



**KAJIAN WAKTU DAN TEMPERATUR REAKSI
OPTIMAL PADA SIFAT FISIKOKIMIA FMRE
(*FUMARIC MODIFIED ROSIN ESTER*)**

Skripsi

**disusun sebagai salah satu syarat penyelesaian Studi Strata Satu
untuk mencapai gelar Sarjana Sains
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Semarang, 11 Februari 2020



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PENGESAHAN

Skripsi berjudul Kajian Waktu Dan Temperatur Reaksi Optimal pada Sifat Fisikokimia FMRE (*Fumaric Modified Rosin Ester*) karya Naila Furhatin 4311415065 ini telah dipertahankan dalam Ujian Skripsi FMIPA Universitas Negeri Semarang pada tanggal sidang dan disahkan oleh Panitia Ujian.

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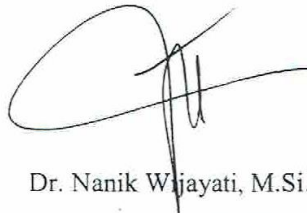
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MOTTO DAN PERSEMBAHAN

Motto

“Never trouble about trouble until trouble troubles you”

Banyak orang yang cenderung mempermasalahkan suatu masalah yang belum terjadi, bukannya menghadapi apa yang ada sekarang, justru meramalkan masa depan yang tidak diketahui pasti. Sikap seperti ini sama sekali tidak menguntungkan diri sendiri (Rosemary Kesaully).

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ABSTRAK

Furhatin, Naila. 2020. Kajian Waktu dan Temperatur Reaksi Optimal pada Sifat Fisikokimia FMRE (*Fumaric Modified Rosin Ester*). Skripsi. Jurusan Kimia Fakultas Matematika dan Ilmu Pengetahuan Alam Universitas Negeri Semarang. Pembimbing utama Dr. Nanik Wijayati, M. Si.

Kata kunci : FMRE, suhu, waktu reaksi, gliserol, asam fumarat, PTSA.

FMRE merupakan produk modifikasi dari gum rosin melalui proses esterifikasi yang bertujuan untuk memperbaiki sifat-sifatnya kearah yang lebih baik dari sifat asalnya. Dalam penelitian ini gum rosin diesterifikasi dengan asam fumarat dan gliserol dengan menggunakan PTSA (*p-toluene sulfonic acid*) sebagai katalis, dilakukan variasi suhu yaitu 140 °C, 160 °C, 180 °C, dan 200 °C serta variasi waktu reaksi 1, 2, 3, dan 4 jam. Hasil analisis GC-MS menunjukkan bahwa hasil esterifikasi FMRE optimum adalah pada suhu 200 °C dengan waktu reaksi 4 jam, total ester yang diperoleh yaitu sebesar 44,03%. Pengujian FT-IR menunjukkan bahwa gugus hidroksil telah berubah menjadi gugus karbonil yang menunjukkan gum rosin telah teresterifikasi. Terdapat serapan gugus karbonil ester pada bilangan gelombang sekitar 1700 cm⁻¹ yang merupakan pita khas regangan C=O ester.

ABSTRACT

Furhatin, Naila. 2020. Optimization of Time and Temperature Reactions and their Physicochemical Properties of FMRE (*Fumaric Modified Rosin Ester*). Department of Chemistry Faculty of Mathematics and Natural Sciences, Universitas Negeri Semarang. Supervisor Dr. Nanik Wijayati, M. Si.

Key words: FMRE, temperature, reaction time, glycerol, fumaric acid, PTSA.

FMRE is a modified product of gum rosin through an esterification process aimed at improving its properties in a better direction than its original nature. In this research gum rosin is esterified with fumaric acid and glycerol by using PTSA (*p-Toluene sulphonic acid*) as a catalyst, performed temperature variations i.e. 140 °C, 160 °C, 180 °C and 200 °C and reaction time variations of 1, 2, 3 and 4 hours. The results of the GC-MS analysis showed that the results of the optimal esterification of FMRE is at a temperature of 200 °C with a reaction time of 4 hours, total ester obtained was equal to 44.03%. The FT-IR test indicates that the hydroxyl group has been transformed into the carbonyl which indicates that gum rosin has been esterified. There is an absorption of the carbonyl ester group at wavenumber 1700 cm^{-1} which is a typical ribbon strain of C = O ester.

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BAB I

PENDAHULUAN

1.1 Latar Belakang

Hutan Indonesia memiliki potensi yang sangat besar, luasnya mencapai 99,6 juta atau 52,3% dari luas wiayah Indonesia. Sumber daya hutan merupakan kekayaan alam yang dapat memberikan manfaat ekonomi, lingkungan, dan sosial bagi kesejahteraan manusia. Hasil hutan bukan kayu dengan jenis dan potensi yang sangat melimpah di hutan dapat memiliki peran yang lebih penting dibandingkan produk-produk kayu (Wiyono *et al.*, 2007). Saat ini pemerintah Indonesia mengurangi produk hasil hutan kayu, dengan demikian pemerintah sedang memaksimalkan produk hasil hutan bukan kayu (HHBK) (Daryono, 2015). Pemanfaatan hasil hutan bukan kayu (HHBK) bertujuan selain untuk meningkatkan kesejahteraan masyarakat juga untuk mengoptimalkan sumber daya hutan itu sendiri. Industri hasil hutan bukan kayu (HHBK) tidak memerlukan teknologi yang canggih, namun mampu menghasilkan produk yang memiliki nilai ekonomi tinggi dan juga ramah lingkungan (Waluyo *et al.*, 2012).

Getah pinus merupakan salah satu hasil hutan bukan kayu (HHBK) yang bernilai komersial dan potensial untuk dikembangkan saat ini. Getah pinus merupakan hasil penyadapan dari pohon yang tergolong dalam marga *Pinus* khususnya jenis *Pinus merkusii*. *Pinus merkusii* merupakan sumber penghasil getah pinus yang digunakan untuk menghasilkan minyak terpentin dan gum rosin. Gum rosin dan terpentin merupakan salah satu produk turunan dari getah pinus yang sudah masuk dalam sistem perdagangan internasional. Perdagangan gum rosin dan terpentin Indonesia di pasar internasional menjadi urutan ketiga setelah China dan Brazil (Lempang,2017). Indonesia sebagai produsen gum rosin ke-3 terbesar di dunia dengan volume produksi mencapai 60.000 ton/tahun, harus dapat memanfaatkan gum rosin sebagai bahan baku menjadi produk yang mempunyai nilai tambah agar nilai jual ekspor dari produk gum rosin menjadi lebih meningkat (Khadafi *et al.*, 2014).

Gum rosin merupakan senyawa kompleks yang berasal dari kayu pinus dan terdiri dari asam-asam resin (Jindal *et al.*, 2017). Gum rosin secara tradisional dibutuhkan oleh industri batik, sabun dan, kertas, namun saat ini pemanfaatan gum rosin lebih banyak digunakan sebagai pelunak plester, campuran *eyeshadow*, penguat bulu mata, perekat dan, warna dalam industri percetakan (tinta) dan cat (Sukarno, 2018). Ada beberapa jenis rosin berdasarkan sumbernya yaitu gum rosin (gondorukem getah), rosin minyak (*tall-oil rosin*), dan rosin kayu (*wood rosin*), ketiga jenis rosin tersebut dikenal sebagai rosin non modifikasi, sedangkan rosin yang sudah mengalami perubahan kimia pada ikatan ganda atau gugus karboksil dari asam resin dalam gum rosin disebut gum rosin modifikasi. Gum rosin non modifikasi mempunyai beberapa kelemahan antara lain terjadi kristalisasi pelarut yang digunakan, terjadi proses oksidasi secara alami, dan dapat menyebabkan reaksi dengan garam-garam logam berat (Kirk dan Othmer, 2007). Menurut Liu *et al.* (2014) aplikasi gum rosin masih terbatas karena kekurangannya, seperti mudah teroksidasi dan degradasi warna di udara.

Oleh karena itu penggunaan gum rosin harus dimodifikasi. Gum rosin dapat dimodifikasi dengan cara memodifikasi ikatan rangkap dan gugus karboksil yang ada pada senyawa asam dalam gum rosin tersebut untuk memperbaiki sifat-sifatnya ke arah yang lebih baik. Susanti *et al.* (2017) menyatakan bahwa penggunaan gum rosin untuk pembuatan vernis harus dilakukan modifikasi karena kualitas gum rosin yang masih rendah. Gum rosin memberikan hasil lapisan yang rapuh atau mudah rusak karena pengaruh lingkungan. Ikatan rangkap dan gugus karboksil dalam gum rosin sangat reaktif yang merupakan kunci kelemahan dari gum rosin. salah satu cara modifikasi terhadap gum rosin adalah dengan proses esterifikasi. Modifikasi gum rosin dilakukan dengan mereaksikan gum rosin dengan bahan-bahan kimia yang sesuai. Sifat-sifat tertentu yang diinginkan dari gum rosin dapat dicapai melalui modifikasi, gum rosin dapat direaksikan dengan maleat anhidrat atau asam fumarat (*fumaric acid*) dengan asam levopimarit dan gliserol yang akan membentuk ester gliserol asam fumarat (Wiyono *et al.*, 2007).

Penelitian ini bertujuan untuk meningkatkan kualitas gum rosin dengan memodifikasi gugus karboksilnya menjadi ester. Namun sebelum reaksi esterifikasi

berlangsung gum rosin terlebih dulu direaksikan dengan asam fumarat untuk membentuk *adduct* yang bertujuan untuk melindungi gugus alkena yang ada dalam asam-asam resin sehingga reaksi akan lebih spesifik pada gugus karboksil dalam gum rosin. Senyawa alkohol yang digunakan dalam reaksi esterifikasi ini adalah gliserol. Fungsi dari gliserol sendiri adalah sebagai sumber gugus ester dan pelarut karena titik didih gliserol yang tinggi yaitu 290 °C. Untuk katalis yang digunakan adalah katalis asam *p*-toluenasulfonat yang bersifat non-oksidator dan merupakan senyawa organik kuat. Seperti pernyataan Wang *et al.* (2016) yang menyatakan bahwa asam *p*-toluenasulfonat, baru-baru ini dilaporkan mengkatalisis esterifikasi gum rosin. Katalis ini dikenal untuk meningkatkan laju reaksi dan berasal dari sumber yang tersedia secara luas dan murah selain itu asam *p*-toluenasulfonat stabil dalam hal oksidasi (Wang *et al.*, 2016).

Pada penelitian ini dilakukan modifikasi gum rosin melalui proses esterifikasi dengan melakukan variasi waktu reaksi yaitu 1, 2, 3, dan 4 jam dan variasi suhu reaksi 140 °C, 160 °C, 180 °C, dan 200 °C bertujuan untuk mengetahui pengaruh lamanya waktu dan suhu reaksi terhadap ester yang dihasilkan serta mengetahui waktu dan suhu reaksi optimal pada proses pembentukan ester.

1.2 Rumusan Masalah

Rumusan masalah dalam penelitian ini adalah:

1. Berapa waktu dan temperatur reaksi optimal pada esterifikasi FMRE?
2. Bagaimana kualitas fisikokimia FMRE yang dihasilkan?

1.3 Tujuan Penelitian

Tujuan dari penelitian ini adalah:

1. Menganalisis waktu dan temperatur reaksi optimal pada esterifikasi FMRE
2. Menganalisis kualitas fisikokimia FMRE yang dihasilkan.

1.4 Manfaat

Manfaat yang ingin dicapai dalam penelitian ini adalah:

- a. Memberikan informasi waktu dan temperatur reaksi optimal pada reaksi esterifikasi FMRE.

- b. Menjadi informasi rujukan dalam pengembangan modifikasi gum rosin dengan asam fumarat melalui proses esterifikasi.
- c. Memberikan nilai tambah pada produk derivat gum rosin dan memperluas penggunaan gum rosin modifikasi.

BAB II

TINJAUAN PUSTAKA DAN KERANGKA TEORITIS

2.1 Tinjauan Pustaka

Penelitian tentang modifikasi gum rosin ini untuk mengetahui peningkatan kualitas gum rosin setelah dilakukan proses modifikasi dan adanya perlakuan variasi suhu dan waktu reaksi untuk mengetahui pengaruh suhu dan waktu reaksi terhadap produk yang dihasilkan. Berdasarkan hasil referensi yang didapatkan, terdapat beberapa penelitian yang berkaitan dengan penelitian ini diantaranya yaitu:

Penelitian yang dilakukan oleh Khadafi *et al.* (2014), yang melakukan pengolahan gum rosin menjadi bahan pendarihan sebagai aditif pada pembuatan kertas. Penelitian ini bertujuan untuk membuat darih rosin emulsi dari gum rosin serbuk sebagai aditif pada pembuatan kertas. Gum rosin kualitas WW dan X dilakukan reaksi saponifikasi menggunakan soda pada suhu dibawah 100 °C. Modifikasi rosin dilakukan dengan reaksi fortifikasi menjadi rosin terfortifikasi dengan penambahan senyawa anhidrat maleat.

Prasetyo *et al.* (2012) dalam penelitiannya menghasilkan produk turunan gliserol atau konversi gliserol melalui proses esterifikasi menjadi *glycerol ester maleic rosin*. Pembuatan *glycerol ester maleic rosin* dilakukan dengan mereaksikan asam maleat dari gum rosin dengan gliserol melalui proses esterifikasi dan fortifikasi. Ester gliserol gum rosin maleat memiliki titik lunak yang tinggi dan bilangan asam yang rendah. Pembuatan produk turunan gliserol ini dimaksudkan agar produk mempunyai nilai ekonomi yang lebih tinggi. Secara umum penggunaan produk adalah pada cat termoplastik untuk jalan, perekat tahan panas, dan formulasi tinta cetak.

Penelitian yang lain dilakukan oleh Purnavita *et al.* (2017), yang melakukan modifikasi gum rosin dengan asam laktat dan gliserol dalam pembuatan vernis poliester. Penelitian ini bertujuan untuk mempelajari pengaruh rasio mol gum rosin dan asam laktat terhadap jumlah poliester dan mempelajari pengaruh jumlah katalis terhadap jumlah poliester yang dihasilkan. Katalis yang digunakan adalah katalis SnCl_2 yang sering digunakan untuk mempercepat reaksi polimerisasi poliester. Rasio gum rosin dan asam laktat yang berbeda memberikan pengaruh terhadap

yield poliester yang dihasilkan. Rasio (%:%) gum rosin dan asam laktat adalah 50:50 mampu menghasilkan *yield* poliester yang cukup tinggi yaitu 72,28%, dibandingkan dengan rasio (%:%) adalah 75:25 dan 25:75. Penambahan asam laktat juga dapat menurunkan nilai bilangan asam.

2.2 Kerangka Teoritis

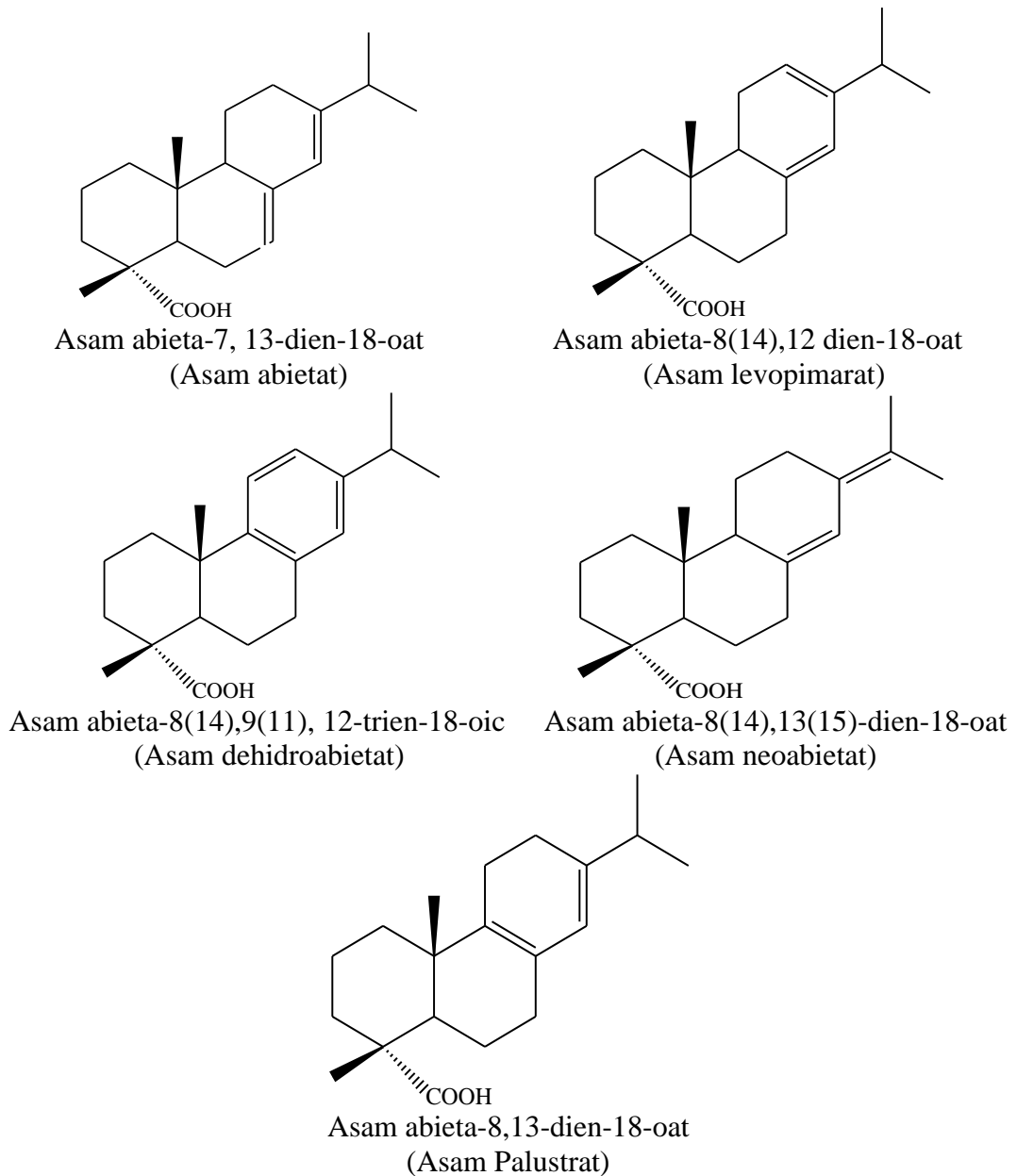
2.2.1 Gum rosin

Gum rosin adalah produk alami yang berasal dari pohon pinus dan terdiri dari campuran kompleks senyawa organik yang saling larut. Menurut Khadafi *et al.* (2014) gum rosin merupakan hasil olahan destilasi uap getah sadapan pohon pinus (*oleoresin*) selain minyak terpenin. Gum rosin berbentuk padatan berwarna kuning kecoklatan, sedangkan minyak terpenin berwujud cairan putih bening. Gum rosin merupakan asam organik *alkyl tricyclic* tak jenuh yang berasal dari derivat alam. Asam abietat dan asam dehidroabietat adalah komponen utama gum rosin, yang banyak digunakan dalam pembuatan solder, kertas, tinta cetak, perekat, dan *plasticizer* (Zhu *et al.*, 2014). Fraksi asam resin dari gum rosin adalah campuran kompleks dari isomer asam monokarboksilat diterpenoid dengan rumus molekul empiris $C_{20}H_{30}O_2$ dan terutama mengandung asam abietat. Oleh karena gum rosin berasal dari sumber alami, penggunaan berbagai spesies dan faktor lingkungan (suhu dan konsentrasi tanah, dan lain-lain) dapat mempengaruhi jumlah asam resinnya (Aguilar *et al.*, 2010).

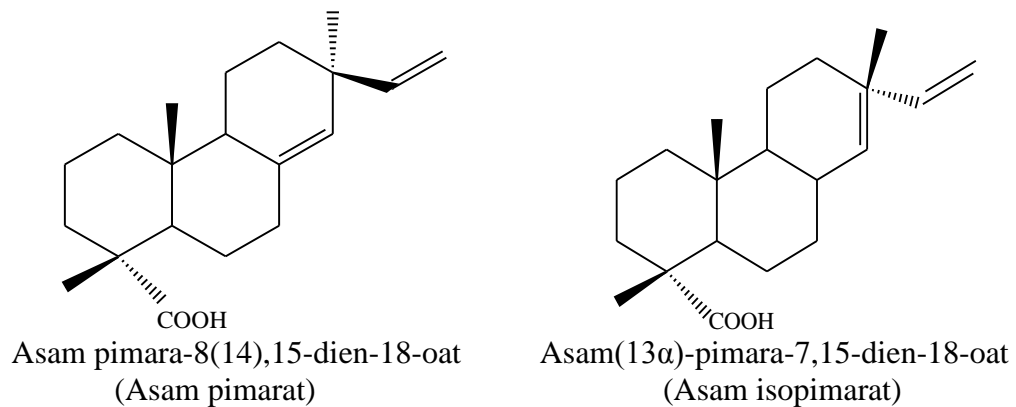
2.2.1.1 Sifat-Sifat Gum rosin

Gum rosin adalah senyawa kompleks yang larut dalam pelarut organik seperti etil alkohol, etil ester, dan benzena, namun tidak larut dalam air. Gum rosin merupakan senyawa kompleks yang terdiri dari 80% - 90% asam-asam resin dan 10% terdiri dari bahan netral. Asam resin adalah campuran kompleks dari beberapa senyawa, terutama jenis abietat dan asam pimarit yang termasuk dalam kelompok senyawa organik yang diterpen (Jindal *et al.*, 2017). Menurut Kaith *et al.* (2016) gum rosin terdiri dari asam resin seperti asam resin tipe abietat yang memiliki ikatan rangkap terkonjugasi dan asam resin tipe pimarit dengan ikatan rangkap non-terkonjugasi. Jenis-jenis asam abietat yaitu asam neoabietat, livopimarit, palustrat,

dan asam dehidroabietat, sedangkan yang termasuk dalam jenis-jenis asam tipe pimarat adalah asam pimarat dan isopimarat (Kirk dan Othmer, 2007).



Gambar 2.1. Struktur kimia tipe asam abietat
(Kirk dan Othmer, 2007)



Gambar 2.2. Struktur kimia tipe asam pimarat
(Kirk dan Othmer, 2007)

2.2.1.2 Klasifikasi gum rosin

Menurut Standar Nasional Indonesia 7636: 2011, persyaratan mutu gum rosin dibedakan mejadi tiga kelompok, yaitu syarat mutu, syarat umum dan syarat khusus. Kualitas gum rosin terbagi menjadi empat macam kelas mutu yaitu mutu utama, pertama, kedua, dan ketiga, sedangkan untuk persyaratan klasifikasi khusus gum rosin terdiri dari penilaian warna, titik lunak (*softening point*), kadar abu, kadar kotoran, dan komponen yang menguap, untuk klasifikasi umum gum rosin meliputi bilangan asam, bilangan penyabunan, dan bilangan iod. Klasifikasi mutu gum rosin dapat disajikan pada Tabel 2.1, klasifikasi khusus kualitas gum rosin dapat dilihat pada Tabel 2.2, sedangkan untuk klasifikasi umum kualitas gum rosin dapat dilihat pada Tabel 2.3.

Tabel 2.1 Klasifikasi mutu gum rosin

No	Klasifikasi Mutu	Tanda Mutu	
		Dokumen	Kemasan
1.	Utama (U)	X	X
2.	Pertama (P)	WW	WW
3.	Kedua (D)	WG	WG
4.	Ketiga (T)	N	N

(SNI, 2011)

Tabel 2.2 Klasifikasi khusus kualitas gum rosin

No	Jenis Uji	Satuan Persyaratan Mutu			
		U	P	D	T
1.	Warna				
	a. Metode Lovibond	X	WW	WG	N
	b. Metode Gardner	≤6	≤7	≤8	≤9
2.	Titik Lunak	°C	≥78	≥76	≥74
3.	Kadar Kotoran	%	≤0,02	≤0,05	≤0,07
4.	Kadar Abu	%	≤0,01	≤0,04	≤0,05
5.	Komponen Menguap	%	≤2	≤2,5	≤3

(SNI, 2011)

Keterangan :

Kualitas

U (Utama) = kualitas utama

P (Pertama) = kualitas pertama

D (kedua) = kualitas kedua

X (Extra) = kuning jernih

WW (Water White) = kuning

WG (Window Glass) = kuning kecoklatan

Tabel 2.3 Klasifikasi umum kualitas gum rosin

No	Jenis Uji	Persyaratan
1.	Bilangan asam	160-190
2.	Bilangan penyabunan	170-220
3.	Bilangan iod	5-25

(SNI, 2011)

Klasifikasi mutu gum rosin juga dapat dilihat dari warnanya yang dihasilkan. Warna gum rosin tergantung dari sumber dan metode pembuatannya, warna bisa dari kuning pucat sampai merah tua dan bahkan hampir hitam kecerahan. Menurut Sukarno (2018), sifat fisik gum rosin dapat mempengaruhi kualitas produk gum rosin yang dihasilkan dan nilai jualnya. Sifat fisik juga terkait dengan pengolahan teknis dan bahan baku. Sifat fisik suatu produk harus memenuhi persyaratan kualitas dari standar kualitas yang ditetapkan.

2.2.1.3 Kegunaan gum rosin

Gum rosin dapat digunakan dalam dua bentuk yaitu *modified rosin* (rosin modifikasi) dan *unmodified rosin* (rosin non modifikasi). Pada awalnya gum rosin hanya digunakan dalam bentuk non modifikasi. Seiring dengan perkembangan riset, gum rosin mulai dilakukan modifikasi dan sekarang penggunaan gum rosin modifikasi lebih disukai dipasaran karena keunggulan yang dimiliki. Potensi penggunaan dari senyawa gum rosin diantaranya banyak dimanfaatkan untuk bahan

industri cat, tinta cetak, pembuatan kertas, dan perekat (Liu *et al.*, 2014). Gum rosin digunakan sebagai bahan perekat yang berfungsi sebagai *tackifier*, pemacu perekatan (*adhesion promoter*) atau pemacu kekentalan (*viscosity promoters*) untuk memperbaiki sifat-sifat produk akhir (Khadafi *et al.*, 2014)

2.2.2 Rosin modifikasi

Saat ini, gum rosin lebih banyak digunakan dalam bentuk gum rosin modifikasi karena sifatnya yang lebih unggul daripada gum rosin biasa. Gugus karboksil dan ikatan rangkap dalam asam dapat menghasilkan banyak jenis garam dan senyawa termodifikasi untuk tujuan yang lebih baik (Jindal *et al.*, 2017). Gum rosin dan turunannya dapat dimodifikasi untuk menyiapkan serangkaian bahan polimer dan aditif. Salah satu modifikasi dari gum rosin adalah asam maleopimaratan anhidrat monomer semisintetik-organik, yang dibuat dengan asam levopimaratan dari gum rosin dengan maleat anhidrat (Zhen *et al.*, 2013). Diketahui bahwa turunan rosin memiliki beberapa keunggulan diantaranya seperti asam N-(dimetilaminometil) imida maleopimaratan, komposisi yang terdiri dari kolofoni yang dimodifikasi, ester pentaeritritol dari campuran rosin dan asam lemak, N-(*hydroxyethyl*) imide dari *terpene maleic adduct* (TMA) yang menunjukkan aktivitas fungisida dan bakterisida (Kluve *et al.*, 2014).

Pada awalnya gum rosin banyak digunakan dalam bentuk non modifikasi, namun sekarang gum rosin lebih banyak digunakan dalam bentuk modifikasi, dikarenakan sifat dari gum rosin modifikasi yang lebih unggul daripada gum rosin non modifikasi, Menurut Liu *et al.* (2019) masalah serius pada gum rosin adalah karena sifatnya yang mudah teroksidasi saat kontak dengan udara. aplikasi gum rosin masih terbatas karena beberapa kekurangan dari gum rosin non modifikasi dalam aplikasinya sering terjadi kristalisasi, terjadi proses oksidasi secara alami terhadap gum rosin dan dapat menyebabkan reaksi dengan garam-garam logam berat terutama pada penggunaan untuk vernis. Penggunaan gum rosin non modifikasi menjadi tidak efisien, sehingga beralih menggunakan gum rosin modifikasi yang dapat digunakan untuk berbagai macam penggunaan seperti dalam bidang farmasi sebagai pelapis film, pembentukan matriks, mikroenkapsulasi, di bidang industri

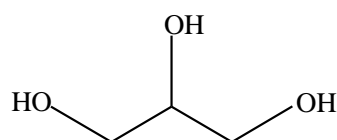
seperti industri perekat, industri kertas, tinta cetak, dan *protective coating* (Raouf *et al.*, 2018).

2.2.3 Agen Modifikasi Gum rosin

Untuk membuat gum rosin modifikasi diperlukan bahan-bahan kimia yang dapat mendukung untuk mencapai target yang diinginkan, diantaranya adalah gliserol dan asam fumarat.

2.2.3.1 Gliserol

Gliserol (1, 2, 3-propanetriol) merupakan cairan kental yang memiliki rasa manis (Prasetyo *et al.*, 2012). Gliserol ($C_3H_8O_3$) merupakan senyawa golongan alkohol polihidrat dengan tiga buah gugus hidroksil dalam satu molekul, bersifat polar dan kental (*viscous*) (Wahyuni *et al.*, 2016). Gliserol tidak berwarna, tidak berbau, rasanya manis, bentuknya liquid, meleleh pada suhu $17,8\text{ }^\circ\text{C}$, mendidih pada suhu $290\text{ }^\circ\text{C}$, dan larut dalam air dan etanol. Sifat gliserol higroskopis, seperti menyerap air dari udara, gliserol terdapat dalam bentuk ester (gliserida) pada semua hewan, lemak nabati, dan minyak. Pengolahan gliserol lebih lanjut dapat meningkatkan nilai ekonominya. Seiring dengan peningkatan produktifitas biodisel produktifitas gliserol juga meningkat. Pada tahun 2010 diperkirakan produksi gliserol sekitar 1,2 juta ton gliserol yang lebih dari separuhnya berasal dari produksi biodisel (Appleby, 2013). Proses esterifikasi gliserol adalah salah satu metode yang banyak digunakan untuk memproduksi produk turunan gliserol. Dalam reaksi esterifikasi dihasilkan bermacam-macam ester yang mempunyai banyak kegunaan dan bernilai lebih tinggi. Produk dari konversi gliserol ini bersifat ramah lingkungan dan terbarukan karena bukan merupakan turunan dari minyak bumi (Prasetyo *et al.*, 2012). Sifat karakteristik gliserol lebih lengkapnya dapat dilihat dalam Tabel 2.4. Adapun rumus molekul gliserol dapat ditunjukkan pada Gambar 2.3.



Gambar 2.3 Rumus Molekul Gliserol (Karlberg dan Hagvall, 2018)

Tabel 2.4 Karakteristik gliserol

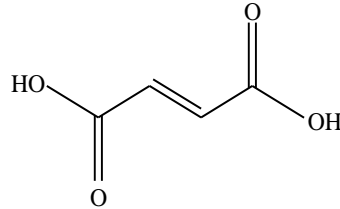
Sifat	Nilai
Tampilan fisik	Cair
Kemurnian	90-95%
Tegangan permukaan	63 Mn/n pada 20 °C
Berat molekul	92, 09382 g/mol
Densitas	1,261 g/mol
Viskositas	1410 mPa s pada 20 °C
Titik leleh	17,8 °C (64, 2 °F)
Titik didih	290 °C pada 1013 hPa

(Radhiyatullah *et al.*, 2015)

2.2.3.2 Asam fumarat

Asam fumarat (FA) atau asam (*E*)-butanedioat adalah senyawa kristal dan merupakan isomer asam dikarboksilat tak jenuh asam maleat. Maleat anhidrida yang bereaksi dengan air akan membentuk asam maleat dengan melalui proses isomerisasi akan menghasilkan asam fumarat (FA). Namun, asam fumarat dapat digunakan secara langsung sebagai reaktan primer yaitu sebagai pengganti anhidrida maleat (Knesebeck *et al.*, 2018). Karena strukturnya (ikatan rangkap karbon-karbon dan dua gugus asam karboksilat), FA memiliki banyak aplikasi potensial dalam industri. FA dapat digunakan sebagai bahan awal untuk reaksi polimerisasi dan esterifikasi. Saat ini, FA diproduksi secara kimiawi dari anhidrida maleat melalui oksidasi dalam atmosfer benzena menggunakan V_2O_5 dan MoO_3 sebagai katalis pada suhu tinggi (Liu *et al.*, 2015). FA merupakan isomer *trans* dari asam butadioat dengan bentuk kristal berwarna putih yang memiliki titik leleh 300 °C, dengan pemanasan sampai 300 °C, FA berubah menjadi anhidrida maleat, kristal FA tidak mudah larut dalam air. Linetrose *et al.* (2015) menyatakan bahwa kedua isomer, asam maleat dan asam fumarat, hanya berbeda dalam posisi gugus karboksil. Isomer *cis*, asam maleat, adalah asam yang lebih kuat dibandingkan dengan mitra *trans*nya, asam fumarat. FA memiliki rasa seperti buah-buahan. Garam dan ester asam fumarat dikenal sebagai fumarat. FA banyak digunakan dalam industri makanan, farmasi dan kimia, dan menarik perhatian yang semakin meningkat karena dapat dikonversi menjadi obat-obatan terapi dan merupakan bahan awal untuk polimerisasi dan esterifikasi. FA terutama diproduksi secara petrokimia dari anhidrida maleat (Xu, G., *et al.*, 2012). Asam fumarat termasuk asam lemah yang dapat membentuk ester, dapat mengalami reaksi adisi pada ikatan

rangkapnya, dan juga merupakan dienofil yang baik (Podgorska *et al.*, 2004). Gambar 2.4 merupakan struktur kimia dari FA.



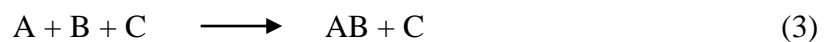
Gambar 2.4 Struktur Asam Fumarat
(Araji *et al.*, 2017)

2.2.4 Katalis

Katalis adalah zat yang mempengaruhi kecepatan reaksi tetapi zat tersebut tidak mengalami perubahan kimia pada akhir reaksi. Katalis tidak berpengaruh dalam energi bebas, juga tidak berpengaruh terhadap tetapan kesetimbangan. Umumnya kenaikan konsentrasi katalis juga menaikkan kecepatan reaksi, jadi katalis ini ikut dalam reaksi tetapi pada akhir reaksi diperoleh kembali (Okvitarini *et al.*, 2013). Berdasarkan fasenya, proses katalis dapat digolongkan menjadi katalis homogen dan heterogen. Katalis homogen ialah katalis yang mempunyai fase sama dengan fase campuran reaksinya, sedangkan katalis heterogen adalah katalis yang berbeda fase dengan campuran reaksinya. Menurut Praputri *et al.* (2018). Jenis katalis homogen yang banyak digunakan adalah katalis asam (HCl, H₂SO₄ dan HNO₃), sedangkan contoh katalis heterogen seperti zeolit, Pd, Ru, Rh, Pt, dan lain-lain. Reaksi katalitik mengikuti persamaan reaksi 1-3.

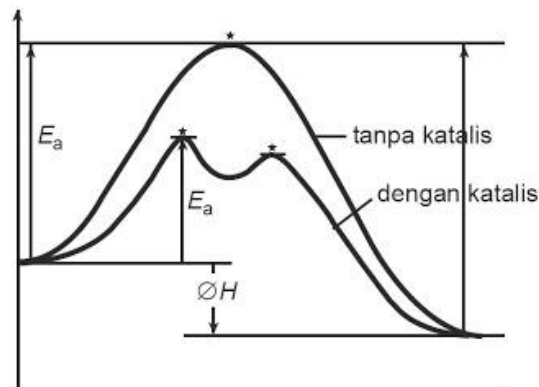


Meskipun katalis (C) ikut bereaksi, namun oleh reaksi 2 terbentuk kembali, sehingga untuk reaksi keseluruhannya menjadi seperti reaksi 3:



(Praputri *et al.*, 2018)

Fungsi katalis dalam reaksi adalah menurunkan energi aktivasi sehingga jumlah molekul yang dapat melampaui energi aktivasi menjadi lebih besar (Gambar 2.5). Gambar tersebut menunjukkan peranan katalis dalam menentukan energi aktivasi.



Gambar 2.5 Energi potensial reaksi tanpa katalis dan dengan bantuan katalis (Silberberg, 2008)

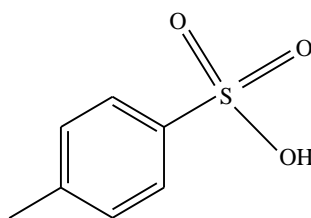
Pada Gambar 2.5 proses reaksi tanpa katalis digambarkan dengan satu kurva yang tinggi sedangkan dengan katalis menjadi dua kurva dengan dua puncak yang rendah sehingga energi aktivasi pada reaksi dengan katalis lebih rendah daripada energi aktivasi pada reaksi tanpa katalis. Berarti secara keseluruhan katalis dapat menurunkan energi kativasi dengan cara mengubah jalannya reaksi atau mekanisme reaksi lebih cepat (Purnami *et al.*, 2015).

2.2.4.1 Katalis asam homogen

Katalis homogen terdiri atas dua jenis yaitu katalis asam dan basa. Katalis homogen mempunyai keunggulan, yaitu tidak mudah teracuni oleh kotoran dan setiap molekul katalis berfungsi aktif sebagai katalis. Kerugian katalis homogen diantaranya sulit dipisahkan dari campurannya dan mudah terurai pada temperatur tinggi. Dibanding katalis homogen, katalis heterogen memiliki kelebihan diantaranya dapat dipisahkan dari campuran reaksi hanya dengan cara penyaringan, sehingga mudah diregenerasi. Katalis heterogen juga mempunyai kekurangan yaitu jika permukaan katalis telah jenuh oleh molekul reaktan, maka reaksi tidak dapat dilanjutkan. Kejenuhan katalis dapat diatasi dengan melakukan regenerasi (Purnami *et al.*, 2015).

2.2.4.2 *Para-Toluene Sulphonic Acid* (asam *p*-toluenasulfonat)

Asam *p*-toluenasulfonat (PTSA), atau disingkat TsOH, merupakan senyawa organik yang memiliki rumus $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_3\text{H}$, berupa padatan berwarna putih yang larut dalam air, alkohol, dan pelarut organik polar lainnya. PTSA juga sering disebut sebagai $\text{TsOH}\cdot\text{H}_2\text{O}$. Asam *p*-toluenasulfonat merupakan senyawa organik kuat, satu juta lebih kuat dari asam benzoat. Asam *p*-toluenasulfonat merupakan salah satu asam kuat yang berupa zat padat, sehingga mudah ditimbang. Selain itu, berbeda dengan asam mineral kuat lainnya (terutama asam nitrat, asam sulfat, dan asam perklorat), Asam *p*-toluenasulfonat bersifat non-oksidator (Alva, *et al.*, 2016).



Gambar 2.6 Struktur Asam *p*-toluenasulfonat
(Alva, *et al.*, 2016)

Pada skala industri, TsOH dihasilkan dari sulfonasi toluena. Asam *p*-toluenasulfonat berhidrasi dengan cepat. Umumnya terdapat pula sebagian kecil asam benzenasulfonat dan asam sulfat yang dihasilkan. Ketidak murnian ini dapat dipisahkan dengan rekristalisasi dari asam klorida, selanjutnya diikuti dengan pengeringan azeotropik TsOH bermanfaat dalam sintesis organik sebagai katalis asam yang larut dalam pelarut organik. Contoh penggunaannya adalah asetilasi aldehida, esterifikasi asam karboksilat, dan *trans*-esterifikasi ester. Asam *p*-toluenasulfonat dapat diubah menjadi *p*-toluenasulfoat anhidrida dengan memanaskannya dengan fosfor pentoksida. Asam *p*-toluenasulfonat, baru-baru ini dilaporkan mengkatalisis esterifikasi gum rosin. Katalis ini dikenal untuk meningkatkan laju reaksi dan berasal dari sumber yang tersedia secara luas dan murah selain itu asam *p*-toluenasulfonat stabil dalam hal oksidasi (Wang *et al.*, 2016).

2.2.5 Proses Modifikasi

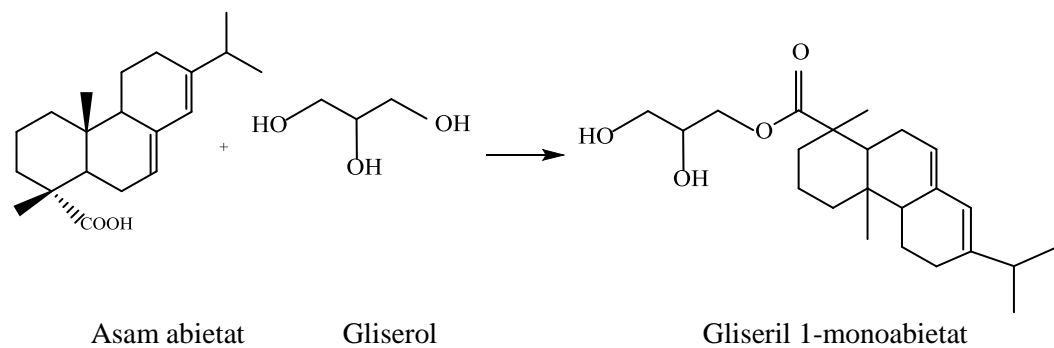
Modifikasi gum rosin dapat dilakukan dengan banyak cara, gugus karboksil dan ikatan rangkap terkonjugasi dalam molekul rosin dengan aktivitas tinggi dapat mudah untuk dilakukan isomerisasi, beberapa cara untuk memodifikasi rosin diantaranya yaitu hidrogenasi, polimerisasi, disproporsionasi, aminolisis, esterifikasi, pembentukan garam, dan reaksi dekarboksilasi (Zhen *et al.*, 2013).

2.2.5.1 Proses Esterifikasi

Reaksi esterifikasi adalah reaksi antara asam karboksilat dengan senyawa alkohol yang membentuk ester. Ester asam karboksilat ialah suatu senyawa yang mengandung gugus $-CO_2 R'$ dan R dapat berupa alkil maupun aril. Esterifikasi adalah reaksi bolak-balik sehingga konversi dibatasi oleh konversi kesetimbangannya (Fakhry dan Rahayu, 2016). Proses esterifikasi gliserol adalah salah satu metode yang banyak digunakan untuk memproduksi produk turunan gliserol. Dalam reaksi esterifikasi dihasilkan bermacam-macam ester yang mempunyai banyak kegunaan dan bernilai lebih tinggi. Produk dari konversi gliserol ini bersifat ramah lingkungan dan terbarukan karena bukan merupakan turunan dari minyak bumi (Prasetyo *et al.*, 2012).

Menurut Agiular *et al.* (2010), gum rosin yang disuling dipompa ke dalam reaktor, dan diesterifikasi dengan *food grade* gliserol di bawah atmosfer nitrogen. Reaksi gum rosin dan gliserol dilakukan pada suhu 260 - 280 °C dan dibiarkan berjalan sampai spesifikasi produk yang diinginkan terpenuhi. Spesifikasi ini meliputi jumlah asam, warna, dan titik lunak (Ring & Ball Test). Gum rosin ester ini kemudian dimurnikan dengan uap arus balik langsung (260 °C, 2 jam) dan dianalisis untuk jumlah asam, warna, dan titik pelunakan, dan kemudian dihilangkan aromanya. Setelah pendinginan, ester gum rosin mengalami filtrasi melalui filter 10-mikrometer. Produk yang difilter dianalisis untuk angka asam, warna, titik pelunakan, aroma, dan rasa. Reaksi esterifikasi dapat dilakukan dengan atau tanpa menggunakan katalis dalam reaksi. Reaksi esterifikasi akan berjalan lambat jika dilakukan tanpa katalis, oleh karena itu banyak penelitian dilakukan untuk mempelajari kinetika reaksi, baik dengan katalis homogen maupun heterogen (Fakhry dan Rahayu, 2016). Menurut Wang *et al.* (2017) karena

kerangka tiga cincin fenantrena pada molekul gum rosin, yang menghasilkan hambatan spasial dari gugus karboksil, katalis dan suhu tinggi diperlukan selama esterifikasi gum rosin. Reaksi esterifikasi umumnya dilakukan pada bahan yang mengandung asam lemak bebas atau resin (senyawa karboksilat). Ester asam karboksilat ialah suatu senyawa yang mengandung gugus $-\text{CO}_2 \text{R}'$ dan R dapat berupa alkil maupun aril (Prasetyo *et al.*, 2012). Gambar 2.7 menunjukkan mekanisme reaksi esterifikasi asam karboksilat dengan alkohol.



Gambar 2.7 Reaksi esterifikasi asam karboksilat dan alkohol (Karlberg dan Hagvall, 2018)

BAB III

METODOLOGI PENELITIAN

3.1 Tempat dan Waktu Penelitian

Penelitian ini dilakukan di Laboratorium Kimia Fakultas Matematika dan Ilmu Pengetahuan Alam Universitas Negeri Semarang dan Laboratorium Perhutani Pine Chemical Industry Pemalang. Waktu pelaksanaan dilaksanakan selama 4 bulan dari bulan Maret sampai bulan Juni 2019.

3.2 Variabel Penelitian

3.2.1 Variabel Bebas

Variabel bebas dalam penelitian ini adalah jenis katalis yang digunakan yaitu katalis asam *p*-toluenasulfonat (PTSA), pengujian sampel yang dilakukan yaitu pada jam pertama, kedua, ketiga dan keempat, suhu reaksi yang digunakan pada reaksi esterifikasi gum rosin fumarat dengan gliserol yaitu 140 °C, 160 °C, 180 °C, dan 200 °C.

3.2.2 Variabel Terikat

Variabel terikat pada penelitian ini adalah produk dari penelitian ini yaitu *Fumaric Modified Rosin Ester* (FMRE) dari hasil reaksi esterifikasi antara gum rosin fumarat dan gliserol menggunakan katalis asam *p*-toluenasulfonat.

3.2.3 Variabel Terkendali

Variabel terkontrol pada penelitian ini adalah perolehan dan perlakuan awal dari bahan baku gum rosin, berat katalis PTSA, dan berat gliserol.

3.3 Alat dan Bahan

3.3.1 Alat

Alat yang digunakan dalam penelitian ini adalah labu leher tiga, seperangkat alat refluks, *hotplate*, oven, corong, pipet volume 25 mL, pipet volume 20 mL, buret 50 mL, erlenmeyer, mortar dan alu, *softening point ring and ball apparatus*, termometer raksa, gelas ukur 250 mL, pengaduk kaca, pompa air, beaker glass 250 mL, stirer, klem dan statif, timbangan analitik, corong, pipet tetes, kondensor, wadah pencetak gum rosin, FTIR *Shimadzu Instrument Spectrum One 8400S*, dan GC-MS *Agilent 7890 MS 5975C FL MSD*.

3.3.2 Bahan

Bahan baku yang digunakan dalam penelitian ini adalah gum rosin kualitas WW, bahan kimia yang digunakan untuk pembuatan ester gliserol gum rosin fumarat dan pengujian sifat fisik dan kimia produk antara lain asam fumarat (*fumaric acid*) Merck, katalis PTSA (asam *p*-toluenasulfonat) Merck, gliserol, etanol teknis, larutan standar kalium hidroksida (KOH) 0,5 N, indikator *phenophthalein* 1% dalam alkohol 95%, toluena, etanol netral, natrium tiosulfat Merck, KI 10 %, amilum, larutan kloroform Merck, larutan Wijs Merck dan aquades.

3.4 Prosedur Kerja

Proses pembuatan FMRE ada tiga metode yang dapat digunakan secara umum antara lain metode pertama yaitu gum rosin, gliserol dan asam fumarat direaksikan bersama, metode kedua yaitu gum rosin direaksikan pertama dengan asam fumarat untuk memproduksi *adduct* kemudian diesterifikasikan dengan gliserol dan metode ketiga yaitu mereaksikan asam fumarat dengan gliserol kemudian diikuti oleh penambahan gum rosin (Prasetyo *et al.*, 2012). Pada penelitian ini metode yang dipakai adalah metode kedua yaitu pertama gum rosin direaksikan terlebih dahulu dengan asam fumarat, setelah itu diesterifikasikan dengan gliserol untuk memperoleh produk FMRE yang diinginkan.

3.4.1 Karakterisasi Bahan Baku

Bahan baku pada pembuatan FMRE (*Fumaric Modified Rosin Ester*) yaitu gum rosin dilakukan pengujian sifat fisikokimia dan pengujian menggunakan instrumen GC-MS untuk mengetahui kandungan asam resinnya.

3.4.2 Sintesis FMRE (*Fumaric Modified Rosin Ester*)

Pada proses ini, dalam 100 mL labu alas bulat berleher tiga yang dilengkapi dengan pengaduk magnet, 150 gram gum rosin yang sudah dihaluskan dan asam fumarat dipanaskan sampai suhu 100 °C untuk melelehkan gum rosin, kemudian ditambahkan dengan katalis asam *p*-toluenasulfonat sebanyak 0,3% dan ditambahkan gliserol 10%, campuran diaduk dengan magnetik stirer sampai homogen, dilakukan proses pemanasan dengan menggunakan variasi suhu yaitu pada suhu 140 °C, 160 °C, 180 °C, dan 200 °C. Pengujian sampel dilakukan setiap

satu jam (Tabel 3.1). Proses pemanasan dilakukan selama 4 jam, dilakukan pengambilan sampel pada jam ke pertama, kedua, ketiga dan keempat, setelah itu produk dituang kedalam cetakan yang sudah disiapkan.

Tabel 3.1 Proses Esterifikasi gum rosin fumarat dan gliserol dengan variasi suhu reaksi dan persentase penambahan katalis.

Gum rosin : Asam Fumarat	Gliserol (%)	PTSA (%)	Temperatur (°C)	Waktu (Jam)
1 : 2	10	0,3	140	1
1 : 2	10	0,3	140	2
1 : 2	10	0,3	140	3
1 : 2	10	0,3	140	4
1 : 2	10	0,3	160	1
1 : 2	10	0,3	160	2
1 : 2	10	0,3	160	3
1 : 2	10	0,3	160	4
1 : 2	10	0,3	180	1
1 : 2	10	0,3	180	2
1 : 2	10	0,3	180	3
1 : 2	10	0,3	180	4
1 : 2	10	0,3	200	1
1 : 2	10	0,3	200	2
1 : 2	10	0,3	200	3
1 : 2	10	0,3	200	4

3.5 Pengujian Kualitas

Dilakukan pengujian produk akhir dari FMRE yaitu meliputi *yield*, pengujian sifat fisik dan kimia gum rosin. Pengujian sifat fisik dan kimia gum rosin yang dilakukan meliputi pengujian warna dengan *Coloumeter Lico 620*, pengujian titik lunak, bilangan asam, dan bilangan iod berdasarkan SNI 7636 : 2011.

3.5.1 Yield FMRE

Pengujian rendemen produk FMRE yang dihasilkan dari penelitian ini dapat dihitung dengan rumus sebagai berikut:

$$Yield = \frac{\text{Hasil Sintesis}}{\text{Hasil Teoritis}} \times 100\%$$

3.5.2 Pengujian Sifat Fisik

a. Warna

Pengujian warna dilakukan dengan metode Gardner. Sampel diuji sesuai *Instruction Manual Gardner Liquid Color Standard*. Cara kerjanya yaitu dengan melarutkan produk rosin pada etanol dengan perbandingan 1:1, kemudian dilakukan pengecekan dengan alat *Coloumeter Lico 620*.

b. Titik Lunak (*Softening Point*)

Pengujian titik lunak (*Softening Point*) dilakukan berdasarkan SNI 7636 : 2011 menggunakan *softening point ring and ball apparatus*. Sampel uji yang telah dibuat serbuk halus dicairkan pada suhu rendah, kemudian dimasukkan ke dalam ring, selanjutnya permukaan ring yang telah diisi sampel uji diratakan dan dibiarkan beberapa waktu hingga mengeras. Letakkan ring yang berisi sampel uji pada ring holder dan letakkan bola baja di atas sampel uji tersebut. Setelah itu *beaker glass* 1000 mL diisi air sampai volume 800 mL, masukkan termometer ke dalam *beaker glass* saat suhu *beaker glass* sudah mencapai 40 °C masukkan ring beserta bola baja ke dalam *beaker glass*. Pemanasan dilakukan sampai gum rosin tersebut melunak dan bola baja menyentuh plat dasar. Titik lunak adalah suhu rata-rata dari hasil pembacaan pada waktu bola baja turun menyentuh plat dasar.

2.5.3 Pengujian Sifat Kimia

a. Bilangan Asam

Pengujian bilangan asam dilakukan berdasarkan SNI 7636 : 2011 dilakukan dengan cara menimbang sampel uji rosin yang telah dibuat serbuk halus sebanyak 4 gram dalam erlenmeyer 250 mL yang sudah diketahui beratnya, kemudian ditambahkan etanol netral sebanyak 100 mL dan ditambah indikator *phenophthalein* sebanyak tiga tetes. Titik akhir titrasi dicapai apabila terjadi perubahan warna menjadi merah muda. Bilangan asam dihitung dengan menggunakan rumus sebagai berikut:

$$\frac{V \text{ KOH} \times N \text{ KOH} \times 56,1}{W}$$

Keterangan : V : volume larutan kalium hidroksida yang digunakan (mL)

N : adalah normalitas kalium hidroksida (0.1 N)

W : berat contoh uji (g)

56,1 : berat molekul KOH

b. Bilangan Iod

Pengujian bilangan iod dilakukan dengan menimbang sampel gum rosin yang telah dibuat serbuk halus sebanyak 1 gram kemudian ditambah dengan 20 mL larutan kloroform dan 25 mL larutan Wijs dengan menggunakan pipet ukur 25 mL, simpan larutan ditempat yang gelap selama \pm 30 menit. Setelah \pm 30 menit, ditambahkan larutan KI 10% kemudian diencerkan dengan 100 mL aquades. Titrasi larutan sampel dengan larutan standard natrium thiosulfat 0,1 N sampai 10 mL, kemudian tambahkan 1-2 mL indikator amilum. Lanjutkan titrasi sampai warna biru hilang. Bilangan iod dapat dihitung dengan rumus:

$$IV = \frac{(V_2 - V_1) \times 12,69}{W}$$

Keterangan : V_1 : volume titrasi contoh uji, dinyatakan dalam milimeter.

V_2 : avolume titrasi blanko, dinyatakan dalam milimeter.

N : normalitas $\text{Na}_2\text{S}_2\text{O}_3$.

W : berat contoh uji, dinyatakan dalam gram.

12,69 : bobot setara bilangan iod.

c. Kelarutan dalam toluena

Pengujian kelarutan dalam toluena (1:1) dilakukan dengan cara menimbang 1 gram contoh uji yang telah dibuat serbuk halus dan memasukkan ke dalam gelas piala 50 mL yang sudah diketahui beratnya. Tambahkan toluena sebanyak 1 mL sampai larut.

3.6 Karakterisasi Data

Metode analisis data yang digunakan dalam penelitian ini adalah analisis hasil produk FMRE menggunakan instrumen FTIR dan GC-MS. Instrumen FTIR digunakan untuk mengetahui gugus fungsi suatu senyawa organik, sedangkan GC-MS digunakan untuk menganalisis komposisi asam-asam resin dan ester yang terkandung di dalam sampel FMRE.

BAB IV

HASIL DAN PEMBAHASAN

4.1 Karakterisasi Bahan Baku

Gum rosin merupakan senyawa kompleks yang berasal dari kayu pinus dan terdiri dari asam-asam resin (Jindal *et al.*, 2017). Sifat fisiko kimia bahan baku gum rosin yang digunakan akan mempengaruhi proses esterifikasi yang dilakukan. Sifat fisiko kimia bahan baku gum rosin awal dapat dilihat pada Tabel 4.1

Tabel 4.1 Sifat fisikokimia gum rosin

Jenis Uji	Hasil analisis
Warna	6,6
Titik Lunak	78
Bilangan Asam (mg KOH/g)	189,361
Bilangan Iod (mg iod/g)	24,47
Kelrutan dalam toluen	Larut

Sesuai dengan SNI 7636:2011 dapat diketahui bahwa hasil analisis bahan baku yang digunakan memiliki mutu warna yang sudah memenuhi standar gum rosin dengan grade 6,6 sesuai dengan rentang standar gum rosin kualitas WW. Titik lunak bahan baku berada pada suhu 78 °C yang mana sudah sesuai dengan rentang standar gum rosin yaitu sebesar ≥ 78 °C. Titik lunak menunjukkan salah satu sifat khas gum rosin dan tingkat kemasakannya. Tingkat kemasakan ini berhubungan dengan kadar terpentin sisa dalam gum rosin, dimana semakin kecil kadar terpentin sisa maka semakin tinggi titik lunak gum rosin. Menurut Khadafi *et al.* (2014) bilangan asam adalah banyaknya kalium hidroksida (KOH) dalam miligram yang diperlukan untuk menetralkan satu gram asam resin yang terkandung dalam senyawa gum rosin. Bilangan asam ditentukan untuk mengetahui jumlah asam lemak bebas yang terkandung dalam gum rosin dan dipergunakan untuk mengetahui tingkat kerusakan bahan yang disebabkan adanya proses hidrolisis. Bilangan asam gum rosin dari hasil analisis sebesar 189,36 mg KOH/g yang sudah memenuhi standar gum rosin yaitu 160-190 mg KOH/g. Bilangan iod menunjukkan jumlah ketidakjenuhan asam lemak bebas dalam bentuk ikatan rangkap yang bereaksi dengan senyawa iod, sehingga semakin banyak ikatan C=C dalam gum rosin maka bilangan iodnya akan semakin tinggi pula. Nilai bilangan iod yang didapatkan yaitu sebesar 24,47 mg

iod/g yang mana sudah sesuai dengan standar bilangan iod gum rosin yaitu 5-25. Sedangkan untuk hasil analisis kelarutan dalam toluena (1:1) menunjukkan gum rosin dapat larut sempurna dalam toluena. Hasil yang didapat menunjukkan bahwa secara keseluruhan bahan baku gum rosin yang digunakan sudah sesuai dengan SNI 7636:2011.

4.2 Sifat Fisikokimia FMRE

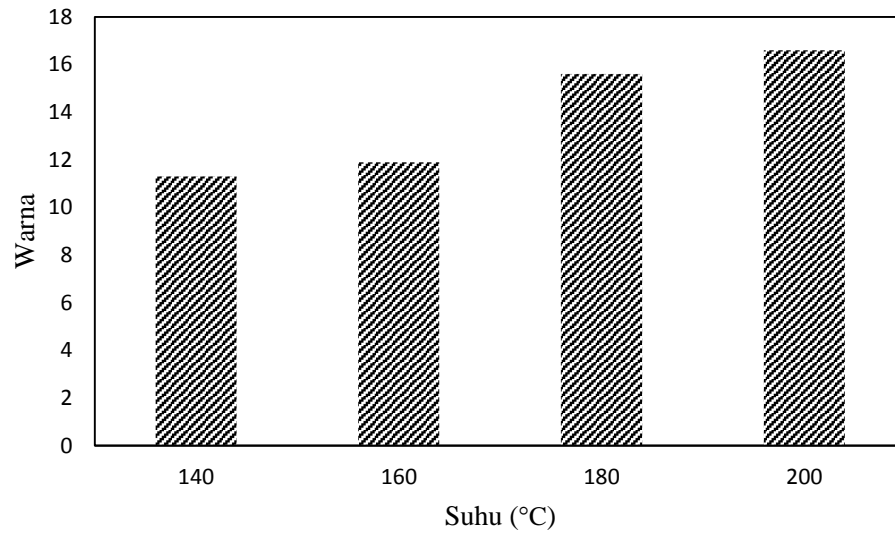
Hasil analisis sifat fisikokimia FMRE dapat disajikan pada Tabel 4.2

Tabel 4.2. Hasil analisis fisiko kimia FMRE

Suhu (°C)	Karakterisasi				
	Kelarutan dalam toluena (1:1)	Warna	Titik lunak (°C)	Bilangan asam (mg KOH/g)	Bilangan Iod (mg iod/g)
140	Larut	11,3	81	183,05	28,31
160	Larut	11,9	81	176,75	28,88
180	Larut	15,6	81	176,04	30,67
200	Larut	16,6	83	175,30	31,84

4.2.1 Warna

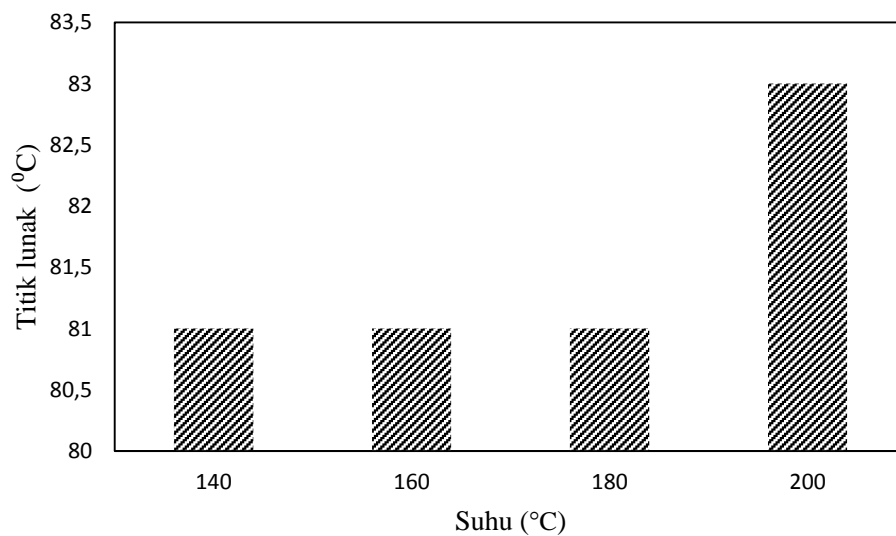
FMRE yang dihasilkan dari penelitian ini memiliki warna yang cukup gelap dari kuning kecoklatan hingga hitam kemerahan. Variasi warna ester gliserol tersebut sangat dipengaruhi oleh bahan baku awal dan metode pengolahannya (Kirk dan Othmer, 2007). Kualitas warna yang dihasilkan dari hasil esterifikasi ini lebih rendah dibandingkan dengan bahan baku awal hal ini dikarenakan gum rosin telah mengalami pemanasan berulang kali dengan waktu yang lama. Dari hasil analisis juga menunjukkan bahwa suhu reaksi sangat mempengaruhi warna dari ester yang terbentuk, terbukti dari data hasil analisis pada Tabel 4.2 yang menunjukkan semakin tinggi suhu reaksi yang digunakan maka warna yang dihasilkan akan semakin tinggi juga yang menunjukkan kualitas warna ester tersebut semakin rendah. Hasil analisis warna terbaik secara keseluruhan ditunjukkan pada suhu 140 °C. Gambar 4.1 dibawah disajikan hasil analisis warna dari ester, yang menunjukkan suhu sangat mempengaruhi kualitas warna dari ester yang terbentuk.



Gambar 4.1. Analisis warna FMRE

4.2.2 Titik Lunak

Titik lunak adalah suhu saat gum rosin mulai melunak, diukur dengan cincin dan bola (*softening ring and ball apparatus*) yang dinyatakan dalam derajat Celcius (°C) (SNI 7636:2011). Titik lunak FMRE yang dihasilkan berkisar antara 81-83 °C. Nilai titik lunak secara lengkap dapat dilihat pada Gambar 4.2.



Gambar 4.2 Analisis titik lunak FMRE

Nilai titik lunak FMRE yang dihasilkan lebih tinggi dibandingkan dengan gum rosin awal yaitu 78 °C. Nilai titik lunak pada Gambar 4.2 cenderung konstan.

Kenaikan terjadi pada suhu 200 °C. Besarnya nilai titik lunak ini terjadi karena suhu reaksi yang tinggi dalam waktu yang lama, sehingga tingkat kemasakan yang terjadi tinggi, menunjukkan semakin sedikit kadar terpenin yang tersisa. Penambahan gliserol pada proses esterifikasi ini bereaksi dengan gum rosin, selain itu diduga kadar terpenin yang tersisa sedikit, sehingga nilai titik lunak FMRE yang dihasilkan lebih tinggi dari gum rosin awal. Titik lunak menunjukkan sifat khas gum rosin dan tingkat kemasakannya. Wiyono *et al.* (2007) menyatakan bahwa tingkat kemasakan berhubungan erat dengan kadar terpenin yang tersisa dalam gum rosin. Semakin kecil kadar terpenin sisa, semakin tinggi nilai titik lunaknya.

4.2.3 Kelarutan dalam Toluena (1:1)

FMRE yang dihasilkan larut dalam toluena dengan perbandingan 1:1. Hal ini karena toluena adalah hidrokarbon aromatik yang banyak digunakan dalam industri sebagai pelarut. Toluena adalah salah satu jenis pelarut yang bersifat non polar sehingga dapat melarutkan zat yang terdapat dalam rosin ester (Khadafi, *et al.*, 2014). Kelarutan adalah kemampuan suatu zat terlarut untuk larut dalam suatu pelarut. Suatu senyawa dapat larut bergantung pada sifat fisik dan kimia zat terlarut dan pelarut, selain itu suhu, tekanan dan kepolaran juga akan mempengaruhi kelarutan. Kirk dan Othmer (2007) menyatakan bahwa gum rosin dapat larut pada hampir semua pelarut organik seperti etil alkohol, etil eter, benzena, dan larut dalam pelarut non polar seperti toluena. Senyawa yang bersifat non polar akan larut dalam pelarut non polar sedangkan senyawa semi polar akan larut dalam pelarut semi polar, serta senyawa yang bersifat polar akan larut kedalam pelarut polar (Sayuti, 2017). Komponen yang terkandung dalam bahan akan dapat larut pada pelarut yang relatif sama kepolarannya. Kriteria kepolaran suatu pelarut dapat ditinjau dari konstanta dielektrik dan momen dipol. Pelarut polar memiliki konstanta dielektrik yang besar, sedangkan non-polar memiliki konstanta dielektrik yang kecil. Semakin besar nilai konstanta dielektriknya, maka semakin polar senyawa tersebut. Tingkat polaritas pelarut dapat dilihat pada Tabel 4.3

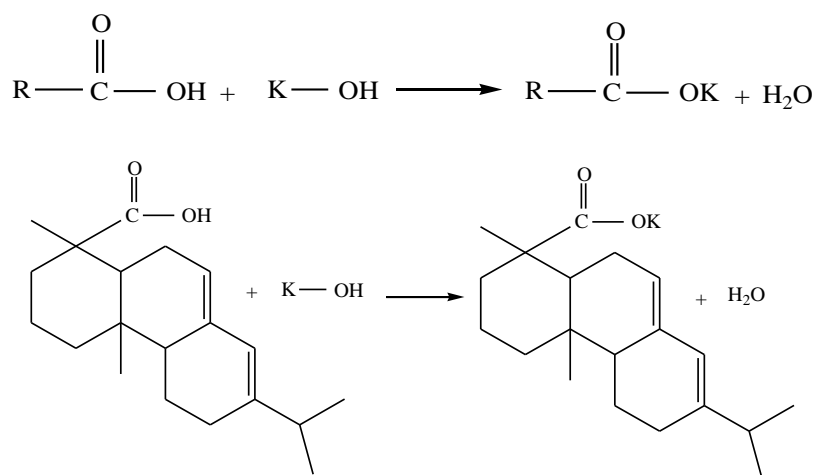
Tabel 4.3 Tingkat polaritas pelarut organik

Pelarut	Polaritas	Konstanta dielektrik
Air	Polar	80,1
Etilen glikol	Polar	37,7
Gliserol	Polar	42,5
Etanol	Polar	25
Methanol	Polar	33,6
Dimetil Sulfoksida	Semi polar	48,9
Dimetil Formamida	Semi polar	38,3
Aseton	Semi polar	20,7
Metil Klorida	Non polar	9,14
Benzena	Non polar	2,27
Toluena	Non polar	2,39
Heksan	Non polar	1,89

(Haidekker *et al.*, 2005)

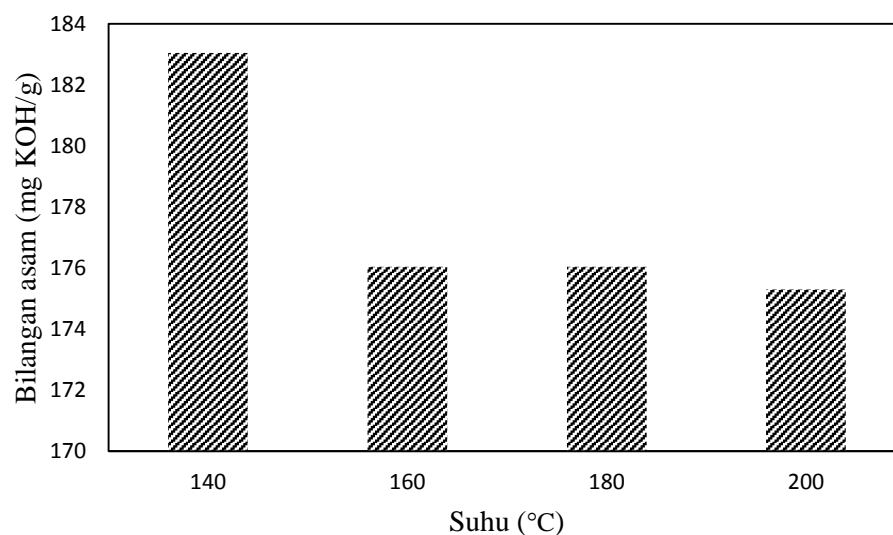
4.2.3 Bilangan Asam

Bilangan asam didefinisikan sebagai banyaknya KOH dalam mg yang diperlukan untuk menetralkan satu gram asam resin yang terkandung dalam senyawa gum rosin (SNI 7636:2011). Reaksi pada bilangan asam disajikan pada Gambar 4.3

**Gambar 4.3** Reaksi pada analisis biangan asam

Analisis bilangan asam dilakukan untuk mengetahui sisa asam lemak bebas yang terkandung di dalam produk. Sisa asam lemak tersebut memiliki hubungan dengan kandungan gliserol ester yang terbentuk (Wahyuni *et al.*, 2016). Bilangan asam FMRE yang dihasilkan berkisar antara 175-183 °C. Mg KOH/g. Secara umum hasil analisis bilangan asam FMRE pada Gambar 4.4 mengalami penurunan dari

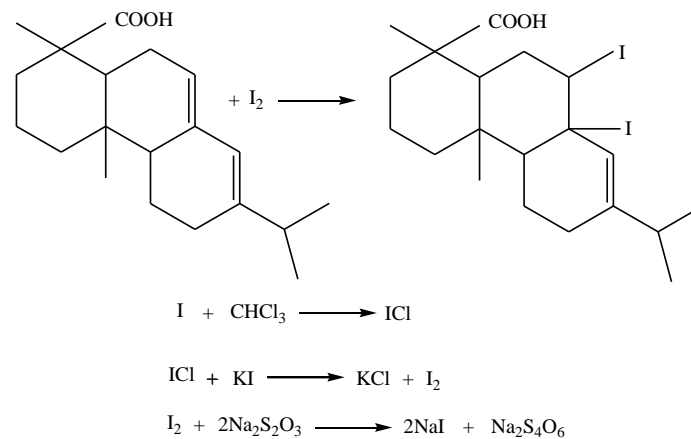
bilangan asam gum rosin awal, selain itu FMRE juga cenderung mengalami penurunan seiring dengan kenaikan suhu reaksi. Penurunan bilangan asam pada proses esterifikasi diduga karena gugus karboksil asam resin pada FMRE bereaksi dengan gliserol membentuk ikatan ester. Semakin lama proses esterifikasi maka semakin banyak asam lemak yang terkonversi. Atom $-H$ sebagai pembawa sifat asam dari gugus karboksil asam resin berikatan dengan $-OH$ dari gliserol. Hal ini menyebabkan jumlah atom $-H$ dalam asam resin berkurang yang berdampak pada penurunan bilangan asam FMRE yang dihasilkan. Selain itu semakin lama reaksi menyebabkan tumbukan antar molekul reaktan semakin sering terjadi sehingga konversi produk menjadi semakin besar (Wahyuni *et al.*, 2016). Hasil analisis terhadap bilangan asam FMRE disajikan pada Gambar 4.4.



Gambar 4.4 Bilangan asam FMRE

4.2.5 Bilangan Iod

Bilangan iod menunjukkan derajat ketidakjenuhan minyak dan lemak yang mengekspresikan jumlah yodium yang dapat diadsorpsi (Hasibuan dan Saihaan, 2013). Semakin besar bilangan iod maka derajat ketidakjenuhan semakin tinggi. Asam lemak yang tidak jenuh mampu menyerap sejumlah iod dan membentuk senyawa yang jenuh. Besarnya jumlah iod yang diserap menunjukkan banyaknya ikatan rangkap atau ikatan tidak jenuh. Gambar 4.5 merupakan reaksi pada pengujian bilangan iod

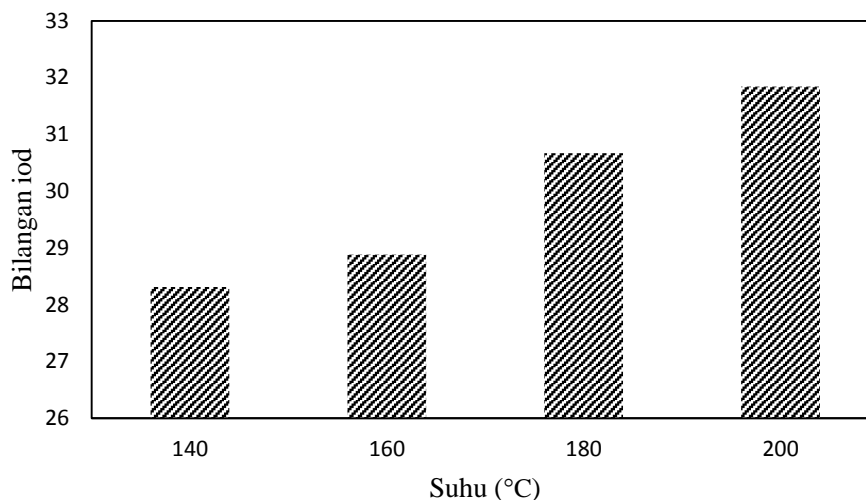


Gambar 4.5 Reaksi pada pengujian bilangan iod

Pengujian bilangan iod bertujuan untuk mengetahui banyaknya ikatan rangkap yang terkandung dalam gum rosin ester. Iodium bereaksi dengan ikatan rangkap dalam sampel gum rosin. Kejenuhan suatu minyak menandai jumlah ikatan rangkap yang terdapat didalamnya, menjadi acuan tingkat kemudahan suatu minyak-lemak teroksidasi, sekaligus mengindikasikan tinggi rendahnya titik cairnya. Semakin jenuh suatu minyak berarti semakin kecil pula jumlah ikatan rangkap pada asam resinnya, semakin sulit minyak untuk teroksidasi dan semakin tinggi titik cairnya. Hal tersebut berlaku sebaliknya. Penambahan kloroform dalam uji iod berfungsi untuk melarutkan minyak atau lemak gum rosin ester yang diuji. Dalam keadaan larut minyak atau lemak akan mudah bereaksi dengan reagen yang diberikan.

Jumlah ikatan rangkap dalam asam resin menentukan seberapa banyak atom I yang dapat bereaksi. Selanjutnya penambahan KI akan memecah kembali ikatan iodin dengan asam resin tersebut sehingga atom I yang sudah berikatan kembali terlepas dan membentuk senyawa I_2 , senyawa I_2 inilah yang dijadikan representasi jumlah ikatan rangkap pada minyak atau lemak melalui titrasi dengan $\text{Na}_2\text{S}_2\text{O}_3$.

Bilangan iod FMRE yang dihasilkan dari percobaan ini berkisar antara 28-30 seperti yang terlihat pada Gambar 4.6 semakin tinggi suhu reaksi maka bilangan iod nya akan semakin tinggi pula hal tersebut menunjukkan suhu reaksi berpengaruh terhadap nilai bilangan iod dimana semakin tinggi suhu reaksi maka nilai bilangan iod akan semakin tinggi pula.



Gambar 4.6 Bilangan iod FMRE

4.3 Perbandingan Kualitas FMRE yang Dihasilkan dengan Standar Produk China

Standar kualitas yang digunakan sebagai pembandingan adalah standar kualitas gum rosin modifikasi dari China karena di Indonesia sendiri belum menerbitkan standar kualitas gum rosin modifikasi. Analisis yang dilakukan diantaranya warna, titik lunak, bilangan asam dan bilangan iod. Perbandingan hasil analisis fisikokimia FMRE dengan gum rosin modifikasi standar China dapat dilihat pada Tabel 4.4

Tabel 4.4 Perbandingan Sifat fisiko kimia FMRE dan gumrosin modifikasi standar China

Sifat fisisko kimia	Variasi Suhu (°C)				Standar China
	140	160	180	200	
	>N	>N	>N	>N	
Warna	11,3	11,9	15,6	16,6	8-9
Kelarutan dalam toluen (1:1)	Larut	Larut	Larut	Larut	Larut
Bilangan asam (mg KOHg)	183,05	176,77	176,04	175,36	5-8
Bilangan iod (%)	30,67	28,31	31,84	28,88	-
Titik Lunak (°C)	81	81	81	81	78-88

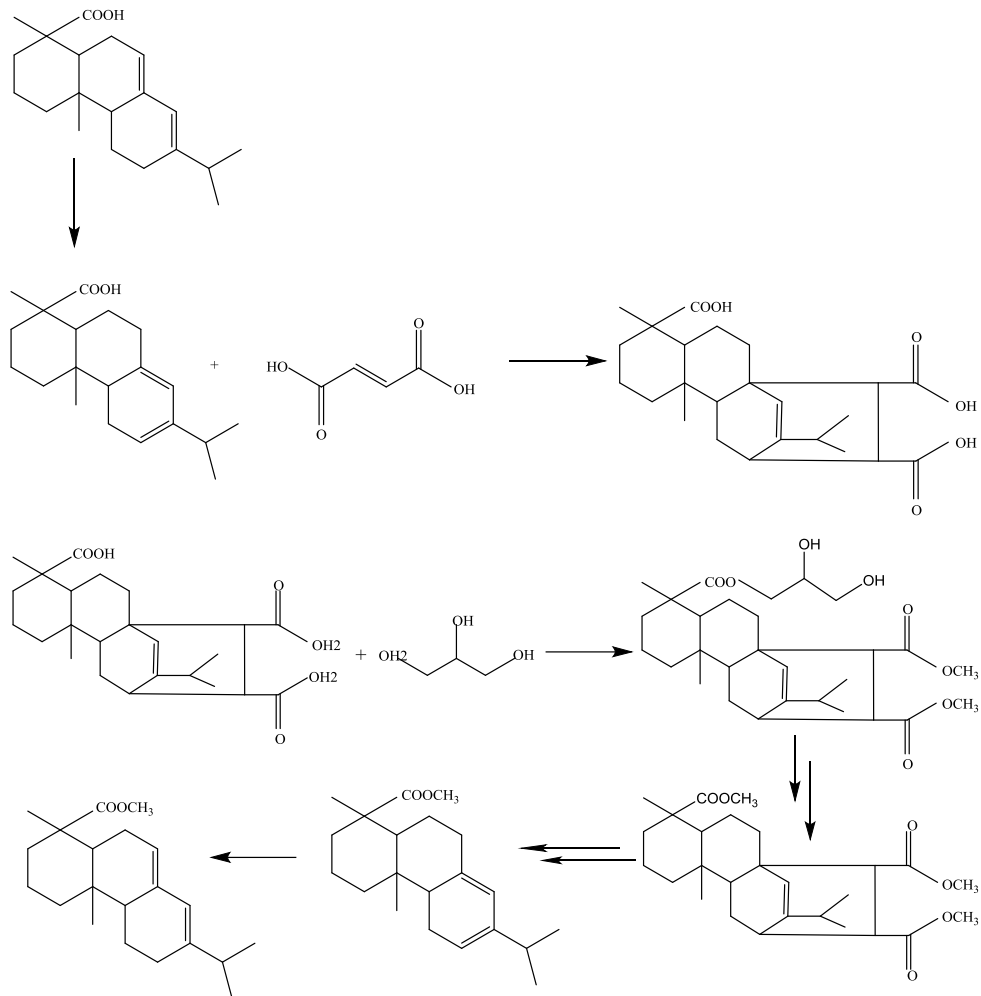
Warna FMRE yang dihasilkan belum memenuhi standar produk China yang menyatakan rentang *grade* untuk warna adalah 8-9, sedangkan pada hasil analisis menunjukkan warna ester yang dihasilkan >9. Proses pemanasan yang berulang pada suhu yang tinggi dan dalam waktu yang lama menyebabkan terjadinya penurunan

kualitas warna pada produk. Kirk dan Othmer (2007) menyatakan bahwa faktor yang sangat berpengaruh terhadap pengotoran warna gum rosin adalah pemanasan yang terlalu lama. FMRE dapat larut dalam toluena, kelarutan dinyatakan dalam jumlah maksimum zat yang larut dalam suatu pelarut. Toluena adalah salah satu jenis pelarut yang bersifat non polar sehingga dapat melarutkan zat yang terdapat dalam rosin ester (Khadafi, *et al.*, 2014).

Titik lunak FMRE yang dihasilkan sudah memenuhi pada standar produk China yang menyaratkan nilai titik lunak 78-88 °C. Titik lunak yang tinggi dapat dipengaruhi oleh tingkat kemasakan. Tingkat kemasakan berhubungan erat dengan kadar terpenin yang tersisa dalam gum rosin. Makin kecil kadar terpenin sisa, makin tinggi nilai titik lunaknya (Wiyono *et al.*, 2007).

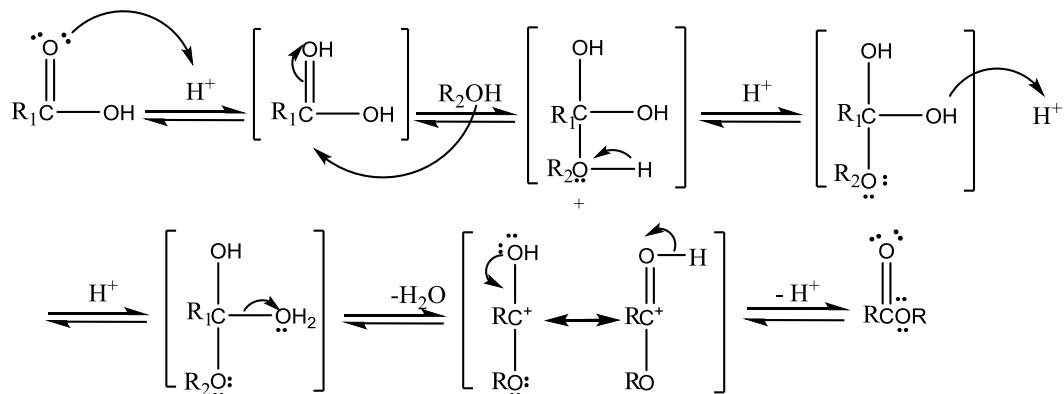
Selain warna dan titik lunak, bilangan asam merupakan salah satu sifat khas kimia gum rosin untuk mengetahui kualitas dari gum rosin tersebut. Salah satu tujuan utama proses esterifikasi gum rosin yaitu menurunkan bilangan asam agar dapat memperluas penggunaannya. Pada hasil analisis FMRE yang dihasilkan terjadi penurunan bilangan asam meskipun tidak secara signifikan. Penurunan bilangan asam ini disebabkan gugus karboksil asam resin pada FMRE bereaksi dengan gliserol membentuk ikatan ester. Atom H sebagai pembawa sifat asam dari gugus karboksil asam resin berikatan dengan OH dari gliserol. Hal ini menyebabkan jumlah atom H dalam asam resin berkurang yang berdampak pada penurunan bilangan asam ester yang dihasilkan.

Reaksi esterifikasi pada dasarnya adalah penggantian hidrogen pada gugus karbonil dengan hidrokarbon atau alkil. Proses esterifikasi diawali dengan mencampurkan gum rosin dan gliserol dengan ratio mol 2 : 1, kemudian ditambahkan katalis PTSA (*p-toluene sulphonic acid*) dengan konsentrasi 0,3%. Reaksi esterifikasi ini bersifat *reversible* karena dikatalis oleh asam. Katalis asam menyebabkan asam karboksilat mengalami konyugasi (Widyarti dan Hanafi, 2008). Proses esterifikasi dilakukan pada suhu (140 °C, 160 °C, 180 °C, dan 200 °C) dengan lama waktu reaksi (1, 2, 3, dan 4 jam). Reaksi esterifikasi pada asam karboksilat dengan FA dan gliserol disajikan pada Gambar 4.7.



Gambar 4.7 Reaksi esterifikasi asam karboksilat

Pada proses esterifikasi Gambar 4.7 ini asam-asam resin pada gum rosin yang mempunyai ikatan rangkap *s-trans* akan diubah menjadi asam levopimarat yang mempunyai ikatan rangkap *s-cis*. Setelah berubah menjadi asam levopimarat kemudian akan bereaksi dengan asam fumarat, baru setelahnya direaksikan dengan alkohol untuk membentuk ester. Reaksi esterifikasi akan menghasilkan karbonil ester (RCOOR'). Produk FMRE yang dihasilkan merupakan campuran antara gliserol monoester, diester, triester, sisa katalis, sisa gliserol, air, dan asam lemak bebas. Sifat fisikokimia FMRE yang dihasilkan dipengaruhi oleh konfigurasi struktural asam lemak seperti struktur molekul, panjang rantai, tingkat kejenuhan, dan cabang rantai (Wahyuni *et al.*, 2016). Mekanisme reaksi esterifikasi gum rosin fumarat dan gliserol dengan katalis PTSA disajikan pada Gambar 4.7.

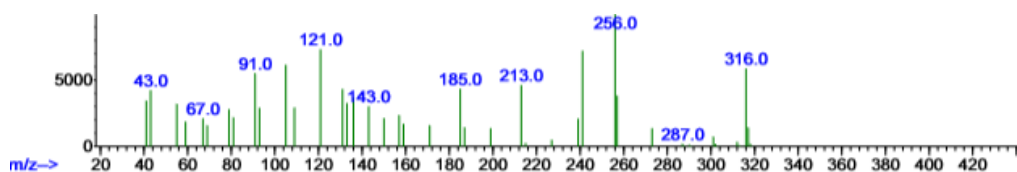


Gambar 4.8. Mekanisme reaksi esterifikasi FMRE

Keterangan : R_1 = Alkil dari asam-asam resin gum rosin

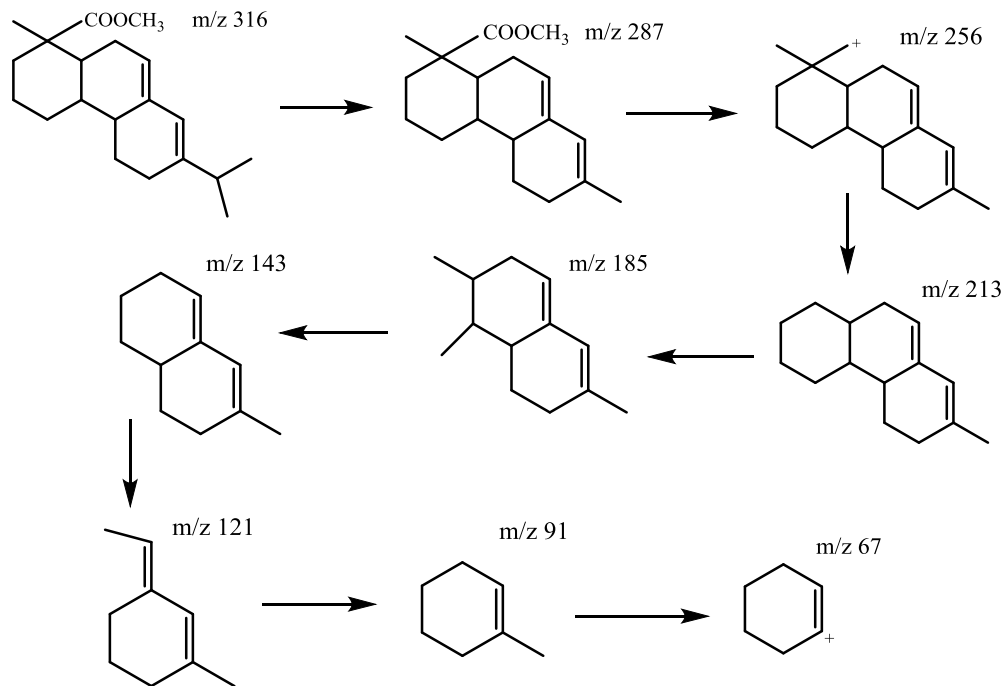
R_2 = Alkohol

Gambar 4.8 menjelaskan bahwa terjadi pembentukan senyawa proton pada asam karboksilat. Pada tahap ini terjadi perpindahan proton dari katalis asam atom oksigen pada gugus karboksil. Kemudian, pada tahapan berikutnya alkohol nukleofilik menyerang karbon positif pada atom karbon karbonil kemudian diserang oleh atom oksigen dari alkohol, yang bersifat nukleofilik sehingga terbentuk ion oksonium. Pada proses ini terjadi pelepasan proton atau deprotonasi dari gugus hidroksil milik alkohol, menghasilkan senyawa kompleks teraktivasi. Protonasi terhadap salah satu gugus hidroksil yang diikuti pelepasan molekul air menghasilkan ester (Prasetyo *et al.*, 2012).



Gambar 4.9 Spektum abietat metil ester

Berdasarkan data library GC-MS pada Gambar 4.9 senyawa abietat metil ester mempunyai rumus molekul $C_{21}H_{32}O_2$ dengan berat molekul 316. Spektrum massa yang diperoleh, ion molekul dengan m/z 316 dengan puncak dasar m/z 256. Pola fragmentasi dari spektrum massa diinterpretasikan pada reaksi yang disajikan pada Gambar 4.9.



Gambar 4.10 Pola fragmentasi abietat metil ester

Berdasarkan Gambar 4.9 dapat dilihat pola fragmentasi dari abietat metil ester diawali dari terbentuknya ion molekul dengan m/z 316. Puncak dasar dari fragmen atau *base peak* dengan m/z 256.

4.4 Analisis Gas Chromatograph - Mass Spectrometer (GC-MS)

Gas Chromatograph adalah analisis yang digunakan untuk mengetahui jumlah komponen yang dikandung oleh sampel gum rosin awal dan FMRE dari setiap perlakuan yang ditentukan dalam penelitian ini. Prinsip analisis kromatografi gas adalah pemisahan komponen berdasarkan perbedaan laju gerak komponen-komponen yang akan diidentifikasi. Berat molekul dan polaritas komponen adalah faktor-faktor yang akan mempengaruhi perbedaan laju gerak tersebut. Komponen yang kan menguap pada waktu awal pemisahan komponen adalah komponen dengan berat molekul rendah dan polaritas yang rendah pula. Berdasarkan data hasil analisis GC-MS pada gum rosin dapat dilihat senyawa-senyawa yang terkandung dalam bahan baku gum rosin. Hasil analisis GC-MS gum rosin disajikan pada Tabel 4.5.

Tabel 4.5 Komponen penyusun gum rosin

Waktu retensi	Nama senyawa	Luas area (%)
35,09	Asam 1-fenatrenkarboksilat	0,76
35,16	Asam kaurnenoat	2,38
35,92	Asam abiatat	45,85
36,10	Asam pimarar	6,10
36,69	Asam resin	39,46
36,90	Asam palustrar	5,43

Berdasarkan Tabel 4.5 dapat diketahui bahwa komponen senyawa-senyawa yang terdapat didalam gum rosin adalah asam-asam resin diantaranya yaitu asam 1-fenatrenkarboksilat pada waktu retensi 35,09 dengan kisaran luas area 0,76%, asam kaurnenoat pada waktu retensi 35,16 dengan kisaran luas area 2,38%, asam abietat pada waktu retensi 35,92 dengan kisaran luas area mencapai 45,85%, asam pimarar pada waktu retensi 36,10 dengan kisaran luas area 6,10%, asam resin pada waktu retensi 36,69 dengan kisaran luas area mencapai 39,46% dan asam palustrar pada waktu retensi 36,90 dengan kisaran luas area 5,43%. dari keseluruhan asam-asam resin didapatkan senyawa asam resin yang memiliki luas area paling besar yaitu asam abietat dengan luas area yang mencapai 45,85%. Hasil analisis ini sesuai dengan pernyataan Wang *et al.* (2016) yang menyatakan bahwa gum rosin merupakan senyawa kompleks yang terdiri dari 70% asam abietat, asam pimarar, dan isomernya. Menurut Kaith *et al.* (2016) gum rosin terdiri dari asam resin seperti asam resin tipe abietat yang memiliki ikatan rangkap terkonjugasi dan asam resin tipe pimarar dengan ikatan rangkap non-terkonjugasi. Asam resin adalah campuran kompleks dari beberapa senyawa, terutama jenis abietat dan asam pimarar yang termasuk dalam kelompok senyawa organik yang diterpen (Jindal *et al.*, 2017). Menurut Purnavita *et al.* (2017), gum rosin mengandung 90% asam resin dan 10% komponen selain asam resin, sedangkan kandungan asam karboksilat dalam gum rosin sebagian besar adalah asam abietat.

4.4.1 Sintesis FMRE dengan variasi suhu 140 °C dan waktu reaksi 1 jam

Analisis GC-MS atau *Gas Chromatograph Mass Spectrometer* merupakan metode pemisahan senyawa organik yang menggunakan dua metode analisis senyawa yaitu kromatografi gas (GC) untuk menganalisis jumlah senyawa secara kuantitatif dan spektrometer massa (MS) untuk menganalisis struktur molekul senyawa analit. Berdasarkan hasil analisis GC-MS maka diperoleh senyawa-senyawa yang terkandung dalam FMRE dengan variasi suhu 140 °C dan waktu reaksi 1 jam seperti pada Table 4.6.

Tabel 4.6 Sintesis FMRE variasi suhu 140 °C; 1 jam

Waktu retensi	Nama senyawa	Luas area (%)
35,75	Dehidroabietat metil ester	1,66
36,09	Asam pimarat	5,80
36,38	Abietat metil ester	2,21
36,59	Asam isopimarat	17,13
36,95	Asam dehidroabietat	8,56
37,20	Asam dehidroepibietat	0,55
37,31	Asam palustrat	0,55
37,69	Asam abietat	60,49
39,00	Asam pimarat	3,04

Berdasarkan hasil interpretasi analisis GC-MS dengan variasi suhu 140 °C dan waktu 1 jam, dapat diketahui bahwa komponen terbesar dari sampel gum rosin ester pada Tabel 4.6 adalah asam-asam resin, dengan kisaran area mencapai 96,13%. Asam-asam resin tersebut meliputi asam pimarat, asam isopimarat, asam dehidroabietat, asam dehidroepibietat, asam palustrat, dan asam abietat, dan asam pimarat dengan total presentase luas area tertinggi yaitu asam abietat yaitu 60,49%. Hal ini dikarenakan waktu reaksi yang belum optimal sehingga asam-asam resin dan gliserol masih belum beraksi dengan sempurna. Sedangkan untuk ester yang terbentuk yaitu dehidroabietat metil ester pada retensi 35,75 dengan kisaran area 1,66%, dan abietat metil ester pada retensi 36,38 dengan kisaran area 2,21% sehingga total ester yang didapat pada variasi suhu 140 °C dengan waktu 1 jam yaitu dengan total presentase luas area hanya mencapai 3,87%.

4.4.2 Sintesis FMRE dengan variasi suhu 140 °C dan waktu reaksi 2 jam

Berdasarkan hasil analisis GC-MS maka diperoleh senyawa-senyawa yang terkandung dalam FMRE dengan variasi suhu 140 °C dan waktu reaksi 2 jam seperti pada Table 4.7.

Tabel 4.7 Sintesis FMRE variasi suhu 140 °C ; 2 jam

Waktu retensi	Nama senyawa	Luas area (%)
17,70	3-aminoksi-4-kloro-butirat ester	0,13
34,30	Metil pimara-8, 15-dien-18-oat	0,40
35,16	Antranilat, N-metil-, butil ester	0,27
35,27	3-(3,4,5-trimetoksifenil)-,metil ester	0,13
35,29	Benzenpropanoat, tert-butilmethylsilyl ester	0,13
35,47	Asam rosin	7,26
35,75	Dehidroabietat metil ester	2,27
35,91	Asam kaurenoat	0,80
36,31	Asam pimarat	6,69
36,38	Abietat metil ester	2,94
36,58	Asam isopimarat	9,89
36,87	Asam palustrat	0,53
36,94	Asam dehidroabietat	11,63
37,16	Asam dehidroepiabietat	3,21
38,48	Asam abietat	53,35

Senyawa-senyawa yang merupakan komponen utama dari FMRE dapat dilihat pada Tabel 4.7 dari hasil interpretasi analisis GC-MS dengan variasi suhu 140 °C dan waktu 2 jam, dapat diketahui bahwa komponen terbesar dari sampel gum rosin ester pada Tabel 4.7 adalah asam-asam resin, dengan kisaran area mencapai 93,73%. Asam-asam resin tersebut meliputi asam kaurenoat, asam pimarat, asam dehidroabietat, asam abietat, asam palustrat dan asam dehidroepiabietat dengan nilai persentase luas area tertinggi adalah asam abietat yaitu 53,35%. Hal ini dikarenakan waktu reaksi yang belum optimal sehingga asam-asam resin dan gliserol masih belum beraksi dengan sempurna. Sedangkan untuk ester yang terbentuk yaitu 3-aminoksi-4-kloro-, butil ester pada waktu retensi 17,70 dengan kisaran area 0,13%, metil pimara-8, 15-dien-18-oat pada retensi 34,30 dengan kisaran area mencapai 0,40%, antranilat, N-metil-, butil ester pada retensi 35,27 dengan kisaran area 0,27%, 3-(3,4,5-trimetoksifenil)-, metil ester pada retensi 35,27 dengan kisaran area 0,13%, tert-butilmethylsilyl ester pada retensi 35,29 dengan kisaran area 0,13%, dehidroabietat metil ester pada retensi 35,75 dengan kisaran

area mencapai 2,27%, dan abietat metil ester pada retensi 36,38 dengan kisaran area mencapai 2,94% sehingga total ester yang didapat pada variasi suhu 140 °C dengan waktu 2 jam yaitu dengan total presentase luas area hanya mencapai 6,27%.

4.4.3 Sintesis FMRE dengan variasi suhu 140 °C dan waktu reaksi 3 jam

Berdasarkan hasil analisis GC-MS dengan variasi suhu 140 °C dan waktu reaksi 3 jam diperoleh senyawa-senyawa dalam FMRE seperti pada Table 4.8

Tabel 4.8 Sintesis FMRE variasi suhu 140 °C; 3 jam

Waktu retensi	Nama senyawa	Luas area (%)
28,61	Dietil ester malonat	0,16
32,40	Karbamat, 1-naphtalenil-, metil ester	0,16
34,32	Podocarp-8-en-15-oat, 13.alpha.-metil-13-vinil-, metil ester	0,47
34,53	1,4,8-siklodekatrien-1-karboksilat-12-etenil-metil ester	0,98
35,16	Antranilat, n-metil butil ester	0,49
35,40	Asetat-2-asetilamino-fenil ester	0,47
35,66	Asam isopimarat	1,25
35,76	Dehidroabietat metil ester	3,76
35,93	Asam palustrat	1,25
36,01	Asam kaurenoat	1,25
36,38	Abietat metil ester	3,76
36,96	Asam dehidroabietat	17,71
37,27	Asam levopimarat	4,08
38,48	Asam abietat	60,97

Senyawa-senyawa yang merupakan komponen utama dari FMRE dapat dilihat pada Tabel 4.8. Berdasarkan hasil interpretasi analisis GC-MS dengan variasi suhu 140 °C dan waktu 3 jam, dapat diketahui bahwa komponen terbesar dari sampel FMRE adalah asam-asam resin, dengan kisaran area mencapai 89,14%. Asam-asam resin tersebut meliputi asam kaurenoat, asam pimarat, asam dehidroabietat, asam abietat, asam palustrat dan asam levopimarat dengan nilai persentase luas area tertinggi adalah asam abietat yaitu 60,67%. Hal ini dikarenakan suhu reaksi yang belum optimal sehingga asam-asam resin dan gliserol masih belum beraksi dengan sempurna selain itu juga hasil yang terdeteksi pada GC-MS masih belum optimal. Sedangkan untuk ester yang terbentuk yaitu dietil ester malonat pada retensi 28,61 dengan kisaran area mencapai 0,16%, karbamat, 1-naphtalenil-, metil ester pada retensi 32,40 dengan kisaran area mencapai 0,16%, podocarp-8-en-15-oat, 13.alpha.-metil-13-vinil-, metil ester pada retensi 33,86

dengan kisaran area mencapai 0,47%, 1,4,8-siklodekatrien-1-karboksilat-12-etenil-, metil ester, pada retensi 34,53 dengan kisaran area mencapai 0,98%, antranilat, n-metil butil ester pada retensi 35,16 dengan kisaran area 0,49%, asetat 2-acetilamino-fenil ester pada retensi 35,54 dengan kisaran area mencapai 0,47%, dehidroabietat metil ester pada retensi 35,76 dengan kisaran area mencapai 3,76% dan abietat metil ester pada retensi 36,38 dengan kisaran area mencapai 3,76%, sehingga total ester yang didapat pada variasi suhu 140 °C dengan waktu 3 jam yaitu dengan total presentase luas area mencapai 10,86%.

4.4.4 Sintesis FMRE dengan variasi suhu 140 °C dan waktu reaksi 4 jam

Berdasarkan data GC-MS yang telah didapatkan, produk hasil sintesis dari gum rosin fumarat dengan gliserol dengan menggunakan asam *p*-toluenasulfonat sebagai katalis pada variasi suhu reaksi 140 °C dan waktu reaksi 4 diperoleh senyawa-senyawa yang terkandung dalam produk akhir FMRE seperti yang tersaji pada Table 4.9.

Tabel 4.9 Sintesis FMRE variasi suhu 140 °C; 4 jam

Waktu Retensi	Nama Senyawa	Luas Area (%)
17,72	3,6,8-nonatrienat, 5-metil-etil ester	0,12
28,61	Dietil ester malonat	0,12
33,86	Metil bisnorabieta	0,85
34,30	Isopimaratan metil ester	0,48
35,02	4,5-Bis-dimetoksimetil-oktanadioat, dimetil ester	0,48
35,15	Asam kaurenat	0,24
35,19	Antranilat, n-metil, butil ester	0,24
35,39	Asam asetat 2-acetilamino-fenil ester	0,48
35,65	Asam pimaratan	1,09
35,75	Dehidroabietat metil ester	3,39
35,92	Benza [a] antrasena	4,21
36,01	Asam pimaratan	6,65
36,38	Abietat metil ester	2,90
36,47	Asam isopimaratan	0,60
36,96	Asam dehidroabietat	6,65
37,24	Asam levopimaratan	7,13
38,48	Asam abietat	59,26

Senyawa-senyawa yang merupakan komponen utama dari FMRE dapat dilihat pada Tabel 4.9. Hasil interpretasi analisis GC-MS dengan variasi suhu 140 °C dan waktu 4 jam, dapat diketahui bahwa komponen terbesar dari sampel FMRE adalah asam-asam resin, dengan kisaran area mencapai 92,27%. Asam-asam resin

tersebut meliputi asam kaurenoat, asam pimarat, asam dehidroabietat, asam abietat, asam palustrat, dan asam levopimarat dengan nilai persentase luas area tertinggi adalah asam abietat yaitu 59,26%. Hal ini dikarenakan suhu reaksi yang belum optimal sehingga asam-asam resin dan gliserol masih belum beraksi dengan sempurna selain itu juga hasil yang terdeteksi pada GC-MS masih belum optimal. Sedangkan untuk ester yang terbentuk yaitu 3,6,8-nonatrienat, 5-metil-etil ester pada retensi 17,72 dengan kisaran area mencapai 0,12%, dietil ester malonate pada retensi 28,61 dengan kisaran area mencapai 0,12%, isopimarat metil ester pada retensi 34,30 dengan kisaran area mencapai 0,48%, 4,5-Bis-dimetoksimetil-oktanadioat, dimetil ester pada retensi 35,02 dengan kisaran area mencapai 0,48%, asam asetat 2-acetilamino-fenil ester pada retensi 35,39 dengan kisaran area 0,48%, dehidroabietat metil ester pada retensi 35,75 dengan kisaran area mencapai 3,39%, dan abietat metil ester pada retensi 36,38 dengan kisaran area mencapai 2,90% sehingga total ester yang didapat pada variasi suhu 140 °C dengan waktu reaksi 4 jam yaitu dengan total presentase luas area hanya mencapai 7,73%.

4.4.5 Sintesis FMRE dengan variasi suhu 160 °C dan waktu reaksi 1 jam

Berdasarkan hasil analisis GC-MS maka diperoleh senyawa-senyawa yang terkandung dalam FMRE dengan variasi suhu 160 °C dan waktu reaksi 1 jam seperti pada Table 4.10.

Tabel 4.10 Sintesis FMRE variasi suhu 160 °C; 1 jam

Waktu Retensi	Nama Senyawa	Luas Area (%)
35,75	Dehidroabietat metil ester	6,36
36,09	Asam pimarat	7,73
36,38	Abietat metil ester	2,27
36,58	Asam kaurenoat	5,91
36,75	Asam palustrat	1,36
37,01	Asam dehidroabietat	9,09
37,66	Asam abietat	67,27

Senyawa-senyawa yang merupakan komponen utama dari FMRE dapat dilihat pada Tabel 4.10. Berdasarkan hasil interpretasi analisis GC-MS dengan variasi suhu 160 °C dan waktu 1 jam, dapat diketahui bahwa komponen terbesar dari sampel FMRE adalah asam-asam resin, dengan kisaran area mencapai 91,37%. Asam-asam resin tersebut meliputi asam kaurenoat, asam pimarat, asam

dehidroabietat, asam abietat, dan asam palustrat dengan nilai persentase luas area tertinggi adalah asam abietat yaitu 67,27%. Hal ini dikarenakan suhu reaksi yang tidak stabil sehingga hasil ester yang dihasilkan lebih rendah dari variasi suhu 140 °C dengan waktu 1 jam. Sedangkan untuk ester yang terbentuk yaitu dehidroabietat metil ester pada retensi 35,75 dengan kisaran area mencapai 6,36%, dan abietat metil ester pada retensi 36,38 dengan kisaran area mencapai 2,27%, sehingga total ester yang didapat pada variasi suhu 160 °C dengan waktu 1 jam yaitu dengan total presentase luas area sebesar 8,63%.

4.4.6 Sintesis FMRE dengan variasi suhu 160 °C dan waktu reaksi 2 jam

Berdasarkan hasil analisis GC-MS maka diperoleh senyawa-senyawa yang terkandung dalam FMRE dengan variasi suhu 160 °C dan waktu reaksi 2 jam seperti pada Table 4.11.

Tabel 4.11 Sintesis FMRE variasi suhu 160 °C; 2 jam

Waktu Retensi	Nama Senyawa	Luas Area (%)
34,30	Isopimaratan metil ester	1,09
35,40	Asetat 2-asetilamino-fenil ester	0,54
35,75	Dehidroabietat metil ester	5,80
36,02	Asam pimaratan	2,54
36,38	Abietat metil ester	2,72
36,76	Asam palustrat	1,99
36,86	Asam kaurenat	0,18
37,04	Asam dehidroabietat	12,86
37,73	Asam abietat	69,56

Senyawa-senyawa yang merupakan komponen utama dari FMRE dapat dilihat pada Tabel 4.11. Berdasarkan hasil interpretasi analisis GC-MS dengan variasi suhu 160 °C dan waktu 2 jam, dapat diketahui bahwa komponen terbesar dari sampel FMRE adalah asam-asam resin, dengan kisaran area mencapai 89,85%. Asam-asam resin tersebut meliputi asam kaurenat, asam pimaratan, asam dehidroabietat, asam abietat, dan asam palustrat dengan nilai persentase luas area tertinggi adalah asam abietat yaitu 69,56%. Hal ini dikarenakan suhu reaksi yang tidak stabil sehingga asam-asam resin dan gliserol masih belum beraksi dengan sempurna selain itu juga hasil yang terdeteksi pada GC-MS masih belum optimal. Sedangkan untuk ester yang terbentuk yaitu metil ester pada retensi 34,30 dengan kisaran area mencapai 1,09%, Asetat 2-asetilamino-fenil ester pada retensi 35,40

dengan kisaran area mencapai 0,54%, dehidroabietat metil ester pada retensi 35,75 dengan kisaran area mencapai 5,80%, dan abietat metil ester pada retensi 36,38 dengan kisaran area mencapai 2,72%, sehingga total ester yang didapat pada variasi suhu 160 °C dengan waktu reaksi 2 jam yaitu dengan total presentase luas area mencapai 10,15%.

4.4.7 Sintesis FMRE dengan variasi suhu 160 °C dan waktu reaksi 3 jam

Berdasarkan hasil analisis GC-MS maka diperoleh senyawa-senyawa yang terkandung dalam FMRE dengan variasi suhu 160 °C dan waktu reaksi 3 jam seperti pada Table 4.12.

Tabel 4.12 Sintesis FMRE variasi suhu 160 °C;3 jam

Waktu Retensi	Nama Senyawa	Luas Area (%)
34,31	Metil pimaratan	1,16
35,75	Dehidroabietat metil ester	6,71
35,90	Asam pimaratan	0,93
36,11	Asam palustrat	4,50
36,38	Abietat metil ester	2,08
37,03	Asam isopimaratan	16,20
37,26	Asam abietat	67,82

Senyawa-senyawa yang merupakan komponen utama dari FMRE dapat dilihat pada Tabel 4.12. Berdasarkan hasil interpretasi analisis GC-MS dengan variasi suhu 160 °C dan waktu reaksi 3 jam, dapat diketahui bahwa komponen terbesar dari sampel FMRE adalah asam-asam resin, dengan kisaran area mencapai 90,05%. Asam-asam resin tersebut meliputi asam pimaratan, asam abietat, asam palustrat dan asam isopimaratan dengan nilai persentase luas area tertinggi adalah asam abietat yaitu 67,82%. Hal ini dikarenakan suhu reaksi yang tidak stabil sehingga asam-asam resin dan gliserol masih belum beraksi dengan sempurna selain itu juga hasil yang terdeteksi pada GC-MS masih belum optimal. Sedangkan untuk ester yang terbentuk yaitu metil pimaratan padaretensi 34,31 dengan kisaran area mencapai 1,16%, dehidroabietat metil ester pada retensi 35,75 dengan kisaran area mencapai 6,71%, dan abietat metil ester pada retensi 36,38 dengan kisaran area mencapai 2,08% sehingga total ester yang didapat pada variasi suhu 160 °C dengan waktu reaksi 3 jam yaitu dengan total presentase luas area mencapai 9,95%.

4.4.8 Sintesis FMRE dengan variasi suhu 160 °C dan waktu reaksi 4 jam

Berdasarkan hasil analisis GC-MS maka diperoleh senyawa-senyawa yang terkandung dalam FMRE dengan variasi suhu 160 °C dan waktu reaksi 4 jam seperti pada Table 4.13.

Tabel 4.13 Sintesis FMRE variasi suhu 160 °C ; 4 jam

Waktu retensi	Nama senyawa	Luas area (%)
2,06	Formiat propil ester	0,16
33,79	2,7-dimetiloct-7-en-5-yn-4-yl ester	0,32
33,86	Metil bisnorabieta	1,11
34,31	Isopimarate metil ester	0,80
34,53	Asam kaurenoat	0,96
35,02	Oktadionat, dimetil ester	0,64
35,13	Antranilat, n-metil, butil ester	0,32
35,76	Dehidroabietat metil ester	3,82
35,90	Benza [a] antrasena	1,11
35,93	Asam pimarate	0,96
36,25	Asam palustrat	5,41
36,38	Abietat metil ester	3,03
36,97	Asam dehidroabietat	16,24
37,68	Asam abietat	58,28

Senyawa-senyawa yang merupakan komponen utama dari FMRE dapat dilihat pada Tabel 4.13. Berdasarkan hasil interpretasi analisis GC-MS dengan variasi suhu 160 °C dan waktu 4 jam, dapat diketahui bahwa komponen terbesar dari sampel FMRE adalah asam-asam resin, dengan kisaran area mencapai 86,69%. Asam-asam resin tersebut meliputi asam kaurenoat, asam pimarate, asam abietat, asam palustrat dan asam dehidroabietat dengan nilai persentase luas area tertinggi adalah asam abietat yaitu 58,28%. Hal ini dikarenakan suhu reaksi yang belum optimal dan tidak stabil sehingga jumlah ester yang didapatkan hanya sedikit, asam-asam resin dan gliserol masih belum beraksi dengan sempurna selain itu juga hasil yang terdeteksi pada GC-MS masih belum optimal. Sedangkan untuk ester yang terbentuk yaitu formiat propil ester pada retensi 2,06 dengan kisaran area mencapai 0,16%, 2,7-dimetiloct-7-en-5-yn-4-yl ester pada retensi 33,79 dengan kisaran area mencapai 0,32%, isopimarate metil ester pada retensi 34,31 dengan kisaran area mencapai 0,80%, oktaadionat dimetil ester pada retensi 35,02 dengan kisaran area mencapai 0,64%, dehidroabietat metil ester pada retensi 35,76 dengan kisaran area mencapai 3,82%, dan abietat metil ester pada retensi 36,38 dengan kisaran area

mecapai 3,03% sehingga total ester yang didapat pada variasi suhu 160 °C dengan waktu reaksi 4 jam yaitu dengan total presentase luas area mencapai 11,31%.

4.4.9 Sintesis FMRE dengan variasi suhu 180 °C dan waktu reaksi 1 jam

Berdasarkan hasil analisis GC-MS maka diperoleh senyawa-senyawa yang terkandung dalam FMRE dengan variasi suhu 180 °C dan waktu reaksi 1 jam seperti pada Table 4.14.

Tabel 4.14 Sintesis FMRE variasi suhu 180 °C; 1 jam

Waktu Retensi	Nama Senyawa	Luas Area (%)
35,46	Asam pimaric	7,49
35,75	Dehidroabietic methyl ester	1,95
36,38	Abietic methyl ester	1,95
36,59	Asam kaurenic	14,66
36,94	Asam dehidroabietic	7,17
37,69	Asam abietic	66,78

Senyawa-senyawa yang merupakan komponen utama dari FMRE dapat dilihat pada Tabel 4.14. Berdasarkan hasil interpretasi analisis GC-MS dengan variasi suhu 180 °C dan waktu 1 jam, dapat diketahui bahwa komponen terbesar dari sampel FMRE adalah asam-asam resin, dengan kisaran area mencapai 96,1%. Asam-asam resin tersebut meliputi asam kaurenic, asam pimaric, asam dehidroabietic dan asam abietic dengan nilai persentase luas area tertinggi adalah asam abietic yaitu 66,78%. Hal ini dikarenakan waktu reaksi yang belum optimal dan suhu reaksi yang belum stabil sehingga asam-asam resin dan gliserol masih belum beraksi dengan sempurna selain itu juga hasil yang terdeteksi pada GC-MS masih belum optimal. Sedangkan untuk ester yang terbentuk yaitu dehidroabietic methyl ester pada retensi 35,75 dengan kisaran area mencapai 1,95%, dan abietic methyl ester pada retensi 36,38 dengan kisaran area mencapai 1,95% sehingga total ester yang didapat pada variasi suhu 180 °C dengan waktu reaksi 1 jam yaitu dengan total presentase luas area hanya 3,9%.

4.4.10 Sintesis FMRE dengan variasi suhu 180 °C dan waktu reaksi 2 jam

Berdasarkan hasil analisis GC-MS maka diperoleh senyawa-senyawa yang terkandung dalam FMRE dengan variasi suhu 180 °C dan waktu reaksi 2 jam seperti pada Table 4.15.

Tabel 4.15 Sintesis FMRE variasi suhu 180 °C ; 2 jam

Waktu retensi	Nama senyawa	Luas area (%)
2,07	Asetat, trifluoro-, desil ester	0,35
33,85	Metil bisnorabieta	0,87
34,30	Metil -13-vinil-, metil ester	0,69
35,75	Dehidroabietat metil ester	4,33
35,90	Asam kaurenoat	1,73
36,27	Asam pimarar	0,87
36,38	Abietat metil ester	2,94
36,74	Asam palustrat	5,02
37,22	Asam dehidroabiatat	15,91
39,30	Asam abietat	58,83

Senyawa-senyawa yang merupakan komponen utama dari FMRE dapat dilihat pada Tabel 4.15. Berdasarkan hasil interpretasi analisis GC-MS pada Tabel 4.13 dengan variasi suhu 180 °C dan waktu 2 jam, dapat diketahui bahwa komponen terbesar dari sampel FMRE adalah asam-asam resin, dengan kisaran area mencapai 90,82%. Asam-asam resin tersebut meliputi asam kaurenoat, asam pimarar, asam dehidroabietat, asam abietat, asam palustrat dan asam isopimarar dengan nilai persentase luas area tertinggi adalah asam abietat yaitu 58,83%. Hal ini dikarenakan suhu reaksi yang belum optimal sehingga asam-asam resin dan gliserol masih belum beraksi dengan sempurna selain itu juga hasil yang terdeteksi pada GC-MS masih belum optimal. Sedangkan untuk ester yang terbentuk yaitu Asetat, trifluoro-, desil ester pada retensi 2,07 dengan kisaran area mencapai 0,35%, metil-13-vinil-metil ester pada retensi 34,30 dengan kisaran area mencapai 0,69%, dehidroabietat metil ester pada retensi 35,75 dengan kisaran area mencapai 4,33%, dan abietat metil ester pada retensi 36,38 dengan kisaran area mencapai 2,94% sehingga total ester yang didapat pada variasi suhu 180 °C dengan waktu reaksi 2 jam yaitu dengan total presentase luas area mencapai 9,18%.

4.4.11 Sintesis FMRE dengan variasi suhu 180 °C dan waktu reaksi 3 jam

Berdasarkan hasil analisis GC-MS maka diperoleh senyawa-senyawa yang terkandung dalam FMRE dengan variasi suhu 180 °C dan waktu reaksi 3 jam seperti pada Table 4.16.

Tabel 4.16 Sintesis FMRE variasi suhu 180 °C ; 3 jam

Waktu retensi	Nama senyawa	Luas area (%)
1,97	Glikolat etil ester	1,31
33,87	Metal bisnorabieta	1,50
35,64	Asam isopimararat	2,25
35,75	Dehidroabietat metil ester	4,87
36,10	Asam palustrat	5,88
36,38	Abietat metil ester	1,12
36,76	Benza [a] antrasena	4,31
37,04	Asam dehidroabietat	20,97
37,24	Asam abietat	63,67

Senyawa-senyawa yang merupakan komponen utama dari FMRE dapat dilihat pada Tabel 4.16. Berdasarkan hasil interpretasi analisis GC-MS dengan variasi suhu 180 °C dan waktu 3 jam, dapat diketahui bahwa komponen terbesar dari sampel FMRE adalah asam-asam resin. Asam-asam resin tersebut meliputi asam abietat, asam palustrat, dan asam dehidroabietat dengan nilai persentase luas area tertinggi adalah asam abietat yaitu 63,67%. Hal ini dikarenakan suhu reaksi yang belum optimal sehingga asam-asam resin dan gliserol masih belum beraksi dengan sempurna selain itu juga hasil yang terdeteksi pada GC-MS masih belum optimal. Sedangkan untuk ester yang terbentuk yaitu glikolat etil ester pada retensi 1,97 dengan kisaran area mencapai 1,31%, dehidroabietat metil ester pada retensi 35,75 dengan kisaran area mencapai 4,87%, dan abietat metil ester pada retensi 36,38 dengan kisaran area mencapai 1,12% sehingga total ester yang didapat pada variasi suhu 180 °C dengan waktu 3 jam yaitu dengan total presentase luas area mencapai 10,68%.

4.4.12 Sintesis FMRE dengan variasi suhu 180 °C dan waktu reaksi 4 jam

Berdasarkan hasil analisis GC-MS maka diperoleh senyawa-senyawa yang terkandung dalam FMRE dengan variasi suhu 180 °C dan waktu reaksi 4 jam seperti pada Table 4.17.

Tabel 4.17 Sintesis FMRE variasi suhu 180 °C ; 4 jam

Waktu retensi	Nama senyawa	Luas area (%)
2,07	Formiat propil ester	0,17
17,72	Propanadioat, (hidroksiamino)-dietil ester	0,17
33,86	Metil bisnorabieta	1,18
34,30	Isodekstropimarcat metal ester	0,68
34,90	Beta-dihidroagarofuran	0,17
35,12	Tert-butildimetilsilil ester	0,17
35,30	Antranilat, n-metil, butil ester	0,34
35,39	Asetat 2-asetilamino-fenil ester	0,68
35,66	Asam isopimarcat	2,03
35,75	Dehidroabietat metil ester	4,40
35,90	Benza [a] antrasena	2,03
35,99	Asam pimarcat	0,85
36,09	Asam palustrat	3,56
36,38	Abietat metil ester	3,21
37,40	Asam abietat	79,53

Senyawa-senyawa yang merupakan komponen utama dari FMRE dapat dilihat pada Tabel 4.17. Berdasarkan hasil interpretasi analisis GC-MS dengan variasi suhu 180°C dan waktu 4 jam, dapat diketahui bahwa komponen terbesar dari sampel FMRE adalah asam-asam resin, dengan kisaran area mencapai 86,63%. Asam-asam resin tersebut meliputi asam asam pimarcat, asam abietat, asam palustrat dan asam isopimarcat dengan nilai persentase luas area tertinggi adalah asam abietat yaitu 79,53%. Hal ini dikarenakan suhu reaksi yang belum optimal sehingga asam-asam resin dan gliserol masih belum beraksi dengan sempurna selain itu juga hasil yang terdeteksi pada GC-MS masih belum optimal. Sedangkan untuk ester yang terbentuk yaitu formiat propil ester pada retensi 2,07 dengan kisaran area mencapai 0,17%, Propanadioat, (hidroksiamino)-dietil ester, pada retensi 17,72 dengan kisaran area mencapai 0,17%, metil pimarcat pada retensi 34,30 dengan kisaran area mencapai 0,68%, Tert-butildimetilsilil ester pada retensi 35,12 dengan kisaran area mencapai 0,17%, Asetat-2-acetilamino-fenil ester pada retensi 35,39 dengan kisaran area mencapai 0,68%, dehidroabietat metil ester pada retensi 35,75 dengan

kisaran area mencapai 4,40%, dan abietat metil ester pada retensi 36,38 dengan kisaran area mencapai 3,21% sehingga total ester yang didapat pada variasi suhu 180 °C dengan waktu reaksi 4 jam yaitu dengan total presentase luas area mencapai 13,37%.

4.4.3 Sintesis FMRE dengan variasi suhu 200 °C dan waktu reaksi 1 jam

Berdasarkan hasil analisis GC-MS maka diperoleh senyawa-senyawa yang terkandung dalam FMRE dengan variasi suhu 200 °C dan waktu reaksi 1 jam seperti pada Table 4.18.

Tabel 4.18 Sintesis FMRE variasi suhu 200 °C; 1 jam

Waktu Retensi	Nama Senyawa	Luas Area (%)
35,75	Dehidroabietat metil ester	3,79
36,38	Abietat metil ester	1,26
36,61	Asam rosin	1,05
36,75	Asam pimaratan	5,27
37,04	Asam dehidroabietat	23,18
37,24	Asam abietat	65,32

Senyawa-senyawa yang merupakan komponen utama dari FMRE dapat dilihat pada Tabel 4.18. Berdasarkan hasil interpretasi analisis GC-MS dengan variasi suhu 200 °C dan waktu 1 jam, dapat diketahui bahwa komponen terbesar dari sampel FMRE adalah asam-asam resin. Asam-asam resin tersebut meliputi asam pimaratan, asam dehidroabietat, asam abietat, dan asam rosin dengan nilai persentase luas area tertinggi adalah asam abietat yaitu 65,32%. Hal ini dikarenakan waktu reaksi yang belum optimal sehingga asam-asam resin dan gliserol masih belum beraksi dengan sempurna selain itu juga hasil yang terdeteksi pada GC-MS masih belum optimal. Sedangkan untuk ester yang terbentuk yaitu dehidroabietat metil ester pada retensi 35,75 dengan kisaran area mencapai 3,79%, dan abietat metil ester pada retensi 36,38 dengan kisaran area mencapai 1,26% sehingga total ester yang didapat pada variasi suhu 200 °C dengan waktu 1 jam yaitu dengan total presentase luas area hanya mencapai 5,05%.

4.4.14 Sintesis FMRE dengan variasi suhu 200 °C dan waktu reaksi 2 jam

Berdasarkan hasil analisis GC-MS maka diperoleh senyawa-senyawa yang terkandung dalam FMRE dengan variasi suhu 200 °C dan waktu reaksi 2 jam seperti pada Table 4.19.

Tabel 4.19 Sintesis FMRE variasi suhu 200 °C; 2 jam

Waktu retensi	Nama senyawa	Luas area (%)
17,70	3,6,8-nonatrienoat, 5-metil-etil ester	0,17
34,30	Isopimarate metil ester	0,83
35,02	4,5-bis-dimetoksimetil-oktanadioat dimetil ester	0,50
35,11	2-metilpropil ester	0,33
35,38	Asetat 2-acetilamino-fenil ester	0,67
35,75	Dehidroabietat metil ester	4,99
36,18	Asam pimarate	0,67
36,38	Abietat metil ester	3,33
36,50	Asam palustrat	2,00
36,97	Asam dehidroabietat	24,12
38,49	Asam abietat	62,39

Senyawa-senyawa yang merupakan komponen utama dari FMRE dapat dilihat pada Tabel 4.19. Berdasarkan hasil interpretasi analisis GC-MS dengan variasi suhu 200 °C dan waktu 2 jam, dapat diketahui bahwa komponen terbesar dari sampel FMRE adalah asam-asam resin, dengan kisaran area mencapai 89,18%. Asam-asam resin tersebut meliputi asam pimarate, asam palustrat, asam dehidroabietat, dan asam abietat, dengan nilai persentase luas area tertinggi adalah asam abietat yaitu 62,39%. Hal ini dikarenakan waktu reaksi yang belum optimal sehingga asam-asam resin dan gliserol masih belum beraksi dengan sempurna selain itu juga hasil yang terdeteksi pada GC-MS masih belum optimal. Sedangkan untuk ester yang terbentuk yaitu 3,6,8-nonatrienoat, 5-metil-etil ester pada retensi 17,70 dengan kisaran area mencapai 0,17%, isopimarate metil ester pada retensi 34,30 dengan kisaran area mencapai 0,83%, 4,5-bis-dimetoksimetil-oktanadioat dimetil ester pada retensi 35,02 dengan kisaran area mencapai 0,50%, Asetat-2-asetilamino-fenil ester pada retensi 35,38 dengan kisaran area mencapai 0,67%, dehidroabietat metil ester pada retensi 35,75 dengan kisaran area mencapai 4,99%, dan abietat metil ester pada retensi 36,38 dengan kisaran area mencapai 3,33% sehingga total ester yang didapat pada variasi suhu 200 °C dengan waktu reaksi 2

jam yaitu dengan total presentase luas area mencapai 10,82%, hal ini menunjukkan bahwa lamanya waktu reaksi berpengaruh nyata terhadap total ester yang di peroleh.

4.4.15 Sintesis FMRE dengan variasi suhu 200 °C dan waktu reaksi 3 jam

Berdasarkan hasil analisis GC-MS maka diperoleh senyawa-senyawa yang terkandung dalam FMRE dengan variasi suhu 200 °C dan waktu reaksi 3 jam seperti pada Table 4.20.

Tabel 4.20 Sintesis FMRE variasi suhu 200 °C; 3 jam

Waktu retensi	Nama senyawa	Luas area (%)
33,85	Metil bisnorabieta	2,95
35,48	5,8-dimetilbeliudinofolin	27,87
35,67	1-siklopentil-5-hidroksi-2-metil-, etil ester	3,28
35,75	Dehidroabietat metil ester	5,57
36,38	Abietat metil ester	0,98
36,97	Asam dehidroabietat	6,89
37,03	Asam penantrenkarboksilat	16,72
37,23	Asam abietat	35,74

Senyawa-senyawa yang merupakan komponen utama dari FMRE dapat dilihat pada Tabel 4.20 Berdasarkan hasil interpretasi analisis GC-MS dengan variasi suhu 200 °C dan waktu 3 jam, dapat diketahui bahwa komponen terbesar dari sampel FMRE adalah asam-asam resin, dengan kisaran area mencapai 59,35%. Asam-asam resin tersebut meliputi asam dehidroabietat, asam penantrenkarboksilat, dan asam abietat dengan nilai persentase luas area tertinggi adalah asam abietat yaitu 35,74%. Sedangkan untuk ester yang terbentuk yaitu 1-siklopentil-5-hidroksi-2-metil-, etil ester pada retensi 35,67 dengan kisaran area 3,28%, dehidroabietat metil ester pada retensi 35,75 dengan kisaran area mencapai 5,57%, dan abietat metil ester pada retensi 36,38 dengan kisaran area mencapai 0,98% sehingga total ester yang didapat pada variasi suhu 200 °C dengan waktu reaksi 3 jam yaitu dengan total presentase luas area mencapai 40,65%. Total ester pada waktu reaksi 3 jam mengalami peningkatan yang cukup signifikan dari waktu reaksi 2 jam.

4.4.16 Sintesis FMRE dengan variasi suhu 200 °C dan waktu reaksi 4 jam

Berdasarkan hasil analisis GC-MS maka diperoleh senyawa-senyawa yang terkandung dalam FMRE dengan variasi suhu 200 °C dan waktu reaksi 4 jam seperti pada Table 4.21.

Tabel 4.21 Sintesis FMRE variasi suhu 200 °C; 4 jam

Waktu retensi	Nama senyawa	Luas area (%)
33,04	Karbamat, (2-kloroetiliden), dietil ester	0,33
34,30	Isopimaratan metil ester	0,66
34,72	4-pentana (dithioic) metil ester	0,33
35,16	Antranilat, n-metil-, butil ester	0,50
35,48	Pine rosin mixture	17,69
35,66	1-siklopentil-5-hidroksi-2-metil-, etil ester	2,31
35,75	Dehidroabietat metil ester	4,30
36,25	Asam Pimaratan	2,15
36,37	Kauren-18-karboksilat metil ester	2,64
37,03	4-hidroksi-7-(trifluorometil)-, etil ester	12,72
39,02	Asam abietat	56,35

Hasil total senyawa ester yang didapatkan yaitu 41,48% pada variasi suhu 200 °C dan waktu reaksi 4 jam yang merupakan total ester tertinggi. dapat diketahui bahwa senyawa-senyawa ester yang terbentuk yaitu dehidroabietat metil ester, karbamat, (2-kloroetiliden), dietil ester, 4-pentana (dithioic) metil ester, antranilat, n-metil-, butil ester, 1-siklopentil-5-hidroksi-2-metil-, etil ester, kauren-18-karboksilat-metil ester, dan isopimaratan metil ester, sedangkan sisanya adalah asam-asam resin seperti asam abietat dan asam pimaratan. dengan total kisaran area asam abietat mencapai 56,35 %. Hal ini mungkin dikarenakan waktu reaksi dan suhu reaksi yang belum optimal sehingga asam-asam resin dan gliserol masih belum bereaksi dengan sempurna selain itu juga hasil yang terdeteksi pada GC-MS masih belum optimal dikarenakan suhu reaksi yang kemungkinan masih kurang tinggi dan tidak stabil saat proses esterifikasi berlangsung. Banyak rintangan sterik sehingga proses esterifikasi tidak berlangsung secara keseluruhan seperti yang dijelaskan oleh Arieta *et al.* (2008), bahwa laju esterifikasi asam karboksilat tergantung pada halangan sterik dalam alkohol dan asam karboksilat. Terbentuknya air mengakibatkan terjadinya reaksi kearah produk atau terjadi proses hidrolisis. Namun demikian total ester yang didapat cukup tinggi, sekitar 41,48% dan sudah

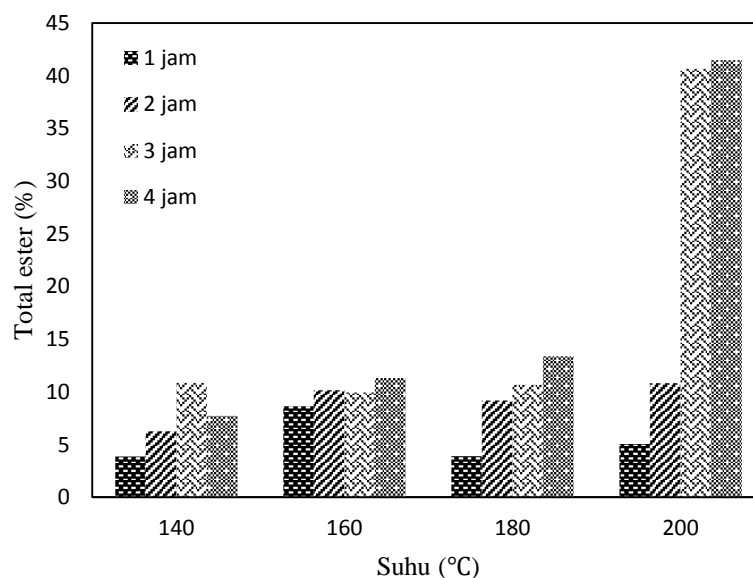
mengalami perubahan sifat fisikokimia sesuai dengan standar China yang menunjukkan gum rosin sudah termodifikasi.

Seperti tersaji dalam Tabel 4.22 dapat dilihat total senyawa ester dari hasil analisis GC-MS variasi suhu 140 °C, 160 °C, 180 °C, dan 200 °C dan waktu 1-4 jam. senyawa target dalam proses esterifikasi ini adalah total senyawa ester yang terkandung dalam FMRE dan senyawa senyawa lainya seperti asam-asam resin, alkohol, dan derivat lainnya.

Tabel 4.22 Total ester hasil analisis GC-MS FMRE

Waktu (jam)	Total ester (%)			
	140 °C	160 °C	180 °C	200 °C
1	3,87	8,63	3,9	5,05
2	6,27	10,15	9,18	10,82
3	10,86	9,95	10,68	40,65
4	7,73	11,31	13,37	41,48

Hasil analisis GC-MS FMRE pada Tabel 4.22 dapat diketahui bahwa total ester tertinggi didapatkan pada variasi suhu 200 °C dengan waktu reaksi 4 jam yaitu sebesar 41,48%. Data hasil analisis GC-MS dapat dilihat pada Gambar 4.9.



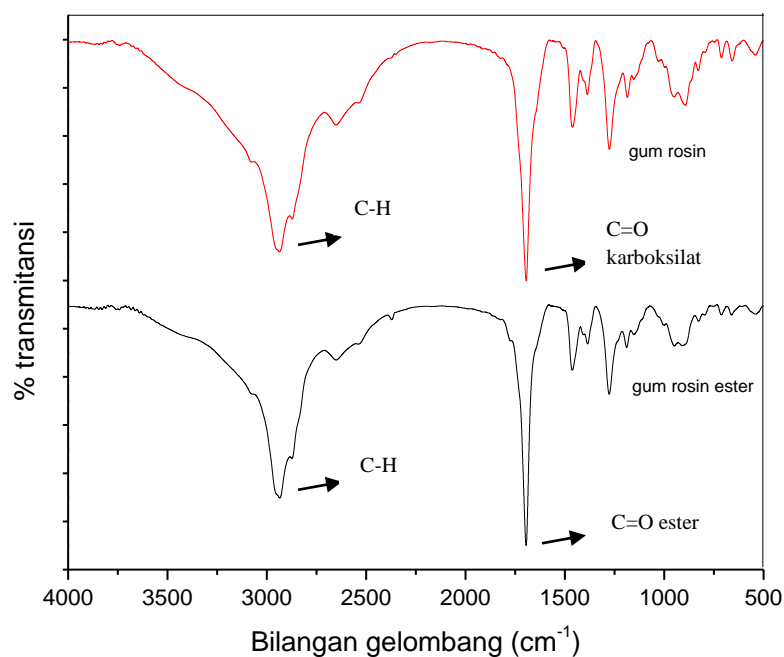
Gambar 4.11 Diagram hasil interpretasi total ester analisis GC-MS FMRE

Hasil interpretasi total ester analisis GC-MS pada Gambar 4.11 dapat diketahui bahwa pembentukan ester terbanyak didapatkan pada suhu 200 °C dengan lama waktu reaksi 4 jam. Semakin tinggi suhu dan waktu reaksi maka jumlah ester

yang terbentuk semakin banyak. Dalam penelitian ini presentase ester terbesar didapatkan pada suhu dan waktu tertinggi hal tersebut menunjukkan bahwa lamanya waktu dan suhu reaksi akan mempengaruhi banyaknya ester yang terbentuk, semakin lama waktu dan suhu reaksi maka ester yang terbentuk akan semakin tinggi.

4.5 Analisis *Fourier Transform Infrared* (FTIR)

FMRE hasil esterifikasi dianalisis dengan FTIR bertujuan untuk melihat perubahan spektrum sebelum dan sesudah. Senyawa-senyawa penyusun dalam FMRE diamati menggunakan *Fourier Transform Infrared* (FTIR) sesuai dengan pernyataan Rahmawati *et al.* (2013) yang menyatakan bahwa analisis FTIR digunakan untuk mengetahui gugus fungsional yang terkandung pada suatu sampel.



Gambar 4.12 Spektra FTIR dari FMRE

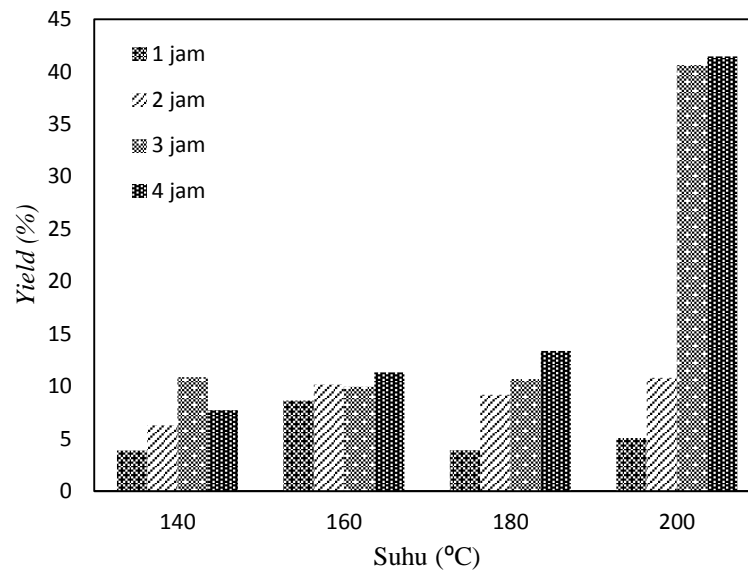
Spektra inframerah yang ditampilkan pada Gambar 4.12 menunjukkan gugus hidroksil ($-OH$) dari asam karboksilat menyerap kuat pada bilangan gelombang sekitar 3000 cm^{-1} . Dalam hal ini terlihat bahwa pita uluran $-OH$ berasal dari struktur asam karboksilat yang berada dalam keadaan stabil karena adanya ikatan hidrogen yang sangat kuat. Sementara itu hasil esterifikasi FMRE pada

gambar spektra kedua pada Gambar 4.6 serapan gugus hidroksil tersebut melemah dan serapan gugus karbonil menguat pada bilangan gelombang sekitar 1700 cm^{-1} , hal ini menunjukkan bahwa gum rosin telah teresterifikasi. Spektra FTIR pada Gambar 4.6 menginformasikan terdapat beberapa ciri khas dari spektra FTIR dari senyawa ester, yaitu adanya serapan gugus karbonil ester pada bilangan gelombang sekitar 1700 cm^{-1} yang merupakan pita khas regangan C=O ester, sesuai dengan pernyataan Rahmawati *et al.* (2013) yang menyatakan bahwa gugus fungsi C=O dari ester biasanya muncul pada angka gelombang $1690\text{-}1760\text{ cm}^{-1}$. Selain adanya serapan gugus karbonil C=O ester juga terdapat serapan dari C-O. Rentangan C-O menghasilkan dua serapan atau lebih, serapan muncul dalam kisaran bilangan gelombang 1300 cm^{-1} hingga 1000 cm^{-1} . Berdasarkan hasil spektra FTIR FMRE terdapat serapan C-O pada bilangan gelombang 1000 cm^{-1} dan 1250 cm^{-1} . Berdasarkan identifikasi tersebut, maka dapat diketahui bahwa senyawa produk yang terbentuk merupakan senyawa ester.

4.6 Yield FMRE

Yield adalah jumlah produk reaksi yang dihasilkan pada suatu reaksi kimia atau presentase produk yang dihasilkan dibanding dengan bahan baku yang terolah sehingga dapat menunjukkan efektifitas dari prosedur (Wahyuni *et al.*, 2016). Semakin tinggi nilai *yield* menunjukkan semakin banyak produk ester yang dihasilkan.

Pada proses esterifikasi *yield* tidak mungkin mencapai 100% karena reaksi esterifikasi bersifat bolak-balik (*reversible*) sehingga tidak dapat terkonversi sempurna. Uap air yang terbentuk merupakan salah satu faktor yang dapat mengurangi nilai *yield* produk FMRE karena uap air dapat menghidrolisis produk menjadi gliserol dan asam karboksilat kembali (Wahyuni *et al.*, 2016). Hubungan variasi waktu dan suhu reaksi terhadap *yield* FMRE dapat dilihat pada Gambar 4.13.



Gambar 4.13 Diagram presentase nilai *yield* FMRE

Berdasarkan Gambar 4.13 dapat dilihat bahwa lamanya waktu esterifikasi berpengaruh secara signifikan terhadap nilai *yield*. Penambahan suhu dan lama proses esterifikasi akan meningkatkan nilai *yield* FMRE karena dengan penambahan suhu dan waktu reaksi maka konversi reaktan menjadi gliserol ester akan semakin tinggi. Seperti yang dijelaskan oleh Fatmawati *et al.* (2013) bahwa faktor-faktor yang berpengaruh dalam reaksi esterifikasi diantaranya yaitu waktu reaksi dan suhu reaksi dimana semakin lama waktu reaksi maka kemungkinan kontak antar zat semakin besar sehingga akan menghasilkan konversi yang besar. Begitu pula apabila semakin tinggi suhu yang dioperasikan maka semakin banyak konversi yang dihasilkan. Hal ini sesuai dengan persamaan Arrhenius. Bila suhu naik maka harga k makin besar sehingga reaksi berjalan cepat dan hasil konversi makin besar. Nilai *yield* tertinggi yaitu 44,06% diperoleh dari produk FMRE pada waktu reaksi 4 jam dan suhu reaksi 200 °C, sedangkan nilai *yield* terendah yaitu sebesar 8,89% pada suhu 160 °C pada waktu reaksi 1 jam. Data tersebut menunjukkan perbedaan secara signifikan.

BAB V

PENUTUP

5.1 Simpulan

Kesimpulan dari hasil penelitian esterifikasi FMRE adalah :

1. Waktu reaksi dan suhu reaksi memberikan pengaruh nyata terhadap produk FMRE dan sifat fisikokimia yang dihasilkan. Berdasarkan data analisis GC-MS dapat disimpulkan bahwa waktu reaksi dan suhu reaksi optimal yang didapat untuk memperoleh produk FMRE adalah pada suhu 200 °C dengan waktu reaksi 4 jam dengan total ester sebanyak 44,03%, hal ini menunjukkan semakin tinggi suhu dan waktu reaksi maka produk yang dihasilkan akan semakin besar.
2. Hasil analisis sifat fisikokimia FMRE menunjukkan adanya peningkatan kualitas dari bilangan asam, titik lunak dan bilangan iod jika dibandingkan dengan uji fisikokimia gum rosin awal, yang menunjukkan gum rosin telah teresterifikasikan.

5.2 Saran

Saran yang dapat diambil dari penelitian ini adalah melakukan proses *bleaching* atau pemucatan pada produk FMRE sehingga didapatkan warna yang lebih baik lagi dan diperlukan penambahan asam seperti Na_2CO_3 untuk menurunkan kadar bilangan asam agar diperoleh produk yang sesuai dengan standar yang sudah ditetapkan.

DAFTAR PUSTAKA

- Aguilar, F., Dusemund, B., Galtier, Gilbert, P.J., Gott, D.M., Grilli, S., Gürtler, R., König, J., Lambré, C., Larsen, J-C., Leblanc, J-C., Mortensen, A., Parent-Massin, D., Pratt, I., Rietjens, I.M.C.M., Stankovic, I., Tobback, P., Verguieva, T., Woutersen, R.A. 2010. EFSA Panel on Food Additives and Nutrient Sources added to Food (ANS) Scientific Opinion on the safety of glycerol esters of gum rosin for the proposed uses as a food additive. *EFSA Journal*. 8(7):1654. 31. doi:10.2903/j.efsa.2010.1654.
- Alva, S., Utami, R.S., Shuyan, L.K., Puspasari, I., Mohammad, A.B. 2016. Synthesis and Characterization of Toluene Sulfonic Acid (TSA)-Doped Polypyrrole Nanoparticles: Effects of Dopant Concentrations. *International Journal of Innovation in Mechanical Engineering & Advanced Materials (IJIMEAM)*. 2(1). 1-9 ISSN: 2477-541X.
- Araji, N., Madijinza, D.D., Chatel, G., Moores, A., Jerome, F., Oliviera, K. 2017. Synthesis of Maleic and Fumaropimaric Acid from Furfural in the Presence of Betaine Hydrochloride and Hydrogen Peroxide. *Green Chemistry Journal*. 19(1). 98-101.
- Arieta Susila, Dara, M.B., Irawan, J. 2008. Pembuatan Metil Ester Asam Lemak dari CPO *Off Grade* dengan Metode Esterifikasi-Transesterifikasi. *Jurnal Teknik Kimia*. 15(2). 34-43.
- Daryono, E. D., 2015. Sintesis α -Pinene menjadi α -Terpineol menggunakan Katalis H_2SO_4 dengan Variasi Suhu Reaksi dan Volume Etanol. *Jurnal Teknik Kimia USU*.4(2).
- Fakhry, M.N., dan Rahayu, S.S. 2016. Pengaruh Suhu pada Esterifikasi Emil Alkohol dengan Asam Asetat Menggunakan Asam Sulfat sebagai Katalisator. *Jurnal Rekayasa Proses*.10(2). 64-69.
- Fatmawati, D., dan Shakti, P.D. 2013. Reaksi Metanolisis Limbah Minyak Ikan Menjadi Metil Ester sebagai Bahan Bakar Biodisel dengan Menggunakan Katalis NaOH. *Jurnal Teknologi Kimia dan Industri*. 2(2). 68-75.
- Hasibuan, H.A., dan Saihaan, D. 2012. Penentuan Bilangan Iod dan Titik Leleh Berdasarkan Kandungan Lemak pada Minyak Sawit dan Minyak Inti Sawit. *Jurnal Standarisasi*.15(1). 47-57.
- Jindal, R., Sharma, R., Maiti, M., Kaur, A., Sharma, P., Mishra, V., Jana, A.K. 2017. Synthesis and characterization of novel reduced Gum rosin-acrylamide

- copolymer-based nanogel and their investigation for antibacterial activity. *Journal Polymer Bull.* 74:2995–3014.
- Kaith, B.S., Jindal, R, Sharma, R. 2016. Study of Ionic Charge Dependent Salt Resistant Swelling Behavior and Removal of Colloidal Particles using Reduced Gum rosin- Poly(acrylamide)- Based Green Flocculant. *Iranian Polymer Journal.*25:349–362.
- Karlberg, Ann-Therese dan Hagvall, Lina. 2018. *Colophony: Rosin in Unmodified and Modified Form.* Sweden :University of Gothenburg.
- Khadafi, M., Rostika, I., dan Hidayat, T. 2014. Pengolahan Gondorukem Menjadi Bahan Pendarihan sebagai Aditif pada Pembuatan Kertas. *Jurnal Selulosa.* 04(1). 17-24.
- Kirk, R. E. dan Othmer, D. F. 2007. *Rosin dan Rosin Derivate.* Encyclopedia of Chemical Technology. Volume ke-21. New York : The InterscienceEncyclopedia. Inc.
- Kluve, A. YU., Skakovskii, E.D., Rozhkovaa, E.I., Kozlov, N.G., Molchanova, O.A., dan Puchkova, N.V. 2014. Synthesis and Investigation of Antiseptic Rosin-based Compositions. *Russian Journal of Applied Chemistry.* 87(2).230–233.
- Knesebeck, A.M., Ortiz, R.W.P., Filho, L.C., Zanoelo, E.F. 2018. Isomerization and hydration of fumaric acid under catalytic and noncatalytic conditions. *Reaction Kinetics, Mechanisms and Catalysis.* 125:521-534.
- Lempang, M. 2017. Studi Penyiadapan Getah Pinus Cara Bor dengan Stimulan H₂SO₄. *Jurnal Penelitian Hasil Hutan.* 35(3). 221-230.
- Linetrose, J., Tata, B.V.R., Talmon, Y., Aswal, V.K., Hassan, P.A., Srejith, L. 2015. Distinctive effect of maleic acid and fumaric acid on structural transitions in cationic micellar solution. *Colloid and Polymer Science.* 293:1383-1390.
- Liu, Jia-Ling., Liu, Xiong-Min., Li, Wei-Guang, Ma, Li., Shen, Fang. 2014. Kinetics of Gum Rosin Oxidation under 365 nm Ultraviolet Irradiation. *Monatsh Chem.* 145:209–212.
- Liu, Pin., Liu, Xiongmin., Kubota, Shiro., Huang, Pinxian, Wada, Yuji. 2019. Thermal Oxidation Process and Characteristic of Abietic Acid and Gum Rosin by Accelerating Rate Calorimeter (ARC). *Journal of Thermal Analysis and Calorimetry.* 138:479–488.

- Liu, Yanhui., Song, Jianing., Tan, Tianwei, Liu, Luo. 2015. Production of Fumaric Acid from L-Malic Acid by Solvent Engineering Using a Recombinant Thermostable Fumarase from *Thermus thermophilus* HB8. *Applied Biochemistry and Biotechnology*. 175:2823-2831.
- Okvitarini, N., Hidayah, M., Satriadi, H., Widayat, W. 2013. Pembuatan Biodiesel dari Minyak Goreng Mengguakan Katalis KOH dengan Penambahan Ekstrak Jagung. *Jurnal Teknologi Kimia dan Industri*. 2(3): 24-29.
- Podgorska, E., Kasprzak, M., Szwajgier, D. 2004. *Fumaric Acid Production by Rhizopous Nigricans and Rizopous Oryzae using Apple Juice*. *Polish Journal of Food and Nutrition Sciences*. 13/54(1).47–50. ISSN : 1230-0322.
- Praputri, E., Sundari, E., Firdaus, F., Sofyan, S. 2018. Pengaruh Katalis Homogen dan Heterogen pada Proses Hidrolisis Pati Umbi Singkong Karet Menjadi Glukosa. *Jurnal Litbang Industri*. 8(2): 105-110.
- Prasetyo, A.E., Anggara, W., dan Widayat. 2012. Potensi Gliserol dalam Pembuatan Turunan Gliserol Melalui Proses sterifikasi. *Jurnal Ilmu Lingkungan*. 10(1): 26-31.
- Purnami, Wardana, I.N.G., K, Veronika. 2015. Pengaruh Penggunaan Katalis Terhadap Laju dan Efisiensi Pembentukan Hidrogen. *Jurnal Rekayasa Mesin*. 6(1): 51-59.
- Purnavita, Sari., Sari Susanti dan Ronny Windhu Sudrajat. 2017. Formulasi Vernis Poliester Berbasis Gum Rosin-Asam Laktat dan Gliserol dengan Katalis SnCl₂. *Jurnal Teknik Kimia*. 2(1). 49-53.
- Radhiyatullah, A., Indriani, N., Hendra, M., Ginting, S. 2015. Pengaruh Berat Pati dan Volume Plasticizer Gliserol terhadap Karakteristik Film Bioplastik Pati Kentang. *Jurnal Teknik Kimia USU*. 4(3). 35-39.
- Rahmawati, D.A., Intaningrum, D., Istadi. 2013. Pembuatan dan Karakterisasi Katalis Heterogen SO₄²⁻-ZnO dan SO₄²⁻/ZnO dengan Metode Kopretisipasi dan Impregnasi untuk Produksi Biodisel dari Minyak Kedelai. *Jurnal Teknologi Kimia dan Industri*. 2(4).243-252.
- Raouf, M.E.A., Raheim, A., Abdul, M.R. 2018. Rosin: Chemistry, Derivatives, and Applications. *BAOJ Chem Journal* 4 (1): 039.
- Sayuti, M. 2017. Pengaruh Perbedaan Metode Ekstraksi , Bagian dan Jenis Pelarut Terhadap Rendemen dan Aktifitas Antioksidan Bambu Laut (*Issis Hippuris*). *Technology Science and Enginering Journal*. 1(3).

- Silberberg, Martin S. 2008. *Principle of General Chemistry*. Mc. Graw Hill Inc.
- Sukarno, A., 2018. Physical Properties of Turpentine and Gum Rosin Pinus Merkusii Jungh et de Vriese Tapped Oleoresin by Borehole Methode. *Journal Experimental Life Science*. 8 (1).
- Susanti, S., Purnavita, S., dan Sriyana, H.Y. 2017. Pembuatan Vernis Berbahan Gondorukem yang Dimodifikasi Gliserol dan Paduan Linseed Oil dengan Minyak Biji Karet menggunakan Metode Esterifikasi Tanpa Katalis. *Jurnal Inovasi Teknik Kimia*. 2(1). 54-59.
- Wahyuni, S., Hambali, E., Marbun, H.T.B. 2016. Esterifikasi Gliserol dan Asam Lemak Jenuh Saawit dengan Katalis MESA. *Jurnal Teknologi Industri Pertanian*. 26(3): 333-342.
- Waluyo, T.W., Wahyudi, I., & Santoso, G. 2012. Pagaruh Metode dan Arah Sadap terhadap Produksi Getah Jelutang Hutan Tanaman Industri. *Jurnal Penelitian Hasil Hutan*, 30(4), 301-131.
- Wang, Linlin., Ding, Shengfang., Gan, Panqin., Chen, Xiaopeng., Zhang, Dong., Wei, Xiaojie., Wang, Xubin. 2016. A supported nano ZnO catalyst based on a spent fluid cracking catalyst (FC3R) for the heterogeneous esterification of rosin. *Reaction Kinetics, Mechanisms and Catalysis*. 119:219-233.
- Widiyarti G dan Hanafi M. 2008. Pengaruh Konsentrasi Katalis dan Perbandingan molaritas reaktan pada sintesis senyawa monolaurin. *Jurnal Reaktor*. 12 (2): 90-97.
- Wiyono, B., Tachibana, S., Tinambunan, D., 2007. Reaction of Abietic Acid with Maleic Anhydride and Fumaric Acid and Attempts to Find the Fundamental Component of Fortified Rosin. *Pakistan Journal of Biological Sciences*. 10(10). 1588-1595.
- Xu, G., Zou, W., Chen, X., Xu, N., Liu, L. 2012. Fumaric Acid Production in *Saccharomyces cerevisiae* by In Silico Aided Metabolic Engineering. *PLoS ONE*. 7(12): e52086. doi:10.1371/journal.pone.0052086.
- Zhen, M.I., Xiao-an, NIE., Yi-geng, WANG., Xia, Chang., Gul-fu, LIN. 2013. Study on Synthesis and Performance of Rosin-Derived Polyamide as Epoxy Curing Agent. *Journal of Forest Products & Industry*. 2(2). 5-11 ISSN: 2325—4513.

Zhu, Y., Zhang, S., Geng, Z., Wang, D., Liu, F., Zhang, M., Bian, H., dan Xu, W.
2014. Analysis of Abietic Acid and Dehydroabietic Acid Residues in Raw
Ducks and Cooked Ducks. *Poultry Science*. 93 :2663–2667.

LAMPIRAN

Lampiran 1. Perhitungan penggunaan bahan

1. Perhitungan penggunaan gum rosin dan asam fumarat

$$\text{Mr gum rosin} = 302$$

$$\text{Mr asam fumarat} = 117$$

$$1 \text{ mol gum rosin} = \frac{\text{gram}}{\text{Mr}}$$

$$= \frac{\text{gram}}{302}$$

$$\text{gram} = 302$$

$$1 \text{ mol gum rosin} = 302 \text{ g}$$

Dalam penelitian ini akan digunakan gum rosin sebanyak 150 g

$$150 \text{ g gum rosin} = 1 \text{ mol gum rosin}$$

$$1 \text{ mol asam fumarat} = \frac{117}{302} \times 150 = 58,112 \text{ g}$$

Perbandingan ratio mol gum rosin : asam fumarat

$$2 : 1$$

$$150 \text{ g} : 29,06 \text{ g}$$

2. Perhitungan katalis PTSA 0,3% .

Penggunaan 0,3% katalis PTSA adalah 0,3% dari berat gum rosin yaitu 150 g

$$\frac{0.3}{100} \times 150 \text{ g} = 0,45 \text{ g}$$

3. Perhitungan gliserol 10%.

Penggunaan 10% gliserol adalah 10% dari berat gum rosin yaitu 150 g

$$\frac{10}{100} \times 150 \text{ g} = 15 \text{ g}.$$

Lampiran 2. Tabel perhitungan uji fisikokimia

Suhu (°C)	Waktu (jam)	Warna	Titik lunak (°C)	Bilangan asam (mg KOH/g)	Bilangan iod
140	4	11,3	81	W = 4,0202 g V = 26,1 mL	W = 1,0062 g V ₁ = 14,7 mL V ₂ = 36
160	4	11,9	81	W = 4,0199 g V = 25,2 mL	W = 1,0096 g V ₁ = 14,2 mL V ₂ = 36 mL
180	4	15,6	81	W = 4,0201 g V = 25,1 mL	W = 1,0072 g V ₁ = 12,9 mL V ₂ = 36 MI
200	4	16,6	83	W = 4,0210 g V = 25,0 mL	W = 1,0040 g V ₁ = 12,1 mL V ₂ = 36 MI
Gum rosin		6,6	78	W = 4,0202 V = 27 mL	W = 1,0053 V ₁ = 12,2 mL V ₂ = 36 MI

Lampiran 3. Perhitungan blanko dan FMRE

1. Blanko

a. Pengujian bilangan asam

$$\begin{aligned} AV &= \frac{V \times N \text{ KOH} \times 56,11}{m \text{ sampel}} \\ &= \frac{27 \times 0,5025 \times 56,11}{4,0202} \\ &= 189,361 \end{aligned}$$

b. Pengujian bilangan iod

$$\begin{aligned} IV &= \frac{(V_2 - V_1) \times N \text{ Na}_2\text{S}_2\text{O}_3 \times 12,69}{m \text{ sampel}} \\ &= \frac{(36 - 157,8) \times 0,1054 \times 12,69}{1,0053} \\ &= 24,214 \end{aligned}$$

2. FMRE suhu 140 °C waktu reaksi 4 jam

a. Pengujian bilangan asam

$$\begin{aligned} AV &= \frac{V \times N \text{ KOH} \times 56,11}{m \text{ sampel}} \\ &= \frac{26,1 \times 0,5025 \times 56,11}{4,0202} \\ &= 183,05 \end{aligned}$$

b. Pengujian bilangan iod

$$\begin{aligned} IV &= \frac{(V_2 - V_1) \times N \text{ Na}_2\text{S}_2\text{O}_3 \times 12,69}{m \text{ sampel}} \\ &= \frac{(36 - 14,7) \times 0,1054 \times 12,69}{1,0062} \\ &= 28,31 \end{aligned}$$

3. FMRE suhu 160 °C waktu reaksi 4 jam

a. Pengujian bilangan asam

$$AV = \frac{V \times N \text{ KOH} \times 56,11}{m \text{ sampel}}$$

$$= \frac{25,2 \times 0,5025 \times 56,11}{4,0199}$$

$$= 176,75$$

b. Pengujian bilangan iod

$$IV = \frac{(V_2 - V_1) \times N \text{ Na}_2\text{S}_2\text{O}_3 \times 12,69}{m \text{ sampel}}$$

$$= \frac{(36 - 14,2) \times 0,1054 \times 12,69}{1,0096}$$

$$= 28,88$$

4. FMRE suhu 180 °C waktu reaksi 4 jam

a. Pengujian bilangan asam

$$AV = \frac{V \times N \text{ KOH} \times 56,11}{m \text{ sampel}}$$

$$= \frac{25,1 \times 0,5025 \times 56,11}{4,0201}$$

$$= 176,04$$

b. Pengujian bilangan iod

$$IV = \frac{(V_2 - V_1) \times N \text{ Na}_2\text{S}_2\text{O}_3 \times 12,69}{m \text{ sampel}}$$

$$= \frac{(36 - 12,9) \times 0,1054 \times 12,69}{1,0072}$$

$$= 30,67$$

5. FMRE suhu 200 °C waktu reaksi 4 jam

a. Pengujian bilangan asam

$$AV = \frac{V \times N \text{ KOH} \times 56,11}{m \text{ sampel}}$$

$$\frac{25,0 \times 0,5025 \times 56,11}{4,0210}$$

$$= 175,30$$

b. Pengujian bilangan iod

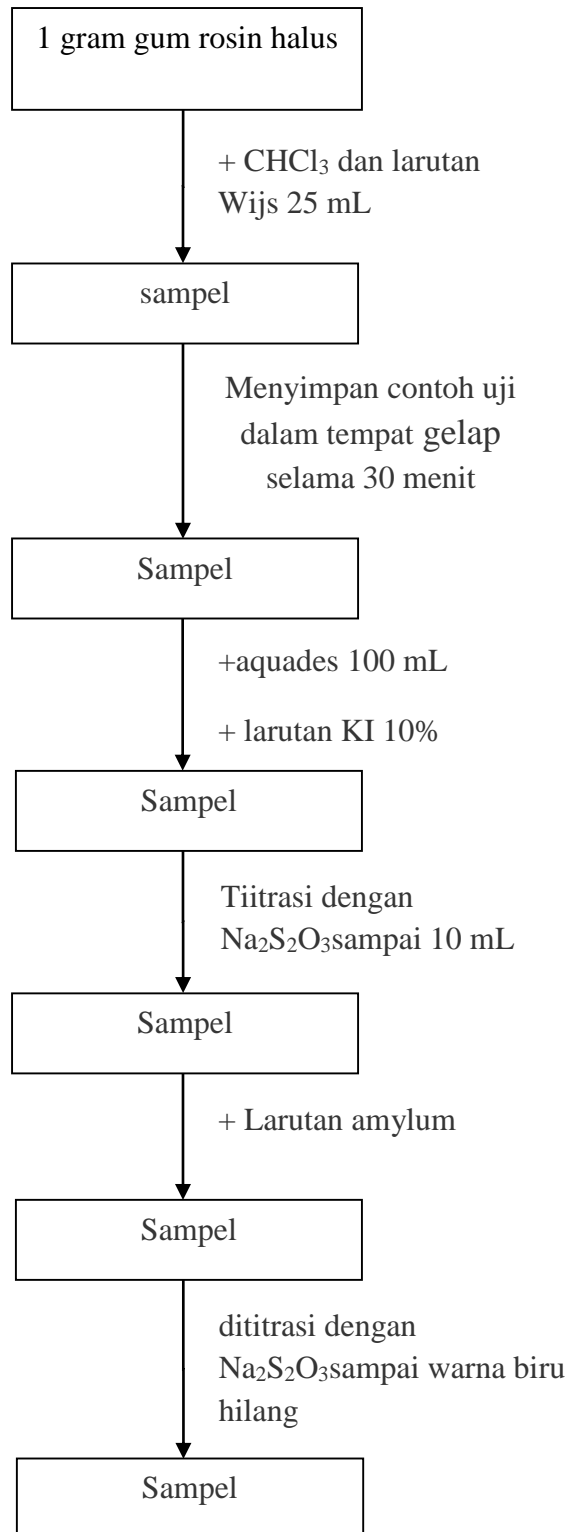
$$IV = \frac{(V_2 - V_1) \times N \text{ Na}_2\text{S}_2\text{O}_3 \times 12,69}{m \text{ sampel}}$$

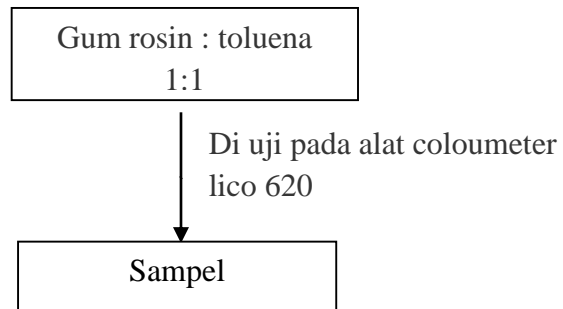
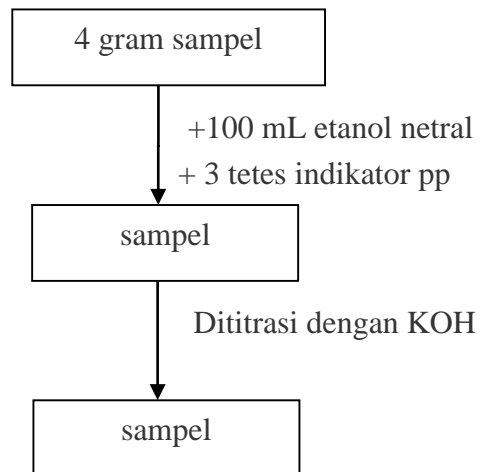
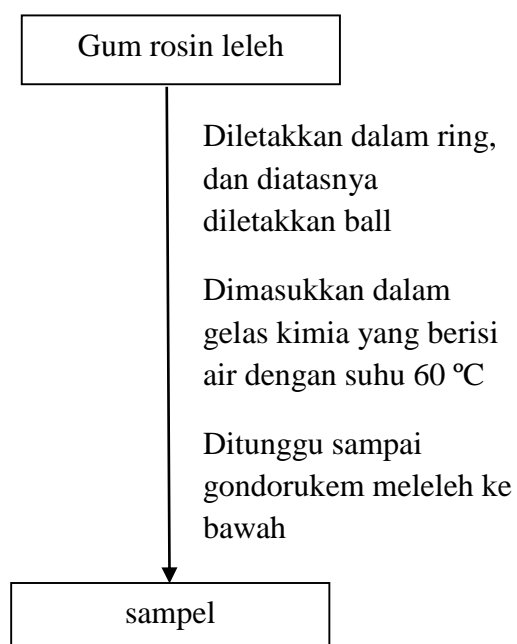
$$= \frac{(36 - 12,1) \times 0,1054 \times 12,69}{1,0040}$$

Lampiran 4.Presentase nilai *yield* FMRE

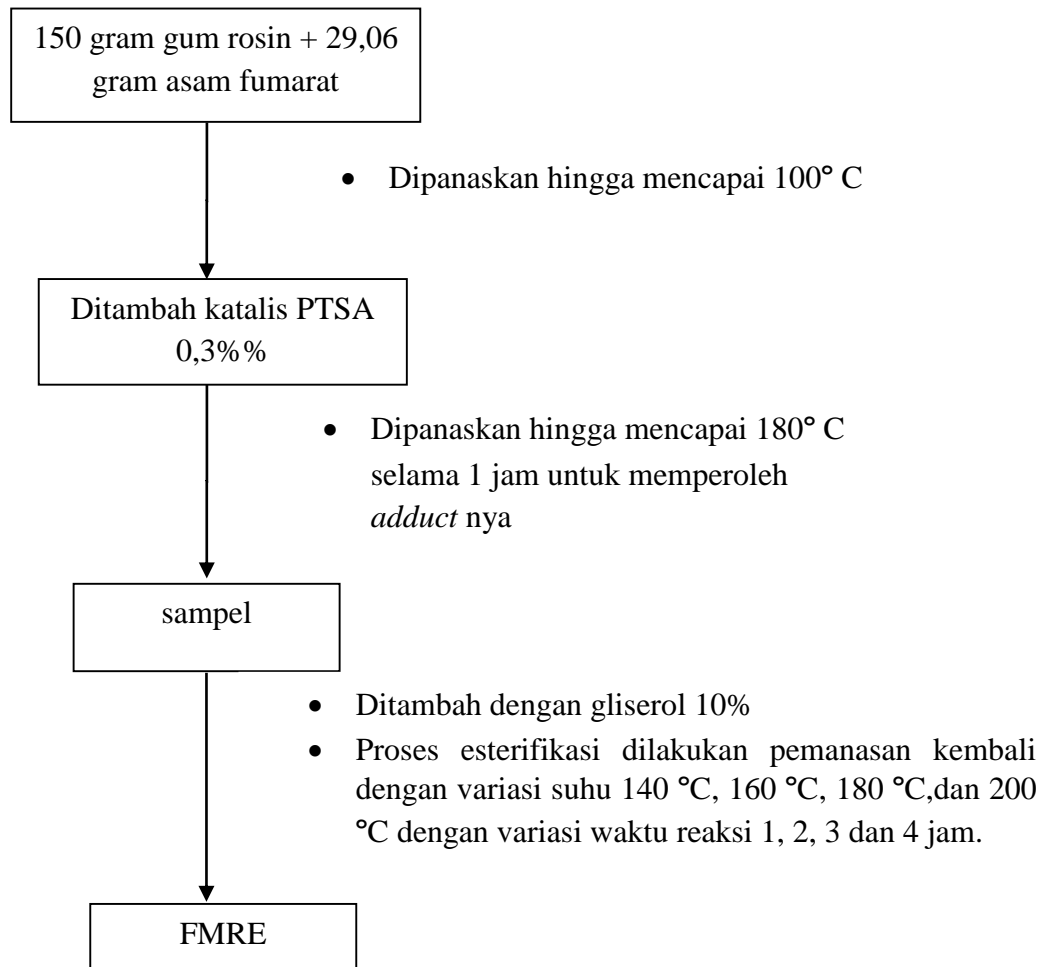
Suhu (°C)	Waktu reaksi (jam)	% luas area asam-asam resin	% area ester	<i>Yield</i> (%)
140	1	99.92	3,87	3,87
140	2	99.92	6,27	6,28
140	3	99.92	10,86	10,87
140	4	99.92	7,73	7,74
160	1	99.92	8.63	8,64
160	2	99.92	10,15	10,16
160	3	99.92	9,95	9,96
160	4	99.92	11,31	11,32
180	1	99.92	3,9	3,9
180	2	99.92	9,18	9,19
180	3	99.92	10,68	10,69
180	4	99.92	13,37	13,38
200	1	99.92	5,05	5,06
200	2	99.92	10,82	10,83
200	3	99.92	40,65	40,66
200	4	99.92	41,48	41,49

$$Yield = \frac{\text{Hasil Sintesis}}{\text{Hasil Teoritis}} \times 100\%$$

Lampiran 5.Diagram uji fisikokimia dan esterifikasi FMRE**Diagram uji bilangan Iod**

Uji Warna**Uji Bilangan Asam****Uji Titik Lunak**

Percobaan variasi suhu 140°C, 160°C, 180 °C dan 200°C dan variasi waktu reaksi 1, 2, 3 dan 4 jam



Lampiran 6. Analisa FT-IR

PerkinElmer Spectrum Version 10.4.00
Wednesday, November 27, 2019 1:28 PM

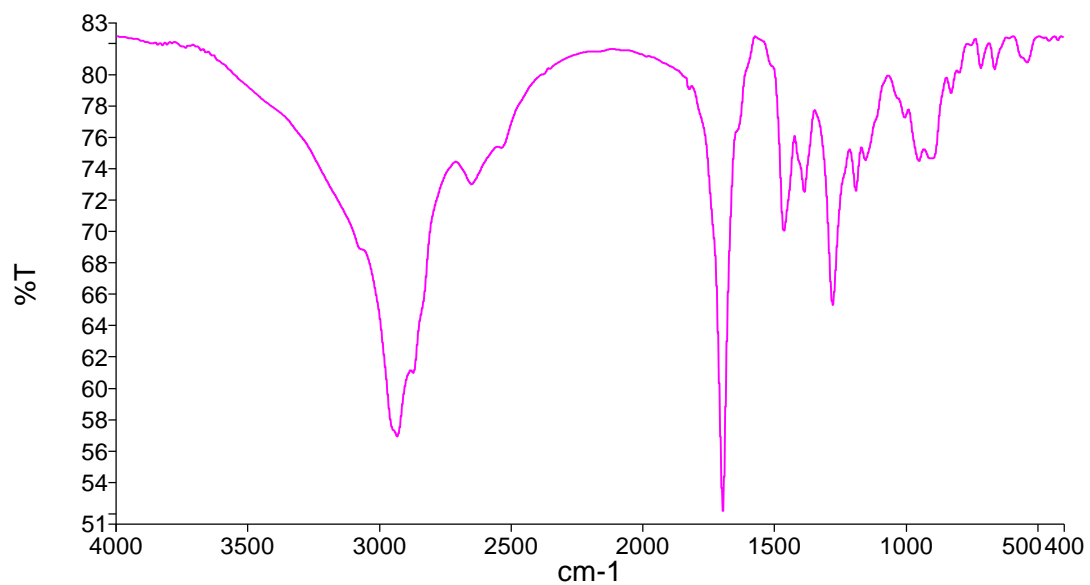
Report Details

Report Location C:\pel_data\reports\Samples View 2_naila 1_1_1.rtf
Report Creator Labkim
Report Date Wednesday, November 27, 2019 1:28 PM

Sample Details

Sample Name naila 1_1_1
Sample Description 200 10%
Analyst Labkim
Creation Date 11/27/2019 1:27:58 PM
X-Axis Units cm-1
Y-Axis Units %T

Spectrum



Name	Description
naila 1_1_1	200 10%

PerkinElmer Spectrum Version 10.4.00
Monday, January 13, 2020 3:38 PM

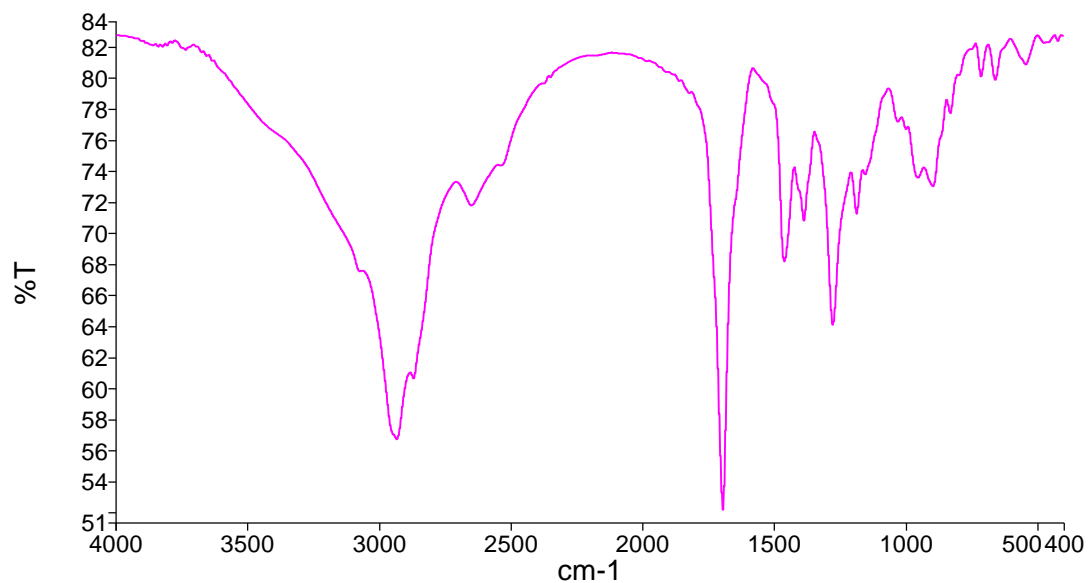
Report Details

Report Location C:\pel_data\reports\Samples View 2_naila_1_1.rtf
Report Creator Labkim
Report Date Monday, January 13, 2020 3:38 PM

Sample Details

Sample Name naila_1_1
Sample Description Gumrosin
Analyst Labkim
Creation Date 1/13/2020 3:38:35 PM
X-Axis Units cm-1
Y-Axis Units %T

Spectrum



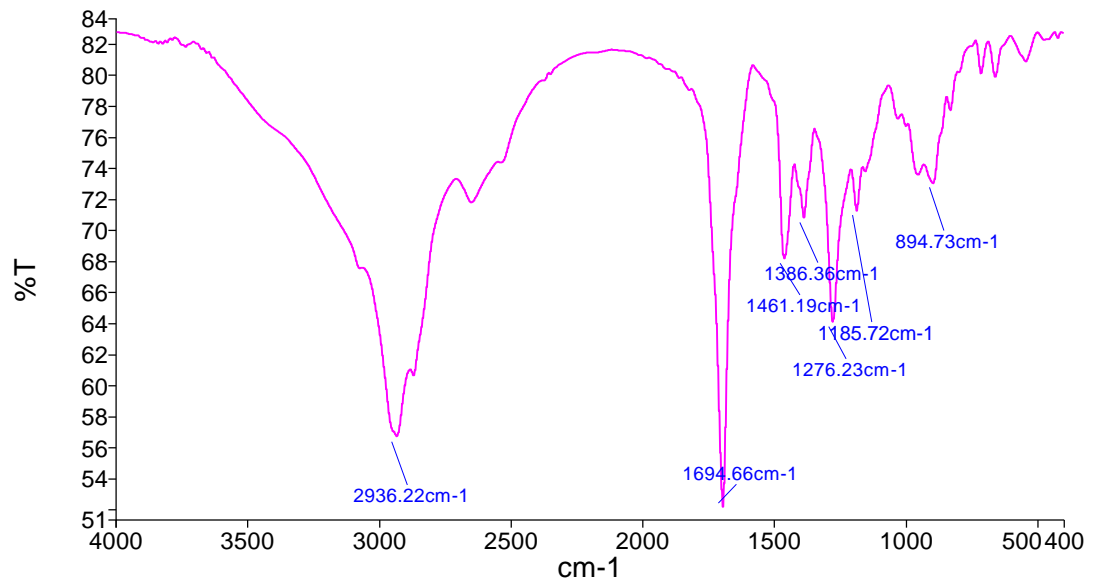
Name	Description
naila_1_1	Gumrosin

Report Details

Report Location C:\pel_data\reports\Samples View 2_naila_1_1_1.rtf
 Report Creator Labkim
 Report Date Monday, January 13, 2020 3:39 PM

Sample Details

Sample Name naila_1_1
 Sample Description Gumrosin
 Analyst Labkim
 Creation Date 1/13/2020 3:38:35 PM
 X-Axis Units cm-1
 Y-Axis Units %T

Spectrum

Name	Description
naila_1_1	Gumrosin

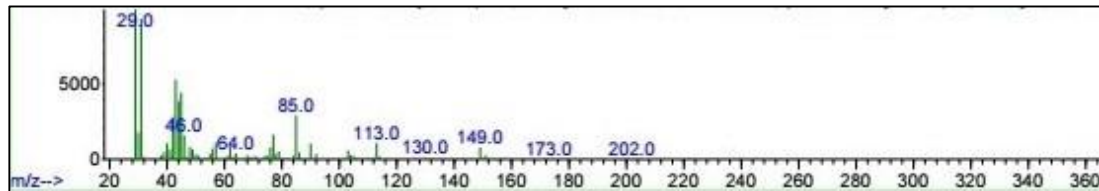
Peak Area/Height Results

Peak	X (cm-1)	Y (%T)	Area (%T)	Start	End	Base1
1	2936.22	56.72	-13932.67	4000	2118.68	4000
2	1694.66	52.14	-2637.12	2118.68	1580.65	2118.68
3	1461.19	68.23	-716.83	1580.65	1423.06	1580.65
4	1386.36	70.87	-77.93	1423.06	1346.08	1423.06
5	1276.23	64.14	-745.65	1346.08	1207.71	1346.08
6	1185.72	71.34	200.25	1207.71	1064.89	1207.71
7	894.73	73.11	152.39	1064.89	400	1064.89

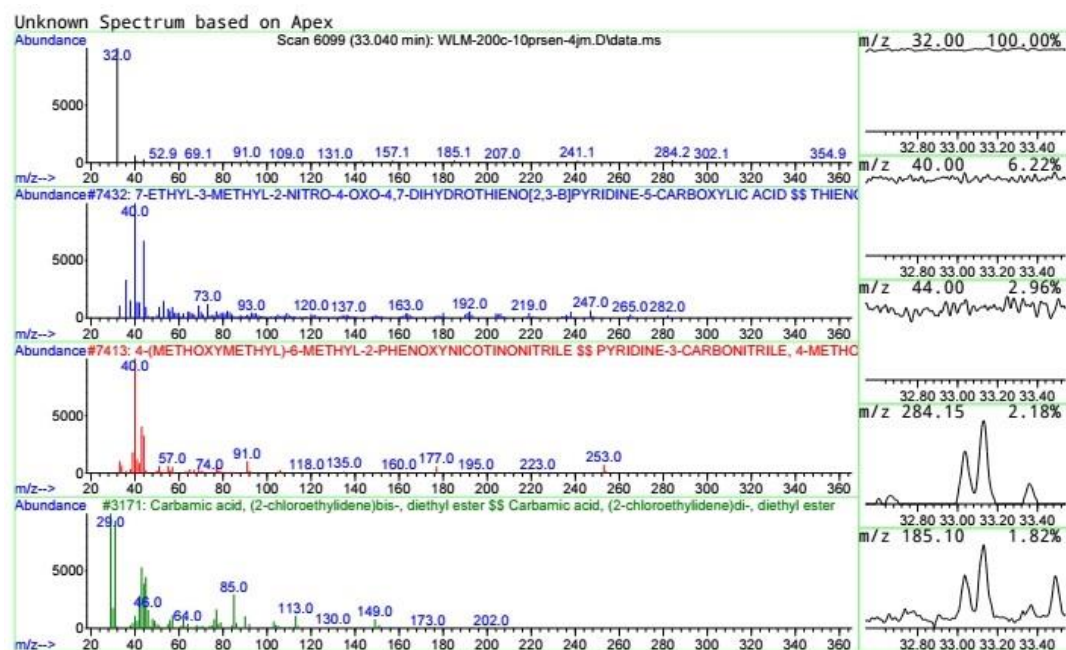
Lampiran 7. Analisis GCMS

Spektrum hasil analisa GCMS FMRE pada suhu 200 °C dan waktu reaksi 4 jam

Spektrum pada RT = 33,040 menit



Carbamic acid, (2-chloroethylidene), diethyl ester



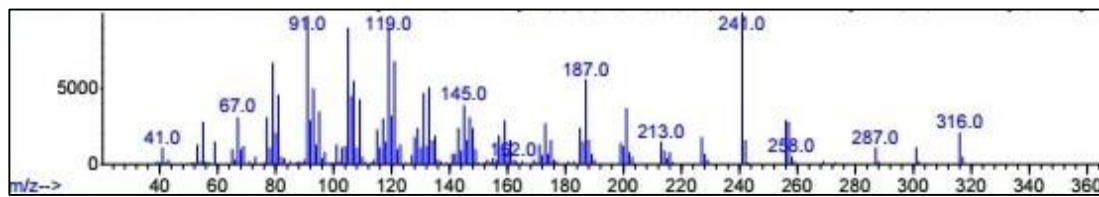
Data File: F:\DATA MS\daa\WLM-200c-10prsen-4jm.D

Sample :

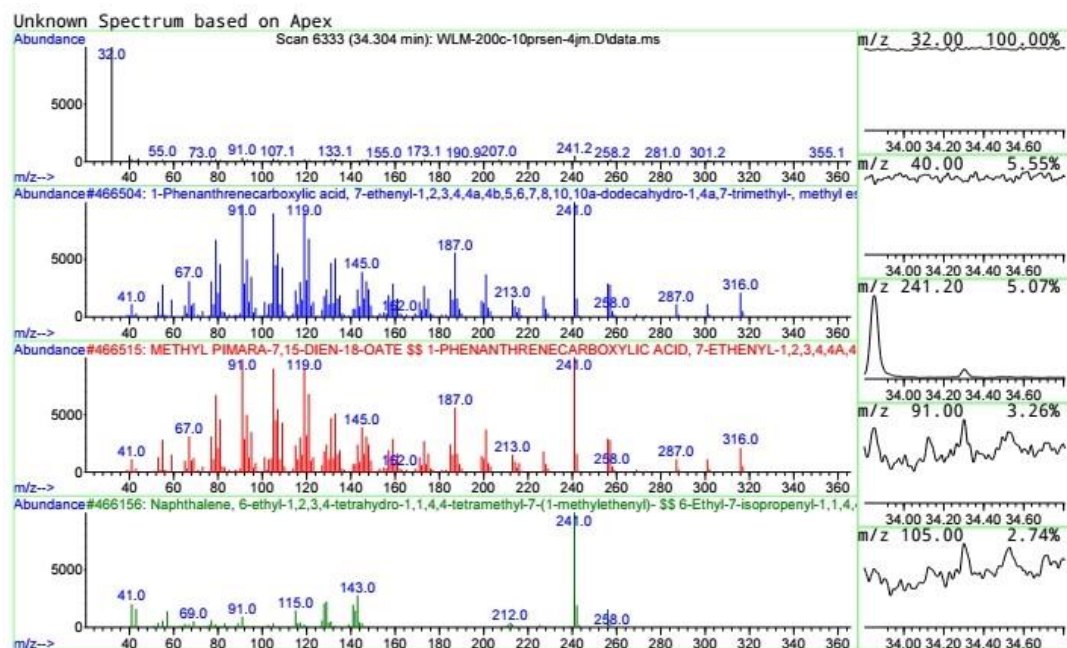
Peak Number: 30 at 33.040 min Area: 403729 Area % 0.02

The 3 best hits from each library.	Ref\#	CAS\#	Qual
D:\DATABASE\DEMO.L			
1 7-ETHYL-3-METHYL-2-NITRO-4-OXO-4...	7432	999007-43-3	10
2 4-(METHOXYMETHYL)-6-METHYL-2-PHE...	7413	332057-36-0	10
3 Carbamic acid, (2-chloroethylide...	3171	005336-13-0	9

Spektrum pada RT = 34, 304 menit



Isopimaric acid methyl ester

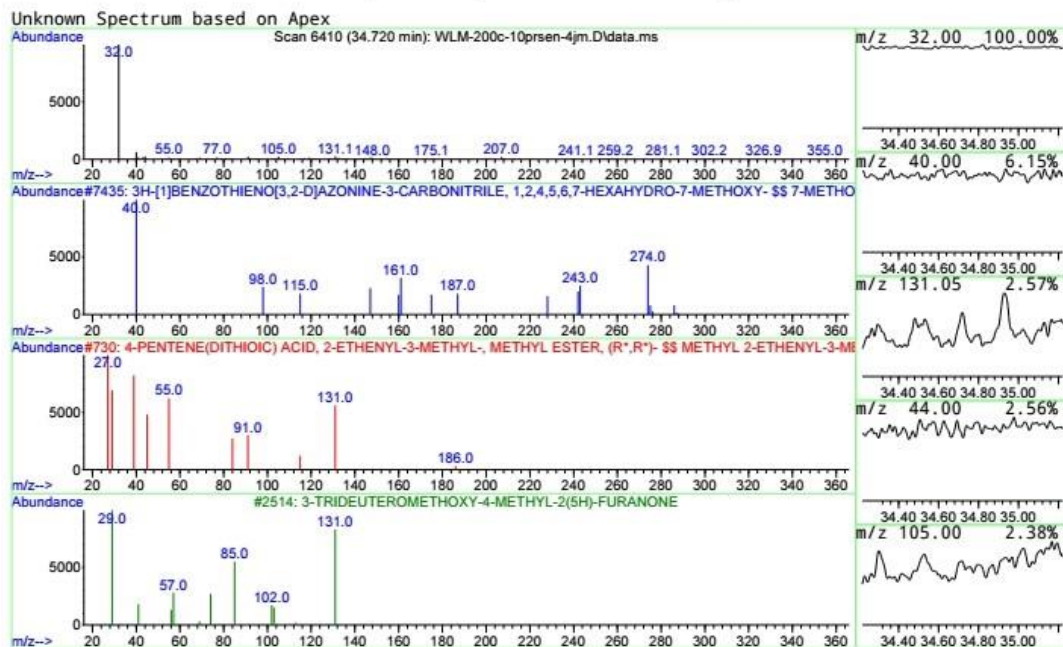


Data File: F:\DATA MS\data\WLM-200c-10prsen-4jm.D
Sample :

Peak Number: 38 at 34.304 min Area: 939413 Area % 0.04

The 3 best hits from each library.	Ref\#	CAS\#	Qual
D:\DATABASE\DEMO.L			
1 1-Phenanthrenecarboxylic acid, 7...	466504	001686-62-0	58
2 METHYL PIMARA-7,15-DIEN-18-OATE ...	466515	001686-62-0	58
3 Naphthalene, 6-ethyl-1,2,3,4-tet...	466156	301643-35-6	53

Spectrum pada RT = 34, 720 menit



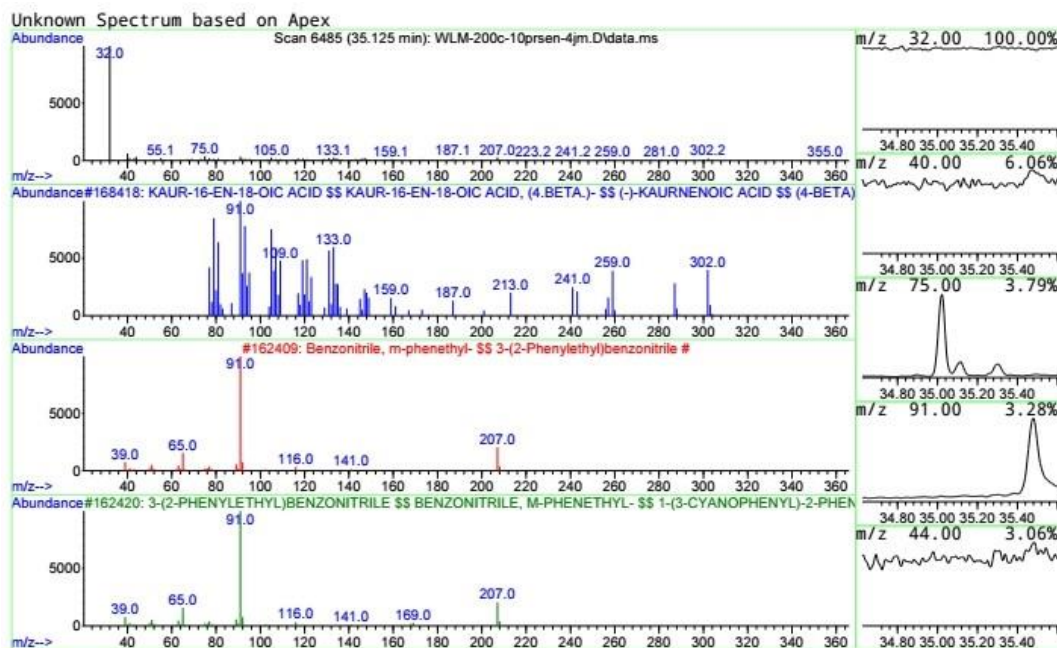
Data File: F:\DATA MS\daa\WLM-200c-10prsen-4jm.D
Sample :

Peak Number: 40 at 34.720 min Area: 413670 Area % 0.02

The 3 best hits from each library.	Ref\#	CAS\#	Qual

D:\DATABASE\DEMO.L			
1 3H-[1]BENZOTHIENO[3,2-D]AZONINE-...	7435	099659-20-8	9
2 4-PENTENE(DITHIOIC) ACID, 2-ETHE...	730	107094-82-6	5
3 3-TRIDEUTEROMETHOXY-4-METHYL-2(5...	2514	000000-00-0	4

Spectrum pada RT = 35, 125 menit



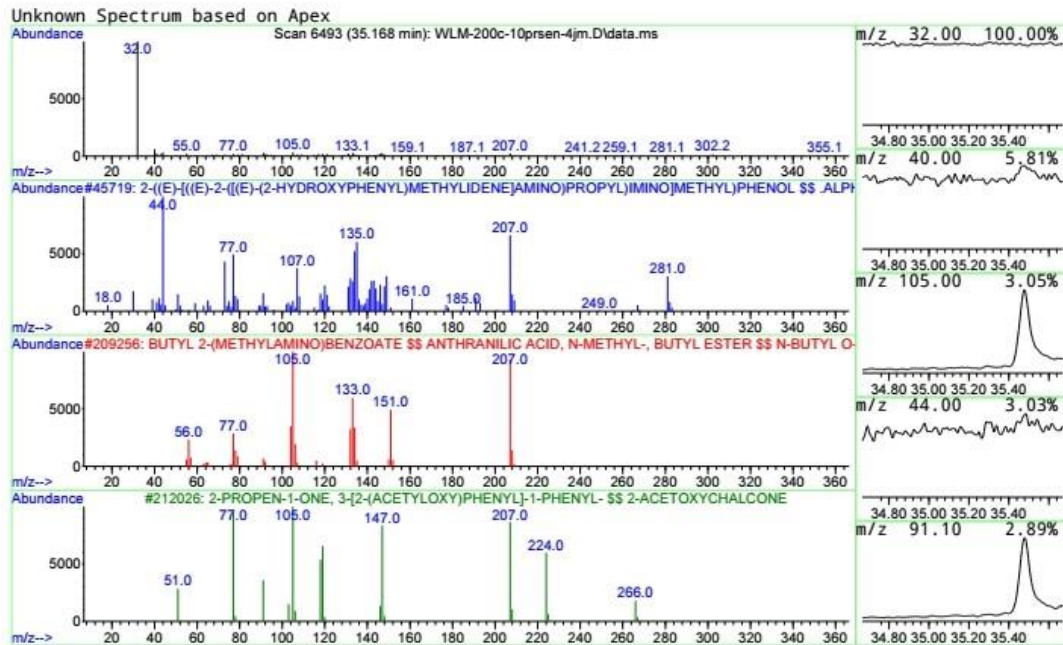
Data File: F:\DATA MS\daa\WLM-200c-10prsen-4jm.D
Sample :

Peak Number: 45 at 35.125 min Area: 619539 Area % 0.03

The 3 best hits from each library. Ref\# CAS\# Qual

	Ref\#	CAS\#	Qual
D:\DATABASE\DEMO.L			
1 KAUR-16-EN-18-OIC ACID \$\$ KAUR-1...	168418	020316-84-1	42
2 Benzonitrile, m-phenethyl- \$\$ 3-...	162409	034176-91-5	10
3 3-(2-PHENYLETHYL)BENZONITRILE \$\$...	162420	034176-91-5	10

Spectrum pada RT = 35,168 menit

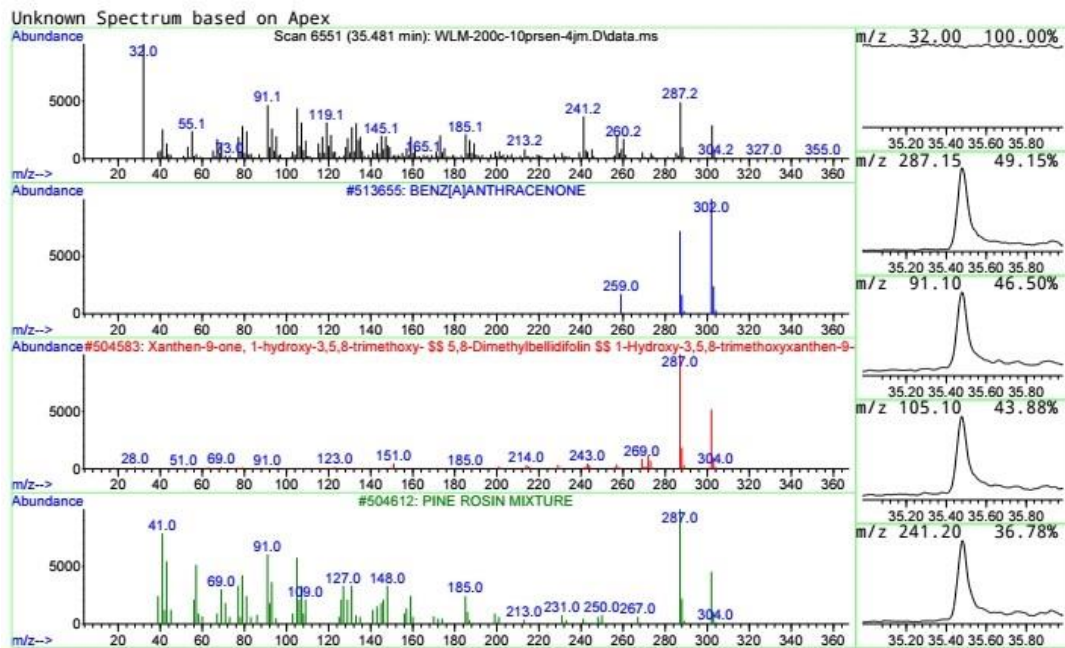


Data File: F:\DATA MS\daa\WLM-200c-10prsen-4jm.D
Sample :

Peak Number: 46 at 35.168 min Area: 626366 Area % 0.03

The 3 best hits from each library.	Ref\#	CAS\#	Qual
D:\DATABASE\DEMO.L			
1 2-((E)-[(E)-2-((E)-(2-HYDROXYP...	45719	000094-91-7	25
2 BUTYL 2-(METHYLAMINO)BENZOATE \$\$...	209256	015236-34-7	14
3 2-PROPEN-1-ONE, 3-[2-(ACETYLOXY)...	212026	033777-37-6	12

Spectrum pada RT = 35, 481 menit



Data File: F:\DATA MS\daa\WLM-200c-10prsen-4jm.D

Sample :

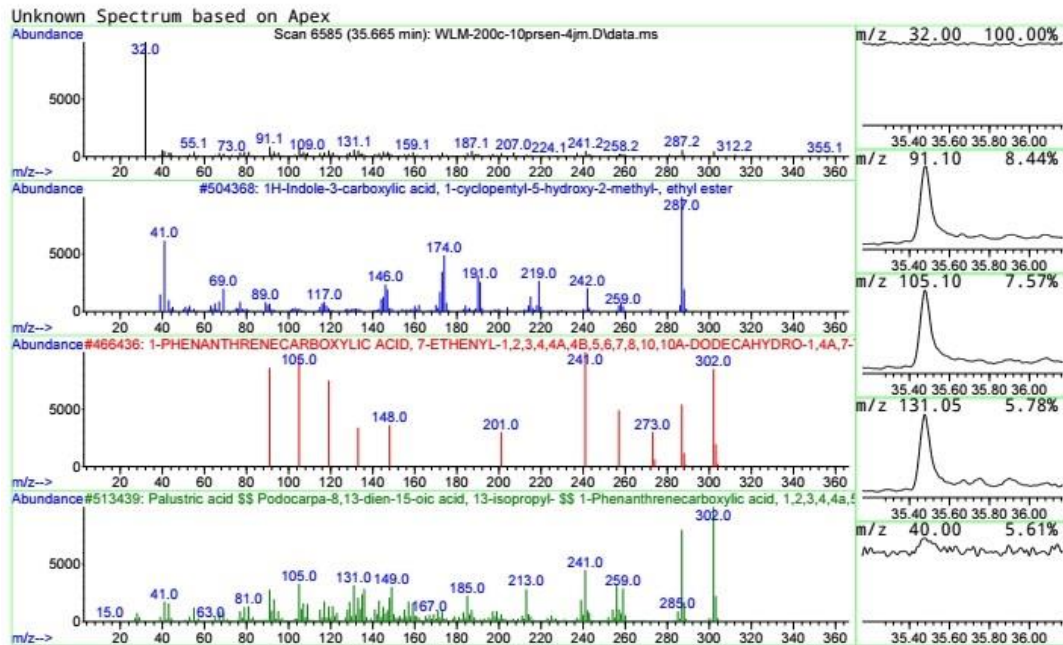
Peak Number: 49 at 35.481 min Area: 22888013 Area % 1.07

The 3 best hits from each library. Ref\# CAS# Qual

D:\DATABASE\DEMO.L

1	BENZ[A]ANTHRACENONE	513655	099707-96-7	83
2	Xanthen-9-one, 1-hydroxy-3,5,8-t...	504583	049599-09-9	48
3	PINE ROSIN MIXTURE	504612	000000-00-0	38

Spectrum pada RT = 35, 665 menit

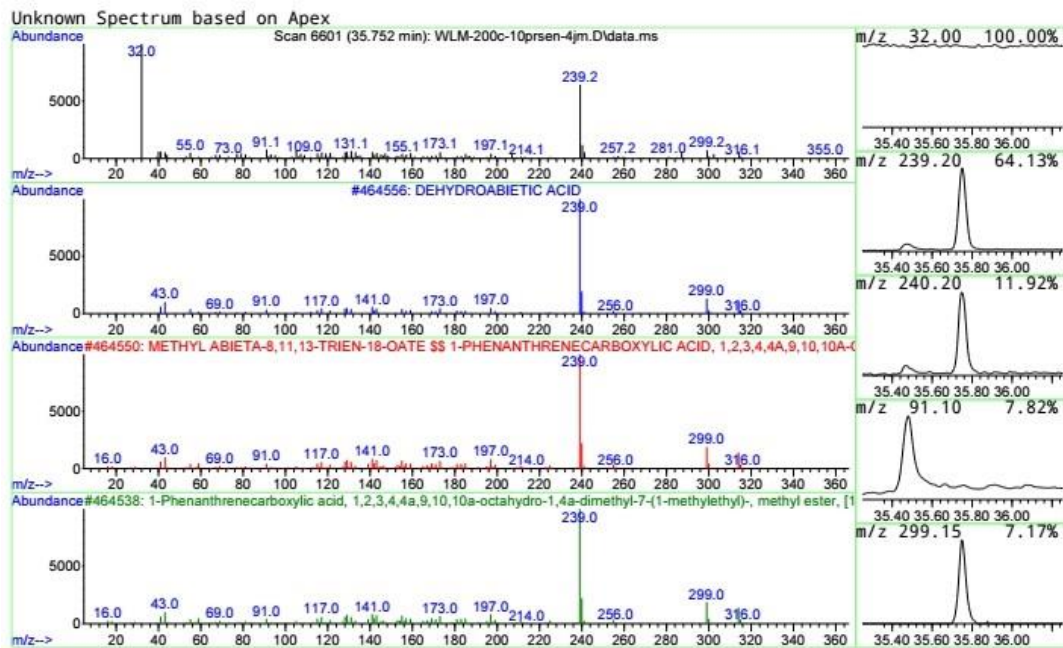


Data File: F:\DATA MS\daa\WLM-200c-10prsen-4jm.D
Sample :

Peak Number: 50 at 35.665 min Area: 3094709 Area % 0.14

The 3 best hits from each library.	Ref\#	CAS\#	Qual
D:\DATABASE\DEMO.L			
1 1H-Indole-3-carboxylic acid, 1-c...	504368	999504-38-0	43
2 1-PHENANTHRENECARBOXYLIC ACID, 7...	466436	005835-26-7	35
3 Palustric acid \$\$ Podocarpa-8,13...	513439	001945-53-5	35

Spectrum pada RT = 35, 752 menit



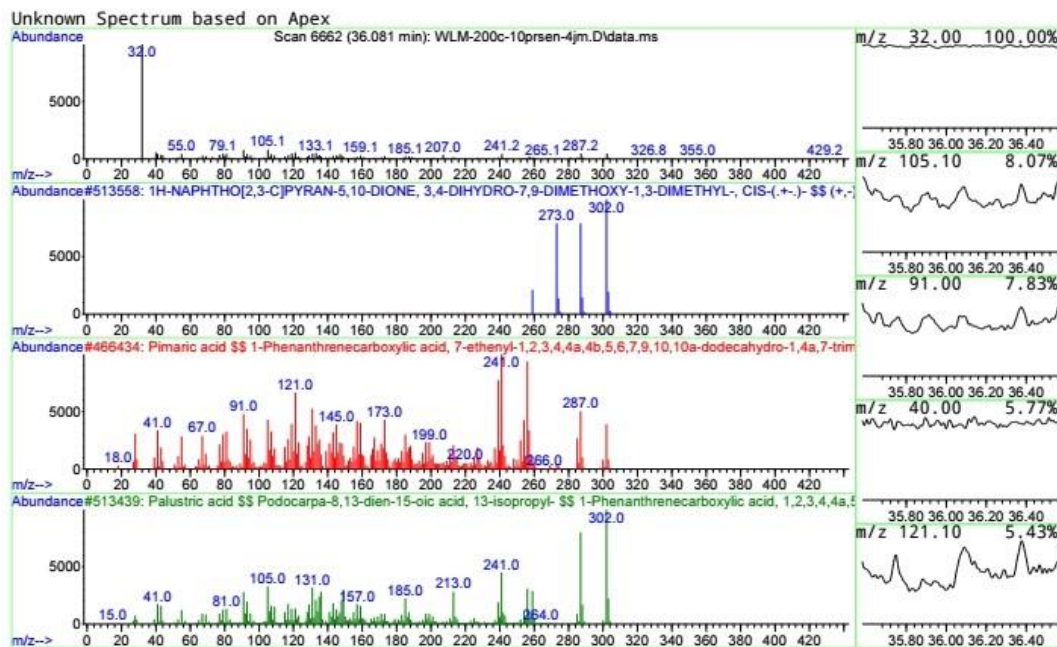
Data File: F:\DATA MS\data\WLM-200c-10prsen-4jm.D

Sample :

Peak Number: 51 at 35.752 min Area: 5514847 Area % 0.26

The 3 best hits from each library.	Ref\#	CAS\#	Qual
D:\DATABASE\DEMO.L			
1 DEHYDROABIETIC ACID	464556	000000-00-0	97
2 METHYL ABIETA-8,11,13-TRIEN-18-0...	464550	001235-74-1	96
3 1-Phenanthrenecarboxylic acid, 1...	464538	001235-74-1	96

Spectrum pada RT = 36, 081 menit



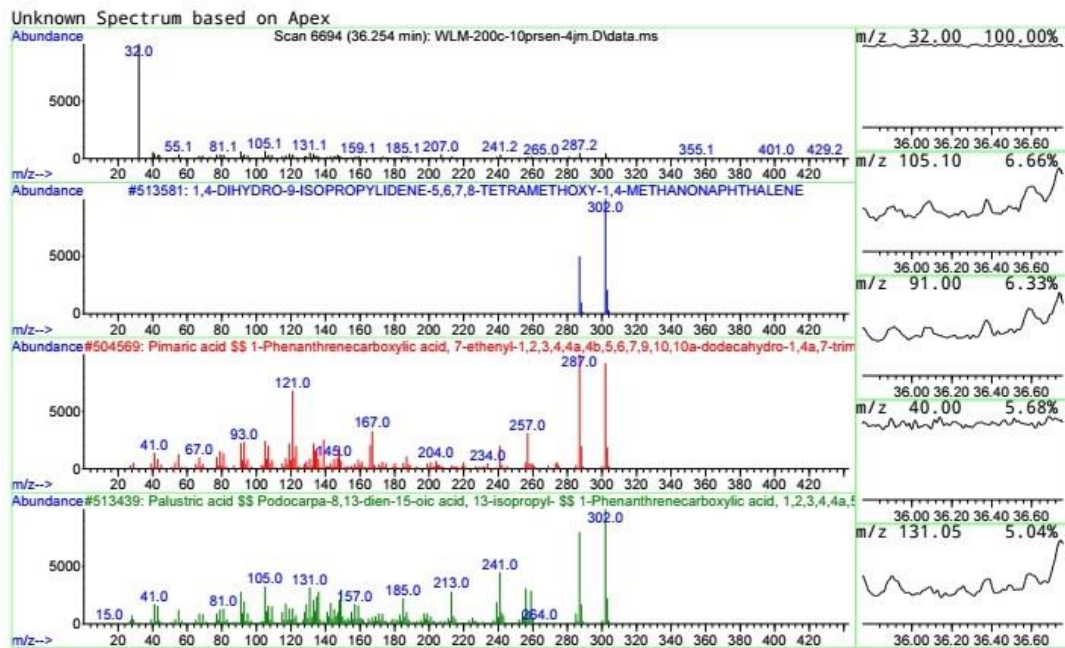
Data File: F:\DATA MS\daa\WLM-200c-10prsen-4jm.D

Sample :

Peak Number: 53 at 36.081 min Area: 5373039 Area % 0.25

The 3 best hits from each library.	Ref\#	CAS\#	Qual
D:\DATABASE\DEMO.L			
1 1H-NAPHTHO[2,3-C]PYRAN-5,10-DION...	513558	084018-43-9	91
2 Pimaric acid \$\$ 1-Phenanthreneca...	466434	000127-27-5	60
3 Palustric acid \$\$ Podocarpa-8,13...	513439	001945-53-5	49

Spektrum pada RT = 36, 254 menit



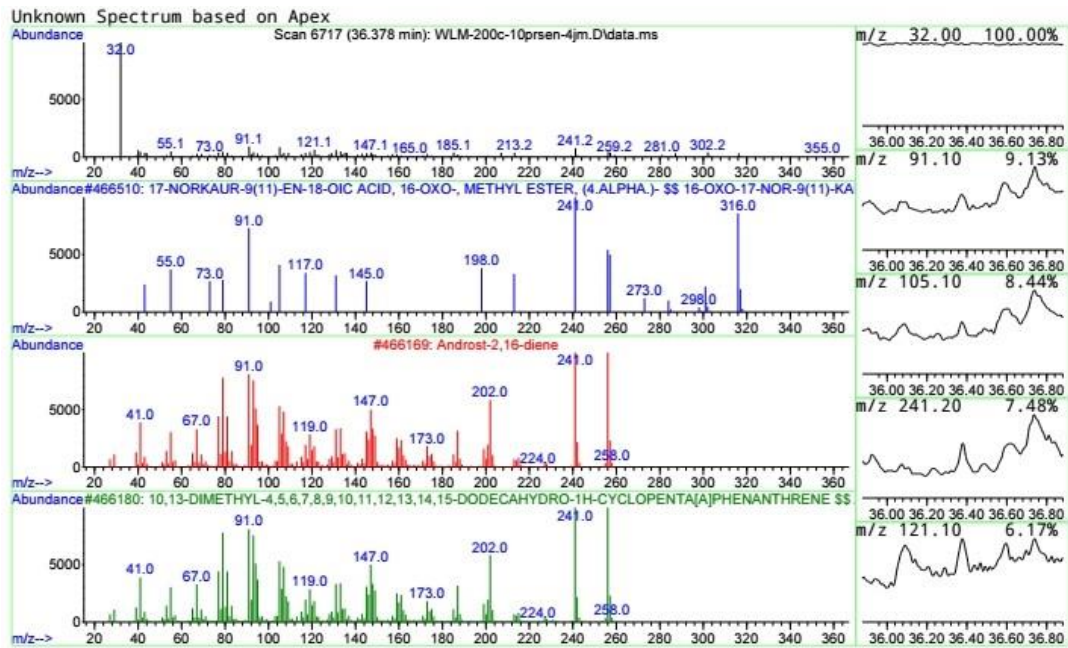
Data File: F:\DATA MS\data\WLM-200c-10prsen-4jm.D

Sample :

Peak Number: 54 at 36.254 min Area: 2798160 Area % 0.13

The 3 best hits from each library.			
	Ref\#	CAS\#	Qual
D:\DATABASE\DEMO.L			
1	513581	000000-00-0	90
2	504569	000127-27-5	55
3	513439	001945-53-5	46

Spectrum pada RT = 36, 378 menit

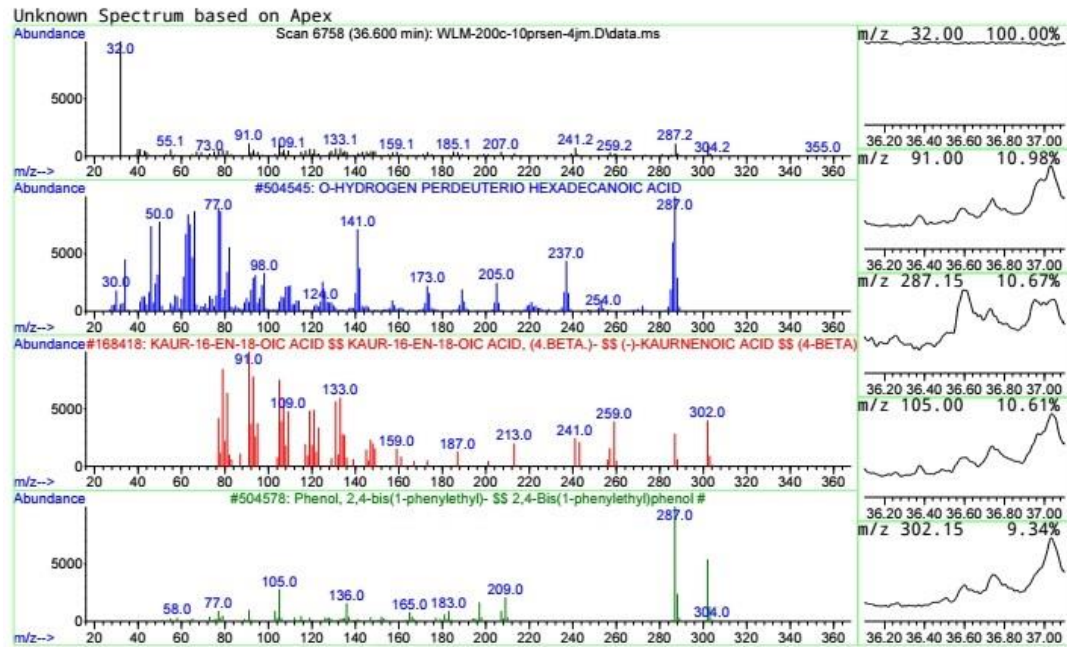


Data File: F:\DATA MS\daa\WLM-200c-10prsen-4jm.D
Sample :

Peak Number: 55 at 36.378 min Area: 3430231 Area % 0.16

The 3 best hits from each library.			Ref\#	CAS\#	Qual
D:\DATABASE\DEMO.L					
1	17-NORKAUR-9(11)-EN-18-OIC ACID,...	466510	063558-42-9	50	
2	Androst-2,16-diene	466169	999466-17-7	48	
3	10,13-DIMETHYL-4,5,6,7,8,9,10,11...	466180	999466-18-8	48	

Soectrum pada RT = 36,60 menit



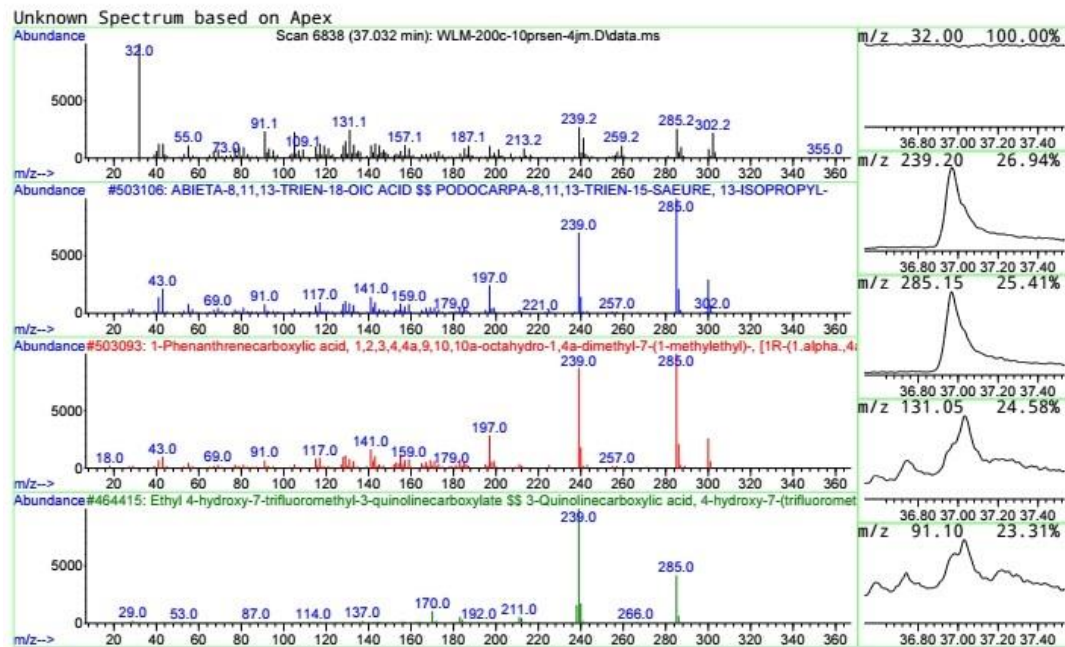
Data File: F:\DATA MS\daa\WLM-200c-10prsen-4jm.D

Sample :

Peak Number: 57 at 36.600 min Area: 6192380 Area % 0.29

The 3 best hits from each library.	Ref\#	CAS\#	Qual
D:\DATABASE\DEMO.L			
1 O-HYDROGEN PERDEUTERIO HEXADECAN...	504545	039756-30-4	90
2 KAUR-16-EN-18-OIC ACID \$\$ KAUR-1...	168418	020316-84-1	90
3 Phenol, 2,4-bis(1-phenylethyl)- ...	504578	002769-94-0	89

Spectrum pada RT = 37, 032 menit

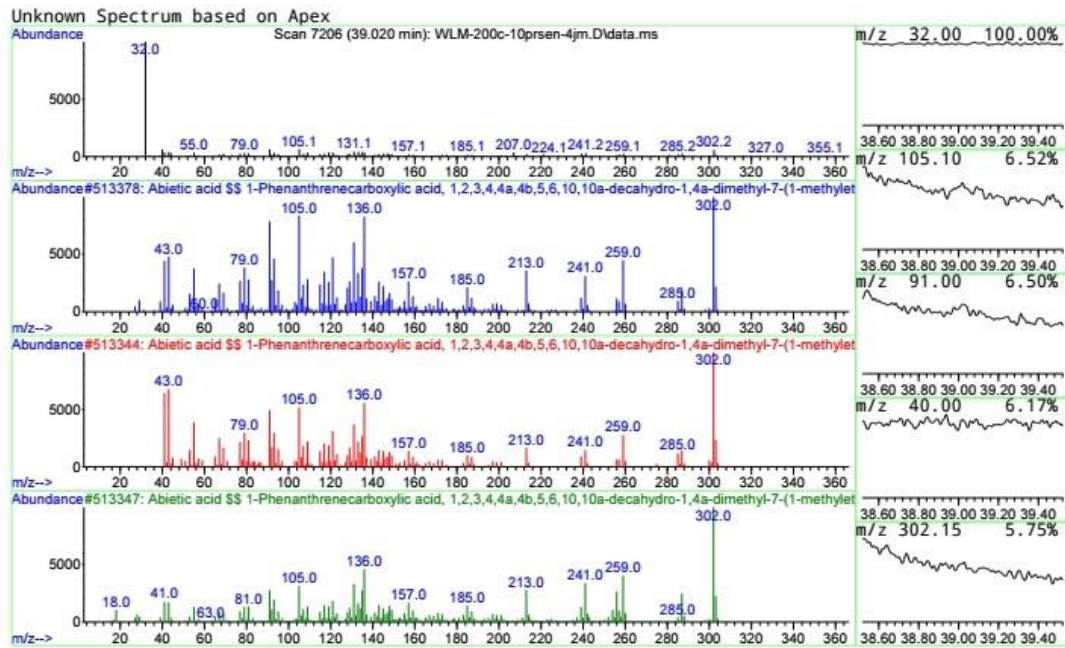


Data File: F:\DATA MS\daa\WLM-200c-10prsen-4jm.D
Sample :

Peak Number: 60 at 37.032 min Area: 16564925 Area % 0.77

The 3 best hits from each library.	Ref\#	CAS\#	Qual
D:\DATABASE\DEMO.L			
1 ABIETA-8,11,13-TRIEN-18-OIC ACID...	503106	999503-11-8	94
2 1-Phenanthrenecarboxylic acid, 1...	503093	001740-19-8	83
3 Ethyl 4-hydroxy-7-trifluoromethyl...	464415	000391-02-6	72

Spectra pada RT = 39,020 menit



Data File: F:\DATA MS\daa\WLM-200c-10prsen-4jm.D

Sample :

Peak Number: 64 at 39.020 min Area: 1220560 Area % 0.06

The 3 best hits from each library.			Ref\#	CAS\#	Qual
D:\DATABASE\DEMO.L					
1	Abietic acid \$\$ 1-Phenanthrene...	513378	000514-10-3	84	
2	Abietic acid \$\$ 1-Phenanthrene...	513344	000514-10-3	80	
3	Abietic acid \$\$ 1-Phenanthrene...	513347	000514-10-3	70	

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsen-140c-1jm.D
 Acq On : 10 Oct 2019 13:01
 Operator :
 Sample :
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

#	RT	Area%	Library/ID	Ref#	CAS#	Qual
1	1.962	2.74	D:\DATABASE\DEMO.L METHANOL \$\$ HYDROXYMETHANE \$\$ ALCO HOL, METHYL \$\$ ALCOOL METHYLIQUE Methyl Alcohol \$\$ Methanol \$\$ Carb inol \$\$ Methyl hydroxide METHANOL \$\$ HYDROXYMETHANE \$\$ ALCO HOL, METHYL \$\$ BIHLESKI'S SOLUTION	5075 5072 5080	000067-56-1 000067-56-1 000067-56-1	2 2 2
2	2.135	0.11	D:\DATABASE\DEMO.L Pentane, 2,4-dimethyl- \$\$ 2,4-Dime thylpentane Pentane, 2,4-dimethyl- \$\$ 2,4-Dime thylpentane Pentane, 2,4-dimethyl- \$\$ 2,4-Dime thylpentane	18753 18799 18750	000108-08-7 000108-08-7 000108-08-7	91 90 87
3	2.205	11.14	D:\DATABASE\DEMO.L HEXANE, 3-METHYL- \$\$ 3-METHYLHEXAN E \$\$ 2-ETHYLPENTANE \$\$ HEXANE, 3-M ETHYL Hexane, 3-methyl- \$\$ 2-Ethylpentan e \$\$ 3-Methylhexane HEXANE, 3-METHYL- \$\$ 3-METHYLHEXAN E \$\$ 2-ETHYLPENTANE \$\$ HEXANE, 3-M ETHYL	18994 18811 18824	000589-34-4 000589-34-4 000589-34-4	83 80 64
4	2.243	4.43	D:\DATABASE\DEMO.L 1,3-DIMETHYLCYCLOPENTANE \$\$ CYCLOP ENTANE, 1,3-DIMETHYL-, CIS- \$\$ 1,3 -DIMETHYLCYCLOPENTANE (CIS) \$\$ 1,3 -DIMETHYLCYCLOPENTANE CIS Cyclopentane, 1,3-dimethyl- \$\$ 1,3 -Dimethylcyclopentane Cyclopentane, 1,3-dimethyl-, cis- \$\$ cis-1,3-Dimethylcyclopentane \$\$ 1,3-Dimethylcyclopentane cis \$\$ 1 ,3-Dimethylcyclopentane #	62286 101343 62231	002532-58-3 002453-00-1 002532-58-3	91 91 91
5	2.335	6.98	D:\DATABASE\DEMO.L CYCLOHEXANE, METHYL- \$\$ METHYLCYCL OHEXANE \$\$ 1-METHYLCYCLOHEXANE \$\$ CYCLOHEXANE, METHYL CYCLOHEXANE, METHYL- \$\$ METHYLCYCL OHEXANE \$\$ 1-METHYLCYCLOHEXANE \$\$ CYCLOHEXANE, METHYL CYCLOHEXANE, METHYL- \$\$ METHYLCYCL OHEXANE \$\$ 1-METHYLCYCLOHEXANE \$\$ CYCLOHEXANE, METHYL	141469 141470 141467	000108-87-2 000108-87-2 000108-87-2	96 95 94
6	2.421	69.76	D:\DATABASE\DEMO.L BENZENE, METHYL- \$\$ METHYLBENZENE \$\$ TOLUENE \$\$ AMFISAL 1A Toluene \$\$ Benzene, methyl \$\$ Meth acide \$\$ Methylbenzene Toluene \$\$ Benzene, methyl \$\$ Meth acide \$\$ Methylbenzene	158622 158580 158579	000108-88-3 000108-88-3 000108-88-3	91 91 90
7	2.745	0.95	D:\DATABASE\DEMO.L CYCLOHEXANE, ETHYL- \$\$ ETHYLCYCLOH	141562	001678-91-7	76

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsen-140c-1jm.D
 Acq On : 10 Oct 2019 13:01
 Operator :
 Sample :
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

%#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			HEXANE §§ ETHYL CYCLOHEXANE §§ ETHYL LCYCLOHEXAN			
			CYCLOHEXANE, ETHYL- §§ ETHYLCYCLOH	141561	001678-91-7	76
			HEXANE §§ ETHYL CYCLOHEXANE §§ ETHYL LCYCLOHEXAN			
			ETHYLCYCLOHEXANE §§ ETHYLCYCLOHEXA	54425	001678-91-7	76
8	34.541	0.14	D:\DATABASE\DEMO.L			
			CIS-TRICYCLO[7.5.0.0(2,8)]TETRADEC	161352	000000-00-0	30
			A-7,9-DIENE			
			1,1'-BI(SPIRO[2.5]OCTYLIDENE	162904	000000-00-0	30
			Naphthalene, 1-butyl-1,2,3,4-tetra	283065	029138-93-0	25
			hydro-4-pentyl- §§ 1-Butyl-4-penty 1-1,2,3,4-tetrahydronaphthalene #			
9	35.470	0.12	D:\DATABASE\DEMO.L			
			Chromium, carbonyl-(.eta.-4-1,3-bu tadiene) (.eta.-5-pentamethylcyclop entadienyl)-	398828	999398-83-2	35
			KAUR-16-EN-18-OIC ACID §§ KAUR-16- EN-18-OIC ACID, (4.BETA.)- §§ (-)- KAURNEOIC ACID §§ (4-BETA)-KAUR-1 6-EN-18-OIC ACID	168418	020316-84-1	30
			CADMIUM[II] BIS(DIBUTYLDITHIOPHOSP HATE)	283924	043159-11-1	22
10	35.757	0.06	D:\DATABASE\DEMO.L			
			DEHYDROABIETIC ACID	464556	000000-00-0	98
			METHYL ABIETATE-8,11,13-TRIEN-18-OAT E §§ 1-PHENANTHRENECARBOXYLIC ACID . 1,2,3,4,4A,9,10,10A-OCTAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, ME THYL ESTER, [1R-(1.ALPHA.,4A.BETA. .10A.ALPHA.)]- §§ DEHYDROABIETIC A CID METHYL ESTER §§ METHYL DEHYDRO ABIETATE	464549	001235-74-1	95
			1-Phenanthrenecarboxylic acid, 1,2 .3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, methyl ester, [1R-(1.alpha.,4a.beta.,10a. alpha.)]- §§ Podocarpa-8,11,13-tri en-15-oic acid, 13-isopropyl-, met hyl ester §§ Methyl dehydroabietat	464538	001235-74-1	95
11	36.092	0.21	D:\DATABASE\DEMO.L			
			PIMARA-8(14),15-DIEN-18-OIC ACID § § 1-PHENANTHRENECARBOXYLIC ACID, 7 -ETHENYL-1,2,3,4,4A,4B,5,6,7,9,10, 10A-DODECAHYDRO-1,4A,7-TRIMETHYL-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA., 7.BETA.,10A.ALPHA.)]- §§ (+)-PIMAR IC ACID §§ .ALPHA.-PIMARIC ACID	504608	000127-27-5	70
			KAUR-16-EN-18-OIC ACID §§ KAUR-16- EN-18-OIC ACID, (4.BETA.)- §§ (-)- KAURNEOIC ACID §§ (4-BETA)-KAUR-1 6-EN-18-OIC ACID	168418	020316-84-1	53
			(4-Ethylphenyl)-(2-methylbenzo[4,5 imidazo[1,2-a]pyrimidin-4-yl)ami na	504586	999504-59-8	50

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsn-140c-1jm.D
 Acq On : 10 Oct 2019 13:01
 Operator :
 Sample :
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

#	RT	Area%	Library/ID	Ref#	CAS#	Qual
2	36.383	0.08	D:\DATABASE\DEMO.L METHYL ABIETA-7,13-DIEN-18-OATE §§ 1-PHENANTHRENECARBOXYLIC ACID, 1, 2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, M ETHYL ESTER, [1R-(1.ALPHA.,4A.BETA ,4B.ALPHA.,10A.ALPHA.)]- §§ ABALY N §§ ABIETIC ACID METHYL ESTER	480551	000127-25-3	99
			METHYL ABIETA-7,13-DIEN-18-OATE §§ 1-PHENANTHRENECARBOXYLIC ACID, 1, 2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, M ETHYL ESTER, [1R-(1.ALPHA.,4A.BETA ,4B.ALPHA.,10A.ALPHA.)]- §§ ABALY N §§ ABIETIC ACID METHYL ESTER	258918	000127-25-3	99
			Methyl abietate §§ 1-Phenanthrenec arboxylic acid, 1,2,3,4,4a,4b,5,6, 10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, methyl ester, [1R -(1.alpha.,4a.beta.,4b.alpha.,10a. alpha.)]- §§ Podocarpa-7,13-dien-1 5-oic acid, 13-isopropyl-, methyl ester §§ Abalyn	258889	000127-25-3	99
3	36.594	0.62	D:\DATABASE\DEMO.L 1-PHENANTHRENECARBOXYLIC ACID, 7-E THENYL-1,2,3,4,4A,4B,5,6,7,8,10,10 A-DODECAHYDRO-1,4A,7-TRIMETHYL-, [1 R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,7. ALPHA.,10A.ALPHA.)]- §§ ISOPIMARIC ACID §§ PODOCARP-7-EN-15-OIC ACID , 13.BETA.-METHYL-13-VINYL- KAUR-16-EN-18-OIC ACID §§ KAUR-16- EN-18-OIC ACID, (4.BETA.)- §§ (-)- KAURIBENOIC ACID §§ (4-BETA)-KAUR-1 6-EN-18-OIC ACID	466436	005835-26-7	91
			4-Androsten-6.beta.-ol-3,17-dione	513437	999513-45-0	59
4	36.950	0.31	D:\DATABASE\DEMO.L 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,9,10,10A-OCTAHYDRO-1,4A-DI METHYL-7-(1-METHYLETHYL)-, [1R-(1. ALPHA.,4A.BETA.,10A.ALPHA.)]- §§ (-)-DEHYDROABIETIC ACID §§ 1,2,3,4, 4A,9,10,10A-OCTAHYDRO-1,4A-DIMETHY L-7-(1-METHYLETHYL)-1-PHENANTHRENE CARBOXYLIC ACID	503110	001740-19-8	90
			1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, [1R-(1. alpha.,4a.beta.,10a.alpha.)]- §§ P odocarpa-8,11,13-trien-15-oic acid , 13-isopropyl- §§ Abieta-8,11,13- trien-18-oic acid §§ Abietic acid, dehydro-	503093	001740-19-8	90
			1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, [1R-(1.	503081	001740-19-8	89

Library Search Report

ata Path : F:\DATA MS\daa\
 ata File : WLM-10prsen-140c-1jm.D
 acq On : 10 Oct 2019 13:01
 operator :
 sample :
 isc :
 LS Vial : 4 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

RT	Area%	Library/ID	Ref#	CAS#	Qual
		alpha.,4a.beta.,10a.alpha.))- \$\$ P odocarpa-8,11,13-trien-15-oic acid , 13-isopropyl- \$\$ Abieta-8,11,13- trien-18-oic acid \$\$ Abietic acid, dehydro-			
37.204	0.02	D:\DATABASE\DEMO.L 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, [1S-(1. alpha.,4a.alpha.,10a.beta.))- \$\$ P odocarpa-8,11,13-trien-16-oic acid , 13-isopropyl- \$\$ Callitricic aci d \$\$ 4-Epiabietic acid, dehydro- ABIETA-8,11,13-TRIEN-18-OIC ACID \$ 503112 005155-70-4 91 \$ 1-PHENANTHRENECARBOXYLIC ACID, 1 ,2,3,4,4A,9,10,10A-OCTAHYDRO-1,4A- DIMETHYL-7-(1-METHYLETHYL)-, [1S-(1.ALPHA.,4A.ALPHA.,10A.BETA.))- \$\$ 13-ISOPROPYLPODOCARPA-8,11,13-TRI EN-16-OIC ACID \$\$ 4-EPABIETIC ACI D, DEHYDRO- ABIETA-7,13-DIEN-18-OIC ACID \$\$ 1- 168419 000514-10-3 70 PHENANTHRENECARBOXYLIC ACID, 1,2,3 ,4,4A,4B,5,6,10,10A-DECAHYDRO- \$\$ 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, [1 R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A .ALPHA.))-			
37.312	0.02	D:\DATABASE\DEMO.L ABIETA-7,13-DIEN-18-OIC ACID \$\$ 1- 168420 000514-10-3 86 PHENANTHRENECARBOXYLIC ACID, 1,2,3 ,4,4A,4B,5,6,10,10A-DECAHYDRO- \$\$ 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, [1 R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A .ALPHA.))- Palustric acid \$\$ Podocarpa-8,13-d 513439 001945-53-5 56 ien-15-oic acid, 13-isopropyl- \$\$ 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,5,6,9,10,10a-decahydro-1,4 a-dimethyl-7-(1-methylethyl)-, [1R -(1.alpha.,4a.beta.,10a.alpha.))- \$\$ 8,13-Abietadien-18-oic acid 1-PHENANTHRENECARBOXYLIC ACID, 7-E 466436 005835-26-7 55 THENYL-1,2,3,4,4A,4B,5,6,7,8,10,10 A-DODECAHYDRO-1,4A,7-TRIMETHYL-, [1 R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,7. ALPHA.,10A.ALPHA.))- \$\$ ISOPIMARIC ACID \$\$ PODOCARP-7-EN-15-OIC ACID , 13.BETA.-METHYL-13-VINYL-			
37.350	0.00	D:\DATABASE\DEMO.L ABIETA-7,13-DIEN-18-OIC ACID \$\$ 1- 168420 000514-10-3 90 PHENANTHRENECARBOXYLIC ACID, 1,2,3 ,4,4A,4B,5,6,10,10A-DECAHYDRO- \$\$			

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsn-140c-1jm.D
 Acq On : 10 Oct 2019 13:01
 Operator :
 Sample :
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A.ALPHA.)]-			
			Palustric acid §§ Podocarpa-8,13-dien-15-oic acid, 13-isopropyl-	513439	001945-53-5	86
			1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,5,6,9,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,10a.alpha.)]-			
			§§ 8,13-Abietadien-18-oic acid	168419	000514-10-3	83
			ABIETA-7,13-DIEN-18-OIC ACID §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-			
			§§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A.ALPHA.)]-			
18	37.696	2.19	D:\DATABASE\DEMO.L			
			Abietic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]-	513378	000514-10-3	99
			§§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- §§ L-abietic acid			
			Abietic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]-	513344	000514-10-3	95
			§§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- §§ L-abietic acid			
			Abietic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]-	513347	000514-10-3	91
			§§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- §§ L-abietic acid			
19	39.003	0.11	D:\DATABASE\DEMO.L			
			.beta.-Pimaric acid §§ .delta.6,8(14)-Abietadienoic acid §§ 1-Pimaric acid §§ 1-Sapietic acid	513374	000079-54-9	64
			Abietic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]-	513347	000514-10-3	64
			§§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- §§ L-abietic acid			
			Abietic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.	513344	000514-10-3	55

Data Path : F:\DATA MS\daa\
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Sample :
Misc :
ALS Vial : 4 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			a.,4b.alpha.,10a.alpha.)]- \$\$ Podoc			
			carpa-7,13-dien-15-oic acid, 13-is			
			opropyl- \$\$ L-abiatic acid			

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsen-140c-2jm.D
 Acq On : 12 Oct 2019 9:38
 Operator :
 Sample :
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

k#	RT	Area%	Library/ID	Ref#	CAS#	Qual
1	1.962	4.82	D:\DATABASE\DEMO.L Methyl Alcohol \$\$ Methanol \$\$ Carb inol \$\$ Methyl hydroxide METHANOL \$\$ HYDROXYMETHANE \$\$ ALCO HOL, METHYL \$\$ ALCOOL METHYLIQUE Methyl Alcohol \$\$ Methanol \$\$ Carb inol \$\$ Methyl hydroxide	5073	000067-56-1	2
				5075	000067-56-1	2
				5072	000067-56-1	2
2	2.135	0.14	D:\DATABASE\DEMO.L Pentane, 2,4-dimethyl- \$\$ 2,4-Dime thylpentane PENTANE, 2,4-DIMETHYL- \$\$ 2,4-DIME THYLPENTANE \$\$ PENTANE, 2,4-DIMETH YL PENTANE, 2,4-DIMETHYL- \$\$ 2,4-DIME THYLPENTANE \$\$ PENTANE, 2,4-DIMETH YL	18753	000108-08-7	90
				18833	000108-08-7	80
				19002	000108-08-7	80
3	2.205	10.92	D:\DATABASE\DEMO.L HEXANE, 3-METHYL- \$\$ 3-METHYLHEXAN E \$\$ 2-ETHYLPENTANE \$\$ HEXANE, 3-M ETHYL Hexane, 3-methyl- \$\$ 2-Ethylpentan e \$\$ 3-Methylhexane Hexane, 3-methyl- \$\$ 2-Ethylpentan e \$\$ 3-Methylhexane	18994	000589-34-4	87
				18811	000589-34-4	80
				18743	000589-34-4	64
4	2.243	4.25	D:\DATABASE\DEMO.L 1,3-DIMETHYLCYCLOPENTANE \$\$ CYCLOP ENTANE, 1,3-DIMETHYL-, CIS- \$\$ 1,3 -DIMETHYLCYCLOPENTANE (CIS) \$\$ 1,3 -DIMETHYLCYCLOPENTANE CIS Cyclopentane, 1,3-dimethyl-, cis- \$\$ cis-1,3-Dimethylcyclopentane \$\$ 1,3-Dimethylcyclopentane cis \$\$ 1 ,3-Dimethylcyclopentane # Cyclopentane, 1,3-dimethyl- \$\$ 1,3 -Dimethylcyclopentane	62286	002532-58-3	91
				62231	002532-58-3	91
				101343	002453-00-1	91
5	2.335	6.48	D:\DATABASE\DEMO.L CYCLOHEXANE, METHYL- \$\$ METHYLCYCL OHEXANE \$\$ 1-METHYLCYCLOHEXANE \$\$ CYCLOHEXANE, METHYL Cyclohexane, methyl- \$\$ Cyclohexyl methane \$\$ Hexahydrotoluene \$\$ Met hylcyclohexane CYCLOHEXANE, METHYL- \$\$ METHYLCYCL OHEXANE \$\$ 1-METHYLCYCLOHEXANE \$\$ CYCLOHEXANE, METHYL	141469	000108-87-2	96
				141386	000108-87-2	94
				141470	000108-87-2	94
6	2.421	63.14	D:\DATABASE\DEMO.L Toluene \$\$ Benzene, methyl \$\$ Meth acide \$\$ Methylbenzene Toluene \$\$ Benzene, methyl \$\$ Meth acide \$\$ Methylbenzene BENZENE, METHYL- \$\$ METHYLBENZENE \$\$ TOLUENE \$\$ ANTISAL 1A	158580	000108-88-3	91
				158579	000108-88-3	91
				158625	000108-88-3	91
7	2.745	1.12	D:\DATABASE\DEMO.L			

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsen-140c-2jm.D
 Acq On : 12 Oct 2019 9:38
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 Sample :
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			Cyclohexane, ethyl- §§ Ethylcyclohexane	141508	001678-91-7	93
			CYCLOHEXANE, ETHYL- §§ ETHYL/CYCLOHEXANE §§ ETHYL/CYCLOHEXANE	141561	001678-91-7	76
			Cyclohexane, ethyl- §§ Ethylcyclohexane	141503	001678-91-7	76
8	2.870	0.58	D:\DATABASE\DEMO.L BENZENE, METHYL- §§ METHYLBENZENE §§ TOLUENE §§ AMFISAL 1A 1,3,5-CYCLOHEPTATRIENE §§ CYCLOHEPTA-1,3,5-TRIENE §§ CYCLOHEPTATRIENE E §§ CYCLOHEPTATRIENE [UN2603] [FLAMMABLE LIQUID] 1,3,5-Cycloheptatriene §§ Tropilidene §§ Cyclohepta-1,3,5-triene §§ Cycloheptatriene	158623 158639 158600	000108-88-3 000544-25-2 000544-25-2	91 91 90
9	4.614	0.01	D:\DATABASE\DEMO.L Eucalyptol §§ Cineol § 2-Oxabicyclo[2.2.2]octane, 1,3,3-trimethyl- §§ p-Menthane, 1,8-epoxy-2-OXABICYCLO[2.2.2]OCTANE, 1,3,3-TRIMETHYL- §§ 1, 8-CINEOL §§ 1,3,3-TRIMETHYL-2-OXABICYCLO[2.2.2]OCTANE E §§ 1,3,3-TRIMETHYL-2-OXABICYCLO[2.2.2]OCTANE, 1,3,3-TRIMETHYL- §§ 1, 8-CINEOL §§ 1,3,3-TRIMETHYL-2-OXABICYCLO[2.2.2]OCTANE E §§ 1,3,3-TRIMETHYL-2-OXABICYCLO[2.2.2]OCTANE	23206 23288 23420	000470-82-6 000470-82-6 000470-82-6	94 93 93
10	16.753	0.01	D:\DATABASE\DEMO.L 4-BROMO-N-[(6-METHYL-2-PYRIDYL)AMINO]METHYLPHthalimide §§ 5-BROMO-2-[(6-METHYL-2-PYRIDINYL)AMINO]METHYL-1H-ISOINDOLE-1,3(2H)-DIONE 2-METHOXY-4-(METHOXYMETHYL)-6-METHYLNICOTINONITRILE §§ PYRIDINE-3-CARBONITRILE, 2,4-DIMETHOXY-6-METHYL-3-(3-OXO-3H-BENZO[F]CHROMEN-2-YL)-2,4(1H,3H)-QUINOLINEDIONE §§ 4-HYDROXY-3-(2-OXO-2H-1-OXA-3-PHENANTHRYL)-2(1H)-QUINOLINONE	7473 7347 7476	999007-47-4 063644-84-8 999007-47-7	9 9 4
11	17.309	0.02	D:\DATABASE\DEMO.L 2H-2,4A-METHANONAPHTHALENE, 1,3,4,5,6,7-HEXAHYDRO-1,1,5,5-TETRAMETHYL-, (2S)- §§ (-)-ISOLONGIPOLINE §§ (-)-ISOLONGIPOLINE §§ (2S)-1,3,4,5,6,7-HEXAHYDRO-1,1,5,5-TETRAMETHYL-2H-2,4A-METHANONAPHTHALENE 2H-2,4a-Methanonaphthalene, 1,3,4,5,6,7-hexahydro-1,1,5,5-tetramethyl-, (2S)- §§ 2H-2,4a-Methanonaphthalene, 1,3,4,5,6,7-hexahydro-1,1,5,5-tetramethyl-, (2S,4aR)-(-)- §§	350805 350641	001135-66-6 001135-66-6	97 97

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsen-140c-2jm.D
 Acq On : 12 Oct 2019 9:38
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 Sample :
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			Isolongifolane §§ (-)-Isolongifol na			
			2H-2,4A-METHANONAPHTHALENE, 1,3,4,	350804	001135-66-6	95
			5,6,7-HEXAHYDRO-1,1,5,5-TETRAMETHY L-, (2S)- §§ (-)-ISOLONGIFOLENE §§ (-)-ISOLONGIFOLINE §§ (2S)-1,3,4, 5,6,7-HEXAHYDRO-1,1,5,5-TETRAMETHY L-2H-2,4A-METHANONAPHTHALENE			
2	17.709	0.01	D:\DATABASE\DEMO.L			
			3-AMINOXY-4-CHLORO-BUTYRIC ACID E THYL ESTER §§ ETHYL 3-(AMINOXY)-4 -CHLOROBUTANOATE	2831	999002-83-2	9
			Taurolidine §§ 2H-1,2,4-Thiadiazin e, 4,4'-methylenbis[tetrahydro-, 1,1,1',1'-tetraoxide §§ 4,4'-Methy lenbis(tetrahydro-1,2,4-thiadiazin e 1,1-dioxide) §§ Taurolin	4983	019388-87-5	9
			3-Aminoxy-4-chlorobutyric acid, e thyl ester	2829	999002-83-0	9
3	17.838	0.01	D:\DATABASE\DEMO.L			
			1,4,5,6,7,8-HEXAHYDROCYCLOHEPTA[C] PYRAZOLE §§ 4,5-PENTANOPYRAZOLE	1149	999001-14-9	10
			2-METHOXY-4-(METHOXYMETHYL)-6-METH YLNICOTINONITRILE §§ PYRIDINE-3-CA RBONITRILE, 2,4-DIMETHOXY-6-METHYL BENZENE, 1-(2-CYCLOHEXEN-1-YL-2-D) -4-METHOXY- §§ 3-(P-METHOXYPHENYL) (2-2H1)CYCLOHEX-1-ENE	7347	063644-84-8	9
				7344	086426-62-2	7
4	28.939	0.00	D:\DATABASE\DEMO.L			
			4-(METHOXYMETHYL)-6-METHYL-2-PHENO XYNICOTINONITRILE §§ PYRIDINE-3-CA RBONITRILE, 4-METHOXYMETHYL-6-METH YL-2-PHENOXY-	7413	332057-36-0	16
			1-DODECANAMINE §§ 1-AMINODODECANE	4661	000124-22-1	9
			§§ 1-DODECYLAMINE §§ ALAMINE 4			
			1-Dodecanamine §§ Dodecylamine §§ n-Dodecylamine §§ Alamine 4	4652	000124-22-1	9
5	30.301	0.03	D:\DATABASE\DEMO.L			
			HNT-PIMARA-8,15-DIENE	481166	021561-92-2	96
			Phenanthrene, 7-ethenyl-1,2,3,4,4a ,5,6,7,8,9,10,10a-dodecahydro-1,1, 4a,7-tetramethyl- §§ Pimara-8,15-d iene #	481092	055255-56-6	90
			PIMARA-8,15-DIENE §§ PHENANTHRENE, 7-ETHENYL-1,2,3,4,4A,5,6,7,8,9,10 ,10A-DODECAHYDRO-1,1,4A,7-TETRAMET HYL- §§ 7.ALPHA.-ETHENYL-1,1,4A,7. BETA.-TETRAMETHYL-1,2,3,4,4A,5,6,7 ,8,9,10,10A-DODECAHYDROPHENANTHREN	481165	055255-56-6	90
6	30.717	0.00	D:\DATABASE\DEMO.L			
			4-(METHOXYMETHYL)-6-METHYL-2-PHENO XYNICOTINONITRILE §§ PYRIDINE-3-CA RBONITRILE, 4-METHOXYMETHYL-6-METH YL-2-PHENOXY-	7413	332057-36-0	27

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsen-140c-2jm.D
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Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			3- (3-OXO-3H-BENZO [F] CHROMEN-2-YL) - 2,4 (1H,3H) -QUINOLINEDIONE §§ 4-HYD ROXY-3- (2-OXO-2H-1-OXA-3-PHENANTHR YL) -2 (1H) -QUINOLINONE	7476	999007-47-7	12
			4-BROMO-N- [(6-METHYL-2-PYRIDYL)AMI NOMETHYL] PHTHALIMIDE §§ 5-BROMO-2- { [(6-METHYL-2-PYRIDINYL) AMINO] METH YL} -1H-ISOINDOLE-1,3 (2H) -DIONE	7473	999007-47-4	9
17	31.251	0.01	D:\DATABASE\DEMO.L 4- (METHOXYMETHYL) -6-METHYL-2-PHENO XYNICOTINONITRILE §§ PYRIDINE-3-CA RBNITRILE, 4-METHOXYMETHYL-6-METH YL-2-PHENOXY- D.C.E.B.A.	7413	332057-36-0	12
			3- (3-OXO-3H-BENZO [F] CHROMEN-2-YL) - 2,4 (1H,3H) -QUINOLINEDIONE §§ 4-HYD ROXY-3- (2-OXO-2H-1-OXA-3-PHENANTHR YL) -2 (1H) -QUINOLINONE	454	000000-00-0	9
				7476	999007-47-7	9
18	31.705	0.02	D:\DATABASE\DEMO.L 4- (METHOXYMETHYL) -6-METHYL-2-PHENO XYNICOTINONITRILE §§ PYRIDINE-3-CA RBNITRILE, 4-METHOXYMETHYL-6-METH YL-2-PHENOXY- 6-ETHYL-2-METHYL-4,6-DIHYDRO-2H-[1 ,4] OXAZINO [3,2-C] QUINOLINE-3,5-DIO NE §§ 6-ETHYL-2-METHYL-2H-1-OXA-4, 6-PHENANTHROLINE-3,5 (4H,6H) -DIONE §§ 6-ETHYL-2-METHYL-6,10B-DIHYDRO- 2H-[1,4] OXAZINO [3,2-C] QUINOLINE-3, 5-DIONE Ethanedicarboxamide, N-allyl-N'- (2 ,5-dimethylphenyl) -	7413	332057-36-0	14
				7414	334023-40-4	12
				7392	331864-72-3	10
19	31.829	0.01	D:\DATABASE\DEMO.L 4- (METHOXYMETHYL) -6-METHYL-2-PHENO XYNICOTINONITRILE §§ PYRIDINE-3-CA RBNITRILE, 4-METHOXYMETHYL-6-METH YL-2-PHENOXY- 2,2' - (1,4-Piperazinediyl) bis [N- (4- methoxyphenyl) succinimide] 1-Tetradecanamine §§ Tetradecylami ne §§ Armeen 14 §§ Myristylamine	7413	332057-36-0	22
				7524	293766-05-9	9
				4817	002016-42-4	7
20	32.067	0.01	D:\DATABASE\DEMO.L 9- (4-HYDROXYPHENYL) -3,3,6,6-TETRAM ETHYL-3,4,6,7,8A,9-HEXAHYDRO-1,8 (2 H,5H) -ACRIDINEDIONE 4- (METHOXYMETHYL) -6-METHYL-2-PHENO XYNICOTINONITRILE §§ PYRIDINE-3-CA RBNITRILE, 4-METHOXYMETHYL-6-METH YL-2-PHENOXY- 2,2' - (1,4-Piperazinediyl) bis [N- (4- methoxyphenyl) succinimide]	7482	999007-48-3	10
				7413	332057-36-0	10
				7524	293766-05-9	9
21	32.197	0.00	D:\DATABASE\DEMO.L 4- (METHOXYMETHYL) -6-METHYL-2-PHENO XYNICOTINONITRILE §§ PYRIDINE-3-CA	7413	332057-36-0	35

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Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

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			RBCNITRILE, 4-METHOXYMETHYL-6-METHYL-2-PHENOXY- L-Alanine, N-glycyl- §§ Alanine, N-glycyl-, L- §§ Glycylalanine §§ Gly-ala Glycyl-dl-alanine §§ DL-Alanine, N-glycyl- §§ N-(Aminoacetyl)alanine #	4366	003695-73-6	9
			Glycyl-dl-alanine §§ DL-Alanine, N-glycyl- §§ N-(Aminoacetyl)alanine #	4361	000926-77-2	5
2	32.413	0.02	D:\DATABASE\DEMO.L 4-(METHOXYMETHYL)-6-METHYL-2-PHENOXYPYRIDINONITRILE §§ PYRIDINE-3-CARBOXYLIC ACID, 4-METHOXYMETHYL-6-METHYL-2-PHENOXY- 3-(3-OXO-3H-BENZO[F]CHROMEN-2-YL)-2,4(1H,3H)-QUINOLINEDIONE §§ 4-HYDROXY-3-(2-OXO-2H-1-OXA-3-PHENANTHRYL)-2(1H)-QUINOLINONE 1-DODECANAMINE §§ 1-AMINODODECANE §§ 1-DODECYLAMINE §§ ALAMINE 4	7413	332057-36-0	12
			3-(3-OXO-3H-BENZO[F]CHROMEN-2-YL)-2,4(1H,3H)-QUINOLINEDIONE §§ 4-HYDROXY-3-(2-OXO-2H-1-OXA-3-PHENANTHRYL)-2(1H)-QUINOLINONE	7476	999007-47-7	10
			1-DODECANAMINE §§ 1-AMINODODECANE §§ 1-DODECYLAMINE §§ ALAMINE 4	4661	000124-22-1	10
3	32.969	0.00	D:\DATABASE\DEMO.L 4-(METHOXYMETHYL)-6-METHYL-2-PHENOXYPYRIDINONITRILE §§ PYRIDINE-3-CARBOXYLIC ACID, 4-METHOXYMETHYL-6-METHYL-2-PHENOXY- 2,2,3,3,4,4,5,5-OCTAFLUORO-N-(3-METHOXYPHENYL)PENTANAMIDE §§ PENTANAMIDE, 2,2,3,3,4,4,5,5-OCTAFLUORO-N-(3-METHOXYPHENYL)- 9-(4-HYDROXYPHENYL)-3,3,6,6-TETRAMETHYL-3,4,6,7,8A,9-HEXAHYDRO-1,8(2H,5H)-ACRIDINEDIONE	7413	332057-36-0	27
			2,2,3,3,4,4,5,5-OCTAFLUORO-N-(3-METHOXYPHENYL)PENTANAMIDE §§ PENTANAMIDE, 2,2,3,3,4,4,5,5-OCTAFLUORO-N-(3-METHOXYPHENYL)-	7474	339166-43-7	10
			9-(4-HYDROXYPHENYL)-3,3,6,6-TETRAMETHYL-3,4,6,7,8A,9-HEXAHYDRO-1,8(2H,5H)-ACRIDINEDIONE	7482	999007-48-3	10
4	33.369	0.01	D:\DATABASE\DEMO.L 2,2'-(1,4-PIPERAZINEDIYL) BIS[N-(4-METHOXYPHENYL)SUCCINIMIDE] 2,2'-(1,4-Piperazinediyl)bis[N-(4-methoxyphenyl)succinimide] 4-(METHOXYMETHYL)-6-METHYL-2-PHENOXYPYRIDINONITRILE §§ PYRIDINE-3-CARBOXYLIC ACID, 4-METHOXYMETHYL-6-METHYL-2-PHENOXY-	7525	293766-05-9	17
			2,2'-(1,4-Piperazinediyl)bis[N-(4-methoxyphenyl)succinimide]	7524	293766-05-9	17
			4-(METHOXYMETHYL)-6-METHYL-2-PHENOXYPYRIDINONITRILE §§ PYRIDINE-3-CARBOXYLIC ACID, 4-METHOXYMETHYL-6-METHYL-2-PHENOXY-	7413	332057-36-0	12
5	33.493	0.08	D:\DATABASE\DEMO.L PIMARA-8(14),15-DIEN-18-AL §§ 1-PHENANTHRENECARBOXYALDEHYDE, 7-ETHENYL-1,2,3,4,4A,4B,5,6,7,9,10,10A-DODECAHYDRO-1,4A,7-TRIMETHYL-, [1R-(1.alpha.,4a.beta.,4b.alpha.,7.beta.,10a.alpha.)]- §§ CRYPTOPINON §§ CRYPTOPINONE 1-Phenanthrenecarboxaldehyde, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,9,10,10a-dodecahydro-1,4a,7-trimethyl-, [1R-(1.alpha.,4a.beta.,4b.alpha.,7.beta.,10a.alpha.)]- §§ Podocarp-8(14)-en-15-al, 13.alpha.-methyl-13-vinyl- §§ Cryptopinon §§ Cryptopino	481208	000472-39-9	83
			1-Phenanthrenecarboxaldehyde, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,9,10,10a-dodecahydro-1,4a,7-trimethyl-, [1R-(1.alpha.,4a.beta.,4b.alpha.,7.beta.,10a.alpha.)]- §§ Podocarp-8(14)-en-15-al, 13.alpha.-methyl-13-vinyl- §§ Cryptopinon §§ Cryptopino	481182	000472-39-9	83

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Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

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			na			
			KAURA-5,16-DIEN-18-OL §§ KAURA-5,1	492904	023837-99-2	80
			6-DIEN-18(OR 19)-OL §§ KAURA-5,16-			
			DIEN-19-OL			
26	33.677	0.01	D:\DATABASE\DEMO.L			
			3-PHENYL-2-ACETYL-1-HYDROXYCYCLOHE	45247	088483-84-5	27
			XENE-4-CARBONITRILE			
			2,4-Bis(hydroxylamino)-5-nitropyri	44521	999044-52-3	14
			midina			
			Sarcosine, n-hexanoyl-, butyl este	45268	999045-27-0	14
27	33.785	0.02	D:\DATABASE\DEMO.L			
			No matches found			
28	33.855	0.06	D:\DATABASE\DEMO.L			
			1-Methyl-10,18-bisnorabieta-8,11,1	466158	999466-16-6	93
			3-triene			
			4-(N-METHYLAMINO)-6,7-(1,2,3,4-TET	466219	000000-00-0	78
			RAHYDRO-1,1,4,4-TETRAMETHYLBENZO)I			
			NDOLE			
			1-[4-METHOXY-3-(4-METHYLPHENOXY)PH	466181	116345-94-9	62
			ENYL]ETHANONE §§ ETHANONE, 1-[4-ME			
			THOXY-3-(4-METHYLPHENOXY)PHENYL]-			
29	34.131	0.02	D:\DATABASE\DEMO.L			
			KAUR-16-EN-18-OIC ACID §§ KAUR-16-	168418	020316-84-1	15
			EN-18-OIC ACID, (4-BETA.)- §§ (-)-			
			KAURNEOIC ACID §§ (4-BETA)-KAUR-1			
			6-EN-18-OIC ACID			
			ABIETA-7,13-DIEN-18-OIC ACID §§ 1-	168420	000514-10-3	11
			PHENANTHRENECARBOXYLIC ACID, 1,2,3			
			,4,4A,4B,5,6,10,10A-DECAHYDRO- §§			
			1-PHENANTHRENECARBOXYLIC ACID, 1,2			
			,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1,			
			4A-DIMETHYL-7-(1-METHYLETHYL)-, [1			
			R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A			
			.ALPHA.)]-			
			7-ANTI-METHYL-N-PHENYL-7-SYN-VINYL	167018	118205-81-5	9
			-5,6-DIAZABICYCLO[2.2.1]HEPT-2-ENE			
			-5,6-DICARBOXIMIDE			
30	34.185	0.02	D:\DATABASE\DEMO.L			
			Benzaldehyde, 4-(1-methylethyl)- §	286032	000122-03-2	46
			§ Benzaldehyde, p-isopropyl- §§ p-			
			Cumic aldehyde §§ p-Isopropylbenza			
			ldehyde			
			BENZALDEHYDE, 4-(1-METHYLETHYL)- §	286114	000122-03-2	46
			§ 4-ISOPROPYLBENZALDEHYDE §§ 4-(1-			
			METHYLETHYL)-BENZALDEHYDE §§ 4-(1-			
			METHYLETHYL)BENZALDEHYDE			
			1-(2-PROPYL)-2,3,5-TRIMETHYLCYCLOP	286083	999286-08-6	45
			ENTA-2,4-DIEN §§ 5-ALLYL-1,2,4-TRI			
			METHYL-1,3-CYCLOPENTADIENE			
31	34.309	0.03	D:\DATABASE\DEMO.L			
			METHYL PIMARA-8,15-DIEN-18-OATE §§	466513	003582-26-1	60
			1-PHENANTHRENECARBOXYLIC ACID, 7-			
			ETHENYL-1,2,3,4,4A,5,6,7,8,9,10,10			

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Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

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			A-DODECAHYDRO-1,4A,7-TRIMETHYL-, M ETHYL ESTER, [1R-(1.ALPHA.,4A.BETA .,7.BETA.,10A.ALPHA.)]- §§ METHYL 8,15-PIMARADIEN-18-OATE			
			1-Phenanthrenecarboxylic acid, 7- thenyl-1,2,3,4,4a,5,6,7,8,9,10,10a -dodecahydro-1,4a,7-trimethyl-, me thyl ester, [1R-(1.alpha.,4a.beta. .7.alpha.,10a.alpha.)]- §§ Podocar p-8-en-15-oic acid, 13.beta.-methyl 1-13-vinyl-, methyl ester	466506	019907-21-2	46
			METHYL PIMARA-8,15-DIEN-18-OATE §§	466512	019907-21-2	46
			1-PHENANTHRENECARBOXYLIC ACID, 7- ETHENYL-1,2,3,4,4A,5,6,7,8,9,10,10 A-DODECAHYDRO-1,4A,7-TRIMETHYL-, M ETHYL ESTER, [1R-(1.ALPHA.,4A.BETA .,7.ALPHA.,10A.ALPHA.)]- §§ METHYL 8,15-ISOPIMARADIEN-18-OATE			
32	34.530	0.13	D:\DATABASE\DEMO.L 2H-1,4-BENZODIAZEPIN-2-ONE, 7-CHLO RO-1,3-DIHYDRO-3-HYDROXY-5-PHENYL- §§ (+)-OXAZEPAM §§ (RS)-OXAZEPAM §§ 1,3-DIHYDRO-7-CHLORO-3-HYDROXY -5-PHENYL-2H-1,4-BENZODIAZEPIN-2-O NE	481202	000604-75-1	64
			1,5-CYCLODODECADIENE, 8,10-BIS(MET HYLENE)- §§ MIXTURE OF TRANS,TRANS -1,3-DIMETHYLENECYCLODODECA-5,9-DI ENE AND TRANS,TRANS-1,10-DIMETHYLE NECYCLODODECA-3,7-DIENE (ISOMER A)	161342	066405-18-3	42
			1-Phenanthrenecarboxaldehyde, 7-et henyl-1,2,3,4,4a,4b,5,6,7,9,10,10a -dodecahydro-1,4a,7-trimethyl-, [1 R-(1.alpha.,4a.beta.,4b.alpha.,7.b eta.,10a.alpha.)]- §§ Podocarp-8(1 4)-en-15-al, 13.alpha.-methyl-13-v inyl- §§ Cryptopinon §§ Cryptopino ne	481182	000472-39-9	41
33	34.644	0.00	D:\DATABASE\DEMO.L Ethyl 2-((diethoxyphosphoryl)oxy)- 3,3,3-trifluoropropanoate	3375	999003-37-6	1
34	34.687	0.00	D:\DATABASE\DEMO.L 1-Tetradecanamine §§ Tetradecylami ne §§ Armeen 14 §§ Myristylamine 1-Undecanamine §§ Undecylamine §§ n-Undecylamine §§ Heptadecylamine 4-(METHOXYMETHYL)-6-METHYL-2-PHENO XYNICOTINONITRILE §§ PYRIDINE-3-CA RHONITRILE, 4-METHOXYMETHYL-6-METH YL-2-PHENOXY-	4817	002016-42-4	10
				4554	007307-55-3	9
				7413	332057-36-0	9
35	34.779	0.02	D:\DATABASE\DEMO.L Benzonitrile, n-phenethyl- §§ 3-(2 -Phenylethyl)benzonitrile # 3-(2-PHENYLETHYL)BENZONITRILE §§ B ENZONITRILE, M-PHENETHYL- §§ 1-(3-	162409	034176-91-5	11
				162420	034176-91-5	11

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			CYANOPHENYL)-2-PHENYLETHANE §§ M-C YANO-1,2-DIPHENYLETHANE			
			2H-3,9A-METHANO-1-BENZOXEPIN, OCTA HYDRO-2,2,5A,9-TETRAMETHYL-, [3R-(3.ALPHA.,5A.ALPHA.,9.ALPHA.,9A.ALP HA.)]- §§ .BETA.-AGAROPURAN, DIHYD RO- §§ .BETA.-DIHYDROAGAROPURAN §§ 2H-3,9A-METHANO-1-BENZOXEPIN, OCT AHYDRO-2,2,5A,9-TETRAMETHYL-	3110	005956-09-2	10
36	34.919	0.01	D:\DATABASE\DEMO.L Diethyl 3-chloro-2-hydroxypropylma lonate	3235	999003-23-6	9
			DIETHYL 2-(3-CHLORO-2-HYDROXYPROPY L)MALONATE §§ DIETHYL 3-CHLORO-2-H YDROXYPROPYLMALONATE	3236	999003-23-7	9
			2H-3,9A-METHANO-1-BENZOXEPIN, OCTA HYDRO-2,2,5A,9-TETRAMETHYL-, [3R-(3.ALPHA.,5A.ALPHA.,9.ALPHA.,9A.ALP HA.)]- §§ .BETA.-AGAROPURAN, DIHYD RO- §§ .BETA.-DIHYDROAGAROPURAN §§ 2H-3,9A-METHANO-1-BENZOXEPIN, OCT AHYDRO-2,2,5A,9-TETRAMETHYL-	3110	005956-09-2	8
37	34.984	0.01	D:\DATABASE\DEMO.L 4-(Phenylthioxomethyl)morpholine § § Morpholine, 4-(thiobenzoyl)- §§ Morpholinylthiobenzamide §§ 4-(Thi obenzoyl)morpholine	256918	002032-36-2	25
			(1S*,2S*,5R*,10R*)-1,6-DIMETHYL-10 -ETHOXY-11-OXATRICYCLO[5.3.0.1(2,5)]UNDEC-6-ENE	257280	124780-75-2	23
			(1S*,2S*,5R*,6R*,10R*)-1,6-DIMETHY L-10-ETHOXY-11-OXATRICYCLO[5.3.0.1 (2,5)]UNDEC-6-ENE	257281	124780-76-3	17
38	35.027	0.02	D:\DATABASE\DEMO.L 2-Cyclohexyldimethylsilyloxyoct-3- ene	123545	999123-54-8	62
			1,1-DIMETHOXYUNDECANE §§ UNDECANAL , DIMETHYL ACETAL §§ UNDECANE, 1,1 -DIMETHOXY- §§ UNDECANAL DIMETHYL ACETAL	123009	052517-67-6	53
			1-Ethyl-2-pentamethylidisilanyloxy cyclohexane	123454	999123-45-7	53
39	35.141	0.02	D:\DATABASE\DEMO.L KAUR-16-EN-18-OIC ACID §§ KAUR-16- EN-18-OIC ACID, (4.BETA.)- §§ (-)- KAURENOIC ACID §§ (4-BETA.)-KAUR-1 6-EN-18-OIC ACID	168418	020316-84-1	38
			2-METHYL-3-PHENYL-1H-INDOLE §§ 1H- INDOLE, 2-METHYL-3-PHENYL- §§ 2-ME THYL-3-PHENYLINDOLE §§ 3-PHENYL-2- METHYLINDOLE	428173	004757-69-1	25
			PYRIMIDINE, 2-(4-NITRO-2-THIENYL)- §§ 2-(4'-NITRO-2'-THIENYL)PYRIMID INE	428101	057059-15-1	25

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40	35.163	0.02	D:\DATABASE\DEMO.L KAUR-16-EN-18-OIC ACID §§ KAUR-16- EN-18-OIC ACID, (4.BETA.)- §§ (-)- KAURNENOIC ACID §§ (4-BETA)-KAUR-1 6-EN-18-OIC ACID BUTYL 2-(METHYLAMINO)BENZOATE §§ A NTHRANILIC ACID, N-METHYL-, BUTYL ESTER §§ N-BUTYL O-METHYLAMINOENZ OATE 1H-Pyrazole-1-acetamide, 4-iodo-N- (phenylmethyl)-	168418	020316-84-1	38
				209256	015236-34-7	35
				170579	999170-58-2	16
41	35.276	0.01	D:\DATABASE\DEMO.L CIS-4-ETHOXY-B-METHYL-B-NITROSTYRE NE 2-PROPENE-1-SULFONIC ACID, 3-(3,4, 5-TRIMETHOXYPHENYL)-, METHYL ESTER , (E)- §§ METHYL-3-(3',4',5'-TRIME THOXYPHENYL)-2-PROPENE-1-SULFONAT BUTYL 2-(METHYLAMINO)BENZOATE §§ A NTHRANILIC ACID, N-METHYL-, BUTYL ESTER §§ N-BUTYL O-METHYLAMINOENZ OATE	428132	000000-00-0	48
				428799	104503-96-0	38
				209256	015236-34-7	38
42	35.298	0.01	D:\DATABASE\DEMO.L KAUR-16-EN-18-OIC ACID §§ KAUR-16- EN-18-OIC ACID, (4.BETA.)- §§ (-)- KAURNENOIC ACID §§ (4-BETA)-KAUR-1 6-EN-18-OIC ACID ABIETA-7,13-DIEN-18-OIC ACID §§ 1- PHENANTHRENECARBOXYLIC ACID, 1,2,3 ,4,4A,4B,5,6,10,10A-DECAHYDRO- §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, [1 R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A .ALPHA.)]- Benzenepropanoic acid, tert-butyl d imethylsilyl ester §§ tert-Butyl(d imethyl)silyl 3-phenylpropanoate #	168418	020316-84-1	35
				168420	000514-10-3	11
				123517	078324-01-3	10
43	35.395	0.04	D:\DATABASE\DEMO.L Pyridine, 4-[5-[[[4-fluorophenyl]m ethyl]thio]-1,3,4-oxadiazol-2-yl]- 6-(3-BROMOPROPYL)-2(1H)-PYRIDINONE 2(1H)-PYRIDINONE, 6-METHYL- §§ 2 (2 1H)-PYRIDINONE, 6-METHYL- §§ 2 (1H) -PYRIDONE, 6-METHYL- §§ 2(1H)-PYR IDONE, 6-METHYL-	229059	999229-06-2	27
				228227	101773-69-7	25
				226818	003279-76-3	25
44	35.470	0.57	D:\DATABASE\DEMO.L Phenol, 2,4-bis(1-phenylethyl)- §§ 2,4-Bis(1-phenylethyl)phenol # ROSIN ACIDS PIMARA-8(14),15-DIEN-18-OIC ACID § § 1-PHENANTHRENECARBOXYLIC ACID, 7 -ETHENYL-1,2,3,4,4A,4B,5,6,7,9,10, 10A-DODECAHYDRO-1,4A,7-TRIMETHYL-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,	504578	002769-94-0	51
				504611	000000-00-0	45
				504609	000127-27-5	42

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Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.a

%#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			7.BETA.,10A.ALPHA.)]- \$\$ (+)-PIMARIC ACID \$\$.ALPHA.-PIMARIC ACID			
45	35.649	0.07	D:\DATABASE\DEMO.L 1H-NAPHTHO[2,3-C]PYRAN-5,10-DIONE, 3,4-DIHYDRO-7,9-DIMETHOXY-1,3-DIMETHYL-, CIS-(.-.-.)- \$\$ (+,-)-CIS-7,9-DIMETHOXY-1,3-DIMETHYL-3,4,5,10-TETRAHYDRONAPHTHO[2,3-C]PYRAN-5,10-DIONE 1H-NAPHTHO[2,3-C]PYRAN-5,10-DIONE, 3,4-DIHYDRO-7,9-DIMETHOXY-1,3-DIMETHYL-, TRANS-(.-.-.)- \$\$ (+,-)-DBOXYQUINONE A DIMETHYL ETHER \$\$ (+,-)-TRANS-7,9-DIMETHOXY-1,3-DIMETHYL-3,4,5,10-TETRAHYDRONAPHTHO[2,3-C]PYRAN-5,10-DIONE Methanone, [1,4-dimethyl-7-(1-methylethyl)-2-azulenyl]phenyl- \$\$ 2-Benzoylquiazulene \$\$ (7-Isopropyl-1,4-dimethyl-2-azulenyl)(phenyl)methanone #	513558	084018-43-9	52
46	35.751	0.17	D:\DATABASE\DEMO.L DEHYDROABIETIC ACID METHYL ABIETA-8,11,13-TRIEN-18-OATE \$ \$ 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,9,10,10A-OCTAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, METHYL ESTER, [1R-(1.ALPHA.,4A.BETA.,10A.ALPHA.)]- \$ \$ DEHYDROABIETIC ACID METHYL ESTER \$ \$ METHYL DEHYDROABIETATE 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-, methyl ester, [1R-(1.alpha.,4a.beta.,10a.alpha.)]- \$ \$ Podocarpa-8,11,13-trien-15-oic acid, 13-isopropyl-, methyl ester \$ \$ Methyl dehydroabietate	464556	000000-00-0	97
47	35.913	0.06	D:\DATABASE\DEMO.L KAUR-16-EN-18-OIC ACID \$ \$ KAUR-16-EN-18-OIC ACID, (4.BETA.)- \$ \$ (-)-KAURNENOIC ACID \$ \$ (4-BETA)-KAUR-16-EN-18-OIC ACID Androst-5-en-17-ol, 4,4-dimethyl-Abietic acid \$ \$ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- \$ \$ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- \$ \$ L-abietic acid	168418	020316-84-1	58
48	35.989	0.08	D:\DATABASE\DEMO.L 1-CYCLOHEXENE-1-METHANOL, .ALPHA., 2-DIETHENYL- \$ \$ 1-(2'-ETHENYL-1'-CYCLOHEXENYL)-2-PROPEN-1-OL	160335	115691-99-1	59

Data Path : F:\DATA MS\daa\
 Data File : WIM-10prsn-140c-2jm.D
 Acq On : 12 Oct 2019 9:38
 Operator :
 Sample :
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

%#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			Silane, dimethyl(undec-2-onyloxy)1 sobutoxy-	123856	999123-85-9	55
			2-Methyl-1-propanol, tert-butylidim ethylsilyl ether	122637	999122-64-0	35
49	36.092	0.48	D:\DATABASE\DEMO.L INDOLIZINO[1,2-B]QUINOLIN-9(11H)-O NE, 8-[(FORMYLOXY)METHYL]-7-(1-OXO PROPYL)- §§ 8-FORMYLOXYMETHYL-7-(1 -OXOPROPYL) INDOLIZINO[1,2-B]QUINOL IN-9(11H)-ONE	504762	054318-62-6	92
			PIMARA-8(14),15-DIEN-18-OIC ACID § § 1-PHENANTHRENECARBOXYLIC ACID, 7 -ETHENYL-1,2,3,4,4A,4B,5,6,7,9,10, 10A-DODECAHYDRO-1,4A,7-TRIMETHYL-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA., 7.BETA.,10A.ALPHA.)]- §§ (+)-PIMAR IC ACID §§ .ALPHA.-PIMARIC ACID	504609	000127-27-5	70
			1-Hydroxy-6-(3-isopropenyl-cyclopr op-1-enyl)-6-methyl-heptan-2-one	257257	999257-26-0	42
50	36.313	0.02	D:\DATABASE\DEMO.L PIMARA-8(14),15-DIEN-18-OIC ACID § § 1-PHENANTHRENECARBOXYLIC ACID, 7 -ETHENYL-1,2,3,4,4A,4B,5,6,7,9,10, 10A-DODECAHYDRO-1,4A,7-TRIMETHYL-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA., 7.BETA.,10A.ALPHA.)]- §§ (+)-PIMAR IC ACID §§ .ALPHA.-PIMARIC ACID	504608	000127-27-5	90
			Pimaric acid §§ 1-Phenanthrenecarb oxylic acid, 7-ethenyl-1,2,3,4,4a, 4b,5,6,7,9,10,10a-dodecahydro-1,4a ,7-trimethyl-, [1R-(1.alpha.,4a.be ta.,4b.alpha.,7.beta.,10a.alpha.)] - §§ Podocarp-8(14)-en-15-oic acid , 13.alpha.-methyl-13-vinyl- §§ D- pimaric acid	504569	000127-27-5	90
			PIMARA-8(14),15-DIEN-18-OIC ACID § § 1-PHENANTHRENECARBOXYLIC ACID, 7 -ETHENYL-1,2,3,4,4A,4B,5,6,7,9,10, 10A-DODECAHYDRO-1,4A,7-TRIMETHYL-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA., 7.BETA.,10A.ALPHA.)]- §§ (+)-PIMAR IC ACID §§ .ALPHA.-PIMARIC ACID	504609	000127-27-5	59
51	36.383	0.22	D:\DATABASE\DEMO.L METHYL ABIETA-7,13-DIEN-18-OATE §§ 1-PHENANTHRENECARBOXYLIC ACID, 1, 2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1 ,4A-DIMETHYL-7-(1-METHYLETHYL)-, M ETHYL ESTER, [1R-(1.ALPHA.,4A.BETA ,4B.ALPHA.,10A.ALPHA.)]- §§ ABALY N §§ ABIETIC ACID METHYL ESTER	258918	000127-25-3	98
			Methyl abietate §§ 1-Phenanthrenec arboxylic acid, 1,2,3,4,4a,4b,5,6, 10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, methyl ester, [1R -(1.alpha.,4a.beta.,4b.alpha.,10a. alpha.)]- §§ Podocarpa-7,13-dien-1	258889	000127-25-3	98

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsn-140c-2jm.D
 Acq On : 12 Oct 2019 9:38
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Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

%#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			5-oic acid, 13-isopropyl-, methyl ester §§ AbalyN			
			METHYL ABIETA-7,13-DIEN-18-OATE §§	480551	000127-25-3	94
			1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, METHYL ESTER, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A.ALPHA.)]- §§ ABALYN §§ ABIETIC ACID METHYL ESTER			
52	36.589	0.74	D:\DATABASE\DEMO.L			
			1-PHENANTHRENECARBOXYLIC ACID, 7-E	466436	005835-26-7	89
			THENYL-1,2,3,4,4A,4B,5,6,7,8,10,10A-DODECAHYDRO-1,4A,7-TRIMETHYL-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,7.ALPHA.,10A.ALPHA.)]- §§ ISOPIMARIC ACID §§ PODOCARP-7-EN-15-OIC ACID, 13.BETA.-METHYL-13-VINYLBENZ[A]ANTHRACENE	513655	099707-96-7	87
			Phenol, 2,4-bis(1-phenylethyl)- §§	504578	002769-94-0	86
			2,4-Bis(1-phenylethyl)phenol #			
53	36.740	0.27	D:\DATABASE\DEMO.L			
			1H-NAPHTHO[2,3-C]PYRAN-5,10-DIONE, 3,4-DIHYDRO-7,9-DIMETHOXY-1,3-DIMETHYL-, TRANS-(+)- §§ (+,-)-DEOXYQUINONE A DIMETHYL ETHER §§ (+,-)-TRANS-7,9-DIMETHOXY-1,3-DIMETHYL-3,4,5,10-TETRAHYDRONAPHTHO[2,3-C]PYRAN-5,10-DIONE	513557	084018-44-0	90
			1H-NAPHTHO[2,3-C]PYRAN-5,10-DIONE, 3,4-DIHYDRO-7,9-DIMETHOXY-1,3-DIMETHYL-, CIS-(+)- §§ (+,-)-CIS-7,9-DIMETHOXY-1,3-DIMETHYL-3,4,5,10-TETRAHYDRONAPHTHO[2,3-C]PYRAN-5,10-DIONE	513558	084018-43-9	90
			Androst-5-en-17-ol, 4,4-dimethyl-	513436	999513-44-9	86
54	36.870	0.04	D:\DATABASE\DEMO.L			
			Palustric acid §§ Podocarpa-8,13-dien-15-oic acid, 13-isopropyl- §§	513439	001945-53-5	55
			1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,5,6,9,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,10a.alpha.)]- §§ 8,13-Abietadien-18-oic acid			
			Androst-5-en-17-ol, 4,4-dimethyl-	513436	999513-44-9	53
			1-Hydroxy-3,7,8-trimethoxyxanthene-9-one §§ 8-Hydroxy-1,2,6-trimethoxy-9H-xanthene-9-one #	504580	020882-69-3	50
55	36.945	0.87	D:\DATABASE\DEMO.L			
			1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,10a.alpha.)]- §§ Podocarpa-8,11,13-trien-15-oic acid, 13-isopropyl- §§ Abieta-8,11,13-trien-18-oic acid §§ Abietic acid,	503093	001740-19-8	99

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsen-140c-2jm.D
 Acq On : 12 Oct 2019 9:38
 Operator :
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Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

k#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			dehydro-			
			ABIETA-8,11,13-TRIEN-18-OIC ACID §	503106	999503-11-8	99
			§ PODOCARPA-8,11,13-TRIEN-15-SARUR			
			E, 13-ISOPROPYL-			
			1-PHENANTHRENECARBOXYLIC ACID, 1,2	503110	001740-19-8	99
			,3,4,4A,9,10,10A-OCTAHYDRO-1,4A-DI			
			METHYL-7-(1-METHYLETHYL)-, [1R-(1.			
			ALPHA.,4A.BETA.,10A.ALPHA.)]- §§ (
			-)-DEHYDROABIETIC ACID §§ 1,2,3,4,			
			4A,9,10,10A-OCTAHYDRO-1,4A-DIMETHY			
			L-7-(1-METHYLETHYL)-1-PHENANTHRENE			
			CARBOXYLIC ACID			
56	37.161	0.04	D:\DATABASE\DEMO.L			
			1-Phenanthrenecarboxylic acid, 1,2	503094	005155-70-4	93
			,3,4,4a,9,10,10a-octahydro-1,4a-di			
			methyl-7-(1-methylethyl)-, [1S-(1.			
			alpha.,4a.alpha.,10a.beta.)]- §§ P			
			odocarpa-8,11,13-trien-16-oic acid			
			, 13-isopropyl- §§ Callitricic aci			
			d §§ 4-Epiabietic acid, dehydro-			
			ABIETA-8,11,13-TRIEN-18-OIC ACID §	503112	005155-70-4	93
			§ 1-PHENANTHRENECARBOXYLIC ACID, 1			
			,2,3,4,4A,9,10,10A-OCTAHYDRO-1,4A-			
			DIMETHYL-7-(1-METHYLETHYL)-, [1S-(
			1.ALPHA.,4A.ALPHA.,10A.BETA.)]- §§			
			13-ISOPROPYLPODOCARPA-8,11,13-TRI			
			EN-16-OIC ACID §§ 4-EPABIETIC ACI			
			D, DEHYDRO-			
			ABIETA-7,13-DIEN-18-OIC ACID §§ 1-	168419	000514-10-3	70
			PHENANTHRENECARBOXYLIC ACID, 1,2,3			
			,4,4A,4B,5,6,10,10A-DECAHYDRO- §§			
			1-PHENANTHRENECARBOXYLIC ACID, 1,2			
			,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1,			
			4A-DIMETHYL-7-(1-METHYLETHYL)-, [1			
			R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A			
			.ALPHA.)]-			
57	37.242	0.24	D:\DATABASE\DEMO.L			
			ABIETA-7,13-DIEN-18-OIC ACID §§ 1-	168420	000514-10-3	86
			PHENANTHRENECARBOXYLIC ACID, 1,2,3			
			,4,4A,4B,5,6,10,10A-DECAHYDRO- §§			
			1-PHENANTHRENECARBOXYLIC ACID, 1,2			
			,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1,			
			4A-DIMETHYL-7-(1-METHYLETHYL)-, [1			
			R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A			
			.ALPHA.)]-			
			ABIETA-7,13-DIEN-18-OIC ACID §§ 1-	168419	000514-10-3	70
			PHENANTHRENECARBOXYLIC ACID, 1,2,3			
			,4,4A,4B,5,6,10,10A-DECAHYDRO- §§			
			1-PHENANTHRENECARBOXYLIC ACID, 1,2			
			,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1,			
			4A-DIMETHYL-7-(1-METHYLETHYL)-, [1			
			R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A			
			.ALPHA.)]-			
			Abietic acid §§ 1-Phenanthrenecarb	513378	000514-10-3	70
			oxyllic acid, 1,2,3,4,4a,4b,5,6,10,			
			10a-decahydro-1,4a-dimethyl-7-(1-m			
			ethylethyl)-, [1R-(1.alpha.,4a.bet			

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsen-140c-2jm.D
 Acq On : 12 Oct 2019 9:38
 Operator :
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Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

%#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			a.,4b.alpha.,10a.alpha.))- §§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- §§ L-abietic acid			
58	37.291	0.18	D:\DATABASE\DEMO.L ABIETA-7,13-DIEN-18-OIC ACID §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO- §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A.ALPHA.)]- Abietic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.a.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- §§ L-abietic acid Palustric acid §§ Podocarpa-8,13-dien-15-oic acid, 13-isopropyl- §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,5,6,9,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, (1R-(1.alpha.,4a.beta.,10a.alpha.))- §§ 8,13-Abietadien-18-oic acid	168419	000514-10-3 90	
59	37.388	0.13	D:\DATABASE\DEMO.L ABIETA-8,11,13-TRIEN-18-OIC ACID § 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,9,10,10A-OCTAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, [1S-(1.ALPHA.,4A.ALPHA.,10A.BETA.)]- §§ 13-ISOPROPYLPODOCARPA-8,11,13-TRIEN-16-OIC ACID §§ 4-EPIABIETIC ACID, DEHYDRO- 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1S-(1.alpha.,4a.alpha.,10a.beta.)]- §§ Podocarpa-8,11,13-trien-16-oic acid, 13-isopropyl- §§ Callitricic acid §§ 4-Epiabietic acid, dehydro- ABIETA-7,13-DIEN-18-OIC ACID §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO- §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A.ALPHA.)]-	503112	005155-70-4 90	
60	37.448	0.07	D:\DATABASE\DEMO.L 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1S-(1.alpha.,4a.alpha.,10a.beta.)]- §§ Podocarpa-8,11,13-trien-16-oic acid	503094	005155-70-4 92	

Data Path : F:\DATA MS\daa\
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Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			, 13-isopropyl- §§ Callitricic acid §§ 4-Epiabiatic acid, dehydro-			
			ABIETA-8,11,13-TRIEN-18-OIC ACID §	503112	005155-70-4	92
			§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,9,10,10A-OCTAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, [1S-(1.ALPHA.,4A.ALPHA.,10A.BETA.)]- §§ 13-ISOPROPYLPODOCARPA-8,11,13-TRIEN-16-OIC ACID §§ 4-EPIABIATIC ACID, DEHYDRO-			
			ABIETA-7,13-DIEN-18-OIC ACID §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO- §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A.ALPHA.)]-	168419	000514-10-3	90
61	37.696	3.22	D:\DATABASE\DEMO.L Abiatic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.a.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- §§ L-abiatic acid	513378	000514-10-3	99
			Abiatic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.a.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- §§ L-abiatic acid	513347	000514-10-3	94
			Abiatic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.a.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- §§ L-abiatic acid	513344	000514-10-3	93
62	38.485	0.09	D:\DATABASE\DEMO.L Abiatic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.a.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- §§ L-abiatic acid	513378	000514-10-3	92
			Abiatic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.a.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- §§ L-abiatic acid	513344	000514-10-3	55
			Palustric acid §§ Podocarpa-8,13-dien-15-oic acid, 13-isopropyl- §§	513439	001945-53-5	53

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Unknown Spectrum: Apex
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PK#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,5,6,9,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, (1R-(1.alpha.,4a.beta.,10a.alpha.))- §§ 8,13-Abietadien-18-oic acid			
63	38.825	0.08	D:\DATABASE\DEMO.L Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid	513378	000514-10-3	83
			Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid	513344	000514-10-3	83
			CYCLOTETRADECA(B)FURAN-7(4H)-ONE, 2,5,6,8,9,12,13,15A-OCTAHYDRO-3,6, 10,14-TETRAMETHYL- §§ (3Z,10E,14E) -6,7-EPOXY-3,6,10,14-TETRAMETHYL-2 ,4,5,6,7,8,9,12,13,15A-DECAHYDROCY CLOTETRADECA(B)FURAN	294174	070701-53-0	62
64	39.003	0.18	D:\DATABASE\DEMO.L Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid	513347	000514-10-3	70
			Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid	513378	000514-10-3	46
			.beta.-Pimaric acid §§ .delta.6,8(14)-Abietadienoic acid §§ 1-Pimari c acid §§ 1-Sapietic acid	513374	000079-54-9	43

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsen-140c-3jm.D
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 Sample :
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 ALS Vial : 3 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

k#	RT	Area%	Library/ID	Ref#	CAS#	Qual
1	1.962	5.29	D:\DATABASE\DEMO.L Methyl Alcohol §§ Methanol §§ Carb inol §§ Methyl hydroxide METHANOL §§ HYDROXYMETHANE §§ ALCO HOL, METHYL §§ ALCOOL METHYLIQUE Methyl Alcohol §§ Methanol §§ Carb inol §§ Methyl hydroxide	5073	000067-56-1	2
				5075	000067-56-1	2
				5072	000067-56-1	2
2	2.070	0.01	D:\DATABASE\DEMO.L Decyl trifluoroacetate §§ Decyl 2, 2,2-trifluoroacetate §§ 1-Decanol, trifluoroacetate §§ Acetic acid, trifluoro-, decyl ester L-Talose, 6-deoxy-3-C-methyl-2-O-m ethyl- §§ Talose, 6-deoxy-3-C-meth yl-2-O-methyl-, L- §§ L-Vinalose § § Vinalose 6-DEOXY-3-C-METHYL-2-O-METHYLHEXOS E §§ L-TALOSE, 6-DEOXY-3-C-METHYL- 2-O-METHYL- §§ 6-DEOXY-3-C-METHYL- 2-O-METHYLTALOSE §§ L-VINLOSE	32006	000333-88-0	64
				27022	027208-98-6	33
				27067	027208-98-6	33
3	2.135	0.15	D:\DATABASE\DEMO.L Pentane, 2,4-dimethyl- §§ 2,4-Dime thylpentane Pentane, 2,4-dimethyl- §§ 2,4-Dime thylpentane HEPTANE, 3-METHYL- §§ 3-METHYLHEPT ANE §§ 2-ETHYLHEXANE	18753	000108-08-7	90
				18750	000108-08-7	87
				19876	000589-81-1	72
4	2.200	11.25	D:\DATABASE\DEMO.L HEXANE, 3-METHYL- §§ 3-METHYLHEXAN E §§ 2-ETHYLPENTANE §§ HEXANE, 3-M ETHYL 1-PENTANOL, 2-METHYL- §§ 2-METHYLP ENTAN-1-OL §§ (+)-2-METHYL-1-PENT ANOL §§ (+)-2-METHYLPENTANOL Hexane, 3-methyl- §§ 2-Ethylpantan e §§ 3-Methylhexane	18994	000589-34-4	64
				19228	000105-30-6	59
				18754	000589-34-4	58
5	2.243	4.42	D:\DATABASE\DEMO.L Cyclopentane, 1,3-dimethyl-, cis- §§ cis-1,3-Dimethylcyclopentane §§ 1,3-Dimethylcyclopentane cis §§ 1 ,3-Dimethylcyclopentane # 1,3-DIMETHYLCYCLOPENTANE §§ CYCLOP ENTANE, 1,3-DIMETHYL-, CIS- §§ 1,3 -DIMETHYLCYCLOPENTANE (CIS) §§ 1,3 -DIMETHYLCYCLOPENTANE CIS Cyclopentane, 1,3-dimethyl- §§ 1,3 -Dimethylcyclopentane	62231	002532-58-3	91
				62286	002532-58-3	91
				101343	002453-00-1	91
6	2.335	6.68	D:\DATABASE\DEMO.L CYCLOHEXANE, METHYL- §§ METHYL/CYCL OHEXANE §§ 1-METHYL/CYCLOHEXANE §§ CYCLOHEXANE, METHYL CYCLOHEXANE, METHYL- §§ METHYL/CYCL OHEXANE §§ 1-METHYL/CYCLOHEXANE §§ CYCLOHEXANE, METHYL	141469	000108-87-2	96
				141470	000108-87-2	95

Library Search Report

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Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

K#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			CYCLOHEXANE, METHYL- §§ METHYL CYCLOHEXANE §§ CYCLOHEXANE, METHYL	141467	000108-87-2	95
7	2.421	61.30	D:\DATABASE\DEMO.L Toluene §§ Benzene, methyl §§ Methacide §§ Methylbenzene BENZENE, METHYL- §§ METHYLBENZENE §§ TOLUENE §§ ANTISAL 1A Toluene §§ Benzene, methyl §§ Methacide §§ Methylbenzene	158580 158625 158579	000108-88-3 000108-88-3 000108-88-3	91 91 91
8	2.746	1.12	D:\DATABASE\DEMO.L Cyclohexane, ethyl- §§ Ethylcyclohexane CYCLOHEXANE, ETHYL- §§ ETHYL CYCLOHEXANE §§ ETHYL CYCLOHEXAN Cyclohexane, ethyl- §§ Ethylcyclohexane	141506 141561 141508	001678-91-7 001678-91-7 001678-91-7	93 93 93
9	2.870	0.50	D:\DATABASE\DEMO.L BENZENE, METHYL- §§ METHYLBENZENE §§ TOLUENE §§ ANTISAL 1A 1,3,5-CYCLOHEPTATRIENE §§ CYCLOHEPTA-1,3,5-TRIENE §§ CYCLOHEPTATRIENE §§ CYCLOHEPTATRIENE (UN2603) [FLAMMABLE LIQUID] 1,3,5-Cycloheptatriene §§ Tropilidene §§ Cyclohepta-1,3,5-triene §§ Cycloheptatriene	158623 158636 158600	000108-88-3 000544-25-2 000544-25-2	90 90 90
10	4.615	0.02	D:\DATABASE\DEMO.L 2-OXABICYCLO[2.2.2]OCTANE, 1,3,3-TRIMETHYL- §§ 1, 8-CINBOL §§ 1,3,3-TRIMETHYL-2-OXABICYCLO[2.2.2]OCTANE §§ 1,3,3-TRIMETHYL-2-OXABICYCLO[2.2.2]OCTANE 2-OXABICYCLO[2.2.2]OCTANE, 1,3,3-TRIMETHYL- §§ 1, 8-CINBOL §§ 1,3,3-TRIMETHYL-2-OXABICYCLO[2.2.2]OCTANE §§ 1,3,3-TRIMETHYL-2-OXABICYCLO[2.2.2]OCTANE 2-OXABICYCLO[2.2.2]OCTANE, 1,3,3-TRIMETHYL- §§ 1, 8-CINBOL §§ 1,3,3-TRIMETHYL-2-OXABICYCLO[2.2.2]OCTANE §§ 1,3,3-TRIMETHYL-2-OXABICYCLO[2.2.2]OCTANE	23420 23430 23426	000470-82-6 000470-82-6 000470-82-6	95 95 93
11	17.315	0.04	D:\DATABASE\DEMO.L 2H-2,4A-METHANONAPHTHALENE, 1,3,4,5,6,7-HEXAHYDRO-1,1,5,5-TETRAMETHYL-, (2S)- §§ (-)-ISOLONGIPOLINE §§ (-)-ISOLONGIPOLINE §§ (2S)-1,3,4,5,6,7-HEXAHYDRO-1,1,5,5-TETRAMETHYL-2H-2,4A-METHANONAPHTHALENE 2H-2,4a-Methanonaphthalene, 1,3,4,5,6,7-hexahydro-1,1,5,5-tetramethyl-, (2S)- §§ 2H-2,4a-Methanonaphth	350800 350640	001135-66-6 001135-66-6	98 98

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Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			alene, 1,3,4,5,6,7-hexahydro-1,1,5,5-tetramethyl-, (2S,4aR)-(-)- §§ Isolongifolane §§ (-)-Isolongifolane			
			2H-2,4a-Methanonaphthalene, 1,3,4,5,6,7-hexahydro-1,1,5,5-tetramethyl-, (2S)- §§ 2H-2,4a-Methanonaphthalene, 1,3,4,5,6,7-hexahydro-1,1,5,5-tetramethyl-, (2S,4aR)-(-)- §§ Isolongifolane §§ (-)-Isolongifolane	350641	001135-66-6	98
2	17.720	0.01	D:\DATABASE\DEMO.L 2,2,3,3,4,4,5,5-OCTAFLUORO-N-(3-METHOXYPHENYL)PENTANAMIDE §§ PENTANAMIDE, 2,2,3,3,4,4,5,5-OCTAFLUORO-N-(3-METHOXYPHENYL)- 3-(3-OXO-3H-BENZO[P]CHROMEN-2-YL)-2,4(1H,3H)-QUINOLINEDIONE §§ 4-HYDROXY-3-(2-OXO-2H-1-OXA-3-PHENANTHRYL)-2(1H)-QUINOLINONE BENZENE, 1-(2-CYCLOHEXEN-1-YL-2-D)-4-METHOXY- §§ 3-(P-METHOXYPHENYL)(2-2H)CYCLOHEX-1-ENE	7474 7476 7344	339166-43-7	9 9 9
3	17.849	0.00	D:\DATABASE\DEMO.L 1,3-OXATHIOL-1-IUM, 4-HYDROXY-2-[(1-METHYLETHYL)THIO]-5-(TRIFLUOROACETYL)-, HYDROXIDE, INNER SALT §§ 2-ISOPROPYLTHIO-5-TRIFLUOROACETYL-1,3-OXATHIOLIUM-4-OLAT 4-BROMO-N-[(6-METHYL-2-PYRIDYL)AMINOMETHYL]PHTHALIMIDE §§ 5-BROMO-2-[(6-METHYL-2-PYRIDINYL)AMINO]METHYL)-1H-ISOINDOLE-1,3(2H)-DIONE Propanedioic acid, (hydroxyimino)-, diethyl ester §§ Bis-(ethoxycarbonyl)hydroxyiminoethane §§ Diethyl 2-(hydroxyimino)malonate #	7423 7473 2893	096088-83-4	9 9 4
4	28.610	0.01	D:\DATABASE\DEMO.L 4-(METHOXYMETHYL)-6-METHYL-2-PHENOXINYNICOTINONITRILE §§ PYRIDINE-3-CARBONITRILE, 4-METHOXYMETHYL-6-METHYL-2-PHENOXY- Diethyl diethylmalonate §§ Diethyl malonic acid diethyl ester §§ Propanedioic acid, diethyl-, diethyl ester §§ Diethylmalonate diethyl ester 4-BROMO-N-[(6-METHYL-2-PYRIDYL)AMINOMETHYL]PHTHALIMIDE §§ 5-BROMO-2-[(6-METHYL-2-PYRIDINYL)AMINO]METHYL)-1H-ISOINDOLE-1,3(2H)-DIONE	7413 3074 7473	332057-36-0	12 9 9
5	28.929	0.01	D:\DATABASE\DEMO.L 1,3-OXATHIOL-1-IUM, 4-HYDROXY-2-[(1-METHYLETHYL)THIO]-5-(TRIFLUOROACETYL)-, HYDROXIDE, INNER SALT §§ 2	7423	096088-83-4	9

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Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			-ISOPROPYLTHIO-5-TRIFLUORACETYL-1, 3-OXATHIOLYIUM-4-OLAT			
			PHENOL, 2-SEC-BUTYL-4-(METHYLTHIO)-6-NITRO-	132	000000-00-0	9
			9-(4-HYDROXYPHENYL)-3,3,6,6-TETRAMETHYL-3,4,6,7,8A,9-HEXAHYDRO-1,8(2H,5H)-ACRIDINEDIONE	7482	999007-48-3	9
6	30.306	0.04	D:\DATABASE\DEMO.L			
			PIMARA-8,15-DIENE §§ PHENANTHRENE, 7-ETHENYL-1,2,3,4,4A,5,6,7,8,9,10,10A-DODECAHYDRO-1,1,4A,7-TETRAMETHYL- §§ 7.ALPHA.-ETHENYL-1,1,4A,7.BETA.-TETRAMETHYL-1,2,3,4,4A,5,6,7,8,9,10,10A-DODECAHYDROPHENANTHRENE	481165	055255-56-6	93
			PHENANTHRENE, 7-ETHENYL-1,2,3,4,4A,5,6,7,8,9,10,10A-DODECAHYDRO-1,1,4A,7-TETRAMETHYL-, [4AS-(4A.ALPHA.,7.ALPHA.,10A.BETA.)]- §§ PIMARA-8(9),15-DIENE §§ PODOCARD-8-ENE, 13.ALPHA.-METHYL-13-VINYL-	481161	018319-61-4	93
			Phenanthrene, 7-ethenyl-1,2,3,4,4a,5,6,7,8,9,10,10a-dodecahydro-1,1,4a,7-tetramethyl- §§ Pimara-8,15-diene #	481092	055255-56-6	91
7	30.717	0.01	D:\DATABASE\DEMO.L			
			4-(METHOXYMETHYL)-6-METHYL-2-PHENOPYRINONITRILE §§ PYRIDINE-3-CARBONITRILE, 4-METHOXYMETHYL-6-METHYL-2-PHENOXY-	7413	332057-36-0	27
			1,3-OXATHIOL-1-IUM, 4-HYDROXY-2-[(1-METHYLETHYL)THIO]-5-(TRIFLUOROACETYL)-, HYDROXIDE, INNER SALT §§ 2-ISOPROPYLTHIO-5-TRIFLUORACETYL-1,3-OXATHIOLYIUM-4-OLAT	7423	096088-83-4	9
			9-(4-HYDROXYPHENYL)-3,3,6,6-TETRAMETHYL-3,4,6,7,8A,9-HEXAHYDRO-1,8(2H,5H)-ACRIDINEDIONE	7482	999007-48-3	9
8	31.268	0.01	D:\DATABASE\DEMO.L			
			4-(METHOXYMETHYL)-6-METHYL-2-PHENOPYRINONITRILE §§ PYRIDINE-3-CARBONITRILE, 4-METHOXYMETHYL-6-METHYL-2-PHENOXY-	7413	332057-36-0	27
			L-Alanine, N-glycyl- §§ Alanine, N-glycyl-, L- §§ Glycylalanine §§ Gly-ala	4366	003695-73-6	7
			1-Nonanamine §§ Nonylamine §§ n-Nonylamine §§ 1-Aminononane	4312	000112-20-9	7
9	31.311	0.00	D:\DATABASE\DEMO.L			
			ACETIC ACID, TRICHLORO-, ETHYL ESTER §§ ACETIC ACID, 2,2,2-TRICHLOROETHYL ESTER §§ ACETIC ACID, ESTER WITH TRICHLOROETHANOL §§ ACETIC ACID, TRICHLORO-, ETHYL ESTER	2904	000515-84-4	2
			Acetic acid, trichloro-, ethyl ester §§ Ethyl trichloroacetate §§ Acetic acid, trichloro-, ethyl ester	2897	000515-84-4	2

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Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			etic acid, ester with trichloroethanol §§ Acetic acid, 2,2,2-trichloroethyl ester			
			2-BUTENE, 1-BROMO-3-METHYL- §§ 1-BROMO-3-METHYL-BUT-2-ENE §§ .GAMMA., .GAMMA.-DIMETHYLALLYL BROMIDE §§ 1-BROMO-3-METHYL-2-BUTENE	673	000870-63-3	2
20	31.700	0.02	D:\DATABASE\DEMO.L Ethanedicarboxamide, N-allyl-N'-(2,5-dimethylphenyl)- .ALPHA.-METHYL-4-METHOXY-STYRENE § § 1-ISOPROPENYL-4-METHOXYBENZENE § § 4-ISOPROPENYLPHENYL METHYL ETHER 13-OXABICYCLO[8.2.1]TRIDEC-1(12)-E N-11-ONE	7392	331864-72-3	2
				1191	999001-19-1	2
				7353	000000-00-0	1
21	31.835	0.01	D:\DATABASE\DEMO.L 2,2,3,3,4,4,4-Heptafluoro-butanol §§ 2,2,3,3,4,4,4,-Heptafluoro-1-butanol §§ 1H,1H-Heptafluoro-1-butanol §§ Perfluoro-1,1-dihydrobutanol 2,2,3,3,4,4,4-Heptafluoro-butanol §§ 2,2,3,3,4,4,4,-Heptafluoro-1-butanol §§ 1H,1H-Heptafluoro-1-butanol §§ Perfluoro-1,1-dihydrobutanol	5574	000375-01-9	1
				5572	000375-01-9	1
22	32.019	0.01	D:\DATABASE\DEMO.L Triethyl 1,2,3-tricarbonitrile-1,2,3-tricarboxylate	3424	999003-42-5	1
23	32.089	0.02	D:\DATABASE\DEMO.L 4-(METHOXYMETHYL)-6-METHYL-2-PHENOXYNICOTINONITRILE §§ PYRIDINE-3-CARBONITRILE, 4-METHOXYMETHYL-6-METHYL-2-PHENOXY- 9-(4-HYDROXYPHENYL)-3,3,6,6-TETRAMETHYL-3,4,6,7,8A,9-HEXAHYDRO-1,8(2H,5H)-ACRIDINEDIONE 1-Undecanamine §§ Undecylamine §§ n-Undecylamine §§ Hendecylamine	7413	332057-36-0	22
				7482	999007-48-3	17
				4551	007307-55-3	9
24	32.402	0.01	D:\DATABASE\DEMO.L Carbamic acid, 1-naphthalenyl-, methyl ester §§ Methyl N-.alpha.-naphthylcarbamate §§ Methyl N-(1-naphthyl)carbamate §§ Methyl 1-naphthalenecarbamate Carbamic acid, 1-naphthalenyl-, methyl ester §§ Methyl N-.alpha.-naphthylcarbamate §§ Methyl N-(1-naphthyl)carbamate §§ Methyl 1-naphthalenecarbamate Pyrimidine, 2,4-diamino-5-(3-pyridylmethyl)- §§ 2,4-Diamino-5-(3-pyridylmethyl)-pyrimidine §§ 2,4-Pyrimidinodiamine, 5-(3-pyridinylmethyl)- §§ 2,4-Diamino-5-[3-pyridylmethyl]pyrimidine	419171	005449-00-3	25
				419116	005449-00-3	25
				419153	052606-04-9	25

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Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area%	Library/ID	Ref#	CAS#	Qual
25	32.451	0.01	D:\DATABASE\DEMO.L 2-CHLORO-4-NITROBENZOIC ACID Acetic acid, 1-cyano-1-(cyclohexan -1-yl)-1-(3-oxocyclopent-1-en-1-yl)-, ethyl ester CYCLOPROPANECARBONYL CHLORIDE, 2,2 -DIBROMO-1-METHYL- §§ 2,2-DIBROMO- 1-METHYLCYCLOPROPANECARBONYL CHLOR IDE	339 3292 7425	000099-60-5 999003-29-3 005365-22-0	7 1 1
26	32.975	0.01	D:\DATABASE\DEMO.L 4-(METHOXYMETHYL)-6-METHYL-2-PHENO XYNICOTINONITRILE §§ PYRIDINE-3-CA RBNITRILE, 4-METHOXYMETHYL-6-METH YL-2-PHENOXY- 1-Tetradecanamine §§ Tetradecylami na §§ Armeen 14 §§ Myristylamine 1-Dodecanamine §§ Dodecylamine §§ n-Dodecylamine §§ Alanine 4	7413 4817 4652	332057-36-0 002016-42-4 000124-22-1	12 9 9
27	33.386	0.01	D:\DATABASE\DEMO.L L-Alanine, N-glycyl- §§ Alanine, N -glycyl-, L- §§ Glycylalanine §§ Gl y-ala 4-(METHOXYMETHYL)-6-METHYL-2-PHENO XYNICOTINONITRILE §§ PYRIDINE-3-CA RBNITRILE, 4-METHOXYMETHYL-6-METH YL-2-PHENOXY- N-(CYCLOHEXYLCARBONYL)-4-MORPHOLIN ECARBOXAMIDE §§ CYCLOHEXANECARBOXA MIDE, N-(4-MORPHOLYLCARBONYL)- §§ N-(4-MORPHOLINYLCARBONYL)CYCLOHEXA NECARBOXAMIDE	4366 7413 7397	003695-73-6 332057-36-0 339162-13-9	14 12 10
28	33.499	0.12	D:\DATABASE\DEMO.L Phenanthrene, 7-ethenyl-1,2,3,4,4a ,5,6,7,8,9,10,10a-dodecahydro-1,1, 4a,7-tetramethyl- §§ Pimara-8,15-d iene # PIMARA-8,15-DIENE §§ PHENANTHRENE, 7-ETHENYL-1,2,3,4,4A,5,6,7,8,9,10 ,10A-DODECAHYDRO-1,1,4A,7-TETRAMET HYL- §§ 7.ALPHA.-ETHENYL-1,1,4A,7. BETA.-TETRAMETHYL-1,2,3,4,4A,5,6,7 ,8,9,10,10A-DODECAHYDROPHENANTHREN PHENANTHRENE, 7-ETHENYL-1,2,3,4,4A ,5,6,7,8,9,10,10A-DODECAHYDRO-1,1, 4A,7-TETRAMETHYL-, [4AS-(4A.ALPHA. ,7.ALPHA.,10A.BETA.)]- §§ PIMARA-8 (9),15-DIENE §§ PODOCARD-8-ENE, 13 .ALPHA.-METHYL-13-VINYL-	481092 481165 481161	055255-56-6 055255-56-6 018319-61-4	86 86 84
29	33.623	0.00	D:\DATABASE\DEMO.L 1-Hexadecanamine §§ Hexadecylamine §§ n-Cetylamine §§ n-Hexadecylami na 2-METHOXY-4-(METHOXYMETHYL)-6-METH YLNICOTINONITRILE §§ PYRIDINE-3-CA	4902 7347	000143-27-1 063644-84-8	27 22

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Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

K#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			RBONITRILE, 2,4-DIMETHOXY-6-METHYL Taurolidina §§ 2H-1,2,4-Thiadiazin e, 4,4'-methylenebis[tetrahydro-, 1,1,1',1'-tetraxide §§ 4,4'-Methy lenebis(tetrahydro-1,2,4-thiadiaz ine 1,1-dioxide) §§ Taurolin	4983	019388-87-5	16
30	33.683	0.00	D:\DATABASE\DEMO.L 1-Hexadecanamine §§ Hexadecylamine §§ n-Cetylamine §§ n-Hexadecylami ne 1-Tetradecanamine §§ Tetradecylami ne §§ Armeen 14 §§ Myristylamine 1-Tetradecanamine §§ Tetradecylami ne §§ Armeen 14 §§ Myristylamine	4902	000143-27-1	22
				4817	002016-42-4	10
				4815	002016-42-4	9
31	33.710	0.00	D:\DATABASE\DEMO.L 1-Hexadecanamine §§ Hexadecylamine §§ n-Cetylamine §§ n-Hexadecylami ne 2-METHOXY-4-(METHOXYMETHYL)-6-METH YLNICOTINONITRILE §§ PYRIDINE-3-CA RBONITRILE, 2,4-DIMETHOXY-6-METHYL 2-(3-BUTOXY-2-HYDROXYPROPYL)MALONO HYDRAZIDE §§ MALONODIHYDRAZIDE, 2- (3-BUTOXY-2-HYDROXYPROPYL)-	4902	000143-27-1	23
				7347	063644-84-8	22
				7415	331648-87-4	10
32	33.796	0.03	D:\DATABASE\DEMO.L KAUR-16-EN-18-OIC ACID §§ KAUR-16- EN-18-OIC ACID, (4.BETA.)- §§ (-)- KAURNENOIC ACID §§ (4-BETA.)-KAUR-1 6-EN-18-OIC ACID ABIETA-7,13-DIEN-18-OIC ACID §§ 1- PHENANTHRENECARBOXYLIC ACID, 1,2,3 ,4,4A,4B,5,6,10,10A-DECAHYDRO- §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, [1 R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A .ALPHA.)]- ABIETA-7,13-DIEN-18-OIC ACID §§ 1- PHENANTHRENECARBOXYLIC ACID, 1,2,3 ,4,4A,4B,5,6,10,10A-DECAHYDRO- §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, [1 R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A .ALPHA.)]-	168418	020316-84-1	41
				168420	000514-10-3	15
				168419	000514-10-3	11
33	33.866	0.06	D:\DATABASE\DEMO.L 10,13-DIMETHYL-4,5,6,7,8,9,10,11,1 2,13,14,15-DODECAHYDRO-1H-CYCLOPEN TA[A] PHENANTHRENE §§ ANDROSTA-2,16 -DIENE 1-Methyl-10,18-bisnorabieta-8,11,1 3-triene 4-(N-METHYLAMINO)-6,7-(1,2,3,4-TET RAHYDRO-1,1,4,4-TETRAMETHYLBENZO)I NDOLE	466180	999466-18-8	95
				466158	999466-16-6	94
				466219	000000-00-0	90

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 ALS Vial : 3 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area%	Library/ID	Ref#	CAS#	Qual
34	34.142	0.02	D:\DATABASE\DEMO.L Taurolidine §§ 2H-1,2,4-Thiadiazin e, 4,4'-methylenebis(tetrahydro-, 1,1,1',1'-tetraxide §§ 4,4'-Methy lenebis(tetrahydro-1,2,4-thiadiaz ine 1,1-dioxide) §§ Taurolin Ethyl 2-((diethoxyphosphoryl)oxy)- 3,3,3-trifluoropropanoate	4983	019388-87-5	9
				3375	999003-37-6	4
35	34.207	0.02	D:\DATABASE\DEMO.L Ethanedicarboxamide, N-allyl-N'-(2 ,5-dimethylphenyl)- .ALPHA.-METHYL-4-METHOXY-STYRENE § § 1-ISOPROPENYL-4-METHOXYBENZENE § § 4-ISOPROPENYLPHENYL METHYL ETHER Ethyl 2-((diethoxyphosphoryl)oxy)- 3,3,3-trifluoropropanoate	7392	331864-72-3	10
				1191	999001-19-1	2
				3375	999003-37-6	1
36	34.320	0.03	D:\DATABASE\DEMO.L 1-Phenanthrenecarboxylic acid, 7-a thenyl-1,2,3,4,4a,5,6,7,8,9,10,10a -dodecahydro-1,4a,7-trimethyl-, me thyl ester, [1R-(1.alpha.,4a.beta. ,7.beta.,10a.alpha.)]- §§ Podocarp -8-en-15-oic acid, 13.alpha.-methyl 1-13-vinyl-, methyl ester METHYL PIMARA-8,15-DIEN-18-OATE §§ 1-PHENANTHRENECARBOXYLIC ACID, 7- ETHENYL-1,2,3,4,4A,5,6,7,8,9,10,10 A-DODECAHYDRO-1,4A,7-TRIMETHYL-, M ETHYL ESTER, [1R-(1.ALPHA.,4A.BETA .,7.BETA.,10A.ALPHA.)]- §§ METHYL 8,15-PIMARADIEN-18-OATE ISOPIMARA-7,15-DIEN-18-OIC ACID ME THYL ESTER	466507	003582-26-1	83
				466513	003582-26-1	64
				466522	000000-00-0	58
37	34.428	0.00	D:\DATABASE\DEMO.L 2H-3,9A-METHANO-1-BENZOXEPIN, OCTA HYDRO-2,2,5A,9-TETRAMETHYL-, [3R-(3.ALPHA.,5A.ALPHA.,9.ALPHA.,9A.ALP HA.)]- §§ .BETA.-AGAROFURAN, DIHYD RO- §§ .BETA.-DIHYDROAGAROFURAN §§ 2H-3,9A-METHANO-1-BENZOXEPIN, OCT AHYDRO-2,2,5A,9-TETRAMETHYL- 2-METHOXY-4-(METHOXYMETHYL)-6-METH YLNICOTINONITRILE §§ PYRIDINE-3-CA RBONITRILE, 2,4-DIMETHOXY-6-METHYL QUINOLIDINIUM-METHANESULFONATE	3110	005956-09-2	7
				7347	063644-84-8	2
				3027	126821-96-3	1
38	34.536	0.10	D:\DATABASE\DEMO.L 1,2,4-TRIAZOLO(3,4-C)(1,2,4)-BENZO TRIAZIN-1(5H)-ONE 15-OXABICYCLO[12.1.0]PENTADEC-4,8 -DIENE, 1,5,9-TRIMETHYL-12-(1-METH YLETHENYL)-, [1S-(1R*,4R,8R,12S*,1 4R*)]- §§ (1R,3S,4S,7E,11E)-3,4-EP OXYCEMBRA-7,11,15-TRIENE 1,4,8-CYCLODODRACATRIENE-1-CARBOXYL	282352	000000-00-0	53
				181486	079897-31-7	47
				164771	057709-14-5	38

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Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

%#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			IC ACID, 12-ETHENYL-, METHYL ESTER (E,E,E)- §§ METHYL 12-VINYLCYCLO DODECA-1,4,8-TRIENECARBOXYLATE			
39	34.785	0.02	D:\DATABASE\DEMO.L 2H-3,9A-METHANO-1-BENZOXEPIN, OCTA HYDRO-2,2,5A,9-TETRAMETHYL-, [3R-(3.ALPHA.,5A.ALPHA.,9.ALPHA.,9A.ALP HA.)]- §§ .BETA.-AGAROPURAN, DIHYD RO- §§ .BETA.-DIHYDROAGAROPURAN §§ 2H-3,9A-METHANO-1-BENZOXEPIN, OCT AHYDRO-2,2,5A,9-TETRAMETHYL- 3-Benzyl-2-(2-furyl)-3,4-dihydro-4 -quinazolinone §§ 3-Benzyl-2-(2-fu ryl)-4(3H)-quinazolinone # 3-BENZYL-2-(2-FURYL)-4(3H)-QUINAZO LINONE §§ 3-BENZYL-2-(2-FURYL)-3,4 -DIHYDRO-4-QUINAZOLINONE	3110	005956-09-2	25
40	34.914	0.02	D:\DATABASE\DEMO.L 2H-3,9A-METHANO-1-BENZOXEPIN, OCTA HYDRO-2,2,5A,9-TETRAMETHYL-, [3R-(3.ALPHA.,5A.ALPHA.,9.ALPHA.,9A.ALP HA.)]- §§ .BETA.-AGAROPURAN, DIHYD RO- §§ .BETA.-DIHYDROAGAROPURAN §§ 2H-3,9A-METHANO-1-BENZOXEPIN, OCT AHYDRO-2,2,5A,9-TETRAMETHYL- ETHYL 2,2-DIFLUORO-4-iodooctanoate Diethyl 3-chloro-2-hydroxypropylma lonate	3110	005956-09-2	7
				3430	127224-09-3	4
				3235	999003-23-6	2
41	35.033	0.03	D:\DATABASE\DEMO.L 1-ACETYLAMINO-5,5-DIMETHOXY-2,3-DI METHYL-2(E)-PENTENE 2-Methylbutanoic acid, 3-(t-butylid imethylsilyloxy)- §§ 3-([tert-Buty l(dimethyl)silyloxy)-2-methylbuta noic acid # Benzene, 1-[(dimethoxymethyl)-1-ot hyl]-4-methoxycarbonyl-1-ethyl-	122973	000000-00-0	59
				123203	108782-00-9	53
				123523	999123-52-6	53
42	35.168	0.03	D:\DATABASE\DEMO.L KAUR-16-EN-18-OIC ACID §§ KAUR-16- EN-18-OIC ACID, (4.BETA.)- §§ (-)- KAURNENOIC ACID §§ (4-BETA)-KAUR-1 6-EN-18-OIC ACID ABIETA-7,13-DIEN-18-OIC ACID §§ 1- PHENANTHRENECARBOXYLIC ACID, 1,2,3 ,4,4A,4B,5,6,10,10A-DECAHYDRO- §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, [1 R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A .ALPHA.)]- BUTYL 2-(METHYLAMINO)BENZOATE §§ A NTHRANILIC ACID, N-METHYL-, BUTYL ESTER §§ N-BUTYL O-METHYLAMINOBENZ OATE	168418	020316-84-1	49
				168420	000514-10-3	15
				209256	015236-34-7	14

Data Path : F:\DATA MS\daa\
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 ALS Vial : 3 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area%	Library/ID	Ref#	CAS#	Qual
43	35.303	0.01	D:\DATABASE\DEMO.L 2-((E)-[[(E)-2-((E)-(2-HYDROXYPHENYL)METHYLIDENE)AMINO]PROPYL]IMINO]METHYL)PHENOL §§ .ALPHA.,.ALPHA.'-(1-METHYLETHYLENEDIIMINO)DI-ORTHO-CRESOL §§ .ALPHA.,.ALPHA.'-DIPROPYLENEDIINITRILODI-O-CRESOL §§ ALPHA,ALPHA'-(1-METHYLETHYLENEDIIMINO)DI-ORTHO-CRESOL 3-Methylindole-2-carboxylic acid, 428008 037945-37-2 25 4,5,6,7-tetrahydro-, ethyl ester § § Ethyl 3-methyl-4,5,6,7-tetrahydro-1H-indole-2-carboxylate # 1-Dimethylisopropylsilyloxy-3-methylbut-2-ene 122592 999122-59-5 18	45719	000094-91-7	40
44	35.400	0.03	D:\DATABASE\DEMO.L 2-(ACETYLAMINO)PHENYL ACETATE §§ A CETIC ACID 2-ACETYLAMINO-PHENYL ESTER 1,3,4-Thiadiazol-2-amine, 5-[[[4-(4-cyclophenyl)methyl]thio]-PHENOL, 3-AMINO- §§ 3-AMINOPHENOL §§ 1-AMINO-3-HYDROXYBENZENE §§ 3-AMINO-1-HYDROXYBENZENE 227934 999227-93-7 38 228627 999228-63-0 38 226836 000591-27-5 30	227934	999227-93-7	38
45	35.487	0.85	D:\DATABASE\DEMO.L BENZ[A]ANTHRACENE (4-Ethylphenyl)-(2-methylbenzo[4,5]imidazo[1,2-a]pyrimidin-4-yl)amine ROSIN ACIDS 513655 099707-96-7 83 504586 999504-59-8 72 504611 000000-00-0 64	513655	099707-96-7	83
46	35.665	0.08	D:\DATABASE\DEMO.L 1-PHENANTHRENECARBOXYLIC ACID, 7-E THENYL-1,2,3,4,4A,4B,5,6,7,8,10,10A-DODECAHYDRO-1,4A,7-TRIMETHYL-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,7.ALPHA.,10A.ALPHA.)]- §§ ISOPIMARIC ACID §§ PODOCARP-7-RN-15-OIC ACID, 13.BETA.-METHYL-13-VINYLS-(7-ISOPROPYL-1,4-DIMETHYL-2-AZULENYL)(PHENYL)METHANONE §§ METHANONE, [1,4-DIMETHYL-7-(1-METHYLETHYL)-2-AZULENYL]PHENYL- §§ 2-BENZOYLGUAI AZULENE Androst-5-en-17-ol, 4,4-dimethyl- 513436 999513-44-9 38	466436	005835-26-7	45
47	35.762	0.24	D:\DATABASE\DEMO.L DEHYDROABIETIC ACID 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-, methyl ester, [1R-(1.alpha.,4a.beta.,10a.alpha.)]- §§ Podocarpa-8,11,13-trien-15-oic acid, 13-isopropyl-, methyl ester §§ Methyl dehydroabietate 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,9,10,10a-octahydro-1,4a-di 464556 000000-00-0 97 464538 001235-74-1 93 464536 001235-74-1 93	464556	000000-00-0	97

Data Path : F:\DATA MS\daa\
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Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

k#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			methyl-7-(1-methylethyl)-, methyl ester, [1R-(1.alpha.,4a.beta.,10a.alpha.)]- §§ Podocarpa-8,11,13-trien-15-oic acid, 13-isopropyl-, methyl ester §§ Methyl dehydroabietat			
48	35.930	0.08	D:\DATABASE\DEMO.L Palustric acid §§ Podocarpa-8,13-dien-15-oic acid, 13-isopropyl- §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,5,6,9,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, (1R-(1.alpha.,4a.beta.,10a.alpha.))- §§ 8,13-Abietadien-18-oic acid 2-ACETYL-4,9-DIMETHOXY-7-METHYL-5H-FURO[3,2-C][1]-BENZOPYRAN-5-ONE CYCLOPROPANECARBONITRILE, 1,1'-[IMINOBIS(METHYLENE)]BIS[2,2,3,3-TETRAMETHYL- §§ 2,2,2',2',3,3,3'-OC TAMETHYL-1,1'-IMINEBIS(METHYLENE)DICYCLOPROPANE-1,1'-DICARBONITRILE	513439	001945-53-5	43
49	36.011	0.08	D:\DATABASE\DEMO.L Kaura-9(11),16-dien-18-oic acid, (4.alpha.)- §§ Kaura-5,16-dien-18(or 19)-oic acid §§ (-)-Kaur-9(11),16-dien-19-oic acid §§ Grandiflorenic acid KAURA-9(11),16-DIEN-18-OIC ACID, (4.ALPHA.)- §§ (-)-KAUR-9(11),16-DIEN-19-OIC ACID §§ GRANDIFLORENIC ACID §§ KAURA-5,16-DIEN-18(OR 19)-OIC ACID 1-Hydroxy-3,7,8-trimethoxyxantheny-9-one §§ 8-Hydroxy-1,2,6-trimethoxy-9H-xanthen-9-one #	503103	022338-67-6	64
50	36.103	0.47	D:\DATABASE\DEMO.L INDOLIZINO[1,2-B]QUINOLIN-9(11H)-ONE, 8-[(FORMYLOXY)METHYL]-7-(1-OXOPROPYL)- §§ 8-FORMYLOXYMETHYL-7-(1-OXOPROPYL)INDOLIZINO[1,2-B]QUINOLIN-9(11H)-ONE KAUR-16-EN-18-OIC ACID §§ KAUR-16-EN-18-OIC ACID, (4.BETA.)- §§ (-)-KAURNENOIC ACID §§ (4-BETA)-KAUR-16-EN-18-OIC ACID Phenol, 2,4-bis(1-phenylethyl)- §§ 2,4-Bis(1-phenylethyl)phenol #	504762	054318-62-6	70
51	36.389	0.24	D:\DATABASE\DEMO.L METHYL ABIETA-7,13-DIEN-18-OATE §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, METHYL ESTER, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A.ALPHA.)]- §§ ABALYIN §§ ABIETIC ACID METHYL ESTER Methyl abietate §§ 1-Phenanthrenec	258918	000127-25-3	97
				258889	000127-25-3	97

Data Path : F:\DATA MS\daa\
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Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

%#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			arboxylic acid, 1,2,3,4,4a,4b,5,6, 10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, methyl ester, [1R -(1.alpha.,4a.beta.,4b.alpha.,10a. alpha.)]- §§ Podocarpa-7,13-dien-1 5-oic acid, 13-isopropyl-, methyl ester §§ Abalyn			
			METHYL ABIETA-7,13-DIEN-18-OATE §§	480551	000127-25-3	94
			1-PHENANTHRENECARBOXYLIC ACID, 1, 2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, M ETHYL ESTER, [1R-(1.ALPHA.,4A.BETA .4B.ALPHA.,10A.ALPHA.)]- §§ ABALY N §§ ABIETIC ACID METHYL ESTER			
52	36.600	0.63	D:\DATABASE\DEMO.L			
			Phenol, 2,4-bis(1-phenylethyl)- §§	504578	002769-94-0	94
			2,4-Bis(1-phenylethyl)phenol #			
			KAUR-16-EN-18-OIC ACID §§ KAUR-16- EN-18-OIC ACID, (4.BETA.)- §§ (-)- KAURENOIC ACID §§ (4-BETA.)-KAUR-1 6-EN-18-OIC ACID	168418	020316-84-1	91
			O-HYDROGEN PERDEUTERIO HEXADECANOI C ACID	504545	039756-30-4	90
53	36.756	0.33	D:\DATABASE\DEMO.L			
			1H-NAPHTHO[2,3-C]PYRAN-5,10-DIONE, 3,4-DIHYDRO-7,9-DIMETHOXY-1,3-DIM ETHYL-, TRANS-(+.-)- §§ (+,-)-DEO XYQUINCONE A DIMETHYL ETHER §§ (+,-)-TRANS-7,9-DIMETHOXY-1,3-DIMETHYL -3,4,5,10-TETRAHYDRONAPHTHO[2,3-C] PYRAN-5,10-DIONE	513557	084018-44-0	91
			1H-NAPHTHO[2,3-C]PYRAN-5,10-DIONE, 3,4-DIHYDRO-7,9-DIMETHOXY-1,3-DIM ETHYL-, CIS-(+.-)- §§ (+,-)-CIS-7 -9-DIMETHOXY-1,3-DIMETHYL-3,4,5,10 -TETRAHYDRONAPHTHO[2,3-C]PYRAN-5,1 0-DIONE	513558	084018-43-9	91
			3-ACETYL-1-METHYL-2-(1'-METHYL-1H- INDOL-2'-YL)-1H-INDOLE	513641	000000-00-0	80
54	36.967	0.53	D:\DATABASE\DEMO.L			
			1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, [1R-(1. alpha.,4a.beta.,10a.alpha.)]- §§ P odocarpa-8,11,13-trien-15-oic acid , 13-isopropyl- §§ Abieta-8,11,13- trien-18-oic acid §§ Abietic acid, dehydro-	503093	001740-19-8	97
			1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,9,10,10A-OCTAHYDRO-1,4A-DI METHYL-7-(1-METHYLETHYL)-, [1R-(1. ALPHA.,4A.BETA.,10A.ALPHA.)]- §§ (-)-DEHYDROABIETIC ACID §§ 1,2,3,4, 4A,9,10,10A-OCTAHYDRO-1,4A-DIMETHY L-7-(1-METHYLETHYL)-1-PHENANTHRENE CARBOXYLIC ACID	503110	001740-19-8	97

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Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

k#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			ABIETA-8,11,13-TRIEN-18-OIC ACID § § PODOCARPA-8,11,13-TRIEN-15-SAEUR E, 13-ISOPROPYL-	503106	999503-11-8	97
55	37.032	0.60	D:\DATABASE\DEMO.L ABIETA-8,11,13-TRIEN-18-OIC ACID § § PODOCARPA-8,11,13-TRIEN-15-SAEUR E, 13-ISOPROPYL- 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, [1R-(1. alpha.,4a.beta.,10a.alpha.)]- §§ P odocarpa-8,11,13-trien-15-oic acid , 13-isopropyl- §§ Abieta-8,11,13- trien-18-oic acid §§ Abietic acid, dehydro- 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,9,10,10A-OCTAHYDRO-1,4A-DI METHYL-7-(1-METHYLETHYL)-, [1R-(1. ALPHA.,4A.BETA.,10A.ALPHA.)]- §§ (-)-DEHYDROABIETIC ACID §§ 1,2,3,4, 4A,9,10,10A-OCTAHYDRO-1,4A-DIMETHY L-7-(1-METHYLETHYL)-1-PHENANTHERENE CARBOXYLIC ACID	503106	999503-11-8	83
			1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, [1R-(1. ALPHA.,4A.BETA.,10A.ALPHA.)]- §§ (-)-DEHYDROABIETIC ACID §§ 1,2,3,4, 4A,9,10,10A-OCTAHYDRO-1,4A-DIMETHY L-7-(1-METHYLETHYL)-1-PHENANTHERENE CARBOXYLIC ACID	503093	001740-19-8	83
			1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,9,10,10A-OCTAHYDRO-1,4A-DI METHYL-7-(1-METHYLETHYL)-, [1R-(1. ALPHA.,4A.BETA.,10A.ALPHA.)]- §§ (-)-DEHYDROABIETIC ACID §§ 1,2,3,4, 4A,9,10,10A-OCTAHYDRO-1,4A-DIMETHY L-7-(1-METHYLETHYL)-1-PHENANTHERENE CARBOXYLIC ACID	503110	001740-19-8	83
56	37.237	0.28	D:\DATABASE\DEMO.L ABIETA-7,13-DIEN-18-OIC ACID §§ 1- PHENANTHRENECARBOXYLIC ACID, 1,2,3 ,4,4A,4B,5,6,10,10A-DECAHYDRO- §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, [1 R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A .ALPHA.)]- Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid 1H-NAPHTHO[2,3-C]PYRAN-5,10-DIONE, 3,4-DIHYDRO-7,9-DIMETHOXY-1,3-DIM ETHYL-, CIS-(+.-)- §§ (+.-)-CIS-7 ,9-DIMETHOXY-1,3-DIMETHYL-3,4,5,10 -TETRAHYDRONAPHTHO[2,3-C]PYRAN-5,1 0-DIONE	168419	000514-10-3	86
			Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid 1H-NAPHTHO[2,3-C]PYRAN-5,10-DIONE, 3,4-DIHYDRO-7,9-DIMETHOXY-1,3-DIM ETHYL-, CIS-(+.-)- §§ (+.-)-CIS-7 ,9-DIMETHOXY-1,3-DIMETHYL-3,4,5,10 -TETRAHYDRONAPHTHO[2,3-C]PYRAN-5,1 0-DIONE	513378	000514-10-3	60
			1H-NAPHTHO[2,3-C]PYRAN-5,10-DIONE, 3,4-DIHYDRO-7,9-DIMETHOXY-1,3-DIM ETHYL-, CIS-(+.-)- §§ (+.-)-CIS-7 ,9-DIMETHOXY-1,3-DIMETHYL-3,4,5,10 -TETRAHYDRONAPHTHO[2,3-C]PYRAN-5,1 0-DIONE	513558	084018-43-9	58
57	37.270	0.26	D:\DATABASE\DEMO.L ABIETA-7,13-DIEN-18-OIC ACID §§ 1- PHENANTHRENECARBOXYLIC ACID, 1,2,3 ,4,4A,4B,5,6,10,10A-DECAHYDRO- §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, [1 R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A .ALPHA.)]- ABIETA-7,13-DIEN-18-OIC ACID §§ 1- PHENANTHRENECARBOXYLIC ACID, 1,2,3	168419	000514-10-3	93
			ABIETA-7,13-DIEN-18-OIC ACID §§ 1- PHENANTHRENECARBOXYLIC ACID, 1,2,3 ,4,4A,4B,5,6,10,10A-DECAHYDRO- §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, [1 R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A .ALPHA.)]- ABIETA-7,13-DIEN-18-OIC ACID §§ 1- PHENANTHRENECARBOXYLIC ACID, 1,2,3	168420	000514-10-3	83

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsn-140c-3jm.D
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 Operator :
 Sample :
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

%#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			.4,4A,4B,5,6,10,10A-DECAHYDRO- §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2, .3,4,4A,4B,5,6,10,10A-DECAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, [1 R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A .ALPHA.)]-			
			Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid	513344	000514-10-3	70
58	37.378	0.14	D:\DATABASE\DEMO.L			
			ABIETA-7,13-DIEN-18-OIC ACID §§ 1- PHENANTHRENECARBOXYLIC ACID, 1,2,3 .4,4A,4B,5,6,10,10A-DECAHYDRO- §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2 .3,4,4A,4B,5,6,10,10A-DECAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, [1 R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A .ALPHA.)]-	168419	000514-10-3	70
			Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid	513378	000514-10-3	70
			ABIETA-7,13-DIEN-18-OIC ACID §§ 1- PHENANTHRENECARBOXYLIC ACID, 1,2,3 .4,4A,4B,5,6,10,10A-DECAHYDRO- §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2 .3,4,4A,4B,5,6,10,10A-DECAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, [1 R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A .ALPHA.)]-	168420	000514-10-3	68
59	37.410	0.05	D:\DATABASE\DEMO.L			
			ABIETA-7,13-DIEN-18-OIC ACID §§ 1- PHENANTHRENECARBOXYLIC ACID, 1,2,3 .4,4A,4B,5,6,10,10A-DECAHYDRO- §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2 .3,4,4A,4B,5,6,10,10A-DECAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, [1 R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A .ALPHA.)]-	168420	000514-10-3	83
			ABIETA-7,13-DIEN-18-OIC ACID §§ 1- PHENANTHRENECARBOXYLIC ACID, 1,2,3 .4,4A,4B,5,6,10,10A-DECAHYDRO- §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2 .3,4,4A,4B,5,6,10,10A-DECAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, [1 R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A .ALPHA.)]-	168419	000514-10-3	78
			Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m	513344	000514-10-3	70

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsen-140c-3jm.D
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 Sample :
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

K#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			ethyl-ethyl)-, [1R-(1.alpha.,4a.beta. a.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- §§ L-abiatic acid			
60	37.437	0.23	D:\DATABASE\DEMO.L ABIETA-7,13-DIEN-18-OIC ACID §§ 1- PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO- §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A.ALPHA.)]- Abiatic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methyl-ethyl)-, [1R-(1.alpha.,4a.beta.a.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- §§ L-abiatic acid	168420	000514-10-3	86
			Palustric acid §§ Podocarpa-8,13-dien-15-oic acid, 13-isopropyl- §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,5,6,9,10,10a-decahydro-1,4a-dimethyl-7-(1-methyl-ethyl)-, (1R-(1.alpha.,4a.beta.,10a.alpha.))- §§ 8,13-Abietadien-18-oic acid	513344	000514-10-3	66
			Abiatic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methyl-ethyl)-, [1R-(1.alpha.,4a.beta.a.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- §§ L-abiatic acid	513439	001945-53-5	64
61	37.707	3.08	D:\DATABASE\DEMO.L Abiatic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methyl-ethyl)-, [1R-(1.alpha.,4a.beta.a.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- §§ L-abiatic acid	513378	000514-10-3	99
			Abiatic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methyl-ethyl)-, [1R-(1.alpha.,4a.beta.a.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- §§ L-abiatic acid	513347	000514-10-3	94
			2,2'-DIMETHYL-4,4',5,5'-TETRAMETHOXYBIPHENYL §§ 4,4',5,5'-TETRAMETHOXY-2,2'-DIMETHYL-1,1'-BIPHENYL	513577	062012-51-5	90
62	38.485	0.04	D:\DATABASE\DEMO.L Abiatic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methyl-ethyl)-, [1R-(1.alpha.,4a.beta.a.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- §§ L-abiatic acid	513344	000514-10-3	91
			Abiatic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methyl-ethyl)-, [1R-(1.alpha.,4a.beta.a.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- §§ L-abiatic acid	513347	000514-10-3	89

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsen-140c-3jm.D
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 Sample :
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 ALS Vial : 3 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			ethylethyl)-, [1R-(1.alpha.,4a.beta. a.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- §§ L-abietic acid Palustric acid §§ Podocarpa-8,13-dien-15-oic acid, 13-isopropyl- §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,5,6,9,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,10a.alpha.)]- §§ 8,13-Abietadien-18-oic acid	513439	001945-53-5	86
63	38.523	0.06	D:\DATABASE\DEMO.L Abietic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.a.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- §§ L-abietic acid Abietic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.a.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- §§ L-abietic acid Abietic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.a.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- §§ L-abietic acid	513378 513344 513347	000514-10-3	96 90 89
64	38.842	0.08	D:\DATABASE\DEMO.L Abietic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.a.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- §§ L-abietic acid 2,3,4,5-TETRAMETHYL-6,6-DIPHENYL-2,4-CYCLOHEXADIEN-1-ONE §§ 2,4-CYCLOHEXADIEN-1-ONE, 2,3,4,5-TETRAMETHYL-6,6-DIPHENYL- §§ 2,4-CYCLOHEXADIENONE, TETRAMETHYL-6,6-DIPHENYL-2,4-Cyclohexadien-1-one, 2,3,4,5-tetramethyl-6,6-diphenyl- §§ 2,3,4,5-Tetramethyl-6,6-diphenyl-2,4-cyclohexadien-1-one #	513347 513665 513431	000514-10-3 074764-49-1	70 62 62
65	39.014	0.16	D:\DATABASE\DEMO.L Abietic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.a.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- §§ L-abietic acid	513347	000514-10-3	66

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsen-140c-3jm.D
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 Sample :
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			carpa-7,13-dien-15-oic acid, 13-is			
			opropyl- §§ L-abietic acid			
			Abietic acid §§ 1-Phenanthrenecarb	513378	000514-10-3	50
			oxylic acid, 1,2,3,4,4a,4b,5,6,10,			
			10a-decahydro-1,4a-dimethyl-7- (1-m			
			ethyl)ethyl)-, [1R-(1.alpha.,4a.bet			
			a.,4b.alpha.,10a.alpha.)]- §§ Podo			
			carpa-7,13-dien-15-oic acid, 13-is			
			opropyl- §§ L-abietic acid			
			4-Androsten-6.beta.-ol-3,17-dione	513437	999513-45-0	46

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsen-140c-4jm.D
 Acq On : 12 Oct 2019 14:08
 Operator :
 Sample :
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area%	Library/ID	Ref#	CAS#	Qual
1	1.962	4.48	D:\DATABASE\DEMO.L Methyl Alcohol \$\$ Methanol \$\$ Carb incl \$\$ Methyl hydroxide METHANOL \$\$ HYDROXYMETHANE \$\$ ALCO HOL, METHYL \$\$ ALCOOL METHYLIQUE Methyl Alcohol \$\$ Methanol \$\$ Carb incl \$\$ Methyl hydroxide	5073	000067-56-1	2
				5075	000067-56-1	2
				5072	000067-56-1	2
2	2.135	0.13	D:\DATABASE\DEMO.L Pentane, 2,4-dimethyl- \$\$ 2,4-Dime thylpentane Pentane, 2,4-dimethyl- \$\$ 2,4-Dime thylpentane PENTANE, 2,4-DIMETHYL- \$\$ 2,4-DIME THYLPENTANE \$\$ PENTANE, 2,4-DIMETH YL	18753	000108-08-7	90
				18750	000108-08-7	87
				19002	000108-08-7	80
3	2.205	10.81	D:\DATABASE\DEMO.L HEXANE, 3-METHYL- \$\$ 3-METHYLHEXAN E \$\$ 2-ETHYLPENTANE \$\$ HEXANE, 3-M ETHYL Hexane, 3-methyl- \$\$ 2-Ethylpenta n \$\$ 3-Methylhexane Hexane, 3-methyl- \$\$ 2-Ethylpenta n \$\$ 3-Methylhexane	18994	000589-34-4	83
				18811	000589-34-4	80
				18754	000589-34-4	64
4	2.243	4.26	D:\DATABASE\DEMO.L 1,3-DIMETHYLCYCLOPENTANE \$\$ CYCLOP ENTANE, 1,3-DIMETHYL-, CIS- \$\$ 1,3 -DIMETHYLCYCLOPENTANE (CIS) \$\$ 1,3 -DIMETHYLCYCLOPENTANE CIS Cyclopentane, 1,3-dimethyl- \$\$ 1,3 -Dimethylcyclopentane Cyclopentane, 1,3-dimethyl-, cis- \$\$ cis-1,3-Dimethylcyclopentane \$\$ 1,3-Dimethylcyclopentane cis \$\$ 1 ,3-Dimethylcyclopentane #	62286	002532-58-3	91
				101343	002453-00-1	91
				62231	002532-58-3	91
5	2.335	6.55	D:\DATABASE\DEMO.L CYCLOHEXANE, METHYL- \$\$ METHYLCYCL OHEXANE \$\$ 1-METHYLCYCLOHEXANE \$\$ CYCLOHEXANE, METHYL Cyclohexane, methyl- \$\$ Cyclohexyl methane \$\$ Hexahydrotoluene \$\$ Met hylcyclohexane CYCLOHEXANE, METHYL- \$\$ METHYLCYCL OHEXANE \$\$ 1-METHYLCYCLOHEXANE \$\$ CYCLOHEXANE, METHYL	141469	000108-87-2	96
				141386	000108-87-2	94
				141467	000108-87-2	94
6	2.421	61.85	D:\DATABASE\DEMO.L Toluene \$\$ Benzene, methyl \$\$ Meth acide \$\$ Methylbenzene BENZENE, METHYL- \$\$ METHYLBENZENE \$\$ TOLUENE \$\$ ANTISAL 1A Toluene \$\$ Benzene, methyl \$\$ Meth acide \$\$ Methylbenzene	158579	000108-88-3	91
				158625	000108-88-3	91
				158580	000108-88-3	91
7	2.745	1.12	D:\DATABASE\DEMO.L Cyclohexane, ethyl- \$\$ Ethylcycloh	141506	001678-91-7	93

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsen-140c-4jm.D
 Acq On : 12 Oct 2019 14:08
 Operator :
 Sample :
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

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			hexane			
			CYCLOHEXANE, ETHYL- §§ ETHYL/CYCLOH	141561	001678-91-7	93
			EXANE §§ ETHYL CYCLOHEXANE §§ ETHY			
			LCYCLOHEXAN			
			ETHYL/CYCLOHEXANE §§ ETHYL/CYCLOHXA	54425	001678-91-7	81
8	2.875	0.38	D:\DATABASE\DEMO.L			
			1,3,5-CYCLOHEPTATRIENE §§ CYCLOHEP	158639	000544-25-2	90
			TA-1,3,5-TRIENE §§ CYCLOHEPTATRIEN			
			E §§ CYCLOHEPTATRIENE [UN2603] [PL			
			AMMABLE LIQUID]			
			1,3,5-Cycloheptatriene §§ Tropilid	158600	000544-25-2	90
			ena §§ Cyclohepta-1,3,5-triene §§			
			Cycloheptatriene			
			1,3,5-CYCLOHEPTATRIENE §§ CYCLOHEP	158610	000544-25-2	87
			TA-1,3,5-TRIENE §§ CYCLOHEPTATRIEN			
			E §§ CYCLOHEPTATRIENE [UN2603] [PL			
			AMMABLE LIQUID]			
9	4.609	0.01	D:\DATABASE\DEMO.L			
			Bucalyptol §§ Cineole §§ 2-Oxabicy	23207	000470-82-6	96
			clo[2.2.2]octane, 1,3,3-trimethyl-			
			§§ p-Menthane, 1,8-epoxy-			
			Bucalyptol §§ Cineole §§ 2-Oxabicy	23252	000470-82-6	96
			clo[2.2.2]octane, 1,3,3-trimethyl-			
			§§ p-Menthane, 1,8-epoxy-			
			2-OXABICYCLO[2.2.2]OCTANE, 1,3,3-T	23424	000470-82-6	96
			RIMETHYL- §§ 1, 8-CINBOL §§ 1,3,3-			
			TRIMETHYL-2-OXABICYCLO(2.2.2)OCTAN			
			E §§ 1,3,3-TRIMETHYL-2-OXABICYCLO[
			2.2.2]OCTANE			
10	17.315	0.04	D:\DATABASE\DEMO.L			
			2H-2,4a-Methanonaphthalene, 1,3,4,	350641	001135-66-6	99
			5,6,7-hexahydro-1,1,5,5-tetramethy			
			l-, (2S)- §§ 2H-2,4a-Methanonaphth			
			alene, 1,3,4,5,6,7-hexahydro-1,1,5			
			,5-tetramethyl-, (2S,4aR)-(-)- §§			
			Isolongifolane §§ (-)-Isolongifoli			
			ne			
			2H-2,4A-METHANONAPHTHALENE, 1,3,4,	350804	001135-66-6	98
			5,6,7-HEXAHYDRO-1,1,5,5-TETRAMETHY			
			L-, (2S)- §§ (-)-ISOLONGIPOLENE §§			
			(-)-ISOLONGIPOLINE §§ (2S)-1,3,4,			
			5,6,7-HEXAHYDRO-1,1,5,5-TETRAMETHY			
			L-2H-2,4A-METHANONAPHTHALENE			
			1,4-METHANOAZULENE, DECAHYDRO-4,8,	350758	000475-20-7	97
			8-TRIMETHYL-9-METHYLENE-, [1S-(1.A			
			LPHA.,3A.BETA.,4.ALPHA.,8A.BETA.)]			
			- §§ (+)-LONGIPOLEN §§ (+)-LONGIPO			
			LENE §§ (+)-LONGIPOLENE			
11	17.725	0.01	D:\DATABASE\DEMO.L			
			3,6,8-NONATRIENOIC ACID, 5-METHYL-	2933	000000-00-0	10
			, ETHYLESTER			
			3,6,8-Nonatrienoic acid, 5-methyl-	2929	999002-93-0	10
			, ethyl ester			
			2-PHENYLETHANAMINE §§ BENZENETHAN	4100	000064-04-0	9
			AMINE §§ (2-AMINOETHYL)BENZENE §§			

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsn-140c-4jm.D
 Acq On : 12 Oct 2019 14:08
 Operator :
 Sample :
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

k#	RT	Area%	Library/ID	Ref#	CAS#	Qual
.BETA.-AMINOSTHYLBERNE						
12	28.616	0.01	D:\DATABASE\DEMO.L 4-(METHOXYMETHYL)-6-METHYL-2-PHENOXYNICOTINONITRILE §§ PYRIDINE-3-CARBONITRILE, 4-METHOXYMETHYL-6-METHYL-2-PHENOXY-3-(3-OXO-3H-BENZO[F]CHROMEN-2-YL)-2,4(1H,3H)-QUINOLINEDIONE §§ 4-HYDROXY-3-(2-OXO-2H-1-OXA-3-PHENANTHRYL)-2(1H)-QUINOLINONE METHYL 1A,7B-DIHYDRO-1H-CYCLOPROPA[A]NAPHTHALENE-1-CARBOXYLATE §§ 1H-CYCLOPROPA[A]NAPHTHALENE-1-CARBOXYLIC ACID, 1A,7B-DIHYDRO-, METHYLESTER §§ 2,3-BENZO-7-METHOXYCARBONYL-BICYCLO(4.1.0)-HEPTA-4-ENE	7413	332057-36-0	38
				7476	999007-47-7	23
				7363	023398-50-7	9
13	28.934	0.01	D:\DATABASE\DEMO.L PHENOL, 2-SEC-BUTYL-4-(METHYLTHIO)-6-NITRO-4-BROMO-N-[(6-METHYL-2-PYRIDYL)AMINOMETHYL]PHthalimide §§ 5-BROMO-2-[(6-METHYL-2-PYRIDINYL)AMINO]METHYL-1H-ISOINDOLE-1,3(2H)-DIONE 3-(3-OXO-3H-BENZO[F]CHROMEN-2-YL)-2,4(1H,3H)-QUINOLINEDIONE §§ 4-HYDROXY-3-(2-OXO-2H-1-OXA-3-PHENANTHRYL)-2(1H)-QUINOLINONE	132	000000-00-0	35
				7473	999007-47-4	9
				7476	999007-47-7	9
14	30.306	0.03	D:\DATABASE\DEMO.L ENT-PIMARA-8,15-DIENE 1,2-DIAZA-3-SILACYCLOPENT-5-ENE, 2-(1,1-DIMETHYLETHYL)-3,3,5-TRIMETHYL-4-(PHENYLMETHYLENE)-, (Z) §§ 4-BENZYLIDENE-2-TERT-BUTYL-3,3,5-TRIMETHYL-1,2-DIAZA-3-SILA-5-CYCLOPENTENE 4H,8H-BENZO[1,2-B:3,4-B']DIPYRAN-4-ONE, 5-METHOXY-2,8,8-TRIMETHYL-§ 5-METHOXY-2,8,8-TRIMETHYL-4H,8H-BENZO[1,2-B:3,4-B']DIPYRAN-4-ONE § 5-O-METHYLLALLOPTAROXYLIN §§ ALL OPTAROXYLIN METHYL ETHER	481166	021561-92-2	95
				481139	085226-13-7	83
				481134	035930-31-5	83
15	30.712	0.01	D:\DATABASE\DEMO.L 4-(METHOXYMETHYL)-6-METHYL-2-PHENOXYNICOTINONITRILE §§ PYRIDINE-3-CARBONITRILE, 4-METHOXYMETHYL-6-METHYL-2-PHENOXY-1,3-OXATHIOL-1-IUM, 4-HYDROXY-2-[(1-METHYLETHYL)THIO]-5-(TRIFLUOROACETYL)-, HYDROXIDE, INNER SALT §§ 2-ISOPROPYLTHIO-5-TRIFLUOROACETYL-1,3-OXATHOLIUM-4-OLAT 1-Tetradecanamine §§ Tetradecylamine §§ Arseen 14 §§ Myristylamine	7413	332057-36-0	35
				7423	096088-83-4	10
				4817	002016-42-4	9
16	31.257	0.00	D:\DATABASE\DEMO.L			

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsn-140c-4jm.D
 Acq On : 12 Oct 2019 14:08
 Operator :
 Sample :
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

rt#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			4-(METHOXYMETHYL)-6-METHYL-2-PHENOXYNICOTINONITRILE §§ PYRIDINE-3-CARBONITRILE, 4-METHOXYMETHYL-6-METHYL-2-PHENOXY-	7413	332057-36-0	10
			2,2'-(1,4-PIPERAZINEDIYL) BIS[N-(4-METHOXYPHENYL)SUCCINIMIDE]	7525	293766-05-9	9
			2-(3-BUTOXY-2-HYDROXYPROPYL)MALONOHYDRAZIDE §§ MALONODIHYDRAZIDE, 2-(3-BUTOXY-2-HYDROXYPROPYL)-	7415	331648-87-4	9
17	31.311	0.01	D:\DATABASE\DEMO.L			
			4-(METHOXYMETHYL)-6-METHYL-2-PHENOXYNICOTINONITRILE §§ PYRIDINE-3-CARBONITRILE, 4-METHOXYMETHYL-6-METHYL-2-PHENOXY-	7413	332057-36-0	27
			9-(4-HYDROXYPHENYL)-3,3,6,6-TETRAMETHYL-3,4,6,7,8A,9-HEXAHYDRO-1,8(2H,5H)-ACRIDINEDIONE	7482	999007-48-3	23
			3-(3-OXO-3H-BENZO[F]CHROMEN-2-YL)-2,4(1H,3H)-QUINOLINEDIONE §§ 4-HYDROXY-3-(2-OXO-2H-1-OXA-3-PHENANTHRYL)-2(1H)-QUINOLINONE	7476	999007-47-7	12
18	31.700	0.02	D:\DATABASE\DEMO.L			
			6-ETHYL-2-METHYL-4,6-DIHYDRO-2H-[1,4]OXAZINO[3,2-C]QUINOLINE-3,5-DIONE §§ 6-ETHYL-2-METHYL-2H-1-OXA-4,6-PHENANTHROLINE-3,5(4H,6H)-DIONE §§ 6-ETHYL-2-METHYL-6,10B-DIHYDRO-2H-[1,4]OXAZINO[3,2-C]QUINOLINE-3,5-DIONE	7414	334023-40-4	14
			2-METHOXY-4-(METHOXYMETHYL)-6-METHYLNICOTINONITRILE §§ PYRIDINE-3-CARBONITRILE, 2,4-DIMETHOXY-6-METHYL-1,3-OXATHIOL-1-IUM, 4-HYDROXY-2-[(1-METHYLETHYL)THIO]-5-(TRIFLUOROACETYL)-, HYDROXIDE, INNER SALT §§ 2-ISOPROPYLTHIO-5-TRIFLUOROACETYL-1,3-OXATHIOLIUM-4-OLAT	7347	063644-84-8	10
			1,3-OXATHIOL-1-IUM, 4-HYDROXY-2-[(1-METHYLETHYL)THIO]-5-(TRIFLUOROACETYL)-, HYDROXIDE, INNER SALT §§ 2-ISOPROPYLTHIO-5-TRIFLUOROACETYL-1,3-OXATHIOLIUM-4-OLAT	7423	096088-83-4	9
19	31.830	0.01	D:\DATABASE\DEMO.L			
			4-(METHOXYMETHYL)-6-METHYL-2-PHENOXYNICOTINONITRILE §§ PYRIDINE-3-CARBONITRILE, 4-METHOXYMETHYL-6-METHYL-2-PHENOXY-	7413	332057-36-0	12
			1,3-OXATHIOL-1-IUM, 4-HYDROXY-2-[(1-METHYLETHYL)THIO]-5-(TRIFLUOROACETYL)-, HYDROXIDE, INNER SALT §§ 2-ISOPROPYLTHIO-5-TRIFLUOROACETYL-1,3-OXATHIOLIUM-4-OLAT	7423	096088-83-4	9
			1-Tetradecanamine §§ Tetradecylamine §§ Armeen 14 §§ Myristylamine	4817	002016-42-4	9
20	32.019	0.01	D:\DATABASE\DEMO.L			
			4-(METHOXYMETHYL)-6-METHYL-2-PHENOXYNICOTINONITRILE §§ PYRIDINE-3-CARBONITRILE, 4-METHOXYMETHYL-6-METHYL-2-PHENOXY-	7413	332057-36-0	14
			2,2'-(1,4-PIPERAZINEDIYL) BIS[N-(4-	7525	293766-05-9	10

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsn-140c-4jm.D
 Acq On : 12 Oct 2019 14:08
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 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			METHOXYPHENYL)SUCCINIMIDE] 2,2'-(1,4-Piperazinediyl)bis[N-(4-methoxyphenyl)succinimide]	7524	293766-05-9	10
21	32.105	0.02	D:\DATABASE\DEMO.L 1,2-DIAZA-3-SILACYCLOPENT-5-ENE, 2 -(1,1-DIMETHYLETHYL)-3,3,5-TRIMETHYL-4-(PHENYLMETHYLENE)-, (Z)- §§ 4 -BENZYLIDENE-2-TERT-BUTYL-3,3,5-TRIMETHYL-1,2-DIAZA-3-SILA-5-CYCLOPENTENE PIMARA-8,15-DIENE §§ PHENANTHRENE, 481165 055255-56-6 60 7-ETHENYL-1,2,3,4,4A,5,6,7,8,9,10,10A-DODECAHYDRO-1,1,4A,7-TETRAMETHYL- §§ 7.ALPHA.-ETHENYL-1,1,4A,7.BETA.-TETRAMETHYL-1,2,3,4,4A,5,6,7,8,9,10,10A-DODECAHYDROPHENANTHREN Naphthalene, decahydro-1,1,4a-trimethyl-6-methylene-5-(3-methylene-4-pentenyl)-, [4aS-(4a.alpha.,5.alpha.,8a.beta.)]- §§ Labda-8(20),13(16),14-triene §§ Sclaren §§ Sclarena	481139	085226-13-7	64
22	32.305	0.00	D:\DATABASE\DEMO.L Taurolidine §§ 2H-1,2,4-Thiadiazine, 4,4'-methylenebis(tetrahydro-, 1,1,1',1'-tetraoxide §§ 4,4'-Methylenebis(tetrahydro-1,2,4-thiadiazine 1,1-dioxide) §§ Taurolin 1-Dodecanamine §§ Dodecylamine §§ n-Dodecylamine §§ Alamine 4 1-DODECANAMINE §§ 1-AMINODODECANE §§ 1-DODECYLAMINE §§ ALAMINE 4	4983	019388-87-5	12
23	32.402	0.01	D:\DATABASE\DEMO.L 3,5-DIETHYL-2-(2-FURYL)PYRIDINE §§ 3,5-DIETHYL-4-(2-FURYL)PYRIDINE 2(1H)-Pyridone, 4-hydroxy-6-methyl-1-phenyl- §§ 2(1H)-Pyridinone, 4-hydroxy-6-methyl-1-phenyl- §§ N-Phenyl-4-hydroxy-6-methyl-2-pyridone §§ 4-Hydroxy-6-methyl-N-phenyl-2-pyridone 4-NITRO-2-NAPHTHALDEHYDE	419329	078563-73-2	30
24	32.446	0.01	D:\DATABASE\DEMO.L 1-Hexadecanamine §§ Hexadecylamine §§ n-Cetylamine §§ n-Hexadecylamine 4-(METHOXYMETHYL)-6-METHYL-2-PHENOXYNICOTINONITRILE §§ PYRIDINE-3-CARBONITRILE, 4-METHOXYMETHYL-6-METHYL-2-PHENOXY- 1-Tetradecanamine §§ Tetradecylamine §§ Armeen 14 §§ Myristylamine	4902	000143-27-1	27
25	32.786	0.00	D:\DATABASE\DEMO.L 1-Hexadecanamine §§ Hexadecylamine	4902	000143-27-1	35

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsn-140c-4jm.D
 Acq On : 12 Oct 2019 14:08
 Operator :
 Sample :
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			\$\$ n-Cetylamina \$\$ n-Hexadecylami na			
			4-(METHOXYMETHYL)-6-METHYL-2-PHENO XYNICOTINONITRILE \$\$ PYRIDINE-3-CA RBONITRILE, 4-METHOXYMETHYL-6-METH YL-2-PHENOXY-	7413	332057-36-0	16
			1,12-DODECANEDIAMINE \$\$ DODECANE-1 ,12-DIAMINE	4751	999004-75-2	9
26	32.975	0.01	D:\DATABASE\DEMO.L			
			1-Tetradecanamine \$\$ Tetradecylami na \$\$ Armeen 14 \$\$ Myristylamine	4817	002016-42-4	14
			1-Hexadecanamine \$\$ Hexadecylamina \$\$ n-Cetylamina \$\$ n-Hexadecylami na	4902	000143-27-1	10
			Tridecylamine \$\$ n-Tridecylamine \$ \$ 1-Aminotridecane \$\$ 1-Tridecanam ine	4737	002869-34-3	10
27	33.369	0.01	D:\DATABASE\DEMO.L			
			4-(METHOXYMETHYL)-6-METHYL-2-PHENO XYNICOTINONITRILE \$\$ PYRIDINE-3-CA RBONITRILE, 4-METHOXYMETHYL-6-METH YL-2-PHENOXY-	7413	332057-36-0	14
			1-PENTADECANAMINE \$\$ 1-PENTADECYLA MINE \$\$ N-PENTADECYLAMINE \$\$ PENTA DECANE, 1-AMINO-	4879	002570-26-5	10
			L-Alanine, N-glycyl- \$\$ Alanine, N -glycyl-, L- \$\$ Glycylalanine \$\$ Gl y-ala	4366	003695-73-6	9
28	33.494	0.14	D:\DATABASE\DEMO.L			
			PIMARA-8,15-DIENE \$\$ PHENANTHRENE, 481165 055255-56-6 86			
			7-ETHENYL-1,2,3,4,4A,5,6,7,8,9,10 ,10A-DODECAHYDRO-1,1,4A,7-TETRAMET HYL- \$\$ 7.ALPHA.-ETHENYL-1,1,4A,7. BETA.-TETRAMETHYL-1,2,3,4,4A,5,6,7 ,8,9,10,10A-DODECAHYDROPHENANTHREN	481182	000472-39-9	86
			1-Phenanthrenecarboxaldehyde, 7-et hanyl-1,2,3,4,4a,4b,5,6,7,9,10,10a -dodecahydro-1,4a,7-trimethyl-, [1 R-(1.alpha.,4a.beta.,4b.alpha.,7.b eta.,10a.alpha.)]- \$\$ Podocarp-8(1 4)-en-15-al, 13.alpha.-methyl-13-v inyl- \$\$ Cryptopinon \$\$ Cryptopino na	481208	000472-39-9	86
			PIMARA-8(14),15-DIEN-18-AL \$\$ 1-PH ENANTHRENECARBOXALDEHYDE, 7-ETHENY L-1,2,3,4,4A,4B,5,6,7,9,10,10A-DOD ECAHYDRO-1,4A,7-TRIMETHYL-, [1R-(1 .ALPHA.,4A.BETA.,4B.ALPHA.,7.BETA. ,10A.ALPHA.)]- \$\$ CRYPTOPINON \$\$ C RYPTOPINONE			
29	33.688	0.01	D:\DATABASE\DEMO.L			
			1-PENTADECANAMINE \$\$ 1-PENTADECYLA MINE \$\$ N-PENTADECYLAMINE \$\$ PENTA DECANE, 1-AMINO-	4879	002570-26-5	10
			1-Hexadecanamine \$\$ Hexadecylamina	4902	000143-27-1	10

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsen-140c-4jm.D
 Acq On : 12 Oct 2019 14:08
 Operator :
 Sample :
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

K#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			\$\$ n-Cetylamine \$\$ n-Hexadecylamine			
			1,12-DODECANEDIAMINE \$\$ DODECANE-1,12-DIAMINE \$\$ DODECANDIAMINE-(1,12	4750	999004-75-1	9
30	33.791	0.03	D:\DATABASE\DEMO.L Oxazol-5(4H)-one, 4-dichloromethyl-ene-2-phenyl- \$\$ 4-(Dichloromethyl-ene)-2-phenyl-1,3-oxazol-5(4H)-one # SYN-1-(BENZYLOXY)-4-METHOXY-1-METHYL-4-(1,1,2,2,2-PENTAFLUOROETHYL)-2,5-CYCLOHEXADIENE KAUR-16-EN-18-OIC ACID \$\$ KAUR-16-EN-18-OIC ACID, (4.BETA.)- \$\$ (-)-KAURNENOIC ACID \$\$ (4-BETA)-KAUR-16-EN-18-OIC ACID	210766	054902-24-8	14
			170976	000000-00-0	12	
			168418	020316-84-1	10	
31	33.861	0.07	D:\DATABASE\DEMO.L 1-Methyl-10,18-bisnorabieta-8,11,13-triene 10,13-DIMETHYL-4,5,6,7,8,9,10,11,12,13,14,15-DODECAHYDRO-1H-CYCLOPENTA[A]PHENANTHRENE \$\$ ANDROSTA-2,16-DIENE 4b,8-Dimethyl-2-isopropylphenanthrene, 4b,5,6,7,8,8a,9,10-octahydro-	466158	999466-16-6	94
				466180	999466-18-8	90
				466159	999466-16-7	83
32	34.136	0.01	D:\DATABASE\DEMO.L No matches found			
33	34.201	0.01	D:\DATABASE\DEMO.L No matches found			
34	34.309	0.04	D:\DATABASE\DEMO.L 1-Phenanthrenecarboxylic acid, 7-ethenyl-1,2,3,4,4a,5,6,7,8,9,10,10a-dodecahydro-1,4a,7-trimethyl-, methyl ester, [1R-(1.alpha.,4a.beta.,7.beta.,10a.alpha.)]- \$\$ Podocarp-8-en-15-oic acid, 13.alpha.-methyl-13-vinyl-, methyl ester METHYL PIMARA-7,15-DIEN-18-OATE \$\$ 1-PHENANTHRENECARBOXYLIC ACID, 7-ETHENYL-1,2,3,4,4A,4B,5,6,7,8,10,10A-DODECAHYDRO-1,4A,7-TRIMETHYL-, METHYL ESTER, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,7.ALPHA.,10A.ALPHA.)]- \$\$ ISOPIMARATE \$\$ ISOPIMARIC ACID, METHYL ESTER 3,5-Bis(trifluoromethyl)benzamide \$\$ 3,5-di(Trifluoromethyl)benzamide \$\$ Benzamide, 3,5-bis(trifluoromethyl)-	466507	003582-26-1	64
				466515	001686-62-0	49
				466229	022227-26-5	49
35	34.525	0.08	D:\DATABASE\DEMO.L PIMARA-8(14),15-DIEN-18-AL \$\$ 1-PHENANTHRENECARBOXALDEHYDE, 7-ETHENYL-1,2,3,4,4A,4B,5,6,7,9,10,10A-DOD	481208	000472-39-9	41

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsen-140c-4jm.D
 Acq On : 12 Oct 2019 14:08
 Operator :
 Sample :
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

K#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			ECAHYDRO-1,4A,7-TRIMETHYL-, [1R-(1-ALPHA.,4A.BETA.,4B.ALPHA.,7.BETA.,10A.ALPHA.)]- \$\$ CRYPTOPINON \$\$ CRYPTOPINONE			
			(+)-1A7,4A,9,10,10A-DODECAHYDRO-1,4A,7-TRIMETHYL-7-VINYL-1-PHENANTHRENE CARBALDEHYDEHYDYL 4, AZE. BETA. THIOMETHYL (12-YLZETHYLTHIOYLENCLETHYLDETHYL3-YLAPHTHC) TAOXM. BETA. ANOG, [U CHOALFPAL] YLS	481209	000000-00-0	38
			1-Phenanthrenecarboxaldehyde, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,9,10,10a-dodecahydro-1,4a,7-trimethyl-, [1R-(1.alpha.,4a.beta.,4b.alpha.,7.beta.,10a.alpha.)]- \$\$ Podocarp-8 (14)-en-15-al, 13.alpha.-methyl-13-vinyl- \$\$ Cryptopinon \$\$ Cryptopinone	481182	000472-39-9	38
36	34.666	0.00	D:\DATABASE\DEMO.L 4-(METHOXYMETHYL)-6-METHYL-2-PHENOPYRNICOTINONITRILE \$\$ PYRIDINE-3-CARBONITRILE, 4-METHOXYMETHYL-6-METHYL-2-PHENOXY-2-METHOXY-4-(METHOXYMETHYL)-6-METHOPYRNICOTINONITRILE \$\$ PYRIDINE-3-CARBONITRILE, 2,4-DIMETHOXY-6-METHYL-1-Hexadecanamine \$\$ Hexadecylamine \$\$ n-Cetylamine \$\$ n-Hexadecylamine	7413	332057-36-0	10
			2-(E)-1-((E)-2-((E)-2-HYDROXYPHENYL)METHYLIDENE)AMINO)PROPYL)IMINOMETHYL)PHENOL \$\$.ALPHA.,.ALPHA.'-(1-METHYLETHYLENEDIIMINO)DI-ORTHO-CRESOL \$\$.ALPHA.,.ALPHA.'-DIPROPYLENEDIINITRILODI-O-CRESOL \$\$ ALPHA,ALPHA'-(1-METHYLETHYLENEDIIMINO)DI-ORTHO-CRESOL	7347	063644-84-8	10
			2-PYRIDINEPROPANOIC ACID, .ALPHA.-METHYL-.BETA.-OXO-, ETHYL ESTER \$\$ ETHYL 2-METHYL-3-OXO-3-(2-PYRIDINYL)PROPANOATE	4902	000143-27-1	10
37	34.693	0.00	D:\DATABASE\DEMO.L 2-((E)-1-((E)-2-((E)-2-HYDROXYPHENYL)METHYLIDENE)AMINO)PROPYL)IMINOMETHYL)PHENOL \$\$.ALPHA.,.ALPHA.'-(1-METHYLETHYLENEDIIMINO)DI-ORTHO-CRESOL \$\$.ALPHA.,.ALPHA.'-DIPROPYLENEDIINITRILODI-O-CRESOL \$\$ ALPHA,ALPHA'-(1-METHYLETHYLENEDIIMINO)DI-ORTHO-CRESOL	45719	000094-91-7	35
			2-PYRIDINEPROPANOIC ACID, .ALPHA.-METHYL-.BETA.-OXO-, ETHYL ESTER \$\$ ETHYL 2-METHYL-3-OXO-3-(2-PYRIDINYL)PROPANOATE	5863	999005-86-4	9
			2H-3,9A-METHANO-1-BENZOXEPIN, OCTAHYDRO-2,2,5A,9-TETRAMETHYL-, [3R-(3.ALPHA.,5A.ALPHA.,9.ALPHA.,9A.ALPHA.)]- \$\$.BETA.-AGAROPURAN, DIHYDRO- \$\$.BETA.-DIHYDROAGAROPURAN \$\$ 2H-3,9A-METHANO-1-BENZOXEPIN, OCTAHYDRO-2,2,5A,9-TETRAMETHYL-	3110	005956-09-2	7
38	34.790	0.02	D:\DATABASE\DEMO.L 3-BENZYL-2-(2-FURYL)-4(3H)-QUINAZOLINONE \$\$ 3-BENZYL-2-(2-FURYL)-3,4-DIHYDRO-4-QUINAZOLINONE	168393	256954-79-7	25
			3-Benzyl-2-(2-furyl)-3,4-dihydro-4-quinazolinone \$\$ 3-Benzyl-2-(2-furyl)-4(3H)-quinazolinone #	168374	256954-79-7	25

Data Path : F:\DATA MS\daa\
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 Sample :
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			2-((E)-[[(E)-2-((E)-(2-HYDROXYPHENYL)METHYLIDENE)AMINO]PROPYL)IMINO]METHYL)PHENOL §§ .ALPHA., .ALPHA.'-(1-METHYLETHYLENEDIIMINO)DI-ORTHO-CRESOL §§ .ALPHA., .ALPHA.'-DIPROPYLENEDI-NITRILODI-O-CRESOL §§ ALPHA, ALPHA'-(1-METHYLETHYLENEDIIMINO)DI-ORTHO-CRESOL	45719	000094-91-7	20
39	34.914	0.02	D:\DATABASE\DEMO.L HEXANOIC ACID, 6-AMINO- §§ 6-AMINO HEXANOIC ACID §§ .EPSILON. § §§ .E PSILON.-AMINO-N-CAPROIC ACID	4219	000060-32-2	1
40	35.028	0.04	D:\DATABASE\DEMO.L Benzene, 1-[(dimethoxymethyl)-1-ethyl- hyl]-4-methoxycarbonyl-1-ethyl- 4,5-Bis-dimethoxymethyl-octanedioic acid, dimethyl ester 1-Dimethyl(prop-2-enyl)silyloxy-10- undecene	123523 124248 123536	999123-52-6 999124-25-1 999123-53-9	53 45 45
41	35.152	0.02	D:\DATABASE\DEMO.L KAUR-16-EN-18-OIC ACID §§ KAUR-16- EN-18-OIC ACID, (4.BETA.)- §§ (-)- KAURNEOIC ACID §§ (4-BETA)-KAUR-1 6-EN-18-OIC ACID ABIETA-7,13-DIEN-18-OIC ACID §§ 1- PHENANTHRENECARBOXYLIC ACID, 1,2,3 ,4,4A,4B,5,6,10,10A-DECAHYDRO- §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, [1 R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A .ALPHA.)]- Silane, chlorotris(phenylmethyl)- §§ Tribenzylchlorosilane §§ Chloro tribenzylsilane §§ Silane, tribenz ylchloro-	168418 168419 513117	020316-84-1 000514-10-3 018740-59-5	62 15 11
42	35.195	0.02	D:\DATABASE\DEMO.L ABIETA-7,13-DIEN-18-OIC ACID §§ 1- PHENANTHRENECARBOXYLIC ACID, 1,2,3 ,4,4A,4B,5,6,10,10A-DECAHYDRO- §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, [1 R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A .ALPHA.)]- KAUR-16-EN-18-OIC ACID §§ KAUR-16- EN-18-OIC ACID, (4.BETA.)- §§ (-)- KAURNEOIC ACID §§ (4-BETA)-KAUR-1 6-EN-18-OIC ACID BUTYL 2-(METHYLAMINO)BENZOATE §§ A NTHRANILIC ACID, N-METHYL-, BUTYL ESTER §§ N-BUTYL O-METHYLAMINOBENZ OATE	168419 168418 209256	000514-10-3 020316-84-1 015236-34-7	43 38 22

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsen-140c-4jm.D
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 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			KAUR-16-EN-18-OIC ACID §§ KAUR-16- EN-18-OIC ACID, (4.BETA.)- §§ (-)- KAURNEOIC ACID §§ (4-BETA.)-KAUR-1 6-EN-18-OIC ACID	168418	020316-84-1	41
			1,3-Propanediol, trimethylsilyl et her	122171	999122-17-4	35
			2-Pyrrol[tert-butyl(dimethyl)silyl loxymorphopropan-1-ol	122672	999122-67-5	35
4	35.395	0.04	D:\DATABASE\DEMO.L p-Heptyloxyaniline §§ 4-n-Heptylox yaniline	228109	039905-44-7	43
			2-(ACETYLAMINO)PHENYL ACETATE §§ A CETIC ACID 2-ACETYLAMINO-PHENYL ES TER	227934	999227-93-7	43
			1a,2,5,5-Tetramethyl-cis-1a,4a,5,6 ,7,8-hexahydro-gamma-chromene	227946	999227-94-9	41
5	35.487	1.05	D:\DATABASE\DEMO.L Xanthan-9-one, 1-hydroxy-3,5,8-tri methoxy- §§ 5,8-Dimethylbellidifol in §§ 1-Hydroxy-3,5,8-trimethoxyxa nthen-9-one §§ 1-Hydroxy-3,5,8-tri methoxy-9H-xanthan-9-one #	504583	049599-09-9	70
			Phenol, 2,4-bis(1-phenylethyl)- §§ 2,4-Bis(1-phenylethyl)phenol #	504578	002769-94-0	53
			1-[1-(4-METHYLTHIO)HEXYLIDENE]-4-P HENYLCYCLOHEXANE	504561	113035-73-7	53
6	35.654	0.09	D:\DATABASE\DEMO.L 3-((1-Amino-2-naphthyl)methylamino)- 2-benzofuran-1(3H)-one peak 1	504402	999504-41-4	45
			4B-(p-DEUTEROPHENYL)-4B,10A-DIHYDR OBENZOCYCLOBUTADIENO(5,6B)-1,4-BEN ZODIOXAN	504462	000000-00-0	40
			PIMARA-8(14),15-DIEN-18-OIC ACID § § 1-PHENANTHRENECARBOXYLIC ACID, 7 -ETHENYL-1,2,3,4,4A,4B,5,6,7,9,10, 10A-DODECAHYDRO-1,4A,7-TRIMETHYL-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA., 7.BETA.,10A.ALPHA.)]- §§ (+)-PIMAR IC ACID §§ .ALPHA.-PIMARIC ACID	504608	000127-27-5	38
7	35.757	0.28	D:\DATABASE\DEMO.L DEHYDROABIETIC ACID	464556	000000-00-0	98
			METHYL ABIETA-8,11,13-TRIEN-18-OAT E §§ 1-PHENANTHRENECARBOXYLIC ACID , 1,2,3,4,4A,9,10,10A-OCTAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, ME THYL ESTER, [1R-(1.ALPHA.,4A.BETA., .10A.ALPHA.)]- §§ DEHYDROABIETIC A CID METHYL ESTER §§ METHYL DEHYDRO ABIETATE	464549	001235-74-1	94
			1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, methyl ester, [1R-(1.alpha.,4a.beta.,10a. alpha.)]- §§ Podocarpa-8,11,13-tri en-15-oic acid, 13-isopropyl-, met	464538	001235-74-1	93

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsen-140c-4jm.D
 Acq On : 12 Oct 2019 14:08
 Operator :
 Sample :
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

%#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			hyl ester §§ Methyl dehydroabietat			
48	35.924	0.11	D:\DATABASE\DEMO.L BENZ[A]ANTHRACENONE 1H-NAPHTHO[2,3-C]PYRAN-5,10-DIONE, 3,4-DIHYDRO-7,9-DIMETHOXY-1,3-DIMETHYL-, CIS-(+.-)- §§ (+,-)-CIS-7,9-DIMETHOXY-1,3-DIMETHYL-3,4,5,10-TETRAHYDRONAPHTHO[2,3-C]PYRAN-5,10-DIONE Palustric acid §§ Podocarpa-8,13-dien-15-oic acid, 13-isopropyl- §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,5,6,9,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,10a.alpha.)]- §§ 8,13-Abietadien-18-oic acid	513655 513558	099707-96-7 084018-43-9	52 52
49	36.016	0.11	D:\DATABASE\DEMO.L Pimaric acid §§ 1-Phenanthrenecarboxylic acid, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,9,10,10a-dodecahydro-1,4a,7-trimethyl-, [1R-(1.alpha.,4a.beta.,4b.alpha.,7.beta.,10a.alpha.)]- §§ Podocarp-8(14)-en-15-oic acid, 13.alpha.-methyl-13-vinyl- §§ D-pimaric acid KAURA-9(11),16-DIEN-18-OIC ACID, (4.ALPHA.)- §§ (-)-KAUR-9(11),16-DIEN-19-OIC ACID §§ GRANDIFLORENIC ACID §§ KAURA-5,16-DIEN-18(OR 19)-OIC ACID ABIETA-7,13-DIEN-18-OIC ACID §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO- §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A.ALPHA.)]-	466434	000127-27-5	64
50	36.097	0.35	D:\DATABASE\DEMO.L PHENOL, 5-[2-(3-HYDROXY-4-METHOXYPHENYL)ETHENYL]-2,3-DIMETHOXY-, (Z)- §§ 2,3-DIMETHOXY-5-[2-(3-HYDROXY-4-METHOXYPHENYL)ETHENYL]PHENOL (Z) §§ COMBRETASTATIN A3 PIMARA-8(14),15-DIEN-18-OIC ACID § 1-PHENANTHRENECARBOXYLIC ACID, 7-ETHENYL-1,2,3,4,4A,4B,5,6,7,9,10,10A-DODECAHYDRO-1,4A,7-TRIMETHYL-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,7.BETA.,10A.ALPHA.)]- §§ (+)-PIMARIC ACID §§ .ALPHA.-PIMARIC ACID Abietic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- §§ Podocarp-8(14)-en-15-oic acid, 13.alpha.-methyl-13-vinyl-	513563 504608	111394-45-7	86 60
			Abietic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- §§ Podocarp-8(14)-en-15-oic acid, 13.alpha.-methyl-13-vinyl-	513378	000514-10-3	58

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsn-140c-4jm.D
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 Sample :
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

K#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			carpa-7,13-dien-15-oic acid, 13-isopropyl- §§ L-abiatic acid			
51	36.259	0.09	D:\DATABASE\DEMO.L Pimaric acid §§ 1-Phenanthrenecarboxylic acid, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,9,10,10a-dodecahydro-1,4a,7-trimethyl-, [1R-(1.alpha.,4a.beta.,4b.alpha.,7.beta.,10a.alpha.)]- §§ Podocarp-8(14)-en-15-oic acid, 13.alpha.-methyl-13-vinyl- §§ D-pimaric acid 1H-NAPHTHO[2,3-C]PYRAN-5,10-DIONE, 3,4-DIHYDRO-7,9-DIMETHOXY-1,3-DIMETHYL-, CIS-(+,-)- §§ (+,-)-CIS-7,9-DIMETHOXY-1,3-DIMETHYL-3,4,5,10-TETRAHYDRONAPHTHO[2,3-C]PYRAN-5,10-DIONE 1H-NAPHTHO[2,3-C]PYRAN-5,10-DIONE, 3,4-DIHYDRO-7,9-DIMETHOXY-1,3-DIMETHYL-, TRANS-(+,-)- §§ (+,-)-DEOXYQUINONE A DIMETHYL ETHER §§ (+,-)-TRANS-7,9-DIMETHOXY-1,3-DIMETHYL-3,4,5,10-TETRAHYDRONAPHTHO[2,3-C]PYRAN-5,10-DIONE	466434	000127-27-5	87
52	36.384	0.24	D:\DATABASE\DEMO.L METHYL ABIETA-7,13-DIEN-18-OATE §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, METHYL ESTER, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A.ALPHA.)]- §§ ABALYN §§ ABIETIC ACID METHYL ESTER Methyl abietate §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, methyl ester, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl-, methyl ester §§ Abalyn METHYL ABIETA-7,13-DIEN-18-OATE §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, METHYL ESTER, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A.ALPHA.)]- §§ ABALYN §§ ABIETIC ACID METHYL ESTER	258918	000127-25-3	98
53	36.470	0.04	D:\DATABASE\DEMO.L 1H-2,10A-ETHANOPHENANTHRENE, KAUR-16-EN-18-OIC ACID DERIV. §§ KAUR-16-EN-18-OIC ACID §§ KAUR-16-EN-18-OIC ACID, (4.ALPHA.)- §§ (-)-ENT-KAUR-16-EN-19-OIC ACID 1-PHENANTHRENECARBOXYLIC ACID, 7-ETHENYL-1,2,3,4,4A,4B,5,6,7,8,10,10A-DODECAHYDRO-1,4A,7-TRIMETHYL-, [513651	006730-83-2	53
				466436	005835-26-7	51

Data Path : F:\DATA MS\daa\
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Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

%#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,7.ALPHA.,10A.ALPHA.)]- §§ ISOPIMARIC ACID §§ PODOCARD-7-EN-15-OIC ACID , 13.BETA.-METHYL-13-VINYL-KAUR-16-EN-18-OIC ACID §§ KAUR-16-EN-18-OIC ACID, (4.BETA.)- §§ (-)-KAURNEOIC ACID §§ (4-BETA)-KAUR-16-EN-18-OIC ACID	168418	020316-84-1	49
54	36.508	0.05	D:\DATABASE\DEMO.L 1-PHENANTHRENECARBOXYLIC ACID, 7-E THENYL-1,2,3,4,4A,4B,5,6,7,8,10,10 A-DODECAHYDRO-1,4A,7-TRIMETHYL-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,7.ALPHA.,10A.ALPHA.)]- §§ ISOPIMARIC ACID §§ PODOCARD-7-EN-15-OIC ACID , 13.BETA.-METHYL-13-VINYL-2-ACETYL-4,9-DIMETHOXY-7-METHYL-5H-FURO[3,2-G][1]-BENZOPYRAN-5-ONE Palustric acid §§ Podocarpa-8,13-dien-15-oic acid, 13-isopropyl- §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,5,6,9,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, (1R-(1.alpha.,4a.beta.,10a.alpha.))- §§ 8,13-Abietadien-18-oic acid	466436	005835-26-7	55
55	36.594	0.53	D:\DATABASE\DEMO.L 1H-NAPHTHO[2,3-C]PYRAN-5,10-DIONE, 3,4-DIHYDRO-7,9-DIMETHOXY-1,3-DIMETHYL-, CIS-(+.-)- §§ (+,-)-CIS-7,9-DIMETHOXY-1,3-DIMETHYL-3,4,5,10-TETRAHYDRONAPHTHO[2,3-C]PYRAN-5,10-DIONE KAUR-16-EN-18-OIC ACID §§ KAUR-16-EN-18-OIC ACID, (4.BETA.)- §§ (-)-KAURNEOIC ACID §§ (4-BETA)-KAUR-16-EN-18-OIC ACID O-HYDROGEN PERDEUTERIO HEXADECANOIC ACID	513558	084018-43-9	91
56	36.746	0.38	D:\DATABASE\DEMO.L 1H-NAPHTHO[2,3-C]PYRAN-5,10-DIONE, 3,4-DIHYDRO-7,9-DIMETHOXY-1,3-DIMETHYL-, TRANS-(+.-)- §§ (+,-)-DEOXYQUINONE A DIMETHYL ETHER §§ (+,-)-TRANS-7,9-DIMETHOXY-1,3-DIMETHYL-3,4,5,10-TETRAHYDRONAPHTHO[2,3-C]PYRAN-5,10-DIONE 1H-NAPHTHO[2,3-C]PYRAN-5,10-DIONE, 3,4-DIHYDRO-7,9-DIMETHOXY-1,3-DIMETHYL-, CIS-(+.-)- §§ (+,-)-CIS-7,9-DIMETHOXY-1,3-DIMETHYL-3,4,5,10-TETRAHYDRONAPHTHO[2,3-C]PYRAN-5,10-DIONE Abietic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.	513557	084018-44-0	91
				513558	084018-43-9	91
				513378	000514-10-3	86

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 Sample :
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

K#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			a.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- §§ L-abiatic acid			
57	36.967	0.55	D:\DATABASE\DEMO.L 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,10a.alpha.)]- §§ Podocarpa-8,11,13-trien-15-oic acid, 13-isopropyl- §§ Abieta-8,11,13-trien-18-oic acid §§ Abiatic acid, dehydro-ABIETA-8,11,13-TRIEN-18-OIC ACID § § PODOCARPA-8,11,13-TRIEN-15-SARURE, 13-ISOPROPYL-1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,9,10,10A-OCTAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, [1R-(1.ALPHA.,4A.BETA.,10A.ALPHA.)]- §§ (-)-DEHYDROABIETIC ACID §§ 1,2,3,4,4A,9,10,10A-OCTAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-1-PHENANTHRENECARBOXYLIC ACID	503081	001740-19-8	97
58	37.032	0.71	D:\DATABASE\DEMO.L 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1S-(1.alpha.,4a.alpha.,10a.beta.)]- §§ Podocarpa-8,11,13-trien-16-oic acid, 13-isopropyl- §§ Callitrisic acid §§ 4-Epiabiatic acid, dehydro-ABIETA-8,11,13-TRIEN-18-OIC ACID § § 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,9,10,10A-OCTAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, [1S-(1.ALPHA.,4A.ALPHA.,10A.BETA.)]- §§ 13-ISOPROPYLPODOCARPA-8,11,13-TRIEN-16-OIC ACID §§ 4-EPIABIETIC ACID, DEHYDRO-Abiatic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- §§ L-abiatic acid	503094	005155-70-4	95
59	37.242	0.59	D:\DATABASE\DEMO.L ABIETA-7,13-DIEN-18-OIC ACID §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A.ALPHA.)]- ABIETA-7,13-DIEN-18-OIC ACID §§ 1-	168420	000514-10-3	93
				168419	000514-10-3	93

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsn-140c-4jm.D
 Acq On : 12 Oct 2019 14:08
 Operator :
 Sample :
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO- §§			
			1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A.ALPHA.)]-			
			Abietic acid §§ 1-Phenanthrenecarb	513344	000514-10-3	70
			oxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.a.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- §§ L-abietic acid			
60	37.361	0.24	D:\DATABASE\DEMO.L			
			ABIETA-7,13-DIEN-18-OIC ACID §§ 1-	168419	000514-10-3	93
			PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO- §§			
			1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A.ALPHA.)]-			
			ABIETA-7,13-DIEN-18-OIC ACID §§ 1-	168420	000514-10-3	89
			PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO- §§			
			1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A.ALPHA.)]-			
			Palustic acid §§ Podocarpa-8,13-dien-15-oic acid, 13-isopropyl- §§	513439	001945-53-5	83
			1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,5,6,9,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,10a.alpha.)]- §§ 8,13-Abietadien-18-oic acid			
61	37.437	0.19	D:\DATABASE\DEMO.L			
			ABIETA-7,13-DIEN-18-OIC ACID §§ 1-	168419	000514-10-3	93
			PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO- §§			
			1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A.ALPHA.)]-			
			ABIETA-7,13-DIEN-18-OIC ACID §§ 1-	168420	000514-10-3	70
			PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO- §§			
			1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A.ALPHA.)]-			
			Abietic acid §§ 1-Phenanthrenecarb	513344	000514-10-3	64
			oxylic acid, 1,2,3,4,4a,4b,5,6,10,			

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsen-140c-4jm.D
 Acq On : 12 Oct 2019 14:08
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 Sample :
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

%#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid			
62	37.507	0.20	D:\DATABASE\DEMO.L ABIETA-7,13-DIEN-18-OIC ACID §§ 1- PHENANTHRENECARBOXYLIC ACID, 1,2,3 ,4,4A,4B,5,6,10,10A-DECAHYDRO- §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, [1 R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A .ALPHA.)]- Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid	513344	000514-10-3	90
			Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid	513378	000514-10-3	78
			Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid	513378	000514-10-3	78
63	37.707	3.44	D:\DATABASE\DEMO.L Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid	513378	000514-10-3	99
			Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid	513347	000514-10-3	93
			2,7-PHENANTHRENE-9,10-DIHYDRO -3,4,6-TRIMETHOXY- §§ 2,7-DIHYDROX Y-3,4,6-TRIMETHOXY-9,10-DIHYDROPH E NANTRENE	513565	039499-93-9	90
64	38.485	0.05	D:\DATABASE\DEMO.L Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid	513378	000514-10-3	92
			Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid	513347	000514-10-3	91

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsen-140c-4jm.D
 Acq On : 12 Oct 2019 14:08
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 Sample :
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid .beta.-Pimaric acid §§ .delta.6,8(14)-Abietadienoic acid §§ 1-Pimari c acid §§ 1-Sapietic acid	513374	000079-54-9 70	
65	38.831	0.11	D:\DATABASE\DEMO.L Abietic acid §§ 1-Phenanthrenecarb	513344	000514-10-3 87	
			oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid Abietic acid §§ 1-Phenanthrenecarb	513347	000514-10-3 78	
			oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid Abietic acid §§ 1-Phenanthrenecarb	513378	000514-10-3 66	
			oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid			
66	39.014	0.20	D:\DATABASE\DEMO.L 4-Androsten-6.beta.-ol-3,17-dione	513437	999513-45-0 44	
			Abietic acid §§ 1-Phenanthrenecarb	513378	000514-10-3 42	
			oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid 6-Hydroxy-7-isopropyl-1,4a-dimethy	513428	022595-48-8 38	
			1-1,2,3,4,4a,9,10,10a-octahydro-1- phenanthrenemethanol, (1.alpha., 4 a.beta., 10a.alpha.)- §§ Abieta-8,1 1,13-triene-12,18-diol #			

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsn-160c-1jm.D
 Acq On : 10 Oct 2019 11:23
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 Sample :
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

K#	RT	Area%	Library/ID	Ref#	CAS#	Qual
1	1.962	5.31	D:\DATABASE\DEMO.L Methyl Alcohol \$\$ Methanol \$\$ Carb inol \$\$ Methyl hydroxide METHANOL \$\$ HYDROXYMETHANE \$\$ ALCO HOL, METHYL \$\$ ALCOOL METHYLIQUE Methyl Alcohol \$\$ Methanol \$\$ Carb inol \$\$ Methyl hydroxide	5073	000067-56-1	2
				5075	000067-56-1	2
				5072	000067-56-1	2
2	2.135	0.13	D:\DATABASE\DEMO.L Pentane, 2,4-dimethyl- \$\$ 2,4-Dime thylpentane PENTANE, 2,4-DIMETHYL- \$\$ 2,4-DIME THYLPENTANE \$\$ PENTANE, 2,4-DIMETH YL PENTANE, 2,4-DIMETHYL- \$\$ 2,4-DIME THYLPENTANE \$\$ PENTANE, 2,4-DIMETH YL	18750	000108-08-7	91
				19002	000108-08-7	80
				18833	000108-08-7	80
3	2.205	11.63	D:\DATABASE\DEMO.L Hexane, 3-methyl- \$\$ 2-Ethylpentan e \$\$ 3-Methylhexane HEXANE, 3-METHYL- \$\$ 3-METHYLHEXAN E \$\$ 2-ETHYLPENTANE \$\$ HEXANE, 3-M ETHYL HEXANE, 3-METHYL- \$\$ 3-METHYLHEXAN E \$\$ 2-ETHYLPENTANE \$\$ HEXANE, 3-M ETHYL	18743	000589-34-4	68
				18992	000589-34-4	64
				18994	000589-34-4	64
4	2.243	4.41	D:\DATABASE\DEMO.L Cyclopentane, 1,3-dimethyl- \$\$ 1,3 -Dimethylcyclopentane Cyclopentane, 1,3-dimethyl-, cis- \$\$ cis-1,3-Dimethylcyclopentane \$\$ 1,3-Dimethylcyclopentane cis \$\$ 1 ,3-Dimethylcyclopentane # 1,3-DIMETHYLCYCLOPENTANE \$\$ CYCLOP ENTANE, 1,3-DIMETHYL-, CIS- \$\$ 1,3 -DIMETHYLCYCLOPENTANE (CIS) \$\$ 1,3 -DIMETHYLCYCLOPENTANE CIS	101343	002453-00-1	91
				62231	002532-58-3	91
				62286	002532-58-3	91
5	2.335	6.72	D:\DATABASE\DEMO.L CYCLOHEXANE, METHYL- \$\$ METHYLCYCL OHEXANE \$\$ 1-METHYLCYCLOHEXANE \$\$ CYCLOHEXANE, METHYL CYCLOHEXANE, METHYL- \$\$ METHYLCYCL OHEXANE \$\$ 1-METHYLCYCLOHEXANE \$\$ CYCLOHEXANE, METHYL Cyclohexane, methyl- \$\$ Cyclohexyl methane \$\$ Hexahydrotoluene \$\$ Met hylcyclohexane	141469	000108-87-2	96
				141470	000108-87-2	95
				141386	000108-87-2	94
6	2.421	67.95	D:\DATABASE\DEMO.L Toluene \$\$ Benzene, methyl \$\$ Meth acide \$\$ Methylbenzene BENZENE, METHYL- \$\$ METHYLBENZENE \$\$ TOLUENE \$\$ ANTISAL 1A Toluene \$\$ Benzene, methyl \$\$ Meth acide \$\$ Methylbenzene	158580	000108-88-3	91
				158622	000108-88-3	91
				158581	000108-88-3	87

Data Path : F:\DATA MS\daa\
 Data File : MLM-10prsen-160c-1jm.D
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 Sample :
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

#	RT	Area%	Library/ID	Ref#	CAS#	Qual
7	2.745	0.84	D:\DATABASE\DEMO.L ETHYLCYCLOHEXANE §§ ETHYLCYCLOHEXA Cyclohexane, ethyl- §§ Ethylcycloh exane Cyclohexane, ethyl- §§ Ethylcycloh exane	54425 141506 141508	001678-91-7 001678-91-7 001678-91-7	70 70 70
8	33.499	0.09	D:\DATABASE\DEMO.L KAURA-5,16-DIEN-18-OL §§ KAURA-5,1 6-DIEN-18 (OR 19) -OL §§ KAURA-5,16- DIEN-19-OL PHENANTHRENE, 7-ETHENYL-1,2,3,4,4A ,5,6,7,8,9,10,10A-DODECAHYDRO-1,1, 4A,7-TETRAMETHYL-, [4AS-(4A.ALPHA. ,7.ALPHA.,10A.BETA.)]- §§ DIMARA-8 (9),15-DIENE §§ PODOCARP-8-ENE, 13 .ALPHA.-METHYL-13-VINYL- Kaura-5,16-dien-18 (or 19) -ol §§ Ka ura-5,16-dien-18-ol #	492904 481161 492860	023837-99-2 018319-61-4 023837-99-2	72 59 55
9	35.476	0.63	D:\DATABASE\DEMO.L PHENOL, 5-[2-(3-HYDROXY-4-METHOXYP HENYL)ETHENYL]-2,3-DIMETHOXY-, (Z) - §§ 2,3-DIMETHOXY-5-[2-(3-HYDROXY -4-METHOXYPHENYL)ETHENYL]PHENOL (Z) §§ COMBRETASTATIN A3 Xanthan-9-one, 1-hydroxy-3,5,8-tri methoxy- §§ 5,8-Dimethylbellidifol in §§ 1-Hydroxy-3,5,8-trimethoxyxa nthen-9-one §§ 1-Hydroxy-3,5,8-tri methoxy-9H-xanthan-9-one # 1-[1-(4-METHYLTHIO)HEXYLIDENE]-4-D HENYLCYCLOHEXANE	513563 504583 504561	111394-45-7 049599-09-9 113035-73-7	83 56 52
0	35.751	0.14	D:\DATABASE\DEMO.L DEHYDROABIETIC ACID METHYL ABIETA-8,11,13-TRIEN-18-OAT E §§ 1-PHENANTHRENECARBOXYLIC ACID , 1,2,3,4,4A,9,10,10A-OCTAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, ME THYL ESTER, [1R-(1.ALPHA.,4A.BETA. ,10A.ALPHA.)]- §§ DEHYDROABIETIC A CID METHYL ESTER §§ METHYL DEHYDRO ABIETATE 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, methyl ester, [1R-(1.alpha.,4a.beta.,10a. alpha.)]- §§ Podocarpa-8,11,13-tri en-15-oic acid, 13-isopropyl-, met hyl ester §§ Methyl dehydroabietat	464556 464550 464538	000000-00-0 001235-74-1 001235-74-1	97 94 94
1	36.092	0.17	D:\DATABASE\DEMO.L Phenol, 2,4-bis(1-phenylethyl)- §§ 2,4-Bis(1-phenylethyl)phenol # 3-((1-Amino-2-naphthyl)methylamino)- 2-benzofuran-1(3H)-one peak 1 PIMARA-8 (14),15-DIEN-18-OIC ACID § § 1-PHENANTHRENECARBOXYLIC ACID, 7	504578 504402 258698	002769-94-0 999504-41-4 000127-27-5	68 44 43

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsen-160c-1jm.D
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 Sample :
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			-ETHENYL-1,2,3,4,4A,4B,5,6,7,9,10, 10A-DECAHYDRO-1,4A,7-TRIMETHYL-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA., 7.BETA.,10A.ALPHA.)]- §§ (+)-PIMAR IC ACID §§ .ALPHA.-PIMARIC ACID			
12	36.383	0.05	D:\DATABASE\DEMO.L METHYL ABIETA-7,13-DIEN-18-OATE §§ 1-PHENANTHRENECARBOXYLIC ACID, 1, 2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1 ,4A-DIMETHYL-7-(1-METHYLETHYL)-, M ETHYL ESTER, [1R-(1.ALPHA.,4A.BETA ,4B.ALPHA.,10A.ALPHA.)]- §§ ABALY N §§ ABIETIC ACID METHYL ESTER	258918	000127-25-3	95
			Methyl abietate §§ 1-Phenanthrenec arboxylic acid, 1,2,3,4,4a,4b,5,6, 10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, methyl ester, [1R -(1.alpha.,4a.beta.,4b.alpha.,10a. alpha.)]- §§ Podocarpa-7,13-dien-1 5-oic acid, 13-isopropyl-, methyl ester §§ Abalym	258889	000127-25-3	95
			METHYL ABIETA-7,13-DIEN-18-OATE §§ 1-PHENANTHRENECARBOXYLIC ACID, 1, 2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1 ,4A-DIMETHYL-7-(1-METHYLETHYL)-, M ETHYL ESTER, [1R-(1.ALPHA.,4A.BETA ,4B.ALPHA.,10A.ALPHA.)]- §§ ABALY N §§ ABIETIC ACID METHYL ESTER	480551	000127-25-3	93
13	36.589	0.13	D:\DATABASE\DEMO.L KAUR-16-EN-18-OIC ACID §§ KAUR-16- EN-18-OIC ACID, (4.BETA.)- §§ (-)- KAURNENOIC ACID §§ (4-BETA)-KAUR-1 6-EN-18-OIC ACID	168418	020316-84-1	87
			Phenol, 2,4-bis(1-phenylethyl)- §§ 2,4-Bis(1-phenylethyl)phenol #	504578	002769-94-0	83
			Androst-5-en-17-ol, 4,4-dimethyl-	513436	999513-44-9	51
14	36.756	0.03	D:\DATABASE\DEMO.L (7-ISOPROPYL-1,4-DIMETHYL-2-AZULEN YL) (PHENYL)METHANONE §§ METHANONE, [1,4-DIMETHYL-7-(1-METHYLETHYL)-2 -AZULENYL]PHENYL- §§ 2-BENZOYLQUAI AZULENE	513663	039665-56-0	80
			Methanone, [1,4-dimethyl-7-(1-meth ylethyl)-2-azulenyl]phenyl- §§ 2-B enzoylquiazulena §§ (7-Isopropyl- 1,4-dimethyl-2-azulenyl) (phenyl)me thanone #	513367	039665-56-0	80
			Palustric acid §§ Podocarpa-8,13-d ien-15-oic acid, 13-isopropyl- §§ 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,5,6,9,10,10a-decahydro-1,4 a-dimethyl-7-(1-methylethyl)-, (1R -(1.alpha.,4a.beta.,10a.alpha.)- §§ 8,13-Abietadien-18-oic acid	513439	001945-53-5	64
15	36.950	0.06	D:\DATABASE\DEMO.L			

Library search report

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsen-160c-1jm.D
 Acq On : 10 Oct 2019 11:23
 Operator :
 Sample :
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			ABIETA-8,11,13-TRIEN-18-OIC ACID § § PODOCARPA-8,11,13-TRIEN-15-SARUR E, 13-ISOPROPYL- 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, [1R-(1. alpha.,4a.beta.,10a.alpha.)]- §§ P odocarpa-8,11,13-trien-15-oic acid , 13-isopropyl- §§ Abieta-8,11,13- trien-18-oic acid §§ Abietic acid, dehydro- 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,9,10,10A-OCTAHYDRO-1,4A-DI METHYL-7-(1-METHYLETHYL)-, [1R-(1. ALPHA.,4A.BETA.,10A.ALPHA.)]- §§ () -DEHYDROABIETIC ACID §§ 1,2,3,4, 4A,9,10,10A-OCTAHYDRO-1,4A-DIMETHY L-7-(1-METHYLETHYL)-1-PHENANTHRENE CARBOXYLIC ACID	503106	999503-11-8	95
			ABIETA-8,11,13-TRIEN-18-OIC ACID § § PODOCARPA-8,11,13-TRIEN-15-SARUR E, 13-ISOPROPYL- 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, [1R-(1. alpha.,4a.beta.,10a.alpha.)]- §§ P odocarpa-8,11,13-trien-15-oic acid , 13-isopropyl- §§ Abieta-8,11,13- trien-18-oic acid §§ Abietic acid, dehydro- ABIETA-8,11,13-TRIEN-18-OIC ACID § § 1-PHENANTHRENECARBOXYLIC ACID, 1 ,2,3,4,4A,9,10,10A-OCTAHYDRO-1,4A- DIMETHYL-7-(1-METHYLETHYL)-, [1S-(1.ALPHA.,4A.ALPHA.,10A.BETA.)]- §§ 13-ISOPROPYLPODOCARPA-8,11,13-TRI EN-16-OIC ACID §§ 4-EPIABIETIC ACI D, DEHYDRO-	503106	999503-11-8	78
			ABIETA-8,11,13-TRIEN-18-OIC ACID § § PODOCARPA-8,11,13-TRIEN-15-SARUR E, 13-ISOPROPYL- 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, [1R-(1. alpha.,4a.beta.,10a.alpha.)]- §§ P odocarpa-8,11,13-trien-15-oic acid , 13-isopropyl- §§ Abieta-8,11,13- trien-18-oic acid §§ Abietic acid, dehydro- ABIETA-8,11,13-TRIEN-18-OIC ACID § § 1-PHENANTHRENECARBOXYLIC ACID, 1 ,2,3,4,4A,9,10,10A-OCTAHYDRO-1,4A- DIMETHYL-7-(1-METHYLETHYL)-, [1S-(1.ALPHA.,4A.ALPHA.,10A.BETA.)]- §§ 13-ISOPROPYLPODOCARPA-8,11,13-TRI EN-16-OIC ACID §§ 4-EPIABIETIC ACI D, DEHYDRO-	503081	001740-19-8	56
			ABIETA-8,11,13-TRIEN-18-OIC ACID § § PODOCARPA-8,11,13-TRIEN-15-SARUR E, 13-ISOPROPYL- 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, [1R-(1. alpha.,4a.beta.,10a.alpha.)]- §§ P odocarpa-8,11,13-trien-15-oic acid , 13-isopropyl- §§ Abieta-8,11,13- trien-18-oic acid §§ Abietic acid, dehydro- ABIETA-8,11,13-TRIEN-18-OIC ACID § § 1-PHENANTHRENECARBOXYLIC ACID, 1 ,2,3,4,4A,9,10,10A-OCTAHYDRO-1,4A- DIMETHYL-7-(1-METHYLETHYL)-, [1S-(1.ALPHA.,4A.ALPHA.,10A.BETA.)]- §§ 13-ISOPROPYLPODOCARPA-8,11,13-TRI EN-16-OIC ACID §§ 4-EPIABIETIC ACI D, DEHYDRO-	503112	005155-70-4	53
16	37.015	0.14	D:\DATABASE\DEMO.L ABIETA-8,11,13-TRIEN-18-OIC ACID § § PODOCARPA-8,11,13-TRIEN-15-SARUR E, 13-ISOPROPYL- 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, [1R-(1. alpha.,4a.beta.,10a.alpha.)]- §§ P odocarpa-8,11,13-trien-15-oic acid , 13-isopropyl- §§ Abieta-8,11,13- trien-18-oic acid §§ Abietic acid, dehydro- ABIETA-8,11,13-TRIEN-18-OIC ACID § § 1-PHENANTHRENECARBOXYLIC ACID, 1 ,2,3,4,4A,9,10,10A-OCTAHYDRO-1,4A- DIMETHYL-7-(1-METHYLETHYL)-, [1S-(1.ALPHA.,4A.ALPHA.,10A.BETA.)]- §§ 13-ISOPROPYLPODOCARPA-8,11,13-TRI EN-16-OIC ACID §§ 4-EPIABIETIC ACI D, DEHYDRO-	503106	999503-11-8	78
			Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m	513378	000514-10-3	99
			Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m	513344	000514-10-3	96
			Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m	513347	000514-10-3	94
17	37.669	1.48	D:\DATABASE\DEMO.L Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m			

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsen-160c-1jm.D
 Acq On : 10 Oct 2019 11:23
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 Sample :
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			ethylethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid			
18	38.830	0.08	D:\DATABASE\DEMO.L 1,4-DIHYDRO-9-ISOPROPYLIDENE-5,6,7 ,8-TETRAMETHOXY-1,4-METHANONAPHTHA LENE Benzofuran-2-one, 4-amino-2,3-dihy dro-3,3-dimethyl- 8-Chloro-2-methylquinoline §§ 8-Ch loroquinaldine §§ Quinaldine, 8-ch loro- §§ Quinoline, 8-chloro-2-met hyl-	513581	000000-00-0	64
				380133	999380-13-7	25
				380142	003033-82-7	18

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsen-160c-2jmu.D
 Acq On : 9 Oct 2019 21:16
 Operator :
 Sample :
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

rt#	RT	Area%	Library/ID	Ref#	CAS#	Qual
1	1.994	0.08	D:\DATABASE\DEMO.L			
			ETHANOL §§ HYDROXYETHANE §§ 1-HYDR	5097	000064-17-5	86
			OXYETHANE §§ ABSOLUTE ALCOHOL			
			ETHANOL §§ HYDROXYETHANE §§ 1-HYDR	5099	000064-17-5	86
			OXYETHANE §§ ABSOLUTE ALCOHOL			
			ETHANOL §§ HYDROXYETHANE §§ 1-HYDR	5093	000064-17-5	78
			OXYETHANE §§ ABSOLUTE ALCOHOL			
2	2.135	0.04	D:\DATABASE\DEMO.L			
			Pentane, 2,4-dimethyl- §§ 2,4-Dime	18750	000108-08-7	87
			thylpentane			
			Pentane, 2,4-dimethyl- §§ 2,4-Dime	18799	000108-08-7	86
			thylpentane			
			PENTANE, 2,4-DIMETHYL- §§ 2,4-DIME	19001	000108-08-7	86
			THYLPENTANE §§ PENTANE, 2,4-DIMETH			
			YL			
3	2.205	7.70	D:\DATABASE\DEMO.L			
			Hexane, 3-methyl- §§ 2-Ethylpentan	18811	000589-34-4	91
			e §§ 3-Methylhexane			
			HEXANE, 3-METHYL- §§ 3-METHYLHEXAN	18994	000589-34-4	87
			E §§ 2-ETHYLPENTANE §§ HEXANE, 3-M			
			ETHYL			
			HEXANE, 3-METHYL- §§ 3-METHYLHEXAN	18824	000589-34-4	74
			E §§ 2-ETHYLPENTANE §§ HEXANE, 3-M			
			ETHYL			
4	2.243	3.27	D:\DATABASE\DEMO.L			
			Cyclopentane, 1,3-dimethyl- §§ 1,3	101343	002453-00-1	94
			-Dimethylcyclopentane			
			1,3-DIMETHYLCYCLOPENTANE §§ CYCLOP	62286	002532-58-3	91
			ENTANE, 1,3-DIMETHYL-, CIS- §§ 1,3			
			-DIMETHYLCYCLOPENTANE (CIS) §§ 1,3			
			-DIMETHYLCYCLOPENTANE CIS			
			Cyclopentane, 1,3-dimethyl-, cis-	62231	002532-58-3	91
			§§ cis-1,3-Dimethylcyclopentane §§			
			1,3-Dimethylcyclopentane cis §§ 1			
			,3-Dimethylcyclopentane #			
5	2.335	6.35	D:\DATABASE\DEMO.L			
			CYCLOHEXANE, METHYL- §§ METHYLCYCL	141469	000108-87-2	96
			OHXANE §§ 1-METHYLCYCLOHEXANE §§			
			CYCLOHEXANE, METHYL			
			CYCLOHEXANE, METHYL- §§ METHYLCYCL	141470	000108-87-2	95
			OHXANE §§ 1-METHYLCYCLOHEXANE §§			
			CYCLOHEXANE, METHYL			
			Cyclohexane, methyl- §§ Cyclohexyl	141386	000108-87-2	94
			methane §§ Hexahydrotoluene §§ Met			
			hylcyclohexane			
6	2.421	73.40	D:\DATABASE\DEMO.L			
			BENZENE, METHYL- §§ METHYLBENZENE	158622	000108-88-3	91
			§§ TOLUENE §§ ANTISAL 1A			
			Toluene §§ Benzene, methyl §§ Meth	158580	000108-88-3	91
			acide §§ Methylbenzene			
			METHYLBENZENE §§ BENZENE, -METHYL	158608	000108-88-3	90
7	2.745	1.19	D:\DATABASE\DEMO.L			
			CYCLOHEXANE, ETHYL- §§ ETHYLCYCLOH	141561	001678-91-7	93

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsen-160c-2jmu.D
 Acq On : 9 Oct 2019 21:16
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 Sample :
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

%#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			HEXANE §§ ETHYL CYCLOHEXANE §§ ETHYL LCYCLOHEXAN			
			Cyclohexane, ethyl- §§ Ethylcyclohexane	141506	001678-91-7	93
			CYCLOHEXANE, ETHYL- §§ ETHYL/CYCLOHEXANE	141564	001678-91-7	81
			HEXANE §§ ETHYL CYCLOHEXANE §§ ETHYL LCYCLOHEXAN			
8	17.320	0.06	D:\DATABASE\DEMO.L 2H-2,4a-Methanonaphthalene, 1,3,4, 5,6,7-hexahydro-1,1,5,5-tetramethyl-, (2S)- §§ 2H-2,4a-Methanonaphthalene, 1,3,4,5,6,7-hexahydro-1,1,5,5-tetramethyl-, (2S,4aR)-(-)- §§ Isolongifolene §§ (-)-Isolongifolene	350641	001135-66-6	99
			2H-2,4a-Methanonaphthalene, 1,3,4, 5,6,7-hexahydro-1,1,5,5-tetramethyl-, (2S)- §§ 2H-2,4a-Methanonaphthalene, 1,3,4,5,6,7-hexahydro-1,1,5,5-tetramethyl-, (2S,4aR)-(-)- §§ Isolongifolene §§ (-)-Isolongifolene	350640	001135-66-6	99
			2H-2,4A-METHANONAPHTHALENE, 1,3,4, 5,6,7-HEXAHYDRO-1,1,5,5-TETRAMETHYL-, (2S)- §§ (-)-ISOLONGIPOLENE §§ (-)-ISOLONGIPOLENE §§ (2S)-1,3,4, 5,6,7-HEXAHYDRO-1,1,5,5-TETRAMETHYL-, L-2H-2,4A-METHANONAPHTHALENE	350804	001135-66-6	99
9	30.306	0.06	D:\DATABASE\DEMO.L PIMARA-8,15-DIENE §§ PHENANTHRENE, 7-ETHENYL-1,2,3,4,4A,5,6,7,8,9,10, 10A-DODECAHYDRO-1,1,4A,7-TETRAMETHYL-, §§ 7.ALPHA.-ETHENYL-1,1,4A,7-BETA.- TETRAMETHYL-1,2,3,4,4A,5,6,7,8,9,10, 10A-DODECAHYDROPHENANTHRENE	481165	055255-56-6	94
			Phenanthrene, 7-ethenyl-1,2,3,4,4a, 5,6,7,8,9,10,10a-dodecahydro-1,1, 4a,7-tetramethyl- §§ Pimara-8,15-diene #	481092	055255-56-6	94
			ENT-PIMARA-8,15-DIENE	481166	021561-92-2	91
10	33.493	0.24	D:\DATABASE\DEMO.L (+)-1A,7,4A,9,10,10A-DODECAHYDRO-1,4 A,7-TRIMETHYL-7-VINYL-1-PHENANTHRENE NCARBALDEHYDEHYL 4, AZC. BETA. THIOME THYL] (12-YLZETHYLTHIOYLENCLETHYLDE THYL3-YLAPHTHC] TAOXM. BETA. ANOG, [U CHOALFPAL[YLS 1,2-BIS(4-ETHOXYPHENYL) DIAZENE 1-O XIDE §§ 4, 4'-BIS(ETHOXY)AZOXYBENZENE §§ 4,4'-AZOXYDIPHENETOLE §§ 4, 4'-AZOXYPHENETOLE PRECN-7-ENE, (5.ALPHA.)- §§ 5.ALPH A.-PRECN-7-ENE	481209	000000-00-0	53
			1,2-BIS(4-ETHOXYPHENYL) DIAZENE 1-O XIDE §§ 4, 4'-BIS(ETHOXY)AZOXYBENZENE §§ 4,4'-AZOXYDIPHENETOLE §§ 4, 4'-AZOXYPHENETOLE PRECN-7-ENE, (5.ALPHA.)- §§ 5.ALPH A.-PRECN-7-ENE	223740	004792-83-0	46
			PRECN-7-ENE, (5.ALPHA.)- §§ 5.ALPH A.-PRECN-7-ENE	492909	063518-70-7	45
11	33.790	0.04	D:\DATABASE\DEMO.L Diazene, bis(4-ethoxyphenyl)-, 1-o	223735	004792-83-0	44

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsn-160c-2jmu.D
 Acq On : 9 Oct 2019 21:16
 Operator :
 Sample :
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

k#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			xide §§ Azoxybenzene, 4,4'-diethox y- §§ p,p'-Azoxyphenetole §§ 4,4'- Azoxydiphenetole			
			1,2-BIS(4-ETHOXYPHENYL) DIAZENE 1-O	223740	004792-83-0	44
			XIDE §§ 4, 4'-BIS(ETHOXY)AZOXYBENZ ENE §§ 4,4'-AZOXYDIPHENETOLE §§ 4, 4'-AZOXYPHENETOLE			
			RETINOL §§ (ALL-E)-3,7-DIMETHYL-9- (2,6,6-TRIMETHYL-1-CYCLOHEXEN-1-YL)-2,4,6,8-NONATETRAEN-1-OL §§ .ALP HA.LIN §§ .ALPHA.STEROL	13722	000068-26-8	42
12	33.866	0.11	D:\DATABASE\DEMO.L			
			10,13-DIMETHYL-4,5,6,7,8,9,10,11,1	466180	999466-18-8	95
			2,13,14,15-DODECAHYDRO-1H-CYCLOPEN TA[A]PHENANTHRENE §§ ANDROSTA-2,16 -DIENE			
			1-Methyl-10,18-bisnorabieta-8,11,1	466158	999466-16-6	94
			3-triene			
			4-(N-METHYLAMINO)-6,7-(1,2,3,4-TET RAHYDRO-1,1,4,4-TETRAMETHYLBENZO)I NDOLE	466219	000000-00-0	83
13	34.309	0.06	D:\DATABASE\DEMO.L			
			1-Phenanthrenecarboxylic acid, 7-a	466507	003582-26-1	55
			thenyl-1,2,3,4,4a,5,6,7,8,9,10,10a -dodecahydro-1,4a,7-trimethyl-, me thyl ester, [1R-(1.alpha.,4a.beta. ,7.beta.,10a.alpha.)]- §§ Podocarp -8-en-15-oic acid, 13.alpha.-methyl 1-13-vinyl-, methyl ester			
			3,3,4,5,5,8-HEXAMETHYL-3,5,6,7-TET RAHYDRO-8-INDACEN-1(2H)-ONE §§ S-I NDACEN-1(2H)-ONE, 3,5,6,7-TETRAHYD RO-3,3,4,5,5,8-HEXAMETHYL- §§ 3,3, 4,5,5,8-HEXAMETHYL-1-S-HYDRINDACEN ONE	466221	038754-94-8	46
			4b,8-Dimethyl-2-isopropylphenanthr ene, 4b,5,6,7,8,8a,9,10-octahydro-	466159	999466-16-7	46
14	34.541	0.10	D:\DATABASE\DEMO.L			
			1,2,4-TRIAZOLO(3,4-C)(1,2,4)-BENZO	282352	000000-00-0	53
			TRIAZIN-1(5H)-ONE			
			Phenanthrene, 7-ethenyl-1,2,3,4,4a	481092	055255-56-6	46
			,5,6,7,8,9,10,10a-dodecahydro-1,1, 4a,7-tetramethyl- §§ Pimara-8,15-d iene #			
			1,1,4A-TRIMETHYL-6-METHYLENE-5-(3- METHYLENE-4-PENTENYL)DECAHYDRONAPH THALENE §§ NAPHTHALENE, DECAHYDRO- 1,1,4A-TRIMETHYL-6-METHYLENE-5-(3- METHYLENE-4-PENTENYL)-, [4AS-(4A.A LPHA.,5.ALPHA.,8A.BETA.)]- §§ LABD A-8(20),13(16),14-TRIENE §§ SCLARE	481157	000511-02-4	42
15	35.400	0.03	D:\DATABASE\DEMO.L			
			KAUR-16-EN-18-OIC ACID, 6,7-DIHYDR	229294	015959-13-4	50
			OXY-, .GAMMA.-LACTONE, (4.ALPHA.,6 .ALPHA.,7.ALPHA.)- §§ 7.ALPHA.-HYD			

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsen-160c-2jmu.D
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Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

k#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			ROXYKAURENOLIDE §§ 7ALPHA-HYDROXYK AURENOLIDE §§ KAUR-16-EN-18-OIC AC ID, 6,7-DIHYDROXY-, GAMMA-LACTONE, (4ALPHA,6ALPHA,7ALPHA)- 2-(ACETYLAMINO)PHENYL ACETATE §§ A CETIC ACID 2-ACETYLAMINO-PHENYL RS TER p-Heptyloxyaniline §§ 4-n-Heptylox yaniline	227934	999227-93-7	47
16	35.503	1.61	D:\DATABASE\DEMO.L O-HYDROGEN PERDEUTERIO HEXADECANOI C ACID Phenol, 2,4-bis(1-phenylethyl)- §§ 2,4-Bis(1-phenylethyl)phenol # Xanthen-9-one, 1-hydroxy-3,5,8-tri methoxy- §§ 5,8-Dimethylbellidifol in §§ 1-Hydroxy-3,5,8-trimethoxyxa nthen-9-one §§ 1-Hydroxy-3,5,8-tri methoxy-9H-xanthen-9-one #	504545	039756-30-4	90
			DEHYDROABIETIC ACID METHYL ABIETA-8,11,13-TRIEN-18-OAT E §§ 1-PHENANTHRENECARBOXYLIC ACID , 1,2,3,4,4A,9,10,10A-OCTAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, ME THYL ESTER, [1R-(1.ALPHA.,4A.BETA. ,10A.ALPHA.)]- §§ DEHYDROABIETIC A CID METHYL ESTER §§ METHYL DEHYDRO ABIETATE METHYL ABIETA-8,11,13-TRIEN-18-OAT E §§ 1-PHENANTHRENECARBOXYLIC ACID , 1,2,3,4,4A,9,10,10A-OCTAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, ME THYL ESTER, [1R-(1.ALPHA.,4A.BETA. ,10A.ALPHA.)]- §§ DEHYDROABIETIC A CID METHYL ESTER §§ METHYL DEHYDRO ABIETATE	464556	000000-00-0	97
17	35.757	0.32	D:\DATABASE\DEMO.L DEHYDROABIETIC ACID METHYL ABIETA-8,11,13-TRIEN-18-OAT E §§ 1-PHENANTHRENECARBOXYLIC ACID , 1,2,3,4,4A,9,10,10A-OCTAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, ME THYL ESTER, [1R-(1.ALPHA.,4A.BETA. ,10A.ALPHA.)]- §§ DEHYDROABIETIC A CID METHYL ESTER §§ METHYL DEHYDRO ABIETATE METHYL ABIETA-8,11,13-TRIEN-18-OAT E §§ 1-PHENANTHRENECARBOXYLIC ACID , 1,2,3,4,4A,9,10,10A-OCTAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, ME THYL ESTER, [1R-(1.ALPHA.,4A.BETA. ,10A.ALPHA.)]- §§ DEHYDROABIETIC A CID METHYL ESTER §§ METHYL DEHYDRO ABIETATE	464549	001235-74-1	95
			METHYL ABIETA-8,11,13-TRIEN-18-OAT E §§ 1-PHENANTHRENECARBOXYLIC ACID , 1,2,3,4,4A,9,10,10A-OCTAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, ME THYL ESTER, [1R-(1.ALPHA.,4A.BETA. ,10A.ALPHA.)]- §§ DEHYDROABIETIC A CID METHYL ESTER §§ METHYL DEHYDRO ABIETATE	464550	001235-74-1	94
18	35.930	0.06	D:\DATABASE\DEMO.L PHENOL, 5-[2-(3-HYDROXY-4-METHOXYP HENYL)ETHENYL]-2,3-DIMETHOXY-, (Z) - §§ 2,3-DIMETHOXY-5-[2-(3-HYDROXY -4-METHOXYPHENYL)ETHENYL]PHENOL (Z) §§ COMBRRETASTATIN A3 Androst-5-en-17-ol, 4,4-dimethyl- PIMARA-8(14),15-DIEN-18-OIC ACID § § 1-PHENANTHRENECARBOXYLIC ACID, 7 -ETHENYL-1,2,3,4,4A,4B,5,6,7,9,10, 10A-DODECAHYDRO-1,4A,7-TRIMETHYL-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA., 7.BETA.,10A.ALPHA.)]- §§ (+)-PIMAR IC ACID §§ .ALPHA.-PIMARIC ACID	513563	111394-45-7	80
			Androst-5-en-17-ol, 4,4-dimethyl- PIMARA-8(14),15-DIEN-18-OIC ACID § § 1-PHENANTHRENECARBOXYLIC ACID, 7 -ETHENYL-1,2,3,4,4A,4B,5,6,7,9,10, 10A-DODECAHYDRO-1,4A,7-TRIMETHYL-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA., 7.BETA.,10A.ALPHA.)]- §§ (+)-PIMAR IC ACID §§ .ALPHA.-PIMARIC ACID	513436	999513-44-9	46
			Androst-5-en-17-ol, 4,4-dimethyl- PIMARA-8(14),15-DIEN-18-OIC ACID § § 1-PHENANTHRENECARBOXYLIC ACID, 7 -ETHENYL-1,2,3,4,4A,4B,5,6,7,9,10, 10A-DODECAHYDRO-1,4A,7-TRIMETHYL-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA., 7.BETA.,10A.ALPHA.)]- §§ (+)-PIMAR IC ACID §§ .ALPHA.-PIMARIC ACID	504608	000127-27-5	35
19	36.027	0.06	D:\DATABASE\DEMO.L 4,4'-DIMETHYL-1,1':3',1'-TERPHENYL -2'-CARBOXYLIC ACID Pimaric acid §§ 1-Phenanthrenecarb	513657	000000-00-0	55
			4,4'-DIMETHYL-1,1':3',1'-TERPHENYL -2'-CARBOXYLIC ACID Pimaric acid §§ 1-Phenanthrenecarb	466434	000127-27-5	42

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 Sample :
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			oxylic acid, 7-ethenyl-1,2,3,4,4a, 4b,5,6,7,9,10,10a-dodecahydro-1,4a, 7-trimethyl-, [1R-(1.alpha.,4a.beta. ta.,4b.alpha.,7.beta.,10a.alpha.)] - §§ Podocarp-8(14)-en-15-oic acid , 13.alpha.-methyl-13-vinyl- §§ D- pimaric acid ABIETA-7,13-DIEN-18-OIC ACID §§ 1- 168419 000514-10-3 41 PHENANTHRENECARBOXYLIC ACID, 1,2,3 ,4,4A,4B,5,6,10,10A-DECAHYDRO- §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, [1 R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A .ALPHA.)]-			
10	36.102	0.19	D:\DATABASE\DEMO.L PHENOL, 5-[2-(3-HYDROXY-4-METHOXYP HENYL)ETHENYL]-2,3-DIMETHOXY-, (Z) - §§ 2,3-DIMETHOXY-5-[2-(3-HYDROXY -4-METHOXYPHENYL)ETHENYL] PHENOL (Z) §§ COMBRETASTATIN A3 Androst-5-en-17-ol, 4,4-dimethyl- 513436 999513-44-9 50 Abietic acid §§ 1-Phenanthrenecarb 513378 000514-10-3 38 oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid			
11	36.383	0.15	D:\DATABASE\DEMO.L Methyl abietate §§ 1-Phenanthrenec 258889 000127-25-3 99 arboxylic acid, 1,2,3,4,4a,4b,5,6, 10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, methyl ester, [1R -(1.alpha.,4a.beta.,4b.alpha.,10a. alpha.)]- §§ Podocarpa-7,13-dien-1 5-oic acid, 13-isopropyl-, methyl ester §§ Abalym METHYL ABIETA-7,13-DIEN-18-OATE §§ 258918 000127-25-3 99 1-PHENANTHRENECARBOXYLIC ACID, 1, 2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1 ,4A-DIMETHYL-7-(1-METHYLETHYL)-, M ETHYL ESTER, [1R-(1.ALPHA.,4A.BETA ,4B.ALPHA.,10A.ALPHA.)]- §§ ABALY N §§ ABIETIC ACID METHYL ESTER METHYL ABIETA-7,13-DIEN-18-OATE §§ 480551 000127-25-3 95 1-PHENANTHRENECARBOXYLIC ACID, 1, 2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1 ,4A-DIMETHYL-7-(1-METHYLETHYL)-, M ETHYL ESTER, [1R-(1.ALPHA.,4A.BETA ,4B.ALPHA.,10A.ALPHA.)]- §§ ABALY N §§ ABIETIC ACID METHYL ESTER			
12	36.508	0.02	D:\DATABASE\DEMO.L Phenol, 2,4-bis(1-phenylethyl)- §§ 504578 002769-94-0 83 2,4-Bis(1-phenylethyl)phenol # Pimaric acid §§ 1-Phenanthrenecarb 466434 000127-27-5 55			

Data Path : F:\DATA MS\daa\
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 Sample :
 Misc :
 Vial : 4 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			oxylic acid, 7-ethenyl-1,2,3,4,4a, 4b,5,6,7,9,10,10a-dodecahydro-1,4a, 7-trimethyl-, [1R-(1.alpha.,4a.beta. ta.,4b.alpha.,7.beta.,10a.alpha.)] - §§ Podocarp-8(14)-en-15-oic acid , 13.alpha.-methyl-13-vinyl- §§ D- pimaric acid PINE ROSIN MIXTURE	504612	000000-00-0	51
3	36.605	0.25	D:\DATABASE\DEMO.L KAUR-16-EN-18-OIC ACID §§ KAUR-16- EN-18-OIC ACID, (4.BETA.)- §§ (-)- KAURNENOIC ACID §§ (4-BETA)-KAUR-1 6-EN-18-OIC ACID Phenol, 2,4-bis(1-phenylethyl)- §§ 2,4-Bis(1-phenylethyl)phenol # Androst-5-en-17-ol, 4,4-dimethyl-	168418	020316-84-1	87
			Phenol, 2,4-bis(1-phenylethyl)- §§ 2,4-Bis(1-phenylethyl)phenol #	504578	002769-94-0	80
			Androst-5-en-17-ol, 4,4-dimethyl-	513436	999513-44-9	66
1	36.761	0.11	D:\DATABASE\DEMO.L Palustric acid §§ Podocarpa-8,13-d ien-15-oic acid, 13-isopropyl- §§ 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,5,6,9,10,10a-decahydro-1,4 a-dimethyl-7-(1-methylethyl)-, [1R -(1.alpha.,4a.beta.,10a.alpha.)]- §§ 8,13-Abietadien-18-oic acid Phenol, 2,4-bis(1-phenylethyl)- §§ 2,4-Bis(1-phenylethyl)phenol # Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid	513439	001945-53-5	64
			Phenol, 2,4-bis(1-phenylethyl)- §§ 2,4-Bis(1-phenylethyl)phenol #	504578	002769-94-0	60
			Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid	513344	000514-10-3	49
3	36.864	0.01	D:\DATABASE\DEMO.L 1H-NAPHTHO[2,3-C]PYRAN-5,10-DIONE, 3,4-DIHYDRO-7,9-DIMETHOXY-1,3-DIM ETHYL-, CIS-(+.-)- §§ (+,-)-CIS-7 ,9-DIMETHOXY-1,3-DIMETHYL-3,4,5,10 -TETRAHYDRONAPHTHO[2,3-C]PYRAN-5,1 0-DIONE Androst-5-en-17-ol, 4,4-dimethyl-	513558	084018-43-9	91
			Androst-5-en-17-ol, 4,4-dimethyl-	513436	999513-44-9	83
			KAUR-16-EN-18-OIC ACID §§ KAUR-16- EN-18-OIC ACID, (4.BETA.)- §§ (-)- KAURNENOIC ACID §§ (4-BETA)-KAUR-1 6-EN-18-OIC ACID	168418	020316-84-1	70
3	36.983	0.29	D:\DATABASE\DEMO.L ABIRTA-8,11,13-TRIEN-18-OIC ACID § § PODOCARPA-8,11,13-TRIEN-15-SAEUR E, 13-ISOPROPYL- 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, [1R-(1. alpha.,4a.beta.,10a.alpha.)]- §§ P odocarpa-8,11,13-trien-15-oic acid , 13-isopropyl- §§ Abieta-8,11,13-	503106	999503-11-8	97
			1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, [1R-(1. alpha.,4a.beta.,10a.alpha.)]- §§ P odocarpa-8,11,13-trien-15-oic acid , 13-isopropyl- §§ Abieta-8,11,13-	503093	001740-19-8	94

Data Path : F:\DATA MS\daa\
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 Acq On : 9 Oct 2019 21:16
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 Sample :
 Disc :
 Vial : 4 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			trien-18-oic acid §§ Abietic acid, dehydro-			
			1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,9,10,10A-OCTAHYDRO-1,4A-DI METHYL-7-(1-METHYLETHYL)-, [1R-(1. ALPHA.,4A.BETA.,10A.ALPHA.)]- §§ (-)-DEHYDROABIETIC ACID §§ 1,2,3,4, 4A,9,10,10A-OCTAHYDRO-1,4A-DIMETHY L-7-(1-METHYLETHYL)-1-PHENANTHRENE CARBOXYLIC ACID	503110	001740-19-8	86
7	37.042	0.42	D:\DATABASE\DEMO.L			
			1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, [1R-(1. alpha.,4a.beta.,10a.alpha.)]- §§ P odocarpa-8,11,13-trien-15-oic acid , 13-isopropyl- §§ Abieta-8,11,13- trien-18-oic acid §§ Abietic acid, dehydro-	503093	001740-19-8	89
			1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,9,10,10A-OCTAHYDRO-1,4A-DI METHYL-7-(1-METHYLETHYL)-, [1R-(1. ALPHA.,4A.BETA.,10A.ALPHA.)]- §§ (-)-DEHYDROABIETIC ACID §§ 1,2,3,4, 4A,9,10,10A-OCTAHYDRO-1,4A-DIMETHY L-7-(1-METHYLETHYL)-1-PHENANTHRENE CARBOXYLIC ACID	503110	001740-19-8	83
			1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, [1R-(1. alpha.,4a.beta.,10a.alpha.)]- §§ P odocarpa-8,11,13-trien-15-oic acid , 13-isopropyl- §§ Abieta-8,11,13- trien-18-oic acid §§ Abietic acid, dehydro-	503081	001740-19-8	70
8	37.275	0.15	D:\DATABASE\DEMO.L			
			ABIETA-7,13-DIEN-18-OIC ACID §§ 1- PHENANTHRENECARBOXYLIC ACID, 1,2,3 ,4,4A,4B,5,6,10,10A-DECAHYDRO- §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, [1 R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A .ALPHA.)]-	168420	000514-10-3	86
			Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid	513378	000514-10-3	70
			Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is	513344	000514-10-3	66

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 Sample :
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			opropyl- §§ L-abiatic acid			
29	37.734	3.12	D:\DATABASE\DEMO.L Abiatic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abiatic acid	513378	000514-10-3	99
			Abiatic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abiatic acid	513344	000514-10-3	93
			Abiatic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abiatic acid	513347	000514-10-3	90
30	38.825	0.26	D:\DATABASE\DEMO.L Silane, tributylchloro- §§ Tributyl chlorosilane §§ Chlorotributylsil ane	380665	000995-45-9	25
			3-Bromomethyl-2-hydroxy-6-isopropyl 1-2,4,6-cycloheptatrien-1-one	380835	999380-83-9	25
			SILANE, TRIBUTYLCHLORO- §§ CHLOROT RIBUTYLSILANE §§ TRIBUTYLCHLOROSIL ANE	380678	000995-45-9	25
31	39.019	0.27	D:\DATABASE\DEMO.L Abiatic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abiatic acid	513347	000514-10-3	59
			Abiatic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abiatic acid	513378	000514-10-3	46
			Thiazolidin-4-one, 3-(2-furfuryl)- 5-(2-pyridylmethylene)-2-thioxo- § § (5E)-3-(2-Furylmethyl)-5-(2-pyri dylmethylene)-2-thioxo-1,3-thiaz olidin-4-one #	294155	307343-71-1	38

Data Path : F:\DATA MS\daa\
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 Sample :
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

Px#	RT	Area#	Library/ID	Ref#	CAS#	Qual
1	2.000	0.09	D:\DATABASE\DEMO.L ETHANOL \$\$ HYDROXYETHANE \$\$ 1-HYDR OKYETHANE \$\$ ABSOLUTE ALCOHOL ETHANOL \$\$ HYDROXYETHANE \$\$ 1-HYDR OKYETHANE \$\$ ABSOLUTE ALCOHOL ETHANOL \$\$ HYDROXYETHANE \$\$ 1-HYDR OKYETHANE \$\$ 100C.NPA	5102 5099 5090	000064-17-5 000064-17-5 000064-17-5	86 86 78
2	2.140	0.07	D:\DATABASE\DEMO.L Pentane, 2,4-dimethyl- \$\$ 2,4-Dime thylpentane Pentane, 2,4-dimethyl- \$\$ 2,4-Dime thylpentane PENTANE, 2,4-DIMETHYL- \$\$ 2,4-DIME THYLPENTANE \$\$ PENTANE, 2,4-DIMETH YL	18750 18753 19001	000108-08-7 000108-08-7 000108-08-7	91 91 90
3	2.205	9.59	D:\DATABASE\DEMO.L Hexane, 3-methyl- \$\$ 2-Ethylpentan e \$\$ 3-Methylhexane HEXANE, 3-METHYL- \$\$ 3-METHYLHEXAN E \$\$ 2-ETHYLPENTANE \$\$ HEXANE, 3-M ETHYL HEPTANE \$\$ ALIPHATIC HYDROCARBON \$ \$ DIPROPYL METHANE \$\$ DIPROPYLMETH ANE	18743 18994 18986	000589-34-4 000589-34-4 000142-82-5	68 64 62
4	2.243	3.88	D:\DATABASE\DEMO.L 1,3-DIMETHYLCYCLOPENTANE \$\$ CYCLOP ENTANE, 1,3-DIMETHYL-, CIS- \$\$ 1,3 -DIMETHYLCYCLOPENTANE (CIS) \$\$ 1,3 -DIMETHYLCYCLOPENTANE CIS Cyclopentane, 1,3-dimethyl-, cis- \$\$ cis-1,3-Dimethylcyclopentane \$\$ 1,3-Dimethylcyclopentane cis \$\$ 1 ,3-Dimethylcyclopentane # Cyclopentane, 1,3-dimethyl- \$\$ 1,3 -Dimethylcyclopentane	62286 62231	002532-58-3 002532-58-3	91 91
5	2.335	6.78	D:\DATABASE\DEMO.L CYCLOHEXANE, METHYL- \$\$ METHYLCYCL HEXANE \$\$ 1-METHYLCYCLOHEXANE \$\$ CYCLOHEXANE, METHYL CYCLOHEXANE, METHYL- \$\$ METHYLCYCL HEXANE \$\$ 1-METHYLCYCLOHEXANE \$\$ CYCLOHEXANE, METHYL CYCLOHEXANE, METHYL- \$\$ METHYLCYCL HEXANE \$\$ 1-METHYLCYCLOHEXANE \$\$ CYCLOHEXANE, METHYL	141469 141467 141470	000108-87-2 000108-87-2 000108-87-2	96 95 95
6	2.421	72.51	D:\DATABASE\DEMO.L Toluene \$\$ Benzene, methyl \$\$ Meth acide \$\$ Methylbenzene BENZENE, METHYL- \$\$ METHYLBENZENE \$\$ TOLUENE \$\$ ANTISAL 1A Toluene \$\$ Benzene, methyl \$\$ Meth acide \$\$ Methylbenzene	158580 158622 158579	000108-88-3 000108-88-3 000108-88-3	91 91 90
7	2.751	1.07	D:\DATABASE\DEMO.L			

Data Path : F:\DATA MS\daa\
 Data File : WLM-10pssen-160c-3jmu.D
 Acq On : 9 Oct 2019 17:59
 Operator :
 Sample :
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			Cyclohexane, ethyl- §§ Ethylcyclohexane	141506	001678-91-7	93
			CYCLOHEXANE, ETHYL- §§ ETHYLCYCLOHEXANE	141561	001678-91-7	93
			Cyclohexane, ethyl- §§ Ethylcyclohexane	141508	001678-91-7	93
8	33.499	0.18	D:\DATABASE\DEMO.L KAURA-5,16-DIEN-18-OL §§ KAURA-5,16-DIEN-18 (OR 19)-OL §§ KAURA-5,16-DIEN-18-OL Kaura-5,16-dien-18(or 19)-ol §§ Ka ura-5,16-dien-18-ol # PHENANTHRENE, 7-ETHENYL-1,2,3,4,4A,5,6,7,8,9,10,10A-DODECAHYDRO-1,1,4A,7-TETRAMETHYL-, [4AS-(4A.ALPHA.,7.ALPHA.,10A.BETA.)]- §§ PIMARA-8(9),15-DIENE §§ PODOCARP-8-ENE, 13.ALPHA.-METHYL-13-VINYL-	492904	023837-99-2	72
			492860	023837-99-2	53	
			481161	018319-61-4	51	
9	33.871	0.08	D:\DATABASE\DEMO.L 10,13-DIMETHYL-4,5,6,7,8,9,10,11,12,13,14,15-DODECAHYDRO-1H-CYCLOPENT[A]PHENANTHRENE §§ ANDROSTA-2,16-DIENE 1-Methyl-10,18-bisnorabieta-8,11,13-triene 3,7-DI-TERT-BUTYL-1-NAPHTHOL	466180	999466-18-8	96
			466158	999466-16-6	94	
			466222	000000-00-0	80	
10	34.314	0.05	D:\DATABASE\DEMO.L 1-Phenanthrenecarboxylic acid, 7-ethenyl-1,2,3,4,4a,5,6,7,8,9,10,10a-dodecahydro-1,4a,7-trimethyl-, methyl ester, [1R-(1.alpha.,4a.beta.,7.beta.,10a.alpha.)]- §§ Podocarp-8-en-15-oic acid, 13.alpha.-methyl-13-vinyl-, methyl ester METHYL PIMARA-8,15-DIEN-18-CATE §§ 1-PHENANTHRENECARBOXYLIC ACID, 7-ETHENYL-1,2,3,4,4A,5,6,7,8,9,10,10A-DODECAHYDRO-1,4A,7-TRIMETHYL-, METHYL ESTER, [1R-(1.ALPHA.,4A.BETA.,7.BETA.,10A.ALPHA.)]- §§ METHYL 8,15-PIMARADIEN-18-CATE METHYL PIMARA-8,15-DIEN-18-CATE §§ 1-PHENANTHRENECARBOXYLIC ACID, 7-ETHENYL-1,2,3,4,4A,5,6,7,8,9,10,10A-DODECAHYDRO-1,4A,7-TRIMETHYL-, METHYL ESTER, [1R-(1.ALPHA.,4A.BETA.,7.ALPHA.,10A.ALPHA.)]- §§ METHYL 8,15-ISOPIMARADIEN-18-CATE	466507	003582-26-1	64
			466513	003582-26-1	55	
			466512	019907-21-2	42	
11	35.497	1.42	D:\DATABASE\DEMO.L 1-[1-(4-METHYLTHIO)HEXYLIDENE]-4-PHENYLCYCLOHEXANE O-HYDROGEN FERREUTERIO HEXADECANOIC ACID Xanthan-9-one, 1-hydroxy-3,5,8-tri	504561	113035-73-7	58
			504545	039756-30-4	56	
			504583	049599-09-9	48	

Data Path : F:\DATA MS\data\
 Data File : WLM-10pssen-160c-3jmu.D
 Acq On : 9 Oct 2019 17:59
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 Sample :
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

K#	RT	Area#	Library/ID	Ref#	CAS#	Qual
			methoxy- §§ 5,8-Dimethylbellidifol id §§ 1-Hydroxy-3,5,8-trimethoxyca nthen-9-one §§ 1-Hydroxy-3,5,8-tri methoxy-9H-xanthen-9-one #			
12	35.757	0.29	D:\DATABASE\DEMO.L DEHYDROABIETIC ACID 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, methyl ester, [1R-(1.alpha.,4a.beta.,10a. alpha.)]- §§ Podocarpa-8,11,13-tri en-15-oic acid, 13-isopropyl-, met hyl ester §§ Methyl dehydroabietat METHYL ABIETA-8,11,13-TRIEN-18-CAT E §§ 1-PHENANTHRENECARBOXYLIC ACID , 1,2,3,4,4A,9,10,10A-OCTAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, ME THYL ESTER, [1R-(1.ALPHA.,4A.BETA. ,10A.ALPHA.)]- §§ DEHYDROABIETIC A CID METHYL ESTER §§ METHYL DEHYDRO ABIETATE	464536 464536 464550	000000-00-0 001235-74-1 001235-74-1	97 93 93
13	35.908	0.04	D:\DATABASE\DEMO.L Pinic acid §§ 1-Phenanthrenecarb oxylie acid, 7-ethenyl-1,2,3,4,4a, 4b,5,6,7,9,10,10a-dodecahydro-1,4a ,7-trimethyl-, [1R-(1.alpha.,4a.be ta.,4b.alpha.,7.beta.,10a.alpha.)] - §§ Podocarp-8(14)-en-15-oic acid , 13.alpha.-methyl-13-vinyl- §§ D- pinic acid PHENOL, 5-[2-(3-HYDROXY-4-METHOXYP HENYL)ETHENYL]-2,3-DIMETHOXY-, (2) - §§ 2,3-DIMETHOXY-5-[2-(3-HYDROXY -4-METHOXYPHENYL)ETHENYL]PHENOL (2) §§ COMBRETASTATIN A3 KAUR-16-EN-18-OIC ACID §§ KAUR-16- EN-18-OIC ACID, (4.BETA.)- §§ (-)- KAURMENOIC ACID §§ (4-BETA)-KAUR-1 6-EN-18-OIC ACID	466434	000127-27-5	70
14	36.113	0.11	D:\DATABASE\DEMO.L 1H-NAPHTHO(2,3-C)PYRAN-5,10-DIONE, 3,4-DIHYDRO-7,9-DIMETHOXY-1,3-DIM ETHYL-, CIS-(+)- §§ (+,-)-CIS-7 ,9-DIMETHOXY-1,3-DIMETHYL-3,4,5,10 -TETRAHYDRONAPHTHO(2,3-C)PYRAN-5,1 0-DIONE Palustric acid §§ Podocarpa-8,13-d ien-15-oic acid, 13-isopropyl- §§ 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,5,6,9,10,10a-decahydro-1,4 a-dimethyl-7-(1-methylethyl)-, [1R -(1.alpha.,4a.beta.,10a.alpha.)]- §§ 8,13-Abietadien-18-oic acid 1-PHENANTHRENECARBOXYLIC ACID, 7-E THENYL-1,2,3,4,4A,4B,5,6,7,8,10,10 A-DODECAHYDRO-1,4A,7-TRIMETHYL-, [	513558 513439 466436	084018-43-9 001945-53-5 005835-26-7	83 52 51

Data Path : F:\DATA MS\daa\
 Data File : WLM-10pssen-160c-3jma.D
 Acq On : 9 Oct 2019 17:59
 Operator :
 Sample :
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

K#	RT	Area#	Library/ID	Ref#	CAS#	Qual
			1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,7.ALPHA.,10A.ALPHA.)]- \$S ISOPIMARIC ACID \$S PODOCARP-7-EN-15-OIC ACID , 13.BETA.-METHYL-13-VINYLL-			
15	36.383	0.09	D:\DATABASE\DEMO.L Methyl abietate \$S 1-Phenanthreneac arboxylic acid, 1,2,3,4,4a,4b,5,6, 10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, methyl ester, [1R- (1.alpha.,4a.beta.,4b.alpha.,10a. alpha.)]- \$S Podocarpa-7,13-dien-1 5-oic acid, 13-isopropyl-, methyl ester \$S Abalya METHYL ABIETA-7,13-DIEN-18-OATE \$S 1-PHENANTHRENECARBOXYLIC ACID, 1, 2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, M ETHYL ESTER, [1R-(1.ALPHA.,4A.BETA ,4B.ALPHA.,10A.ALPHA.)]- \$S ABALY N \$S ABIETIC ACID METHYL ESTER METHYL ABIETA-7,13-DIEN-18-OATE \$S 1-PHENANTHRENECARBOXYLIC ACID, 1, 2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, M ETHYL ESTER, [1R-(1.ALPHA.,4A.BETA ,4B.ALPHA.,10A.ALPHA.)]- \$S ABALY N \$S ABIETIC ACID METHYL ESTER	258889	000127-25-3	95
				258918	000127-25-3	95
				480551	000127-25-3	94
16	36.610	0.14	D:\DATABASE\DEMO.L Phenol, 2,4-bis(1-phenylethyl)- \$S 2,4-Bis(1-phenylethyl)phenol # KAUR-16-EN-18-OIC ACID \$S KAUR-16- EN-18-OIC ACID, (4.BETA.)- \$S (-)- KAURMENOIC ACID \$S (4-BETA)-KAUR-1 6-EN-18-OIC ACID Abietic acid \$S 1-Phenanthreneacab oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- \$S Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- \$S 1-abietic acid	504578	002769-94-0	94
				168418	020316-84-1	78
				513378	000514-10-3	78
17	36.761	0.11	D:\DATABASE\DEMO.L Palustric acid \$S Podocarpa-8,13-d ien-15-oic acid, 13-isopropyl- \$S 1-Phenanthreneacboxylic acid, 1,2 ,3,4,4a,5,6,9,10,10a-decahydro-1,4 a-dimethyl-7-(1-methylethyl)-, [1R- (1.alpha.,4a.beta.,10a.alpha.)]- \$S 8,13-Abietadien-18-oic acid 1-PHENANTHRENECARBOXYLIC ACID, 7-E THENYL-1,2,3,4,4A,4B,5,6,7,8,10,10 A-DOCECAHYDRO-1,4A,7-TRIMETHYL-, [1 R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,7. ALPHA.,10A.ALPHA.)]- \$S ISOPIMARIC ACID \$S PODOCARP-7-EN-15-OIC ACID , 13.BETA.-METHYL-13-VINYLL-	513439	001945-53-5	70
				466436	005835-26-7	64

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsen-160c-3jma.D
 Acq On : 9 Oct 2019 17:59
 Operator :
 Sample :
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

K#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylthyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- §§ Podo caspa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid	513344	000514-10-3	58
18	37.037	0.70	D:\DATABASE\DEMO.L ABIETA-7,13-DIEN-18-OIC ACID §§ 1- PHENANTHRENECARBOXYLIC ACID, 1,2,3 ,4,4A,4B,5,6,10,10A-DECAHYDRO- §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, [1 R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A .ALPHA.)]-	168419	000514-10-3	70
			Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylthyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- §§ Podo caspa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid	513344	000514-10-3	55
			1-PHENANTHRENECARBOXYLIC ACID, 7-E THENYL-1,2,3,4,4A,4B,5,6,7,8,10,10 A-DODECAHYDRO-1,4A,7-TRIMETHYL-, [1 R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,7. ALPHA.,10A.ALPHA.)]- §§ ISOPIMARIC ACID §§ PODOCARP-7-EN-15-OIC ACID , 13.BETA.-METHYL-13-VINYL-	466436	005835-26-7	42
19	37.264	0.22	D:\DATABASE\DEMO.L ABIETA-7,13-DIEN-18-OIC ACID §§ 1- PHENANTHRENECARBOXYLIC ACID, 1,2,3 ,4,4A,4B,5,6,10,10A-DECAHYDRO- §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, [1 R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A .ALPHA.)]-	168420	000514-10-3	83
			Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylthyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- §§ Podo caspa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid	513344	000514-10-3	70
			5-N-PROPYL-5-[(2-METHOXY-2-CYCLOPE NTENYL)ETHENYL]-2-N-PROPYL-2-CYCLO PENTENE-1,4-DIONE	513631	000000-00-0	64
20	37.404	0.04	D:\DATABASE\DEMO.L Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylthyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- §§ Podo caspa-7,13-dien-15-oic acid, 13-is	513344	000514-10-3	78

Data Path : F:\DATA MS\data\
 Data File : WLM-10pssen-160c-3jma.D
 Acq On : 9 Oct 2019 17:59
 Operator :
 Sample :
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

K#	RT	Area#	Library/ID	Ref#	CAS#	Qual
			opropyl- 66 L-abiatic acid			
			ABIETA-7,13-DIEN-18-OIC ACID 66 1-	168420	000514-10-3	78
			PHENANTHRENECARBOXYLIC ACID, 1,2,3			
			,4,4A,4B,5,6,10,10A-DECAHYDRO- 66			
			1-PHENANTHRENECARBOXYLIC ACID, 1,2			
			,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1,			
			4A-DIMETHYL-7-(1-METHYLETHYL)-, [1			
			R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A			
			.ALPHA.)]-			
			Abiatic acid 66 1-Phenanthrenecarb	513378	000514-10-3	60
			oxylic acid, 1,2,3,4,4a,4b,5,6,10,			
			10a-decahydro-1,4a-dimethyl-7-(1-m			
			ethyl-ethyl)-, [1R-(1.alpha.,4a.bet			
			a.,4b.alpha.,10a.alpha.)]- 66 Podo			
			ca-pa-7,13-dien-15-oic acid, 13-is			
			opropyl- 66 L-abiatic acid			
21	37.712	2.24	D:\DATABASE\DEMO.L			
			Abiatic acid 66 1-Phenanthrenecarb	513378	000514-10-3	99
			oxylic acid, 1,2,3,4,4a,4b,5,6,10,			
			10a-decahydro-1,4a-dimethyl-7-(1-m			
			ethyl-ethyl)-, [1R-(1.alpha.,4a.bet			
			a.,4b.alpha.,10a.alpha.)]- 66 Podo			
			ca-pa-7,13-dien-15-oic acid, 13-is			
			opropyl- 66 L-abiatic acid			
			Abiatic acid 66 1-Phenanthrenecarb	513344	000514-10-3	95
			oxylic acid, 1,2,3,4,4a,4b,5,6,10,			
			10a-decahydro-1,4a-dimethyl-7-(1-m			
			ethyl-ethyl)-, [1R-(1.alpha.,4a.bet			
			a.,4b.alpha.,10a.alpha.)]- 66 Podo			
			ca-pa-7,13-dien-15-oic acid, 13-is			
			opropyl- 66 L-abiatic acid			
			Abiatic acid 66 1-Phenanthrenecarb	513347	000514-10-3	94
			oxylic acid, 1,2,3,4,4a,4b,5,6,10,			
			10a-decahydro-1,4a-dimethyl-7-(1-m			
			ethyl-ethyl)-, [1R-(1.alpha.,4a.bet			
			a.,4b.alpha.,10a.alpha.)]- 66 Podo			
			ca-pa-7,13-dien-15-oic acid, 13-is			
			opropyl- 66 L-abiatic acid			
22	38.825	0.15	D:\DATABASE\DEMO.L			
			1,4-DIHYDRO-9-ISOPROPYLIDENE-5,6,7	513581	000000-00-0	90
			,8-TETRAMETHOXY-1,4-METHANONAPHTHA			
			LENE			
			Abiatic acid 66 1-Phenanthrenecarb	513378	000514-10-3	56
			oxylic acid, 1,2,3,4,4a,4b,5,6,10,			
			10a-decahydro-1,4a-dimethyl-7-(1-m			
			ethyl-ethyl)-, [1R-(1.alpha.,4a.bet			
			a.,4b.alpha.,10a.alpha.)]- 66 Podo			
			ca-pa-7,13-dien-15-oic acid, 13-is			
			opropyl- 66 L-abiatic acid			
			Abiatic acid 66 1-Phenanthrenecarb	513347	000514-10-3	45
			oxylic acid, 1,2,3,4,4a,4b,5,6,10,			
			10a-decahydro-1,4a-dimethyl-7-(1-m			
			ethyl-ethyl)-, [1R-(1.alpha.,4a.bet			
			a.,4b.alpha.,10a.alpha.)]- 66 Podo			
			ca-pa-7,13-dien-15-oic acid, 13-is			
			opropyl- 66 L-abiatic acid			

Data Path : F:\DATA MS\daa\
 Data File : WLM-10p-sen-160c-3jma.D
 Acq On : 9 Oct 2019 17:59
 Operator :
 Sample :
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area%	Library/ID	Ref#	CAS#	Qual
23	39.014	0.14	D:\DATABASE\DEMO.L			
			Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo caspa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid	513378	000514-10-3	89
			Falustic acid §§ Podocarpa-8,13-d ien-15-oic acid, 13-isopropyl- §§ 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,5,6,9,10,10a-decahydro-1,4 a-dimethyl-7-(1-methylethyl)-, (1R -(1.alpha.,4a.beta.,10a.alpha.))- §§ 8,13-Abietadien-18-oic acid	513439	001945-53-5	83
			Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo caspa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid	513347	000514-10-3	78

Data Path : F:\DATA MS\daa\
 Data File : WLM-10p-ssen-160c-4jm.D
 Acq On : 12 Oct 2019 11:41
 Operator :
 Sample :
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.a

Px#	RT	Area#	Library/ID	Ref#	CAS#	Qual
1	1.962	6.13	D:\DATABASE\DEMO.L Methyl Alcohol §§ Methanol §§ Carb incl §§ Methyl Hydroxide METHANOL §§ HYDROXYMETHANE §§ ALCO HOL, METHYL §§ ALCOOL METHYLIQUE Methyl Alcohol §§ Methanol §§ Carb incl §§ Methyl Hydroxide	5073	000067-56-1	2
2	2.065	0.01	D:\DATABASE\DEMO.L DECANE-3,4-D2 FORMIC ACID, PROPYL ESTER §§ PROPY L FORMATE §§ FORMIATE DE PROPYLE § § HCOOCH2CH2CH3 HEXANE, 3-METHYL- §§ 3-METHYLHEXAN E §§ 2-ETHYLPENTANE §§ HEXANE, 3-M ETHYL	22506 5244	019165-57-2 000110-74-7	39 33
3	2.135	0.16	D:\DATABASE\DEMO.L Pentane, 2,4-dimethyl- §§ 2,4-Dime thylpentane Pentane, 2,4-dimethyl- §§ 2,4-Dime thylpentane PENTANE, 2,2-DIMETHYL- §§ 2,2-DIME THYLPENTANE	18753 18750	000108-08-7	91 87
4	2.205	11.78	D:\DATABASE\DEMO.L HEXANE, 3-METHYL- §§ 3-METHYLHEXAN E §§ 2-ETHYLPENTANE §§ HEXANE, 3-M ETHYL Hexane, 3-methyl- §§ 2-Ethylpenta n §§ 3-Methylhexane Hexane, 3-methyl- §§ 2-Ethylpenta n §§ 3-Methylhexane	18994	000589-34-4	83
5	2.243	4.56	D:\DATABASE\DEMO.L Cyclopentane, 1,3-dimethyl-, cis- §§ cis-1,3-Dimethylcyclopentane §§ 1,3-Dimethylcyclopentane cis §§ 1 3-Dimethylcyclopentane # 1,3-DIMETHYLCYCLOPENTANE §§ CYCLOP ENTANE, 1,3-DIMETHYL-, CIS- §§ 1,3 -DIMETHYLCYCLOPENTANE (CIS) §§ 1,3 -DIMETHYLCYCLOPENTANE CIS Cyclopentane, 1,3-dimethyl- §§ 1,3 -Dimethylcyclopentane	62231	002532-58-3	91
6	2.335	6.74	D:\DATABASE\DEMO.L CYCLOHEXANE, METHYL- §§ METHYLCYCL OHEXANE §§ 1-METHYLCYCLOHEXANE §§ CYCLOHEXANE, METHYL CYCLOHEXANE, METHYL- §§ METHYLCYCL OHEXANE §§ 1-METHYLCYCLOHEXANE §§ CYCLOHEXANE, METHYL Cyclohexane, methyl- §§ Cyclohexyl methane §§ Hexahydrotoluene §§ Met hylcyclohexane	141469	000108-87-2	96
7	2.421	60.91	D:\DATABASE\DEMO.L Toluene §§ Benzene, methyl §§ Meth	158579	000108-88-3	91

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsen-160c-4jm.D
 Acq On : 12 Oct 2019 11:41
 Operator :
 Sample :
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0
 Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

k#	RT	Area#	Library/ID	Ref#	CAS#	Qual
			acide \$\$ Methylbenzene			
			BENZENE, METHYL- \$\$ METHYLBENZENE	158622	000108-88-3	91
			\$\$ TOLUENE \$\$ ANTISAL 1A			
			Toluene \$\$ Benzene, methyl \$\$ Meth	158580	000108-88-3	91
			acide \$\$ Methylbenzene			
8	2.745	1.06	D:\DATABASE\DEMO.L			
			Cyclohexane, ethyl- \$\$ Ethylcyclohexane	141506	001678-91-7	93
			CYCLOHEXANE, ETHYL- \$\$ ETHYLCYCLOHEXANE	141561	001678-91-7	93
			EXANE \$\$ ETHYL CYCLOHEXANE \$\$ ETHYLCYCLOHEXAN	141562	001678-91-7	76
			CYCLOHEXANE, ETHYL- \$\$ ETHYLCYCLOHEXANE	141562	001678-91-7	76
			EXANE \$\$ ETHYL CYCLOHEXANE \$\$ ETHYLCYCLOHEXAN			
9	2.875	0.38	D:\DATABASE\DEMO.L			
			Toluene \$\$ Benzene, methyl \$\$ Meth	158586	000108-88-3	93
			acide \$\$ Methylbenzene			
			BENZENE, METHYL- \$\$ METHYLBENZENE	158623	000108-88-3	90
			\$\$ TOLUENE \$\$ ANTISAL 1A			
			METHYLFULVENE	158616	000000-00-0	90
10	17.320	0.03	D:\DATABASE\DEMO.L			
			2H-2,4A-METHANONAPHTHALENE, 1,3,4,5,6,7-HEXAHYDRO-1,1,5,5-TETRAMETHYL-, (2S)- \$\$ (-)-ISOLONGIFOLENE	350804	001135-66-6	98
			L-, (2S)- \$\$ (-)-ISOLONGIFOLINE			
			\$\$ (2S)-1,3,4,5,6,7-HEXAHYDRO-1,1,5,5-TETRAMETHYL-2H-2,4A-METHANONAPHTHALENE			
			2H-2,4a-Methanonaphthalene, 1,3,4,5,6,7-hexahydro-1,1,5,5-tetramethyl-, (2S)- \$\$ 2H-2,4a-Methanonaphthalene, 1,3,4,5,6,7-hexahydro-1,1,5,5-tetramethyl-, (2S,4aR)-(-)- \$\$ Isolongifolene	350641	001135-66-6	98
			\$\$ (-)-Isolongifolene			
			2H-2,4A-METHANONAPHTHALENE, 1,3,4,5,6,7-HEXAHYDRO-1,1,5,5-TETRAMETHYL-, (2S)- \$\$ (-)-ISOLONGIFOLENE	350800	001135-66-6	98
			L-, (2S)- \$\$ (-)-ISOLONGIFOLINE			
			\$\$ (2S)-1,3,4,5,6,7-HEXAHYDRO-1,1,5,5-TETRAMETHYL-2H-2,4A-METHANONAPHTHALENE			
11	17.714	0.01	D:\DATABASE\DEMO.L			
			2,2,3,3,4,4,5,5-OCTAFLUORO-N-(3-METHOXYPHENYL)PENTANAMIDE	7474	339166-43-7	37
			\$\$ PENTANAMIDE, 2,2,3,3,4,4,5,5-OCTAFLUORO-N-(3-METHOXYPHENYL)-			
			2-METHOXY-4-(METHOXYMETHYL)-6-METHYLNICOTINONITRILE	7347	063644-84-8	9
			\$\$ PYRIDINE-3-CARBONITRILE, 2,4-DIMETHOXY-6-METHYL-1,3-OXATHIOL-1-IUM, 4-HYDROXY-2-((1-METHYLETHYL)THIO)-5-(TRIFLUOROACETYL)-, HYDROXIDE, INNER SALT	7423	096088-83-4	9
			\$\$ 2-ISOPROPYLTHIO-5-TRIFLUOROACETYL-1,3-OXATHIOLIUM-4-OLAT			
12	28.605	0.01	D:\DATABASE\DEMO.L			

Data Path : F:\DATA MS\daa\
 Data File : WLM-10preeen-160c-4jm.D
 Acq On : 12 Oct 2019 11:41
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 Sample :
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

Pk#	RT	Area#	Library/ID	Ref#	CAS#	Qual
			4-(METHOXYMETHYL)-6-METHYL-2-PHENO XYNICOTINONITRILE §§ PYRIDINE-3-CA RBNITRILE, 4-METHOXYMETHYL-6-METH YL-2-PHENOXY-	7413	332057-36-0	16
			3-(3-OXO-3H-BENZO[F]CHROMEN-2-YL)- 2,4(1H,3H)-QUINOLINEDIONE §§ 4-HYD ROXY-3-(2-OXO-2H-1-OXA-3-PHENANTHR YL)-2(1H)-QUINOLINONE	7476	999007-47-7	9
			4-BROMO-N-[(6-METHYL-2-PYRIDYL)AMI NOMETHYL]PHTHALIMIDE §§ 5-BROMO-2- {[(6-METHYL-2-PYRIDINYL)AMINO]METH YL}-1H-ISOINDOLE-1,3(2H)-DIONE	7473	999007-47-4	9
13	30.301	0.03	D:\DATABASE\DEMO.L ENT-PIMARA-8,15-DIENE	481166	021561-92-2	91
			4H,8H-BENZO[1,2-B:3,4-B']DIPYRAN-4 -ONE, 5-METHOXY-2,8,8-TRIMETHYL- 5 § 5-METHOXY-2,8,8-TRIMETHYL-4H,8H- BENZO[1,2-B:3,4-B']DIPYRAN-4-ONE § § 5-O-METHYLLALOPTAEROXYLIN §§ ALL OPTAEROXYLIN METHYL ETHER	481134	035930-31-5	78
			PIMARA-8,15-DIENE §§ PHENANTHRENE, 7-ETHENYL-1,2,3,4,4A,5,6,7,8,9,10 ,10A-DODECAHYDRO-1,1,4A,7-TETRAMET HYL- §§ 7.ALPHA.-ETHENYL-1,1,4A,7. BETA.-TETRAMETHYL-1,2,3,4,4A,5,6,7 ,8,9,10,10A-DODECAHYDROPHENANTHREN	481165	053255-56-6	74
14	30.717	0.01	D:\DATABASE\DEMO.L 4-(METHOXYMETHYL)-6-METHYL-2-PHENO XYNICOTINONITRILE §§ PYRIDINE-3-CA RBNITRILE, 4-METHOXYMETHYL-6-METH YL-2-PHENOXY-	7413	332057-36-0	22
			4-BROMO-N-[(6-METHYL-2-PYRIDYL)AMI NOMETHYL]PHTHALIMIDE §§ 5-BROMO-2- {[(6-METHYL-2-PYRIDINYL)AMINO]METH YL}-1H-ISOINDOLE-1,3(2H)-DIONE	7473	999007-47-4	10
			9-(4-HYDROXYPHENYL)-3,3,6,6-TETRAM ETHYL-3,4,6,7,8A,9-HEXAHYDRO-1,8(2 H,5H)-ACRIDINEDIONE	7482	999007-48-3	9
15	31.219	0.00	D:\DATABASE\DEMO.L 4-(METHOXYMETHYL)-6-METHYL-2-PHENO XYNICOTINONITRILE §§ PYRIDINE-3-CA RBNITRILE, 4-METHOXYMETHYL-6-METH YL-2-PHENOXY-	7413	332057-36-0	10
			2-METHOXY-4-(METHOXYMETHYL)-6-METH YLNICOTINONITRILE §§ PYRIDINE-3-CA RBNITRILE, 2,4-DIMETHOXY-6-METHYL	7347	063644-84-8	9
			3-(3-OXO-3H-BENZO[F]CHROMEN-2-YL)- 2,4(1H,3H)-QUINOLINEDIONE §§ 4-HYD ROXY-3-(2-OXO-2H-1-OXA-3-PHENANTHR YL)-2(1H)-QUINOLINONE	7476	999007-47-7	9
16	31.262	0.00	D:\DATABASE\DEMO.L 4-(METHOXYMETHYL)-6-METHYL-2-PHENO XYNICOTINONITRILE §§ PYRIDINE-3-CA RBNITRILE, 4-METHOXYMETHYL-6-METH YL-2-PHENOXY-	7413	332057-36-0	16

Data Path : F:\DATA MS\daa\
 Data File : WLM-10pssan-160c-4jm.D
 Acq On : 12 Oct 2019 11:41
 Operator :
 Sample :
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

K#	RT	Area#	Library/ID	Ref#	CAS#	Qual
			3-(3-OXO-3H-BENZO[F]CHROMEN-2-YL)- 2,4(1H,3H)-QUINOLINEDIONE §§ 4-HYD ROXY-3-(2-OXO-2H-1-OXA-3-PHENANTH YL)-2(1H)-QUINOLINONE	7476	999007-47-7	9
			4-BROMO-N-[(6-METHYL-2-PYRIDYL)AMI NOMETHYL]PHTHALIMIDE §§ 5-BROMO-2- {[(6-METHYL-2-PYRIDINYL)AMINO]METH YL}-1H-ISOINDOLE-1,3(2H)-DIONE	7473	999007-47-4	9
17	31.700	0.03	D:\DATABASE\DEMO.L 6-ETHYL-2-METHYL-4,6-DIHYDRO-2H-[1 ,4]OXAZINO[3,2-C]QUINOLINE-3,5-DIO NE §§ 6-ETHYL-2-METHYL-2H-1-OXA-4, 6-PHENANTHROLINE-3,5(4H,6H)-DIONE §§ 6-ETHYL-2-METHYL-6,10B-DIHYDRO- 2H-[1,4]OXAZINO[3,2-C]QUINOLINE-3, 5-DIONE	7414	334023-40-4	27
			2-METHOXY-4-(METHOXYMETHYL)-6-METH YLNICOTINONITRILE §§ PYRIDINE-3-CA RBNITRILE, 2,4-DIMETHOXY-6-METHYL 1-Tetradecanamine §§ Tetradecylami ne §§ Armeen 14 §§ Myristylamine	7347	063644-84-8	14
			1-Tetradecanamine §§ Tetradecylami ne §§ Armeen 14 §§ Myristylamine	4817	002016-42-4	10
18	31.830	0.01	D:\DATABASE\DEMO.L 4-(METHOXYMETHYL)-6-METHYL-2-PHENO XYNICOTINONITRILE §§ PYRIDINE-3-CA RBNITRILE, 4-METHOXYMETHYL-6-METH YL-2-PHENOXY-	7413	332057-36-0	25
			3-(3-OXO-3H-BENZO[F]CHROMEN-2-YL)- 2,4(1H,3H)-QUINOLINEDIONE §§ 4-HYD ROXY-3-(2-OXO-2H-1-OXA-3-PHENANTH YL)-2(1H)-QUINOLINONE	7476	999007-47-7	10
			2,2'-(1,4-Piperazinediyl)bis[N-(4- methoxyphenyl)succinimide]	7324	293766-05-9	9
19	31.986	0.02	D:\DATABASE\DEMO.L 6-ETHYL-2-METHYL-4,6-DIHYDRO-2H-[1 ,4]OXAZINO[3,2-C]QUINOLINE-3,5-DIO NE §§ 6-ETHYL-2-METHYL-2H-1-OXA-4, 6-PHENANTHROLINE-3,5(4H,6H)-DIONE §§ 6-ETHYL-2-METHYL-6,10B-DIHYDRO- 2H-[1,4]OXAZINO[3,2-C]QUINOLINE-3, 5-DIONE	7414	334023-40-4	25
			2,2'-(1,4-Piperazinediyl)bis[N-(4- methoxyphenyl)succinimide]	7324	293766-05-9	9
			2,2'-(1,4-Piperazinediyl)bis[N-(4- METHOXYPHENYL)SUCCINIMIDE]	7325	293766-05-9	9
20	32.105	0.02	D:\DATABASE\DEMO.L 3-Methyl-1-phenyl-2-azafloresene §§ 3-Methyl-1-phenyl-9H-indeno[2,1-c]pyridine # 3-METHYL-3-PHENYL-3H-NAPHTHO[2,3-B]PYRAN Benzanamine, 4-methoxy-3-tricyclo[3.3.1.1(3,7)]dec-1-yl-	480961	062578-39-6	47
			3-METHYL-3-PHENYL-3H-NAPHTHO[2,3-B]PYRAN	481155	000000-00-0	47
			Benzanamine, 4-methoxy-3-tricyclo[3.3.1.1(3,7)]dec-1-yl-	480906	999480-91-8	46
21	32.305	0.01	D:\DATABASE\DEMO.L 4-(METHOXYMETHYL)-6-METHYL-2-PHENO	7413	332057-36-0	25

Data Path : F:\DATA MS\data\
 Data File : WLM-10press-180c-4jm.D
 Acq On : 12 Oct 2019 11:41
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 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area#	Library/ID	Ref#	CAS#	Qual
			XYNICOTINONITRILE §§ PYRIDINE-3-CAR BONITRILE, 4-METHOXYMETHYL-6-METH YL-2-PHENOXY-			
			1-Dodecanamine §§ Dodecylamine §§ n-Dodecylamine §§ Alamine 4	4652	000124-22-1	9
			1-DODECANAMINE §§ 1-AMINODODECANE §§ 1-DODECYLAMINE §§ ALAMINE 4	4661	000124-22-1	9
22	32.391	0.02	D:\DATABASE\DEMO.L 1-PHENYL-3-METHYL-4-(2-PROP-2-YL)- 5-ACETOXYPYRAZOLE	419699	000000-00-0	38
			1-PHENYL-2-ACETYL-3-METHYL-5-(PROP -2-YL)-2,5-DIHYDROPYRAZOLE-5-ONE	419698	000000-00-0	38
			5-Trifluoromethyl-3-methylthiazoli dina-2-thione §§ 3-Methyl-5-(trifl uoromethyl)-1,3-thiazolidina-2-thi one #	419133	186791-22-0	35
23	32.608	0.00	D:\DATABASE\DEMO.L 4-(METHOXYMETHYL)-6-METHYL-2-PHENO XYNICOTINONITRILE §§ PYRIDINE-3-CAR BONITRILE, 4-METHOXYMETHYL-6-METH YL-2-PHENOXY-	7413	332057-36-0	16
			1,12-DODECANEDIAMINE §§ DODECANE-1 ,12-DIAMINE §§ 1, 12-DIAMINODODECA NE §§ 1, 12-DODECANEDIAMINE	4754	002783-17-7	9
			1,12-DODECANEDIAMINE §§ DODECANE-1 ,12-DIAMINE	4751	999004-75-2	9
24	32.780	0.01	D:\DATABASE\DEMO.L 1-Hexadecanamine §§ Hexadecylamine §§ n-Cetylamine §§ n-Hexadecylami ne	4902	000143-27-1	38
			2-METHOXY-4-(METHOXYMETHYL)-6-METH YLNICOTINONITRILE §§ PYRIDINE-3-CAR BONITRILE, 2,4-DIMETHOXY-6-METHYL	7347	063644-84-8	16
			4-(METHOXYMETHYL)-6-METHYL-2-PHENO XYNICOTINONITRILE §§ PYRIDINE-3-CAR BONITRILE, 4-METHOXYMETHYL-6-METH YL-2-PHENOXY-	7413	332057-36-0	12
25	32.975	0.00	D:\DATABASE\DEMO.L 2-METHOXY-4-(METHOXYMETHYL)-6-METH YLNICOTINONITRILE §§ PYRIDINE-3-CAR BONITRILE, 2,4-DIMETHOXY-6-METHYL	7347	063644-84-8	12
			Taurolidina §§ 2H-1,2,4-Thiadiazin e, 4,4'-methylenebis(tetrahydro-, 1,1,1',1'-tetraoxide §§ 4,4'-Methy lenebis(tetrahydro-1,2,4-thiadiaz ine 1,1-dioxide) §§ Taurolin	4983	019388-87-5	9
			D.C.E.B.A.	454	000000-00-0	9
26	33.375	0.01	D:\DATABASE\DEMO.L 6-ETHYL-2-METHYL-4,6-DIHYDRO-2H-(1 ,4)OXAZINO[3,2-C]QUINOLINE-3,5-DIO NE §§ 6-ETHYL-2-METHYL-2H-1-OXA-4, 6-PHENANTHROLINE-3,5(4H,6H)-DIONE §§ 6-ETHYL-2-METHYL-6,10B-DIHYDRO- 2H-1,4-OXAZINO[3,2-C]QUINOLIN-3-ONE	7414	334023-40-4	20

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsn-160c-4jm.D
 Acq On : 12 Oct 2019 11:41
 Operator :
 Sample :
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			5-DIONE			
			4-(METHOXYMETHYL)-6-METHYL-2-PHENOXYNICOTINONITRILE §§ PYRIDINE-3-CARBONITRILE, 4-METHOXYMETHYL-6-METHYL-2-PHENOXY-Taurolidina §§ 2H-1,2,4-Thiadiazine, 4,4'-methylenabis(tetrahydro-, 1,1,1',1'-tetraoxida §§ 4,4'-Methylenabis(tetrahydro-1,2,4-thiadiazine 1,1-dioxide) §§ Taurolin	7413	332057-36-0	12
			Taurolidina §§ 2H-1,2,4-Thiadiazine, 4,4'-methylenabis(tetrahydro-, 1,1,1',1'-tetraoxida §§ 4,4'-Methylenabis(tetrahydro-1,2,4-thiadiazine 1,1-dioxide) §§ Taurolin	4983	019388-87-5	10
27	33.499	0.11	D:\DATABASE\DEMO.L			
			Diazene, bis(4-ethoxyphenyl)-, 1-oxide §§ Acetybenzene, 4,4'-diethoxy- §§ p,p'-Acetyphenetole §§ 4,4'-Acetydiphenetole	223735	004792-83-0	46
			1,2-BIS(4-ETHOXYPHENYL) DIAZENE 1-OXIDE §§ 4,4'-BIS(ETHOXY)AZOXYBENZENE §§ 4,4'-AZOXYDIPHENETOLE §§ 4,4'-AZOXYPHENETOLE	223740	004792-83-0	46
			14-ISOPROPYL-3,7,11-TRIMETHYL-1,3,6,10-CYCLOTETRADECATETRAENE §§ 1,3,6,10-CYCLOTETRADECATETRAENE, 3,7,11-TRIMETHYL-14-(1-METHYLETHYL)-, [S-(E,Z,E,E)]- §§ (+)-CEMBRENE §§ (+)-THUMBERGEN	181371	001898-13-1	45
28	33.693	0.01	D:\DATABASE\DEMO.L			
			2-METHOXY-4-(METHOXYMETHYL)-6-METHOXYNICOTINONITRILE §§ PYRIDINE-3-CARBONITRILE, 2,4-DIMETHOXY-6-METHYLTaurolidina §§ 2H-1,2,4-Thiadiazine, 4,4'-methylenabis(tetrahydro-, 1,1,1',1'-tetraoxida §§ 4,4'-Methylenabis(tetrahydro-1,2,4-thiadiazine 1,1-dioxide) §§ Taurolin	7347	063644-84-8	14
			Taurolidina §§ 2H-1,2,4-Thiadiazine, 4,4'-methylenabis(tetrahydro-, 1,1,1',1'-tetraoxida §§ 4,4'-Methylenabis(tetrahydro-1,2,4-thiadiazine 1,1-dioxide) §§ Taurolin	4983	019388-87-5	10
			2,2'-(1,4-Piperazinediyl)bis[N-(4-methoxyphenyl)succinimide]	7524	293766-05-9	10
29	33.791	0.02	D:\DATABASE\DEMO.L			
			7-BENZYLOXY-2-HYDROXY-2H-[1,4]BENZOXAZIN-3(4H)-ONE	166364	000000-00-0	27
			3-Phenylpropanoic acid, 2,7-dimethyl-7-yl oct-7-en-5-yn-4-yl ester	167176	999167-17-9	10
			9-Benzyladenine N(1)-oxide §§ 9-Benzyl-1-oxido-9H-purin-6-ylamine #	164412	004261-16-9	10
30	33.861	0.07	D:\DATABASE\DEMO.L			
			1-Methyl-10,18-bisnorabieta-8,11,13-triene	466158	999466-16-6	94
			3,3,4,5,5,8-HEXAMETHYL-3,5,6,7-TETRAHYDRO-9-INDACEN-1(2H)-ONE §§ 9-INDACEN-1(2H)-ONE, 3,5,6,7-TETRAHYDRO-3,3,4,5,5,8-HEXAMETHYL- § 3,3,4,5,5,8-HEXAMETHYL-1-S-HYDRINDACENONE	466221	038754-94-8	91
			9-Indacen-1(2H)-one, 3,5,6,7-tetrahydro-3,3,4,5,5,8-hexamethyl- § 3,3,4,5,5,8-Hexamethyl-3,5,6,7-tetra-	466171	038754-94-8	91

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsen-160c-4jm.D
 Acq On : 12 Oct 2019 11:41
 Operator :
 Sample :
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0
 Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			ahydro-S-indacen-1(2H)-one #			
31	34.136	0.01	D:\DATABASE\DEMO.L No matches found			
32	34.190	0.00	D:\DATABASE\DEMO.L 3-HYDROXY-4-METHOXY-2,3,6A,9A-TETRAHYDROCYCLOPENTA[C]FURO[3',2':4,5]FURO[2,3-H]CHROMENE-1,11-DIONE §§ CYCLOPENTA[C]FURO[3',2':4,5]FURO[2,3-H][1]BENZOPYRAN-1,11-DIONE, 2,3,6A,9A-TETRAHYDRO-3-HYDROXY-4-METHOXY-, [3S-(3.ALPHA.,6A.ALPHA.,9A.ALPHA.)]-	7461	052819-96-2	6
33	34.212	0.00	D:\DATABASE\DEMO.L 2-METHOXY-4-(METHOXYMETHYL)-6-METHYLNICOTINONITRILE §§ PYRIDINE-3-CARBONITRILE, 2,4-DIMETHOXY-6-METHYL-1-Hexadecanamine §§ Hexadecylamine §§ n-Cetylamine §§ n-Hexadecylamine Carbamic acid, (2-chloroethylidene)bis-, diethyl ester §§ Carbamic acid, (2-chloroethylidene)di-, diethyl ester	7347 4902 3171	063644-84-8 000143-27-1 005336-13-0	22 10 9
34	34.315	0.05	D:\DATABASE\DEMO.L 1-Phenanthrene-9-carboxylic acid, 7-phenyl-1,2,3,4,4a,5,6,7,8,9,10,10a-dodecahydro-1,4a,7-trimethyl-, methyl ester, [1R-(1.alpha.,4a.beta.,7.beta.,10a.alpha.)]- §§ Podocarp-8-en-15-oic acid, 13.alpha.-methyl-13-vinyl-, methyl ester METHYL PIMARA-8,15-DIEN-18-OATE §§ 1-PHENANTHRENECARBOXYLIC ACID, 7-ETHENYL-1,2,3,4,4A,5,6,7,8,9,10,10A-DODECAHYDRO-1,4A,7-TRIMETHYL-, METHYL ESTER, [1R-(1.ALPHA.,4A.BETA.,7.BETA.,10A.ALPHA.)]- §§ METHYL 8,15-PIMARADIEN-18-OATE METHYL PIMARA-7,15-DIEN-18-OATE §§ 1-PHENANTHRENECARBOXYLIC ACID, 7-ETHENYL-1,2,3,4,4A,4B,5,6,7,8,10,10A-DODECAHYDRO-1,4A,7-TRIMETHYL-, METHYL ESTER, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,7.ALPHA.,10A.ALPHA.)]- §§ ISOPIMARATE §§ ISOPIMARIC ACID, METHYL ESTER	466507 466513 466517	003582-26-1 003582-26-1 001686-62-0	86 86 55
35	34.536	0.06	D:\DATABASE\DEMO.L KAUR-16-EN-18-OIC ACID §§ KAUR-16-EN-18-OIC ACID, (4.BETA.)- §§ (-)-KAURMENOIC ACID §§ (4-BETA)-KAUR-16-EN-18-OIC ACID ABIETA-7,13-DIEN-18-OIC ACID §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO- §§	168418	020316-84-1	45
				168420	000314-10-3	25

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 Misc :
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Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area#	Library/ID	Ref#	CAS#	Qual
			1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A.ALPHA.)]-	163414	999163-41-7	14
			4H-[1,2,4]Triazole-3-thiol, 4-benzyl-5-furan-2-yl-			
36	34.676	0.00	D:\DATABASE\DEMO.L 2H-3,9A-METHANO-1-BENZOXEPIN, OCTAHYDRO-2,2,5A,9-TETRAMETHYL-, [3R-(3.ALPHA.,5A.ALPHA.,9.ALPHA.,9A.ALPHA.)]-	3110	005956-09-2	10
			RO-99 .BETA.-AGAROFURAN, DIHYDRO-99 .BETA.-DIHYDROAGAROFURAN			
			2H-3,9A-METHANO-1-BENZOXEPIN, OCTAHYDRO-2,2,5A,9-TETRAMETHYL-Ethyl 2-((diethoxyphosphoryl)oxy)-3,3,3-trifluoropropionate	3375	999003-37-6	2
37	34.790	0.03	D:\DATABASE\DEMO.L 2H-3,9A-METHANO-1-BENZOXEPIN, OCTAHYDRO-2,2,5A,9-TETRAMETHYL-, [3R-(3.ALPHA.,5A.ALPHA.,9.ALPHA.,9A.ALPHA.)]-	3110	005956-09-2	8
			RO-99 .BETA.-AGAROFURAN, DIHYDRO-99 .BETA.-DIHYDROAGAROFURAN			
			2H-3,9A-METHANO-1-BENZOXEPIN, OCTAHYDRO-2,2,5A,9-TETRAMETHYL-Diethyl 3-chloro-2-hydroxypropylmalonate	3235	999003-23-6	4
			DIETHYL 2-(3-CHLORO-2-HYDROXYPROPYL)MALONATE	3236	999003-23-7	4
38	34.925	0.03	D:\DATABASE\DEMO.L KAUR-16-EN-18-OIC ACID	168418	020316-84-1	14
			EN-18-OIC ACID, (4.BETA.)-			
			KAUR-16-EN-18-OIC ACID, (4.BETA.)-			
			KAUR-16-EN-18-OIC ACID, (4.BETA.)-			
			ABIETA-7,13-DIEN-18-OIC ACID	168419	000514-10-3	11
			1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A.ALPHA.)]-	162408	999162-41-1	10
			1-benzylindole			
39	35.028	0.04	D:\DATABASE\DEMO.L 4,5-Bis-dimethoxymethyl-octanedioic acid, dimethyl ester	124248	999124-25-1	53
			1-Cyclopentenedecarboxylic acid, 3-hydroxy-5-(1-hydroxy-2,2-dimethoxyethyl)-, methyl ester, (1'S,3R,5R)-(.+-.)-	123361	999123-36-4	53
			2-Cyclohexyldimethylallyloxy-pentadecane	124366	999124-36-9	53
40	35.135	0.03	D:\DATABASE\DEMO.L			

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 Data File : WLM-10pssan-160c-4jm.D
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 ALS Vial : 1 Sample Multiplier: 1

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 Integration Events: ChemStation Integrator - autoint1.e

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			BUTYL 2-(METHYLAMINO)BENZOATE §§ A	209256	015236-34-7	18
			NTHRANILIC ACID, N-METHYL-, BUTYL ESTER §§ N-BUTYL O-METHYLAMINO BENZOATE			
			3-(2-PHENYLETHYL)BENZONITRILE §§ B	162420	034176-91-5	14
			ENCONITRILE, N-PHENETHYL- §§ 1-(3-CYANOPHENYL)-2-PHENYLETHANE §§ M-CYANO-1,2-DIPHENYLETHANE			
			N-Benzoyl-L-tyrosine ethyl ester §§ Benzamide, N-(ethoxycarbonyl)methyl- §§ Ethyl (benzoylamino)acetate #	209238	001499-53-2	14
11	35.184	0.01	D:\DATABASE\DEMO.L			
			1,5,11-CYCLOTETRADECATRIENE-1-CARBOXYLIC ACID, 11-(HYDROXYMETHYL)-8-[1-(HYDROXYMETHYL)ETHENYL]-3-METHYL-, (2Z,2E)- §§ 9-METHYL-1-HYDROXYMETHYL-5-HYDROXYCARBONYL-12-(1-HYDROXYMETHYL)-ETHENYL-CYCLOTETRADECATRIENE-1,5,9-TRI-ENE	170254	099486-51-8	9
			BENZENE, HEXADECYL- §§ 1-PHENYLHEXADECANE §§ HEXADECYLBENZENE §§ HEXADECANE, 1 (OR 16)-PHENYL-2(SH)-Furanone, 3-(2-benzyl-2-propenyl)-4-methyl-5-phenyl-	168424	001459-09-2	9
				168490	999168-49-3	9
12	35.211	0.01	D:\DATABASE\DEMO.L			
			KAUR-16-EN-18-OIC ACID §§ KAUR-16-EN-18-OIC ACID, (4.BETA.)- §§ (-)-KAURMENOIC ACID §§ (4-BETA)-KAUR-16-EN-18-OIC ACID	168418	020316-84-1	12
			1H-Furazole-1-acetamide, 4-iodo-N-(phenylmethyl)-	170579	999170-58-2	12
			N-(4-Isopropylbenzyl)-3-phenylpropanamide §§ N-(4-Isopropylbenzyl)-3-phenylpropanamide #	166995	300862-83-3	11
13	35.314	0.02	D:\DATABASE\DEMO.L			
			bis[(2Z)-Hex-2-en-1-yloxy] (dimethyl)silane	123429	999123-43-2	45
			KAUR-16-EN-18-OIC ACID §§ KAUR-16-EN-18-OIC ACID, (4.BETA.)- §§ (-)-KAURMENOIC ACID §§ (4-BETA)-KAUR-16-EN-18-OIC ACID	168418	020316-84-1	35
			N-(2-(3,4-BIS((TRIMETHYLSILYL)OXY)PHENYL)-2-((TRIMETHYLSILYL)OXY)ETHYL)(TRIMETHYL)-N-(TRIMETHYLSILYL)SILANAMINE §§ MOREPINEPHRINE, N,N,O,O',O"-PENTAKIS(TRIMETHYLSILYL)- § MOREPINEPHRINE-PENTATMS	7530	056114-59-1	22
14	35.395	0.04	D:\DATABASE\DEMO.L			
			2,5-DIMETHYLBICYCLO[3.3.0]OCT-6-EN-8-ONE	227241	000000-00-0	38
			1a,2,5,5-Tetramethyl-cis-1a,4a,5,6,7,8-hexahydro-gamma-chromene	227946	999227-94-9	38
			1,3,4-Thiadiazol-2-amine, 5-[[4-(p-toluenophenyl)methyl]thio]-	228627	999228-63-0	35

Data Path : F:\DATA MS\daa\
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 Integration Events: ChemStation Integrator - autoint1.e

X#	RT	Area#	Library/ID	Ref#	CAS#	Qual
45	35.492	1.11	D:\DATABASE\DEMO.L Xanthen-9-one, 1-hydroxy-3,5,8-tri methoxy- §§ 5,8-Dimethylbellidifol in §§ 1-Hydroxy-3,5,8-trimethoxyxa nthen-9-one §§ 1-Hydroxy-3,5,8-tri methoxy-9H-xanthen-9-one # Androst-5-en-17-ol, 4,4-dimethyl- ROSIN ACIDS	504583 513436 504611	049599-09-9 999513-44-9 000000-00-0	50 46 41
46	35.665	0.08	D:\DATABASE\DEMO.L Androst-5-en-17-ol, 4,4-dimethyl- 1-Hydroxy-3,7,8-trimethoxyxanthen- 9-one §§ 8-Hydroxy-1,2,6-trimethox y-9H-xanthen-9-one # 2-ACETYL-4,9-DIMETHOXY-7-METHYL-5H -FURO[3,2-G][1]-BENZOPYRAN-5-ONE	513436 504580	999513-44-9 020882-69-3	83 43
47	35.762	0.24	D:\DATABASE\DEMO.L DEHYDROABIETIC ACID 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, methyl ester, [1R-(1.alpha.,4a.beta.,10a. alpha.)]- §§ Podocarpa-8,11,13-tri en-15-oic acid, 13-isopropyl-, met hyl ester §§ Methyl dehydroabietat METHYL ABIETA-8,11,13-TRIEN-18-OAT E §§ 1-PHENANTHRENECARBOXYLIC ACID , 1,2,3,4,4A,9,10,10A-OCTAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, ME THYL ESTER, [1R-(1.ALPHA.,4A.BETA. ,10A.ALPHA.)]- §§ DEHYDROABIETIC A CID METHYL ESTER §§ METHYL DEHYDRO ABIETATE	464556 464538 464550	000000-00-0 001235-74-1 001235-74-1	97 96 96
48	35.908	0.07	D:\DATABASE\DEMO.L BENZ(A)ANTHRACENE KAUR-16-EN-18-OIC ACID §§ KAUR-16- EN-18-OIC ACID, (4.BETA.)- §§ (-)- KAURNOIC ACID §§ (4-BETA)-KAUR-1 6-EN-18-OIC ACID Palustric acid §§ Podocarpa-8,13-d ien-15-oic acid, 13-isopropyl- §§ 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,5,6,9,10,10a-decahydro-1,4 a-dimethyl-7-(1-methylethyl)-, (1R -(1.alpha.,4a.beta.,10a.alpha.)- §§ 8,13-Abietadien-18-oic acid	513655 168418 513439	099707-96-7 020316-84-1 001945-53-5	64 47 41
49	35.930	0.06	D:\DATABASE\DEMO.L Pimaric acid §§ 1-Phenanthrenecarb oxylic acid, 7-ethenyl-1,2,3,4,4a, 4b,5,6,7,9,10,10a-dodecahydro-1,4a ,7-trimethyl-, [1R-(1.alpha.,4a.be ta.,4b.alpha.,7.beta.,10a.alpha.)] - §§ Podocarp-8(14)-en-15-oic acid , 13.alpha.-methyl-13-vinyl- §§ D- pimaric acid	466434	000127-27-5	70

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Unknown Spectrum: Apax
 Integration Events: ChemStation Integrator - autoint1.e

K#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			Palustric acid §§ Podocarpa-8,13-d ien-15-oic acid, 13-isopropyl- §§ 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,5,6,9,10,10a-decahydro-1,4 a-dimethyl-7-(1-methylethyl)-, (1R -(1.alpha.,4a.beta.,10a.alpha.))- §§ 8,13-Abietadien-18-oic acid KAUR-16-EN-18-OIC ACID §§ KAUR-16- EN-18-OIC ACID, (4.BETA.)- §§ (-)- KAURMENOIC ACID §§ (4-BETA.)-KAUR-1 6-EN-18-OIC ACID	513439	001945-53-5	55
50	36.016	0.08	D:\DATABASE\DEMO.L Androst-5-en-17-ol, 4,4-dimethyl- 1-Hydroxy-3,7,8-trimethoxyxanthan- 9-one §§ 8-Hydroxy-1,2,6-trimethox y-9H-xanthan-9-one #	513436 304580	999513-44-9	53 46
			KAUR-16-EN-18-OIC ACID §§ KAUR-16- EN-18-OIC ACID, (4.BETA.)- §§ (-)- KAURMENOIC ACID §§ (4-BETA.)-KAUR-1 6-EN-18-OIC ACID	168418	020316-84-1	45
51	36.097	0.16	D:\DATABASE\DEMO.L 1H-NAPHTHO[2,3-C]PYRAM-5,10-DIONE, 3,4-DIHYDRO-7,8-DIMETHOXY-1,3-DIM ETHYL-, CIS-(+.-)- §§ (+,-)-CIS-7 ,9-DIMETHOXY-1,3-DIMETHYL-3,4,5,10 -TETRAHYDRONAPHTHO[2,3-C]PYRAM-5,1 0-DIONE 2-ACETYL-4,9-DIMETHOXY-7-METHYL-5H -FURO[3,2-C][1]-BENZOPYRAM-5-ONE	513558	084018-43-9	74
			KAUR-16-EN-18-OIC ACID §§ KAUR-16- EN-18-OIC ACID, (4.BETA.)- §§ (-)- KAURMENOIC ACID §§ (4-BETA.)-KAUR-1 6-EN-18-OIC ACID	168418	020316-84-1	45
52	36.194	0.05	D:\DATABASE\DEMO.L Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid 2-(DIPHENYLMETHYLENE)OCTAHYDRO-4H- INDEN-4-ONE §§ BICYCLO[4.3.0]NONAN -2-ONE, 8-(DIPHENYLMETHYLENE)- §§ BICYCLO[4.3.0]NONANE-2-ONE, 8-DIPH ENYLMETHYLENE- Bicyclo[4.3.0]nonan-2-one, 8-(diph enylmethylene)- §§ 2-(Diphenylmeth ylene)octahydro-4H-inden-4-one #	513378	000514-10-3	59
			INDEN-4-ONE §§ BICYCLO[4.3.0]NONAN -2-ONE, 8-(DIPHENYLMETHYLENE)- §§ BICYCLO[4.3.0]NONANE-2-ONE, 8-DIPH ENYLMETHYLENE- Bicyclo[4.3.0]nonan-2-one, 8-(diph enylmethylene)- §§ 2-(Diphenylmeth ylene)octahydro-4H-inden-4-one #	513666	082432-11-9	56
			INDEN-4-ONE §§ BICYCLO[4.3.0]NONAN -2-ONE, 8-(DIPHENYLMETHYLENE)- §§ BICYCLO[4.3.0]NONANE-2-ONE, 8-DIPH ENYLMETHYLENE- Bicyclo[4.3.0]nonan-2-one, 8-(diph enylmethylene)- §§ 2-(Diphenylmeth ylene)octahydro-4H-inden-4-one #	513389	082432-11-9	56
53	36.254	0.07	D:\DATABASE\DEMO.L Androst-5-en-17-ol, 4,4-dimethyl- Palustric acid §§ Podocarpa-8,13-d ien-15-oic acid, 13-isopropyl- §§ 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,5,6,9,10,10a-decahydro-1,4	513436 513439	999513-44-9	81 50

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 Integration Events: ChemStation Integrator - autoint1.e

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			a-dimethyl-7-(1-methylethyl)-, (1R -(1.alpha.,4a.beta.,10a.alpha.))- §§ 8,13-Abietadien-18-oic acid 1-Hydroxy-3,7,8-trimethoxyxanthan- 9-one §§ 8-Hydroxy-1,2,6-trimethox y-9H-xanthan-9-one #	504580	020882-69-3	41
4	36.389	0.19	D:\DATABASE\DEMO.L Methyl abietate §§ 1-Phenanthrenec arboxylic acid, 1,2,3,4,4a,4b,5,6, 10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, methyl ester, [1R -(1.alpha.,4a.beta.,4b.alpha.,10a. alpha.)]- §§ Podocarpa-7,13-dien-1 5-oic acid, 13-isopropyl-, methyl ester §§ Abalyx METHYL ABIETA-7,13-DIEN-18-OATE §§ 1-PHENANTHRENECARBOXYLIC ACID, 1, 2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1 ,4A-DIMETHYL-7-(1-METHYLETHYL)-, M ETHYL ESTER, [1R-(1.ALPHA.,4A.BETA .,4B.ALPHA.,10A.ALPHA.)]- §§ ABALY X §§ ABIETIC ACID METHYL ESTER METHYL ABIETA-7,13-DIEN-18-OATE §§ 1-PHENANTHRENECARBOXYLIC ACID, 1, 2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1 ,4A-DIMETHYL-7-(1-METHYLETHYL)-, M ETHYL ESTER, [1R-(1.ALPHA.,4A.BETA .,4B.ALPHA.,10A.ALPHA.)]- §§ ABALY X §§ ABIETIC ACID METHYL ESTER	258889	000127-25-3	97
			METHYL ABIETA-7,13-DIEN-18-OATE §§ 1-PHENANTHRENECARBOXYLIC ACID, 1, 2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1 ,4A-DIMETHYL-7-(1-METHYLETHYL)-, M ETHYL ESTER, [1R-(1.ALPHA.,4A.BETA .,4B.ALPHA.,10A.ALPHA.)]- §§ ABALY X §§ ABIETIC ACID METHYL ESTER	258918	000127-25-3	97
			METHYL ABIETA-7,13-DIEN-18-OATE §§ 1-PHENANTHRENECARBOXYLIC ACID, 1, 2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1 ,4A-DIMETHYL-7-(1-METHYLETHYL)-, M ETHYL ESTER, [1R-(1.ALPHA.,4A.BETA .,4B.ALPHA.,10A.ALPHA.)]- §§ ABALY X §§ ABIETIC ACID METHYL ESTER	480551	000127-25-3	95
5	36.513	0.11	D:\DATABASE\DEMO.L 1H-NAPHTHO(2,3-C)PYRAM-5,10-DIONE, 3,4-DIHYDRO-7,9-DIMETHOXY-1,3-DIM ETHYL-, CIS-(+,-)- §§ (+,-)-CIS-7 ,9-DIMETHOXY-1,3-DIMETHYL-3,4,5,10 -TETRAHYDRONAPHTHO(2,3-C)PYRAM-5,1 0-DIONE KAUR-16-EN-18-OIC ACID §§ KAUR-16- EN-18-OIC ACID, (4.BETA.)- §§ (-)- KAURMENOIC ACID §§ (4-BETA)-KAUR-1 6-EN-18-OIC ACID Androst-5-en-17-ol, 4,4-dimethyl-	513558	084018-43-9	90
			KAUR-16-EN-18-OIC ACID §§ KAUR-16- EN-18-OIC ACID, (4.BETA.)- §§ (-)- KAURMENOIC ACID §§ (4-BETA)-KAUR-1 6-EN-18-OIC ACID	168418	020316-84-1	64
			Androst-5-en-17-ol, 4,4-dimethyl-	513436	999513-44-9	55
6	36.610	0.27	D:\DATABASE\DEMO.L C-HYDROGEN PERDEUTERIO HEXADECANOI C ACID KAUR-16-EN-18-OIC ACID §§ KAUR-16- EN-18-OIC ACID, (4.BETA.)- §§ (-)- KAURMENOIC ACID §§ (4-BETA)-KAUR-1 6-EN-18-OIC ACID Palustric acid §§ Podocarpa-8,13-d ien-15-oic acid, 13-isopropyl- §§ 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,5,6,9,10,10a-decahydro-1,4 a-dimethyl-7-(1-methylethyl)-, (1R -(1.alpha.,4a.beta.,10a.alpha.))- §§ 8,13-Abietadien-18-oic acid	504545	039756-30-4	90
			KAUR-16-EN-18-OIC ACID §§ KAUR-16- EN-18-OIC ACID, (4.BETA.)- §§ (-)- KAURMENOIC ACID §§ (4-BETA)-KAUR-1 6-EN-18-OIC ACID	168418	020316-84-1	90
			Palustric acid §§ Podocarpa-8,13-d ien-15-oic acid, 13-isopropyl- §§	513439	001945-53-5	78

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 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area#	Library/ID	Ref#	CAS#	Qual
57	36.751	0.35	D:\DATABASE\DEMO.L Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid KAUR-16-EN-18-OIC ACID §§ KAUR-16- 168418 020316-84-1 64 EN-18-OIC ACID, (4.BETA.)- §§ (-)- KAUFMENOIC ACID §§ (4-BETA.)-KAUR-1 6-EN-18-OIC ACID Methanone, [1,4-dimethyl-7-(1-meth ylethyl)-2-azulanyl]phenyl- §§ 2-B enzylquaiasulane §§ (7-Isopropyl- 1,4-dimethyl-2-azulanyl)(phenyl)me thanone #			
58	36.972	0.35	D:\DATABASE\DEMO.L 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,8,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, [1R-(1. alpha.,4a.beta.,10a.alpha.)]- §§ P odocarpa-8,11,13-trien-15-oic acid , 13-isopropyl- §§ Abiata-8,11,13- trien-18-oic acid §§ Abietic acid, dehydro- 503093 001740-19-8 95 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,8,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, [1R-(1. alpha.,4a.beta.,10a.alpha.)]- §§ P odocarpa-8,11,13-trien-15-oic acid , 13-isopropyl- §§ Abiata-8,11,13- trien-18-oic acid §§ Abietic acid, dehydro- 503110 001740-19-8 95 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,8,10,10A-OCTAHYDRO-1,4A-DI METHYL-7-(1-METHYLETHYL)-, [1R-(1. ALPHA.,4A.BETA.,10A.ALPHA.)]- §§ (-)-DEHYDROABIETIC ACID §§ 1,2,3,4, 4A,8,10,10A-OCTAHYDRO-1,4A-DIMETHY L-7-(1-METHYLETHYL)-1-PHENANTHRENE CARBOXYLIC ACID			
59	37.032	0.67	D:\DATABASE\DEMO.L 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,8,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, [1R-(1. alpha.,4a.beta.,10a.alpha.)]- §§ P odocarpa-8,11,13-trien-15-oic acid , 13-isopropyl- §§ Abiata-8,11,13- trien-18-oic acid §§ Abietic acid, dehydro- 503093 001740-19-8 60 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,8,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, [1R-(1. alpha.,4a.beta.,10a.alpha.)]- §§ P odocarpa-8,11,13-trien-15-oic acid , 13-isopropyl- §§ Abiata-8,11,13-			

Data Path : F:\MSDCHEM\MSDCHEM\
 Data File : WIM-10pssan-160c-4jm.D
 Acq On : 12 Oct 2019 11:41
 Operator :
 Sample :
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			trian-18-oic acid §§ Abietic acid, dehydro-			
			1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,5,10,10A-OCTAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, [1R-(1.alpha.,4A.beta.,10A.alpha.)]- §§ (-)-DEHYDROABIETIC ACID §§ 1,2,3,4,4A,5,10,10A-OCTAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-1-PHENANTHRENE CARBOXYLIC ACID	503110	001740-19-8	60
60	37.237	0.69	D:\DATABASE\DEMO.L			
			ABIETA-7,13-DIEN-18-OIC ACID §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO- §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, [1R-(1.alpha.,4A.beta.,4B.alpha.,10A.alpha.)]-	168419	000514-10-3	87
			18-2,10A-ETHANOPHENANTHRENE, KAUR-16-EN-18-OIC ACID DERIV. §§ KAUR-16-EN-18-OIC ACID §§ KAUR-16-EN-18-OIC ACID, (4.alpha.)- §§ (-)-ENT-KAUR-16-EN-18-OIC ACID	513651	006730-83-2	64
			Abietic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-18-oic acid, 13-isopropyl- §§ L-abietic acid	513344	000514-10-3	64
61	37.464	0.14	D:\DATABASE\DEMO.L			
			ABIETA-7,13-DIEN-18-OIC ACID §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO- §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, [1R-(1.alpha.,4A.beta.,4B.alpha.,10A.alpha.)]-	168420	000514-10-3	89
			18-2,10A-ETHANOPHENANTHRENE, KAUR-16-EN-18-OIC ACID DERIV. §§ KAUR-16-EN-18-OIC ACID §§ KAUR-16-EN-18-OIC ACID, (4.alpha.)- §§ (-)-ENT-KAUR-16-EN-18-OIC ACID	513651	006730-83-2	64
			ABIETA-7,13-DIEN-18-OIC ACID §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO- §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, [1R-(1.alpha.,4A.beta.,4B.alpha.,10A.alpha.)]-	168419	000514-10-3	60
62	37.685	2.34	D:\DATABASE\DEMO.L			
			Abietic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,	513378	000514-10-3	99

Data Path : F:\DATA MS\data\
 Data File : WLM-10pssan-160c-4jm.D
 Acq On : 12 Oct 2019 11:41
 Operator :
 Sample :
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			10a-Decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- 66 Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- 66 L-abiatic acid			
			Abiatic acid 66 1-Phenanthrenecarb oxylie acid, 1,2,3,4,4a,4b,5,6,10, 10a-Decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- 66 Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- 66 L-abiatic acid	513344	000514-10-3	94
			Abiatic acid 66 1-Phenanthrenecarb oxylie acid, 1,2,3,4,4a,4b,5,6,10, 10a-Decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- 66 Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- 66 L-abiatic acid	513347	000514-10-3	93
63	38.506	0.12	D:\DATABASE\DEMO.L Abiatic acid 66 1-Phenanthrenecarb oxylie acid, 1,2,3,4,4a,4b,5,6,10, 10a-Decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- 66 Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- 66 L-abiatic acid	513378	000514-10-3	92
			Abiatic acid 66 1-Phenanthrenecarb oxylie acid, 1,2,3,4,4a,4b,5,6,10, 10a-Decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- 66 Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- 66 L-abiatic acid	513347	000514-10-3	78
			.beta.-Pimaric acid 66 .delta.6,8(14)-Abietadienoic acid 66 1-Pimari c acid 66 1-Sapietic acid	513374	000079-54-9	76
64	38.755	0.04	D:\DATABASE\DEMO.L Abiatic acid 66 1-Phenanthrenecarb oxylie acid, 1,2,3,4,4a,4b,5,6,10, 10a-Decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- 66 Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- 66 L-abiatic acid	513378	000514-10-3	90
			Abiatic acid 66 1-Phenanthrenecarb oxylie acid, 1,2,3,4,4a,4b,5,6,10, 10a-Decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- 66 Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- 66 L-abiatic acid	513347	000514-10-3	64
			1R-2,10A-ETHANOPHENANTHRENE, KAUR- 16-EN-18-OIC ACID DERIV. 66 KAUR-1 6-EN-18-OIC ACID 66 KAUR-16-EN-18- OIC ACID, (4.ALPHA.)- 66 (-)-ENT-K AUR-16-EN-19-OIC ACID	513651	006730-83-2	60

Data Path : F:\DATA MS\data\
 Data File : WLM-10pmsen-160c-4jm.D
 Acq On : 12 Oct 2019 11:41
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 Sample :
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

#	RT	Area%	Library/ID	Ref#	CAS#	Qual
5	38.831	0.14	D:\DATABASE\DEMO.L Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid 1,4-BENZENEDICARBOXYLIC ACID, DIET HYL ESTER §§ DIETHYL ESTER OF 1,4- BENZENEDICARBOXYLIC ACID §§ DIETHY L P-PHTHALATE §§ DIETHYL TEREPHTHA LATE Naphthalene, 1,2,3,4-tetrahydro-6- nitro- §§ 6-Nitrotetralin §§ 6-Nit ro-1,2,3,4-tetrahydronaphthalene #	513344	000514-10-3	53
				380622	000636-09-9	38
				380125	019353-86-7	25
6	39.014	0.19	D:\DATABASE\DEMO.L Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid CYCLOTETRADECA(B)FURAN-7(4H)-ONE, 2,5,6,8,9,12,13,15a-OCTAHYDRO-3,6, 10,14-TETRAMETHYL- §§ (3E,10E,14E) -6,7-EPOXY-3,6,10,14-TETRAMETHYL-2 ,4,5,6,7,8,9,12,13,15a-DECAHYDROCY CLOTETRADECA (B) FURAN	513347	000514-10-3	50
				513378	000514-10-3	44
				294174	070701-53-0	25

Data Path : F:\DATA MS\daa\
 Data File : WLM-10p-rsaa-180c-1jm.D
 Acq On : 10 Oct 2019 12:12
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 Sample :
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

#	RT	Area%	Library/ID	Ref#	CAS#	Qual
1	1.962	4.47	D:\DATABASE\DEMO.L Methyl Alcohol §§ Methanol §§ Carb inol §§ Methyl hydroxide METHANOL §§ HYDROXYMETHANE §§ ALCO HOL, METHYL §§ ALCOOL METHYLIGUE Methyl Alcohol §§ Methanol §§ Carb inol §§ Methyl hydroxide	3073	000067-56-1	2
2	2.135	0.13	D:\DATABASE\DEMO.L Pentane, 2,4-dimethyl- §§ 2,4-Dime thylpentane PENTANE, 2,4-DIMETHYL- §§ 2,4-DIME THYLPENTANE §§ PENTANE, 2,4-DIMETH YL PENTANE, 2,4-DIMETHYL- §§ 2,4-DIME THYLPENTANE §§ PENTANE, 2,4-DIMETH YL	18750	000108-08-7	87
3	2.205	11.57	D:\DATABASE\DEMO.L Hexane, 3-methyl- §§ 2-Ethylpentan e §§ 3-Methylhexane HEXANE, 3-METHYL- §§ 3-METHYLHEXAN E §§ 2-ETHYLPENTANE §§ HEXANE, 3-M ETHYL PENTANE, 2,3-DIMETHYL- §§ 2,3-DIME THYLPENTANE §§ 3, 4-DIMETHYLPENTAN E §§ 3,4-DIMETHYLPENTANE	18811	000589-34-4	83
4	2.243	4.47	D:\DATABASE\DEMO.L 1,3-DIMETHYLCYCLOPENTANE §§ CYCLOP ENTANE, 1,3-DIMETHYL-, CIS- §§ 1,3 -DIMETHYLCYCLOPENTANE (CIS) §§ 1,3 -DIMETHYLCYCLOPENTANE CIS Cyclopentane, 1,3-dimethyl-, cis- §§ cis-1,3-Dimethylcyclopentane §§ 1,3-Dimethylcyclopentane cis §§ 1 ,3-Dimethylcyclopentane # Cyclopentane, 1,3-dimethyl- §§ 1,3 -Dimethylcyclopentane	62286	002532-58-3	91
5	2.334	6.89	D:\DATABASE\DEMO.L CYCLOHEXANE, METHYL- §§ METHYLCYCL CHEXANE §§ 1-METHYLCYCLOHEXANE §§ CYCLOHEXANE, METHYL CYCLOHEXANE, METHYL- §§ METHYLCYCL CHEXANE §§ 1-METHYLCYCLOHEXANE §§ CYCLOHEXANE, METHYL Cyclohexane, methyl- §§ Cyclohexyl methane §§ Hexahydrotoluene §§ Met hylcyclohexane	141469	000108-87-2	96
6	2.421	68.41	D:\DATABASE\DEMO.L Toluene §§ Benzene, methyl §§ Meth acide §§ Methylbenzene BENZENE, METHYL- §§ METHYLBENZENE §§ TOLUENE §§ ANTISAL 1A BENZENE, METHYL- §§ METHYLBENZENE §§ TOLUENE §§ ANTISAL 1A	158580	000108-88-3	91

Data Path : F:\DATA MS\022\
 Data File : WLM-10p-ssn-180c-1jm.D
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 Sample :
 disc :
 ALS Vial : 3 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

#	RT	Area%	Library/ID	Ref#	CAS#	Qual
7	2.745	0.88	D:\DATABASE\DEMO.L CYCLOHEXANE, ETHYL- §§ ETHYLCYCLOH EXANE §§ ETHYL CYCLOHEXANE §§ ETHY LCYCLOHEXAN ETHYLCYCLOHEXANE §§ ETHYLCYCLOHEXA CYCLOHEXANE, ETHYL- §§ ETHYLCYCLOH EXANE §§ ETHYL CYCLOHEXANE §§ ETHY LCYCLOHEXAN	54538	001678-91-7	70
				54425	001678-91-7	70
				141358	001678-91-7	70
8	34.541	0.13	D:\DATABASE\DEMO.L Pentacyclo[7.5.0.0(2,8).0(5,14).0(7,11)]tetradecane PENTACYCLO[7.5.0.0(2,8).0(5,14).0(7,11)]TETRADECANE Phenanthrene, 7-ethenyl-1,2,3,4,4a ,5,6,7,8,9,10,10a-dodecahydro-1,1, 4a,7-tetramethyl- §§ Pinaca-8,13-d iene #	132851	079772-15-9	48
				132860	079772-15-9	48
				481092	055255-56-6	30
9	35.465	0.09	D:\DATABASE\DEMO.L Pinacic acid §§ 1-Phenanthrenecarb oxylic acid, 7-ethenyl-1,2,3,4,4a, 4b,5,6,7,8,9,10,10a-dodecahydro-1,4a ,7-trimethyl-, [1R-(1.alpha.,4a.be ta.,4b.alpha.,7.beta.,10a.alpha.)] - §§ Podocarp-8(14)-en-15-oic acid , 13.alpha.-methyl-13-vinyl- §§ D- pinacic acid KAUR-16-EN-18-OIC ACID §§ KAUR-16- EN-18-OIC ACID, (4.BETA.)- §§ (-)- KAURMENOIC ACID §§ (4-BETA)-KAUR-1 6-EN-18-OIC ACID Chromium, carbonyl-(.eta.-4-1,3-bu tadiene)(.eta.-5-pentamethylcyclop entadienyl)-	466434	000127-27-5	64
				168418	020316-84-1	46
				398828	999398-83-2	38
10	35.756	0.06	D:\DATABASE\DEMO.L DEHYDROABIETIC ACID 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,8,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, methyl ester, [1R-(1.alpha.,4a.beta.,10a. alpha.)]- §§ Podocarpa-8,11,13-tri en-15-oic acid, 13-isopropyl-, met hyl ester §§ Methyl dehydroabietat METHYL ABIETA-8,11,13-TRIEN-18-OAT E §§ 1-PHENANTHRENECARBOXYLIC ACID , 1,2,3,4,4A,8,10,10A-OCTAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, ME THYL ESTER, [1R-(1.ALPHA.,4A.BETA. ,10A.ALPHA.)]- §§ DEHYDROABIETIC A CID METHYL ESTER §§ METHYL DEHYDRO ABIETATE	464356	000000-00-0	97
				464338	001235-74-1	95
				464350	001235-74-1	95
11	36.091	0.14	D:\DATABASE\DEMO.L INDOLIZINO[1,2-B]QUINOLIN-9(11H)-O NE, 8-[(FORMYLOXY)METHYL]-7-(1-OXO PROPYL)- §§ 8-FORMYLOXYMETHYL-7-(1 -OXOPROPYL)INDOLIZINO[1,2-B]QUINOL	504762	054318-62-6	93

Data Path : F:\DATA MS\data\
 Data File : WLM-10p-scan-180c-1jm.D
 Acq On : 10 Oct 2019 12:12
 Operator :
 Sample :
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

k#	RT	Area#	Library/ID	Ref#	CAS#	Qual
			IN-9(11H)-ONE PIMARA-8(14),13-DIEN-18-OIC ACID § § 1-PHENANTHRENECARBOXYLIC ACID, 7 -ETHENYL-1,2,3,4,4A,4B,5,6,7,9,10, 10A-DOCECAHYDRO-1,4A,7-TRIMETHYL-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA., 7.BETA.,10A.ALPHA.)]- § § (+)-PIMAR IC ACID § § .ALPHA.-PIMARIC ACID Xanthen-9-one, 1-Hydroxy-3,5,8-tri methoxy- § § 5,8-Dimethylbellidifol in § § 1-Hydroxy-3,5,8-trimethoxyxa nthan-9-one § § 1-Hydroxy-3,5,8-tri methoxy-9H-xanthen-9-one #	504608	000127-27-5	80
12	36.383	0.06	D:\DATABASE\DEMO.L METHYL ABIETA-7,13-DIEN-18-OATE § § 1-PHENANTHRENECARBOXYLIC ACID, 1, 2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1 ,4A-DIMETHYL-7-(1-METHYLETHYL)-, M ETHYL ESTER, [1R-(1.ALPHA.,4A.BETA .,4B.ALPHA.,10A.ALPHA.)]- § § ABALY N § § ABIETIC ACID METHYL ESTER METHYL ABIETA-7,13-DIEN-18-OATE § § 1-PHENANTHRENECARBOXYLIC ACID, 1, 2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1 ,4A-DIMETHYL-7-(1-METHYLETHYL)-, M ETHYL ESTER, [1R-(1.ALPHA.,4A.BETA .,4B.ALPHA.,10A.ALPHA.)]- § § ABALY N § § ABIETIC ACID METHYL ESTER Methyl abietate § § 1-Phenanthreneac arboxylic acid, 1,2,3,4,4a,4b,5,6, 10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, methyl ester, [1R -(1.alpha.,4a.beta.,4b.alpha.,10a. alpha.)]- § § Podocarpa-7,13-dien-1 5-oic acid, 13-isopropyl-, methyl ester § § Abalyn	480551	000127-25-3	99
			METHYL ABIETA-7,13-DIEN-18-OATE § § 1-PHENANTHRENECARBOXYLIC ACID, 1, 2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1 ,4A-DIMETHYL-7-(1-METHYLETHYL)-, M ETHYL ESTER, [1R-(1.ALPHA.,4A.BETA .,4B.ALPHA.,10A.ALPHA.)]- § § ABALY N § § ABIETIC ACID METHYL ESTER METHYL ABIETA-7,13-DIEN-18-OATE § § 1-PHENANTHRENECARBOXYLIC ACID, 1, 2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1 ,4A-DIMETHYL-7-(1-METHYLETHYL)-, M ETHYL ESTER, [1R-(1.ALPHA.,4A.BETA .,4B.ALPHA.,10A.ALPHA.)]- § § ABALY N § § ABIETIC ACID METHYL ESTER Methyl abietate § § 1-Phenanthreneac arboxylic acid, 1,2,3,4,4a,4b,5,6, 10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, methyl ester, [1R -(1.alpha.,4a.beta.,4b.alpha.,10a. alpha.)]- § § Podocarpa-7,13-dien-1 5-oic acid, 13-isopropyl-, methyl ester § § Abalyn	258918	000127-25-3	96
			Methyl abietate § § 1-Phenanthreneac arboxylic acid, 1,2,3,4,4a,4b,5,6, 10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, methyl ester, [1R -(1.alpha.,4a.beta.,4b.alpha.,10a. alpha.)]- § § Podocarpa-7,13-dien-1 5-oic acid, 13-isopropyl-, methyl ester § § Abalyn	258889	000127-25-3	96
13	36.594	0.45	D:\DATABASE\DEMO.L KAUR-16-EN-18-OIC ACID § § KAUR-16- EN-18-OIC ACID, (4.BETA.)- § § (-)- KAUFMENOIC ACID § § (4-BETA)-KAUR-1 6-EN-18-OIC ACID Phenol, 2,4-bis(1-phenylethyl)- § § 2,4-Bis(1-phenylethyl)phenol # 4-Androstan-6.beta.-ol-3,17-dione	168418	020316-84-1	87
			Phenol, 2,4-bis(1-phenylethyl)- § § 2,4-Bis(1-phenylethyl)phenol # 4-Androstan-6.beta.-ol-3,17-dione	504578	002769-94-0	86
			4-Androstan-6.beta.-ol-3,17-dione	513437	999513-45-0	80
14	36.945	0.22	D:\DATABASE\DEMO.L 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, [1R-(1. alpha.,4a.beta.,10a.alpha.)]- § § P odocarpa-8,11,13-trien-15-oic acid , 13-isopropyl- § § Abiata-8,11,13- trien-18-oic acid § § Abietic acid, dehydro- 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,9,10,10A-OCTAHYDRO-1,4A-DI METHYL-7-(1-METHYLETHYL)-, [1R-(1.	503093	001740-19-8	83
			1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, [1R-(1. alpha.,4a.beta.,10a.alpha.)]- § § P odocarpa-8,11,13-trien-15-oic acid , 13-isopropyl- § § Abiata-8,11,13- trien-18-oic acid § § Abietic acid, dehydro- 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,9,10,10A-OCTAHYDRO-1,4A-DI METHYL-7-(1-METHYLETHYL)-, [1R-(1.	503110	001740-19-8	83

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 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			ALPHA.,4A.BETA.,10A.ALPHA.]]- 55 (-)-DEHYDROABIETIC ACID 55 1,2,3,4,4A,9,10,10A-OCTAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-1-PHENANTHRENE CARBOXYLIC ACID			
			1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,10a.alpha.)]- 55 Podocarpa-8,11,13-trien-15-oic acid, 13-isopropyl- 55 Abieta-8,11,13-trien-18-oic acid 55 Abietic acid, dehydro-	503082	001740-19-8	59
15	37.150	0.00	D:\DATABASE\DEMO.L			
			ABIETA-8,11,13-TRIEN-18-OIC ACID 5 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,9,10,10A-OCTAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, [1S-(1.ALPHA.,4A.ALPHA.,10A.BETA.)]- 55 13-ISOPROPYLPODOCARPA-8,11,13-TRIEN-16-OIC ACID 55 4-EPIABIETIC ACID, DEHYDRO-	503112	005155-70-4	91
			1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1S-(1.alpha.,4a.alpha.,10a.beta.)]- 55 Podocarpa-8,11,13-trien-16-oic acid, 13-isopropyl- 55 Callitrisic acid 55 4-Epiabietic acid, dehydro-	503094	005155-70-4	91
			ABIETA-7,13-DIEN-18-OIC ACID 55 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO- 55 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A.ALPHA.)]-	168419	000514-10-3	83
16	37.220	0.00	D:\DATABASE\DEMO.L			
			ABIETA-7,13-DIEN-18-OIC ACID 55 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO- 55 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A.ALPHA.)]-	168420	000514-10-3	78
			Abietic acid 55 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- 55 Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- 55 L-abietic acid	513378	000514-10-3	60
			Falustric acid 55 Podocarpa-8,13-dien-15-oic acid, 13-isopropyl- 55 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,5,6,9,10,10a-decahydro-1,4	513439	001945-53-5	58

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsen-180c-1jm.D
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Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			a-dimethyl-7-(1-methylethyl)-, (1R -(1.alpha.,4a.beta.,10a.alpha.))- §§ 8,13-Abietadien-18-oic acid			
7	37.690	2.05	D:\DATABASE\DEMO.L Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo caspa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid	513378	000514-10-3	99
			Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo caspa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid	513344	000514-10-3	96
			Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo caspa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid	513347	000514-10-3	90

ata Path : F:\DATA MS\daa\
 ata File : WLM-10pssan-180c-2jm.D
 acq On : 12 Oct 2019 8:00
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 Sample :
 Inj :
 LS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

RT	Area%	Library/ID	Ref#	CAS#	Qual
1.962	6.63	D:\DATABASE\DEMO.L			
		Methyl Alcohol \$\$ Methanol \$\$ Carb	5073	000067-56-1	2
		inol \$\$ Methyl hydroxide			
		METHANOL \$\$ HYDROXYMETHANE \$\$ ALCO	5075	000067-56-1	2
		HOL, METHYL \$\$ ALCOOL METHYLIQUE			
		Methyl Alcohol \$\$ Methanol \$\$ Carb	5072	000067-56-1	2
		inol \$\$ Methyl hydroxide			
2.070	0.02	D:\DATABASE\DEMO.L			
		Decyl trifluoroacetate \$\$ Decyl 2,	32006	000333-88-0	42
		2,2-trifluoroacetate \$\$ 1-Decanol,			
		trifluoroacetate \$\$ Acetic acid,			
		trifluoro-, decyl ester			
		2-BUTANOL \$\$ 2-HYDROXYBUTANE \$\$ BU	5194	000078-92-2	38
		TAN-2-OL \$\$ (1)-BUTAN-2-OL			
		2-ETHOXYETHANOL \$\$ ETHYLGLYCOL	5272	999005-27-3	33
2.135	0.18	D:\DATABASE\DEMO.L			
		Pentane, 2,4-dimethyl- \$\$ 2,4-Dime	18753	000108-08-7	91
		thylpentane			
		Pentane, 2,4-dimethyl- \$\$ 2,4-Dime	18750	000108-08-7	87
		thylpentane			
		PENTANE, 2,4-DIMETHYL- \$\$ 2,4-DIME	19001	000108-08-7	83
		THYLPENTANE \$\$ PENTANE, 2,4-DIMETH			
		YL			
2.200	12.59	D:\DATABASE\DEMO.L			
		HEXANE, 3-METHYL- \$\$ 3-METHYLHEXAN	18994	000589-34-4	64
		E \$\$ 2-ETHYLPENTANE \$\$ HEXANE, 3-M			
		ETHYL			
		Hexane, 3-methyl- \$\$ 2-Ethylpentan	18743	000589-34-4	62
		e \$\$ 3-Methylhexane			
		HEPTANE \$\$ ALIPHATIC HYDROCARBON \$	18986	000142-82-5	58
		\$ DIPROPYL METHANE \$\$ DIPROPYLMETH			
		ANE			
2.243	4.83	D:\DATABASE\DEMO.L			
		Cyclopentane, 1,3-dimethyl- \$\$ 1,3	101343	002453-00-1	91
		-Dimethylcyclopentane			
		1,3-DIMETHYLCYCLOPENTANE \$\$ CYCLOP	62286	002532-58-3	91
		ENTANE, 1,3-DIMETHYL-, CIS- \$\$ 1,3			
		-DIMETHYLCYCLOPENTANE (CIS) \$\$ 1,3			
		-DIMETHYLCYCLOPENTANE CIS			
		Cyclopentane, 1,3-dimethyl-, cis-	62231	002532-58-3	91
		\$\$ cis-1,3-Dimethylcyclopentane \$\$			
		1,3-Dimethylcyclopentane cis \$\$ 1,			
		3-Dimethylcyclopentane #			
2.335	7.14	D:\DATABASE\DEMO.L			
		CYCLOHEXANE, METHYL- \$\$ METHYLCYCL	141469	000108-87-2	96
		HEXANE \$\$ 1-METHYLCYCLOHEXANE \$\$			
		CYCLOHEXANE, METHYL			
		CYCLOHEXANE, METHYL- \$\$ METHYLCYCL	141467	000108-87-2	95
		HEXANE \$\$ 1-METHYLCYCLOHEXANE \$\$			
		CYCLOHEXANE, METHYL			
		CYCLOHEXANE, METHYL- \$\$ METHYLCYCL	141470	000108-87-2	95
		HEXANE \$\$ 1-METHYLCYCLOHEXANE \$\$			
		CYCLOHEXANE, METHYL			

Data Path : F:\DATA MS\daa\
 Data File : WLM-10pssan-180c-2jm.D
 Acq On : 12 Oct 2019 8:00
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 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

#	RT	Area%	Library/ID	Ref#	CAS#	Qual
7	2.421	58.68	D:\DATABASE\DEMO.L Toluene §§ Benzene, methyl §§ Meth acide §§ Methylbenzene BENZENE, METHYL- §§ METHYLBENZENE §§ TOLUENE §§ ANTISAL 1A BENZENE, METHYL- §§ METHYLBENZENE §§ TOLUENE §§ ANTISAL 1A	158580 158625 158622	000108-88-3 000108-88-3 000108-88-3	91 90 87
8	2.745	1.07	D:\DATABASE\DEMO.L Cyclohexane, ethyl- §§ Ethylcyclohexane CYCLOHEXANE, ETHYL- §§ ETHYLCYCLOHEXANE EKANE §§ ETHYL CYCLOHEXANE §§ ETHYLCYCLOHEXAN CYCLOHEXANE, ETHYL- §§ ETHYLCYCLOHEXANE EKANE §§ ETHYL CYCLOHEXANE §§ ETHYLCYCLOHEXAN	141508 141562 141528	001678-91-7 001678-91-7 001678-91-7	93 81 81
9	2.859	0.51	D:\DATABASE\DEMO.L 1,3,5-Cycloheptatriene §§ Troopilid ene §§ Cyclohepta-1,3,5-triene §§ Cycloheptatriene 1,3,5-CYCLOHEPTATRIENE §§ CYCLOHEP TA-1,3,5-TRIENE §§ CYCLOHEPTATRIEN E §§ CYCLOHEPTATRIENE [UN2603] [FL AMMABLE LIQUID] 1,3,5-CYCLOHEPTATRIENE §§ CYCLOHEP TA-1,3,5-TRIENE §§ CYCLOHEPTATRIEN E §§ CYCLOHEPTATRIENE [UN2603] [FL AMMABLE LIQUID]	158600 158637 158604	000544-25-2 000544-25-2 000544-25-2	87 83 80
10	17.304	0.03	D:\DATABASE\DEMO.L 2H-2,4a-Methanonaphthalene, 1,3,4, 5,6,7-hexahydro-1,1,3,5-tetramethy l-, (2S)- §§ 2H-2,4a-Methanonaphth alene, 1,3,4,5,6,7-hexahydro-1,1,3, 5-tetramethyl-, (2S,4aR)-(-)- §§ Isolongifolene §§ (-)-Isolongifoli ne 2H-2,4A-METHANONAPHTHALENE, 1,3,4, 5,6,7-HEXAHYDRO-1,1,3,5-TETRAMETHY L-, (2S)- §§ (-)-ISOLONGIFOLENE §§ (-)-ISOLONGIFOLINE §§ (2S)-1,3,4, 5,6,7-HEXAHYDRO-1,1,3,5-TETRAMETHY L-2H-2,4A-METHANONAPHTHALENE 2H-2,4A-METHANONAPHTHALENE, 1,3,4, 5,6,7-HEXAHYDRO-1,1,3,5-TETRAMETHY L-, (2S)- §§ (-)-ISOLONGIFOLENE §§ (-)-ISOLONGIFOLINE §§ (2S)-1,3,4, 5,6,7-HEXAHYDRO-1,1,3,5-TETRAMETHY L-2H-2,4A-METHANONAPHTHALENE	350641 350804 350805	001135-66-6 001135-66-6 001135-66-6	98 97 96
11	17.693	0.01	D:\DATABASE\DEMO.L 2-METHOXY-4-(METHOXYMETHYL)-6-METH YLNICOTINONITRILE §§ PYRIDINE-3-CAR BONITRILE, 2,4-DIMETHOXY-6-METHYL 3-(3-OXO-3H-BENZO[F]CHROMEN-2-YL)- 2,4-(1H,3H)-QUINOLINEDIONE §§ 4-HYD ROXY-3-(2-OXO-2H-1-OXA-3-PHENANTHR	7347 7476	063644-84-8 999007-47-7	12 9

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 Sample :
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Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

k#	RT	Area#	Library/ID	Ref#	CAS#	Qual
			YL)-2(1H)-QUINOLINONE 2,2,3,3,4,4,5,5-OCTAFLUORO-N-(3-METHOXYPHENYL)PENTANAMIDE §§ PENTANAMIDE, 2,2,3,3,4,4,5,5-OCTAFLUORO-N-(3-METHOXYPHENYL)-	7474	339166-43-7	9
12	28.599	0.00	D:\DATABASE\DEMO.L 4-(METHOXYMETHYL)-6-METHYL-2-PHENOXYNICOTINONITRILE §§ PYRIDINE-3-CARBONITRILE, 4-METHOXYMETHYL-6-METHYL-2-PHENOXY-1-DODECANAMINE §§ Dodecylamine §§ n-Dodecylamine §§ Alanine 4 1-DODECANAMINE §§ 1-AMINODODECANE §§ 1-DODECYLAMINE §§ ALANINE 4	7413	332057-36-0	38
			4-(METHOXYMETHYL)-6-METHYL-2-PHENOXYNICOTINONITRILE §§ PYRIDINE-3-CARBONITRILE, 4-METHOXYMETHYL-6-METHYL-2-PHENOXY-2-METHOXY-4-(METHOXYMETHYL)-6-METHOXYNICOTINONITRILE §§ PYRIDINE-3-CARBONITRILE, 2,4-DIMETHOXY-6-METHYL-4-BROMO-N-[(6-METHYL-2-PYRIDYL)AMINOMETHYL]PHTHALIMIDE §§ 5-BROMO-2-[[[6-METHYL-2-PYRIDINYL)AMINO]METHYL]-1H-ISOINDOLE-1,3(2H)-DIONE	7347	063644-84-8	12
			4-(METHOXYMETHYL)-6-METHYL-2-PHENOXYNICOTINONITRILE §§ PYRIDINE-3-CARBONITRILE, 4-METHOXYMETHYL-6-METHYL-2-PHENOXY-2-METHOXY-4-(METHOXYMETHYL)-6-METHOXYNICOTINONITRILE §§ PYRIDINE-3-CARBONITRILE, 2,4-DIMETHOXY-6-METHYL-4-BROMO-N-[(6-METHYL-2-PYRIDYL)AMINOMETHYL]PHTHALIMIDE §§ 5-BROMO-2-[[[6-METHYL-2-PYRIDINYL)AMINO]METHYL]-1H-ISOINDOLE-1,3(2H)-DIONE	7473	999007-47-4	12
14	30.301	0.03	D:\DATABASE\DEMO.L PIMARA-8,15-DIENE §§ PHENANTHRENE, 7-ETHENYL-1,2,3,4,4A,5,6,7,8,9,10,10A-DODECAHYDRO-1,1,4A,7-TETRAMETHYL- §§ 7.ALPHA.-ETHENYL-1,1,4A,7.BETA.-TETRAMETHYL-1,2,3,4,4A,5,6,7,8,9,10,10A-DODECAHYDROPHENANTHREN Phenanthrene, 7-ethenyl-1,2,3,4,4a,5,6,7,8,9,10,10a-dodecahydro-1,1,4a,7-tetramethyl- §§ Pimara-8,15-diene # 4H,8H-BENZO[1,2-B:3,4-B']DIPYRAN-4-ONE, 5-METHOXY-2,8,8-TRIMETHYL- §§ 5-METHOXY-2,8,8-TRIMETHYL-4H,8H-BENZO[1,2-B:3,4-B']DIPYRAN-4-ONE §§ 5-O-METHYLLALLOPTAEROXYLIN §§ ALL OPTAEROXYLIN METHYL ETHER	481165	055255-56-6	93
			4-(METHOXYMETHYL)-6-METHYL-2-PHENOXYNICOTINONITRILE §§ PYRIDINE-3-CARBONITRILE, 4-METHOXYMETHYL-6-METHYL-2-PHENOXY-4-BROMO-N-[(6-METHYL-2-PYRIDYL)AMINOMETHYL]PHTHALIMIDE §§ 5-BROMO-2-[[[6-METHYL-2-PYRIDINYL)AMINO]METHYL]-1H-ISOINDOLE-1,3(2H)-DIONE	7473	999007-47-4	9
			9-(4-HYDROXYPHENYL)-3,3,6,6-TETRAMETHYL-3,4,6,7,8A,9-HEXAHYDRO-1,8(2H,5H)-ACRIDINEDIONE	7482	999007-48-3	9

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 Inj :
 LS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

RT	Area%	Library/ID	Ref#	CAS#	Qual
31.252	0.01	D:\DATABASE\DEMO.L 4-(METHOXYMETHYL)-6-METHYL-2-PHENOXYNICOTINONITRILE §§ PYRIDINE-3-CARBONITRILE, 4-METHOXYMETHYL-6-METHYL-2-PHENOXY-Ethanedicarboxamide, N-allyl-N'-(2,5-dimethylphenyl)-	7413	332057-36-0	27
		1-DODECANAMINE §§ 1-AMINODODECANE §§ 1-DODECYLAMINE §§ ALAMINE 4	7392	331864-72-3	25
			4661	000124-22-1	12
31.273	0.00	D:\DATABASE\DEMO.L 4-(METHOXYMETHYL)-6-METHYL-2-PHENOXYNICOTINONITRILE §§ PYRIDINE-3-CARBONITRILE, 4-METHOXYMETHYL-6-METHYL-2-PHENOXY-1-DODECANAMINE §§ 1-AMINODODECANE §§ 1-DODECYLAMINE §§ ALAMINE 4	7413	332057-36-0	10
		1-Dodecanamine §§ Dodacylamina §§ n-Dodacylamina §§ Alanina 4	4661	000124-22-1	9
			4652	000124-22-1	9
31.700	0.02	D:\DATABASE\DEMO.L 6-ETHYL-2-METHYL-4,6-DIHYDRO-2H-[1,4]OXAZINO[3,2-C]QUINOLINE-3,5-DIONE §§ 6-ETHYL-2-METHYL-2H-1-OXA-4,6-PHENANTHROLINE-3,5(4H,6H)-DIONE §§ 6-ETHYL-2-METHYL-6,10B-DIHYDRO-2H-[1,4]OXAZINO[3,2-C]QUINOLINE-3,5-DIONE	7414	334023-40-4	27
		9-(4-HYDROXYPHENYL)-3,3,6,6-TETRAMETHYL-3,4,6,7,8A,9-HEXAHYDRO-1,8(2H,5H)-ACRIDINEDIONE	7482	999007-48-3	10
		1,3-OXATHIOL-1-IUM, 4-HYDROXY-2-[(1-METHYLETHYL)THIO]-5-(TRIFLUOROACETYL)-, HYDROXIDE, INNER SALT §§ 2-ISOPROPYLTHIO-5-TRIFLUOROACETYL-1,3-OXATHIOLIUM-4-CLAT	7423	096088-83-4	10
31.824	0.01	D:\DATABASE\DEMO.L Norfluoxetine §§ 3-Phenyl-3-[4-(trifluoromethyl)phenoxy]-1-propanamine #	4995	056161-73-0	1
31.986	0.01	D:\DATABASE\DEMO.L 4-(METHOXYMETHYL)-6-METHYL-2-PHENOXYNICOTINONITRILE §§ PYRIDINE-3-CARBONITRILE, 4-METHOXYMETHYL-6-METHYL-2-PHENOXY-4-BROMO-N-[(6-METHYL-2-PYRIDYL)AMINOMETHYL]PHthalimide §§ 5-BROMO-2-[[[(6-METHYL-2-PYRIDINYL)AMINO]METHYL]-1H-ISOINDOLE-1,3(2H)-DIONE	7413	332057-36-0	27
		2-METHOXY-4-(METHOXYMETHYL)-6-METHYLNICOTINONITRILE §§ PYRIDINE-3-CARBONITRILE, 2,4-DIMETHOXY-6-METHYL	7473	999007-47-4	16
			7347	063644-84-8	12
32.067	0.02	D:\DATABASE\DEMO.L 9-(4-HYDROXYPHENYL)-3,3,6,6-TETRAMETHYL-3,4,6,7,8A,9-HEXAHYDRO-1,8(2	7482	999007-48-3	25

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Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

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			H,5H)-ACRIDINEDIONE 6-ETHYL-2-METHYL-4,6-DIHYDRO-2H-[1,4]OXAZINO[3,2-C]QUINOLINE-3,5-DIONE §§ 6-ETHYL-2-METHYL-2H-1-OXA-4,6-PHENANTHROLINE-3,5(4H,6H)-DIONE §§ 6-ETHYL-2-METHYL-6,10B-DIHYDRO-2H-[1,4]OXAZINO[3,2-C]QUINOLINE-3,5-DIONE 4-(METHOXYMETHYL)-6-METHYL-2-PHENOXYNICOTINONITRILE §§ PYRIDINE-3-CARBONITRILE, 4-METHOXYMETHYL-6-METHYL-2-PHENOXY-	7414	334023-40-4	23
12	32.408	0.02	D:\DATABASE\DEMO.L 4-(METHOXYMETHYL)-6-METHYL-2-PHENOXYNICOTINONITRILE §§ PYRIDINE-3-CARBONITRILE, 4-METHOXYMETHYL-6-METHYL-2-PHENOXY- 1-Hexadecanamine §§ Hexadecylamine §§ n-Cetylamine §§ n-Hexadecylamine 2-METHOXY-4-(METHOXYMETHYL)-6-METHYLNICOTINONITRILE §§ PYRIDINE-3-CARBONITRILE, 2,4-DIMETHOXY-6-METHYL	7413	332057-36-0	22
			1-Hexadecanamine §§ Hexadecylamine §§ n-Cetylamine §§ n-Hexadecylamine 2-METHOXY-4-(METHOXYMETHYL)-6-METHYLNICOTINONITRILE §§ PYRIDINE-3-CARBONITRILE, 2,4-DIMETHOXY-6-METHYL	4902	000143-27-1	10
			2-METHOXY-4-(METHOXYMETHYL)-6-METHYLNICOTINONITRILE §§ PYRIDINE-3-CARBONITRILE, 2,4-DIMETHOXY-6-METHYL	7347	063644-84-8	10
13	32.743	0.01	D:\DATABASE\DEMO.L 4-(METHOXYMETHYL)-6-METHYL-2-PHENOXYNICOTINONITRILE §§ PYRIDINE-3-CARBONITRILE, 4-METHOXYMETHYL-6-METHYL-2-PHENOXY- 1-Heptadecanamine §§ Heptadecylamine §§ n-Heptadecylamine §§ Margarylamine 1,12-DODECANEDIAMINE §§ DODECANE-1,12-DIAMINE	7413	332057-36-0	10
			1-Heptadecanamine §§ Heptadecylamine §§ n-Heptadecylamine §§ Margarylamine 1,12-DODECANEDIAMINE §§ DODECANE-1,12-DIAMINE	4935	004200-95-7	9
			1,12-DODECANEDIAMINE §§ DODECANE-1,12-DIAMINE	4751	999004-75-2	9
14	32.975	0.01	D:\DATABASE\DEMO.L 9-(4-HYDROXYPHENYL)-3,3,6,6-TETRAETHYL-3,4,6,7,8A,9-HEXAHYDRO-1,8(2H,5H)-ACRIDINEDIONE 4-(METHOXYMETHYL)-6-METHYL-2-PHENOXYNICOTINONITRILE §§ PYRIDINE-3-CARBONITRILE, 4-METHOXYMETHYL-6-METHYL-2-PHENOXY- L-Alanine, N-glycyl- §§ Alanine, N-glycyl-, L- §§ Glycylalanine §§ Gly-ala	7482	999007-48-3	32
			4-(METHOXYMETHYL)-6-METHYL-2-PHENOXYNICOTINONITRILE §§ PYRIDINE-3-CARBONITRILE, 4-METHOXYMETHYL-6-METHYL-2-PHENOXY- L-Alanine, N-glycyl- §§ Alanine, N-glycyl-, L- §§ Glycylalanine §§ Gly-ala	7413	332057-36-0	30
			L-Alanine, N-glycyl- §§ Alanine, N-glycyl-, L- §§ Glycylalanine §§ Gly-ala	4366	003695-73-6	22
15	33.493	0.11	D:\DATABASE\DEMO.L PHENANTHRENE, 7-ETHENYL-1,2,3,4,4A,5,6,7,8,9,10,10A-DODECAHYDRO-1,1,4A,7-TETRAMETHYL-, [4AS-(4A.ALPHA.,7.ALPHA.,10A.BETA.)]- §§ PINGARA-8(9),15-DIENE §§ PODOCARE-8-ENE, 13.ALPHA.-METHYL-13-VINYLA KAURA-5,16-DIEN-18-OL §§ KAURA-5,16-DIEN-18(OR 19)-OL §§ KAURA-5,16-DIEN-19-OL Kaurs-5,16-dien-18(or 19)-ol §§ Ka	481161	018319-61-4	84
			PHENANTHRENE, 7-ETHENYL-1,2,3,4,4A,5,6,7,8,9,10,10A-DODECAHYDRO-1,1,4A,7-TETRAMETHYL-, [4AS-(4A.ALPHA.,7.ALPHA.,10A.BETA.)]- §§ PINGARA-8(9),15-DIENE §§ PODOCARE-8-ENE, 13.ALPHA.-METHYL-13-VINYLA KAURA-5,16-DIEN-18-OL §§ KAURA-5,16-DIEN-18(OR 19)-OL §§ KAURA-5,16-DIEN-19-OL Kaurs-5,16-dien-18(or 19)-ol §§ Ka	492904	023837-99-2	80
			KAURA-5,16-DIEN-18-OL §§ KAURA-5,16-DIEN-18(OR 19)-OL §§ KAURA-5,16-DIEN-19-OL Kaurs-5,16-dien-18(or 19)-ol §§ Ka	492860	023837-99-2	56

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Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

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			usa-5,16-dien-18-ol #			
16	33.677	0.01	D:\DATABASE\DEMO.L 4-(METHOXYMETHYL)-6-METHYL-2-PHENO XYNICOTINONITRILE §§ PYRIDINE-3-CAR BONITRILE, 4-METHOXYMETHYL-6-METH YL-2-PHENOLY- 1-DODECANAMINE §§ 1-AMINODODECANE §§ 1-DODECYLAMINE §§ ALAMINE 4 1-Dodecanamine §§ Dodacylamina §§ n-Dodacylamina §§ Alanina 4	7413	332057-36-0	22
17	33.731	0.00	D:\DATABASE\DEMO.L 1-Hexadecanamina §§ Hexadacylamina §§ n-Cetylamina §§ n-Hexadacylami na 1-DODECANAMINE §§ 1-AMINODODECANE §§ 1-DODECYLAMINE §§ ALAMINE 4 1-Dodecanamina §§ Dodacylamina §§ n-Dodacylamina §§ Alanina 4	4902	000143-27-1	25
18	33.785	0.02	D:\DATABASE\DEMO.L Ethyl 2-((diethoxyphosphoryl)oxy)- 3,3,3-trifluoropropionate 3H-[1]BENZOTHIENO[3,2-D]AZONINE-3- CARBONITRILE, 1,2,4,5,6,7-HEXAHYDR O-7-METHOXY- §§ 7-METHOXY-2,3,4,5, 6,7-HEXAHYDRO-1H-[L]BENZOTHIENO[3, 2-D]AZONINE-3-CARBONITRILE	3375	999003-37-6	9
				7435	099559-20-8	6
19	33.855	0.05	D:\DATABASE\DEMO.L 1-Methyl-10,18-bisnorabieta-8,11,1 3-triene 10,13-DIMETHYL-4,5,6,7,8,9,10,11,1 2,13,14,15-DODECAHYDRO-1H-CYCLOPEN TA[A]PHENANTHRENE §§ ANDROSTA-2,16 -DIENE a-Indacen-1(2H)-one, 3,5,6,7-tetra hydro-3,3,4,5,5,8-hexamethyl- §§ 3, 3,4,5,5,8-Hexamethyl-3,5,6,7-tetra hydro-8-indacen-1(2H)-one #	466158	999466-16-6	94
				466180	999466-18-8	93
				466171	038754-94-8	89
30	34.131	0.02	D:\DATABASE\DEMO.L 2,2,3,3,4,4,5,5-OCTAFLUORO-N-(3-ME THOXYPHENYL)PENTANAMIDE §§ PENTANA MIDE, 2,2,3,3,4,4,5,5-OCTAFLUORO-N -(3-METHOXYPHENYL)-	7474	339166-43-7	9
31	34.190	0.02	D:\DATABASE\DEMO.L N-(1-ETHYLPROPYL)-3,4-DIMETHYL-2,6 -DINITROANILINE §§ BENZENAMINE, N- (1-ETHYLPROPYL)-3,4-DIMETHYL-2,6-D INITRO- §§ 3,4-DIMETHYL-2,6-DINITR O-N-(1-ETHYLPROPYL)ANILINE §§ 3,4- XYLIDINE, 2,6-DINITRO-N-(1-ETHYLPR OPYL)- Ethanedicarboxamide, N-allyl-N'-(2 ,5-dimethylphenyl)- .ALPHA.-METHYL-4-METHOXY-STYRENE §	3317	040487-42-1	7
				7392	331864-72-3	7
				1191	999001-19-1	2

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Data File : WLM-10prsen-180c-2jm.D
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Sample :
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Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
Integration Events: ChemStation Integrator - autoint1.e

RT	Area%	Library/ID	Ref#	CAS#	Qual
		\$ 1-ISOPROPENYL-4-METHOXYBENZENE \$ \$ 4-ISOPROPENYLPHENYL METHYL ETHER			
34.309	0.04	D:\DATABASE\DEMO.L METHYL PIMARA-8,15-DIEN-18-OATE \$ \$ 1-PHENANTHRENECARBOXYLIC ACID, 7-ETHENYL-1,2,3,4,4A,5,6,7,8,9,10,10A-DODECAHYDRO-1,4A,7-TRIMETHYL-, METHYL ESTER, [1R-(1.ALPHA.,4A.BETA.,7.BETA.,10A.ALPHA.)]- \$ \$ METHYL 8,15-PIMARADIEN-18-OATE METHYL PIMARA-8,15-DIEN-18-OATE \$ \$ 1-PHENANTHRENECARBOXYLIC ACID, 7-ETHENYL-1,2,3,4,4A,5,6,7,8,9,10,10A-DODECAHYDRO-1,4A,7-TRIMETHYL-, METHYL ESTER, [1R-(1.ALPHA.,4A.BETA.,7.ALPHA.,10A.ALPHA.)]- \$ \$ METHYL 8,15-ISOPIMARADIEN-18-OATE 1-Phenanthrenecarboxylic acid, 7-ethenyl-1,2,3,4,4a,5,6,7,8,9,10,10a-dodecahydro-1,4a,7-trimethyl-, methyl ester, [1R-(1.alpha.,4a.beta.,7.alpha.,10a.alpha.)]- \$ \$ Podocarp-8-en-15-oic acid, 13.beta.-methyl-13-vinyl-, methyl ester	466513 466512 466506	003582-26-1 019907-21-2 019907-21-2	55 46 46
34.525	0.09	D:\DATABASE\DEMO.L (+)-1A,7,4A,9,10,10A-DODECAHYDRO-1,4A,7-TRIMETHYL-7-VINYL-1-PHENANTHRENECARBALDEHYDHYL 4,8ZC.BETA.THIOMETHYL] (12-YL2ETHYLTHIOYLEMCLETHYLDETHYL3-YLAPHTHC)TAOMM.BETA.AMO6. [UCHOALFPAL]YLS PIMARA-8,15-DIENE \$ \$ PHENANTHRENE, 7-ETHENYL-1,2,3,4,4A,5,6,7,8,9,10,10A-DODECAHYDRO-1,1,4A,7-TETRAMETHYL- \$ \$ 7.ALPHA.-ETHENYL-1,1,4A,7.BETA.-TETRAMETHYL-1,2,3,4,4A,5,6,7,8,9,10,10A-DODECAHYDROPHENANTHRENE 8-p-Tolyl-8-aza-spiro[4.5]decane-7,9-dione	481209 481165 398754	000000-00-0 055255-56-6 999398-75-8	38 38 38
34.666	0.01	D:\DATABASE\DEMO.L 2H-3,9A-METHANO-1-BENZOXEPIN, OCTAHYDRO-2,2,5A,9-TETRAMETHYL-, [3R-(3.ALPHA.,5A.ALPHA.,9.ALPHA.,9A.ALPHA.)]- \$ \$.BETA.-ACAROPURAN, DIHYDRO- \$ \$.BETA.-DIHYDROACAROPURAN \$ \$ 2H-3,9A-METHANO-1-BENZOXEPIN, OCTAHYDRO-2,2,5A,9-TETRAMETHYL- 1-Heptadecanamine \$ \$ Heptadecylamine \$ \$ n-Heptadecylamine \$ \$ Margarylamine Tridecylamine \$ \$ n-Tridecylamine \$ \$ 1-Aminotridecane \$ \$ 1-Tridecanamine	3110 4935 4735	005956-09-2 004200-95-7 002869-34-3	18 10 10
34.774	0.04	D:\DATABASE\DEMO.L XLSXC... ..	398754	999398-75-8	38

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			PHA., .ALPHA. "DIOL			
36	34.903	0.03	D:\DATABASE\DEMO.L 2-HYDROXY-5-METHOXY-3-NITROBENZALD EHYDE §§ 2-HYDROXY-5-METHYL-3-NITR OBENZALDEHYDE §§ 5-METHOXY-3-NITRO SALICYLALDEHYDE 1-(2,6-DICHLORO-BENZYL)-3,5-DIMETH YL-1H-PYRAZOL-4-YLAMINE §§ 1-(2,6- DICHLOROBENZYL)-3,5-DIMETHYL-1H-PY RAZOL-4-AMINE §§ 1-(2,6-DICHLOROB NYL)-3,5-DIMETHYL-1H-PYRAZOL-4-YL AMINE 1,3-BENZENEDIMETHANOL, 2-HYDROXY-5 -(1-METHYLETHYL)- §§ 2,6-BIS(HYDRO XYMETHYL)-4-ISOPROPYLPHEMOL §§ 2,6 -BIS(HYDROXYMETHYL)-4-ISOPROPYLPHE NOL (IMPURE) §§ 2,6-BIS-HYDROXYMET HYL-4-ISOPROPYLPHEMOL	7328	066620-31-3	9
				7421	999007-42-2	6
				330	054845-41-9	2
37	35.028	0.05	D:\DATABASE\DEMO.L Benzene, (2,2-dimethoxyethyl)- §§ Acetaldehyde, phenyl-, dimethyl ac etal §§ .alpha.-Tolylaldehyde dime thyl acetal §§ Hyascylane P Benzene, 1-[(dimethoxymethyl)-1-at hyl]-4-methoxycarbonyl-1-ethyl- 4-(Dimethyl(prop-2-enyl)silyloxy)oc tane	122348	000101-48-4	50
				123523	999123-52-6	40
				123131	999123-13-4	40
38	35.136	0.03	D:\DATABASE\DEMO.L 1H-INDEN-2-AMINE, 2,3-DIHYDRO-4-ME THOXY- §§ 1-METHOXY-6-AMINOINDANE §§ 4-METHOXYINDAN-2-AMINE O-CYCLOHEXYL N,N-DIETHYL PHOSPHORA MIDO CYANIDATE §§ PHOSPHORAMIDOCYA NIDIC ACID, DIETHYL-, CYCLOHEXYL E STER 2-[(4-(2-OXIRANYLMETHOXY)PHENYL)ACE TAMIDE §§ 4-OXIRANYLMETHOXY-BENZEN EACETAMIDE	354405	076413-92-8	25
				355166	999355-16-9	22
				354653	999354-65-6	22
				354518	000000-00-0	14
40	35.303	0.03	D:\DATABASE\DEMO.L 6-METHOXY-5-NITRO-2-PHENYLQUINOLAL INE 2-Pyrrol[tert-butyl(dimethyl)silyl]oxymorphopropan-1-ol 6-Dimethyl(dichloromethyl)silyloxy tridecane	123667	000000-00-0	22
				122672	999122-67-5	22
				124167	999124-17-0	14

Data Path : F:\DATA MS\daa\
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 ALS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

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			n-Heptyloxylaniline §§ 4-n-Heptylox ylaniline	228109	039905-44-7	47
			Acetamide, N-(2-hydroxyphenyl)- §§ Acetanilide, 2'-hydroxy- §§ o-(Ac etylamino)phenol §§ o-Acetamidophe nol	227250	000614-80-2	47
			2-Methyl-2H-pyrazole-3-carboxylic acid, [1-(4-nitrophenyl)ethylidene]hydrazide	229060	999229-06-3	43
42	35.481	0.78	D:\DATABASE\DEMO.L BENZ(A)ANTHRACENE	513655	099707-96-7	83
			Xanthen-9-one, 1-hydroxy-3,5,8-tri methoxy- §§ 5,8-Dimethylbellidifol in §§ 1-Hydroxy-3,5,8-trimethoxyxa nthen-9-one §§ 1-Hydroxy-3,5,8-tri methoxy-9H-xanthen-9-one #	504583	049599-09-9	48
			Silane, dimethyl(2-methyloct-5-yn- 4-yloxy)hexyloxy-	466397	999466-40-5	44
43	35.654	0.08	D:\DATABASE\DEMO.L (4-Ethylphenyl)-(2-methylbenzo[4,5 imidazo[1,2-a] pyrimidin-4-yl)ami ne	504586	999504-59-8	44
			2,7-Phenanthrenediol, 1,2,3,4,4a,9 ,10,10a-octahydro-1,1,4a-trimethyl -8-(1-methylethyl)-, [2S-(2.alpha. ,4a.alpha.,10a.beta.)]- §§ Podocar pa-8,11,13-triene-3.beta.,13-diol, 14-isopropyl- §§ Totaradiol §§ 3. beta.-Hydroxytotarol	504611	000000-00-0	38
			ROSIN ACIDS			
44	35.757	0.25	D:\DATABASE\DEMO.L DEHYDROABIETIC ACID	464556	000000-00-0	97
			METHYL ABIETA-8,11,13-TRIEN-18-OAT E §§ 1-PHENANTHRENECARBOXYLIC ACID , 1,2,3,4,4A,9,10,10A-OCTAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, ME THYL ESTER, [1R-(1.ALPHA.,4A.BETA. ,10A.ALPHA.)]- §§ DEHYDROABIETIC A CID METHYL ESTER §§ METHYL DEHYDRO ABIETATE	464550	001235-74-1	95
			1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, methyl ester, [1R-(1.alpha.,4a.beta.,10a. alpha.)]- §§ Podocarpa-8,11,13-tri en-18-oic acid, 13-isopropyl-, met hyl ester §§ Methyl dehydroabietat	464538	001235-74-1	95
45	35.908	0.07	D:\DATABASE\DEMO.L KAUR-16-EN-18-OIC ACID §§ KAUR-16- EN-18-OIC ACID, (4.BETA.)- §§ (-)- KAURIC ACID §§ (4-BETA)-KAUR-1 6-EN-18-OIC ACID	168418	020316-84-1	47
			1H-Pyrazole-1-acetamide, 4-iodo-N- (phenylmethyl)-	170579	999170-58-2	25
			ANTI-(Z)-BIS(FENCHYLIDENE) EPOXIDE	250745	000000-00-0	14

Data Path : F:\DATA MS\daa\
 Data File : WLM-10p-sen-180c-2jm.D
 Acq On : 12 Oct 2019 8:00
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Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

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5	36.011	0.09	D:\DATABASE\DEMO.L 2.BETA.BENZYL-8.BETA.-HYDROXY-4,6-DIMETHYL-3,5,7-TRIOXATETRACYCLO[7.2.1.0(4,11).0(6,10)]DODECANE A-NORPREGN-3(5)-ENE, 3,20-DIMETHYL- - 55 3,20-DIMETHYL-A-MOR-3(5)-PREGNENE 55 DICYCLOPENTA[A,F]NAPHTHALENE, A-NORPREGN-3(5)-ENE DERIV. KAUR-16-EN-18-OIC ACID 55 KAUR-16-EN-18-OIC ACID, (4.BETA.)- 55 (-)-KAURMENOIC ACID 55 (4-BETA)-KAUR-16-EN-18-OIC ACID	503165	000000-00-0	50
				503129	062008-73-5	35
				168418	020316-84-1	30
7	36.086	0.37	D:\DATABASE\DEMO.L INDOLIZINO[1,2-B]QUINOLIN-9(11H)-ONE, 8-[(FORMYLOXY)METHYL]-7-(1-CYCLOPROPYL)- 55 8-FORMYLOXYMETHYL-7-(1-CYCLOPROPYL) INDOLIZINO[1,2-B]QUINOLIN-9(11H)-ONE 1-Hydroxy-6-(3-isopropenyl-cyclohexyl)-6-methyl-heptan-2-one KAUR-16-EN-18-OIC ACID 55 KAUR-16-EN-18-OIC ACID, (4.BETA.)- 55 (-)-KAURMENOIC ACID 55 (4-BETA)-KAUR-16-EN-18-OIC ACID	504762	054318-62-6	95
				257257	999257-26-0	55
				168418	020316-84-1	49
8	36.276	0.05	D:\DATABASE\DEMO.L (4-Ethylphenyl)-(2-methylbenzo[4,5-f]imidazo[1,2-a]pyrimidin-4-yl)amine PIMARA-8(14),15-DIEN-18-OIC ACID 55 1-PHENANTHRENECARBOXYLIC ACID, 7-ETHENYL-1,2,3,4,4A,4B,5,6,7,9,10,10A-DECAHYDRO-1,4A,7-TRIMETHYL-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,7.BETA.,10A.ALPHA.)]- 55 (+)-PIMARIC ACID 55 .ALPHA.-PIMARIC ACID Andrographolide 55 2(3H)-Furanone, 3-[2-[6acahydro-6-hydroxy-5-(hydroxymethyl)-5,8a-dimethyl-2-methyleno-1-naphthalenyl]ethylidene]dihydro-4-hydroxy-	504586	999504-59-8	44
				504608	000127-27-5	25
				171071	005508-58-7	25
9	36.384	0.17	D:\DATABASE\DEMO.L METHYL ABIETA-7,13-DIEN-18-OATE 55 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, METHYL ESTER, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A.ALPHA.)]- 55 ABALYNE 55 ABIETIC ACID METHYL ESTER METHYL ABIETA-7,13-DIEN-18-OATE 55 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, METHYL ESTER, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A.ALPHA.)]- 55 ABALYNE 55 ABIETIC ACID METHYL ESTER	480551	000127-25-3	91
				480550	000127-25-3	90

Data Path : F:\DATA MS\data\
 Data File : WLM-10prsen-180c-2jm.D
 Acq On : 12 Oct 2019 8:00
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 Sample :
 Misc :
 LS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

RT	Area%	Library/ID	Ref#	CAS#	Qual
		Methyl abietate §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, methyl ester, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl-, methyl ester §§ Abalyn	480547	000127-25-3	90
36.465	0.03	D:\DATABASE\DEMO.L KAUR-16-EN-18-OIC ACID §§ KAUR-16-EN-18-OIC ACID, (4.BETA.)- §§ (-)-KAURMENOIC ACID §§ (4-BETA.)-KAUR-16-EN-18-OIC ACID Abietic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- §§ L-abietic acid Androst-5-en-17-ol, 4,4-dimethyl-	168418	020316-84-1	70
		Abietic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- §§ L-abietic acid Androst-5-en-17-ol, 4,4-dimethyl-	513378	000514-10-3	66
		Androst-5-en-17-ol, 4,4-dimethyl-	513436	998513-44-9	52
36.594	0.53	D:\DATABASE\DEMO.L C-HYDROGEN PERDEUTERIO HEXADECANOIC ACID 1-PHENANTHRENECARBOXYLIC ACID, 7-E THENYL-1,2,3,4,4A,4B,5,6,7,8,10,10A-DODECAHYDRO-1,4A,7-TRIMETHYL-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,7.ALPHA.,10A.ALPHA.)]- §§ ISOPIMARIC ACID §§ PODOCARP-7-EN-15-OIC ACID, 13.BETA.-METHYL-13-VINYLBENZ(A)ANTHRACENE	504545	038756-30-4	90
		1-PHENANTHRENECARBOXYLIC ACID, 7-E THENYL-1,2,3,4,4A,4B,5,6,7,8,10,10A-DODECAHYDRO-1,4A,7-TRIMETHYL-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,7.ALPHA.,10A.ALPHA.)]- §§ ISOPIMARIC ACID §§ PODOCARP-7-EN-15-OIC ACID, 13.BETA.-METHYL-13-VINYLBENZ(A)ANTHRACENE	466436	005835-26-7	87
		BENZ(A)ANTHRACENE	513655	098707-96-7	87
36.740	0.29	D:\DATABASE\DEMO.L 1H-NAPHTHO(2,3-C)PYRAN-5,10-DIONE, 3,4-DIHYDRO-7,9-DIMETHOXY-1,3-DIMETHYL-, TRANS-(+.-)- §§ (+,-)-DEOXYQUINONE A DIMETHYL ETHER §§ (+,-)-TRANS-7,9-DIMETHOXY-1,3-DIMETHYL-3,4,5,10-TETRAHYDRONAPHTHO(2,3-C)PYRAN-5,10-DIONE 1H-NAPHTHO(2,3-C)PYRAN-5,10-DIONE, 3,4-DIHYDRO-7,9-DIMETHOXY-1,3-DIMETHYL-, CIS-(+.-)- §§ (+,-)-CIS-7,9-DIMETHOXY-1,3-DIMETHYL-3,4,5,10-TETRAHYDRONAPHTHO(2,3-C)PYRAN-5,10-DIONE Palustric acid §§ Podocarpa-8,13-dien-15-oic acid, 13-isopropyl- §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,5,6,9,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, (1R-(1.alpha.,4a.beta.,10a.alpha.)- §§ 8,13-Abietadien-18-oic acid	513557	084018-44-0	91
		1H-NAPHTHO(2,3-C)PYRAN-5,10-DIONE, 3,4-DIHYDRO-7,9-DIMETHOXY-1,3-DIMETHYL-, TRANS-(+.-)- §§ (+,-)-DEOXYQUINONE A DIMETHYL ETHER §§ (+,-)-TRANS-7,9-DIMETHOXY-1,3-DIMETHYL-3,4,5,10-TETRAHYDRONAPHTHO(2,3-C)PYRAN-5,10-DIONE 1H-NAPHTHO(2,3-C)PYRAN-5,10-DIONE, 3,4-DIHYDRO-7,9-DIMETHOXY-1,3-DIMETHYL-, CIS-(+.-)- §§ (+,-)-CIS-7,9-DIMETHOXY-1,3-DIMETHYL-3,4,5,10-TETRAHYDRONAPHTHO(2,3-C)PYRAN-5,10-DIONE Palustric acid §§ Podocarpa-8,13-dien-15-oic acid, 13-isopropyl- §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,5,6,9,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, (1R-(1.alpha.,4a.beta.,10a.alpha.)- §§ 8,13-Abietadien-18-oic acid	513558	084018-43-9	91
		Palustric acid §§ Podocarpa-8,13-dien-15-oic acid, 13-isopropyl- §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,5,6,9,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, (1R-(1.alpha.,4a.beta.,10a.alpha.)- §§ 8,13-Abietadien-18-oic acid	513439	001945-53-5	66
36.956	0.41	D:\DATABASE\DEMO.L 1-Phenanthrenecarboxylic acid, 1,2	503093	001740-19-8	99

Data Path : F:\DATA MS\daa\
 Data File : WLM-10p-ssn-180c-2jm.D
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 Sample :
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.a

%#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, [1R-(1. alpha.,4a.beta.,10a.alpha.)]- \$S P odocarpa-8,11,13-trien-15-oic acid , 13-isopropyl- \$S Abieta-8,11,13- trien-18-oic acid \$S Abietic acid, dehydro- 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,9,10,10A-OCTAHYDRO-1,4A-DI METHYL-7-(1-METHYLETHYL)-, [1R-(1. ALPHA.,4A.BETA.,10A.ALPHA.)]- \$S (-)-DEHYDROABIETIC ACID \$S 1,2,3,4, 4A,9,10,10A-OCTAHYDRO-1,4A-DIMETHY L-7-(1-METHYLETHYL)-1-PHENANTHRENE CARBOXYLIC ACID ABIETA-8,11,13-TRIEN-18-OIC ACID \$ S PODOCARPA-8,11,13-TRIEN-15-SAEUR E, 13-ISOPROPYL-	503110	001740-19-8	99
54	37.026	0.51	D:\DATABASE\DEMO.L 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,9,10,10A-OCTAHYDRO-1,4A-DI METHYL-7-(1-METHYLETHYL)-, [1R-(1. ALPHA.,4A.BETA.,10A.ALPHA.)]- \$S (-)-DEHYDROABIETIC ACID \$S 1,2,3,4, 4A,9,10,10A-OCTAHYDRO-1,4A-DIMETHY L-7-(1-METHYLETHYL)-1-PHENANTHRENE CARBOXYLIC ACID 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, [1R-(1. alpha.,4a.beta.,10a.alpha.)]- \$S P odocarpa-8,11,13-trien-15-oic acid , 13-isopropyl- \$S Abieta-8,11,13- trien-18-oic acid \$S Abietic acid, dehydro- 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, [1R-(1. alpha.,4a.beta.,10a.alpha.)]- \$S P odocarpa-8,11,13-trien-15-oic acid , 13-isopropyl- \$S Abieta-8,11,13- trien-18-oic acid \$S Abietic acid, dehydro-	503110	001740-19-8	86
			1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, [1R-(1. alpha.,4a.beta.,10a.alpha.)]- \$S P odocarpa-8,11,13-trien-15-oic acid , 13-isopropyl- \$S Abieta-8,11,13- trien-18-oic acid \$S Abietic acid, dehydro-	503093	001740-19-8	86
			1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, [1R-(1. alpha.,4a.beta.,10a.alpha.)]- \$S P odocarpa-8,11,13-trien-15-oic acid , 13-isopropyl- \$S Abieta-8,11,13- trien-18-oic acid \$S Abietic acid, dehydro-	503081	001740-19-8	84
55	37.226	0.39	D:\DATABASE\DEMO.L 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, [1S-(1. alpha.,4a.alpha.,10a.beta.)]- \$S P odocarpa-8,11,13-trien-16-oic acid , 13-isopropyl- \$S Callitrisic aci d \$S 4-Epiabietic acid, dehydro- ABIETA-8,11,13-TRIEN-18-OIC ACID \$ S 1-PHENANTHRENECARBOXYLIC ACID, 1 ,2,3,4,4A,9,10,10A-OCTAHYDRO-1,4A- DIMETHYL-7-(1-METHYLETHYL)-, [1S-(1.ALPHA.,4A.ALPHA.,10A.BETA.)]- \$S 13-ISOPROPYLPODOCARPA-8,11,13-TRI	503094	005155-70-4	90
			1-PHENANTHRENECARBOXYLIC ACID, 1, 2,3,4,4A,9,10,10A-OCTAHYDRO-1,4A- DIMETHYL-7-(1-METHYLETHYL)-, [1S-(1.ALPHA.,4A.ALPHA.,10A.BETA.)]- \$S 13-ISOPROPYLPODOCARPA-8,11,13-TRI	503112	005155-70-4	90

Data Path : F:\DATA MS\daa\
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 Sample :
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 ALS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			EN-18-OIC ACID §§ 4-EPIABIETIC ACID, DEHYDRO-			
			1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,10a.alpha.)]- §§ Podocarpa-8,11,13-trien-15-oic acid, 13-isopropyl- §§ Abietic acid, 13-trien-18-oic acid §§ Abietic acid, dehydro-	503081	001740-19-8	83
56	37.361	0.10	D:\DATABASE\DEMO.L 1,4-DIHYDRO-9-ISOPROPYLIDENE-5,6,7,8-TETRAMETHOXY-1,4-METHANONAPHTHALENE 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,10a.alpha.)]- §§ Podocarpa-8,11,13-trien-15-oic acid, 13-isopropyl- §§ Abietic acid, 13-trien-18-oic acid §§ Abietic acid, dehydro-	513381	000000-00-0	90
			ABIETA-7,13-DIEN-18-OIC ACID §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO- §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A.ALPHA.)]-	168420	000514-10-3	51
57	37.691	2.78	D:\DATABASE\DEMO.L Abietic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- §§ 1-Abietic acid Abietic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- §§ 1-Abietic acid Abietic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- §§ 1-Abietic acid	513378	000514-10-3	99
			Abietic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- §§ 1-Abietic acid	513347	000514-10-3	93
			Abietic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- §§ 1-Abietic acid	513344	000514-10-3	93
58	38.485	0.24	D:\DATABASE\DEMO.L Abietic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- §§ 1-Abietic acid	513378	000514-10-3	98

Data Path : F:\DATA MS\data\
 Data File : WLM-10pssen-180c-2jm.D
 Acq On : 12 Oct 2019 8:00
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 Sample :
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

%#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			ethyl-ethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- \$S Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- \$S L-abiatic acid			
			Abiatic acid \$S 1-Phenanthrenecarb oxylie acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- \$S Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- \$S L-abiatic acid	513347	000514-10-3	89
			Falustric acid \$S Podocarpa-8,13-d ien-15-oic acid, 13-isopropyl- \$S 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,5,6,9,10,10a-decahydro-1,4 a-dimethyl-7-(1-methylethyl)-, (1R -(1.alpha.,4a.beta.,10a.alpha.))- \$S 8,13-Abietadien-18-oic acid	513439	001945-53-5	86
59	38.831	0.09	D:\DATABASE\DEMO.L Abiatic acid \$S 1-Phenanthrenecarb oxylie acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- \$S Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- \$S L-abiatic acid	513378	000514-10-3	74
			Abiatic acid \$S 1-Phenanthrenecarb oxylie acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- \$S Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- \$S L-abiatic acid	513347	000514-10-3	84
			Abiatic acid \$S 1-Phenanthrenecarb oxylie acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- \$S Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- \$S L-abiatic acid	513344	000514-10-3	51
60	39.004	0.20	D:\DATABASE\DEMO.L Abiatic acid \$S 1-Phenanthrenecarb oxylie acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- \$S Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- \$S L-abiatic acid	513344	000514-10-3	44
			Abiatic acid \$S 1-Phenanthrenecarb oxylie acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- \$S Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- \$S L-abiatic acid	513378	000514-10-3	35
			Abiatic acid \$S 1-Phenanthrenecarb oxylie acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- \$S Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- \$S L-abiatic acid	513347	000514-10-3	35

Data Path : F:\DATA MS\daa\
 Data File : WLM-10pssen-180c-2jm.D
 Acq On : 12 Oct 2019 8:00
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 Sample :
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

k#	RT	Area#	Library/ID	Ref#	CAS#	Qual
			10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- §§ Podo caspa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abiatic acid			
51	39.166	0.03	D:\DATABASE\DEMO.L Abiatic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- §§ Podo caspa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abiatic acid 2-METHOXYESTRA-1,3,5(10)-TRIENE-3, 17-DIOL §§ ESTRA-1,3,5(10)-TRIENE- 3,17-DIOL, 2-METHOXY-, (17.BETA.)- §§ (17BETA)-2-METHOXYESTRA-1,3,5(10)-TRIENE-3,17-DIOL §§ 2-HYDROXYE STRADIOL 2-METHYL ETHER Estra-1,3,5(10)-triene-3,17-diol, 2-methoxy-, (17.beta.)- §§ Estra-1 ,3,5(10)-triene-3,17.beta.-diol, 2 -methoxy- §§ 2-Hydroxyestradiol 2- methyl ether §§ 2-Methoxyestradiol	513347	000514-10-3	54
52	39.306	0.06	D:\DATABASE\DEMO.L Abiatic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- §§ Podo caspa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abiatic acid Abiatic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- §§ Podo caspa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abiatic acid ABIETA-7,13-DIEN-18-OIC ACID §§ 1- PHENANTHRENECARBOXYLIC ACID, 1,2,3 ,4,4A,4B,5,6,10,10A-DECAHYDRO- §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, [1 R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A .ALPHA.)]-	513347	000514-10-3	60
			Abiatic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- §§ Podo caspa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abiatic acid ABIETA-7,13-DIEN-18-OIC ACID §§ 1- PHENANTHRENECARBOXYLIC ACID, 1,2,3 ,4,4A,4B,5,6,10,10A-DECAHYDRO- §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, [1 R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A .ALPHA.)]-	513378	000514-10-3	42
			ABIETA-7,13-DIEN-18-OIC ACID §§ 1- PHENANTHRENECARBOXYLIC ACID, 1,2,3 ,4,4A,4B,5,6,10,10A-DECAHYDRO- §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, [1 R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A .ALPHA.)]-	168419	000514-10-3	30
53	40.241	0.00	D:\DATABASE\DEMO.L KAUR-16-EN-18-OIC ACID §§ KAUR-16- EN-18-OIC ACID, (4.BETA.)- §§ (-)- KAURNEOIC ACID §§ (4-BETA)-KAUR-1 6-EN-18-OIC ACID 2-PROPENE-1-SULFONIC ACID, 3-(3,4, 5-TRIMETHOXYPHENYL)-, METHYL ESTER , (E)- §§ METHYL-3-(3',4',5'-TRIME THOXYPHENYL)-2-PROPENE-1-SULFONAT	168418	020316-84-1	32
			2-PROPENE-1-SULFONIC ACID, 3-(3,4, 5-TRIMETHOXYPHENYL)-, METHYL ESTER , (E)- §§ METHYL-3-(3',4',5'-TRIME THOXYPHENYL)-2-PROPENE-1-SULFONAT	428799	104503-96-0	32

Data Path : F:\DATA MS\data\
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 Acq On : 12 Oct 2019 8:00
 Operator :
 Sample :
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area#	Library/ID	Ref#	CAS#	Qual
			2-Pyrrolidinone, 3-hydroxy-4-methyl-3-phenyl-, (3S-cis)-	208512	104194-17-4	15
			3-Hydroxy-4-methyl-3-phenyl-2-pyrrolidinone			
			a #			
64	40.289	0.00	D:\DATABASE\DEMO.L			
			CIS-4-ETHOXY-B-METHYL-B-NITROSTYRENE	428132	000000-00-0	25
			cis-4-Ethoxy-b-methyl-b-nitrostyrene	428021	999428-02-8	25
			na			
			ABIETA-7,13-DIEN-18-OIC ACID	168419	000514-10-3	25
			1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4a,4b,5,6,10,10a-DECAHYDRO-			
			1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4a,4b,5,6,10,10a-DECAHYDRO-1,4a-DIMETHYL-7-(1-METHYLETHYL)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]-			
			PODOSAPIC ACID, 13-18-DIEN-15-OIC ACID, 13-18-OPROPYL-			
			1-ABIETIC ACID	513378	000514-10-3	84
			1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]-			
			PODOSAPIC ACID, 13-18-DIEN-15-OIC ACID, 13-18-OPROPYL-			
			1-ABIETIC ACID	513581	000000-00-0	83
			1,4-DIHYDRO-9-ISOPROPYLIDENE-5,6,7,8-TETRAMETHOXY-1,4-METHANONAPHTHALENE			
			PREGNANE, 20-METHYL-	513674	006005-93-2	59
			5.ALPHA.,17.ALPHA.-PREGNANE			
			20-METHYL-5.ALPHA.-PREGNANE			
			23,24-DINORCHOLANE			

Data Path : F:\DATA MS\daa\
 Data File : WLM-10pssan-180c-3jms.D
 Acq On : 9 Oct 2019 17:10
 Operator :
 Sample :
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

#	RT	Area%	Library/ID	Ref#	CAS#	Qual
1	1.973	0.07	D:\DATABASE\DEMO.L ACETIC ACID, HYDROXY-, ETHYL ESTER §§ ETHYL GLYCOLATE §§ ETHYL GLYCO LLATE §§ ETHYL HYDROXYACETATE ETHANOL §§ HYDROXYETHANE §§ 1-HYDR OXYETHANE §§ ABSOLUTE ALCOHOL Acetic acid, hydroxy-, ethyl ester §§ Glycolic acid, ethyl ester §§ Ethyl glycolate §§ Ethyl hydroxyac etate	5374	000623-50-7	4
2	1.989	0.08	D:\DATABASE\DEMO.L ETHANOL §§ HYDROXYETHANE §§ 1-HYDR OXYETHANE §§ ABSOLUTE ALCOHOL Ethanol §§ Ethyl alcohol §§ Alchoh 1 §§ Alcohol anhydrous ETHANOL §§ HYDROXYETHANE §§ 1-HYDR OXYETHANE §§ ABSOLUTE ALCOHOL	5099	000064-17-5	80
				5086	000064-17-5	78
				5094	000064-17-5	78
3	2.135	0.08	D:\DATABASE\DEMO.L Pentane, 2,4-dimethyl- §§ 2,4-Dime thylpentane PENTANE, 2,4-DIMETHYL- §§ 2,4-DIME THYLPENTANE §§ PENTANE, 2,4-DIMETH YL PENTANE, 2,4-DIMETHYL- §§ 2,4-DIME THYLPENTANE §§ PENTANE, 2,4-DIMETH YL	18750	000108-08-7	91
				65648	000108-08-7	90
				19002	000108-08-7	80
4	2.205	9.99	D:\DATABASE\DEMO.L Hexane, 3-methyl- §§ 2-Ethylpantan e §§ 3-Methylhexane HEXANE, 3-METHYL- §§ 3-METHYLHEXAN E §§ 2-ETHYLPENTANE §§ HEXANE, 3-M ETHYL Hexane, 3-methyl- §§ 2-Ethylpantan e §§ 3-Methylhexane	18743	000589-34-4	68
				18992	000589-34-4	68
				18754	000589-34-4	68
5	2.243	4.01	D:\DATABASE\DEMO.L Cyclopentane, 1,3-dimethyl-, cis- §§ cis-1,3-Dimethylcyclopentane §§ 1,3-Dimethylcyclopentane cis §§ 1 ,3-Dimethylcyclopentane # 1,3-DIMETHYLCYCLOPENTANE §§ CYCLOP ENTANE, 1,3-DIMETHYL-, CIS- §§ 1,3 -DIMETHYLCYCLOPENTANE (CIS) §§ 1,3 -DIMETHYLCYCLOPENTANE CIS Cyclopentane, 1,3-dimethyl- §§ 1,3 -Dimethylcyclopentane	62231	002532-58-3	91
				62286	002532-58-3	91
6	2.335	6.85	D:\DATABASE\DEMO.L CYCLOHEXANE, METHYL- §§ METHYLCYCL OHEXANE §§ 1-METHYLCYCLOHEXANE §§ CYCLOHEXANE, METHYL CYCLOHEXANE, METHYL- §§ METHYLCYCL OHEXANE §§ 1-METHYLCYCLOHEXANE §§ CYCLOHEXANE, METHYL CYCLOHEXANE, METHYL- §§ METHYLCYCL OHEXANE §§ 1-METHYLCYCLOHEXANE §§	141469	000108-87-2	96
				141470	000108-87-2	95
				141467	000108-87-2	94

Data Path : F:\DATA MS\data\
 Data File : WLM-10prsen-180c-3jmu.D
 Acq On : 9 Oct 2019 17:10
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 Sample :
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

k#	RT	Area#	Library/ID	Ref#	CAS#	Qual
			CYCLOHEXANE, METHYL			
7	2.421	71.09	D:\DATABASE\DEMO.L BENZENE, METHYL- §§ METHYLBENZENE §§ TOLUENE §§ ANTISAL 1A Toluene §§ Benzene, methyl §§ Meth acide §§ Methylbenzene BENZENE, METHYL- §§ METHYLBENZENE §§ TOLUENE §§ ANTISAL 1A	158622	000108-88-3	91
8	2.751	1.05	D:\DATABASE\DEMO.L CYCLOHEXANE, ETHYL- §§ ETHYLCYCLOH EXANE §§ ETHYL CYCLOHEXANE §§ ETHY LCYCLOHEXAN Cyclohexane, ethyl- §§ Ethylcycloh exane Cyclohexane, ethyl- §§ Ethylcycloh exane	141561	001678-91-7	93
9	33.499	0.17	D:\DATABASE\DEMO.L PHENANTHRENE, 7-ETHENYL-1,2,3,4,4A ,5,6,7,8,9,10,10A-DODECAHYDRO-1,1, 4A,7-TETRAMETHYL-, [4AS-(4A.ALPHA. ,7.ALPHA.,10A.BETA.)]- §§ PINARA-8 (9),15-DIENE §§ PODOCARP-8-ENE, 13 .ALPHA.-METHYL-13-VINYL- 1,2-BIS(4-ETHOXYPHENYL)DIAZENE 1-0 XIDE §§ 4, 4'-BIS(ETHOXY)AZOXYBENZ ENE §§ 4,4'-AZOXYDIPHENETOLE §§ 4, 4'-AZOXYPHENETOLE 14-ISOPROPYL-3,7,11-TRIMETHYL-1,3, 6,10-CYCLOTETRADECATETRAENE §§ 1,3 ,6,10-CYCLOTETRADECATETRAENE, 3,7, 11-TRIMETHYL-14-(1-METHYLETHYL)-, [S-(E,Z,E,E)]- §§ (+)-CEMBRENE §§ (+)-THUMBERGEN	481161	018319-61-4	60
10	33.871	0.08	D:\DATABASE\DEMO.L Androst-2,16-diene 1-Methyl-10,18-biancrahieta-8,11,1 3-triene 10,13-DIMETHYL-4,5,6,7,8,9,10,11,1 2,13,14,15-DODECAHYDRO-1H-CYCLOPEN TA[A]PHENANTHRENE §§ ANDROSTA-2,16 -DIENE	466169	999466-17-7	96
11	35.503	1.27	D:\DATABASE\DEMO.L Phenol, 2,4-bis(1-phenylethyl)- §§ 2,4-Bis(1-phenylethyl)phenol # Xanthen-9-one, 1-hydroxy-3,5,8-tri methoxy- §§ 3,8-Dimethylbellidifol in §§ 1-Hydroxy-3,5,8-trimethoxyse nthan-9-one §§ 1-Hydroxy-3,5,8-tri methoxy-9H-xanthen-9-one # (4-Ethylphenyl)-(2-methylbenzo[4,5]imidazo[1,2-a] pyrimidin-4-yl)ami ne	504578	002769-94-0	55
12	35.649	0.12	D:\DATABASE\DEMO.L			

DATA PATH : F:\DATA MS\G22\
 Data File : WLM-10pmsen-180c-3jms.D
 Acq On : 9 Oct 2019 17:10
 Operator :
 Sample :
 disc :
 ALS Vial : 2 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			1-PHENANTHRENECARBOXYLIC ACID, 7-E THENYL-1,2,3,4,4A,4B,5,6,7,8,10,10 A-DOCECAHYDRO-1,4A,7-TRIMETHYL-, [	466436	005835-26-7	64
			1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,7. ALPHA.,10A.ALPHA.)]- §§ ISOPIMARIC ACID §§ PODOCARP-7-EN-15-OIC ACID , 13.BETA.-METHYL-13-VINYL-			
			Phenol, 2,4-bis(1-phenylethyl)- §§	504378	002769-94-0	49
			2,4-Bis(1-phenylethyl)phenol #			
			Phenazarsina, 5,10-dihydro-10-hydr	466306	004733-19-1	46
			oxy-, 10-oxide §§ Phenazarsinic ac id §§ Phenazarsinic acid §§ Phenar sarsina, 5,10-dihydro-5-hydroxy-, 5 -oxide			
3	35.757	0.26	D:\DATABASE\DEMO.L DEHYDROABIETIC ACID	464536	000000-00-0	97
			1-Phenanthrenecarboxylic acid, 1,2	464538	001235-74-1	93
			,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, methyl ester, [1R-(1.alpha.,4a.beta.,10a. alpha.)]- §§ Podocarpa-8,11,13-tri en-15-oic acid, 13-isopropyl-, met hyl ester §§ Methyl dehydroabietat			
			METHYL ABIETA-8,11,13-TRIEN-18-OAT	464550	001235-74-1	93
			E §§ 1-PHENANTHRENECARBOXYLIC ACID , 1,2,3,4,4A,9,10,10A-OCTAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, ME THYL ESTER, [1R-(1.ALPHA.,4A.BETA. ,10A.ALPHA.)]- §§ DEHYDROABIETIC A CID METHYL ESTER §§ METHYL DEHYDRO ABIETATE			
4	36.102	0.07	D:\DATABASE\DEMO.L Phenol, 2,4-bis(1-phenylethyl)- §§	504378	002769-94-0	59
			2,4-Bis(1-phenylethyl)phenol #			
			Palustric acid §§ Podocarpa-8,13-d	513439	001945-53-5	47
			ien-15-oic acid, 13-isopropyl- §§			
			1-Phenanthrenecarboxylic acid, 1,2			
			,3,4,4a,5,6,9,10,10a-decahydro-1,4			
			a-dimethyl-7-(1-methylethyl)-, (1R			
			-(1.alpha.,4a.beta.,10a.alpha.)]-			
			§§ 8,13-Abietadien-18-oic acid	504526	090594-32-4	43
			CYCLOPROPANECARBONITRILE, 1,1'-[IM			
			INOBIIS (METHYLENE)]BIS(2,2,3,3-TETR			
			AMETHYL- §§ 2,2,2',2',3,3,3',3'-OC			
			TAMETHYL-1,1'-IMINEBIS (METHYLENE)D			
			ICYCLOPROPANE-1,1'-DICARBONITRILE			
5	36.383	0.06	D:\DATABASE\DEMO.L METHYL ABIETA-7,13-DIEN-18-OATE §§	480551	000127-25-3	91
			1-PHENANTHRENECARBOXYLIC ACID, 1, 2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1 4A-DIMETHYL-7-(1-METHYLETHYL)-, M ETHYL ESTER, [1R-(1.ALPHA.,4A.BETA ,4B.ALPHA.,10A.ALPHA.)]- §§ ABALY N §§ ABIETIC ACID METHYL ESTER			
			Methyl abietate §§ 1-Phenanthreneac	258889	000127-25-3	90
			arboxylic acid, 1,2,3,4,4a,4b,5,6,			

Data Path : F:\DATA MS\Q22\
 Data File : WLM-10pseen-180c-3jms.D
 Acq On : 9 Oct 2019 17:10
 Operator :
 Sample :
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, methyl ester, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl-, methyl ester §§ Abalyx			
			METHYL ABIETA-7,13-DIEN-18-OATE §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4a,4b,5,6,10,10a-DECAHYDRO-1,4a-DIMETHYL-7-(1-METHYLETHYL)-, METHYL ESTER, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A.ALPHA.)]- §§ ABALYN §§ ABIETIC ACID METHYL ESTER	258918	000127-25-3	90
6	36.610	0.19	D:\DATABASE\DEMO.L			
			KAUR-16-EN-18-OIC ACID §§ KAUR-16-EN-18-OIC ACID, (4.BETA.)- §§ (-)-KAURIC ACID §§ (4-BETA)-KAUR-16-EN-18-OIC ACID	168418	020316-84-1	86
			Phenol, 2,4-bis(1-phenylethyl)- §§ 2,4-Bis(1-phenylethyl)phenol #	504578	002769-94-0	86
			Abietic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- §§ L-abietic acid	513344	000514-10-3	64
7	36.761	0.23	D:\DATABASE\DEMO.L			
			BENZ[A]ANTHRACENE	513655	099707-96-7	90
			Falustic acid §§ Podocarpa-8,13-dien-15-oic acid, 13-isopropyl- §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,5,6,9,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,10a.alpha.)]- §§ 8,13-Abietadien-15-oic acid	513439	001945-53-5	64
			Methanone, [1,4-dimethyl-7-(1-methylethyl)-2-azulenyl]phenyl- §§ 2-Benzoylguaiarulene §§ (7-Isopropyl-1,4-dimethyl-2-azulenyl) (phenyl)methanone #	513367	039665-56-0	42
8	37.048	1.12	D:\DATABASE\DEMO.L			
			1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,5,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,10a.alpha.)]- §§ Podocarpa-8,11,13-trien-15-oic acid, 13-isopropyl- §§ Abieta-8,11,13-trien-15-oic acid §§ Abietic acid, dehydro-	503081	001740-19-8	83
			1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,5,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,10a.alpha.)]- §§ Podocarpa-8,11,13-trien-15-oic acid, 13-isopropyl- §§ Abieta-8,11,13-	503082	001740-19-8	51

ata Path : F:\DATA MS\daa\
 ata File : WLM-10pssan-180c-3jms.D
 acq On : 9 Oct 2019 17:10
 Operator :
 Sample :
 iac :
 LS Vial : 2 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

RT	Area%	Library/ID	Ref#	CAS#	Qual
		trien-18-oic acid §§ Abietic acid, dehydro-			
		18-NAPHTHO[2,3-C]PYRAN-5,10-DICONE, 3,4-DIHYDRO-7,9-DIMETHOXY-1,3-DIM ETHYL-, TRANS-(+,-)- §§ (+,-)-DEO XYQUINONE A DIMETHYL ETHER §§ (+,-)-TRANS-7,9-DIMETHOXY-1,3-DIMETHYL -3,4,5,10-TETRAHYDRONAPHTHO[2,3-C] PYRAN-5,10-DICONE	513557	084018-44-0	45
37.242	0.54	D:\DATABASE\DEMO.L			
		Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethyl-ethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ 1-abietic acid	513378	000514-10-3	78
		Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethyl-ethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ 1-abietic acid	513344	000514-10-3	70
		ABIETA-7,13-DIEN-18-OIC ACID §§ 1- PHENANTHRENECARBOXYLIC ACID, 1,2,3 ,4,4A,4B,5,6,10,10A-DECAHYDRO- §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, [1 R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A .ALPHA.)]-	168419	000514-10-3	52
37.437	0.07	D:\DATABASE\DEMO.L			
		Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethyl-ethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ 1-abietic acid	513344	000514-10-3	83
		18-2,10A-ETHANOPHENANTHRENE, KAUR- 16-EN-18-OIC ACID DERIV. §§ KAUR-1 6-EN-18-OIC ACID §§ KAUR-16-EN-18- OIC ACID, (4.ALPHA.)- §§ (-)-ENT-K AUR-16-EN-18-OIC ACID	513651	006730-83-2	60
		Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethyl-ethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- §§ 1-abietic acid	513378	000514-10-3	60
37.707	2.60	D:\DATABASE\DEMO.L			
		Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m	513378	000514-10-3	99

Data Path : F:\DATA MS\data\
 Data File : WLM-10pssan-180c-3jms.D
 Acq On : 9 Oct 2019 17:10
 Operator :
 Sample :
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			ethyl-ethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- 66 Podo caspa-7,13-dien-15-oic acid, 13-is opropyl- 66 L-abiatic acid			
			Abiatic acid 66 1-Phenanthrenecarb oxylie acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethyl-ethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- 66 Podo caspa-7,13-dien-15-oic acid, 13-is opropyl- 66 L-abiatic acid	513344	000514-10-3	96
			Abiatic acid 66 1-Phenanthrenecarb oxylie acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethyl-ethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- 66 Podo caspa-7,13-dien-15-oic acid, 13-is opropyl- 66 L-abiatic acid	513347	000514-10-3	94

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsen-180c-4jm.D
 Acq On : 12 Oct 2019 12:30
 Operator :
 Sample :
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

#	RT	Area%	Library/ID	Ref#	CAS#	Qual
1	1.962	5.54	D:\DATABASE\DEMO.L Methyl Alcohol \$\$ Methanol \$\$ Carb inol \$\$ Methyl hydroxide METHANOL \$\$ HYDROXYMETHANE \$\$ ALCO HOL, METHYL \$\$ ALCOOL METHYLIQUE Methyl Alcohol \$\$ Methanol \$\$ Carb inol \$\$ Methyl hydroxide	3073	000067-56-1	2
				3073	000067-56-1	2
				3072	000067-56-1	2
2	2.070	0.01	D:\DATABASE\DEMO.L DECANE-1,2-D2 Formic acid, propyl ester \$\$ n-Pro pyl formate \$\$ Propyl formate \$\$ P ropyl methanoate 3-Cyclopropyl-4-hydroxy-4,5,5-trim ethyl-oxazolidin-2-one	22505 3233	019165-56-1 000110-74-7	33 25
				26504	999026-50-6	17
3	2.135	0.15	D:\DATABASE\DEMO.L Pentane, 2,4-dimethyl- \$\$ 2,4-Dime thylpentane Pentane, 2,4-dimethyl- \$\$ 2,4-Dime thylpentane Pentane, 2,4-dimethyl- \$\$ 2,4-Dime thylpentane	18750 18753 18799	000108-08-7 000108-08-7 000108-08-7	91 90 83
4	2.200	11.62	D:\DATABASE\DEMO.L HEXANE, 3-METHYL- \$\$ 3-METHYLHEXAN E \$\$ 2-ETHYLPENTANE \$\$ HEXANE, 3-M ETHYL 1-PENTANOL, 2-METHYL- \$\$ 2-METHYLP ENTAN-1-OL \$\$ (+)-2-METHYL-1-PENT ANOL \$\$ (+)-2-METHYLPENTANOL Hexane, 3-methyl- \$\$ 2-Ethylpenta n \$\$ 3-Methylhexane	18994 19228 18754	000589-34-4 000105-30-6 000589-34-4	64 59 58
5	2.243	4.54	D:\DATABASE\DEMO.L Cyclopentane, 1,3-dimethyl-, cis- \$\$ cis-1,3-Dimethylcyclopentane \$\$ 1,3-Dimethylcyclopentane cis \$\$ 1 ,3-Dimethylcyclopentane # 1,3-DIMETHYLCYCLOPENTANE \$\$ CYCLOP ENTANE, 1,3-DIMETHYL-, CIS- \$\$ 1,3 -DIMETHYLCYCLOPENTANE (CIS) \$\$ 1,3 -DIMETHYLCYCLOPENTANE CIS Cyclopentane, 1,3-dimethyl- \$\$ 1,3 -Dimethylcyclopentane	62231 62286	002532-58-3 002532-58-3	91 91
				101343	002453-00-1	91
6	2.335	6.78	D:\DATABASE\DEMO.L CYCLOHEXANE, METHYL- \$\$ METHYLCYCL CHEXANE \$\$ 1-METHYLCYCLOHEXANE \$\$ CYCLOHEXANE, METHYL CYCLOHEXANE, METHYL- \$\$ METHYLCYCL CHEXANE \$\$ 1-METHYLCYCLOHEXANE \$\$ CYCLOHEXANE, METHYL CYCLOHEXANE, METHYL- \$\$ METHYLCYCL CHEXANE \$\$ 1-METHYLCYCLOHEXANE \$\$ CYCLOHEXANE, METHYL	141469 141470 141467	000108-87-2 000108-87-2 000108-87-2	96 95 95
7	2.421	61.33	D:\DATABASE\DEMO.L Toluene \$\$ Benzene, methyl \$\$ Meth	138579	000108-88-3	91

Data Path : F:\DATA MS\daa\
 Data File : WLM-10prsen-180c-4jm.D
 Acq On : 12 Oct 2019 12:30
 Operator :
 Sample :
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

k#	RT	Area#	Library/ID	Ref#	CAS#	Qual
			acids \$\$ Methylbenzene			
			BENZENE, METHYL- \$\$ METHYLBENZENE	158625	000108-88-3	91
			\$\$ TOLUENE \$\$ ANTISAL 1A			
			Toluene \$\$ Benzene, methyl \$\$ Meth	158580	000108-88-3	91
			acids \$\$ Methylbenzene			
8	2.745	1.12	D:\DATABASE\DEMO.L			
			Cyclohexane, ethyl- \$\$ Ethylcyclohexane	141506	001678-91-7	93
			EXANE			
			Cyclohexane, ethyl- \$\$ Ethylcyclohexane	141508	001678-91-7	93
			EXANE			
			CYCLOHEXANE, ETHYL- \$\$ ETHYLCYCLOHEXANE	141561	001678-91-7	93
			EXANE \$\$ ETHYL CYCLOHEXANE \$\$ ETHYL CYCLOHEXAN			
9	2.875	0.48	D:\DATABASE\DEMO.L			
			BENZENE, METHYL- \$\$ METHYLBENZENE	158623	000108-88-3	90
			\$\$ TOLUENE \$\$ ANTISAL 1A			
			1,3,5-CYCLOHEPTATRIENE \$\$ CYCLOHEPTATRIENE	158636	000544-25-2	90
			TA-1,3,5-TRIENE \$\$ CYCLOHEPTATRIENE			
			E \$\$ CYCLOHEPTATRIENE [UN2603] [FL IMMABLE LIQUID]			
			1,3,5-CYCLOHEPTATRIENE \$\$ CYCLOHEPTATRIENE	158637	000544-25-2	87
			TA-1,3,5-TRIENE \$\$ CYCLOHEPTATRIENE			
			E \$\$ CYCLOHEPTATRIENE [UN2603] [FL IMMABLE LIQUID]			
10	17.315	0.03	D:\DATABASE\DEMO.L			
			2H-2,4A-METHANONAPHTHALENE, 1,3,4,5,6,7-HEXAHYDRO-1,1,3,5-TETRAMETHYL-, (2S)- \$\$ (-)-ISOLONGIFOLENE \$\$ (-)-ISOLONGIFOLINE \$\$ (2S)-1,3,4,5,6,7-HEXAHYDRO-1,1,3,5-TETRAMETHYL-2H-2,4A-METHANONAPHTHALENE	350801	001135-66-6	95
			2H-2,4a-Methanonaphthalene, 1,3,4,5,6,7-hexahydro-1,1,3,5-tetramethyl-, (2S)- \$\$ 2H-2,4a-Methanonaphthalene, 1,3,4,5,6,7-hexahydro-1,1,3,5-tetramethyl-, (2S,4aR)-(-)- \$\$ Isolongifolene \$\$ (-)-Isolongifoline	350641	001135-66-6	95
			2H-2,4A-METHANONAPHTHALENE, 1,3,4,5,6,7-HEXAHYDRO-1,1,3,5-TETRAMETHYL-, (2S)- \$\$ (-)-ISOLONGIFOLENE \$\$ (-)-ISOLONGIFOLINE \$\$ (2S)-1,3,4,5,6,7-HEXAHYDRO-1,1,3,5-TETRAMETHYL-2H-2,4A-METHANONAPHTHALENE	350804	001135-66-6	95
11	17.698	0.00	D:\DATABASE\DEMO.L			
			(2,6,6-TRIMETHYLBICYCLO[3.1.1]HEPT-3-YL)METHANAMINE \$\$ (2,6,6-TRIMETHYLBICYCLO[3.1.1]HEPT-3-YL)METHYLAMINE	4518	999004-51-9	10
			Ethanol, 2-bromo- \$\$ Ethylene bromohydrin \$\$ Glycol bromohydrin \$\$ 1-Bromo-2-ethanol	5441	000540-51-2	9
			3-(3-OXO-3H-BENZO[F]CHROMEN-2-YL)-2,4(1H,3H)-QUINOLINEDIONE \$\$ 4-HYDROXY-3-(2-OXO-2H-1-OXA-3-PHENANTHR	7476	999007-47-7	9

Data Path : F:\DATA MS\data\
 Data File : WLM-10pssen-180c-4jm.D
 Acq On : 12 Oct 2019 12:30
 Operator :
 Sample :
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

%#	RT	Area	Library/ID	Ref#	CAS#	Qual
			YL)-2 (1H)-QUINOLINONE			
12	17.725	0.01	D:\DATABASE\DEMO.L 2,2,3,3,4,4,5,5-OCTAFLUORO-N-(3-METHOXYPHENYL)PENTANAMIDE §§ PENTANAMIDE, 2,2,3,3,4,4,5,5-OCTAFLUORO-N-(3-METHOXYPHENYL)- Propanedioic acid, (hydroxylimino)-, diethyl ester §§ Bis-(ethoxycarbonyl)hydroxyliminomethane §§ Diethyl 1,2-(hydroxylimino)malonate #	7474	339166-43-7	9
			3-(3-CYO-3H-BENZO[F]CHROMEN-2-YL)-2,4(1H,3H)-QUINOLINEDIONE §§ 4-HYDROXY-3-(2-CYO-2H-1-CYA-3-PHENANTHRYL)-2 (1H)-QUINOLINONE	2893	006829-41-0	4
			3-(3-CYO-3H-BENZO[F]CHROMEN-2-YL)-2,4(1H,3H)-QUINOLINEDIONE §§ 4-HYDROXY-3-(2-CYO-2H-1-CYA-3-PHENANTHRYL)-2 (1H)-QUINOLINONE	7476	999007-47-7	4
13	28.610	0.01	D:\DATABASE\DEMO.L 4-(METHOXYMETHYL)-6-METHYL-2-PHEMOXYNICOTINONITRILE §§ PYRIDINE-3-CARBNITRILE, 4-METHOXYMETHYL-6-METHYL-2-PHENOXY- 4-BROMO-N-[(6-METHYL-2-PYRIDYL)AMINOMETHYL]PHTHALIMIDE §§ 5-BROMO-2-[[[6-METHYL-2-PYRIDINYL]AMINO]METHYL]-1H-ISOINDOLE-1,3(2H)-DIONE 1-Dodecanamine §§ Dodecylamine §§ n-Dodecylamine §§ Alanine 4	7413	332057-36-0	25
			4-BROMO-N-[(6-METHYL-2-PYRIDYL)AMINOMETHYL]PHTHALIMIDE §§ 5-BROMO-2-[[[6-METHYL-2-PYRIDINYL]AMINO]METHYL]-1H-ISOINDOLE-1,3(2H)-DIONE	7473	999007-47-4	9
			1-Dodecanamine §§ Dodecylamine §§ n-Dodecylamine §§ Alanine 4	4652	000124-22-1	4
14	30.215	0.00	D:\DATABASE\DEMO.L 4-(METHOXYMETHYL)-6-METHYL-2-PHEMOXYNICOTINONITRILE §§ PYRIDINE-3-CARBNITRILE, 4-METHOXYMETHYL-6-METHYL-2-PHENOXY- METHYL (2E,4E)-5-(1-HYDROXY-2,6,6-TRIMETHYL-4-CYO-2-CYCLOHEXEN-1-YL)-3-METHYL-2,4-PENTADIENOATE §§ 2,4-PENTADIENOIC ACID, 5-(1-HYDROXY-2,6,6-TRIMETHYL-4-CYO-2-CYCLOHEXEN-1-YL)-3-METHYL-, METHYL ESTER, (R)-(2,E)- §§ METHYL ABSICISATE 4-BROMO-N-[(6-METHYL-2-PYRIDYL)AMINOMETHYL]PHTHALIMIDE §§ 5-BROMO-2-[[[6-METHYL-2-PYRIDINYL]AMINO]METHYL]-1H-ISOINDOLE-1,3(2H)-DIONE	7413	332057-36-0	22
			METHYL (2E,4E)-5-(1-HYDROXY-2,6,6-TRIMETHYL-4-CYO-2-CYCLOHEXEN-1-YL)-3-METHYL-2,4-PENTADIENOATE §§ 2,4-PENTADIENOIC ACID, 5-(1-HYDROXY-2,6,6-TRIMETHYL-4-CYO-2-CYCLOHEXEN-1-YL)-3-METHYL-, METHYL ESTER, (R)-(2,E)- §§ METHYL ABSICISATE	3305	007200-31-9	10
			4-BROMO-N-[(6-METHYL-2-PYRIDYL)AMINOMETHYL]PHTHALIMIDE §§ 5-BROMO-2-[[[6-METHYL-2-PYRIDINYL]AMINO]METHYL]-1H-ISOINDOLE-1,3(2H)-DIONE	7473	999007-47-4	9
15	30.306	0.03	D:\DATABASE\DEMO.L Phenanthrene, 7-ethenyl-1,2,3,4,4a,5,6,7,8,9,10,10a-dodecahydro-1,1,4a,7-tetramethyl- §§ Pimara-8,15-diene # Naphthalene, decahydro-1,1,4a-trimethyl-6-methylene-5-(3-methyl-2,4-pentadienyl)-, [4aS-(4a.alpha.,5.alpha.,8a.beta.)]- §§ Lambda-8(20),1,2,14-triene §§ Biforman §§ Biformanone 1,1,4A-TRIMETHYL-6-METHYLENE-5-[(2E)-3-METHYL-2,4-PENTADIENYL]DECAHYDRONAPHTHALENE §§ NAPHTHALENE, DEC	481092	055255-56-6	87
			Phenanthrene, 7-ethenyl-1,2,3,4,4a,5,6,7,8,9,10,10a-dodecahydro-1,1,4a,7-tetramethyl- §§ Pimara-8,15-diene #	481091	005957-33-5	83
			Naphthalene, decahydro-1,1,4a-trimethyl-6-methylene-5-(3-methyl-2,4-pentadienyl)-, [4aS-(4a.alpha.,5.alpha.,8a.beta.)]- §§ Lambda-8(20),1,2,14-triene §§ Biforman §§ Biformanone	481156	005957-33-5	83
			1,1,4A-TRIMETHYL-6-METHYLENE-5-[(2E)-3-METHYL-2,4-PENTADIENYL]DECAHYDRONAPHTHALENE §§ NAPHTHALENE, DEC			

Data Path : F:\DATA MS\data\
 Data File : WLM-10p-see-180c-4jm.D
 Acq On : 12 Oct 2019 12:30
 Operator :
 Sample :
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

k#	RT	Area#	Library/ID	Ref#	CAS#	Qual
			ALHYDRO-1,1,4A-TRIMETHYL-6-METHYLEN E-5-(3-METHYL-2,4-PENTADIENYL)-, [4AS-(4A.ALPHA.,5.ALPHA.,8A.BETA.)] - §§ BIFORMEN §§ BIFORMENE			
16	30.549	0.01	D:\DATABASE\DEMO.L 4-(METHOXYMETHYL)-6-METHYL-2-PHENO XYNICOTINONITRILE §§ PYRIDINE-3-CA RBONITRILE, 4-METHOXYMETHYL-6-METH YL-2-PHENOXY- 1-Dodecanamine §§ Dodacylamina §§ n-Dodacylamina §§ Alamina 4 1-DODECANAMINE §§ 1-AMINODODECANE §§ 1-DODECYLAMINE §§ ALAMINE 4	7413	332057-36-0	25
17	30.712	0.01	D:\DATABASE\DEMO.L 4-(METHOXYMETHYL)-6-METHYL-2-PHENO XYNICOTINONITRILE §§ PYRIDINE-3-CA RBONITRILE, 4-METHOXYMETHYL-6-METH YL-2-PHENOXY- 1-Dodecanamine §§ Dodacylamina §§ n-Dodacylamina §§ Alamina 4 1-DODECANAMINE §§ 1-AMINODODECANE §§ 1-DODECYLAMINE §§ ALAMINE 4	7413	332057-36-0	27
18	30.879	0.01	D:\DATABASE\DEMO.L 4H-1-BENZOPYRAN-4-ONE, 3-HYDROXY-2 -(PHENYL-DS)- §§ 3-HYDROXY-2',3',4 ' ,5',6'-PENTADEUTEROFLAVONE 13-.ALPHA.-METHYLANDROSTA 4-(METHOXYMETHYL)-6-METHYL-2-PHENO XYNICOTINONITRILE §§ PYRIDINE-3-CA RBONITRILE, 4-METHOXYMETHYL-6-METH YL-2-PHENOXY-	468099	104197-23-1	43
				468266	000000-00-0	32
				7413	332057-36-0	22
19	31.187	0.01	D:\DATABASE\DEMO.L 4H-1-BENZOPYRAN-4-ONE, 3-HYDROXY-2 -(PHENYL-DS)- §§ 3-HYDROXY-2',3',4 ' ,5',6'-PENTADEUTEROFLAVONE Pyr-2n-4-one, 3-acetyl-2-(2-aminoph enylamino)-6-methyl- 13-.ALPHA.-METHYLANDROST-9,11-E	468099	104197-23-1	47
				468125	999468-13-3	38
				468253	000000-00-0	37
20	31.695	0.03	D:\DATABASE\DEMO.L 6-ETHYL-2-METHYL-4,6-DIHYDRO-2H-[1 ,4]OXAZINO[3,2-C]QUINOLINE-3,5-DIO NE §§ 6-ETHYL-2-METHYL-2H-1-OXA-4, 6-PHENANTHROLINE-3,5(4H,6H)-DIONE §§ 6-ETHYL-2-METHYL-6,10B-DIHYDRO- 2H-[1,4]OXAZINO[3,2-C]QUINOLINE-3, 5-DIONE (+)-METHYL HERITOL 3H-[1]BENZOTHIENO[3,2-D]AZONINE-3- CARBONITRILE, 1,2,4,5,6,7-HEXAHYDR O-7-METHOXY- §§ 7-METHOXY-2,3,4,5, 6,7-HEXAHYDRO-1H-[L]BENZOTHIENO[3, 2-D]AZONINE-3-CARBONITRILE	7414	334023-40-4	10
				484	000000-00-0	10
				7435	099659-20-8	7
21	31.824	0.00	D:\DATABASE\DEMO.L			

Data Path : F:\DATA MS\data\
 Data File : WLM-10pssan-180c-4jm.D
 Acq On : 12 Oct 2019 12:30
 Operator :
 Sample :
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autointl.e

%#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			N-Carboethoxymethylamine, formylmalonic acid diethyl ester	3288	999003-28-9	1
			DIETHYL 2-({[2-ETHOXY-2-OXOETHYL]IMINO}METHYL)MALONATE §§ N-CARBETOXYMETHYLIMINE, FORMYLMALONIC ACID DIETHYL ESTER	3294	999003-29-5	1
			ETHYL ESTER OF TRICHLOROACRYLIC ACID	2997	000000-00-0	1
22	31.997	0.04	D:\DATABASE\DEMO.L			
			Naphthalene, 1,2,3,4-tetrahydro-1-methyl-8-(1-methylethyl)- §§ 8-Isopropyl-1-methyl-1,2,3,4-tetrahydronaphthalene #	373089	081603-43-2	47
			5-Quinolinamine, 8-ethoxy-	373098	999373-10-2	38
			2-BUTYL-5-HEXYLINDANE §§ INDAN, 2-BUTYL-5-HEXYL- §§ 2-N-BUTYL-1-N-HEXYL-2,3-DIHYDROINDENE §§ 2-N-BUTYL-5-N-HEXYL-(2,3-DIHYDROINDENE)	398767	025446-32-6	35
23	32.100	0.02	D:\DATABASE\DEMO.L			
			2(1H)-Phenanthrene, 3,4,4a,9,10,10a-hexahydro-7-methoxy-1,1,4a-trimethyl- §§ 13-Methoxypodocarpa-8,11,13-trien-3-one #	481103	055255-51-1	46
			3,5-Bis(trifluoromethyl)-4-hydroxyacetophenone	481094	999481-10-6	43
			4'-METHYL-1',4'-DIHYDRO-[2,3']BIQUINOLINYL	481121	999481-13-3	43
24	32.392	0.01	D:\DATABASE\DEMO.L			
			1H-BENZIMIDAZOLE, 2-(4-THIAZOLYL)- §§ 1H-BENZIMIDAZOLE, 2-(4-THIAZOLYL)- §§ 2-(1,3-THIAZOL-4-YL)-1H-BENZIMIDAZOLE §§ 2-(1,3-THIAZOL-4-YL)BENZIMIDAZOLE	419260	000148-79-8	49
			1,4-Pentanediamine, N(4)-(6-methoxy-8-quinolinyl)- §§ Neo-Quinipryl §	419707	000090-34-6	47
			§ Primaquin §§ Primaquina			
			1,3,5-TRIAZINE-2,4-DIAMINE, 6-(3-METHYLPHENYL)- §§ 1,3,5-TRIAZINE-2,4-DIAMINE, 6-(3-METHYLPHENYL)- §	419264	029366-76-5	47
			§ 2-(M-METHYLPHENYL)-4,6-DIAMINO-5-TRIAZINE §§ 5-TRIAZINE, 2,4-DIAMINO-6-M-TOLYL-			
25	32.419	0.01	D:\DATABASE\DEMO.L			
			3,5-DIETHYL-2-(2-FURYL)PYRIDINE §§	419329	078563-73-2	30
			3,5-DIETHYL-4-(2-FURYL)PYRIDINE			
			4-NITRO-2-NAPHTHALDEHYDE	419272	000000-00-0	27
			5-Trifluoromethyl-3-methylthiazolidine-2-thione §§ 3-Methyl-5-(trifluoromethyl)-1,3-thiazolidine-2-thione #	419133	186791-22-0	27
26	32.764	0.01	D:\DATABASE\DEMO.L			
			1-Hexadecanamine §§ Hexadecylamine §§ n-Cetylamine §§ n-Hexadecylamine	4902	000143-27-1	16

Data Path : F:\DATA MS\022\
 Data File : WLM-10pssen-180c-4jm.D
 Acq On : 12 Oct 2019 12:30
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 Sample :
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			4-(METHOXYMETHYL)-6-METHYL-2-PHENOXYNICOTINONITRILE §§ PYRIDINE-3-CARBONITRILE, 4-METHOXYMETHYL-6-METHYL-2-PHENOXY-	7413	332057-36-0	16
			1-Heptadecanamine §§ Heptadecylamine §§ n-Heptadecylamine §§ Margarylamina	4935	004200-95-7	9
7	32.980	0.01	D:\DATABASE\DEMO.L 4-(METHOXYMETHYL)-6-METHYL-2-PHENOXYNICOTINONITRILE §§ PYRIDINE-3-CARBONITRILE, 4-METHOXYMETHYL-6-METHYL-2-PHENOXY-	7413	332057-36-0	16
			1-PENTADECANAMINE §§ 1-PENTADECYLAMINE §§ N-PENTADECYLAMINE §§ PENTADECANE, 1-AMINO-	4879	002570-26-5	9
			1-Tetradecanamine §§ Tetradecylamine §§ Armean 14 §§ Myristylamine	4817	002016-42-4	9
8	33.380	0.00	D:\DATABASE\DEMO.L 1-Hexadecanamine §§ Hexadecylamine §§ n-Cetylamine §§ n-Hexadecylamine	4902	000143-27-1	27
			2-METHOXY-4-(METHOXYMETHYL)-6-METHOXYNICOTINONITRILE §§ PYRIDINE-3-CARBONITRILE, 2,4-DIMETHOXY-6-METHYL	7347	063644-84-8	12
			1-Tetradecanamine §§ Tetradecylamine §§ Armean 14 §§ Myristylamine	4817	002016-42-4	10
9	33.499	0.11	D:\DATABASE\DEMO.L ANDROST-5-ENE, 4,4-DIMETHYL-, (13.alpha.)- §§ 4,4-DIMETHYL-13.alpha.-ANDROST-5-ENE	492912	073495-94-0	90
			(+)-1A7, 4A, 9, 10, 10A-DODECAHYDRO-1,4A, 7-TRIMETHYL-7-VINYL-1-PHENANTHRENE CARBALDEHYDHYL 4, A.Z.C. BETA. THIONE	481209	000000-00-0	53
			THYL3-YLAPHTHC)TACOM. BETA. ANO6, (U CHCALFPAL [YLS	492904	023837-99-2	50
			KAURA-5,16-DIEN-18-OL §§ KAURA-5,16-DIEN-18 (OR 19)-OL §§ KAURA-5,16-DIEN-19-OL			
0	33.618	0.00	D:\DATABASE\DEMO.L 4-BROMO-N-[(6-METHYL-2-PYRIDYL)AMINO]METHYL]PHTHALIMIDE §§ 5-BROMO-2-[[[(6-METHYL-2-PYRIDINYL)AMINO]METHYL]-1H-ISOINDOLE-1,3(2H)-DIONE	7473	999007-47-4	22
			2-METHOXY-4-(METHOXYMETHYL)-6-METHOXYNICOTINONITRILE §§ PYRIDINE-3-CARBONITRILE, 2,4-DIMETHOXY-6-METHYL	7347	063644-84-8	22
			1-Hexadecanamine §§ Hexadecylamine §§ n-Cetylamine §§ n-Hexadecylamine	4902	000143-27-1	12
1	33.661	0.00	D:\DATABASE\DEMO.L 4-(METHOXYMETHYL)-6-METHYL-2-PHENOXYNICOTINONITRILE §§ PYRIDINE-3-CARBONITRILE, 4-METHOXYMETHYL-6-METHYL-2-PHENOXY-	7413	332057-36-0	25

Data Path : F:\DATA MS\daa\
 Data File : WLM-10pseen-180c-4jm.D
 Acq On : 12 Oct 2019 12:30
 Operator :
 Sample :
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

%#	RT	Area#	Library/ID	Ref#	CAS#	Qual
			YL-2-PHENOXY-			
			1-Hexadecanamine §§ Hexadecylamine	4902	000143-27-1	12
			§§ n-Cetylamine §§ n-Hexadecylamine			
			3-(3-CYO-3H-BENZO[F]CHROMEN-2-YL)-	7476	999007-47-7	10
			2,4(1H,3H)-QUINOLINEDIONE §§ 4-HYD			
			ROXY-3-(2-CYO-2H-1-CYA-3-PHENANTHR			
			YL)-2(1H)-QUINOLINONE			
32	33.791	0.03	D:\DATABASE\DEMO.L			
			7-BENZYLOXY-2-HYDROXY-2H-[1,4]BENZ	166364	000000-00-0	11
			OXAZIN-3(4H)-ONE			
			7-BENZYLOXY-2,4-DIHYDROXY-2H-[1,4]	167385	000000-00-0	10
			BENZOXAZIN-3(4H)-ONE			
			9-Benzyladenine N(1)-oxide §§ 9-Ba	164412	004261-16-9	10
			nzyl-1-oxido-9H-purin-6-ylamine #			
33	33.861	0.07	D:\DATABASE\DEMO.L			
			10,13-DIMETHYL-4,5,6,7,8,9,10,11,1	466180	999466-18-8	95
			2,13,14,15-DODECAHYDRO-1H-CYCLOPEN			
			TA[A]PHENANTHRENE §§ ANDROSTA-2,16			
			-DIENE			
			1-Methyl-10,18-bisnorabieta-8,11,1	466158	999466-16-6	94
			3-triene			
			4-(N-METHYLAMINO)-6,7-(1,2,3,4-TET	466219	000000-00-0	90
			RAHYDRO-1,1,4,4-TETRAMETHYLBENZO)I			
			NDOLE			
34	34.131	0.01	D:\DATABASE\DEMO.L			
			1-Tetradecanamine §§ Tetradecylami	4817	002016-42-4	10
			ne §§ Armeen 14 §§ Myristylamine			
			Ethanolamine, 2-methoxy- §§ Ethylami	3693	000109-85-3	9
			ne, 2-methoxy- §§ .beta.-Methoxyet			
			hylamine §§ Methoxyethylamine			
			1-Undecanamine §§ Undecylamine §§	4554	007307-55-3	9
			n-Undecylamine §§ Dodecylamine			
35	34.196	0.01	D:\DATABASE\DEMO.L			
			2-METHOXY-4-(METHOXYMETHYL)-6-METH	7347	063644-84-8	12
			YLNICOTINONITRILE §§ PYRIDINE-3-CA			
			RBCNITRILE, 2,4-DIMETHOXY-6-METHYL			
			1-Hexadecanamine §§ Hexadecylamine	4902	000143-27-1	10
			§§ n-Cetylamine §§ n-Hexadecylami			
			ne			
			1,12-Dodecanediamine §§ 1,12-Diami	4748	002783-17-7	9
			nododecane §§ Dodecanethylenediami			
			ne §§ Dodecylanediamine			
36	34.309	0.04	D:\DATABASE\DEMO.L			
			1-Phenanthrenecarboxylic acid, 7-a	466507	003582-26-1	86
			thenyl-1,2,3,4,4a,5,6,7,8,9,10,10a			
			-dodecahydro-1,4a,7-trimethyl-, me			
			thyl ester, [1R-(1.alpha.,4a.beta.			
			,7.beta.,10a.alpha.)]- §§ Podocarp			
			-8-en-15-oic acid, 13.alpha.-methyl			
			1-13-vinyl-, methyl ester			
			METHYL PINGARA-8(14),15-DIEN-18-OAT	466514	001686-54-0	82
			E §§ 1-PHENANTHRENECARBOXYLIC ACID			
			, 7-ETHENYL-1,2,3,4,4A,4B,5,6,7,9,			

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 Data File : WLM-10pssn-180c-4jm.D
 Acq On : 12 Oct 2019 12:30
 Operator :
 Sample :
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0
 Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area#	Library/ID	Ref#	CAS#	Qual
			10,10A-DODECAHYDRO-1,4A,7-TRIMETHYL-, METHYL ESTER, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,7.ALPHA.,10A.ALPHA.)]- \$\$ ISODEXTROPINIC ACID METHYL ESTER			
			METHYL PIMARA-8,15-DIEN-18-OATE \$\$	466513	003582-26-1	60
			1-PHENANTHRENECARBOXYLIC ACID, 7-ETHENYL-1,2,3,4,4A,5,6,7,8,9,10,10A-DODECAHYDRO-1,4A,7-TRIMETHYL-, METHYL ESTER, [1R-(1.ALPHA.,4A.BETA.,7.BETA.,10A.ALPHA.)]- \$\$ METHYL 8,15-PIMARADIEN-18-OATE			
37	34.541	0.04	D:\DATABASE\DEMO.L			
			ABIETA-7,13-DIEN-18-OIC ACID \$\$	1-168420	000514-10-3	46
			PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO- \$\$			
			1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A.ALPHA.)]-			
			KAUR-16-EN-18-OIC ACID \$\$ KAUR-16-EN-18-OIC ACID, (4.BETA.)- \$\$ (-)-KAURMOIC ACID \$\$ (4-BETA.)-KAUR-16-EN-18-OIC ACID	168418	020316-84-1	15
			4B-[1,2,4]Triazole-3-thiol, 4-benzyl-5-furan-2-yl-	165414	999165-41-7	10
38	34.606	0.00	D:\DATABASE\DEMO.L			
			1-Hexadecanamine \$\$ Hexadecylamine \$\$ n-Cetylanine \$\$ n-Hexadecylamine	4902	000143-27-1	11
			2-METHOXY-4-(METHOXYMETHYL)-6-METHYLNICOITINONITRILE \$\$ PYRIDINE-3-CARBONITRILE, 2,4-DIMETHOXY-6-METHYL	7347	063644-84-8	10
			1-Tetradecanamine \$\$ Tetradecylamine \$\$ Armeen 14 \$\$ Myristylamine	4815	002016-42-4	10
39	34.650	0.00	D:\DATABASE\DEMO.L			
			2-METHOXY-4-(METHOXYMETHYL)-6-METHYLNICOITINONITRILE \$\$ PYRIDINE-3-CARBONITRILE, 2,4-DIMETHOXY-6-METHYL	7347	063644-84-8	22
			1-Hexadecanamine \$\$ Hexadecylamine \$\$ n-Cetylanine \$\$ n-Hexadecylamine	4902	000143-27-1	10
			4-BROMO-N-[(6-METHYL-2-PYRIDYL)AMINO]METHYL]PHTHALIMIDE \$\$ 5-BROMO-2-[[[(6-METHYL-2-PYRIDINYL)AMINO]METHYL]-1H-ISOINDOLE-1,3(2H)-DIONE	7473	999007-47-4	10
40	34.677	0.00	D:\DATABASE\DEMO.L			
			2-[(E)-{[(E)-2-[(E)-(2-HYDROXYPHENYL)METHYLIDENE]AMINO]PROPYL]IMINO]METHYL]PHENOL \$\$.ALPHA.,.ALPHA.'-(1-METHYLETHYLENEDIIMINO)DI-ORTHO-CRESOL \$\$.ALPHA.,.ALPHA.'-DIPROPYLENEDIINITRILODI-O-CRESOL \$\$ ALPHA.,ALPHA.'-(1-METHYLETHYLENEDIIMINO)D	45719	000094-91-7	25

Data Path : F:\DATA MS\daa\
 Data File : WLM-10psses-180c-4jm.D
 Acq On : 12 Oct 2019 12:30
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 Sample :
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

%#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			I-ORTHO-CRESOL			
			Morphinan-14-ol, 3-methoxy-17-meth	45783	001639-74-3	25
			yl- §§ (-)-14-Hydroxy-3-methoxy-17			
			-methylnorphinan §§ 3-Methoxy-17-m			
			ethylmorphinan-14-ol #			
			3-METHOXY-17-METHYLMORPHINAN-14-OL	45788	001639-74-3	25
			§§ MORPHINAN-14-OL, 3-METHOXY-17-			
			METHYL- §§ (-)-14-HYDROXY-3-METHOX			
			Y-17-METHYLMORPHINAN			
41	34.725	0.00	D:\DATABASE\DEMO.L			
			2H-3,9A-METHANO-1-BENZOXEPIN, OCTA	3110	005956-09-2	9
			HYDRO-2,2,5A,9-TETRAMETHYL-, (3R-(
			3.ALPHA.,5A.ALPHA.,9.ALPHA.,9A.ALP			
			HA.))- §§ .BETA.-AGAROFURAN, DIHYD			
			RO- §§ .BETA.-DIHYDROAGAROFURAN §§			
			2H-3,9A-METHANO-1-BENZOXEPIN, OCT			
			HYDRO-2,2,5A,9-TETRAMETHYL-			
42	34.785	0.01	D:\DATABASE\DEMO.L			
			2H-3,9A-METHANO-1-BENZOXEPIN, OCTA	3110	005956-09-2	9
			HYDRO-2,2,5A,9-TETRAMETHYL-, (3R-(
			3.ALPHA.,5A.ALPHA.,9.ALPHA.,9A.ALP			
			HA.))- §§ .BETA.-AGAROFURAN, DIHYD			
			RO- §§ .BETA.-DIHYDROAGAROFURAN §§			
			2H-3,9A-METHANO-1-BENZOXEPIN, OCT			
			HYDRO-2,2,5A,9-TETRAMETHYL-			
			Acetic acid, 4-(3-acetylamino-2-ox	4924	061172-74-5	7
			opropyl)phenyl ester §§ 4-[3-(Acet			
			ylamino)-2-oxopropyl]phenyl acetat			
			e #			
			Diethyl 3-chloro-2-hydroxypropylma	3235	999003-23-6	4
			lonate			
43	34.909	0.01	D:\DATABASE\DEMO.L			
			Diethyl 3-chloro-2-hydroxypropylma	3235	999003-23-6	9
			lonate			
			DIETHYL 2-(3-CHLORO-2-HYDROXYPROPY	3236	999003-23-7	9
			L)MALONATE §§ DIETHYL 3-CHLORO-2-H			
			YDROXYPROPYLMALONATE			
			2H-3,9A-METHANO-1-BENZOXEPIN, OCTA	3110	005956-09-2	6
			HYDRO-2,2,5A,9-TETRAMETHYL-, (3R-(
			3.ALPHA.,5A.ALPHA.,9.ALPHA.,9A.ALP			
			HA.))- §§ .BETA.-AGAROFURAN, DIHYD			
			RO- §§ .BETA.-DIHYDROAGAROFURAN §§			
			2H-3,9A-METHANO-1-BENZOXEPIN, OCT			
			HYDRO-2,2,5A,9-TETRAMETHYL-			
44	34.936	0.01	D:\DATABASE\DEMO.L			
			2-Propenamide, N-octyl-3-phenyl-	283082	055030-48-3	25
			§ (2E)-n-Octyl-3-phenyl-2-propenam			
			ide #			
			2-((E)-((E)-2-((E)-(2-HYDROXYPHE	45719	000094-91-7	25
			NYL)METHYLIDENE)AMINO)PROPYL)IMINO			
			]METHYL)PHENOL §§ .ALPHA.,.ALPHA.'			
			-(1-METHYLETHYLENEDIIMINO)DI-ORTHO			
			-CRESOL §§ .ALPHA.,.ALPHA.'-DIPROP			
			YLENEDINITRILODI-O-CRESOL §§ ALPHA			
			,ALPHA'-(1-METHYLETHYLENEDIIMINO)D			

Data File : W:\MSDCHEM\190074\jm.u
 Acq On : 12 Oct 2019 12:30
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 Sample :
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

Px#	RT	Area#	Library/ID	Ref#	CAS#	Qual
			I-ORTHO-CRESOL			
			(2E)-N-OCTYL-3-PHENYL-2-PROPENAMID	283089	055030-48-3	25
			E §§ 2-PROPENAMIDE, N-OCTYL-3-PHEN			
			YL- §§ N-N-OCTYL-3-PHENYLPROPENAMI			
			DE			
45	35.028	0.03	D:\DATABASE\DEMO.L			
			Benzene, (2,2-dimethoxyethyl)- §§	122348	000101-48-4	53
			Acetaldehyde, phenyl-, dimethyl ac			
			etal §§ .alpha.-Tolylaldehyde dima			
			thyl acetal §§ Hyacynth P			
			5,5-DIMETHYL-2-(TRIMETHYLSILYL)-1,	123410	999123-41-3	42
			2,3,4,4A,5,6,7-OCTAHYDRO-2-NAPHTHA			
			LENOL §§ 5,5-DIMETHYL-2-TRIMETHYLS			
			ILANYL-1,2,3,4,4A,5,6,7-OCTAHYDRO-			
			NAPHTHALEN-2-OL			
			t-Butyldimethyl(2-methylcyclohex-1	123280	999123-28-3	42
			-enylmethoxy)silane			
46	35.120	0.01	D:\DATABASE\DEMO.L			
			2-((E)-[[(E)-2-[(E)-(2-HYDROXYPHE	45719	000094-91-7	38
			NYL)METHYLIDENE]AMINO)PROPYL]IMINO			
			]METHYL)PHENOL §§ .ALPHA.,.ALPHA.'			
			-(1-METHYLETHYLENEDIIMINO)DI-ORTHO			
			-CRESOL §§ .ALPHA.,.ALPHA.'"-DIPROP			
			YLENEDINITRILODI-O-CRESOL §§ ALPHA			
			,ALPHA'"-(1-METHYLETHYLENEDIIMINO)D			
			I-ORTHO-CRESOL			
			Benzenepropionic acid, test-butyl d	123517	078324-01-3	10
			imethylsilyl ester §§ test-Butyl(d			
			imethyl)silyl 3-phenylpropanoate #			
			3-(3'-CHLOROPHENYL)-4-METHYL-.DELTA	427153	116350-75-5	9
			A.(4)-THIAZOLINE-2-THIONE			
47	35.141	0.01	D:\DATABASE\DEMO.L			
			2-((E)-[[(E)-2-[(E)-(2-HYDROXYPHE	45719	000094-91-7	41
			NYL)METHYLIDENE]AMINO)PROPYL]IMINO			
			]METHYL)PHENOL §§ .ALPHA.,.ALPHA.'			
			-(1-METHYLETHYLENEDIIMINO)DI-ORTHO			
			-CRESOL §§ .ALPHA.,.ALPHA.'"-DIPROP			
			YLENEDINITRILODI-O-CRESOL §§ ALPHA			
			,ALPHA'"-(1-METHYLETHYLENEDIIMINO)D			
			I-ORTHO-CRESOL			
			Andrographolide §§ 2(3H)-Furanone,	171071	005508-58-7	16
			3-[2-[decahydro-6-hydroxy-5-(hydro			
			oxymethyl)-5,8a-dimethyl-2-methyla			
			ne-1-naphthalenyl]ethylidene]dihyd			
			ro-4-hydroxy-			
			1-benzylindole	162408	999162-41-1	10
48	35.179	0.01	D:\DATABASE\DEMO.L			
			KAUR-16-EN-18-OIC ACID §§ KAUR-16-	168418	020316-84-1	53
			EN-18-OIC ACID, (4.BETA.)- §§ (-)-			
			KAURMENOIC ACID §§ (4-BETA)-KAUR-1			
			6-EN-18-OIC ACID			
			CIS-4-ETHOXY-B-METHYL-B-NITROSTYRE	428132	000000-00-0	46
			NE			
			cis-4-Ethoxy-b-methyl-b-nitrostyre	428021	999428-02-8	46
			ne			

Data Path : F:\DATA MS\data\
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 Sample :
 Misc :
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Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area%	Library/ID	Ref#	CAS#	Qual
49	35.201	0.01	D:\DATABASE\DEMO.L KAUR-16-EN-18-OIC ACID §§ KAUR-16- EN-18-OIC ACID, (4.BETA.)- §§ (-)- KAURNEOIC ACID §§ (4-BETA)-KAUR-1 6-EN-18-OIC ACID [1,2,4]Triazolo[1,5-a]pyrimidina-6 -Carboxylic acid, 5-ethyl-7-(4-flu orophenyl)-4,7-dihydro-, methyl es ter PYRIMIDINE, 2-(5-NITRO-3-THIENYL)- §§ 2-(5'-NITRO-3'-THIENYL)PYRIMID INE	168418	020316-84-1	30
428797					999428-80-4	46
428099					057059-17-3	27
50	35.303	0.02	D:\DATABASE\DEMO.L KAUR-16-EN-18-OIC ACID §§ KAUR-16- EN-18-OIC ACID, (4.BETA.)- §§ (-)- KAURNEOIC ACID §§ (4-BETA)-KAUR-1 6-EN-18-OIC ACID BUTYL 2-(METHYLAMINO)BENZOATE §§ A NTHRANILIC ACID, N-METHYL-, BUTYL ESTER §§ N-BUTYL O-METHYLAMINOBEHZ OATE [1,2,4]Triazolo[1,5-a]pyrimidina-6 -Carboxylic acid, 5-ethyl-7-(4-flu orophenyl)-4,7-dihydro-, methyl es ter	168418	020316-84-1	41
209236					015236-34-7	35
428797					999428-80-4	35
51	35.395	0.03	D:\DATABASE\DEMO.L 2-(ACETYLAMINO)PHENYL ACETATE §§ A CETIC ACID 2-ACETYLAMINO-PHENYL ES TER p-Heptyloxyaniline §§ 4-n-Heptylox vaniline 1,3,4-Thiadiazol-2-amine, 5-[[4-f luorophenyl)methyl]thio]-	227934	999227-93-7	47
228109					039905-44-7	47
228627					999228-63-0	46
52	35.492	1.11	D:\DATABASE\DEMO.L (+)-CIS-3,4,6,9-TETRAHYDRO-10-HYD ROXY-7-METHOXY-1,3,8-TRIMETHYL-1H- NAPHTHO[2,3-C]PYRAN-6,9-DIONE [(+)- -VENTILAGONE 7-METHYL ETHYL] ROBIN ACIDS Xanthen-9-one, 1-hydroxy-3,5,8-tri methoxy- §§ 5,8-Dimethylbellidifol in §§ 1-Hydroxy-3,5,8-trimethoxyxa nthen-9-one §§ 1-Hydroxy-3,5,8-tri methoxy-9H-xanthen-9-one #	504601	124821-09-6	90
504611					000000-00-0	70
504383					049399-09-9	52
53	35.660	0.12	D:\DATABASE\DEMO.L 1-PHENANTHRENECARBOXYLIC ACID, 7-E THENYL-1,2,3,4,4A,4B,5,6,7,8,10,10 A-DODECAHYDRO-1,4A,7-TRIMETHYL-, [1 1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,7. ALPHA.,10A.ALPHA.)]- §§ ISOPIMARIC ACID §§ PODOCARP-7-EN-15-OIC ACID , 13.BETA.-METHYL-13-VINYL- 3-(1-Amino-2-naphthyl)methylene)- 2-benzofuran-1(3H)-one peak 1	466436	005835-26-7	52
504402					999504-41-4	44

Data Path : F:\DATA MS\daa\
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Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			Androst-5-en-17-ol, 4,4-dimethyl-	513436	999513-44-9	41
4	35.757	0.26	D:\DATABASE\DEMO.L DEHYDROABIETIC ACID METHYL ABIETA-8,11,13-TRIEN-18-OAT E §§ 1-PHENANTHRENECARBOXYLIC ACID , 1,2,3,4,4A,9,10,10A-OCTAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, ME THYL ESTER, [1R-(1.ALPHA.,4A.BETA. ,10A.ALPHA.)]- §§ DEHYDROABIETIC A CID METHYL ESTER §§ METHYL DEHYDRO ABIETATE METHYL ABIETA-8,11,13-TRIEN-18-OAT E §§ 1-PHENANTHRENECARBOXYLIC ACID , 1,2,3,4,4A,9,10,10A-OCTAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, ME THYL ESTER, [1R-(1.ALPHA.,4A.BETA. ,10A.ALPHA.)]- §§ DEHYDROABIETIC A CID METHYL ESTER §§ METHYL DEHYDRO ABIETATE	464556 464549	000000-00-0 001235-74-1	97 90
5	35.903	0.12	D:\DATABASE\DEMO.L BENZ(A)ANTHRACENE PIMARA-8(14),13-DIEN-18-OIC ACID § § 1-PHENANTHRENECARBOXYLIC ACID, 7 -ETHENYL-1,2,3,4,4A,4B,5,6,7,9,10, 10A-DODECAHYDRO-1,4A,7-TRIMETHYL-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA., 7.BETA.,10A.ALPHA.)]- §§ (+)-PIMAR IC ACID §§ .ALPHA.-PIMARIC ACID Pimaric acid §§ 1-Phenanthrenecarb oxylie acid, 7-ethenyl-1,2,3,4,4a, 4b,5,6,7,9,10,10a-dodecahydro-1,4a, 7-trimethyl-, [1R-(1.alpha.,4a.be ta.,4b.alpha.,7.beta.,10a.alpha.)] - §§ Podocarp-8(14)-en-13-oic acid , 13.alpha.-methyl-13-vinyl- §§ D- pimaric acid	513655 504609	099707-96-7 000127-27-5	72 51
6	35.995	0.05	D:\DATABASE\DEMO.L Pimaric acid §§ 1-Phenanthrenecarb oxylie acid, 7-ethenyl-1,2,3,4,4a, 4b,5,6,7,9,10,10a-dodecahydro-1,4a, 7-trimethyl-, [1R-(1.alpha.,4a.be ta.,4b.alpha.,7.beta.,10a.alpha.)] - §§ Podocarp-8(14)-en-13-oic acid , 13.alpha.-methyl-13-vinyl- §§ D- pimaric acid Androst-5-en-17-ol, 4,4-dimethyl- ABIETA-7,13-DIEN-18-OIC ACID §§ 1- PHENANTHRENECARBOXYLIC ACID, 1,2,3 ,4,4A,4B,5,6,10,10A-DECAHYDRO- §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, [1 R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A .ALPHA.)]-	466434 513436 168419	000127-27-5 999513-44-9 000514-10-3	49 50 44
7	36.022	0.04	D:\DATABASE\DEMO.L			

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 ALS Vial : 2 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			Palustric acid 66 Podocarpa-8,13-dien-15-oic acid, 13-isopropyl- 66 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,5,6,8,9,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, (1R)-(1.alpha.,4a.beta.,10a.alpha.))- 66 8,13-Abietadien-18-oic acid Androst-5-en-17-ol, 4,4-dimethyl- 513436 999513-44-9 49 1-PHENANTHRENECARBOXYLIC ACID, 7-ETHENYL-1,2,3,4,4A,4B,5,6,7,8,10,10A-DODECAHYDRO-1,4A,7-TRIMETHYL-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,7.ALPHA.,10A.ALPHA.)]- 66 ISOPIMARIC ACID 66 PODOCARP-7-EN-15-OIC ACID , 13.BETA.-METHYL-13-VINYL-			
3	36.092	0.13	D:\DATABASE\DEMO.L Palustric acid 66 Podocarpa-8,13-dien-15-oic acid, 13-isopropyl- 66 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,5,6,8,9,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, (1R)-(1.alpha.,4a.beta.,10a.alpha.))- 66 8,13-Abietadien-18-oic acid Pimaric acid 66 1-Phenanthrenecarboxylic acid, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,8,9,10,10a-dodecahydro-1,4a,7-trimethyl-, [1R-(1.alpha.,4a.beta.,4b.alpha.,7.beta.,10a.alpha.)]- 66 Podocarp-8(14)-en-15-oic acid , 13.alpha.-methyl-13-vinyl- 66 D-pimaric acid 3-DIETHYLBORYL-2-TRIMETHYLGERMANYL -2-PENTENE 250295 000000-00-0 38	513439	001945-53-5	64
9	36.157	0.03	D:\DATABASE\DEMO.L 1H-NAPHTHO(2,3-C)PYRAM-5,10-DIONE, 3,4-DIHYDRO-7,9-DIMETHOXY-1,3-DIMETHYL-, CIS-(+,-)- 66 (+,-)-CIS-7,9-DIMETHOXY-1,3-DIMETHYL-3,4,5,10-TETRAHYDRONAPHTHO(2,3-C)PYRAM-5,10-DIONE 466436 005835-26-7 48 1-PHENANTHRENECARBOXYLIC ACID, 7-ETHENYL-1,2,3,4,4A,4B,5,6,7,8,10,10A-DODECAHYDRO-1,4A,7-TRIMETHYL-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,7.ALPHA.,10A.ALPHA.)]- 66 ISOPIMARIC ACID 66 PODOCARP-7-EN-15-OIC ACID , 13.BETA.-METHYL-13-VINYL- Palustric acid 66 Podocarpa-8,13-dien-15-oic acid, 13-isopropyl- 66 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,5,6,8,9,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, (1R)-(1.alpha.,4a.beta.,10a.alpha.))- 66 8,13-Abietadien-18-oic acid	513558	084018-43-9	72
3	36.184	0.04	D:\DATABASE\DEMO.L Palustric acid 66 Podocarpa-8,13-dien-15-oic acid, 13-isopropyl- 66 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,5,6,8,9,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, (1R)-(1.alpha.,4a.beta.,10a.alpha.))- 66 8,13-Abietadien-18-oic acid	513439	001945-53-5	53

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Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

#	RT	Area	Library/ID	Ref#	CAS#	Qual
			ien-15-oic acid, 13-isopropyl- §§ 1-Phenanthrenecarboxylic acid, 1,2, 3,4,4a,5,6,9,10,10a-decahydro-1,4 a-dimethyl-7-(1-methylethyl)-, (1R -(1.alpha.,4a.beta.,10a.alpha.))- §§ 8,13-Abietadien-18-oic acid Androst-5-en-17-ol, 4,4-dimethyl- 513436 899513-44-9 38 1-PHENANTHRENECARBOXYLIC ACID, 7-E 466436 005835-26-7 38 THENYL-1,2,3,4,4A,4B,5,6,7,8,10,10 A-DODECAHYDRO-1,4A,7-TRIMETHYL-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,7. ALPHA.,10A.ALPHA.)]- §§ ISOPIMARIC ACID §§ PODOCARP-7-EN-15-OIC ACID , 13.BETA.-METHYL-13-VINYL-			
1	36.384	0.19	D:\DATABASE\DEMO.L METHYL ABIETA-7,13-DIEN-18-CATE §§ 258918 000127-25-3 95 1-PHENANTHRENECARBOXYLIC ACID, 1, 2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1 4A-DIMETHYL-7-(1-METHYLETHYL)-, M ETHYL ESTER, [1R-(1.ALPHA.,4A.BETA. .,4B.ALPHA.,10A.ALPHA.)]- §§ ABALY N §§ ABIETIC ACID METHYL ESTER Methyl abietate §§ 1-Phenanthrene- 258889 000127-25-3 95 carboxylic acid, 1,2,3,4,4a,4b,5,6, 10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, methyl ester, [1R -(1.alpha.,4a.beta.,4b.alpha.,10a. alpha.)]- §§ Podocarpa-7,13-dien-1 5-oic acid, 13-isopropyl-, methyl ester §§ Abalyn METHYL ABIETA-7,13-DIEN-18-CATE §§ 480551 000127-25-3 94 1-PHENANTHRENECARBOXYLIC ACID, 1, 2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1 4A-DIMETHYL-7-(1-METHYLETHYL)-, M ETHYL ESTER, [1R-(1.ALPHA.,4A.BETA. .,4B.ALPHA.,10A.ALPHA.)]- §§ ABALY N §§ ABIETIC ACID METHYL ESTER			
2	36.605	0.37	D:\DATABASE\DEMO.L KAUR-16-EN-18-OIC ACID §§ KAUR-16- 168418 020316-84-1 87 EN-18-OIC ACID, (4.BETA.)- §§ (-)- KAURMENOIC ACID §§ (4-BETA.)-KAUR-1 6-EN-18-OIC ACID Palustric acid §§ Podocarpa-8,13-d 513439 001945-53-5 70 ien-15-oic acid, 13-isopropyl- §§ 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,5,6,9,10,10a-decahydro-1,4 a-dimethyl-7-(1-methylethyl)-, (1R -(1.alpha.,4a.beta.,10a.alpha.))- §§ 8,13-Abietadien-18-oic acid PIMARA-8(14),15-DIEN-18-OIC ACID § 504608 000127-27-5 46 § 1-PHENANTHRENECARBOXYLIC ACID, 7 -ETHENYL-1,2,3,4,4A,4B,5,6,7,9,10, 10A-DODECAHYDRO-1,4A,7-TRIMETHYL-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA., 7.BETA.,10A.ALPHA.)]- §§ (+)-PIMAR IC ACID §§ .ALPHA.-PIMARIC ACID			

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 disc :
 ALS Vial : 2 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

#	RT	Area%	Library/ID	Ref#	CAS#	Qual
3	36.746	0.33	D:\DATABASE\DEMO.L 1H-NAPHTHO(2,3-C)PYRAM-5,10-DICONE, 3,4-DIHYDRO-7,9-DIMETHOXY-1,3-DIM ETHYL-, TRANS-(+)-)- §§ (+,-)-DEO XYQUINONE A DIMETHYL ETHER §§ (+,-)-TRANS-7,9-DIMETHOXY-1,3-DIMETHYL -3,4,5,10-TETRAHYDRONAPHTHO(2,3-C) PYRAM-5,10-DICONE Palustric acid §§ Podocarpa-8,13-d ien-15-oic acid, 13-isopropyl- §§ 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,5,6,9,10,10a-Decahydro-1,4 a-dimethyl-7-(1-methylethyl)-, [1R -(1.alpha.,4a.beta.,10a.alpha.)]- §§ 8,13-Abietadien-18-oic acid Pimaric acid §§ 1-Phenanthrenecarb oxyllic acid, 7-ethenyl-1,2,3,4,4a, 4b,5,6,7,9,10,10a-dodecahydro-1,4a ,7-trimethyl-, [1R-(1.alpha.,4a.be ta.,4b.alpha.,7.beta.,10a.alpha.)] - §§ Podocarp-8(14)-en-15-oic acid , 13.alpha.-methyl-13-vinyl- §§ D- pimaric acid	513557	084018-44-0	91
4	36.837	0.07	D:\DATABASE\DEMO.L 1H-NAPHTHO(2,3-C)PYRAM-5,10-DICONE, 3,4-DIHYDRO-7,9-DIMETHOXY-1,3-DIM ETHYL-, CIS-(+)-)- §§ (+,-)-CIS-7 ,9-DIMETHOXY-1,3-DIMETHYL-3,4,5,10 -TETRAHYDRONAPHTHO(2,3-C)PYRAM-5,1 0-DICONE 1H-NAPHTHO(2,3-C)PYRAM-5,10-DICONE, 3,4-DIHYDRO-7,9-DIMETHOXY-1,3-DIM ETHYL-, TRANS-(+)-)- §§ (+,-)-DEO XYQUINONE A DIMETHYL ETHER §§ (+,-)-TRANS-7,9-DIMETHOXY-1,3-DIMETHYL -3,4,5,10-TETRAHYDRONAPHTHO(2,3-C) PYRAM-5,10-DICONE Abietic acid §§ 1-Phenanthrenecarb oxyllic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- §§ Podoc arpa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid	513558	084018-43-9	91
5	37.037	1.15	D:\DATABASE\DEMO.L ABIETA-7,13-DIEN-18-OIC ACID §§ 1- PHENANTHRENECARBOXYLIC ACID, 1,2,3 ,4,4A,4B,5,6,10,10A-DECAHYDRO- §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, [1 R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A .ALPHA.)]- ABIETA-8,11,13-TRIEN-18-OIC ACID § § PODOCARPA-8,11,13-TRIEN-15-SAEUR E, 13-ISOPROPYL- Abietic acid §§ 1-Phenanthrenecarb	168419	000514-10-3	60
				503106	999503-11-8	56
				513344	000514-10-3	55

DATA PATH : F:\DATA MS\GMS\
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Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethyl-ethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- \$S Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- \$S L-abiatic acid			
66	37.242	0.63	D:\DATABASE\DEMO.L ABIETA-7,13-DIEN-18-OIC ACID \$S 1- PHENANTHRENECARBOXYLIC ACID, 1,2,3 ,4,4A,4B,5,6,10,10A-DECAHYDRO- \$S 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, [1 R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A .ALPHA.)]- 18-2,10A-ETHANOPHENANTHRENE, KAUR- 16-EN-18-OIC ACID DERIV. \$S KAUR-1 6-EN-18-OIC ACID \$S KAUR-16-EN-18- OIC ACID, (4.ALPHA.)- \$S (-)-ENT-K AUR-16-EN-18-OIC ACID Abiatic acid \$S 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethyl-ethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- \$S Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- \$S L-abiatic acid	168419	000514-10-3	78
			Abiatic acid \$S 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethyl-ethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- \$S Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- \$S L-abiatic acid	513651	006730-83-2	60
			Abiatic acid \$S 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethyl-ethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- \$S Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- \$S L-abiatic acid	513344	000514-10-3	55
67	37.405	0.21	D:\DATABASE\DEMO.L ABIETA-7,13-DIEN-18-OIC ACID \$S 1- PHENANTHRENECARBOXYLIC ACID, 1,2,3 ,4,4A,4B,5,6,10,10A-DECAHYDRO- \$S 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, [1 R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A .ALPHA.)]- Abiatic acid \$S 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethyl-ethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- \$S Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- \$S L-abiatic acid	168420	000514-10-3	92
			Abiatic acid \$S 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethyl-ethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- \$S Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- \$S L-abiatic acid	513378	000514-10-3	91
			ABIETA-7,13-DIEN-18-OIC ACID \$S 1- PHENANTHRENECARBOXYLIC ACID, 1,2,3 ,4,4A,4B,5,6,10,10A-DECAHYDRO- \$S 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, [1 R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A .ALPHA.)]-	168419	000514-10-3	83
68	37.486	0.18	D:\DATABASE\DEMO.L 1,4-DIHYDRO-9-ISOPROPYLIDENE-5,6,7 ,8-TETRAMETHOXY-1,4-METHANONAPHTHA LENE 18-2,10A-ETHANOPHENANTHRENE, KAUR-	513581	000000-00-0	90
			18-2,10A-ETHANOPHENANTHRENE, KAUR-	513651	006730-83-2	64

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Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

#	RT	Area	Library/ID	Ref#	CAS#	Qual
			16-EN-18-OIC ACID DERIV. §§ KAUR-1 6-EN-18-OIC ACID §§ KAUR-16-EN-18- OIC ACID, (4.ALPHA.)- §§ (-)-ENT-K AUR-16-EN-18-OIC ACID Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- §§ Podo caspa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid	513344	000514-10-3	60
59	37.685	2.43	D:\DATABASE\DEMO.L Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- §§ Podo caspa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- §§ Podo caspa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- §§ Podo caspa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid	513378	000514-10-3	99
			Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- §§ Podo caspa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- §§ Podo caspa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid	513347	000514-10-3	93
			Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- §§ Podo caspa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid	513344	000514-10-3	90
70	38.490	0.15	D:\DATABASE\DEMO.L Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- §§ Podo caspa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- §§ Podo caspa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid .beta.-Pimaric acid §§ .delta.6,8(14)-Abietadienoic acid §§ 1-Pimari c acid §§ 1-Sapietic acid	513378	000514-10-3	91
			Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- §§ Podo caspa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- §§ Podo caspa-7,13-dien-15-oic acid, 13-is opropyl- §§ L-abietic acid	513347	000514-10-3	86
			.beta.-Pimaric acid §§ .delta.6,8(14)-Abietadienoic acid §§ 1-Pimari c acid §§ 1-Sapietic acid	513374	000079-54-9	83
71	38.836	0.04	D:\DATABASE\DEMO.L Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta	513378	000514-10-3	90

Data Path : F:\DATA MS\data\
 Data File : WLM-10preeen-180c-4jm.D
 Acq On : 12 Oct 2019 12:30
 Operator :
 Sample :
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area#	Library/ID	Ref#	CAS#	Qual
			a.,4b.alpha.,10a.alpha.))- \$S Podo caspa-7,13-dien-15-oid acid, 13-is opropyl- \$S L-abiatic acid			
			Abiatic acid \$S 1-Phenanthrenecarb oxylie acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- \$S Podo caspa-7,13-dien-15-oid acid, 13-is opropyl- \$S L-abiatic acid	513344	000514-10-3	84
			Abiatic acid \$S 1-Phenanthrenecarb oxylie acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- \$S Podo caspa-7,13-dien-15-oid acid, 13-is opropyl- \$S L-abiatic acid	513347	000514-10-3	55
72	39.004	0.09	D:\DATABASE\DEMO.L ABIETA-7,13-DIEN-18-OIC ACID \$S 1- PHENANTHRENECARBOXYLIC ACID, 1,2,3 ,4,4A,4B,5,6,10,10A-DECAHYDRO- \$S 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, [1 R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A .ALPHA.)]-	168420	000514-10-3	55
			ABIETA-7,13-DIEN-18-OIC ACID \$S 1- PHENANTHRENECARBOXYLIC ACID, 1,2,3 ,4,4A,4B,5,6,10,10A-DECAHYDRO- \$S 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, [1 R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A .ALPHA.)]-	168419	000514-10-3	55
			6-Hydroxy-7-isopropyl-1,4a-dimethy l-1,2,3,4,4a,9,10,10a-octahydro-1- phenanthrenemethanol, (1.alpha., 4 a.beta., 10a.alpha.)- \$S Abiata-8,1 1,13-triene-12,18-diol #	513428	022595-48-8	53

Data Path : F:\DATA MS\daa\
 Data File : WLM-200c-10pressen-1jmu.D
 Acq On : 9 Oct 2019 16:21
 Operator :
 Sample :
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.a

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
1	1.967	0.40	D:\DATABASE\DEMO.L Acetic acid, hydroxy- §§ Glycolic acid §§ .alpha.-Hydroxyacetic acid §§ Glycollic acid GLYCOLIC-ACID §§ HYDROXY-ACETIC ACID §§ HYDROXYACETIC ACID ACETIC ACID, HYDROXY- §§ 2-HYDROXY ACETIC ACID §§ .ALPHA.-HYDROXYACETIC ACID §§ ACETIC ACID, HYDROXY	5206	000079-14-1	4
2	2.135	0.09	D:\DATABASE\DEMO.L Pentane, 2,4-dimethyl- §§ 2,4-Dimethylpentane PENTANE, 2,4-DIMETHYL- §§ 2,4-DIMETHYLPENTANE §§ PENTANE, 2,4-DIMETHYL PENTANE, 2,4-DIMETHYL- §§ 2,4-DIMETHYLPENTANE §§ PENTANE, 2,4-DIMETHYL	18750	000108-08-7	87
3	2.205	10.43	D:\DATABASE\DEMO.L Hexane, 3-methyl- §§ 2-Ethylpentane §§ 3-Methylhexane Hexane, 3-methyl- §§ 2-Ethylpentane §§ 3-Methylhexane Hexane, 3-methyl- §§ 2-Ethylpentane §§ 3-Methylhexane	18811	000589-34-4	72
4	2.243	4.23	D:\DATABASE\DEMO.L Cyclopentane, 1,3-dimethyl- §§ 1,3-Dimethylcyclopentane Cyclopentane, 1,3-dimethyl-, cis- §§ cis-1,3-Dimethylcyclopentane §§ 1,3-Dimethylcyclopentane cis §§ 1,3-Dimethylcyclopentane # 1,3-DIMETHYLCYCLOPENTANE §§ CYCLOPENTANE, 1,3-DIMETHYL-, CIS- §§ 1,3-DIMETHYLCYCLOPENTANE (CIS) §§ 1,3-DIMETHYLCYCLOPENTANE CIS	101343	002453-00-1	91
5	2.335	7.19	D:\DATABASE\DEMO.L CYCLOHEXANE, METHYL- §§ METHYLCYCLOHEXANE §§ 1-METHYLCYCLOHEXANE §§ CYCLOHEXANE, METHYL- §§ METHYLCYCLOHEXANE §§ 1-METHYLCYCLOHEXANE §§ CYCLOHEXANE, METHYL- §§ METHYLCYCLOHEXANE §§ 1-METHYLCYCLOHEXANE §§ CYCLOHEXANE, METHYL	141469	000108-87-2	96
6	2.421	70.31	D:\DATABASE\DEMO.L BENZENE, METHYL- §§ METHYLBENZENE §§ TOLUENE §§ ANTISAL 1A Toluene §§ Benzene, methyl §§ Methacide §§ Methylbenzene BENZENE, METHYL- §§ METHYLBENZENE §§ TOLUENE §§ ANTISAL 1A	158622	000108-88-3	91

Data Path : F:\DATA MS\daa\
 Data File : WLM-200c-10pssan-1jmu.D
 Acq On : 9 Oct 2019 16:21
 Operator :
 Sample :
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

%#	RT	Area#	Library/ID	Ref#	CAS#	Qual
7	2.751	1.09	D:\DATABASE\DEMO.L Cyclohexane, ethyl- Hexane Cyclohexane, ethyl- Hexane CYCLOHEXANE, ETHYL- HEXANE	141508 141506 141561	001678-91-7 001678-91-7 001678-91-7	93 93 93
8	33.499	0.16	D:\DATABASE\DEMO.L 5-HYDROXY-1,3,4-TRIMETHOXY-7-METHY L-6-PROPARGYLNAPHTHALENE ANDROST-5-ENE, 4,4-DIMETHYL-, (13- ALPHA.)- -ANDROST-5-ENE KAURA-5,16-DIEN-18-OL 6-DIEN-18 (OR 19)-OL	492890 492912 492904	000000-00-0 073495-94-0 023837-99-2	90 90 51
9	33.871	0.09	D:\DATABASE\DEMO.L Androst-2,16-diene 1-Methyl-10,18-bisnorabieta-8,11,1 3-triene 10,13-DIMETHYL-4,5,6,7,8,9,10,11,1 2,13,14,15-DODECAHYDRO-1H-CYCLOPEN TA[A]PHENANTHRENE -DIENE	466169 466158 466180	999466-17-7 999466-16-6 999466-18-8	95 94 91
10	35.503	1.06	D:\DATABASE\DEMO.L (+)-CIS-3,4,6,9-TETRAHYDRO-10-HYD ROXY-7-METHOXY-1,3,8-TRIMETHYL-1H- NAPHTHO[2,3-C]PYRAN-6,9-DIONE[(+)- -VENTILAGONE 7-METHYL ETHYL] BENZ[A]ANTHRACENE Xanthen-9-one, 1-Hydroxy-3,5,8-tri methoxy- in nthen-9-one methoxy-9H-xanthen-9-one	504601 513655 504583	124821-09-6 099707-96-7 049599-09-9	90 87 55
11	35.665	0.08	D:\DATABASE\DEMO.L O-HYDROGEN PERDEUTERIO HEXADECANOI C ACID Phenol, 2,4-bis(1-phenylethyl)- 2,4-Bis(1-phenylethyl)phenol 4-METHYL-2-PHENYL[1]BENZOPYRANO- ,4-C]PYRIDIN-5-ONE	504545 504578 504527	039756-30-4 002769-94-0 000000-00-0	53 51 44
12	35.757	0.18	D:\DATABASE\DEMO.L DEHYDROABIETIC ACID 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, methyl ester, [1R-(1.alpha.,4a.beta.,10a. alpha.)]- en-15-oic acid, 13-isopropyl-, met hyl ester METHYL ABIETA-8,11,13-TRIEN-18-OAT 7	464556 464538 464550	000000-00-0 001235-74-1	97 95 95

Data Path : F:\DATA MS\data\
 Data File : WLM-200c-10pssan-1jma.D
 Acq On : 9 Oct 2019 16:21
 Operator :
 Sample :
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area#	Library/ID	Ref#	CAS#	Qual
			, 1,2,3,4,4A,5,10,10A-OCTAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, METHYL ESTER, [1R-(1.ALPHA.,4A.BETA.,10A.ALPHA.)]- §§ DEHYDROABIETIC ACID METHYL ESTER §§ METHYL DEHYDROABIETATE			
13	36.389	0.06	D:\DATABASE\DEMO.L METHYL ABIETA-7,13-DIEN-18-OATE §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, METHYL ESTER, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A.ALPHA.)]- §§ ABALYN §§ ABIETIC ACID METHYL ESTER	480551	000127-25-3	93
			METHYL ABIETA-7,13-DIEN-18-OATE §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, METHYL ESTER, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A.ALPHA.)]- §§ ABALYN §§ ABIETIC ACID METHYL ESTER	238918	000127-25-3	92
			Methyl abietate §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, methyl ester, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl-, methyl ester §§ Abalyn	238889	000127-25-3	92
14	36.610	0.15	D:\DATABASE\DEMO.L ROSIN ACIDS	504611	000000-00-0	83
			PHENOL, 5-(2-(3-HYDROXY-4-METHOXYPHENYL)ETHENYL)-2,3-DIMETHOXY-, (Z) - §§ 2,3-DIMETHOXY-5-(2-(3-HYDROXY-4-METHOXYPHENYL)ETHENYL)PHENOL (Z) §§ COMBRETASTATIN A3	513563	111394-45-7	78
			FINE ROSIN MIXTURE	504612	000000-00-0	78
15	36.756	0.25	D:\DATABASE\DEMO.L Fimanic acid §§ 1-Phenanthrenecarboxylic acid, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,9,10,10a-dodecahydro-1,4a,7-trimethyl-, [1R-(1.alpha.,4a.beta.,4b.alpha.,7.beta.,10a.alpha.)]- §§ Podocarp-8(14)-en-15-oic acid, 13.alpha.-methyl-13-vinyl- §§ D-pinonic acid	466434	000127-27-5	84
			1-PHENANTHRENECARBOXYLIC ACID, 7-ETHENYL-1,2,3,4,4A,4B,5,6,7,8,10,10A-DODECAHYDRO-1,4A,7-TRIMETHYL-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,7.ALPHA.,10A.ALPHA.)]- §§ ISOPIMARIC ACID §§ PODOCARP-7-EN-15-OIC ACID, 13.BETA.-METHYL-13-VINYL-	466436	005833-26-7	59
			KAUR-16-EN-18-OIC ACID §§ KAUR-16-EN-18-OIC ACID, (4.BETA.)- §§ (-)-KAURMENOIC ACID §§ (4-BETA.)-KAUR-1	168418	020316-84-1	58

Data Path : F:\DATA MS\data\
 Data File : WLM-200c-10pssan-1jma.D
 Acq On : 9 Oct 2019 16:21
 Operator :
 Sample :
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

k#	RT	Area#	Library/ID	Ref#	CAS#	Qual
			6-EN-18-OIC ACID			
16	37.048	1.10	D:\DATABASE\DEMO.L ABIETA-8,11,13-TRIEN-18-OIC ACID § § PODOCARPA-8,11,13-TRIEN-15-SAEUR E, 13-ISOPROPYL- 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,9,10,10A-OCTAHYDRO-1,4A-DI METHYL-7-(1-METHYLETHYL)-, [1R-(1. ALPHA.,4A.BETA.,10A.ALPHA.)]- § § (-)-DEHYDROABIETIC ACID § § 1,2,3,4, 4A,9,10,10A-OCTAHYDRO-1,4A-DIMETHY L-7-(1-METHYLETHYL)-1-PHENANTHRENE CARBOXYLIC ACID 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, [1R-(1. alpha.,4a.beta.,10a.alpha.)]- § § P odocarpa-8,11,13-trien-15-oic acid , 13-isopropyl- § § Abieta-8,11,13- trien-18-oic acid § § Abietic acid, dehydro-	503106	999503-11-8	72
			503110	001740-19-8	70	
			503093	001740-19-8	70	
17	37.242	0.69	D:\DATABASE\DEMO.L Abietic acid § § 1-Phenanthrenecarb oxylie acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- § § Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- § § 1-abietic acid ABIETA-7,13-DIEN-18-OIC ACID § § 1- PHENANTHRENECARBOXYLIC ACID, 1,2,3 ,4,4A,4B,5,6,10,10A-DECAHYDRO- § § 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, [1 R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A .ALPHA.)]- KAURA-9(11),16-DIEN-18-OIC ACID, (§ § 4.ALPHA.)- § § (-)-KAUR-9(11),16-DI EN-19-OIC ACID § § GRANDIFLORENIC A CID § § KAURA-5,16-DIEN-18 (OR 19)-O IC ACID	513344	000514-10-3	46
			168419	000514-10-3	45	
			503118	022338-67-6	42	
18	37.707	2.41	D:\DATABASE\DEMO.L Abietic acid § § 1-Phenanthrenecarb oxylie acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- § § Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- § § 1-abietic acid Abietic acid § § 1-Phenanthrenecarb oxylie acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- § § Podo carpa-7,13-dien-15-oic acid, 13-is	513378	000514-10-3	99
			513347	000514-10-3	94	

Data Path : F:\DATA MS\daa\
 Data File : WLM-200c-10pssan-1jms.D
 Acq On : 9 Oct 2019 16:21
 Operator :
 Sample :
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex

Integration Events: ChemStation Integrator - autoint1.e

#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			opropyl- 66 L-abiatic acid			
			Abiatic acid 66 1-Phenanthrenecarb	513344	000514-10-3	93
			oxylic acid, 1,2,3,4,4a,4b,5,6,10,			
			10a-decahydro-1,4a-dimethyl-7-(1-m			
			ethylethyl)-, [1R-(1.alpha.,4a.bet			
			a.,4b.alpha.,10a.alpha.)]- 66 Podoc			
			arpa-7,13-dien-13-oic acid, 13-is			
			opropyl- 66 L-abiatic acid			

Data Path : F:\DATA MS\daa\
 Data File : WLM-200c-10pssan-2jm.D
 Acq On : 12 Oct 2019 10:27
 Operator :
 Sample :
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

k#	RT	Area#	Library/ID	Ref#	CAS#	Qual
1	1.962	4.04	D:\DATABASE\DEMO.L Methyl Alcohol §§ Methanol §§ Carb inol §§ Methyl hydroxide METHANOL §§ HYDROXYMETHANE §§ ALCO HOL, METHYL §§ ALCOOL METHYLIQUE Methyl Alcohol §§ Methanol §§ Carb inol §§ Methyl hydroxide	3073	000067-56-1	2
			METHANOL §§ HYDROXYMETHANE §§ ALCO HOL, METHYL §§ ALCOOL METHYLIQUE	3075	000067-56-1	2
			Methyl Alcohol §§ Methanol §§ Carb inol §§ Methyl hydroxide	3072	000067-56-1	2
2	2.135	0.12	D:\DATABASE\DEMO.L Pentane, 2,4-dimethyl- §§ 2,4-Dime thylpentane Pentane, 2,4-dimethyl- §§ 2,4-Dime thylpentane PENTANE, 2,4-DIMETHYL- §§ 2,4-DIME THYLPENTANE §§ PENTANE, 2,4-DIMETH YL	18753	000108-08-7	91
			Pentane, 2,4-dimethyl- §§ 2,4-Dime thylpentane	18799	000108-08-7	90
			PENTANE, 2,4-DIMETHYL- §§ 2,4-DIME THYLPENTANE §§ PENTANE, 2,4-DIMETH YL	19001	000108-08-7	90
3	2.200	10.42	D:\DATABASE\DEMO.L HEXANE, 3-METHYL- §§ 3-METHYLHEXAN E §§ 2-ETHYLPENTANE §§ HEXANE, 3-M ETHYL HEPTANE §§ ALIPHATIC HYDROCARBON § § DIPROPYL METHANE §§ DIPROPYLMETH ANE HEXANE, 3-METHYL- §§ 3-METHYLHEXAN E §§ 2-ETHYLPENTANE §§ HEXANE, 3-M ETHYL	18994	000589-34-4	64
			HEPTANE §§ ALIPHATIC HYDROCARBON § § DIPROPYL METHANE §§ DIPROPYLMETH ANE	18986	000142-82-5	62
			HEXANE, 3-METHYL- §§ 3-METHYLHEXAN E §§ 2-ETHYLPENTANE §§ HEXANE, 3-M ETHYL	18992	000589-34-4	58
4	2.243	4.11	D:\DATABASE\DEMO.L 1,3-DIMETHYLCYCLOPENTANE §§ CYCLOP ENTANE, 1,3-DIMETHYL-, CIS- §§ 1,3 -DIMETHYLCYCLOPENTANE (CIS) §§ 1,3 -DIMETHYLCYCLOPENTANE CIS Cyclopentane, 1,3-dimethyl- §§ 1,3 -Dimethylcyclopentane Cyclopentane, 1,3-dimethyl-, cis- §§ cis-1,3-Dimethylcyclopentane §§ 1,3-Dimethylcyclopentane cis §§ 1 ,3-Dimethylcyclopentane #	62286	002532-58-3	91
			Cyclopentane, 1,3-dimethyl- §§ 1,3 -Dimethylcyclopentane	101343	002453-00-1	91
			Cyclopentane, 1,3-dimethyl-, cis- §§ cis-1,3-Dimethylcyclopentane §§ 1,3-Dimethylcyclopentane cis §§ 1 ,3-Dimethylcyclopentane #	62231	002532-58-3	91
5	2.335	6.52	D:\DATABASE\DEMO.L CYCLOHEXANE, METHYL- §§ METHYLCYCL HEXANE §§ 1-METHYLCYCLOHEXANE §§ CYCLOHEXANE, METHYL CYCLOHEXANE, METHYL- §§ METHYLCYCL HEXANE §§ 1-METHYLCYCLOHEXANE §§ CYCLOHEXANE, METHYL CYCLOHEXANE, METHYL- §§ METHYLCYCL HEXANE §§ 1-METHYLCYCLOHEXANE §§ CYCLOHEXANE, METHYL	141469	000108-87-2	96
			CYCLOHEXANE, METHYL- §§ METHYLCYCL HEXANE §§ 1-METHYLCYCLOHEXANE §§ CYCLOHEXANE, METHYL	141470	000108-87-2	95
			CYCLOHEXANE, METHYL- §§ METHYLCYCL HEXANE §§ 1-METHYLCYCLOHEXANE §§ CYCLOHEXANE, METHYL	141467	000108-87-2	95
6	2.421	62.65	D:\DATABASE\DEMO.L Toluene §§ Benzene, methyl §§ Meth acide §§ Methylbenzene Toluene §§ Benzene, methyl §§ Meth acide §§ Methylbenzene BENZENE, METHYL- §§ METHYLBENZENE §§ TOLUENE §§ ANTISAL 1A	158580	000108-88-3	91
			Toluene §§ Benzene, methyl §§ Meth acide §§ Methylbenzene	158579	000108-88-3	91
			BENZENE, METHYL- §§ METHYLBENZENE §§ TOLUENE §§ ANTISAL 1A	158625	000108-88-3	91

Data File : WLM-2000c-10pssan-2jm.D
 Acq On : 12 Oct 2019 10:27
 Operator :
 Sample :
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

#	RT	Area%	Library/ID	Ref#	CAS#	Qual
7	2.745	1.20	D:\DATABASE\DEMO.L CYCLOHEXANE, ETHYL- §§ ETHYLCYCLOH EKANE §§ ETHYL CYCLOHEXANE §§ ETHY LCYCLOHEXAN CYCLOHEXANE, ETHYL- §§ ETHYLCYCLOH EKANE §§ ETHYL CYCLOHEXANE §§ ETHY LCYCLOHEXAN CYCLOHEXANE, ETHYL- §§ ETHYLCYCLOH EKANE §§ ETHYL CYCLOHEXANE §§ ETHY LCYCLOHEXAN	141362	001678-91-7	81
8	2.870	0.56	D:\DATABASE\DEMO.L BENZENE, METHYL- §§ METHYLBENZENE §§ TOLUENE §§ ANTISAL 1A 1,3,5-CYCLOHEPTATRIENE §§ CYCLOHEP TA-1,3,5-TRIENE §§ CYCLOHEPTATRIEN E §§ CYCLOHEPTATRIENE [UN2603] [FL AMMABLE LIQUID] 1,3,5-CYCLOHEPTATRIENE §§ CYCLOHEP TA-1,3,5-TRIENE §§ CYCLOHEPTATRIEN E §§ CYCLOHEPTATRIENE [UN2603] [FL AMMABLE LIQUID]	158623 158637 158604	000108-88-3 000544-25-2 000544-25-2	90 90 87
9	17.309	0.03	D:\DATABASE\DEMO.L 2H-2,4a-Methanonaphthalene, 1,3,4, 5,6,7-hexahydro-1,1,3,5-tetramethy l-, (2S)- §§ 2H-2,4a-Methanonaphth alene, 1,3,4,5,6,7-hexahydro-1,1,3, 5-tetramethyl-, (2S,4aR)-(-)- §§ Isolongifolane §§ (-)-Isolongifoli ne 2H-2,4A-METHANONAPHTHALENE, 1,3,4, 5,6,7-HEXAHYDRO-1,1,3,5-TETRAMETHY L-, (2S)- §§ (-)-ISOLONGIFOLENE §§ (-)-ISOLONGIFOLINE §§ (2S)-1,3,4, 5,6,7-HEXAHYDRO-1,1,3,5-TETRAMETHY L-2H-2,4A-METHANONAPHTHALENE 2H-2,4A-METHANONAPHTHALENE, 1,3,4, 5,6,7-HEXAHYDRO-1,1,3,5-TETRAMETHY L-, (2S)- §§ (-)-ISOLONGIFOLENE §§ (-)-ISOLONGIFOLINE §§ (2S)-1,3,4, 5,6,7-HEXAHYDRO-1,1,3,5-TETRAMETHY L-2H-2,4A-METHANONAPHTHALENE	350641 350804 350805	001135-66-6 001135-66-6 001135-66-6	95 95 95
0	17.703	0.01	D:\DATABASE\DEMO.L 3,6,8-Nonatrienoic acid, 5-methyl- , ethyl ester 3,6,8-NONATRIENOIC ACID, 5-METHYL- , ETHYLESTER 2-(1-Cyano-3-methyl-but-2-enylamin o)-succinonitrile	2929 2933 733	999002-93-0 000000-00-0 999000-73-3	10 10 9
1	28.605	0.01	D:\DATABASE\DEMO.L 4-(METHOXYMETHYL)-6-METHYL-2-PHENO XYNICOTINONITRILE §§ PYRIDINE-3-CAR BONITRILE, 4-METHOXYMETHYL-6-METH YL-2-PHENOXY- 4-BROMO-N-[(6-METHYL-2-PYRIDYL)AMI NOMETHYL]PHTHALIMIDE §§ 5-BROMO-2-	7413 7473	332057-36-0 999007-47-4	10 9

Data Path : F:\DATA MS\daa\
 Data File : WLM-200c-10pssan-2jm.D
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Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

Pk#	RT	Area#	Library/ID	Ref#	CAS#	Qual
			{[(6-METHYL-2-PYRIDINYL)AMINO]METHYL}-1H-ISOINDOLE-1,3(2H)-DIONE	7476	999007-47-7	9
12	30.220	0.02	D:\DATABASE\DEMO.L 2-AMINO-4-(4'-METHYLPHENYL)THIAZOL 1,5-METHANO-8H-PYRIDO(1,2-A)[1,5]D IAZOCIN-8-ONE, 1,2,3,4,5,6-HEXAHYD RO-, (1R)- §§ (-)-CYTISINE §§ 1, 5 -METHANO-8H-PYRIDO(1,2-A)[1,5]DIAZ OCIN-8-ONE, 1,2,3,4,5, 6-HEXAHYDRO -, (1R)- §§ 1,2,3,4,5,6-HEXAHYDRO- 1,5-METHANO-8H-PYRIDO(1,2-A)(1,5)D IAZOCIN-8-ONE 2-Cyano-6-methoxybenzothiazole §§ 6-Methoxy-1,3-benzothiazole-2-carb onitrile #	402705 402738	000000-00-0 000485-35-8	30 30
13	30.301	0.03	D:\DATABASE\DEMO.L PIMARA-8,15-DIENE §§ PHENANTHRENE, 7-ETHENYL-1,2,3,4,4A,5,6,7,8,9,10 ,10A-DODECAHYDRO-1,1,4A,7-TETRAMET HYL- §§ 7.ALPHA.-ETHENYL-1,1,4A,7. BETA.-TETRAMETHYL-1,2,3,4,4A,5,6,7 ,8,9,10,10A-DODECAHYDROPHENANTHREN Phenanthrene, 7-ethenyl-1,2,3,4,4a ,5,6,7,8,9,10,10a-dodecahydro-1,1, 4a,7-tetramethyl- §§ Pimara-8,15-di ene # PHENANTHRENE, 7-ETHENYL-1,2,3,4,4A ,5,6,7,8,9,10,10A-DODECAHYDRO-1,1, 4A,7-TETRAMETHYL-, [4AS-(4A.ALPHA. ,7.ALPHA.,10A.BETA.)]- §§ PIMARA-8 (9),15-DIENE §§ PODOCARP-8-ENE, 13 .ALPHA.-METHYL-13-VINYL-	481165 481092 481161	055255-56-6 055255-56-6 018319-61-4	99 99 91
14	30.544	0.04	D:\DATABASE\DEMO.L Naphtho[2,3-b]furan-8(4H)-one, 4a, 5,6,7,8a,9-hexahydro- 2H-1-BENZOPYRAN-2-ONE, 8-HYDROXY-4 ,7-DIMETHYL- §§ 8-HYDROXY-4,7-DIME THYLCUMARIN 7H-Chroman-7-one, 8-hydroxy-2,4-di methyl-	402491 402726 402431	999402-49-5 077869-46-6 999402-43-5	30 30 30
15	30.711	0.01	D:\DATABASE\DEMO.L 9-(4-HYDROXYPHENYL)-3,3,6,6-TETRAM ETHYL-3,4,6,7,8A,9-HEXAHYDRO-1,8(2 H,5H)-ACRIDIMEDIONE 4-(METHOXYMETHYL)-6-METHYL-2-PHENO XYNICOTINONITRILE §§ PYRIDINE-3-CA RBONITRILE, 4-METHOXYMETHYL-6-METH YL-2-PHENOXY- 4-BROMO-N-((6-METHYL-2-PYRIDYL)AMI NOMETHYL)PHthalimide §§ 5-BROMO-2- {[(6-METHYL-2-PYRIDINYL)AMINO]METH	7482 7413 7473	999007-48-3 332057-36-0 999007-47-4	25 16 12

Data Path : F:\DATA MS\data\
 Data File : WLM-200c-10pseen-2jm.D
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Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

k#	RT	Area#	Library/ID	Ref#	CAS#	Qual
			YL)-1H-ISOINDOLE-1,3(2H)-DIONE			
16	30.873	0.02	D:\DATABASE\DEMO.L 3-Phenyl-4-azafluorene §§ 2-Phenyl -5H-indano[1,2-b]pyridine § 5-METHYLBENZO(C)ACRIDINE §§ BENZ(C) JACRIDINE, 5-METHYL- §§ 5-METHYLBE NZ(C)ACRIDINE §§ 5-METHYLBENZO(C)A CRIDINE 3-PHENYL-4-AZAFLOURENE	467987 468083 468090	033777-97-8 003519-87-7 033777-97-8	72 72 64
17	31.192	0.03	D:\DATABASE\DEMO.L 8H-Pyrano[2,3-a]benzothiophan-8-on e, 4-formamido-6-methyl- 8H-Carbazole, 9-phenyl- §§ Carbaz 1e, 9-phenyl- §§ N-Phenylcarbazole §§ 9-Phenylcarbazole 5-METHYLBENZO(C)ACRIDINE §§ BENZ(C) JACRIDINE, 5-METHYL- §§ 5-METHYLBE NZ(C)ACRIDINE §§ 5-METHYLBENZO(C)A CRIDINE	467956 467916 468083	999467-96-4 001150-62-5 003519-87-7	72 72 72
18	31.262	0.00	D:\DATABASE\DEMO.L 4-(METHOXYMETHYL)-6-METHYL-2-PHENO XYNICOTINONITRILE §§ PYRIDINE-3-CA RBNITRILE, 4-METHOXYMETHYL-6-METH YL-2-PHENOXY- 6-ETHYL-2-METHYL-4,6-DIHYDRO-2H-[1 ,4]OXAZINO[3,2-C]QUINOLINE-3,5-DIO NE §§ 6-ETHYL-2-METHYL-2H-1-OXA-4, 6-PHENANTHROLINE-3,5(4H,6H)-DIONE §§ 6-ETHYL-2-METHYL-6,10B-DIHYDRO- 2H-[1,4]OXAZINO[3,2-C]QUINOLINE-3, 5-DIONE 2,2'-(1,4-Piperazinediyl)bis[N-(4- methoxyphenyl)succinimide]	7413 7414 7324	332057-36-0 334023-40-4 293766-05-9	25 9 9
19	31.689	0.06	D:\DATABASE\DEMO.L 3,4-DIHYDRO-7,12-DIMETHYLBENZ(A)AN THRACENE (+)-(3S*,4AS*,9AS*)-7-HYDROXY-3,6 ,8,9,9-PENTAMETHYL-1,2,3,4,4A,9A-H EXAHYDROFLURENE 3(2H)-PYRIDAZINONE, 2-[4-METHOXY-3 -(1-METHYLETHYL)PHENYL]-6-METHYL- §§ 2-(3-ISOPROPYL-4-METHOXYPHENYL)- 6-METHYLPYRIDAZIN-3(2H)-ONE	482069 482050 481976	000000-00-0 000000-00-0 120129-92-2	90 83 83
20	31.830	0.01	D:\DATABASE\DEMO.L 4-(METHOXYMETHYL)-6-METHYL-2-PHENO XYNICOTINONITRILE §§ PYRIDINE-3-CA RBNITRILE, 4-METHOXYMETHYL-6-METH YL-2-PHENOXY- 3-(3-OXO-3H-BENZO[F]CHROMEN-2-YL)- 2,4(1H,3H)-QUINOLINEDIONE §§ 4-HYD ROXY-3-(2-OXO-2H-1-OXA-3-PHENANTH YL)-2(1H)-QUINOLINONE 2-METHOXY-4-(METHOXYMETHYL)-6-METH YLNICOTINONITRILE §§ PYRIDINE-3-CA	7413 7476 7347	332057-36-0 999007-47-7 063644-84-8	22 9 9

Data Path : F:\DATA MS\data\
 Data File : WLM-200c-10pssan-2jm.D
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 Sample :
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

k#	RT	Area#	Library/ID	Ref#	CAS#	Qual
RBCNITRILE, 2,4-DIMETHOXY-6-METHYL						
21	31.981	0.07	D:\DATABASE\DEMO.L (+)-(3S*,4AS*,9AS*)-7-HYDROXY-3,6 ,8,9,9-PENTAMETHYL-1,2,3,4,4A,9A-H EXAHYDROFLUORENE 3(2H)-PYRIDAZINONE, 2-[4-METHOXY-3 -(1-METHYLETHYL)PHENYL]-6-METHYL- §§ 2-(3-ISOPROPYL-4-METHOXYPHENYL) -6-METHYLPYRIDAZIN-3(2H)-ONE 3,4-DIHYDRO-7,12-DIMETHYLBENZ[A]AN THRACENE	482050	000000-00-0	90
22	32.100	0.03	D:\DATABASE\DEMO.L 2-METHYL-1,2-DIHYDRO-2,2'-BIQUINOL YL 3-METHYL-3-PHENYL-3H-NAPHTHO[2,3-B]PYRAN Pyrido[3,4-d]pyridazine-4,5(3H,6H) -dione, 1-(2-furfuryl)-7-methyl- § § 1-(2-Furylmethyl)-7-methylpyrido [3,4-d]pyridazine-4,5(3H,6H)-dione †	481149	000000-00-0	43
23	32.337	0.01	D:\DATABASE\DEMO.L 4-(METHOXYMETHYL)-6-METHYL-2-PHEMO KYNICOTINONITRILE §§ PYRIDINE-3-CA RBCNITRILE, 4-METHOXYMETHYL-6-METH YL-2-PHENOXY- 1,3-OXATHIOL-1-IUM, 4-HYDROXY-2-[(1-METHYLETHYL)THIO]-5-(TRIFLUOROAC ETYL)-, HYDROXIDE, INNER SALT §§ 2 -ISOPROPYLTHIO-5-TRIFLUORACETYL-1, 3-OXATHIOLIUM-4-OLAT 1-Dodecanamine §§ Dodecylamine §§ n-Dodecylamine §§ Alanine 4	7413	332057-36-0	35
24	32.386	0.02	D:\DATABASE\DEMO.L 2,5-Dimethyl-1-(p-anisyl)pyrrole § § 1-(4-Methoxyphenyl)-2,5-dimethyl -1H-pyrrole † 1-(4-METHOXYPHENYL)-2,5-DIMETHYL-1 H-PYRROLE §§ 2,5-DIMETHYL-1-(P-ANI SYL)PYRROLE (22)-(1,3,3-TRIMETHYL-1,3-DIHYDRO- 2H-INDOL-2-YLIDENE)ETHANAL §§ ACET ALDEHYDE, (1,3-DIHYDRO-1,3,3-TRIME THYL-2H-INDOL-2-YLIDENE)- §§ (1,3 ,3-TRIMETHYLINDOLIN-2-YLIDENE)ACET ALDEHYDE §§ (1,3,3-TRIMETHYLINDOLI N-2-YLIDENE)ACETALDEHYDE	419319	005044-27-9	60
25	32.456	0.01	D:\DATABASE\DEMO.L 4-(METHOXYMETHYL)-6-METHYL-2-PHEMO KYNICOTINONITRILE §§ PYRIDINE-3-CA RBCNITRILE, 4-METHOXYMETHYL-6-METH YL-2-PHENOXY- 2-(3-BUTOXY-2-HYDROXYPROPYL)MALONO HYDRAZIDE §§ MALONODIHYDRAZIDE, 2-	7413	332057-36-0	16
				7415	331648-87-4	12

Data Path : F:\DATA MS\daa\
 Data File : WLM-200c-10pssan-2jm.D
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Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			(3-BUTOXY-2-HYDROXYPROPYL)- 2-METHOXY-4-(METHOXYMETHYL)-6-METH YLNICOTINONITRILE §§ PYRIDINE-3-CA RBNITRILE, 2,4-DIMETHOXY-6-METHYL	7347	063644-84-8	12
16	32.591	0.01	D:\DATABASE\DEMO.L 1-Octadecanamine §§ Octadecylamine §§ n-Octadecylamine §§ n-Stearyla mine 4-(METHOXYMETHYL)-6-METHYL-2-PHEMO XYNICOTINONITRILE §§ PYRIDINE-3-CA RBNITRILE, 4-METHOXYMETHYL-6-METH YL-2-PHENOXY- 1-Hexadecanamine §§ Hexadecylamine §§ n-Cetylamine §§ n-Hexadecylami ne	4961	000124-30-1	14
				7413	332057-36-0	12
				4902	000143-27-1	12
17	32.759	0.01	D:\DATABASE\DEMO.L L-Alanine, N-glycyl- §§ Alanine, N -glycyl-, L- §§ Glycylalanine §§ Gl y-ala 1,12-DODECANEDIAMINE §§ DODECANE-1 ,12-DIAMINE §§ 1, 12-DIAMINODODECA NE §§ 1, 12-DODECANEDIAMINE 1-Dodecanamine §§ Dodacylamine §§ n-Dodecylamine §§ Alanine 4	4366	003695-73-6	9
				4755	002783-17-7	9
				4653	000124-22-1	9
18	32.980	0.01	D:\DATABASE\DEMO.L 2-METHOXY-4-(METHOXYMETHYL)-6-METH YLNICOTINONITRILE §§ PYRIDINE-3-CA RBNITRILE, 2,4-DIMETHOXY-6-METHYL 1,3-OXATHIOL-1-IUM, 4-HYDROXY-2-[(1-METHYLETHYL)THIO]-5-(TRIFLUOROAC ETYL)-, HYDROXIDE, INNER SALT §§ 2 -ISOPROPYLTHIO-5-TRIFLUORACETYL-1, 3-OXATHIOLYIUM-4-OLAT Taurolidine §§ 2H-1,2,4-Thiadiazin e, 4,4'-methylenebis(tetrahydro-, 1,1,1',1'-tetraoxide §§ 4,4'-Methy lenebis(tetrahydro-1,2,4-thiadiaz ine 1,1-dioxide) §§ Taurolin	7347	063644-84-8	12
				7423	096088-83-4	11
				4983	019388-87-5	10
19	33.029	0.00	D:\DATABASE\DEMO.L 4-(METHOXYMETHYL)-6-METHYL-2-PHEMO XYNICOTINONITRILE §§ PYRIDINE-3-CA RBNITRILE, 4-METHOXYMETHYL-6-METH YL-2-PHENOXY- 1-Hexadecanamine §§ Hexadecylamine §§ n-Cetylamine §§ n-Hexadecylami ne 1-OCTADECANAMINE §§ OCTADECAN-1-AM INE §§ 1-AMINOCTADECANE §§ 1-OCTA DECANAMIN	7413	332057-36-0	22
				4902	000143-27-1	16
				4965	000124-30-1	14
20	33.142	0.01	D:\DATABASE\DEMO.L 3-METHOXY-17-METHYLMORPHINAN-14-OL §§ MORPHINAN-14-OL, 3-METHOXY-17- METHYL- §§ (-)-14-HYDROXY-3-METHOX Y-17-METHYLMORPHINAN	45788	001639-74-3	45

Data Path : F:\DATA MS\data\
 Data File : WLM-2006-10\psen-2jm.D
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 Misc :
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Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

%#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			Morphinan-14-ol, 3-methoxy-17-methoxy-1- §§ (-)-14-Hydroxy-3-methoxy-17- -methylnorphinan §§ 3-Methoxy-17-m ethylmorphinan-14-ol #	45783	001639-74-3	45
			(1'S,3R)-N-(1-CYCLOHEXYLETHYL)-3-H YDROXY-3-PHENYLPROPIONAMID	45648	100929-25-7	17
31	33.326	0.01	D:\DATABASE\DEMO.L Tridecylamine §§ n-Tridecylamine § § 1-Aminotridecane §§ 1-Tridecanam ine 1-Tetradecanamine §§ Tetradecylami ne §§ Armeen 14 §§ Myristylamine 1-Hexadecanamine §§ Hexadecylamine §§ n-Cetylamine §§ n-Hexadecylami ne	4737	002869-34-3	14
				4817	002016-42-4	14
				4902	000143-27-1	10
32	33.369	0.01	D:\DATABASE\DEMO.L 2-METHOXY-4-(METHOXYMETHYL)-6-METH YLNICOTINONITRILE §§ PYRIDINE-3-CR BONITRILE, 2,4-DIMETHOXY-6-METHYL 1-Tetradecanamine §§ Tetradecylami ne §§ Armeen 14 §§ Myristylamine 1-Hexadecanamine §§ Hexadecylamine §§ n-Cetylamine §§ n-Hexadecylami ne	7347	063644-84-8	27
				4817	002016-42-4	11
				4902	000143-27-1	10
33	33.493	0.13	D:\DATABASE\DEMO.L KAURA-5,16-DIEN-18-OL §§ KAURA-5,1 6-DIEN-18 (OR 19)-OL §§ KAURA-5,16- DIEN-19-OL Kaura-5,16-dien-18(or 19)-ol §§ Ka ura-5,16-dien-18-ol #	492904	023837-99-2	83
				492860	023837-99-2	80
				503749	999503-76-1	50
34	33.682	0.02	D:\DATABASE\DEMO.L 2-METHOXY-4-(METHOXYMETHYL)-6-METH YLNICOTINONITRILE §§ PYRIDINE-3-CR BONITRILE, 2,4-DIMETHOXY-6-METHYL 2-(3-Methyl-1,5-dinitro-3-aza-bicy clo[3.3.1]non-6-an-6-yl-oxo)-ethano Morphinan-14-ol, 3-methoxy-17-meth oxy-1- §§ (-)-14-Hydroxy-3-methoxy-17- -methylnorphinan §§ 3-Methoxy-17-m ethylmorphinan-14-ol #	7347	063644-84-8	14
				45784	999045-78-6	12
				45783	001639-74-3	11
35	33.785	0.03	D:\DATABASE\DEMO.L 7-BENZYLOXY-2,4-DIHYDROXY-2H-[1,4] BENZOXAZIN-3(4H)-ONE Naphthalene, 6-ethyl-1,2,3,4-tetra hydro-1,1,4,4-tetramethyl-7-(1-met hylethanyl)- §§ 6-Ethyl-7-isopropo nyl-1,1,4,4-tetramethyl-1,2,3,4-te trahydronaphthalene # 4-ISOPROPYL-1,1,6,6-TETRAMETHYL-1, 2,3,6,7,8-HEXAHYDRO-AS-INDACENE §§ AS-INDACENE, 1,2,3,6,7,8-HEXAHYDR O-1,1,6,6-TETRAMETHYL-4-(1-METHYLE THYL)- §§ 1,1,6,6-TETRAMETHYL-4-IS	167385	000000-00-0	43
				466156	301643-35-6	35
				466223	017465-47-3	35

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Px#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			OPROPYL-1,2,3,6,7,8-HEXAHYDRO-AS-I INDACENE			
36	33.855	0.10	D:\DATABASE\DEMO.L 1-Methyl-10,18-bisnorabieta-8,11,1 3-triene 10,13-DIMETHYL-4,5,6,7,8,9,10,11,1 2,13,14,15-DODECAHYDRO-1H-CYCLOPHE TA(A)PHENANTHRENE §§ ANDROSTA-2,16 -DIENE 3,3,4,5,5,8-HEXAMETHYL-3,5,6,7-TET RAHYDRO-9-INDACEN-1(2H)-ONE §§ S-I NDACEN-1(2H)-ONE, 3,5,6,7-TETRAHYD RO-3,3,4,3,5,8-HEXAMETHYL- §§ 3,3, 4,5,5,8-HEXAMETHYL-1-9-HYDRINDACEN ONE	466158	999466-16-6	94
			D:\DATABASE\DEMO.L 1-Methyl-10,18-bisnorabieta-8,11,1 3-triene 10,13-DIMETHYL-4,5,6,7,8,9,10,11,1 2,13,14,15-DODECAHYDRO-1H-CYCLOPHE TA(A)PHENANTHRENE §§ ANDROSTA-2,16 -DIENE 3,3,4,5,5,8-HEXAMETHYL-3,5,6,7-TET RAHYDRO-9-INDACEN-1(2H)-ONE §§ S-I NDACEN-1(2H)-ONE, 3,5,6,7-TETRAHYD RO-3,3,4,3,5,8-HEXAMETHYL- §§ 3,3, 4,5,5,8-HEXAMETHYL-1-9-HYDRINDACEN ONE	466180	999466-18-8	93
			D:\DATABASE\DEMO.L 1-Methyl-10,18-bisnorabieta-8,11,1 3-triene 10,13-DIMETHYL-4,5,6,7,8,9,10,11,1 2,13,14,15-DODECAHYDRO-1H-CYCLOPHE TA(A)PHENANTHRENE §§ ANDROSTA-2,16 -DIENE 3,3,4,5,5,8-HEXAMETHYL-3,5,6,7-TET RAHYDRO-9-INDACEN-1(2H)-ONE §§ S-I NDACEN-1(2H)-ONE, 3,5,6,7-TETRAHYD RO-3,3,4,3,5,8-HEXAMETHYL- §§ 3,3, 4,5,5,8-HEXAMETHYL-1-9-HYDRINDACEN ONE	466221	038754-94-8	72
37	34.125	0.01	D:\DATABASE\DEMO.L No matches found			
38	34.185	0.00	D:\DATABASE\DEMO.L 1-Hexadecanamine §§ Hexadecylamine §§ n-Cetylamine §§ n-Hexadecylami ne 4-(METHOXYMETHYL)-6-METHYL-2-PHEMO XYNICOTINONITRILE §§ PYRIDINE-3-CA RBNITRILE, 4-METHOXYMETHYL-6-METH YL-2-PHEMOXY- 1-Tetradecanamine §§ Tetradecylami ne §§ Armeen 14 §§ Myristylamine	4902	000143-27-1	10
			D:\DATABASE\DEMO.L 1-Hexadecanamine §§ Hexadecylamine §§ n-Cetylamine §§ n-Hexadecylami ne 4-(METHOXYMETHYL)-6-METHYL-2-PHEMO XYNICOTINONITRILE §§ PYRIDINE-3-CA RBNITRILE, 4-METHOXYMETHYL-6-METH YL-2-PHEMOXY- 1-Tetradecanamine §§ Tetradecylami ne §§ Armeen 14 §§ Myristylamine	7413	332057-36-0	10
			D:\DATABASE\DEMO.L 1-Hexadecanamine §§ Hexadecylamine §§ n-Cetylamine §§ n-Hexadecylami ne 4-(METHOXYMETHYL)-6-METHYL-2-PHEMO XYNICOTINONITRILE §§ PYRIDINE-3-CA RBNITRILE, 4-METHOXYMETHYL-6-METH YL-2-PHEMOXY- 1-Tetradecanamine §§ Tetradecylami ne §§ Armeen 14 §§ Myristylamine	4817	002016-42-4	10
39	34.212	0.00	D:\DATABASE\DEMO.L 2-((E)-2-((E)-2-((E)-2-HYDROXYPHE NYL)METHYLIDENE)AMINO)PROPYL)IMINO)METHYL)PHENOL §§ .ALPHA.,.ALPHA.' -(1-METHYLETHYLENEDIIMINO)DI-ORTHO -CRESOL §§ .ALPHA.,.ALPHA.'-DIPROP YLENEDINITRILODI-O-CRESOL §§ ALPHA ,ALPHA'-(1-METHYLETHYLENEDIIMINO)D I-ORTHO-CRESOL Sarcosine, N-(3-cyclopentylpropion yl)-, isobutyl ester	45719	000094-91-7	22
			D:\DATABASE\DEMO.L 2-((E)-2-((E)-2-((E)-2-HYDROXYPHE NYL)METHYLIDENE)AMINO)PROPYL)IMINO)METHYL)PHENOL §§ .ALPHA.,.ALPHA.' -(1-METHYLETHYLENEDIIMINO)DI-ORTHO -CRESOL §§ .ALPHA.,.ALPHA.'-DIPROP YLENEDINITRILODI-O-CRESOL §§ ALPHA ,ALPHA'-(1-METHYLETHYLENEDIIMINO)D I-ORTHO-CRESOL Sarcosine, N-(3-cyclopentylpropion yl)-, isobutyl ester	45577	999045-57-9	1
40	34.304	0.05	D:\DATABASE\DEMO.L METHYL PIMARA-8,15-DIEN-18-CATE §§ 1-PHENANTHRENECARBOXYLIC ACID, 7- ETHENYL-1,2,3,4,4A,5,6,7,8,9,10,10 A-DODECAHYDRO-1,4A,7-TRIMETHYL-, M ETHYL ESTER, [1R-(1.ALPHA.,4A.BETA ,.7.BETA.,10A.ALPHA.)]- §§ METHYL 8,15-PIMARADIEN-18-CATE METHYL PIMARA-7,15-DIEN-18-CATE §§ 1-PHENANTHRENECARBOXYLIC ACID, 7- ETHENYL-1,2,3,4,4A,4B,5,6,7,8,10,1 0A-DODECAHYDRO-1,4A,7-TRIMETHYL-, METHYL ESTER, [1R-(1.ALPHA.,4A.SET A.,4B.ALPHA.,7.ALPHA.,10A.ALPHA.)] - §§ ISOPIMARATE §§ ISOPINGARIC ACI D, METHYL ESTER	466513	003582-26-1	53
			D:\DATABASE\DEMO.L METHYL PIMARA-8,15-DIEN-18-CATE §§ 1-PHENANTHRENECARBOXYLIC ACID, 7- ETHENYL-1,2,3,4,4A,5,6,7,8,9,10,10 A-DODECAHYDRO-1,4A,7-TRIMETHYL-, M ETHYL ESTER, [1R-(1.ALPHA.,4A.BETA ,.7.BETA.,10A.ALPHA.)]- §§ METHYL 8,15-PIMARADIEN-18-CATE METHYL PIMARA-7,15-DIEN-18-CATE §§ 1-PHENANTHRENECARBOXYLIC ACID, 7- ETHENYL-1,2,3,4,4A,4B,5,6,7,8,10,1 0A-DODECAHYDRO-1,4A,7-TRIMETHYL-, METHYL ESTER, [1R-(1.ALPHA.,4A.SET A.,4B.ALPHA.,7.ALPHA.,10A.ALPHA.)] - §§ ISOPIMARATE §§ ISOPINGARIC ACI D, METHYL ESTER	466517	001686-62-0	49

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 Data File : WLM-200c-10pssan-2jm.D
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 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

k#	RT	Area#	Library/ID	Ref#	CAS#	Qual
			1-Phenanthrenecarboxylic acid, 7-a thenyl-1,2,3,4,4a,5,6,7,8,9,10,10a -dodecahydro-1,4a,7-trimethyl-, me thyl ester, [(1R-(1.alpha.,4a.beta. ,7.alpha.,10a.alpha.))-] - §§ Podocarp p-8-en-15-oic acid, 13.beta.-methyl 1-13-vinyl-, methyl ester	466506	019907-21-2	25
41	34.406	0.00	D:\DATABASE\DEMO.L 1-Hexadecanamine §§ Hexadecylamine §§ n-Cetylamine §§ n-Hexadecylami ne GLYCINE, N-[[[(4-METHOXYPHENYL)METH OXY]CARBONYL]-N-METHYL- §§ PMZ-SAR 2,2'-(1,4-Piperazinediyl)bis[N-(4- methoxyphenyl)succinimide]	4902	000143-27-1	11
				7411	108536-10-3	10
				7524	293766-05-9	10
42	34.541	0.05	D:\DATABASE\DEMO.L 1,2,4-TRIAZOLO(3,4-C)(1,2,4)-BENZO TRIAZIN-1(5H)-ONE 1-Phenanthrenecarboxaldehyde, 7-et henyl-1,2,3,4,4a,4b,5,6,7,8,9,10,10a -dodecahydro-1,4a,7-trimethyl-, (1 R-(1.alpha.,4a.beta.,4b.alpha.,7.b eta.,10a.alpha.))- §§ Podocarp-8(1 4)-en-15-al, 13.alpha.-methyl-13-v inyl- §§ Cryptopinone §§ Cryptopino ne PIMARA-8(14),15-DIEN-18-AL §§ 1-PH ENANTHRENECARBOXALDEHYDE, 7-ETHENY L-1,2,3,4,4A,4B,5,6,7,8,9,10,10A-DOD ECAHYDRO-1,4A,7-TRIMETHYL-, [(1R-(1 .ALPHA.,4A.BETA.,4B.ALPHA.,7.BETA. ,10A.ALPHA.))-] - §§ CRYPTOPINON §§ C RYPTOPIMONE	282352	000000-00-0	53
				481182	000472-39-9	53
				481208	000472-39-9	53
43	34.671	0.00	D:\DATABASE\DEMO.L No matches found			
44	34.730	0.02	D:\DATABASE\DEMO.L N-ISOPROPYL-2,2-DIMETHOXY-3,3-DIME THYL-1-BUTYLAMINE 3-TRIDEUTEROMETHOXY-4-METHYL-2(5H) -FURANONE 3,5,7,8-TETRACHLOROUNDECAFLUORO-OC TANOIC ACID	7369	000000-00-0	10
				2514	000000-00-0	9
				3535	000000-00-0	4
45	34.822	0.00	D:\DATABASE\DEMO.L 2-((E)-[[(E)-2-((E)-(2-HYDROXYPHE NYL)METHYLIDENE)AMINO]PROPYL]IMINO]METHYL)PHENOL §§ .ALPHA.,.ALPHA.' -(1-METHYLETHYLENEDIIMINO)DI-ORTHO -CRESOL §§ .ALPHA.,.ALPHA.'-DIPROP YLENEDINITRILODI-O-CRESOL §§ ALPHA ,ALPHA'-(1-METHYLETHYLENEDIIMINO)D I-ORTHO-CRESOL 2-PYRIDINEPROPANOIC ACID, .ALPHA.- METHYL-.BETA.-OXO-, ETHYL ESTER §§ ETHYL 2-METHYL-3-OXO-3-(2-PYRIDIN	45719	000094-91-7	64
				5863	999005-86-4	9

Data Path : F:\DATA MS\daa\
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 Sample :
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area#	Library/ID	Ref#	CAS#	Qual
			YL)PROPANOATE 2H-3,5A-METHANO-1-BENZOXEPIN, OCTA HYDRO-2,2,5A,9-TETRAMETHYL-, [3R-(3.ALPHA.,5A.ALPHA.,9.ALPHA.,9A.ALPH HA.)]- §§ .BETA.-AGAROFURAN, DIHYD RO- §§ .BETA.-DIHYDROAGAROFURAN §§ 2H-3,5A-METHANO-1-BENZOXEPIN, OCT AHYDRO-2,2,5A,9-TETRAMETHYL-	3110	005956-09-2	8
46	34.936	0.03	D:\DATABASE\DEMO.L (2E)-N-OCTYL-3-PHENYL-2-PROPENAMID E §§ 2-PROPENAMIDE, N-OCTYL-3-PHEN YL- §§ N-N-OCTYL-3-PHENYLPROPENAMI DE 2-Propenamide, N-octyl-3-phenyl- § § (2E)-n-Octyl-3-phenyl-2-propenam ide # 1,2,4-TRIAZOLE(3,4-C)(1,2,4)-BENZO TRIAZIN-1(5H)-ONE	283089	055030-48-3	40
			2-Propenamide, N-octyl-3-phenyl- § § (2E)-n-Octyl-3-phenyl-2-propenam ide #	283082	055030-48-3	40
			1,2,4-TRIAZOLE(3,4-C)(1,2,4)-BENZO TRIAZIN-1(5H)-ONE	282352	000000-00-0	35
47	35.022	0.03	D:\DATABASE\DEMO.L 4,5-Bis-dimethoxymethyl-octanedioi c acid, dimethyl ester 1-Dimethyl(prop-2-enyl)silyloxy-10 -undecane METHYL (2E)-3,7-DIMETHYL-2,6-OCTAD IENOATE §§ 2,6-OCTADIENOIC ACID, 3 ,7-DIMETHYL-, METHYL ESTER §§ METH YL 3,7-DIMETHYL-2,6-OCTADIENOATE § § METHYL ESTER OF 3,7-DIMETHYL-2,6 -OCTADIENOIC ACID	124248	999124-25-1	50
			1-Dimethyl(prop-2-enyl)silyloxy-10 -undecane	123536	999123-53-9	47
			METHYL (2E)-3,7-DIMETHYL-2,6-OCTAD IENOATE §§ 2,6-OCTADIENOIC ACID, 3 ,7-DIMETHYL-, METHYL ESTER §§ METH YL 3,7-DIMETHYL-2,6-OCTADIENOATE § § METHYL ESTER OF 3,7-DIMETHYL-2,6 -OCTADIENOIC ACID	122646	002349-14-6	47
48	35.119	0.02	D:\DATABASE\DEMO.L KAUR-16-EN-18-OIC ACID §§ KAUR-16- EN-18-OIC ACID, (4.BETA.)- §§ (-)- KAURMENOIC ACID §§ (4-BETA)-KAUR-1 6-EN-18-OIC ACID Benzoic acid, 2-(methylamino)-, 2- methylpropyl ester §§ iso-Butyl N- methyl anthranilate §§ isobutyl 2- (methylamino)benzoate # 2-METHYLPROPYL N-METHYLANTHRANILAT	168418	020316-84-1	35
			Benzoic acid, 2-(methylamino)-, 2- methylpropyl ester §§ iso-Butyl N- methyl anthranilate §§ isobutyl 2- (methylamino)benzoate #	209232	065505-24-0	25
			2-METHYLPROPYL N-METHYLANTHRANILAT	209257	000000-00-0	25
49	35.141	0.01	D:\DATABASE\DEMO.L KAUR-16-EN-18-OIC ACID §§ KAUR-16- EN-18-OIC ACID, (4.BETA.)- §§ (-)- KAURMENOIC ACID §§ (4-BETA)-KAUR-1 6-EN-18-OIC ACID 2-((E)-[[(E)-2-[(E)-(2-HYDROXYPHE NYL)METHYLIDENE]AMINO]PROPYL]IMINO]METHYL)PHENOL §§ .ALPHA.,.ALPHA.' -(1-METHYLETHYLENEDIIMINO)DI-ORTHO -CRESOL §§ .ALPHA.,.ALPHA.'-DIPROP YLENEDINITRILODI-O-CRESOL §§ ALPHA ,ALPHA'-(1-METHYLETHYLENEDIIMINO)D I-ORTHO-CRESOL Benzonitrile, n-phenethyl- §§ 3-(2 -Phenylethyl)benzonitrile #	168418	020316-84-1	49
			2-((E)-[[(E)-2-[(E)-(2-HYDROXYPHE NYL)METHYLIDENE]AMINO]PROPYL]IMINO]METHYL)PHENOL §§ .ALPHA.,.ALPHA.' -(1-METHYLETHYLENEDIIMINO)DI-ORTHO -CRESOL §§ .ALPHA.,.ALPHA.'-DIPROP YLENEDINITRILODI-O-CRESOL §§ ALPHA ,ALPHA'-(1-METHYLETHYLENEDIIMINO)D I-ORTHO-CRESOL	45719	000094-91-7	43
			Benzonitrile, n-phenethyl- §§ 3-(2 -Phenylethyl)benzonitrile #	162409	034176-91-5	10

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 Data File : WLM-200c-10pssan-2jm.D
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 Sample :
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 ALS Vial : 4 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

Pk#	RT	Area#	Library/ID	Ref#	CAS#	Qual
50	35.173	0.03	D:\DATABASE\DEMO.L KAUR-16-EN-18-OIC ACID §§ KAUR-16- EN-18-OIC ACID, (4.BETA.)- §§ (-)- KAURNENOIC ACID §§ (4-BETA.)-KAUR-1 6-EN-18-OIC ACID Acetamide, N-(2,6-dimethylphenyl)- 2-[5-(4-methoxyphenyl)tetrazol-2-y 1]- Benzonitrile, n-phenethyl- §§ 3-(2 -Phenylethyl)benzonnitrile #	168418	020316-84-1	38
51	35.308	0.03	D:\DATABASE\DEMO.L KAUR-16-EN-18-OIC ACID §§ KAUR-16- EN-18-OIC ACID, (4.BETA.)- §§ (-)- KAURNENOIC ACID §§ (4-BETA.)-KAUR-1 6-EN-18-OIC ACID 2,4B-DIMETHYL-8-METHYLENE-2-VINYL- 1,2,3,4,4A,4B,5,6,7,8,8A,9-DODECAH YDROPHENANTHRENE §§ PHENANTHRENE, 7-ETHENYL-1,2,3,4,4A,4B,5,6,7,8,10 ,10A-DODECAHYDRO-4A,7-DIMETHYL-1-M ETHYLENE-, [4AS-(4A.ALPHA.,4B.BETA .,7.BETA.,10A.BETA.)]- 2-METHYLPROPYL N-METHYLANTHRANILAT	168418	020316-84-1	62
52	35.389	0.04	D:\DATABASE\DEMO.L 2-(ACETYLAMINO)PHENYL ACETATE §§ A CETIC ACID 2-ACETYLAMINO-PHENYL ES TER 6,6-Dimethylhepta-2,4-diene PHOSPHORIC ACID, 4-HYDROXY-3-(TRIM ETHYLSILYL)PHENYL DIMETHYL ESTER § § DIMETHYL-4-HYDROXY-3-TRIMETHYLSI LYLPHENYL PHOSPHATE	227934	999227-93-7	43
53	35.492	1.32	D:\DATABASE\DEMO.L Phenol, 2,4-bis(1-phenylethyl)- §§ 2,4-Bis(1-phenylethyl)phenol # 1-[1-(4-METHYLTHIO)HEXYLIDENE]-4-P HENYLCYCLOHEXANE Xanthen-9-one, 1-hydroxy-3,5,8-tri methoxy- §§ 3,8-Dimethylbellidifol in §§ 1-Hydroxy-3,5,8-trimethoxyxa nthen-9-one §§ 1-Hydroxy-3,5,8-tri methoxy-9H-xanthen-9-one #	504578	002769-94-0	60
54	35.665	0.14	D:\DATABASE\DEMO.L Xanthen-9-one, 1-hydroxy-3,5,8-tri methoxy- §§ 3,8-Dimethylbellidifol in §§ 1-Hydroxy-3,5,8-trimethoxyxa nthen-9-one §§ 1-Hydroxy-3,5,8-tri methoxy-9H-xanthen-9-one # Phenol, 2,4-bis(1-phenylethyl)- §§ 2,4-Bis(1-phenylethyl)phenol # 4,5-Dihydrobenzo[d]isoxazole, 3-me thyl-4,6-diphenyl-	504578	002769-94-0	47
55	35.757	0.30	D:\DATABASE\DEMO.L DEHYDROABIETIC ACID	464556	000000-00-0	97

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 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,8,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-, methyl ester, [1R-(1.alpha.,4a.beta.,10a.alpha.)]-	464536	001235-74-1	93
			Podocarpa-8,11,13-trien-15-oic acid, 13-isopropyl-, methyl ester	464549	001235-74-1	89
			METHYL ABIETA-8,11,13-TRIEN-18-OATE			
			E			
			1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,8,10,10A-OCTAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, METHYL ESTER, [1R-(1.ALPHA.,4A.BETA.,10A.ALPHA.)]-			
			DEHYDRABIETIC ACID METHYL ESTER			
			METHYL DEHYDROABIETATE			
56	35.897	0.18	D:\DATABASE\DEMO.L			
			Androst-5-en-17-ol, 4,4-dimethyl-2-acetyl-4,9-dimethoxy-7-methyl-5H-furo[3,2-c][1]-benzopyran-5-one	513436	999513-44-9	46
			1-PHENANTHRENECARBOXYLIC ACID, 7-E THENYL-1,2,3,4,4A,4B,5,6,7,8,10,10A-DODECAHYDRO-1,4A,7-TRIMETHYL-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,7.ALPHA.,10A.ALPHA.)]-	513538	092611-83-1	45
			ISOPIMARIC ACID	466436	005835-26-7	44
			PODOCARP-7-EN-15-OIC ACID, 13.BETA.-METHYL-13-VINYL-			
57	35.994	0.04	D:\DATABASE\DEMO.L			
			1,4-DIHYDRO-9-ISOPROPYLIDENE-5,6,7,8-TETRAMETHOXY-1,4-METHANONAPHTHALENE	513581	000000-00-0	90
			PHENOL, 5-(2-(3-HYDROXY-4-METHOXYPHENYL)ETHENYL)-2,3-DIMETHOXY-, (2S)-	513563	111394-45-7	72
			2,3-DIMETHOXY-5-(2-(3-HYDROXY-4-METHOXYPHENYL)ETHENYL)PHENOL (2S)			
			COMBRETASTATIN A3			
			Abietic acid	513378	000514-10-3	50
			1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.a.,4b.alpha.,10a.alpha.)]-			
			Podocarpa-7,13-dien-15-oic acid, 13-isopropyl-			
			Abietic acid			
58	36.011	0.03	D:\DATABASE\DEMO.L			
			1-Hydroxy-3,7,8-trimethoxyxanthan-9-one	504580	020882-69-3	42
			8-Hydroxy-1,2,6-trimethoxy-9H-xanthan-9-one			
			3-N-BUTYL[3]STAFFANE-3-CARBOXYLIC ACID	168299	000000-00-0	38
			KAUR-16-EN-18-OIC ACID	168418	020316-84-1	38
			KAUR-16-EN-18-OIC ACID, (4.BETA.)-			
			KAURMENOIC ACID			
			(4.BETA.)-KAUR-16-EN-18-OIC ACID			
59	36.092	0.20	D:\DATABASE\DEMO.L			
			Androst-5-en-17-ol, 4,4-dimethyl-1-phenanthrenecarboxylic acid, 7-E	513436	999513-44-9	55
			1-PHENANTHRENECARBOXYLIC ACID, 7-E	466436	005835-26-7	51

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 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area#	Library/ID	Ref#	CAS#	Qual
			THENYL-1,2,3,4,4A,4B,5,6,7,8,10,10 A-DOCECAHYDRO-1,4A,7-TRIMETHYL-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,7.ALPHA.,10A.ALPHA.)]- \$S ISOPINIC ACID \$S PODOCARP-7-EN-15-OIC ACID , 13.BETA.-METHYL-13-VINYL- Palustic acid \$S Podocarpa-8,13-d ien-15-oic acid, 13-isopropyl- \$S 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,5,6,9,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, (1R-(1.alpha.,4a.beta.,10a.alpha.))- \$S 8,13-Abietadien-18-oic acid	513439	001945-53-5	44
60	36.184	0.04	D:\DATABASE\DEMO.L Pinic acid \$S 1-Phenanthrenecarboxylic acid, 7-ethanyl-1,2,3,4,4a,4b,5,6,7,9,10,10a-decahydro-1,4a,7-trimethyl-, [1R-(1.alpha.,4a.beta.,4b.alpha.,7.beta.,10a.alpha.)]- \$S Podocarp-8(14)-en-15-oic acid , 13.alpha.-methyl-13-vinyl- \$S D-pinic acid Palustic acid \$S Podocarpa-8,13-d ien-15-oic acid, 13-isopropyl- \$S 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,5,6,9,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, (1R-(1.alpha.,4a.beta.,10a.alpha.))- \$S 8,13-Abietadien-18-oic acid 2-Pentene, 3-diethylboryl-2-trimethylgermyl-	466434	000127-27-5	55
			Palustic acid \$S Podocarpa-8,13-d ien-15-oic acid, 13-isopropyl- \$S 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,5,6,9,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, (1R-(1.alpha.,4a.beta.,10a.alpha.))- \$S 8,13-Abietadien-18-oic acid 2-Pentene, 3-diethylboryl-2-trimethylgermyl-	513439	001945-53-5	47
61	36.238	0.06	D:\DATABASE\DEMO.L 1H-NAPHTHO(2,3-C)PYRAM-5,10-DICONE, 3,4-DIHYDRO-7,9-DIMETHOXY-1,3-DIMETHYL-, CIS-(+,-)- \$S (+,-)-CIS-7,9-DIMETHOXY-1,3-DIMETHYL-3,4,5,10-TETRAHYDRONAPHTHO(2,3-C)PYRAM-5,10-DICONE KAUR-16-EN-18-OIC ACID \$S KAUR-16-EN-18-OIC ACID, (4.BETA.)- \$S (-)-KAURNIC ACID \$S (4-BETA)-KAUR-16-EN-18-OIC ACID 2-ACETYL-4,9-DIMETHOXY-7-METHYL-5H-FURO[3,2-C][1]-BENZOPYRAM-5-ONE	513558	084018-43-9	90
			KAUR-16-EN-18-OIC ACID \$S KAUR-16-EN-18-OIC ACID, (4.BETA.)- \$S (-)-KAURNIC ACID \$S (4-BETA)-KAUR-16-EN-18-OIC ACID	168418	020316-84-1	53
			2-ACETYL-4,9-DIMETHOXY-7-METHYL-5H-FURO[3,2-C][1]-BENZOPYRAM-5-ONE	513538	092611-83-1	50
62	36.383	0.20	D:\DATABASE\DEMO.L METHYL ABIETA-7,13-DIEN-18-OATE \$S 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, M ETHYL ESTER, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A.ALPHA.)]- \$S ABALY N \$S ABIETIC ACID METHYL ESTER Methyl abietate \$S 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,9,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, methyl ester, [1R-	258918	000127-25-3	95
			Methyl abietate \$S 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,9,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, methyl ester, [1R-	258889	000127-25-3	95

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 Integration Events: ChemStation Integrator - autoint1.e

#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- \$ \$ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl-, methyl ester \$ \$ Abalya			
			METHYL ABIETA-7,13-DIEN-18-OATE \$ \$ 480550 000127-25-3 90			
			1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4a,4b,5,6,10,10a-DECAHYDRO-1,4a-DIMETHYL-7-(1-METHYLETHYL)-, METHYL ESTER, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A.ALPHA.)]- \$ \$ ABALYN \$ \$ ABIETIC ACID METHYL ESTER			
33	36.502	0.12	D:\DATABASE\DEMO.L			
			Palustic acid \$ \$ Podocarpa-8,13-dien-15-oic acid, 13-isopropyl- \$ \$ 513439 001945-53-5 50			
			1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,5,6,9,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,10a.alpha.)]- \$ \$ 8,13-Abietadien-18-oic acid KAUR-16-EN-18-OIC ACID \$ \$ KAUR-16-EN-18-OIC ACID, (4.BETA.)- \$ \$ (-)-KAURNENOIC ACID \$ \$ (4-BETA)-KAUR-16-EN-18-OIC ACID 466436 005835-26-7 48			
			1-PHENANTHRENECARBOXYLIC ACID, 7-ETHENYL-1,2,3,4,4a,4b,5,6,7,8,10,10a-DOECAHYDRO-1,4a,7-TRIMETHYL-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,7.ALPHA.,10A.ALPHA.)]- \$ \$ ISOPIMARIC ACID \$ \$ PODOCARP-7-EN-15-OIC ACID, 13.BETA.-METHYL-13-VINYL-			
34	36.605	0.32	D:\DATABASE\DEMO.L			
			Phenol, 2,4-bis(1-phenylethyl)- \$ \$ 504578 002769-94-0 94			
			2,4-Bis(1-phenylethyl)phenol # KAUR-16-EN-18-OIC ACID \$ \$ KAUR-16-EN-18-OIC ACID, (4.BETA.)- \$ \$ (-)-KAURNENOIC ACID \$ \$ (4-BETA)-KAUR-16-EN-18-OIC ACID 513378 000514-10-3 51			
			Abietic acid \$ \$ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- \$ \$ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- \$ \$ 1-abietic acid			
35	36.751	0.50	D:\DATABASE\DEMO.L			
			Abietic acid \$ \$ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- \$ \$ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- \$ \$ 1-abietic acid 513344 000514-10-3 70			
			3-ACETYL-1-METHYL-2-(1'-METHYL-1H-INDOL-2'-YL)-1H-INDOLE 513641 000000-00-0 55			
			Abietic acid \$ \$ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,			

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 Sample :
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

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Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			10a-Decahydro-1,4a-dimethyl-7-(1-methyl-ethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- 55 Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- 55 L-abiatic acid			
6	36.978	0.57	D:\DATABASE\DEMO.L ABIETA-8,11,13-TRIEN-18-OIC ACID 5 5 PODOCARPA-8,11,13-TRIEN-15-SAEUR E, 13-ISOPROPYL- 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,9,10,10A-OCTAHYDRO-1,4A-DI METHYL-7-(1-METHYLETHYL)-, [1R-(1. ALPHA.,4A.BETA.,10A.ALPHA.)]- 55 (-)-DEHYDROABIETIC ACID 55 1,2,3,4, 4A,9,10,10A-OCTAHYDRO-1,4A-DIMETHY L-7-(1-METHYLETHYL)-1-PHENANTHRENE CARBOXYLIC ACID 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, [1R-(1. alpha.,4a.beta.,10a.alpha.)]- 55 P odocarpa-8,11,13-trien-15-oic acid , 13-isopropyl- 55 Abiata-8,11,13- trien-18-oic acid 55 Abiatic acid, dehydro-	503106	999503-11-8	99
			1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,9,10,10A-OCTAHYDRO-1,4A-DI METHYL-7-(1-METHYLETHYL)-, [1R-(1. ALPHA.,4A.BETA.,10A.ALPHA.)]- 55 (-)-DEHYDROABIETIC ACID 55 1,2,3,4, 4A,9,10,10A-OCTAHYDRO-1,4A-DIMETHY L-7-(1-METHYLETHYL)-1-PHENANTHRENE CARBOXYLIC ACID 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, [1R-(1. alpha.,4a.beta.,10a.alpha.)]- 55 P odocarpa-8,11,13-trien-15-oic acid , 13-isopropyl- 55 Abiata-8,11,13- trien-18-oic acid 55 Abiatic acid, dehydro-	503110	001740-19-8	99
			1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,9,10,10A-OCTAHYDRO-1,4A-DI METHYL-7-(1-METHYLETHYL)-, [1R-(1. ALPHA.,4A.BETA.,10A.ALPHA.)]- 55 (-)-DEHYDROABIETIC ACID 55 1,2,3,4, 4A,9,10,10A-OCTAHYDRO-1,4A-DIMETHY L-7-(1-METHYLETHYL)-1-PHENANTHRENE CARBOXYLIC ACID 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, [1R-(1. alpha.,4a.beta.,10a.alpha.)]- 55 P odocarpa-8,11,13-trien-15-oic acid , 13-isopropyl- 55 Abiata-8,11,13- trien-18-oic acid 55 Abiatic acid, dehydro-	503093	001740-19-8	99
7	37.037	0.88	D:\DATABASE\DEMO.L ABIETA-8,11,13-TRIEN-18-OIC ACID 5 5 PODOCARPA-8,11,13-TRIEN-15-SAEUR E, 13-ISOPROPYL- 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,9,10,10A-OCTAHYDRO-1,4A-DI METHYL-7-(1-METHYLETHYL)-, [1R-(1. ALPHA.,4A.BETA.,10A.ALPHA.)]- 55 (-)-DEHYDROABIETIC ACID 55 1,2,3,4, 4A,9,10,10A-OCTAHYDRO-1,4A-DIMETHY L-7-(1-METHYLETHYL)-1-PHENANTHRENE CARBOXYLIC ACID 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, [1R-(1. alpha.,4a.beta.,10a.alpha.)]- 55 P odocarpa-8,11,13-trien-15-oic acid , 13-isopropyl- 55 Abiata-8,11,13- trien-18-oic acid 55 Abiatic acid, dehydro-	503106	999503-11-8	93
			1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,9,10,10A-OCTAHYDRO-1,4A-DI METHYL-7-(1-METHYLETHYL)-, [1R-(1. ALPHA.,4A.BETA.,10A.ALPHA.)]- 55 (-)-DEHYDROABIETIC ACID 55 1,2,3,4, 4A,9,10,10A-OCTAHYDRO-1,4A-DIMETHY L-7-(1-METHYLETHYL)-1-PHENANTHRENE CARBOXYLIC ACID 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, [1R-(1. alpha.,4a.beta.,10a.alpha.)]- 55 P odocarpa-8,11,13-trien-15-oic acid , 13-isopropyl- 55 Abiata-8,11,13- trien-18-oic acid 55 Abiatic acid, dehydro-	503110	001740-19-8	78
			1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,9,10,10A-OCTAHYDRO-1,4A-DI METHYL-7-(1-METHYLETHYL)-, [1R-(1. ALPHA.,4A.BETA.,10A.ALPHA.)]- 55 (-)-DEHYDROABIETIC ACID 55 1,2,3,4, 4A,9,10,10A-OCTAHYDRO-1,4A-DIMETHY L-7-(1-METHYLETHYL)-1-PHENANTHRENE CARBOXYLIC ACID 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, [1R-(1. alpha.,4a.beta.,10a.alpha.)]- 55 P odocarpa-8,11,13-trien-15-oic acid , 13-isopropyl- 55 Abiata-8,11,13- trien-18-oic acid 55 Abiatic acid, dehydro-	503093	001740-19-8	78
8	37.231	0.31	D:\DATABASE\DEMO.L ABIETA-7,13-DIEN-18-OIC ACID 55 1- PHENANTHRENECARBOXYLIC ACID, 1,2,3 ,4,4A,4B,5,6,10,10A-DECAHYDRO- 55 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, [1 R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A .ALPHA.)]- 16-2,10A-ETHANOPHENANTHRENE, KAUR- 16-EN-18-OIC ACID DERIV. 55 KAUR-1	168419	000514-10-3	87
			16-2,10A-ETHANOPHENANTHRENE, KAUR- 16-EN-18-OIC ACID DERIV. 55 KAUR-1	513651	006730-83-2	60

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Unknown Spectrum: Apax
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area#	Library/ID	Ref#	CAS#	Qual
			6-EM-18-OIC ACID §§ KAUR-16-EM-18-OIC ACID, (4.ALPHA.)- §§ (-)-ENT-KAUR-16-EM-18-OIC ACID			
			ABIETA-7,13-DIEN-18-OIC ACID §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO- §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A.ALPHA.)]-	168420	000514-10-3	53
69	37.269	0.87	D:\DATABASE\DEMO.L ABIETA-7,13-DIEN-18-OIC ACID §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO- §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A.ALPHA.)]- 18-2,10A-ETHANOPHENANTHRENE, KAUR-16-EM-18-OIC ACID DERIV. §§ KAUR-16-EM-18-OIC ACID §§ KAUR-16-EM-18-OIC ACID, (4.ALPHA.)- §§ (-)-ENT-KAUR-16-EM-18-OIC ACID	168420	000514-10-3	70
			Abietic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-18-oic acid, 13-isopropyl- §§ L-abietic acid	513651	006730-83-2	64
			Abietic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-18-oic acid, 13-isopropyl- §§ L-abietic acid	513378	000514-10-3	55
70	37.691	2.75	D:\DATABASE\DEMO.L Abietic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-18-oic acid, 13-isopropyl- §§ L-abietic acid Abietic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-18-oic acid, 13-isopropyl- §§ L-abietic acid .beta.-Pimaric acid §§ .delta.6,8(14)-Abietadienoic acid §§ 1-Pimaric acid §§ 1-Sapietic acid	513378	000514-10-3	99
			Abietic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-18-oic acid, 13-isopropyl- §§ L-abietic acid	513347	000514-10-3	94
			.beta.-Pimaric acid §§ .delta.6,8(14)-Abietadienoic acid §§ 1-Pimaric acid §§ 1-Sapietic acid	513374	000079-34-9	90
71	38.366	0.09	D:\DATABASE\DEMO.L Abietic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- §§ Podocarpa-7,13-dien-18-oic acid, 13-isopropyl- §§ L-abietic acid	513347	000514-10-3	93

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Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

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			carpa-7,13-dien-15-oic acid, 13-isopropyl- §§ L-abiatic acid			
			Abiatic acid §§ 1-Phenanthrenecarb	513378	000514-10-3	92
			oxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- §§ Podo			
			carpa-7,13-dien-15-oic acid, 13-isopropyl- §§ L-abiatic acid			
			Abiatic acid §§ 1-Phenanthrenecarb	513344	000514-10-3	91
			oxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- §§ Podo			
			carpa-7,13-dien-15-oic acid, 13-isopropyl- §§ L-abiatic acid			
72	38.469	0.07	D:\DATABASE\DEMO.L			
			Abiatic acid §§ 1-Phenanthrenecarb	513378	000514-10-3	94
			oxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- §§ Podo			
			carpa-7,13-dien-15-oic acid, 13-isopropyl- §§ L-abiatic acid			
			Abiatic acid §§ 1-Phenanthrenecarb	513347	000514-10-3	93
			oxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- §§ Podo			
			carpa-7,13-dien-15-oic acid, 13-isopropyl- §§ L-abiatic acid			
			Abiatic acid §§ 1-Phenanthrenecarb	513344	000514-10-3	83
			oxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- §§ Podo			
			carpa-7,13-dien-15-oic acid, 13-isopropyl- §§ L-abiatic acid			
73	38.496	0.13	D:\DATABASE\DEMO.L			
			Abiatic acid §§ 1-Phenanthrenecarb	513347	000514-10-3	86
			oxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- §§ Podo			
			carpa-7,13-dien-15-oic acid, 13-isopropyl- §§ L-abiatic acid			
			Abiatic acid §§ 1-Phenanthrenecarb	513344	000514-10-3	83
			oxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- §§ Podo			
			carpa-7,13-dien-15-oic acid, 13-isopropyl- §§ L-abiatic acid			
			Abiatic acid §§ 1-Phenanthrenecarb	513378	000514-10-3	78
			oxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta			

Data Path : F:\DATA MS\data\
 Data File : WLM-200c-10pssan-2jm.D
 Acq On : 12 Oct 2019 10:27
 Operator :
 Sample :
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area#	Library/ID	Ref#	CAS#	Qual
			a.,4b.alpha.,10a.alpha.)]- 66 Podo ca-spa-7,13-dien-15-oic acid, 13-is opropyl- 66 L-abiatic acid			
74	38.820	0.07	D:\DATABASE\DEMO.L Abiatic acid 66 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylthyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- 66 Podo ca-spa-7,13-dien-15-oic acid, 13-is opropyl- 66 L-abiatic acid	513344	000514-10-3	78
			Abiatic acid 66 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylthyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- 66 Podo ca-spa-7,13-dien-15-oic acid, 13-is opropyl- 66 L-abiatic acid	513378	000514-10-3	70
			Abiatic acid 66 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylthyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- 66 Podo ca-spa-7,13-dien-15-oic acid, 13-is opropyl- 66 L-abiatic acid	513347	000514-10-3	64
75	39.003	0.14	D:\DATABASE\DEMO.L Abiatic acid 66 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylthyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- 66 Podo ca-spa-7,13-dien-15-oic acid, 13-is opropyl- 66 L-abiatic acid	513378	000514-10-3	84
			Abiatic acid 66 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylthyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- 66 Podo ca-spa-7,13-dien-15-oic acid, 13-is opropyl- 66 L-abiatic acid	513347	000514-10-3	62
			6-Hydroxy-7-isopropyl-1,4a-dimethy 1-1,2,3,4,4a,5,10,10a-octahydro-1- phenanthrenemethanol, (1.alpha., 4 a.beta., 10a.alpha.)- 66 Abiata-8,1 1,13-triene-12,18-diol †	513428	022595-48-8	46
76	41.564	0.00	D:\DATABASE\DEMO.L ABIETA-7,13-DIEN-18-OIC ACID 66 1- PHENANTHRENECARBOXYLIC ACID, 1,2,3 ,4,4A,4B,5,6,10,10A-DECAHYDRO- 66 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1, 4A-DIMETHYL-7-(1-METHYLETHYL)-, [1 R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A .ALPHA.)]-	168419	000514-10-3	60
			Abiatic acid 66 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10,	513347	000514-10-3	55

Data Path : F:\DATA MS\data\
 Data File : WLM-200c-10pssn-2jm.D
 Acq On : 12 Oct 2019 10:27
 Operator :
 Sample :
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			10a-decahydro-1,4a-dimethyl-7-(1-m ethyl ethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- 66 Podo caena-7,13-dien-15-oic acid, 13-is opropyl- 66 L-abiatic acid			
			Abiatic acid 66 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethyl ethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- 66 Podo caena-7,13-dien-15-oic acid, 13-is opropyl- 66 L-abiatic acid	513378	000314-10-3	50

Data Path : F:\DATA MS\data\
 Data File : WIM-200c-10pssan-3jm.D
 Acq On : 10 Oct 2019 10:34
 Operator :
 Sample :
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

%#	RT	Area#	Library/ID	Ref#	CAS#	Qual
1	1.962	6.68	D:\DATABASE\DEMO.L Methyl Alcohol \$\$ Methanol \$\$ Carb inol \$\$ Methyl hydroxide METHANOL \$\$ HYDROXYMETHANE \$\$ ALCO HOL, METHYL \$\$ ALCOOL METHYLIQUE Methyl Alcohol \$\$ Methanol \$\$ Carb inol \$\$ Methyl hydroxide	3073	000067-56-1	2
				3075	000067-56-1	2
				3072	000067-56-1	2
2	2.135	0.14	D:\DATABASE\DEMO.L Pentane, 2,4-dimethyl- \$\$ 2,4-Dime thylpentane PENTANE, 2,4-DIMETHYL- \$\$ 2,4-DIME THYLPENTANE \$\$ PENTANE, 2,4-DIMETH YL PENTANE, 2,4-DIMETHYL- \$\$ 2,4-DIME THYLPENTANE \$\$ PENTANE, 2,4-DIMETH YL	18750	000108-08-7	87
				19001	000108-08-7	83
				18833	000108-08-7	80
3	2.200	12.00	D:\DATABASE\DEMO.L HEXANE, 3-METHYL- \$\$ 3-METHYLHEXAN E \$\$ 2-ETHYLPENTANE \$\$ HEXANE, 3-M ETHYL HEPTANE \$\$ ALIPHATIC HYDROCARBON \$ \$ DIPROPYL METHANE \$\$ DIPROPYLMETH ANE 1-PENTANOL, 2-METHYL- \$\$ 2-METHYLP ENTAN-1-OL \$\$ (+)-2-METHYL-1-PENT ANOL \$\$ (+)-2-METHYLPENTANOL	18994	000589-34-4	64
				18986	000142-82-5	62
				19228	000105-30-6	59
4	2.243	4.59	D:\DATABASE\DEMO.L Cyclopentane, 1,3-dimethyl-, cis- \$\$ cis-1,3-Dimethylcyclopentane \$\$ 1,3-Dimethylcyclopentane cis \$\$ 1, 3-Dimethylcyclopentane # Cyclopentane, 1,3-dimethyl- \$\$ 1,3 -Dimethylcyclopentane 1,3-DIMETHYLCYCLOPENTANE \$\$ CYCLOP ENTANE, 1,3-DIMETHYL-, CIS- \$\$ 1,3 -DIMETHYLCYCLOPENTANE (CIS) \$\$ 1,3 -DIMETHYLCYCLOPENTANE CIS	62231	002532-58-3	91
				101343	002453-00-1	91
				62286	002532-58-3	91
5	2.335	7.00	D:\DATABASE\DEMO.L CYCLOHEXANE, METHYL- \$\$ METHYLCYCL HEXANE \$\$ 1-METHYLCYCLOHEXANE \$\$ CYCLOHEXANE, METHYL CYCLOHEXANE, METHYL- \$\$ METHYLCYCL HEXANE \$\$ 1-METHYLCYCLOHEXANE \$\$ CYCLOHEXANE, METHYL Cyclohexane, methyl- \$\$ Cyclohexyl methane \$\$ Hexahydrotoluene \$\$ Mat hylcyclohexane	141469	000108-87-2	96
				141470	000108-87-2	95
				141386	000108-87-2	94
6	2.421	65.09	D:\DATABASE\DEMO.L Toluene \$\$ Benzene, methyl \$\$ Meth acids \$\$ Methylbenzene BENZENE, METHYL- \$\$ METHYLBENZENE \$\$ TOLUENE \$\$ ANTISAL 1A BENZENE, METHYL- \$\$ METHYLBENZENE \$\$ TOLUENE \$\$ ANTISAL 1A	158579	000108-88-3	91
				158622	000108-88-3	91
				158625	000108-88-3	91

Data Path : F:\DATA MS\data\
 Data File : WLM-200c-10presen-3jm.D
 Acq On : 10 Oct 2019 10:34
 Operator :
 Sample :
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

%#	RT	Area%	Library/ID	Ref#	CAS#	Qual
1	1.962	6.68	D:\DATABASE\DEMO.L Methyl Alcohol §§ Methanol §§ Carb inol §§ Methyl hydroxide METHANOL §§ HYDROXYMETHANE §§ ALCO HOL, METHYL §§ ALCOOL METHYLIQUE Methyl Alcohol §§ Methanol §§ Carb inol §§ Methyl hydroxide	5073	000067-56-1	2
				5075	000067-56-1	2
				5072	000067-56-1	2
2	2.135	0.14	D:\DATABASE\DEMO.L Pentane, 2,4-dimethyl- §§ 2,4-Dime thylpentane PENTANE, 2,4-DIMETHYL- §§ 2,4-DIME THYLPENTANE §§ PENTANE, 2,4-DIMETH YL PENTANE, 2,4-DIMETHYL- §§ 2,4-DIME THYLPENTANE §§ PENTANE, 2,4-DIMETH YL	18750	000108-08-7	87
				19001	000108-08-7	83
				18833	000108-08-7	80
3	2.200	12.00	D:\DATABASE\DEMO.L HEXANE, 3-METHYL- §§ 3-METHYLHEXAN E §§ 2-ETHYLPENTANE §§ HEXANE, 3-M ETHYL HEPTANE §§ ALIPHATIC HYDROCARBON § § DIPROPYL METHANE §§ DIPROPYLMETH ANE 1-PENTANOL, 2-METHYL- §§ 2-METHYLP ENTAN-1-OL §§ (+)-2-METHYL-1-PENT ANOL §§ (+)-2-METHYLPENTANOL	18994	000589-34-4	64
				18986	000142-82-3	62
				19228	000105-30-6	59
4	2.243	4.59	D:\DATABASE\DEMO.L Cyclopentane, 1,3-dimethyl-, cis- §§ cis-1,3-Dimethylcyclopentane §§ 1,3-Dimethylcyclopentane cis §§ 1 ,3-Dimethylcyclopentane # Cyclopentane, 1,3-dimethyl- §§ 1,3 -Dimethylcyclopentane 1,3-DIMETHYLCYCLOPENTANE §§ CYCLOP ENTANE, 1,3-DIMETHYL-, CIS- §§ 1,3 -DIMETHYLCYCLOPENTANE (CIS) §§ 1,3 -DIMETHYLCYCLOPENTANE CIS	62231	002532-58-3	91
				101343	002453-00-1	91
				62286	002532-58-3	91
5	2.335	7.00	D:\DATABASE\DEMO.L CYCLOHEXANE, METHYL- §§ METHYLCYCL OHEXANE §§ 1-METHYLCYCLOHEXANE §§ CYCLOHEXANE, METHYL CYCLOHEXANE, METHYL- §§ METHYLCYCL OHEXANE §§ 1-METHYLCYCLOHEXANE §§ CYCLOHEXANE, METHYL Cyclohexane, methyl- §§ Cyclohexyl methane §§ Hexahydrotoluene §§ Met hylcyclohexane	141469	000108-87-2	96
				141470	000108-87-2	95
				141386	000108-87-2	94
6	2.421	65.09	D:\DATABASE\DEMO.L Toluene §§ Benzene, methyl §§ Meth acide §§ Methylbenzene BENZENE, METHYL- §§ METHYLBENZENE §§ TOLUENE §§ ANTISAL 1A BENZENE, METHYL- §§ METHYLBENZENE §§ TOLUENE §§ ANTISAL 1A	158579	000108-88-3	91
				158622	000108-88-3	91
				158625	000108-88-3	91

Data Path : F:\DATA MS\daa\
 Data File : WLM-200c-10pssan-3jm.D
 Acq On : 10 Oct 2019 10:34
 Operator :
 Sample :
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

#	RT	Area%	Library/ID	Ref#	CAS#	Qual
7	2.745	0.89	D:\DATABASE\DEMO.L Cyclohexane, ethyl- §§ Ethylcyclohexane §§ CYCLOHEXANE, ETHYL- §§ ETHYLCYCLOHEXANE §§ ETHYLCYCLOHEXANE §§ ETHYLCYCLOHEXANE Cyclohexane, ethyl- §§ Ethylcyclohexane §§	141508	001678-91-7	93
8	30.544	0.06	D:\DATABASE\DEMO.L 2-Ethylthio-5-chloro-pyrimidin-4(3H)-one §§ 5-Chloro-2-(ethylsulfanyl)-4(3H)-pyrimidinone # 5-(2-Methoxy-phenyl)-2H-pyrazol-3-ol METHYL 5-((Z)-[5-((Z)-((5E)-5-[(2-CYANO-2,3,3-TRIMETHYL-3,4-DIHYDRO-2H-PYRROL-5-YL)METHYLENE]-4,4-DIMETHYLPYRROLIDINYLIDENE)METHYL)-3,4-DIMETHYL-2H-PYRROL-2-YLIDENE]METHYL)-3,4-DIMETHYL-1H-PYRROLE-2-C §§ 6,10-DITHIASPIRO[4.5]DECAN-1-OL	402529	106146-79-6	42
9	31.689	0.08	D:\DATABASE\DEMO.L 3-HYDROXY-2,2,5,8-TETRAMETHYL-2H-NAPHTHO[1,8-BE]FURAN-6,7-DIONE §§ 2-H-NAPHTHO[1,8-BE]FURAN-6,7-DIONE, 3-HYDROXY-2,2,5,8-TETRAMETHYL-1-METHOXY-6,8A,7,8-TETRAHYDRO-6,6-DIMETHYL-9H-DIBENZO[B,D]PYRAN-9-ONE 2H-Napththo[1,8-bc]furan-6,7-dione, 3-hydroxy-2,2,5,8-tetramethyl- §§ 3-Hydroxy-2,2,5,8-tetramethyl-2H-napththo[1,8-bc]furan-6,7-dione #	481954	018142-17-1	70
10	31.981	0.07	D:\DATABASE\DEMO.L 1,1':2',1"-TERPHENYL, 4'-ETHYL- §§ 4-ETHYL-1,2-DIPHENYL-BENZENE §§ 4-ETHYL-1,2-DIPHENYLBENZENE §§ O-TERPHENYL, 4'-ETHYL- (+)-(3S*,4AS*,9AS*)-7-HYDROXY-3,6,8,9,9-PENTAMETHYL-1,2,3,4,4A,9A-HEXAHYDROFLURENE DIBENZOFURAN, 1,3,4-TRIMETHOXY- §§ 1,3,4-TRIMETHOXYDIBENZOFURAN	482059	061875-99-8	91
11	33.493	0.10	D:\DATABASE\DEMO.L Phenanthrene, 7-ethenyl-1,2,3,4,4a,5,6,7,8,9,10,10a-dodecahydro-1,1,4a,7-tetramethyl- §§ Pimara-8,15-diene # KAURA-5,16-DIEN-18-OL §§ KAURA-5,16-DIEN-18(OR 19)-OL §§ KAURA-5,16-DIEN-19-OL PREGN-7-ENE, (5.ALPHA.)- §§ 5.ALPH A.-PREGN-7-ENE	481092	055255-56-6	92
12	33.855	0.09	D:\DATABASE\DEMO.L			

Data Path : F:\DATA MS\daa\
 Data File : WLM-200c-10pssan-3jm.D
 Acq On : 10 Oct 2019 10:34
 Operator :
 Sample :
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

k#	RT	Area#	Library/ID	Ref#	CAS#	Qual
			1-Methyl-10,18-bisnorabieta-8,11,13-triene	466158	999466-16-6	94
			10,13-DIMETHYL-4,5,6,7,8,9,10,11,12,13,14,15-DODECAHYDRO-1H-CYCLOPENTA[A]PHENANTHRENE §§ ANDROSTA-2,16-DIENE	466180	999466-18-8	90
			4-(N-METHYLAMINO)-6,7-(1,2,3,4-TETRAHYDRO-1,1,4,4-TETRAMETHYLBENZO)INDOLE	466219	000000-00-0	83
13	35.481	0.85	D:\DATABASE\DEMO.L Xanthen-9-one, 1-Hydroxy-3,5,8-trimethoxy- §§ 5,8-Dimethylbellidifolin §§ 1-Hydroxy-3,5,8-trimethoxyxanthan-9-one §§ 1-Hydroxy-3,5,8-trimethoxy-9H-xanthen-9-one # 1-PHENANTHRENECARBOXYLIC ACID, 7-E THENYL-1,2,3,4,4A,4B,5,6,7,8,10,10A-DODECAHYDRO-1,4A,7-TRIMETHYL-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,7.ALPHA.,10A.ALPHA.)]- §§ ISOPIMARIC ACID §§ PODOCARP-7-EN-15-OIC ACID, 13.BETA.-METHYL-13-VINYLANDROST-5-en-17-ol, 4,4-dimethyl-	504393	049399-09-9	68
				466436	005835-26-7	50
				513436	999513-44-9	48
14	35.670	0.10	D:\DATABASE\DEMO.L Morphinan-6-one, 4,5-epoxy-3,14-dihydroxy-, (5.alpha.)- 1H-Indole-3-carboxylic acid, 1-cyclopentyl-5-hydroxy-2-methyl-, ethyl ester PIMARA-8(14),15-DIEN-18-OIC ACID § § 1-PHENANTHRENECARBOXYLIC ACID, 7-ETHENYL-1,2,3,4,4A,4B,5,6,7,9,10,10A-DODECAHYDRO-1,4A,7-TRIMETHYL-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,7.BETA.,10A.ALPHA.)]- §§ (+)-PIMARIC ACID §§ .ALPHA.-PIMARIC ACID	504394	033522-95-1	44
				504368	999504-38-0	43
				504609	000127-27-5	30
15	35.751	0.17	D:\DATABASE\DEMO.L DEHYDROABIETIC ACID 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-, methyl ester, [1R-(1.alpha.,4a.beta.,10a.alpha.)]- §§ Podocarpa-8,11,13-trien-15-oic acid, 13-isopropyl-, methyl ester §§ Methyl dehydroabietat METHYL ABIETA-8,11,13-TRIEN-18-OATE §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,9,10,10A-OCTAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, METHYL ESTER, [1R-(1.ALPHA.,4A.BETA.,10A.ALPHA.)]- §§ DEHYDROABIETIC ACID METHYL ESTER §§ METHYL DEHYDROABIETATE	464556	000000-00-0	97
				464538	001235-74-1	94
				464550	001235-74-1	94
16	35.897	0.10	D:\DATABASE\DEMO.L 2-BUTYL-5-HEXYLINDANE §§ INDAN, 2-	398768	025446-32-6	62

Data Path : F:\DATA MS\daa\
 Data File : WLM-200c-10preea-3jm.D
 Acq On : 10 Oct 2019 10:34
 Operator :
 Sample :
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

Pk#	RT	Area#	Library/ID	Ref#	CAS#	Qual
			BUTYL-5-HEXYL- §§ 2-N-BUTYL-1-N-HEXYL-2,3-DIHYDROINDENE §§ 2-N-BUTYL-5-N-HEXYL-(2,3-DIHYDROINDENE)			
			Indan, 2-butyl-5-hexyl- §§ 2-n-Butyl-5-n-hexyl-(2,3-dihydroindane) § § 2-n-Butyl-5-n-hexylindane §§ 2-Butyl-5-hexylindane #	398758	025446-32-6	62
			Pinacic acid §§ 1-Phenanthrenecarboxylic acid, 7-ethanyl-1,2,3,4,4a,4b,5,6,7,9,10,10a-dodecahydro-1,4a,7-trimethyl-, [(1R-(1.alpha.,4a.beta.ta.,4b.alpha.,7.beta.,10a.alpha.))- §§ Podocarp-8(14)-en-13-oic acid, 13.alpha.-methyl-13-vinyl- §§ Dipinic acid	466434	000127-27-5	46
17	36.383	0.03	D:\DATABASE\DEMO.L			
			Methyl abietate §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, methyl ester, [(1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.))- §§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl-, methyl ester §§ Abalyn	480547	000127-25-3	90
			METHYL ABIETA-7,13-DIEN-18-OATE §§ 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,4B,5,6,10,10A-DECAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, METHYL ESTER, [(1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A.ALPHA.))- §§ ABALYN	480550	000127-25-3	90
			Methyl abietate §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, methyl ester, [(1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.))- §§ Podocarpa-7,13-dien-15-oic acid, 13-isopropyl-, methyl ester §§ Abalyn	258889	000127-25-3	84
18	36.599	0.05	D:\DATABASE\DEMO.L			
			Phenol, 2,4-bis(1-phenylethyl)- §§ 2,4-Bis(1-phenylethyl)phenol #	504378	002769-94-0	89
			KAUR-16-EN-18-OIC ACID §§ KAUR-16-EN-18-OIC ACID, (4.BETA.)- §§ (-)-KAURNIC ACID §§ (4-BETA)-KAUR-16-EN-18-OIC ACID	168418	020316-84-1	55
			3-ACETYL-1-METHYL-2-(1'-METHYL-1H-INDOL-2'-YL)-1H-INDOLE	513641	000000-00-0	53
19	36.745	0.10	D:\DATABASE\DEMO.L			
			1H-NAPHTHO[2,3-C]PYRAM-5,10-DIONE, 3,4-DIHYDRO-7,9-DIMETHOXY-1,3-DIMETHYL-, CIS-(+,-)- §§ (+,-)-CIS-7,9-DIMETHOXY-1,3-DIMETHYL-3,4,5,10-TETRAHYDRONAPHTHO[2,3-C]PYRAM-5,10-DIONE	513558	084018-43-9	91
			1H-NAPHTHO[2,3-C]PYRAM-5,10-DIONE, 3,4-DIHYDRO-7,9-DIMETHOXY-1,3-DIMETHYL-, CIS-(+,-)- §§ (+,-)-CIS-7,9-DIMETHOXY-1,3-DIMETHYL-3,4,5,10-TETRAHYDRONAPHTHO[2,3-C]PYRAM-5,10-DIONE	513557	084018-44-0	91

Data Path : F:\DATA MS\data\
 Data File : WLM-200c-10pmsen-3jm.D
 Acq On : 10 Oct 2019 10:34
 Operator :
 Sample :
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0
 Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

%#	RT	Area#	Library/ID	Ref#	CAS#	Qual
			3,4-DIHYDRO-7,9-DIMETHOXY-1,3-DIMETHYL-, TRANS-(+,-)- 55 (+,-)-DEOXYQUINONE A DIMETHYL ETHER 55 (+,-)-TRANS-7,9-DIMETHOXY-1,3-DIMETHYL-3,4,5,10-TETRAHYDRONAPHTHO[2,3-C]PYRAN-5,10-DIONE KAUR-16-EN-18-OIC ACID 55 KAUR-16-EN-18-OIC ACID, (4.BETA.)- 55 (-)-KAURNEOIC ACID 55 (4-BETA)-KAUR-16-EN-18-OIC ACID	168418	020316-84-1	64
20	36.972	0.21	D:\DATABASE\DEMO.L ABIETA-8,11,13-TRIEN-18-OIC ACID 5 5 PODOCARPA-8,11,13-TRIEN-15-SAEUR E, 13-ISOPROPYL-1-Phenanthrene-8-carboxylic acid, 1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,10a.alpha.)]- 55 P odocarpa-8,11,13-trien-15-oic acid, 13-isopropyl- 55 Abieta-8,11,13-trien-18-oic acid 55 Abietic acid, dehydro-1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,9,10,10A-OCTAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, [1R-(1.ALPHA.,4A.BETA.,10A.ALPHA.)]- 55 (-)-DEHYDROABIETIC ACID 55 1,2,3,4,4A,9,10,10A-OCTAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-1-PHENANTHRENE CARBOXYLIC ACID	503106	999503-11-8	99
			1-Phenanthrene-8-carboxylic acid, 1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,10a.alpha.)]- 55 P odocarpa-8,11,13-trien-15-oic acid, 13-isopropyl- 55 Abieta-8,11,13-trien-18-oic acid 55 Abietic acid, dehydro-1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,9,10,10A-OCTAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, [1R-(1.ALPHA.,4A.BETA.,10A.ALPHA.)]- 55 (-)-DEHYDROABIETIC ACID 55 1,2,3,4,4A,9,10,10A-OCTAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-1-PHENANTHRENE CARBOXYLIC ACID	503093	001740-19-8	96
			1-Phenanthrene-8-carboxylic acid, 1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,10a.alpha.)]- 55 P odocarpa-8,11,13-trien-15-oic acid, 13-isopropyl- 55 Abieta-8,11,13-trien-18-oic acid 55 Abietic acid, dehydro-1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,9,10,10A-OCTAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, [1R-(1.ALPHA.,4A.BETA.,10A.ALPHA.)]- 55 (-)-DEHYDROABIETIC ACID 55 1,2,3,4,4A,9,10,10A-OCTAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-1-PHENANTHRENE CARBOXYLIC ACID	503110	001740-19-8	96
21	37.031	0.41	D:\DATABASE\DEMO.L 1-Phenanthrene-8-carboxylic acid, 1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,10a.alpha.)]- 55 P odocarpa-8,11,13-trien-15-oic acid, 13-isopropyl- 55 Abieta-8,11,13-trien-18-oic acid 55 Abietic acid, dehydro-1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,9,10,10A-OCTAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, [1R-(1.ALPHA.,4A.BETA.,10A.ALPHA.)]- 55 (-)-DEHYDROABIETIC ACID 55 1,2,3,4,4A,9,10,10A-OCTAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-1-PHENANTHRENE CARBOXYLIC ACID FERROCENE, 1-ACETYL-1'-(TRIMETHYLSILYL)- 55 KETONE, METHYL 1'-(TRIMETHYLSILYL)FERROCENYL 55 1-ACETYL-1'-(TRIMETHYLSILYL)FERROCENE 55 3,3'-DIDEUTERIC-1-ACETYL-1'-(TRIMETHYLSILYL)FERROCENE	503093	001740-19-8	70
			1-Phenanthrene-8-carboxylic acid, 1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,10a.alpha.)]- 55 P odocarpa-8,11,13-trien-15-oic acid, 13-isopropyl- 55 Abieta-8,11,13-trien-18-oic acid 55 Abietic acid, dehydro-1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,9,10,10A-OCTAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-, [1R-(1.ALPHA.,4A.BETA.,10A.ALPHA.)]- 55 (-)-DEHYDROABIETIC ACID 55 1,2,3,4,4A,9,10,10A-OCTAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-1-PHENANTHRENE CARBOXYLIC ACID FERROCENE, 1-ACETYL-1'-(TRIMETHYLSILYL)- 55 KETONE, METHYL 1'-(TRIMETHYLSILYL)FERROCENYL 55 1-ACETYL-1'-(TRIMETHYLSILYL)FERROCENE 55 3,3'-DIDEUTERIC-1-ACETYL-1'-(TRIMETHYLSILYL)FERROCENE	503110	001740-19-8	70
			FERROCENE, 1-ACETYL-1'-(TRIMETHYLSILYL)- 55 KETONE, METHYL 1'-(TRIMETHYLSILYL)FERROCENYL 55 1-ACETYL-1'-(TRIMETHYLSILYL)FERROCENE 55 3,3'-DIDEUTERIC-1-ACETYL-1'-(TRIMETHYLSILYL)FERROCENE	513500	033307-60-7	53
22	37.231	0.10	D:\DATABASE\DEMO.L ABIETA-7,13-DIEN-18-OIC ACID 55 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3	168419	000514-10-3	91

Data Path : F:\DATA MS\data\
 Data File : WLM-200c-10pssan-3jm.D
 Acq On : 10 Oct 2019 10:34
 Operator :
 Sample :
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

#	RT	Area#	Library/ID	Ref#	CAS#	Qual
			,4,4a,4b,5,6,10,10a-DECAHYDRO- 66 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4a,4b,5,6,10,10a-DECAHYDRO-1, 4a-DIMETHYL-7-(1-METHYLETHYL)-, [1 R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,10A .ALPHA.)]-			
			ABIETA-8,11,13-TRIEN-18-OIC ACID 6 6 1-PHENANTHRENECARBOXYLIC ACID, 1 ,2,3,4,4a,5,10,10a-OCTAHYDRO-1,4a- DIMETHYL-7-(1-METHYLETHYL)-, [1S-(1.ALPHA.,4A.ALPHA.,10A.BETA.)]- 66	503112	005155-70-4	91
			13-ISOPROPYLODOCCARPA-8,11,13-TRI EN-18-OIC ACID 66 4-EPIABIETIC ACI D, DEHYDRO- 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,5,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, [1S-(1. alpha.,4a.alpha.,10a.beta.)]- 66 P odocarpa-8,11,13-trien-18-oic acid , 13-isopropyl- 66 Callitricic aci d 66 4-Epiabietic acid, dehydro-	503094	005155-70-4	91
13	37.669	1.09	D:\DATABASE\DEMO.L Abietic acid 66 1-Phenanthrenecarb oxyllic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- 66 Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- 66 L-abietic acid	513378	000514-10-3	99
			Abietic acid 66 1-Phenanthrenecarb oxyllic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- 66 Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- 66 L-abietic acid	513344	000514-10-3	96
			Abietic acid 66 1-Phenanthrenecarb oxyllic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.bet a.,4b.alpha.,10a.alpha.)]- 66 Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- 66 L-abietic acid	513347	000514-10-3	94

DATA PATH : F:\DATA MS\022\
 Data File : WLM-200c-10pmsen-4jm.D
 Acq On : 12 Oct 2019 8:49
 Operator :
 Sample :
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex

Integration Events: ChemStation Integrator - autoint1.e

k#	RT	Area%	Library/ID	Ref#	CAS#	Qual
1	1.962	6.25	D:\DATABASE\DEMO.L Methyl Alcohol §§ Methanol §§ Carb inol §§ Methyl hydroxide METHANOL §§ HYDROXYMETHANE §§ ALCO HOL, METHYL §§ ALCOOL METHYLIQUE Methyl Alcohol §§ Methanol §§ Carb inol §§ Methyl hydroxide	3073	000067-56-1	2
				3075	000067-56-1	2
				3072	000067-56-1	2
2	2.135	0.16	D:\DATABASE\DEMO.L Pentane, 2,4-dimethyl- §§ 2,4-Dime thylpentane PENTANE, 2,4-DIMETHYL- §§ 2,4-DIME THYLPENTANE §§ PENTANE, 2,4-DIMETH YL PENTANE, 2,4-DIMETHYL- §§ 2,4-DIME THYLPENTANE §§ PENTANE, 2,4-DIMETH YL	18750	000108-08-7	87
				63648	000108-08-7	83
				18833	000108-08-7	80
3	2.200	11.33	D:\DATABASE\DEMO.L HEXANE, 3-METHYL- §§ 3-METHYLHEXAN E §§ 2-ETHYLPENTANE §§ HEXANE, 3-M ETHYL HEPTANE §§ ALIPHATIC HYDROCARBON § § DIPROPYL METHANE §§ DIPROPYLMETH ANE Hexane, 3-methyl- §§ 2-Ethylpentan e §§ 3-Methylhexane	18994	000589-34-4	64
				18986	000142-82-5	58
				18743	000589-34-4	58
4	2.243	4.40	D:\DATABASE\DEMO.L 1,3-DIMETHYLCYCLOPENTANE §§ CYCLOP ENTANE, 1,3-DIMETHYL-, CIS- §§ 1,3 -DIMETHYLCYCLOPENTANE (CIS) §§ 1,3 -DIMETHYLCYCLOPENTANE CIS Cyclopentane, 1,3-dimethyl- §§ 1,3 -Dimethylcyclopentane Cyclopentane, 1,3-dimethyl-, cis- §§ cis-1,3-Dimethylcyclopentane §§ 1,3-Dimethylcyclopentane cis §§ 1 ,3-Dimethylcyclopentane #	62286	002532-58-3	91
				101343	002453-00-1	91
				62231	002532-58-3	91
5	2.335	6.63	D:\DATABASE\DEMO.L CYCLOHEXANE, METHYL- §§ METHYLCYCL HEXANE §§ 1-METHYLCYCLOHEXANE §§ CYCLOHEXANE, METHYL CYCLOHEXANE, METHYL- §§ METHYLCYCL HEXANE §§ 1-METHYLCYCLOHEXANE §§ CYCLOHEXANE, METHYL CYCLOHEXANE, METHYL- §§ METHYLCYCL HEXANE §§ 1-METHYLCYCLOHEXANE §§ CYCLOHEXANE, METHYL	141469	000108-87-2	96
				141470	000108-87-2	95
				141467	000108-87-2	95
6	2.421	60.77	D:\DATABASE\DEMO.L Toluene §§ Benzene, methyl §§ Meth acide §§ Methylbenzene Toluene §§ Benzene, methyl §§ Meth acide §§ Methylbenzene BENZENE, METHYL- §§ METHYLBENZENE §§ TOLUENE §§ ANTISAL 1A	158580	000108-88-3	91
				158579	000108-88-3	91
				158625	000108-88-3	91

Data Path : F:\DATA MS\daa\
 Data File : WLM-200c-10psen-4jm.D
 Acq On : 12 Oct 2019 8:49
 Operator :
 Sample :
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

k#	RT	Area%	Library/ID	Ref#	CAS#	Qual
7	2.746	1.12	D:\DATABASE\DEMO.L Cyclohexane, ethyl- §§ Ethylcycloh axane CYCLOHEXANE, ETHYL- §§ ETHYLCYCLOH EXANE §§ ETHYL CYCLOHEXANE §§ ETHY LCYCLOHEXAN Cyclohexane, ethyl- §§ Ethylcycloh axane	141506	001678-91-7	93
				141561	001678-91-7	93
				141508	001678-91-7	93
8	2.870	0.57	D:\DATABASE\DEMO.L 1,3,5-Cycloheptatriene §§ Tropilid ene §§ Cyclohepta-1,3,5-triene §§ Cycloheptatriene BENZENE, METHYL- §§ METHYLBENZENE §§ TOLUENE §§ ANTISAL 1A 1,3,5-CYCLOHEPTATRIENE §§ CYCLOHEP TA-1,3,5-TRIENE §§ CYCLOHEPTATRIEN E §§ CYCLOHEPTATRIENE [UM2603] [FL AMMABLE LIQUID]	158600	000544-25-2	81
				158623	000108-88-3	81
				158636	000544-25-2	76
9	17.304	0.02	D:\DATABASE\DEMO.L 2H-2,4a-Methanonaphthalene, 1,3,4, 5,6,7-hexahydro-1,1,3,5-tetramethy l-, (2S)- §§ 2H-2,4a-Methanonaphth alene, 1,3,4,5,6,7-hexahydro-1,1,3 ,5-tetramethyl-, (2S,4aR)-(-)- §§ Isolongifolene §§ (-)-Isolongifoli ne 2H-2,4a-METHANONAPHTHALENE, 1,3,4, 5,6,7-HEXAHYDRO-1,1,3,5-TETRAMETHY L-, (2S)- §§ (-)-ISOLONGIFOLENE §§ (-)-ISOLONGIFOLINE §§ (2S)-1,3,4, 5,6,7-HEXAHYDRO-1,1,3,5-TETRAMETHY L-2H-2,4a-METHANONAPHTHALENE 2H-2,4a-Methanonaphthalene, 1,3,4, 5,6,7-hexahydro-1,1,3,5-tetramethy l-, (2S)- §§ 2H-2,4a-Methanonaphth alene, 1,3,4,5,6,7-hexahydro-1,1,3 ,5-tetramethyl-, (2S,4aR)-(-)- §§ Isolongifolene §§ (-)-Isolongifoli ne	350641	001135-66-6	98
				350804	001135-66-6	98
				350640	001135-66-6	97
10	17.725	0.00	D:\DATABASE\DEMO.L 2-METHOXY-4-(METHOXYMETHYL)-6-METH YLNICOTINONITRILE §§ PYRIDINE-3-CR BONITRILE, 2,4-DIMETHOXY-6-METHYL Taurolidine §§ 2H-1,2,4-Thiadiazin e, 4,4'-methylenebis(tetrahydro-, 1,1,1',1'-tetraoxide §§ 4,4'-Methy lenebis(tetrahydro-1,2,4-thiadiazin e 1,1-dioxide) §§ Taurolin 4-BROMO-N-[(6-METHYL-2-PYRIDYL)AMI NOMETHYL]PHTHALIMIDE §§ 5-BROMO-2- {[(6-METHYL-2-PYRIDINYL)AMINO]METH YL}-1H-ISOINDOLE-1,3(2H)-DIONE	7347	063644-84-8	9
				4983	019388-87-5	9
				7473	999007-47-4	4
11	30.215	0.04	D:\DATABASE\DEMO.L 4,7-Dimethoxy-2-methyl-1H-indene METHYL 5-((Z)-[5-((Z)-((5Z)-5-[(2-	402559	999402-56-3	47
				402636	070067-95-7	46

Data Path : F:\DATA MS\daa\
 Data File : WLM-200c-10pssan-4jm.D
 Acq On : 12 Oct 2019 8:49
 Operator :
 Sample :
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

k#	RT	Area#	Library/ID	Ref#	CAS#	Qual
			CYANO-2,3,3-TRIMETHYL-3,4-DIHYDRO-2H-PYRROL-5-YL(METHYLENE)-4,4-DIMETHYLPYRROLIDINYLIDENE(METHYL)-3,4-DIMETHYL-2H-PYRROL-2-YLIDENE(METHYL)-3,4-DIMETHYL-1H-PYRROLE-2-C §§ 6,10-DITHIASPIRO[4.5]DECAN-1-OL	402529	106146-79-6	45
			2-Ethylthio-5-chloro-pyrimidin-4(3H)-one §§ 5-Chloro-2-(ethylsulfany			
			1)-4(3H)-pyrimidinone #			
12	30.301	0.02	D:\DATABASE\DEMO.L			
			ENT-PINARA-8,15-DIENE	481166	021561-92-2	95
			1,1,4A-TRIMETHYL-6-METHYLENE-5-[(2E)-3-METHYL-2,4-PENTADIENYL]DECARY	481156	005957-33-5	90
			DRONAPHTHALENE §§ NAPHTHALENE, DEC			
			ANHYDRO-1,1,4A-TRIMETHYL-6-METHYLEN			
			E-5-(3-METHYL-2,4-PENTADIENYL)- [
			4AS-(4A.ALPHA.,5.ALPHA.,8A.BETA.)			
			- §§ BIFORMEN §§ BIFORMENE			
			Naphthalene, decahydro-1,1,4a-trim	481091	005957-33-5	90
			ethyl-6-methylene-5-(3-methyl-2,4-			
			pentadienyl)- [4as-(4a.alpha.,5.a			
			lpha.,8a.beta.)]- §§ Labda-8(20),1			
			2,14-triene §§ Biformen §§ Biforme			
			ne			
13	30.544	0.07	D:\DATABASE\DEMO.L			
			2-Ethylthio-5-chloro-pyrimidin-4(3H)-one §§ 5-Chloro-2-(ethylsulfany	402529	106146-79-6	90
			1)-4(3H)-pyrimidinone #			
			METHYL 5-(2)-[5-(2)-(5Z)-5-[(2-	402636	070067-95-7	83
			CYANO-2,3,3-TRIMETHYL-3,4-DIHYDRO-2H-PYRROL-5-YL(METHYLENE)-4,4-DIME			
			THYLPYRROLIDINYLIDENE(METHYL)-3,4-			
			DIMETHYL-2H-PYRROL-2-YLIDENE(METHY			
			L)-3,4-DIMETHYL-1H-PYRROLE-2-C §§			
			6,10-DITHIASPIRO[4.5]DECAN-1-OL			
			4-ISOPROPYLIDENE-2-ADAMANTANONE	402783	000000-00-0	49
14	30.755	0.01	D:\DATABASE\DEMO.L			
			6-ETHYL-2-METHYL-4,6-DIHYDRO-2H-[1,4]OXAZINO[3,2-C]QUINOLINE-3,5-DIO	7414	334023-40-4	38
			NE §§ 6-ETHYL-2-METHYL-2H-1-OXA-4,			
			6-PHENANTHROLINE-3,5(4H,6H)-DIONE			
			§§ 6-ETHYL-2-METHYL-6,10B-DIHYDRO-			
			2H-[1,4]OXAZINO[3,2-C]QUINOLINE-3,			
			5-DIONE			
			(+)-METHYL HERITOL	484	000000-00-0	14
			4-(METHOXYMETHYL)-6-METHYL-2-PHEMO	7413	332057-36-0	12
			XYNICOTINONITRILE §§ PYRIDINE-3-CAR			
			BONITRILE, 4-METHOXYMETHYL-6-METH			
			YL-2-PHENOXY-			
15	30.868	0.03	D:\DATABASE\DEMO.L			
			3-Phenyl-4-acetylfluorene §§ 2-Phenyl	467987	033777-97-8	64
			-5H-indeno[1,2-b]pyridine #			
			5-METHYLBENZO[C]ACRIDINE §§ BENZ[C	468083	003519-87-7	64
			]ACRIDINE, 5-METHYL- §§ 5-METHYLE			
			NZ(C)ACRIDINE §§ 5-METHYLBENZO(C)A			

Data Path : F:\DATA MS\data\
 Data File : WLM-200c-10pssan-4jm.D
 Acq On : 12 Oct 2019 8:49
 Operator :
 Sample :
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

k#	RT	Area#	Library/ID	Ref#	CAS#	Qual
			CRIDINE			
			1,6-Ditritylfructose triacetate	469118	999469-12-6	64
16	30.944	0.00	D:\DATABASE\DEMO.L			
			6-ETHYL-2-METHYL-4,6-DIHYDRO-2H-[1,4]OXAZINO[3,2-C]QUINOLINE-3,5-DIONE §§ 6-ETHYL-2-METHYL-2H-1-OXA-4,6-PHENANTHROLINE-3,5(4H,6H)-DIONE §§ 6-ETHYL-2-METHYL-6,10B-DIHYDRO-2H-[1,4]OXAZINO[3,2-C]QUINOLINE-3,5-DIONE	7414	334023-40-4	43
			4-(METHOXYMETHYL)-6-METHYL-2-PHENOXYNICOTINONITRILE §§ PYRIDINE-3-CARBONITRILE, 4-METHOXYMETHYL-6-METHYL-2-PHENOXY-	7413	332057-36-0	27
			2,2,3,3,4,4,5,5-OCTAFLUORO-N-(3-METHOXYPHENYL)PENTANAMIDE §§ PENTANAMIDE, 2,2,3,3,4,4,5,5-OCTAFLUORO-N-(3-METHOXYPHENYL)-	7474	339166-43-7	10
17	31.084	0.01	D:\DATABASE\DEMO.L			
			4-(METHOXYMETHYL)-6-METHYL-2-PHENOXYNICOTINONITRILE §§ PYRIDINE-3-CARBONITRILE, 4-METHOXYMETHYL-6-METHYL-2-PHENOXY-	7413	332057-36-0	25
			(+)-METHYL HERITOL	484	000000-00-0	14
			2-METHOXY-4-(METHOXYMETHYL)-6-METHYLNICOTINONITRILE §§ PYRIDINE-3-CARBONITRILE, 2,4-DIMETHOXY-6-METHYL	7347	063644-84-8	9
18	31.192	0.05	D:\DATABASE\DEMO.L			
			5-METHYLBENZO[C]ACRIDINE §§ BENZ[C]ACRIDINE, 5-METHYL- §§ 5-METHYLBENZO[C]ACRIDINE §§ 5-METHYLBENZO[C]ACRIDINE	468083	003519-87-7	64
			10-METHYLBENZO[A]ACRIDINE §§ BENZ[A]ACRIDINE, 10-METHYL- §§ 10-METHYLBENZO[A]ACRIDINE	468080	003781-67-7	64
			3-Pentan-2-one, 1,1,1,4-tetraphenyl §§ (3Z)-1,1,1,4-Tetraphenyl-3-pentan-2-one #	468776	097991-11-2	64
19	31.306	0.01	D:\DATABASE\DEMO.L			
			6-ETHYL-2-METHYL-4,6-DIHYDRO-2H-[1,4]OXAZINO[3,2-C]QUINOLINE-3,5-DIONE §§ 6-ETHYL-2-METHYL-2H-1-OXA-4,6-PHENANTHROLINE-3,5(4H,6H)-DIONE §§ 6-ETHYL-2-METHYL-6,10B-DIHYDRO-2H-[1,4]OXAZINO[3,2-C]QUINOLINE-3,5-DIONE	7414	334023-40-4	10
			(+)-METHYL HERITOL	484	000000-00-0	8
20	31.684	0.10	D:\DATABASE\DEMO.L			
			3,4-DIHYDRO-7,12-DIMETHYLBENZ[A]ANTHRACENE	482069	000000-00-0	90
			(+)-(3S*,4R*,9AS*)-7-HYDROXY-3,6,8,9,9-PENTAMETHYL-1,2,3,4,4A,8A-HEXAHYDROFLUORENE	482050	000000-00-0	90
			3-HYDROXY-2,2,5,8-TETRAMETHYL-2H-N	481954	018142-17-1	64

58.M Fri Oct 18 09:31:28 2019

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Data Path : F:\DATA MS\daa\
 Data File : WLM-200c-10pssan-4jm.D
 Acq On : 12 Oct 2019 8:45
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 Sample :
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			APHTHO[1,8-BC]FURAN-6,7-DIONE §§ 2 H-NAPHTHO[1,8-BC]FURAN-6,7-DIONE, 3-HYDROXY-2,2,5,8-TETRAMETHYL-			
11	31.835	0.01	D:\DATABASE\DEMO.L 1-Hexadecanamine §§ Hexadecylamine §§ n-Cetylamine §§ n-Hexadecylami ne PHENOL, 2-SEC-BUTYL-4-(METHYLTHIO) -6-NITRO- 132 000000-00-0 4 CYCLOPROPANECARBONYL CHLORIDE, 2,2 -DIBROMO-1-METHYL- §§ 2,2-DIBROMO- 1-METHYLCYCLOPROPANECARBONYL CHLOR IDE 7425 005365-22-0 1	4902	000143-27-1	9
12	31.976	0.09	D:\DATABASE\DEMO.L 3,4-DIHYDRO-7,12-DIMETHYLBENZ(A)AN THRACENE 482069 000000-00-0 90 (+)-(3S*,4AS*,9AS*)-7-HYDROXY-3,6 8,9,9-PENTAMETHYL-1,2,3,4,4A,8A-H EXAHYDROFLURENE 482050 000000-00-0 90 TETRAETHYLDICHLOROBENZENE 468172 000000-00-0 83	482069	000000-00-0	90
13	32.100	0.03	D:\DATABASE\DEMO.L 2(1H)-Phenanthrenone, 3,4,4a,9,10, 10a-hexahydro-7-methoxy-1,1,4a-tri methyl- §§ 13-Methoxy podocarpa-8,1 1,13-trien-3-one # 481103 055255-51-1 43 Bis(acetylacetonato)cobalt §§ CoBa lt, bis(2,4-pentanedionato-O,O')-, (T-4)- §§ Cobalt, bis(2,4-pentane dionato)- §§ Acetylacetonato cobalt(II) 480942 014024-48-7 38 13-METHOXYPODOCARPA-8,11,13-TRIEN- 3-ONE §§ 2(1H)-PHENANTHRENONE, 3,4 ,4A,9,10,10A-HEXAHYDRO-7-METHOXY-1 ,1,4A-TRIMETHYL- §§ 7-METHOXY-1,1, 4A-TRIMETHYL-1,2,3,4,4A,9,10,10A-O CTAHYDROPHENANTHREN-2-ONE 481146 055255-51-1 38	481103	055255-51-1	43
14	32.240	0.01	D:\DATABASE\DEMO.L 4-(METHOXYMETHYL)-6-METHYL-2-PHENO XYNICOTINONITRILE §§ PYRIDINE-3-CAR BONITRILE, 4-METHOXYMETHYL-6-METH YL-2-PHENOXY- 7413 332057-36-0 32 Taurolidina §§ 2H-1,2,4-Thiadiazin e, 4,4'-methylenebis(tetrahydro-, 1,1,1',1'-tetraoxide §§ 4,4'-Methy lenebis(tetrahydro-1,2,4-thiadiazin e 1,1-dioxide) §§ Taurolin 4983 019388-87-5 17 1-Undecanamine §§ Undecylamine §§ n-Undecylamine §§ Hendecylamine 4351 007307-55-3 9	7413	332057-36-0	32
15	32.381	0.04	D:\DATABASE\DEMO.L 1-PHENYL-3-METHYL-4-(2-PROP-2-YL)- 5-ACETOXYPYRAZOLE 419699 000000-00-0 53 Pyrrolidin-2,5-dione, 3-ethylidene 419130 999419-13-6 52 -1-phenyl- 1-PHENYL-2-ACETYL-3-METHYL-5-(PROP 419698 000000-00-0 52	419699	000000-00-0	53

Data Path : F:\DATA MS\data\
 Data File : WLM-200c-10presen-4jm.D
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 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			-2-YL)-2,5-DIHYDROPYRAZOLE-5-ONE			
26	32.581	0.01	D:\DATABASE\DEMO.L 4-(2-TOLUIDINO)-2(1H)-PYRIMIDINONE §§ 2(1H)-PYRIMIDINONE, 4-[(2-METH YLPHENYL)AMINO]- §§ 4-(2'-METHYLPH ENYL)AMINO-1,2-DIHYDRO-1,3-DIAZINE -2-ONE §§ 4-(2-METHYLPHENYLAMINO)- PYRIMIDIN-2(1H)-ONE 4-(2-Methylphenylamino)-pyrimidin- 2(1H)-one §§ 4-(2-Tolylamino)cytos ine §§ 4-(2-Toluidino)-2(1H)-pyrim idinone # 1H-BENZIMIDAZOLE, 2-(4-THIAZOLYL)- §§ 1H-BENZIMIDAZOLE, 2-(4-THIAZO LYL)- §§ 2-(1,3-THIAZOL-4-YL)-1H-B ENZIMIDAZOLE §§ 2-(1,3-THIAZOL-4-Y L)BENZIMIDAZOLE	419278	127970-29-0	46
27	32.667	0.01	D:\DATABASE\DEMO.L 1-Hexadecanamine §§ Hexadecylamini na §§ n-Cetylamina §§ n-Hexadecylami na 1-Tetradecanamine §§ Tetradecylami na §§ Armeen 14 §§ Myristylamine 1-Tetradecanamine §§ Tetradecylami na §§ Armeen 14 §§ Myristylamine	4902	000143-27-1	22
28	32.753	0.01	D:\DATABASE\DEMO.L 1-Hexadecanamine §§ Hexadecylamini na §§ n-Cetylamina §§ n-Hexadecylami na 4-BROMO-N-[(6-METHYL-2-PYRIDYL)AMI NOMETHYL]PHTHALIMIDE §§ 5-BROMO-2- [(6-METHYL-2-PYRIDINYL)AMINO]METH YL-1H-ISOINDOLE-1,3(2H)-DIONE 4-(METHOXYMETHYL)-6-METHYL-2-PHEMO XYNICOTINONITRILE §§ PYRIDINE-3-CAR BONITRILE, 4-METHOXYMETHYL-6-METH YL-2-PHENOXY-	7473	999007-47-4	14
29	32.975	0.01	D:\DATABASE\DEMO.L 4-(METHOXYMETHYL)-6-METHYL-2-PHEMO XYNICOTINONITRILE §§ PYRIDINE-3-CAR BONITRILE, 4-METHOXYMETHYL-6-METH YL-2-PHENOXY- 1,12-DODECANEDIAMINE §§ DODECANE-1 ,12-DIAMINE §§ 1, 12-DIAMINODODECA NE §§ 1, 12-DODECANEDIAMINE Tridecylamine §§ n-Tridecylamine § § 1-Aminotridecane §§ 1-Tridecanam ine	7413	332057-36-0	35
30	33.040	0.02	D:\DATABASE\DEMO.L 7-ETHYL-3-METHYL-2-NITRO-4-OXO-4,7 -DIHYDROTHIENO[2,3-B]PYRIDINE-5-CAR BOXYLIC ACID §§ THIENO[2,3-B]PYRI DINE-5-CARBOXYLIC ACID, 4,7-DIHYDRO -7-ETHYL-3-METHYL-2-NITRO-4-OXO-	7432	999007-43-3	10

Data Path : F:\DATA MS\daa\
 Data File : WLM-200c-10pssn-4jm.D
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 Sample :
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			4-(METHOXYMETHYL)-6-METHYL-2-PHEMO XYNICOTINONITRILE §§ PYRIDINE-3-CA RBNITRILE, 4-METHOXYMETHYL-6-METH YL-2-PHENOXY- Carbamic acid, (2-chloroethylidene)bis-, diethyl ester §§ Carbamic a cid, (2-chloroethylidene)di-, diet hyl ester	7413	332057-36-0	10
			3171 005336-13-0 9			
31	33.132	0.02	D:\DATABASE\DEMO.L 4,9(11)-Androstadiene-3,17-dione 2-(2,4-DIMETHOXYPHENYL)-6-METHOXY- 1-BENZOFURAN §§ BENZOFURAN, 2-(2,4 -DIMETHOXYPHENYL)-6-METHOXY- §§ 2- (2',4'-DIMETHOXYPHENYL)-6-METHOXY- BENZOFURAN §§ 2-(2,4-DIMETHOXYPHEN YL)-6-METHOXYBENZOFURAN Tetracyclo[16.1.0.0(2,9).0(10,17)] nonadeca-2(9),10(17)-diene, 19,19- dimethyl-	502121 502297	999502-13-3 067683-23-8	48 30
			502080 999502-09-2 30			
32	33.369	0.01	D:\DATABASE\DEMO.L 4-(METHOXYMETHYL)-6-METHYL-2-PHEMO XYNICOTINONITRILE §§ PYRIDINE-3-CA RBNITRILE, 4-METHOXYMETHYL-6-METH YL-2-PHENOXY- 1-OCTADECANAMINE §§ OCTADECAN-1-AM INE §§ 1-AMINOOCCTADECANE §§ 1-OCTA DECANAMIN 1-Tetradecanamine §§ Tetradecylami ne §§ Armeen 14 §§ Myristylamine	7413	332057-36-0	10
			4965 000124-30-1 10			
			4817 002016-42-4 10			
33	33.488	0.09	D:\DATABASE\DEMO.L Phenanthrene, 7-ethenyl-1,2,3,4,4a .5,6,7,8,9,10,10a-dodecahydro-1,1, 4a,7-tetraethyl- §§ Pimara-8,15-d iene # KAURA-5,16-DIEN-18-OL §§ KAURA-5,1 6-DIEN-18 (OR 19)-OL §§ KAURA-5,16- DIEN-19-OL Kaurea-5,16-dien-18(or 19)-ol §§ Ka ura-5,16-dien-18-ol #	481092	055255-56-6	93
			492904 023837-99-2 72			
			492860 023837-99-2 50			
34	33.688	0.02	D:\DATABASE\DEMO.L 4-(N-METHYLAMINO)-6,7-(1,2,3,4-TET RAHYDRO-1,1,4,4-TETRAMETHYLBENZO)I NDOLE 2(1H)-PHENANTHRENONE, 3,4,4A,9,10, 10A-HEXAHYDRO-1,4A-DIMETHYL-7-(1-M ETHYLETHYL)-, [1S-(1.ALPHA.,4A.BET A.,10A.ALPHA.)]- §§ 18-NORABIETA-8 ,11,13-TRIENE-3-ONE §§ 2(1H)-PHENA NTHRONE, 3,4,4A,9,10,10A-HEXAHYDRO -7-ISOPROPYL-1,4A-DIMETHYL-, (1S,4 AS,10AS)- 2-(4'-Methoxyphenyl)-2-(2'-methoxy phenyl)propane §§ 1-Methoxy-2-[1-(4-methoxyphenyl)-1-methylethyl]ben zene #	466219 466277	000000-00-0 016898-96-7	53 48
			466153 155726-81-1 38			

Data Path : F:\DATA MS\data\
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 ALS Vial : 2 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area#	Library/ID	Ref#	CAS#	Qual
			tetrahydronaphthalene #			
39	34.547	0.05	D:\DATABASE\DEMO.L 2H-1,4-BENZODIAZEPIN-2-ONE, 7-CHLO RO-1,3-DIHYDRO-3-HYDROXY-5-PHENYL- §§ (+)-OXAZEPAM §§ (RS)-OXAZEPAM §§ 1,3-DIHYDRO-7-CHLORO-3-HYDROXY -3-PHENYL-2H-1,4-BENZODIAZEPIN-2-O NE 2H-1,4-BENZODIAZEPIN-2-ONE, 7-CHLO RO-1,3-DIHYDRO-3-HYDROXY-5-PHENYL- §§ (+)-OXAZEPAM §§ (RS)-OXAZEPAM §§ 1,3-DIHYDRO-7-CHLORO-3-HYDROXY -3-PHENYL-2H-1,4-BENZODIAZEPIN-2-O NE 2H-1,4-BENZODIAZEPIN-2-ONE, 7-CHLO RO-1,3-DIHYDRO-3-HYDROXY-5-PHENYL- §§ (+)-OXAZEPAM §§ (RS)-OXAZEPAM §§ 1,3-DIHYDRO-7-CHLORO-3-HYDROXY -3-PHENYL-2H-1,4-BENZODIAZEPIN-2-O NE	481197	000604-75-1	38
				481198	000604-75-1	38
				481190	000604-75-1	38
40	34.720	0.02	D:\DATABASE\DEMO.L 3H-[1]BENZOTHIENO[3,2-D]AZONINE-3- CARBONITRILE, 1,2,4,5,6,7-HEXAHYDR O-7-METHOXY- §§ 7-METHOXY-2,3,4,5, 6,7-HEXAHYDRO-1H-[1]BENZOTHIENO[3, 2-D]AZONINE-3-CARBONITRILE 4-PENTENE (DITHIOIC) ACID, 2-ETHENY L-3-METHYL-, METHYL ESTER, (R*,R*) - §§ METHYL 2-ETHENYL-3-METHYL-4-P ENTENEDITHIOATE 3-TRIDEUTEROMETHOXY-4-METHYL-2 (5H) -FURANONE	7435	099659-20-8	9
				730	107094-82-6	5
				2514	000000-00-0	4
41	34.785	0.01	D:\DATABASE\DEMO.L 2-((E)-[[(E)-2-[(E)-(2-HYDROXYPHE NYL)METHYLIDENE]AMINO]PROPYL]IMINO)METHYL)PHENOL §§ .ALPHA.,.ALPHA. '-(1-METHYLETHYLENEDIIMINO)DI-ORTHO -CRESOL §§ .ALPHA.,.ALPHA.'-DIPROP YLENEDINITRILODI-O-CRESOL §§ ALPHA ,ALPHA'-(1-METHYLETHYLENEDIIMINO)D I-ORTHO-CRESOL MORPHINAN-3,14-DIOL, 4,5-EPOXY-17- METHYL-, (3.ALPHA.)- §§ 4,5.ALPHA. -EPOXY-17-METHYLMORPHINAN-3,14-DIO L §§ MORPHINAN-3,14-DIOL, 4,5-EPOX Y-17-METHYL-, (5ALPHA)- Morphinan-14-ol, 3-methoxy-17-meth yl- §§ (-)-14-Hydroxy-3-methoxy-17 -methylnorphinan §§ 3-Methoxy-17-m ethylnorphinan-14-ol #	45719	000094-91-7	43
				45786	006801-26-9	14
				45783	001639-74-3	14
42	34.817	0.01	D:\DATABASE\DEMO.L 2,4(1H,3H)-Pyrimidin-2(1H,3H)-dihydr o-5-hydroxy- §§ 5-Hydroxydihydro-2 ,4(1H,3H)-pyrimidin-2(1H,3H)-dihydr o-5-hydroxydihydro-2,4(1H,3H)-PYRIMI	4192	001635-26-3	9
				4196	001635-26-3	9

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Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

Px#	RT	Area#	Library/ID	Ref#	CAS#	Qual
			DINEDIONE §§ 2,4(1E,3E)-PYRIMIDINE DICONE, DIHYDRO-5-HYDROXY- §§ 4,5-D IHYDRO-5-HYDROXY-URACIL .beta.-Chloroethylurea §§ 2-Chloro ethylurea §§ N-(2-Chloroethyl)urea #	4104	006296-42-0	9
43	34.914	0.03	D:\DATABASE\DEMO.L N-(5-Bromo-pyridin-2-yl)-3-phenyl- acrylamide §§ (2E)-N-(5-Bromo-2-py- ridinyl)-3-phenyl-2-propanamide #	283383	328119-25-1	18
			1-ETHOXY-2-[(1E)-2-NITRO-1-PROPENY L]BENZENE §§ CIS-2-ETHOXY-.BETA.-M ETHYL-.BETA.-NITROSTYRENE §§ CIS-2 -ETHOXY-BETA-METHYL-BETA-NITROSTYR ENE §§ TRANS-2-ETHOXY-.BETA.-METHY L-.BETA.-NITROSTYRENE	282602	134040-21-4	15
			2,3-CYCLOHEXADIENE-1,4-DIONE, 3-HY DROXY-5-METHOXY-2-(1-OMO-3-PHENYL- 2-PROFENYL)- §§ 2-CINNAMOYL-3-HYDR OXY-5-METHOXY-1,4-BENZOQUINONE	283260	096960-60-0	14
44	35.022	0.03	D:\DATABASE\DEMO.L (3,3-DIMETHOXYPROPYL)BENZENE §§ 1, 1-DIMETHOXY 3-PHENYLPROPANE §§ 1,1 -DIMETHOXY-3-PHENYLPROPANE §§ BENZ ENE, (3,3-DIMETHOXYPROPYL)- Benzene, (3,3-dimethoxypropyl)- §§ (3,3-Dimethoxypropyl)benzene #	122534	030076-98-3	58
			(3,3-DIMETHOXYPROPYL)BENZENE §§ 1, 1-DIMETHOXY 3-PHENYLPROPANE §§ 1,1 -DIMETHOXY-3-PHENYLPROPANE §§ BENZ ENE, (3,3-DIMETHOXYPROPYL)-	122522	030076-98-3	58
			(3,3-DIMETHOXYPROPYL)BENZENE §§ 1, 1-DIMETHOXY 3-PHENYLPROPANE §§ 1,1 -DIMETHOXY-3-PHENYLPROPANE §§ BENZ ENE, (3,3-DIMETHOXYPROPYL)-	122536	030076-98-3	58
45	35.125	0.03	D:\DATABASE\DEMO.L KAUR-16-EN-18-OIC ACID §§ KAUR-16- EN-18-OIC ACID, (4.BETA.)- §§ (-)- KAURMENOIC ACID §§ (4-BETA)-KAUR-1 6-EN-18-OIC ACID	168418	020316-84-1	42
			Benzonitrile, n-phenethyl- §§ 3-(2 -Phenylethyl)benzonitrile #	162409	034176-91-5	10
			3-(2-PHENYLETHYL)BENZONITRILE §§ B ENZONITRILE, M-PHENETHYL- §§ 1-(3- CYANOPHENYL)-2-PHENYLETHANE §§ M-C YANO-1,2-DIPHENYLETHANE	162420	034176-91-5	10
46	35.168	0.03	D:\DATABASE\DEMO.L 2-((E)-((E)-2-((E)-(2-HYDROXYPHE NYL)METHYLIDENE)AMINO)PROPYL)IMINO)METHYL)PHENOL §§ .ALPHA.,.ALPHA.' -(1-METHYLETHYLENEDIIMINO)DI-ORTHO -CRESOL §§ .ALPHA.,.ALPHA.'-DIPROP YLENEDINITRILODI-O-CRESOL §§ ALPHA ,ALPHA'-(1-METHYLETHYLENEDIIMINO)D I-ORTHO-CRESOL	45719	000094-91-7	25
			BUTYL 2-(METHYLAMINO)BENZOATE §§ A NTHRANILIC ACID, N-METHYL-, BUTYL ESTER §§ N-BUTYL O-METHYLAMINOBENZ OATE	209256	015236-34-7	14

Data Path : F:\DATA MS\data\
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Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

RT	Area%	Library/ID	Ref#	CAS#	Qual
		2-PROPEN-1-ONE, 3-(2-(ACETYLOXY)PHENYL)-1-PHENYL- 55 2-ACETOXYCHALONE	212026	033777-37-6	12
35.303	0.04	D:\DATABASE\DEMO.L KAUR-16-EN-18-OIC ACID 55 KAUR-16-EN-18-OIC ACID, (4.BETA.)- 55 (-)-KAURMENOIC ACID 55 (4-BETA)-KAUR-16-EN-18-OIC ACID Phenanthrene, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,8,10,10a-dodecahydro-4a,7-dimethyl-1-methylene-, [4aS-(4a.alpha.,4a.beta.,7.beta.,10a.beta.)]- 55 2,4b-Dimethyl-8-methylene-2-vinyl-1,2,3,4,4a,4b,5,6,7,8,8a,9-dodecahydrophenanthrene # 2,4B-DIMETHYL-8-METHYLENE-2-VINYL-1,2,3,4,4A,4B,5,6,7,8,8A,9-DODECAHYDROPHENANTHRENE 55 PHENANTHRENE, 7-ETHENYL-1,2,3,4,4A,4B,5,6,7,8,10,10A-DODECAHYDRO-4A,7-DIMETHYL-1-METHYLENE-, [4AS-(4A.ALPHA.,4B.BETA.,7.BETA.,10A.BETA.)]-	168418	020316-84-1	49
35.384	0.05	D:\DATABASE\DEMO.L Ketone, isopropylidene-cyclopropylmethyl 55 1-[2-(1-Methylethylidene)cyclopropyl]ethanone # p-Heptyloxyaniline 55 4-n-Heptyloxyaniline 3-Aminophenyl-.beta.-phenylpropionate	226907	029765-67-1	47
35.481	1.07	D:\DATABASE\DEMO.L BENZ(A)ANTHRACENE Xanthan-9-one, 1-Hydroxy-3,5,8-trimethoxy- 55 3,5,8-Dimethylbellidifolin 55 1-Hydroxy-3,5,8-trimethoxyxanthan-9-one 55 1-Hydroxy-3,5,8-trimethoxy-9H-xanthan-9-one # PINE ROSIN MIXTURE	513655	099707-96-7	83
35.665	0.14	D:\DATABASE\DEMO.L 1H-Indole-3-carboxylic acid, 1-cyclopentyl-5-hydroxy-2-methyl-, ethyl ester 1-PHENANTHRENECARBOXYLIC ACID, 7-ETHENYL-1,2,3,4,4A,4B,5,6,7,8,10,10A-DODECAHYDRO-1,4A,7-TRIMETHYL-, [1R-(1.ALPHA.,4A.BETA.,4B.ALPHA.,7.ALPHA.,10A.ALPHA.)]- 55 ISOPIMARIC ACID 55 PODOCARP-7-EN-15-OIC ACID, 13.BETA.-METHYL-13-VINYLPalustic acid 55 Podocarpa-8,13-dien-15-oic acid, 13-isopropyl- 55 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,5,6,9,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, (1R-(1.alpha.,4a.beta.,10a.alpha.)-	504368	999504-38-0	43
			466436	005835-26-7	35
			513439	001945-53-5	35

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Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

#	RT	Area	Library/ID	Ref	CAS#	Qual
			§§ 8,13-Abietadien-18-oic acid			
11	35.752	0.26	D:\DATABASE\DEMO.L DEHYDROABIETIC ACID 464336 000000-00-0 97 METHYL ABIETA-8,11,13-TRIEN-18-OAT 464350 001235-74-1 96 E §§ 1-PHENANTHRENECARBOXYLIC ACID , 1,2,3,4,4a,9,10,10a-OCTAHYDRO-1, 4a-DIMETHYL-7-(1-METHYLETHYL)-, ME THYL ESTER, [1R-(1.ALPHA.,4A.BETA. ,10A.ALPHA.)]- §§ DEHYDROABIETIC A CID METHYL ESTER §§ METHYL DEHYDRO ABIETATE 1-Phenanthrenecarboxylic acid, 1,2 464338 001235-74-1 96 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, methyl ester, [1R-(1.alpha.,4a.beta.,10a. alpha.)]- §§ Podocarpa-8,11,13-tri en-15-oic acid, 13-isopropyl-, met hyl ester §§ Methyl dehydroabietat			
12	35.897	0.19	D:\DATABASE\DEMO.L 2-BUTYL-5-HEXYLINDANE §§ INDAN, 2- 398768 025446-32-6 55 BUTYL-5-HEXYL- §§ 2-N-BUTYL-1-N-HE XYL-2,3-DIHYDROINDENE §§ 2-N-BUTYL -5-N-HEXYL-(2,3-DIHYDROINDENE) Indan, 2-butyl-5-hexyl- §§ 2-n-But 398758 025446-32-6 55 yl-5-n-hexyl-(2,3-dihydroindane) § § 2-n-Butyl-5-n-hexylindane §§ 2-Bu tyl-5-hexylindane § 1,1'-BIS(SPIRO[2.4]HEPTYLIDENE) 161353 000000-00-0 53			
13	36.081	0.25	D:\DATABASE\DEMO.L 1H-NAPHTHO[2,3-C]PYRAM-5,10-DICONE, 513558 084018-43-9 91 3,4-DIHYDRO-7,9-DIMETHOXY-1,3-DIM ETHYL- CIS-(+,-)- §§ (+,-)-CIS-7 ,9-DIMETHOXY-1,3-DIMETHYL-3,4,5,10 -TETRAHYDRONAPHTHO[2,3-C]PYRAM-5,1 0-DICONE Pimaric acid §§ 1-Phenanthrenecarb 466434 000127-27-5 60 oxic acid, 7-ethenyl-1,2,3,4,4a, 4b,5,6,7,9,10,10a-dodecahydro-1,4a ,7-trimethyl-, [1R-(1.alpha.,4a.be ta.,4b.alpha.,7.beta.,10a.alpha.)] - §§ Podocarp-8(14)-en-15-oic acid , 13.alpha.-methyl-13-vinyl- §§ D- pimaric acid Palustric acid §§ Podocarpa-8,13-d 513439 001945-53-5 49 ien-15-oic acid, 13-isopropyl- §§ 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,5,6,9,10,10a-decahydro-1,4 a-dimethyl-7-(1-methylethyl)-, (1R -(1.alpha.,4a.beta.,10a.alpha.)- §§ 8,13-Abietadien-18-oic acid			
14	36.254	0.13	D:\DATABASE\DEMO.L 1,4-DIHYDRO-9-ISOPROPYLIDENE-5,6,7 513581 000000-00-0 90 ,8-TETRAMETHOXY-1,4-METHANONAPHTHA LENE Pimaric acid §§ 1-Phenanthrenecarb 504569 000127-27-5 55			

Data Path : F:\DATA MS\data\
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 Misc :
 ALS Vial : 2 Sample Multiplier: 1

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Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area#	Library/ID	Ref#	CAS#	Qual
			oxylic acid, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,9,10,10a-dodecahydro-1,4a,7-trimethyl-, [1R-(1.alpha.,4a.beta.,4b.alpha.,7.beta.,10a.alpha.)]-			
			- §§ Podocarp-8(14)-en-15-oic acid, 13.alpha.-methyl-13-vinyl- §§ D-pimaric acid			
			Palustric acid §§ Podocarpa-8,13-dien-15-oic acid, 13-isopropyl- §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,5,6,8,9,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, (1R-(1.alpha.,4a.beta.,10a.alpha.))- §§ 8,13-Abietadien-18-oic acid	513439	001945-53-5	46
55	36.378	0.16	D:\DATABASE\DEMO.L 17-NORKAUR-9(11)-EN-18-OIC ACID, 16-OXO-, METHYL ESTER, (4.ALPHA.)- §§ 16-OXO-17-NOR-9(11)-KAUREN-18-CARBOXYLIC ACID-METHYLESTER §§ 18-2,10A-ETHANOPHENANTHRENE, 17-NORKAUR-9(11)-EN-18-OIC ACID DERIV. Androst-2,16-diene 10,13-DIMETHYL-4,5,6,7,8,9,10,11,12,13,14,15-DODECAHYDRO-1H-CYCLOPENT[A]PHENANTHRENE §§ ANDROSTA-2,16-DIENE	466510 466169 466180	063558-42-9 999466-17-7 999466-18-8	50 48 48
56	36.497	0.13	D:\DATABASE\DEMO.L 1,4-DIHYDRO-9-ISOPROPYLIDENE-5,6,7,8-TETRAMETHOXY-1,4-METHANONAPHTHALENE 1H-NAPHTHO[2,3-C]PYRAN-5,10-DIONE, 3,4-DIHYDRO-7,9-DIMETHOXY-1,3-DIMETHYL-, CIS-(+,-)- §§ (+,-)-CIS-7,9-DIMETHOXY-1,3-DIMETHYL-3,4,5,10-TETRAHYDRONAPHTHO[2,3-C]PYRAN-5,10-DIONE 18-NOR-16-OKAANDROSTA-13(17),14-DIENE-4-METHANOL, 4,8-DIMETHYL-, (4.BETA.,5.ALPHA.)- §§ PHENANTHRO[1,2-C]FURAN, 18-NOR-16-OKAANDROSTA-13(17),14-DIENE-4-METHANOL DERIV. §§ SPONGIA-13(16),14-DIEN-18-OL	513581 513558 513649	000000-00-0 084018-43-9 074804-02-7	90 72 49
57	36.600	0.29	D:\DATABASE\DEMO.L C-HYDROGEN FERREUTERIC HEXADECANOIC ACID KAUR-16-EN-18-OIC ACID §§ KAUR-16-EN-18-OIC ACID, (4.BETA.)- §§ (-)-KAURENOIC ACID §§ (4-BETA)-KAUR-16-EN-18-OIC ACID Phenol, 2,4-bis(1-phenylethyl)- §§ 2,4-Bis(1-phenylethyl)phenol #	504545 168418 504578	039756-30-4 020316-84-1 002769-94-0	90 90 89
58	36.740	0.44	D:\DATABASE\DEMO.L Abietic acid §§ 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methyl-	513344	000514-10-3	70

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 Sample :
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

%#	RT	Area%	Library/ID	Ref#	CAS#	Qual
			ethyl-ethyl)-, [1R-(1.alpha.,4a.beta. a.,4b.alpha.,10a.alpha.)]- 55 Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- 55 1-abiatic acid Abiatic acid 55 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethyl-ethyl)-, [1R-(1.alpha.,4a.beta. a.,4b.alpha.,10a.alpha.)]- 55 Podo carpa-7,13-dien-15-oic acid, 13-is opropyl- 55 1-abiatic acid 3-ACETYL-1-METHYL-2-(1'-METHYL-1H- INDOL-2'-YL)-1H-INDOLE	513378	000514-10-3	55
59	36.972	0.55	D:\DATABASE\DEMO.L ABIETA-8,11,13-TRIEN-18-OIC ACID 5 5 PODOCARPA-8,11,13-TRIEN-15-SAEUR E, 13-ISOPROPYL- 1-PHENANTHRENECARBOXYLIC ACID, 1,2 ,3,4,4a,9,10,10a-OCTAHYDRO-1,4a-DI METHYL-7-(1-METHYLETHYL)-, [1R-(1. ALPHA.,4A.BETA.,10A.ALPHA.)]- 55 (-)-DEHYDROABIETIC ACID 55 1,2,3,4, 4A,9,10,10a-OCTAHYDRO-1,4a-DIMETHY L-7-(1-METHYLETHYL)-1-PHENANTHRENE CARBOXYLIC ACID 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, [1R-(1. alpha.,4a.beta.,10a.alpha.)]- 55 P odocarpa-8,11,13-trien-15-oic acid , 13-isopropyl- 55 Abieta-8,11,13- trien-18-oic acid 55 Abiatic acid, dehydro-	503106	999503-11-8	99
			1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, [1R-(1. alpha.,4a.beta.,10a.alpha.)]- 55 P odocarpa-8,11,13-trien-15-oic acid , 13-isopropyl- 55 Abieta-8,11,13- trien-18-oic acid 55 Abiatic acid, dehydro-	503110	001740-19-8	99
			1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, [1R-(1. alpha.,4a.beta.,10a.alpha.)]- 55 P odocarpa-8,11,13-trien-15-oic acid , 13-isopropyl- 55 Abieta-8,11,13- trien-18-oic acid 55 Abiatic acid, dehydro-	503093	001740-19-8	99
60	37.032	0.77	D:\DATABASE\DEMO.L ABIETA-8,11,13-TRIEN-18-OIC ACID 5 5 PODOCARPA-8,11,13-TRIEN-15-SAEUR E, 13-ISOPROPYL- 1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, [1R-(1. alpha.,4a.beta.,10a.alpha.)]- 55 P odocarpa-8,11,13-trien-15-oic acid , 13-isopropyl- 55 Abieta-8,11,13- trien-18-oic acid 55 Abiatic acid, dehydro-	503106	999503-11-8	94
			1-Phenanthrenecarboxylic acid, 1,2 ,3,4,4a,9,10,10a-octahydro-1,4a-di methyl-7-(1-methylethyl)-, [1R-(1. alpha.,4a.beta.,10a.alpha.)]- 55 P odocarpa-8,11,13-trien-15-oic acid , 13-isopropyl- 55 Abieta-8,11,13- trien-18-oic acid 55 Abiatic acid, dehydro-	503093	001740-19-8	83
			Ethyl 4-hydroxy-7-trifluoromethyl- 3-quinolinecarboxylate 55 3-Quinol inocarboxylic acid, 4-hydroxy-7-(t rifluoromethyl)-, ethyl ester	464415	000391-02-6	72
61	37.221	0.49	D:\DATABASE\DEMO.L Abiatic acid 55 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethyl-ethyl)-, [1R-(1.alpha.,4a.beta. a.,4b.alpha.,10a.alpha.)]- 55 Podo carpa-7,13-dien-15-oic acid, 13-is	513378	000514-10-3	93

Data Path : F:\DATA MS\daa\
 Data File : WLM-200c-10press-4jm.D
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 Sample :
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 ALS Vial : 2 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apex
 Integration Events: ChemStation Integrator - autoint1.e

k#	RT	Area#	Library/ID	Ref#	CAS#	Qual
			opropyl- 66 L-abiatic acid 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4a,9,10,10a-OCTAHYDRO-1,4a-DIMETHYL-7-(1-METHYLETHYL)-, [1R-(1.alpha.,4a.beta.,10a.alpha.)]- 66 (-)-DEHYDROABIETIC ACID 66 1,2,3,4,4a,9,10,10a-OCTAHYDRO-1,4a-DIMETHYL-7-(1-METHYLETHYL)-1-PHENANTHRENE CARBOXYLIC ACID	503110	001740-19-8	92
			1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,10a.alpha.)]- 66 Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- 66 Abiata-8,11,13-trien-18-oic acid 66 Abiatic acid, dehydro-	503093	001740-19-8	92
52	37.675	2.42	D:\DATABASE\DEMO.L Abiatic acid 66 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- 66 Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- 66 L-abiatic acid Abiatic acid 66 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- 66 Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- 66 L-abiatic acid Abiatic acid 66 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- 66 Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- 66 L-abiatic acid	513378	000514-10-3	99
			Abiatic acid 66 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- 66 Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- 66 L-abiatic acid Abiatic acid 66 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- 66 Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- 66 L-abiatic acid	513344	000514-10-3	93
			Abiatic acid 66 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- 66 Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- 66 L-abiatic acid	513347	000514-10-3	90
53	38.480	0.19	D:\DATABASE\DEMO.L .beta.-Pimaric acid 66 .delta.6,8(14)-Abietadienoic acid 66 1-Pimaric acid 66 1-Sapietic acid Abiatic acid 66 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- 66 Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- 66 L-abiatic acid Abiatic acid 66 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- 66 Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- 66 L-abiatic acid	513374	000079-54-9	94
			Abiatic acid 66 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- 66 Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- 66 L-abiatic acid Abiatic acid 66 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- 66 Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- 66 L-abiatic acid	513378	000514-10-3	92
			Abiatic acid 66 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]- 66 Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- 66 L-abiatic acid	513347	000514-10-3	86

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 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Search Libraries: D:\DATABASE\DEMO.L Minimum Quality: 0

Unknown Spectrum: Apax
 Integration Events: ChemStation Integrator - autoint1.e

PK#	RT	Area%	Library/ID	Ref#	CAS#	Qual
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			Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-13-oic acid, 13-is opropyl- §§ 1-abietic acid	513378	000514-10-3	84
			Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-13-oic acid, 13-is opropyl- §§ 1-abietic acid	513344	000514-10-3	80
			Abietic acid §§ 1-Phenanthrenecarb oxylic acid, 1,2,3,4,4a,4b,5,6,10, 10a-decahydro-1,4a-dimethyl-7-(1-m ethylethyl)-, [1R-(1.alpha.,4a.beta a.,4b.alpha.,10a.alpha.)]- §§ Podo carpa-7,13-dien-13-oic acid, 13-is opropyl- §§ 1-abietic acid	513347	000514-10-3	70

Lampiran 7. Dokumentasi

