

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU070218\
 Data File : VU025172.D
 Acq On : 03 Jul 2018 04:14
 Operator : MD/SY
 Sample : J3809-09
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-1-062818

Manual Integrations
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sam
 7/3/2018 3:53:02 PM

Quant Time: Jul 03 07:57:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 13 13:55:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	200413	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	307139	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	289887	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	187177	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.31	65	152562	46.63	ug/l	0.00
Spiked Amount			Recovery	=	93.26%	
35) Dibromofluoromethane	4.89	113	117343	46.03	ug/l	0.00
Spiked Amount			Recovery	=	92.06%	
50) Toluene-d8	7.57	98	451102	48.52	ug/l	0.00
Spiked Amount			Recovery	=	97.04%	
62) 4-Bromofluorobenzene	10.31	95	172706	46.78	ug/l	0.00
Spiked Amount			Recovery	=	93.56%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.82	59	23442	29.46	ug/l	98
16) Acetone	2.32	43	43012	24.47	ug/l	92
19) Methyl tert-butyl Ether	3.00	73	72253	8.42	ug/l #	1
22) Diisopropyl ether	3.57	45	3914	0.47	ug/l #	84
25) 2-Butanone	4.27	43	24770	10.49	ug/l	95
31) Cyclohexane	5.00	56	80686	17.52	ug/l	99
39) Methylcyclohexane	6.42	83	142062	31.54	ug/l	99
40) Benzene	5.39	78	877584	85.33	ug/l	100
52) Toluene	7.64	92	291347	44.03	ug/l	100
67) Ethyl Benzene	9.26	91	11295988	870.09	ug/l	96
68) m/p-Xylenes	9.38	106	4375269	877.64	ug/l	95
69) o-Xylene	9.78	106	121334	24.59	ug/l	96
73) Isopropylbenzene	10.17	105	717641	49.94	ug/l	99
78) n-propylbenzene	10.59	91	2142351	126.55	ug/l	97
80) 1,3,5-Trimethylbenzene	10.78	105	91824m	7.37	ug/l	
84) 1,2,4-Trimethylbenzene	11.15	105	16742804m	1319.00	ug/l	
85) sec-Butylbenzene	11.33	105	182382m	12.16	ug/l	
86) p-Isopropyltoluene	11.48	119	126585	9.42	ug/l	98
89) n-Butylbenzene	11.89	91	183967	15.43	ug/l #	70
95) Naphthalene	13.74	128	1877481	135.24	ug/l	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

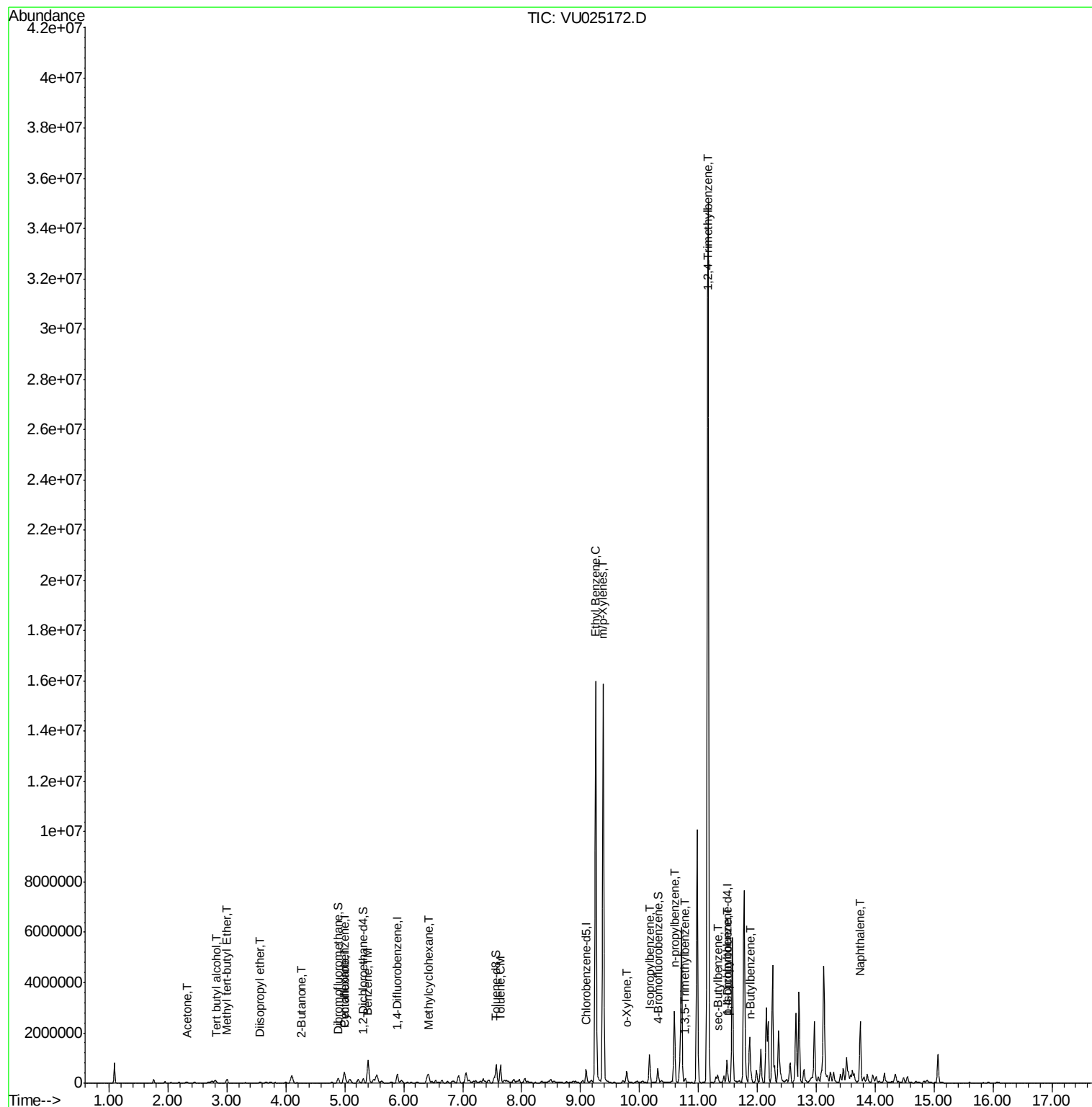
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU070218\
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Quant Title : SW846 8260
QLast Update : Wed Jun 13 13:55:26 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025172.D

Acq: 03 Jul 2018 04:14

Instrument :

MSVOA_U

ClientSampleId :

MW-1-062818

Tot Ion:168 Resp: 200413

Ion Ratio Lower Upper

168 100

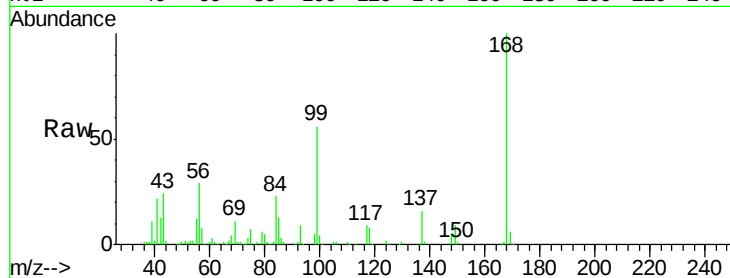
99 55.8 43.2 64.8

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VU0

100000

80000

60000

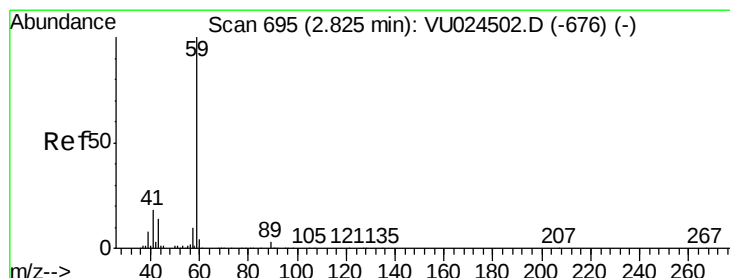
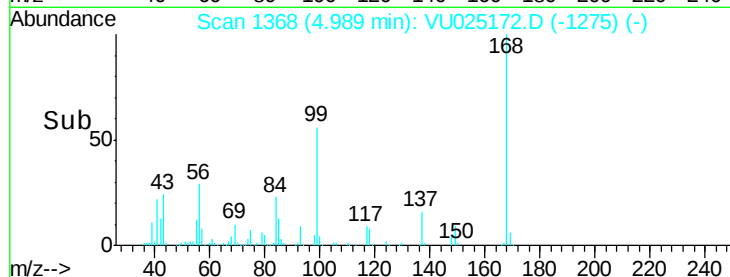
40000

20000

0

4.90 4.95 5.00 5.05 5.10

Time-->



#11

Tert butyl alcohol

Concen: 29.46 ug/l

RT: 2.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VU025172.D

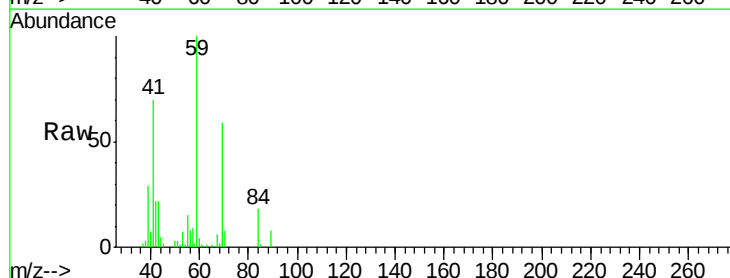
Acq: 03 Jul 2018 04:14

Tgt Ion: 59 Resp: 23442

Ion Ratio Lower Upper

59 100

57 9.9 8.5 12.7



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

12000

10000

8000

6000

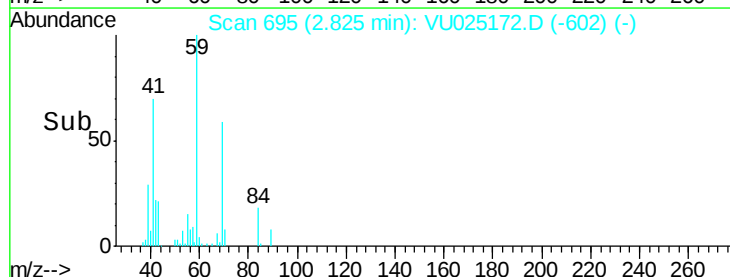
4000

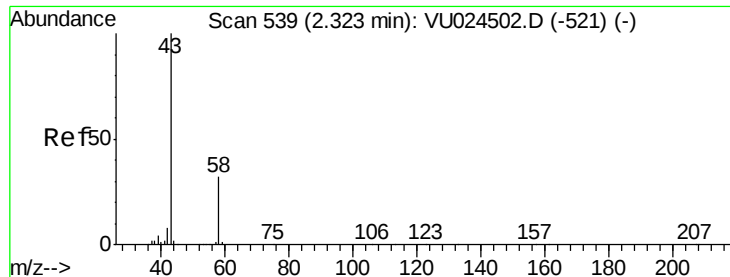
2000

0

2.75 2.80 2.85 2.90 2.95

Time-->





#16

Acetone

Concen: 24.47 ug/l

RT: 2.32 min Scan# 538

Delta R.T. -0.00 min

Lab File: VU025172.D

Acq: 03 Jul 2018 04:14

Instrument :

MSVOA_U

ClientSampleId :

MW-1-062818

Tot Ion: 43 Resp: 43012

Ion Ratio Lower Upper

43 100

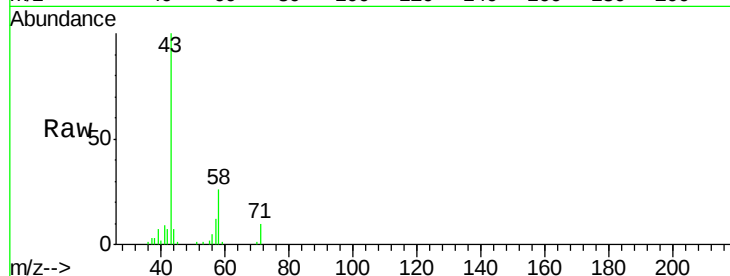
58 26.1 24.4 36.6

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Abundance Ion 43.00 (42.70 to 43.70): VU025172.D (-446) (-)

Ion 58.00 (57.70 to 58.70): VU025172.D (-446) (-)

25000

20000

15000

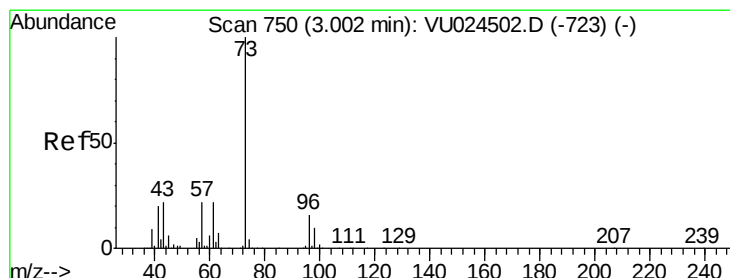
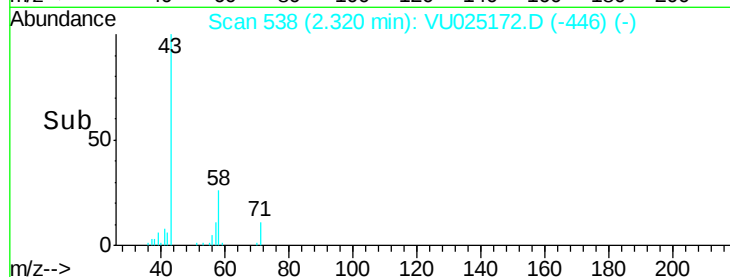
10000

5000

0

2.25 2.30 2.35 2.40

Time-->



#19

Methyl tert-butyl Ether

Concen: 8.42 ug/l

RT: 3.00 min Scan# 750

Delta R.T. 0.00 min

Lab File: VU025172.D

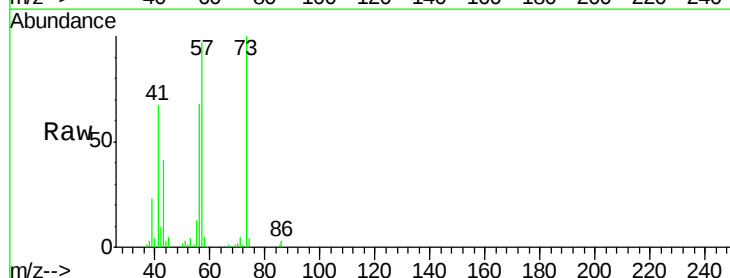
Acq: 03 Jul 2018 04:14

Tgt Ion: 73 Resp: 72253

Ion Ratio Lower Upper

73 100

57 97.1 18.8 28.2#



Abundance Ion 73.00 (72.70 to 73.70): VU025172.D (-657) (-)

Ion 57.00 (56.70 to 57.70): VU025172.D (-657) (-)

40000

30000

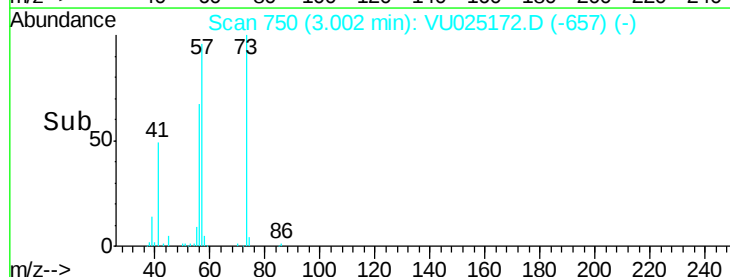
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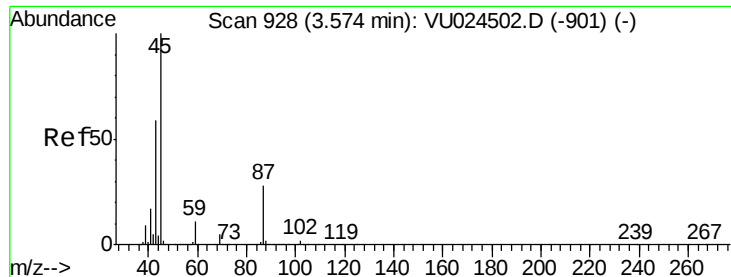
10000

0

2.90 2.95 3.00 3.05 3.10

Time-->





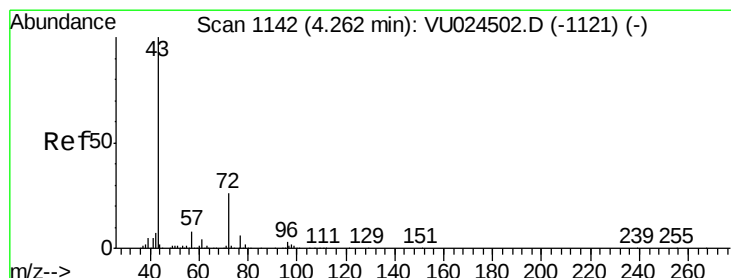
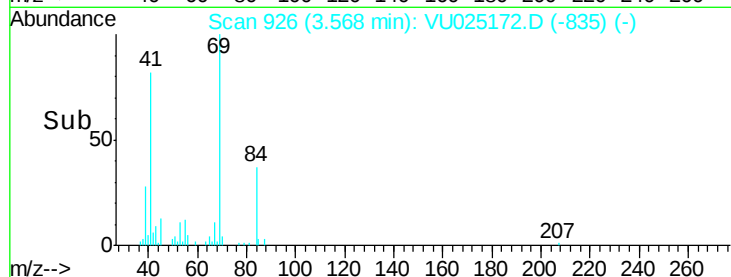
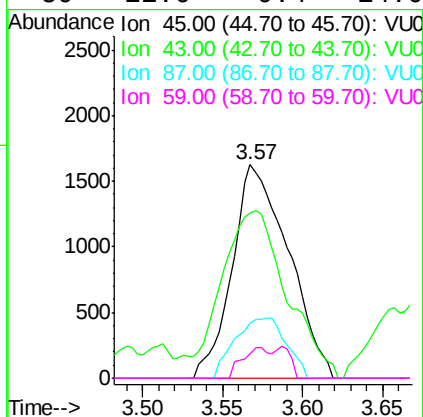
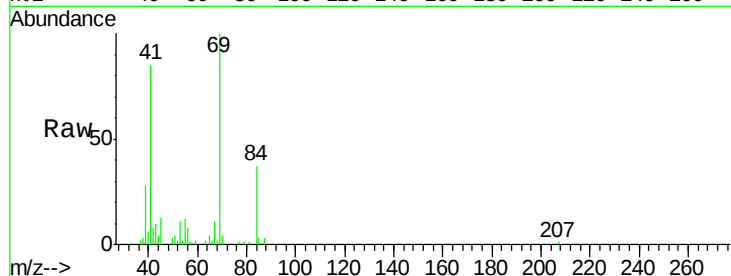
#22
Diisopropyl ether
Concen: 0.47 ug/l
RT: 3.57 min Scan# 926
Delta R.T. -0.01 min
Lab File: VU025172.D
Acq: 03 Jul 2018 04:14

Instrument :
MSVOA_U
ClientSampleId :
MW-1-062818

Tot Ion	Ratio	Lower	Upper
45	100		
43	77.3	45.8	68.6#
87	25.8	20.6	31.0
59	11.6	9.4	14.0

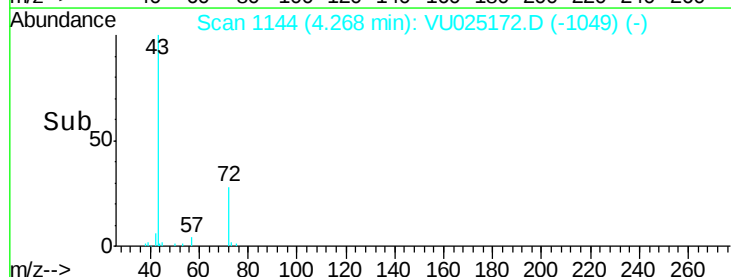
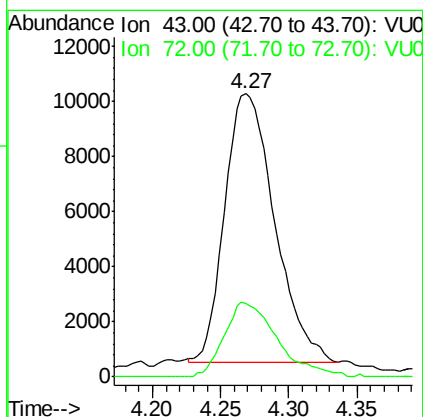
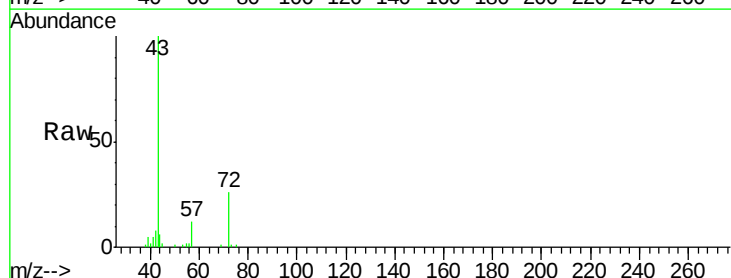
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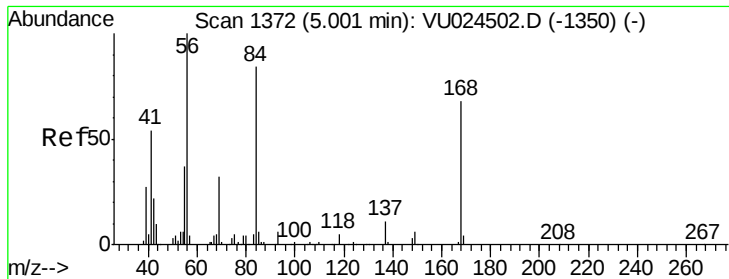
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#25
2-Butanone
Concen: 10.49 ug/l
RT: 4.27 min Scan# 1144
Delta R.T. 0.01 min
Lab File: VU025172.D
Acq: 03 Jul 2018 04:14

Tgt Ion	Ratio	Lower	Upper
43	100		
72	27.2	19.6	29.4





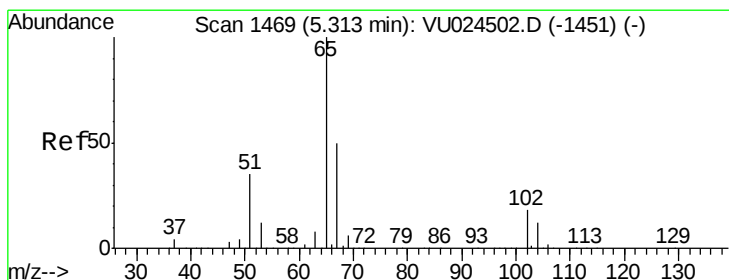
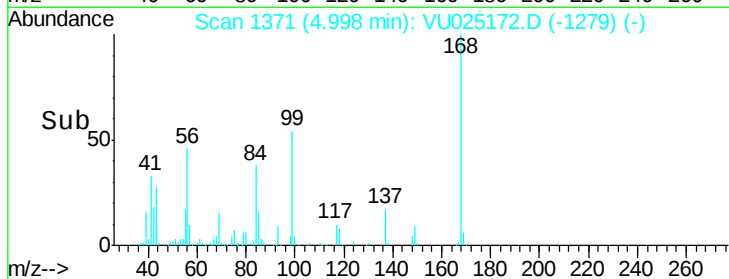
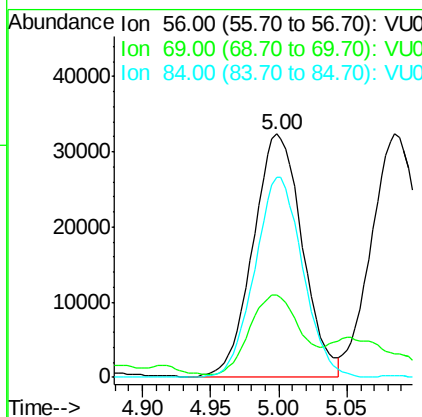
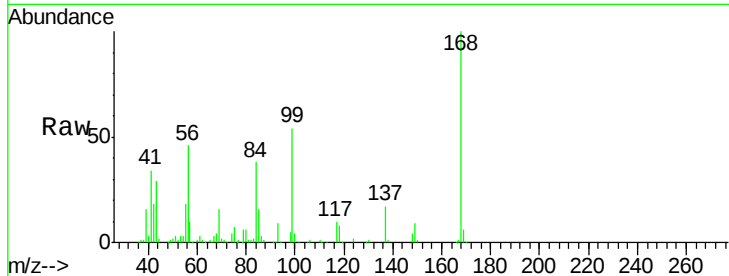
#31
Cyclohexane
Concen: 17.52 ug/l
RT: 5.00 min Scan# 1371
Delta R.T. -0.00 min
Lab File: VU025172.D
Acq: 03 Jul 2018 04:14

Instrument :
MSVOA_U
ClientSampleId :
MW-1-062818

Tot Ion	Ratio	Lower	Upper
56	100		
69	31.9	24.8	37.2
84	82.6	65.2	97.8

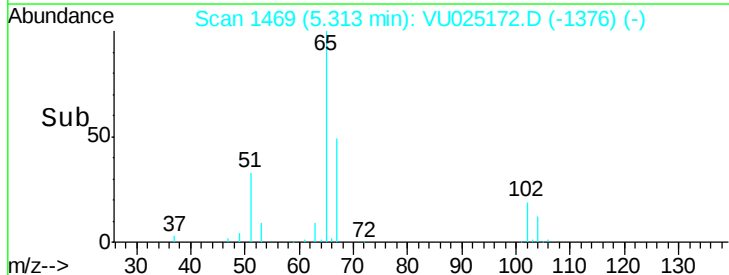
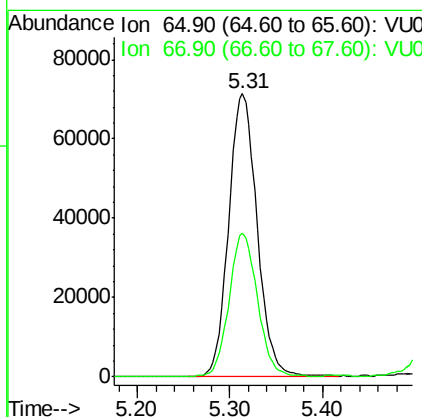
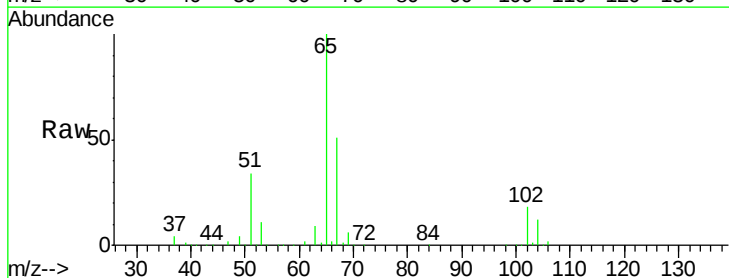
Manual Integrations
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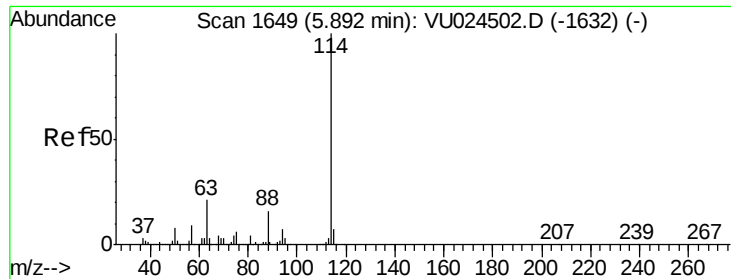
sam
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#33
1,2-Dichloroethane-d4
Concen: 46.63 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VU025172.D
Acq: 03 Jul 2018 04:14

Tgt Ion	Ratio	Lower	Upper
65	100		
67	49.7	0.0	107.0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.89 min Scan# 1648

Delta R.T. -0.00 min

Lab File: VU025172.D

Acq: 03 Jul 2018 04:14

Instrument :

MSVOA_U

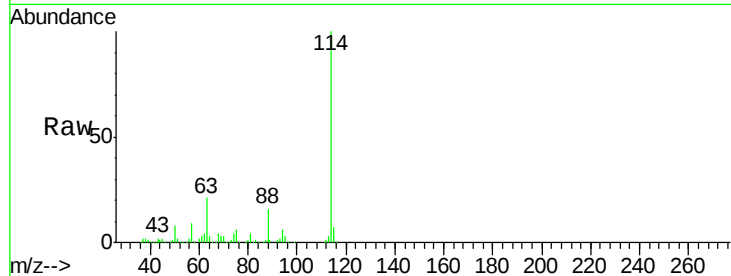
ClientSampleId :

MW-1-062818

Tot Ion:	114	Resp:	307139
Ion Ratio		Lower	Upper
114	100		
63	20.7	0.0	45.4
88	16.0	0.0	31.0

Manual Integrations
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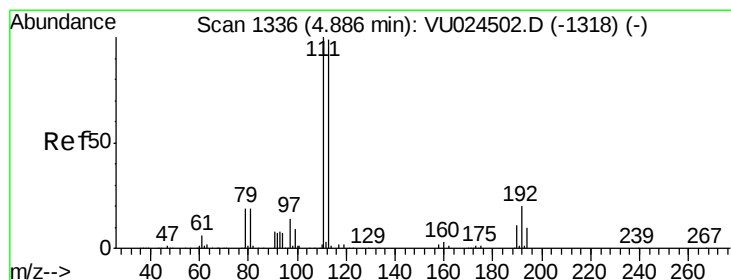
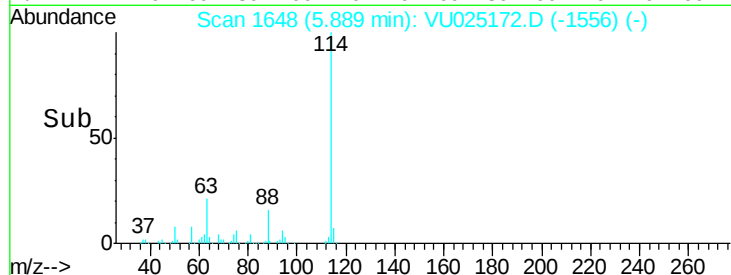
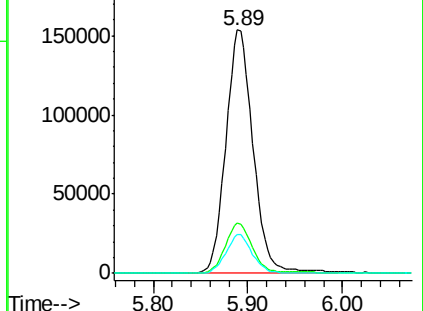
sam
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Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0



#35

Dibromofluoromethane

Concen: 46.03 ug/l

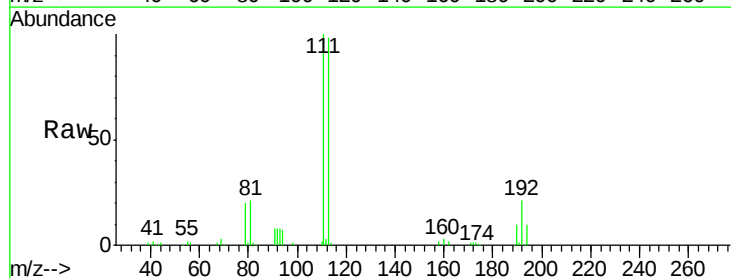
RT: 4.89 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU025172.D

Acq: 03 Jul 2018 04:14

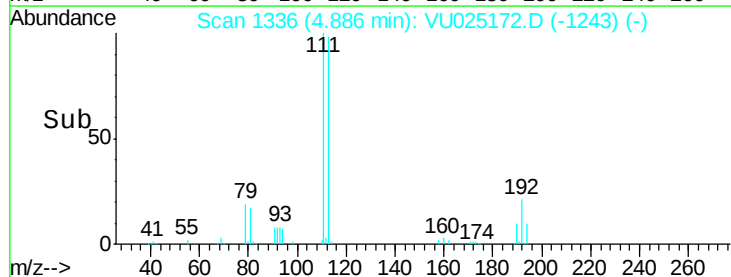
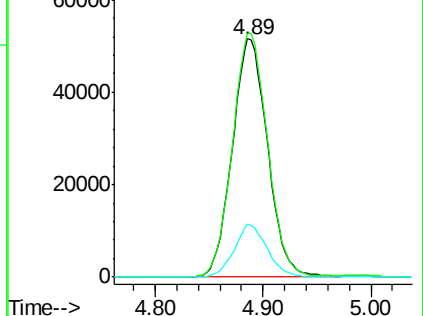
Tgt Ion:	113	Resp:	117343
Ion Ratio		Lower	Upper
113	100		
111	102.0	82.2	123.4
192	20.5	16.2	24.4

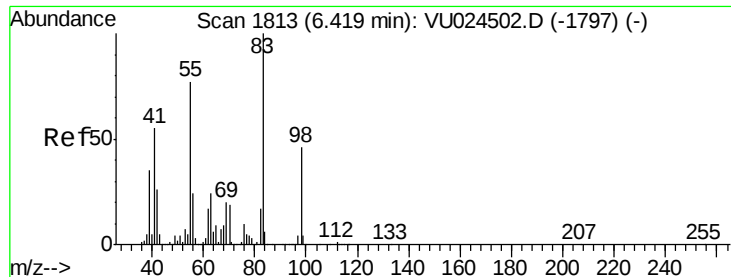


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





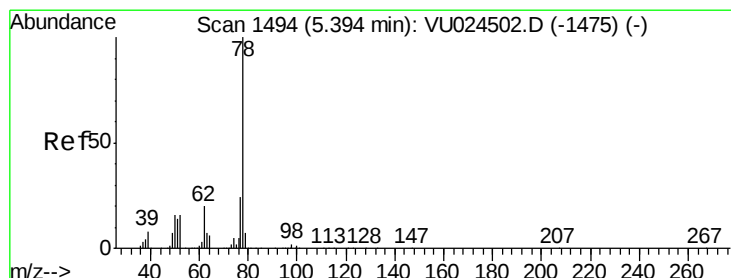
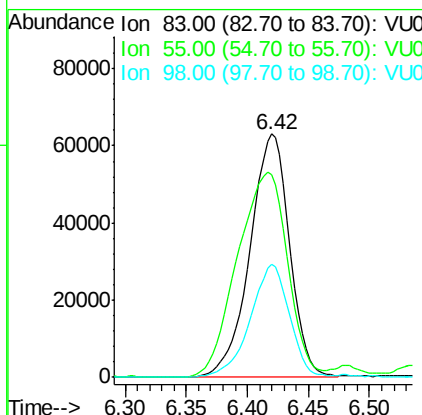
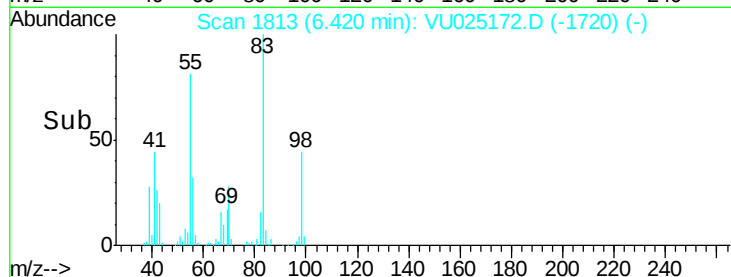
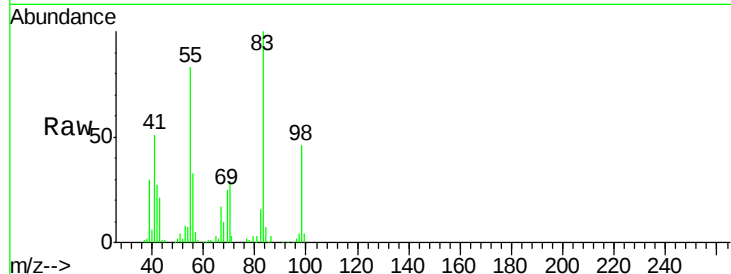
#39
Methvlcvclohexane
Concen: 31.54 ug/l
RT: 6.42 min Scan# 1813
Delta R.T. 0.00 min
Lab File: VU025172.D
Acq: 03 Jul 2018 04:14

Instrument :
MSVOA_U
ClientSampleId :
MW-1-062818

Tot Ion	Ratio	Lower	Upper
83	100		
55	83.0	65.8	98.6
98	46.4	36.7	55.1

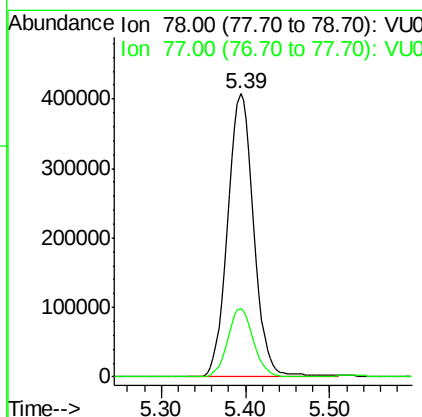
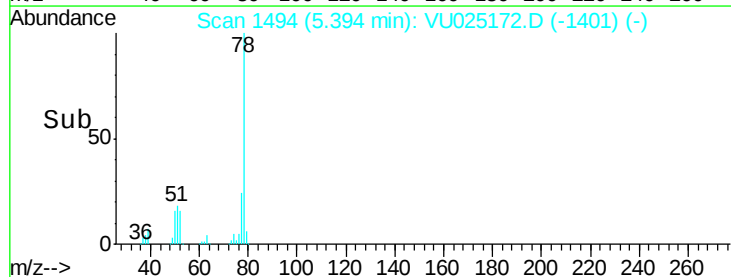
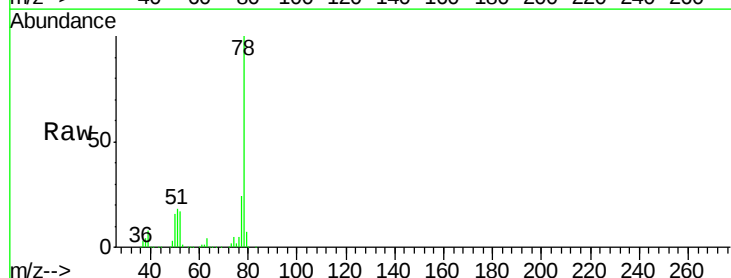
Manual Integrations
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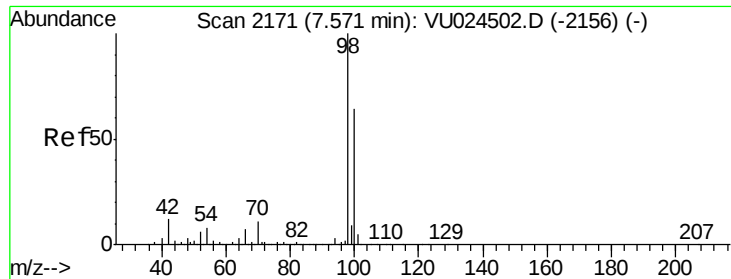
sam
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#40
Benzene
Concen: 85.33 ug/l
RT: 5.39 min Scan# 1494
Delta R.T. 0.00 min
Lab File: VU025172.D
Acq: 03 Jul 2018 04:14

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.2	19.2	28.8





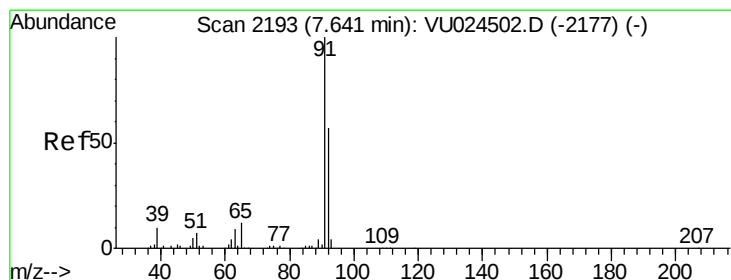
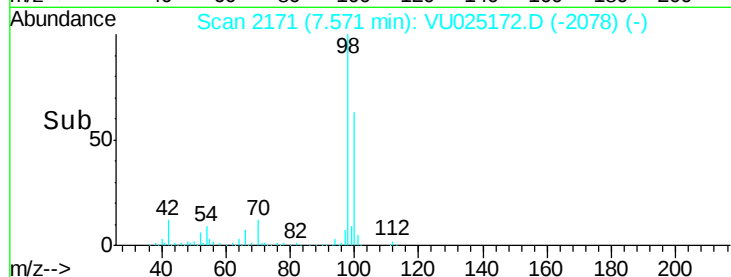
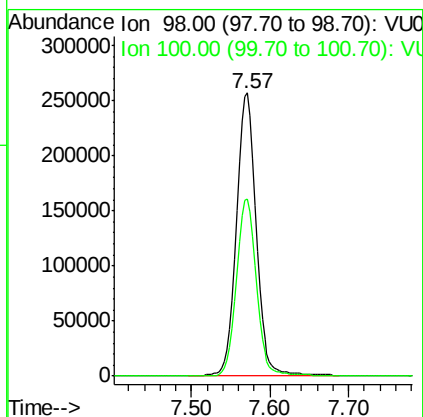
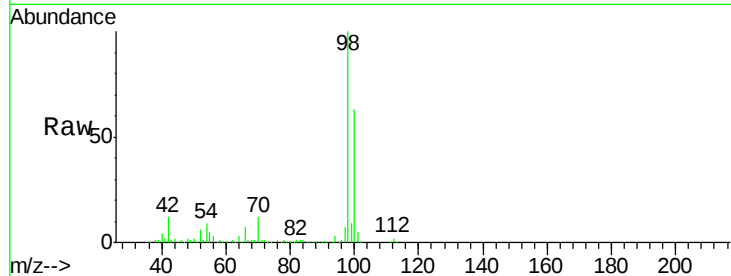
#50
Toluene-d8
Concen: 48.52 ug/l
RT: 7.57 min Scan# 2171
Delta R.T. 0.00 min
Lab File: VU025172.D
Acq: 03 Jul 2018 04:14

Instrument :
MSVOA_U
ClientSampleId :
MW-1-062818

Tot Ion: 98 Resp: 451102
Ion Ratio Lower Upper
98 100
100 62.9 51.1 76.7

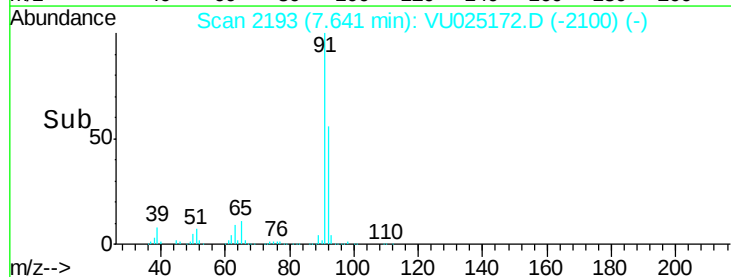
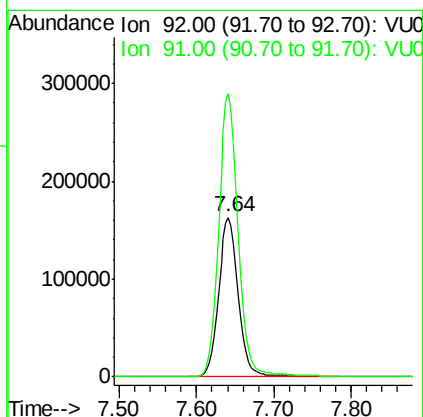
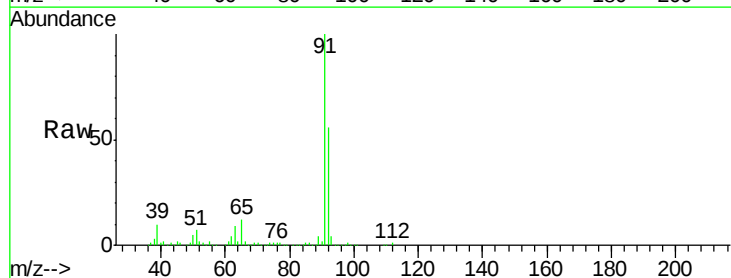
Manual Integrations
APPROVED

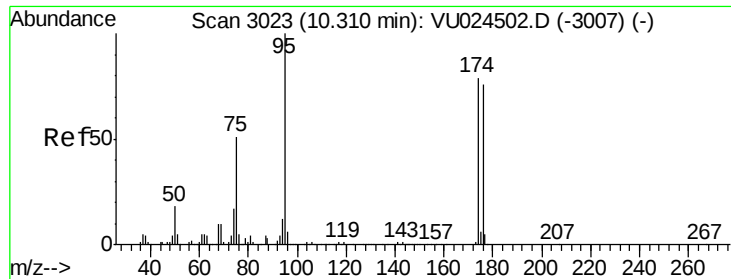
sam
7/3/2018 3:53:02 PM



#52
Toluene
Concen: 44.03 ug/l
RT: 7.64 min Scan# 2193
Delta R.T. 0.00 min
Lab File: VU025172.D
Acq: 03 Jul 2018 04:14

Tgt Ion: 92 Resp: 291347
Ion Ratio Lower Upper
92 100
91 176.0 140.5 210.7





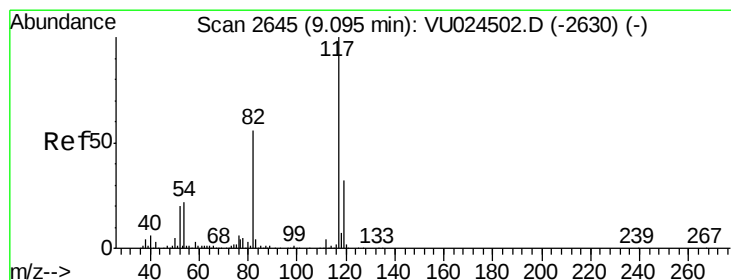
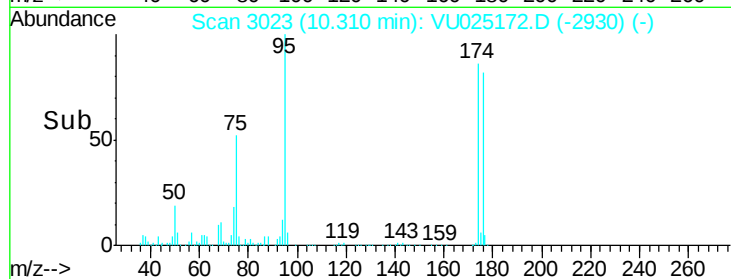
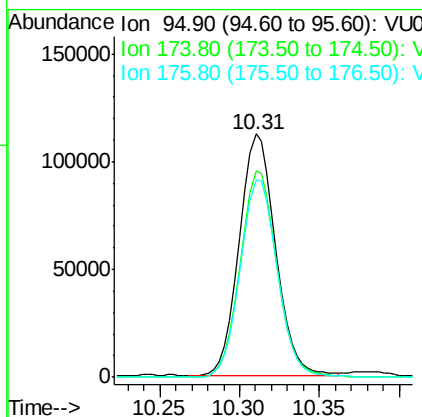
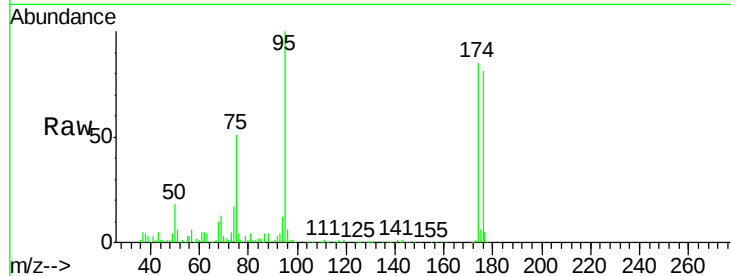
#62
4-Bromofluorobenzene
Concen: 46.78 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. 0.00 min
Lab File: VU025172.D
Acq: 03 Jul 2018 04:14

Instrument :
MSVOA_U
ClientSampleId :
MW-1-062818

Tot Ion	Ratio	Resp	Lower	Upper
95	100	172706		
174	87.0	0.0	165.8	
176	84.1	0.0	159.4	

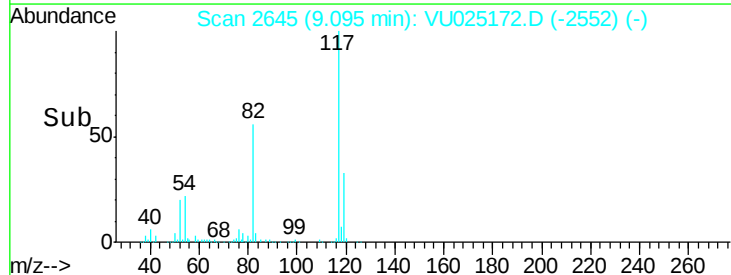
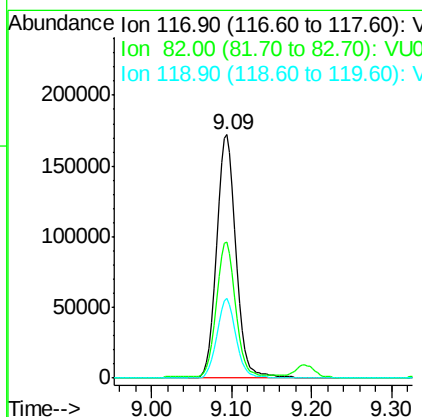
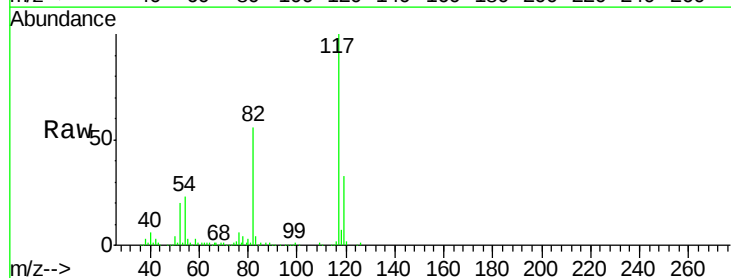
Manual Integrations
APPROVED

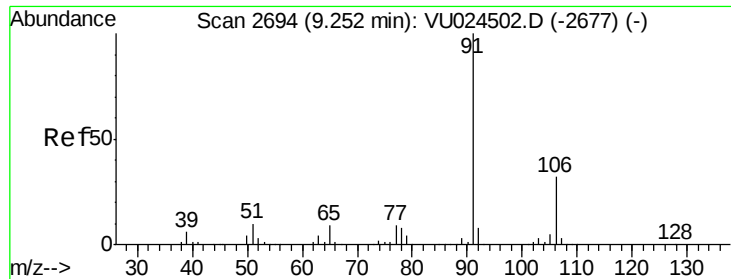
sam
7/3/2018 3:53:02 PM



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU025172.D
Acq: 03 Jul 2018 04:14

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	289887		
82	55.3	44.3	66.5	
119	32.7	25.4	38.2	





#67

Ethyl Benzene

Concen: 870.09 ug/l

RT: 9.26 min Scan# 2696

Delta R.T. 0.01 min

Lab File: VU025172.D

Acq: 03 Jul 2018 04:14

Tot Ion: 91 Resp: 11295988

Ion Ratio Lower Upper

91 100

106 32.5 24.2 36.4

Instrument :

MSVOA_U

ClientSampleId :

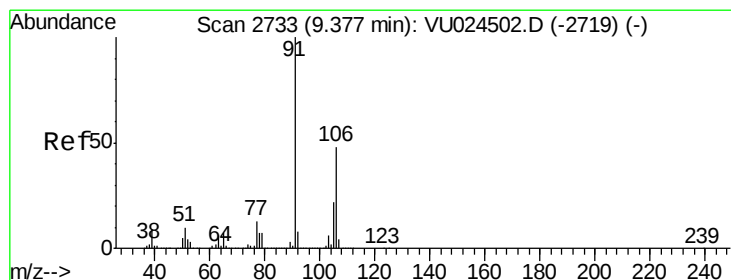
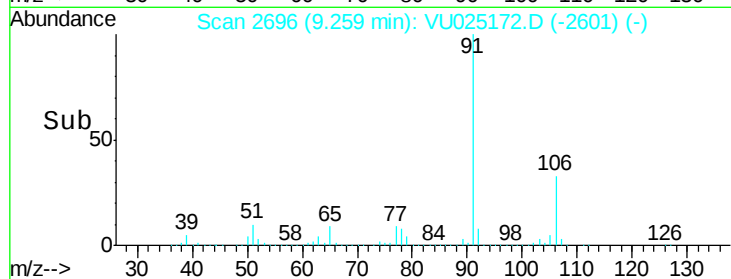
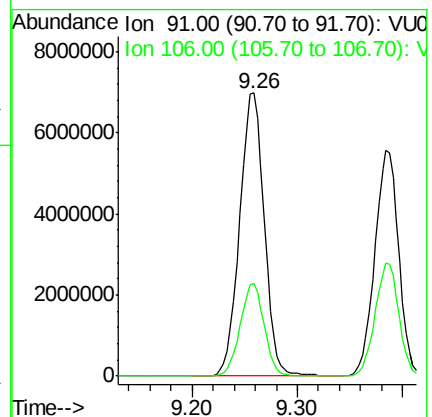
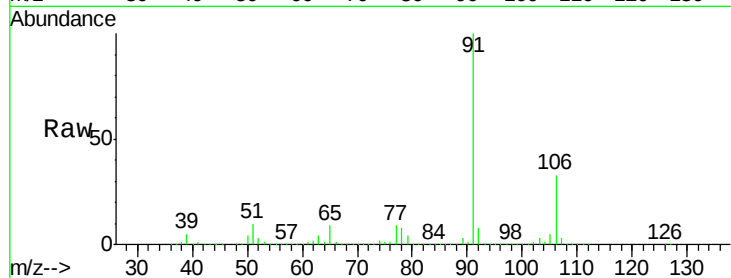
MW-1-062818

Manual Integrations

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sam

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#68

m/p-Xylenes

Concen: 877.64 ug/l

RT: 9.38 min Scan# 2735

Delta R.T. 0.01 min

Lab File: VU025172.D

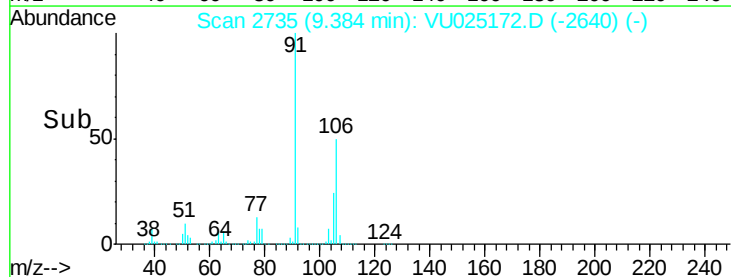
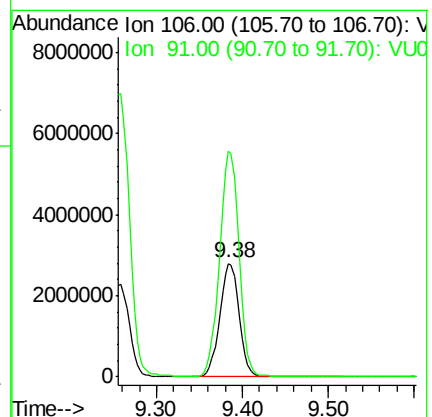
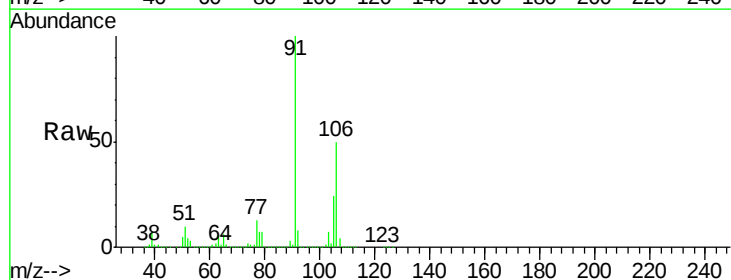
Acq: 03 Jul 2018 04:14

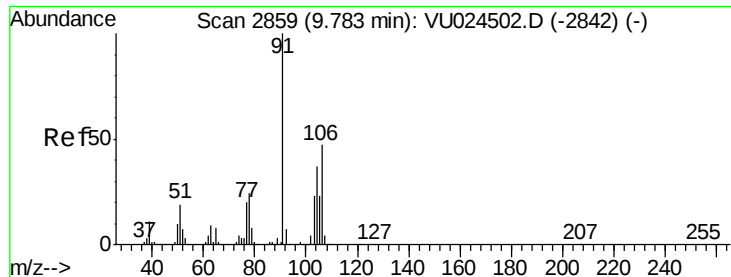
Tgt Ion: 106 Resp: 4375269

Ion Ratio Lower Upper

106 100

91 201.0 166.5 249.7





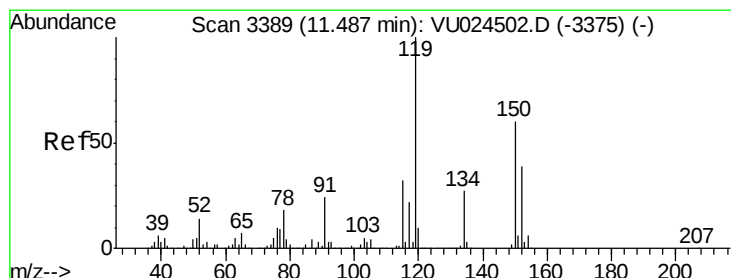
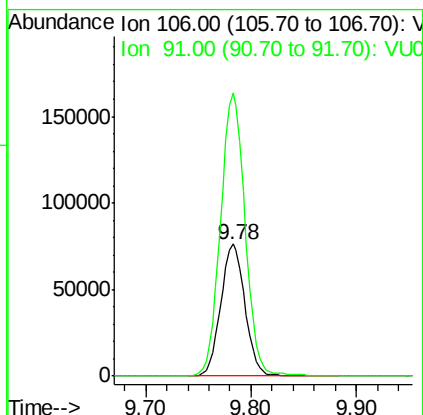
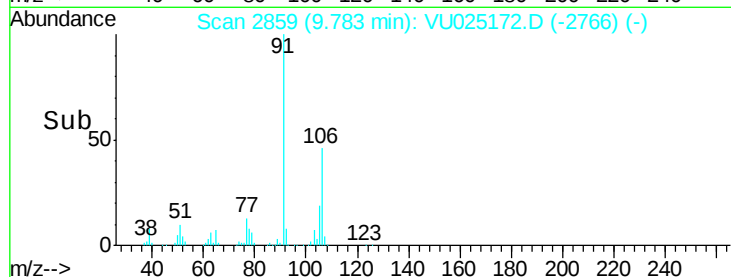
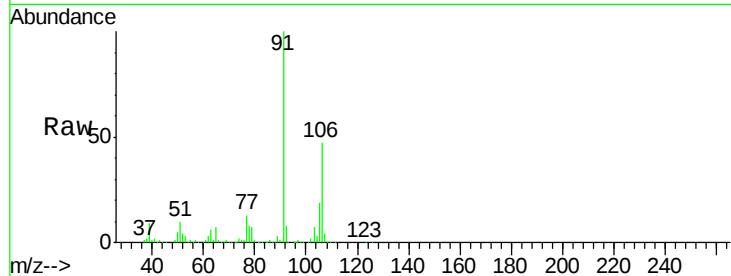
#69
o-Xylene
Concen: 24.59 ug/l
RT: 9.78 min Scan# 2859
Delta R.T. 0.00 min
Lab File: VU025172.D
Acq: 03 Jul 2018 04:14

Instrument :
MSVOA_U
ClientSampleId :
MW-1-062818

Tot Ion	Ratio	Lower	Upper
106	100		
91	215.5	110.7	331.9

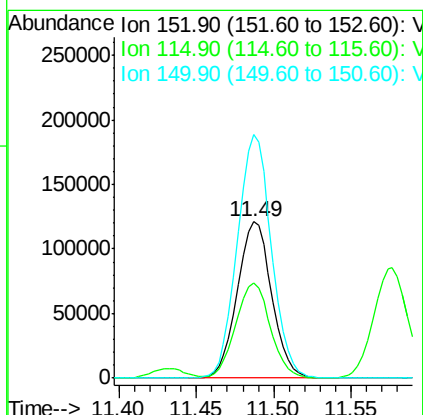
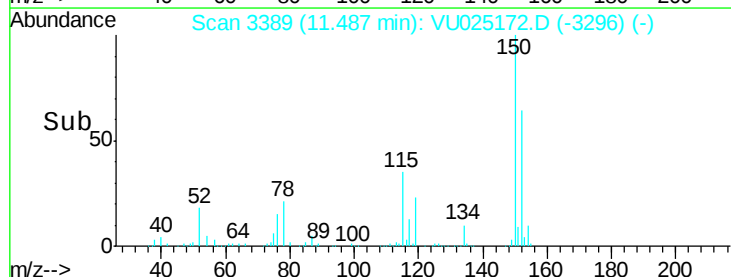
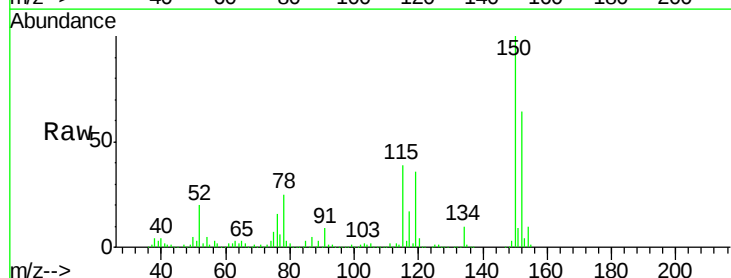
Manual Integrations
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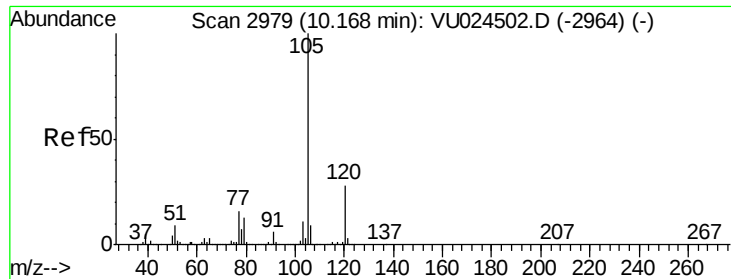
sam
7/3/2018 3:53:02 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. 0.00 min
Lab File: VU025172.D
Acq: 03 Jul 2018 04:14

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.9	43.0	129.0
150	154.4	0.0	354.0





#73

Isopropylbenzene

Concen: 49.94 ug/l

RT: 10.17 min Scan# 2979

Delta R.T. 0.00 min

Lab File: VU025172.D

Acq: 03 Jul 2018 04:14

Instrument :

MSVOA_U

ClientSampleId :

MW-1-062818

Tot Ion: 105 Resp: 717641

Ion Ratio Lower Upper

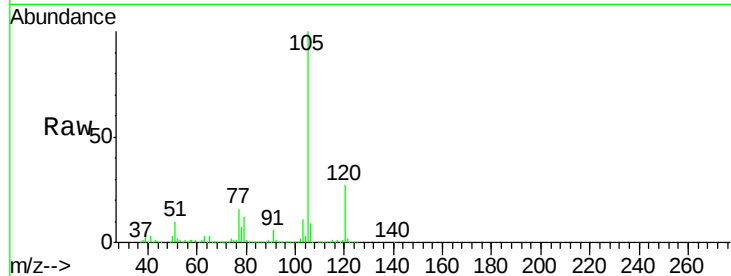
105 100

120 26.8 13.2 39.6

Manual Integrations
APPROVED

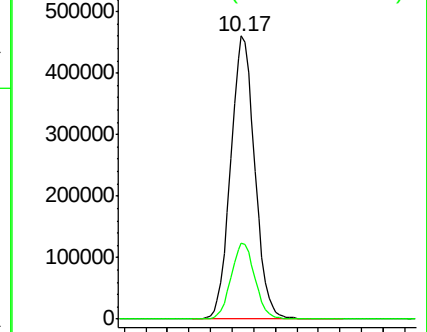
sam

7/3/2018 3:53:02 PM

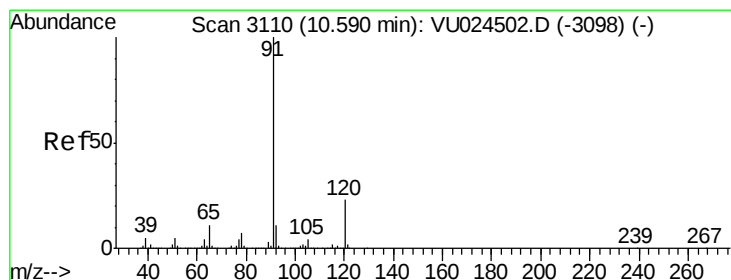
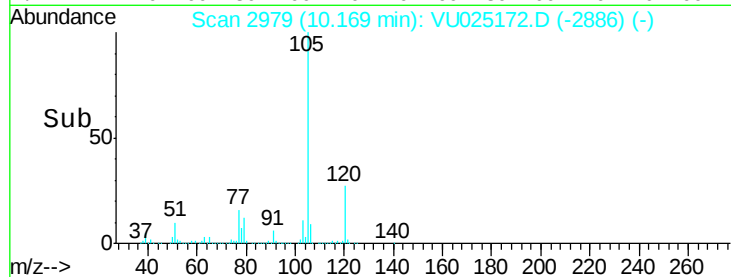


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



Time-->



#78

n-propylbenzene

Concen: 126.55 ug/l

RT: 10.59 min Scan# 3110

Delta R.T. 0.00 min

Lab File: VU025172.D

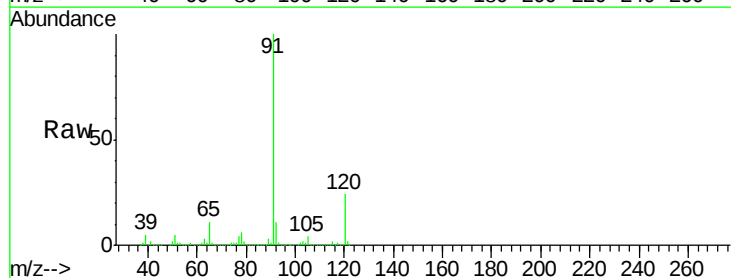
Acq: 03 Jul 2018 04:14

Tgt Ion: 91 Resp: 2142351

Ion Ratio Lower Upper

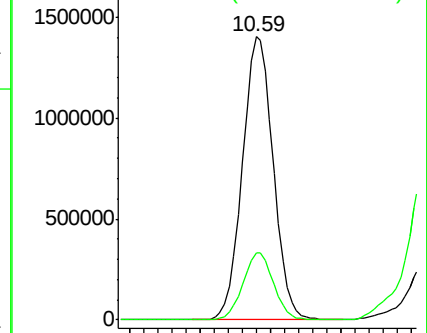
91 100

120 23.6 11.2 33.5

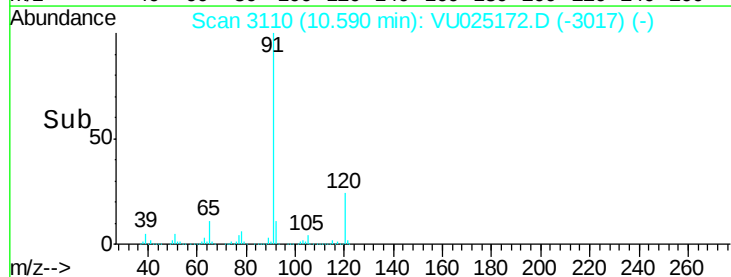


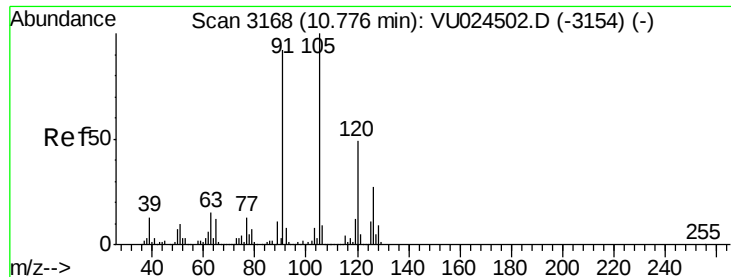
Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 120.00 (119.70 to 120.70): V



Time-->





#80

1,3,5-Trimethylbenzene

Concen: 7.37 ug/l m

RT: 10.78 min Scan# 3168

Delta R.T. 0.00 min

Lab File: VU025172.D

Acq: 03 Jul 2018 04:14

Instrument :

MSVOA_U

ClientSampleId :

MW-1-062818

Tot Ion:105 Resp: 91824

Ion Ratio Lower Upper

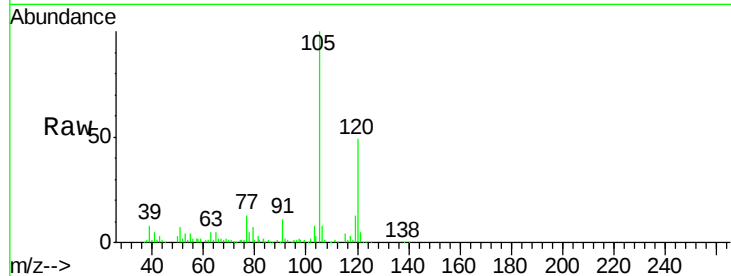
105 100

120 1411.4 24.1 72.2

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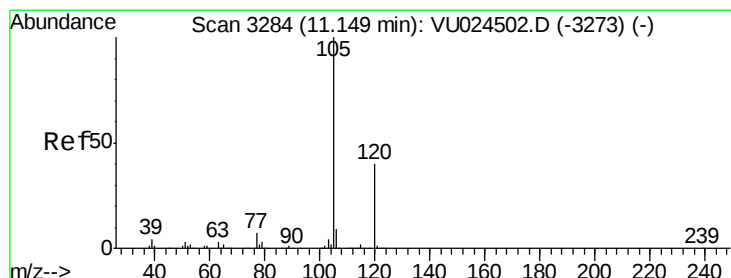
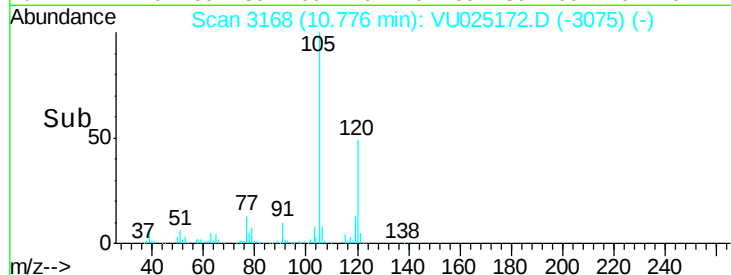
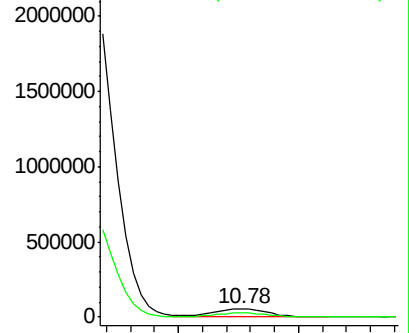
sam

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#84

1,2,4-Trimethylbenzene

Concen: 1319.00 ug/l m

RT: 11.15 min Scan# 3285

Delta R.T. 0.00 min

Lab File: VU025172.D

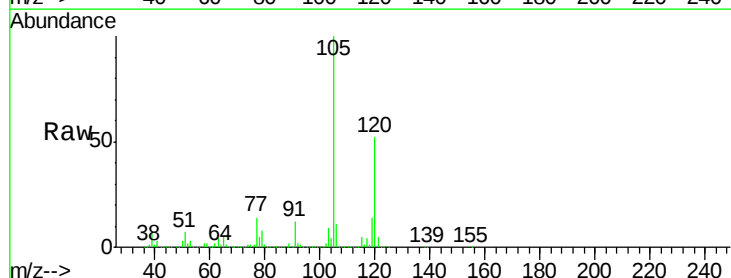
Acq: 03 Jul 2018 04:14

Tgt Ion:105 Resp:16742804

Ion Ratio Lower Upper

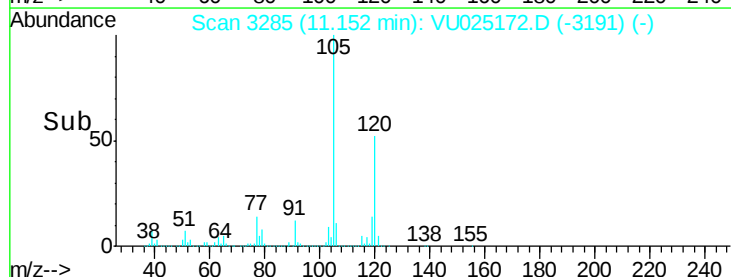
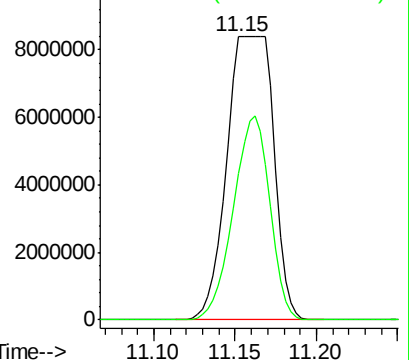
105 100

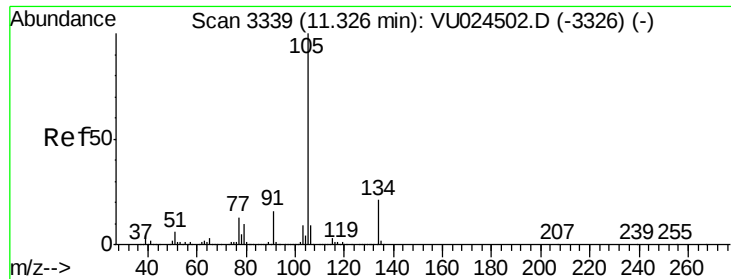
120 11.5 22.6 67.8#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 12.16 ug/l m

RT: 11.33 min Scan# 3340

Delta R.T. 0.00 min

Lab File: VU025172.D

Acq: 03 Jul 2018 04:14

Instrument :

MSVOA_U

ClientSampleId :

MW-1-062818

Tot Ion:105 Resp: 182382

Ion Ratio Lower Upper

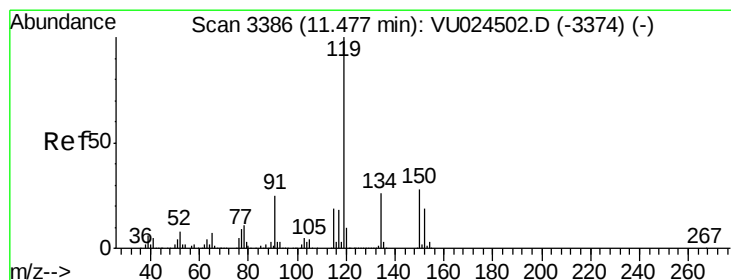
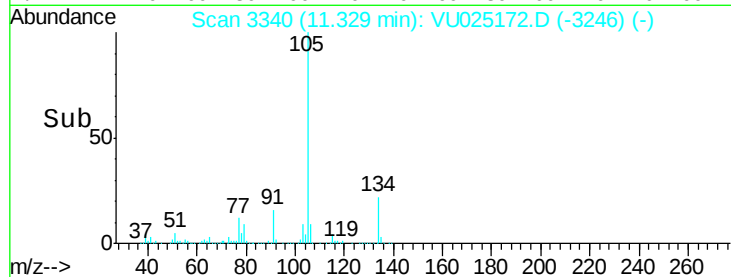
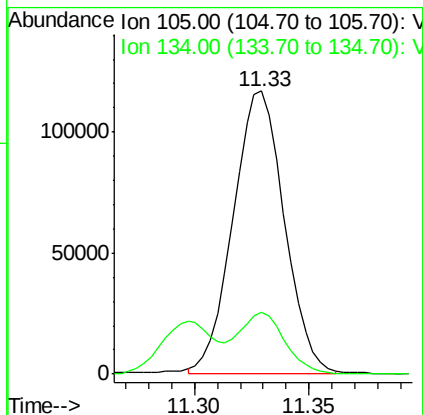
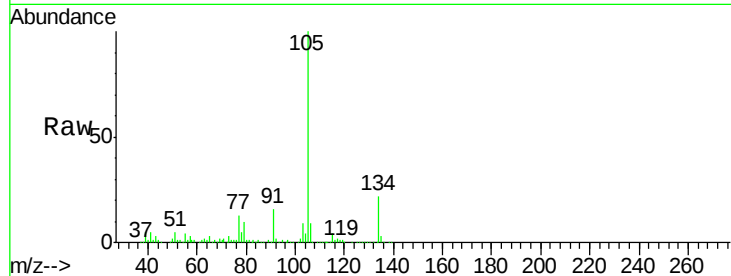
105 100

134 0.0 9.7 29.1#

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sam

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#86

p-Isopropyltoluene

Concen: 9.42 ug/l

RT: 11.48 min Scan# 3387

Delta R.T. 0.00 min

Lab File: VU025172.D

Acq: 03 Jul 2018 04:14

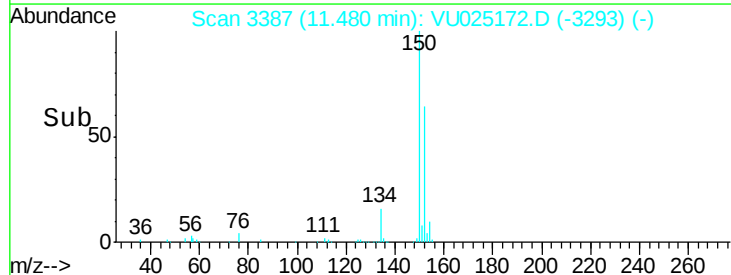
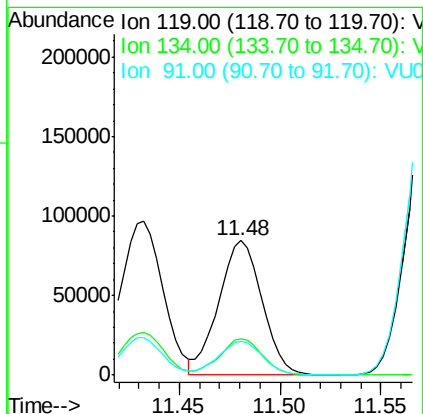
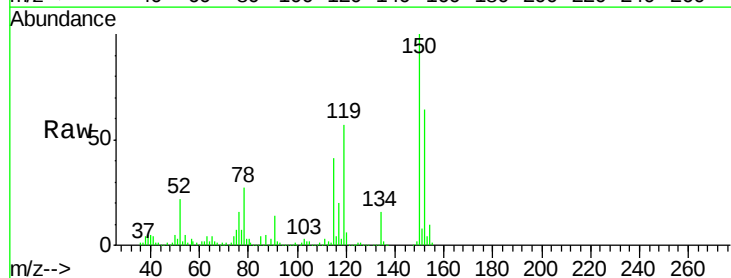
Tgt Ion:119 Resp: 126585

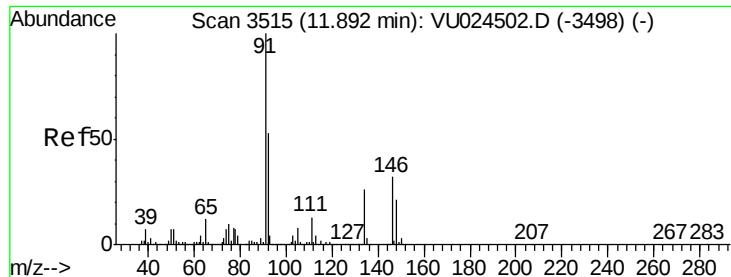
Ion Ratio Lower Upper

119 100

134 27.0 12.9 38.6

91 25.0 12.0 36.1





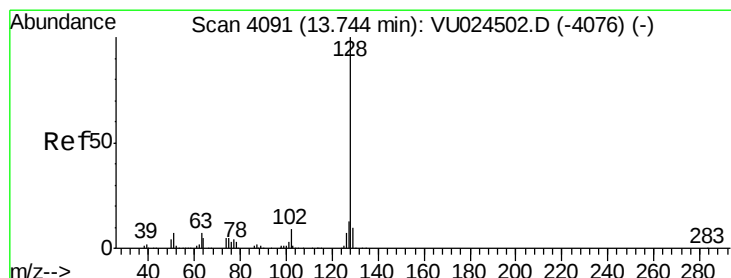
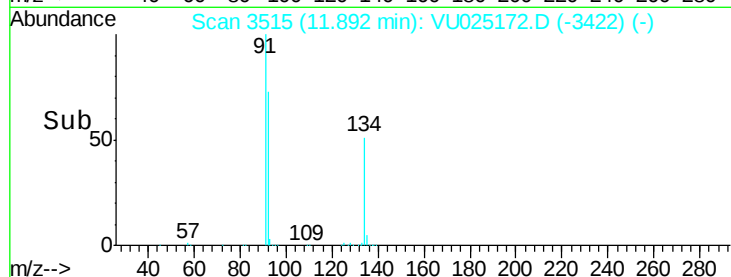
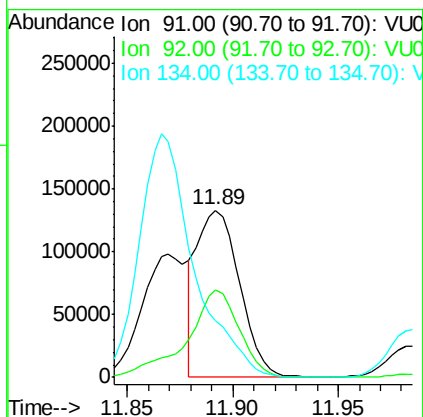
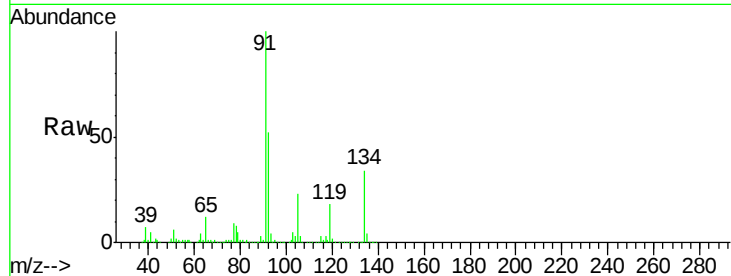
#89
n-Butylbenzene
Concen: 15.43 ug/l
RT: 11.89 min Scan# 3515
Delta R.T. 0.00 min
Lab File: VU025172.D
Acq: 03 Jul 2018 04:14

Instrument :
MSVOA_U
ClientSampleId :
MW-1-062818

Tot Ion	Ratio	Lower	Upper
91	100		
92	65.5	25.6	76.8
134	0.0	12.3	36.8#

Manual Integrations
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sam
7/3/2018 3:53:02 PM



#95
Naphthalene
Concen: 135.24 ug/l
RT: 13.74 min Scan# 4091
Delta R.T. 0.00 min
Lab File: VU025172.D
Acq: 03 Jul 2018 04:14

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.6	16.0
129	11.0	8.6	12.8

