

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111418\
 Data File : VD060374.D
 Acq On : 14 Nov 2018 12:48
 Operator : JC/SY
 Sample : J5770-01
 Misc : 6.52g/5ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 OR-01-111218-A

Quant Time: Nov 14 16:03:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 06 13:56:04 2018
 Response via : Initial Calibration

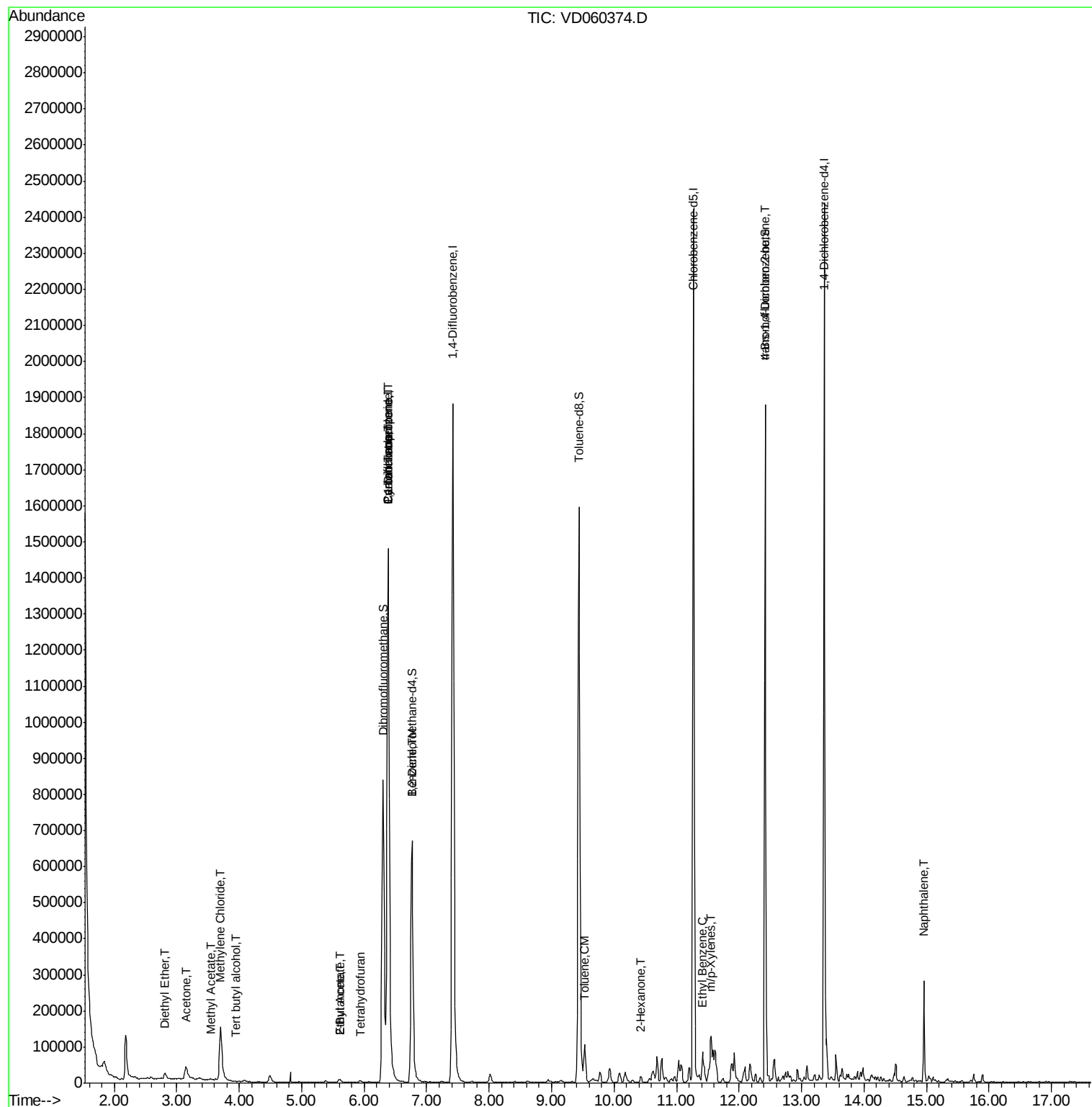
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.38	168	1491493	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	7.43	114	2054997	50.00	ug/l	-0.03
63) Chlorobenzene-d5	11.27	117	1310412	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	13.36	152	529767	50.00	ug/l	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.77	65	514253	48.15	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	96.30%	
35) Dibromofluoromethane	6.31	113	696890	45.48	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	90.96%	
50) Toluene-d8	9.44	98	1231568	27.46	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	54.92%	
62) 4-Bromofluorobenzene	12.42	95	508171	31.27	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	62.54%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	2.82	74	6932	2.815	ug/l	96
11) Tert butyl alcohol	3.95	59	467	1.065	ug/l #	70
16) Acetone	3.15	43	84489	45.609	ug/l	98
18) Methyl Acetate	3.54	43	6137	1.554	ug/l #	84
20) Methylene Chloride	3.71	84	104699	6.371	ug/l	91
25) 2-Butanone	5.60	43	18754	4.871	ug/l #	91
29) Tetrahydrofuran	5.93	42	3711	1.828	ug/l #	75
31) Cyclohexane	6.38	56	32362	1.269	ug/l #	1
36) 1,1-Dichloropropene	6.38	75	103725	5.109	ug/l #	46
37) Ethyl Acetate	5.60	43	18754	2.007	ug/l #	69
38) Carbon Tetrachloride	6.38	117	114682	6.089	ug/l #	15
40) Benzene	6.77	78	81603	1.575	ug/l	99
52) Toluene	9.52	92	52777	1.594	ug/l	91
59) 2-Hexanone	10.42	43	10601	1.947	ug/l #	31
67) Ethyl Benzene	11.41	91	50616	1.042	ug/l	92
68) m/p-Xylenes	11.55	106	32684	1.824	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.42	75	208702	115.675	ug/l #	15
89) n-Butylbenzene	13.64	91	5368	Below Cal		95
95) Naphthalene	14.96	128	165118	11.383	ug/l	99

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

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Quant Title : SW846 8260
QLast Update : Tue Nov 06 13:56:04 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.38 min Scan# 494

Delta R.T. -0.04 min

Lab File: VD060374.D

Acq: 14 Nov 2018 12:48

Instrument :

MSVOA_D

ClientSampleId :

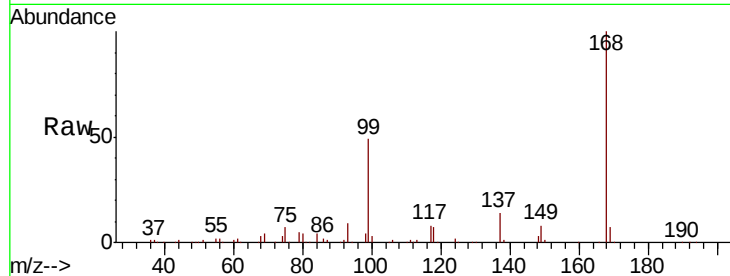
OR-01-111218-A

Tot Ion:168 Resp: 1491493

Ion Ratio Lower Upper

168 100

99 49.4 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.38

500000

400000

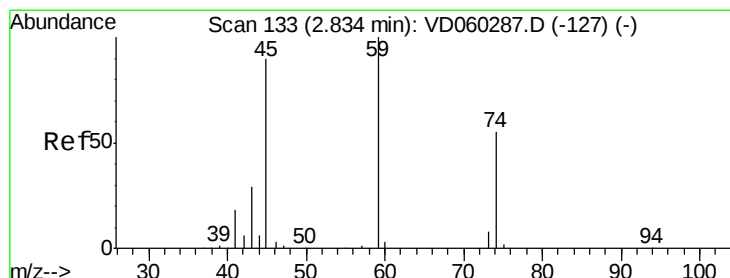
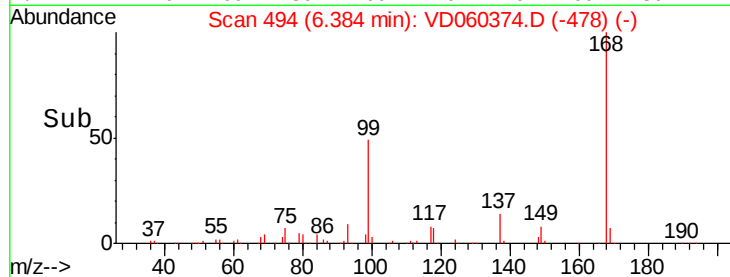
300000

200000

100000

0

Time-->



#8

Diethyl Ether

Concen: 2.815 ug/l

RT: 2.82 min Scan# 132

Delta R.T. -0.01 min

Lab File: VD060374.D

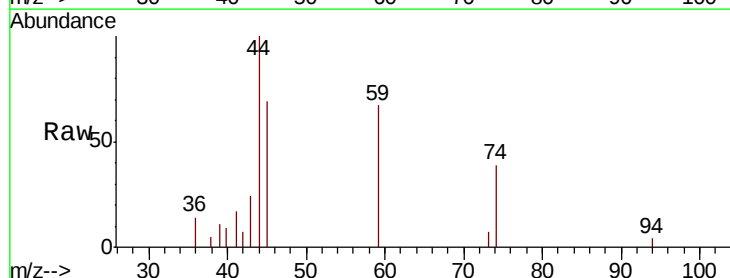
Acq: 14 Nov 2018 12:48

Tgt Ion: 74 Resp: 6932

Ion Ratio Lower Upper

74 100

45 175.7 84.8 254.4



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC

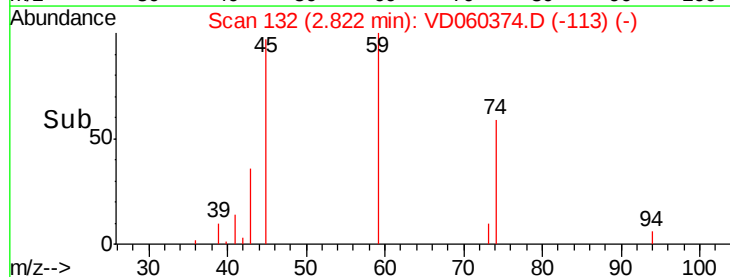
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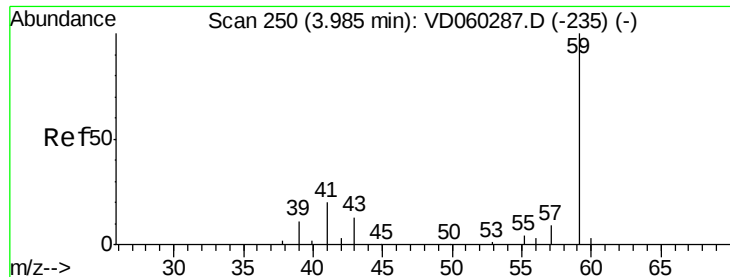
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2000

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Time-->



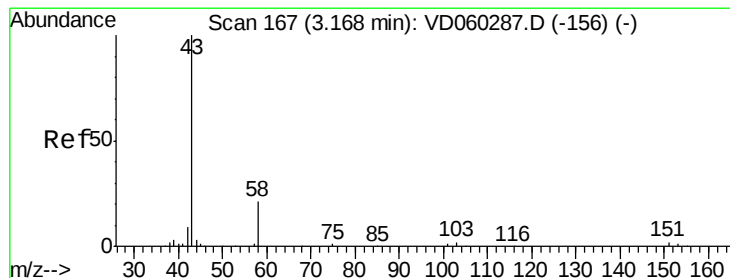
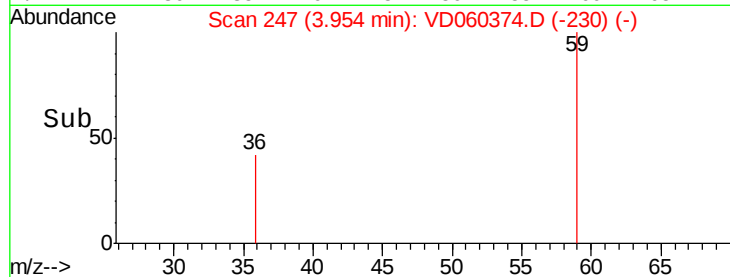
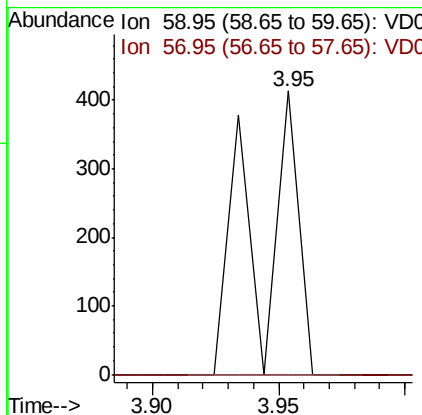
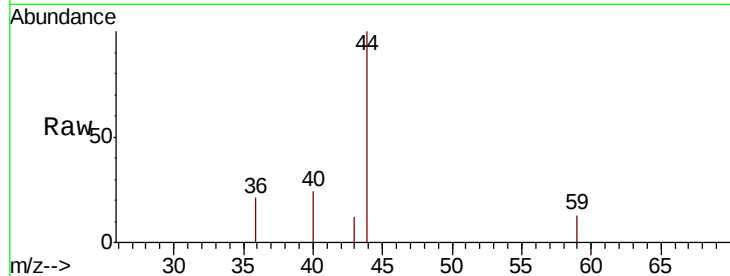


#11

Tert butyl alcohol
 Concen: 1.065 ug/l
 RT: 3.95 min Scan# 247
 Delta R.T. -0.03 min
 Lab File: VD060374.D
 Acq: 14 Nov 2018 12:48

Instrument :
 MSVOA_D
 ClientSampleId :
 OR-01-111218-A

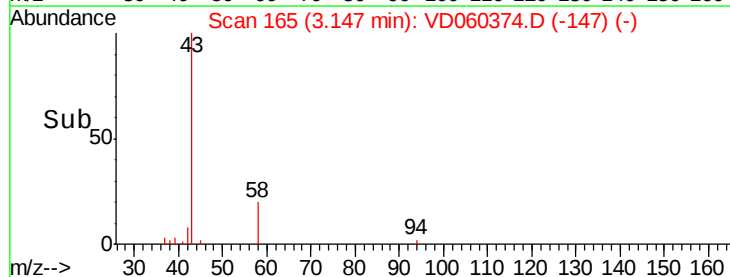
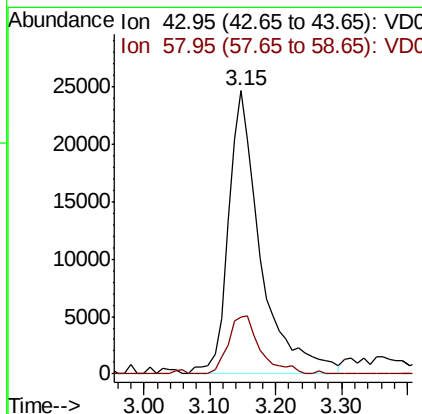
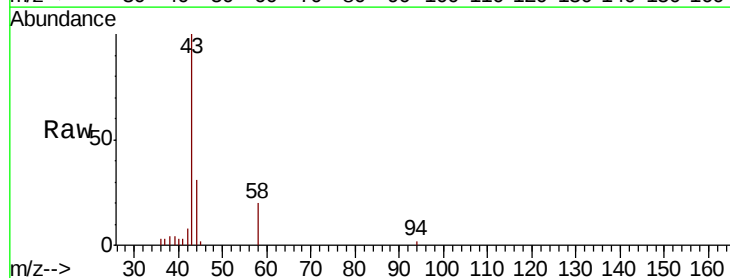
Tot Ion: 59 Resp: 467
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.3 13.9#

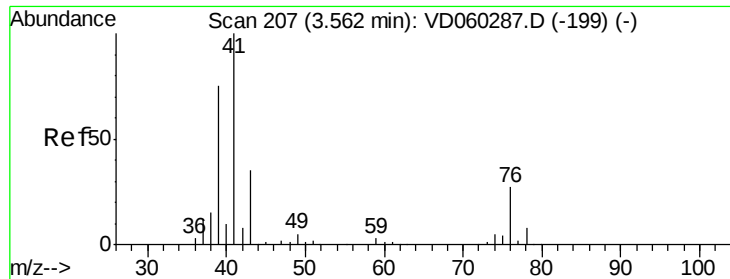


#16

Acetone
 Concen: 45.609 ug/l
 RT: 3.15 min Scan# 165
 Delta R.T. -0.02 min
 Lab File: VD060374.D
 Acq: 14 Nov 2018 12:48

Tgt Ion: 43 Resp: 84489
 Ion Ratio Lower Upper
 43 100
 58 20.2 16.9 25.3

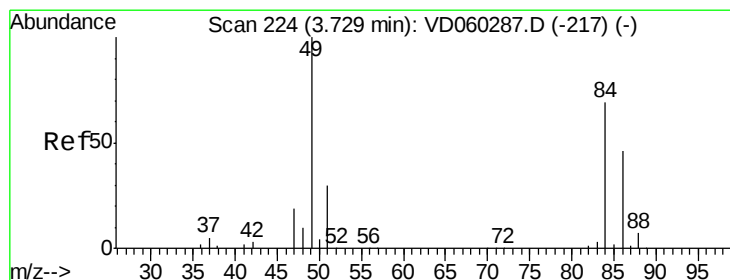
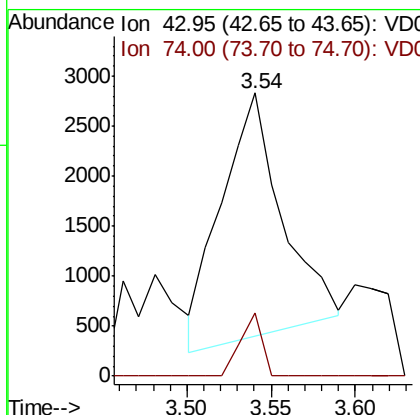
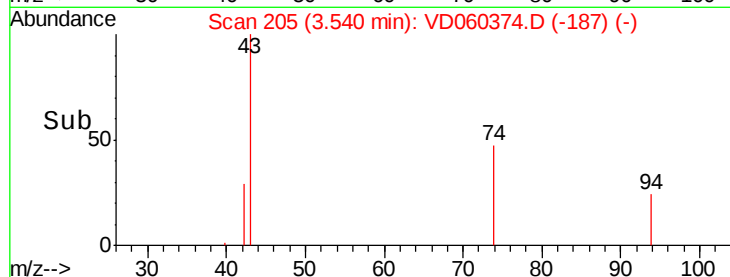
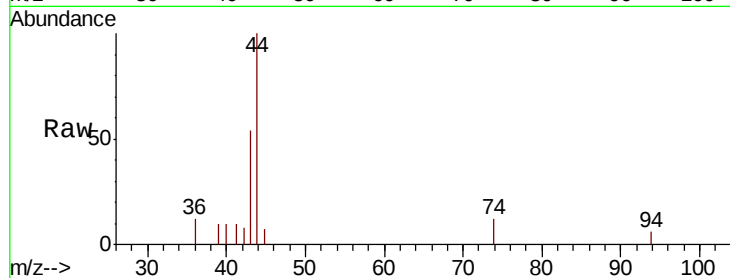




#18
Methyl Acetate
Concen: 1.554 ug/l
RT: 3.54 min Scan# 205
Delta R.T. -0.02 min
Lab File: VD060374.D
Acq: 14 Nov 2018 12:48

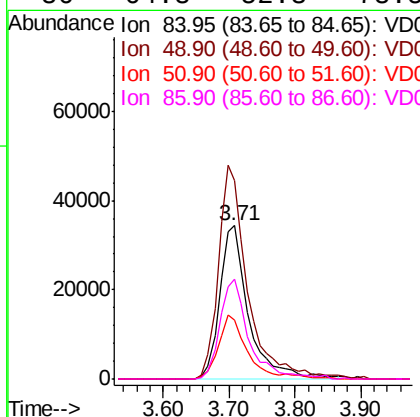
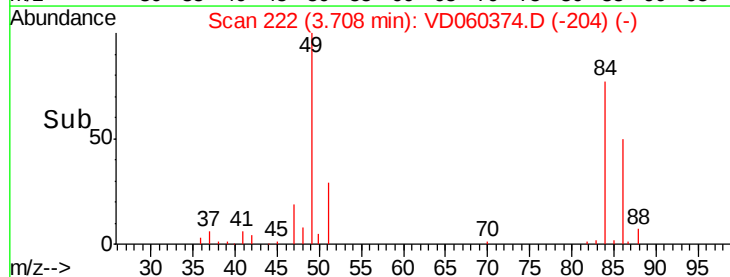
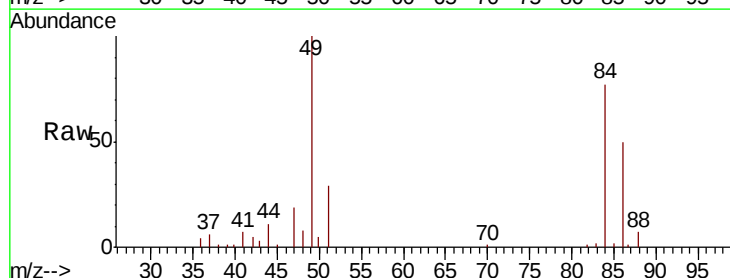
Instrument :
MSVOA_D
ClientSampleId :
OR-01-111218-A

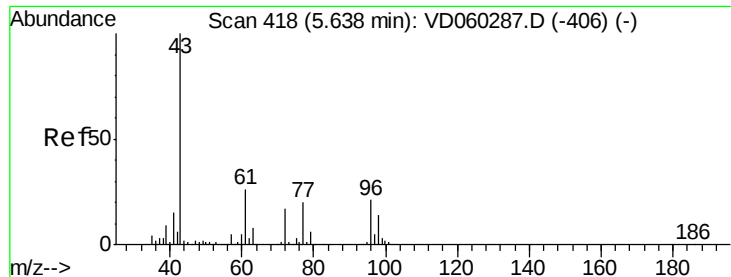
Tot Ion: 43 Resp: 6137
Ion Ratio Lower Upper
43 100
74 22.3 12.4 18.6#



#20
Methylene Chloride
Concen: 6.371 ug/l
RT: 3.71 min Scan# 222
Delta R.T. -0.02 min
Lab File: VD060374.D
Acq: 14 Nov 2018 12:48

Tgt Ion: 84 Resp: 104699
Ion Ratio Lower Upper
84 100
49 129.6 115.6 173.4
51 38.1 35.6 53.4
86 64.8 52.3 78.5

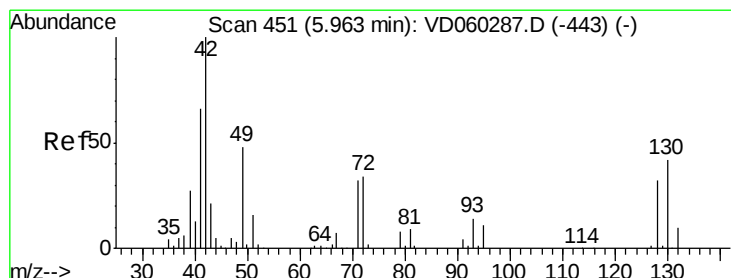
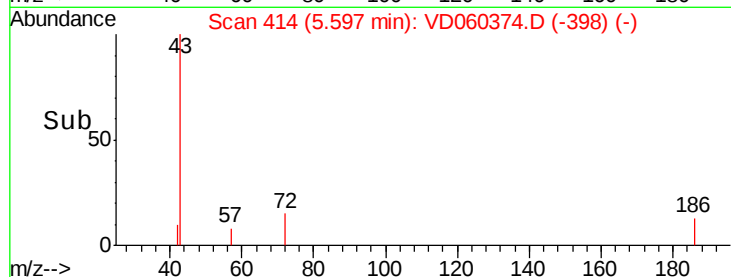
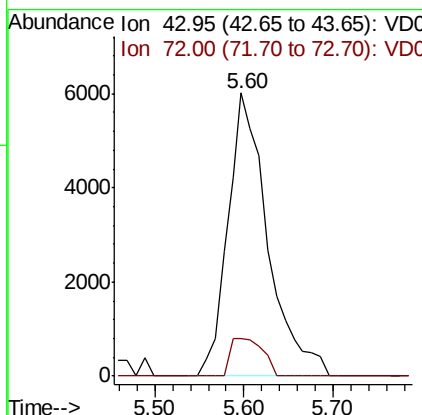
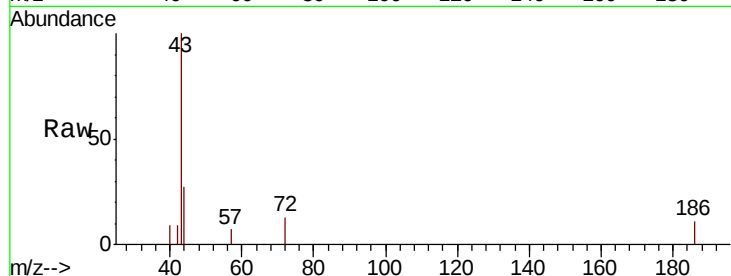




#25
2-Butanone
Concen: 4.871 ug/l
RT: 5.60 min Scan# 414
Delta R.T. -0.04 min
Lab File: VD060374.D
Acq: 14 Nov 2018 12:48

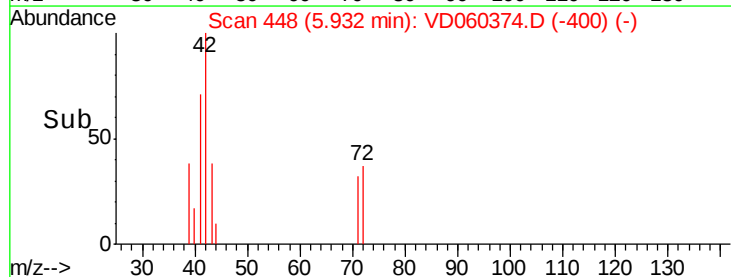
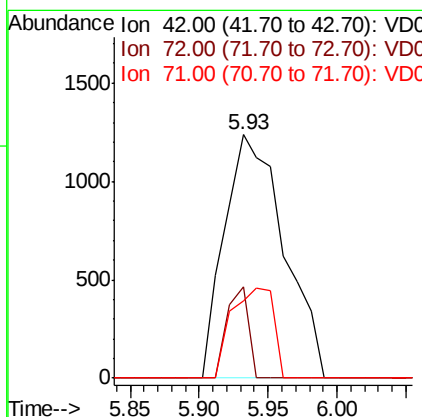
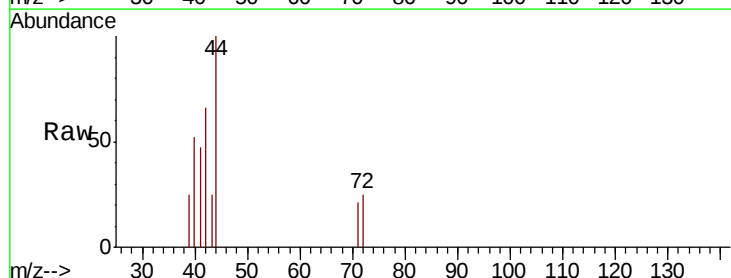
Instrument :
MSVOA_D
ClientSampleId :
OR-01-111218-A

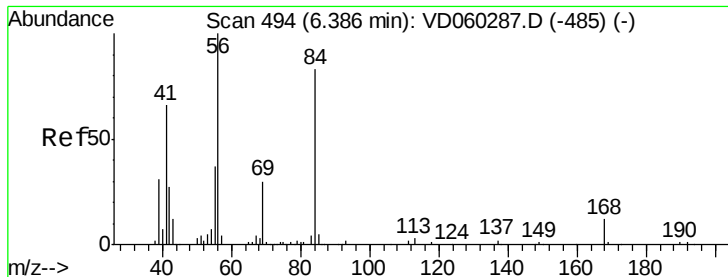
Tot Ion: 43 Resp: 18754
Ion Ratio Lower Upper
43 100
72 13.5 13.8 20.8#



#29
Tetrahydrofuran
Concen: 1.828 ug/l
RT: 5.93 min Scan# 448
Delta R.T. -0.03 min
Lab File: VD060374.D
Acq: 14 Nov 2018 12:48

Tgt Ion: 42 Resp: 3711
Ion Ratio Lower Upper
42 100
72 13.3 27.6 41.4#
71 26.1 26.5 39.7#





#31

Cyclohexane

Concen: 1.269 ug/l

RT: 6.38 min Scan# 494

Delta R.T. -0.00 min

Lab File: VD060374.D

Acq: 14 Nov 2018 12:48

Instrument :

MSVOA_D

ClientSampleId :

OR-01-111218-A

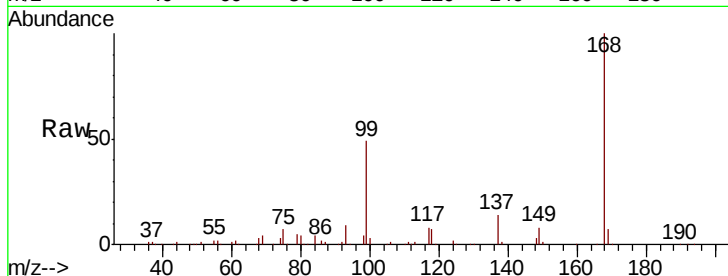
Tot Ion: 56 Resp: 32362

Ion Ratio Lower Upper

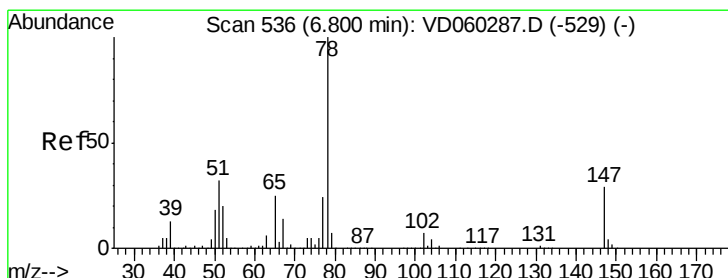
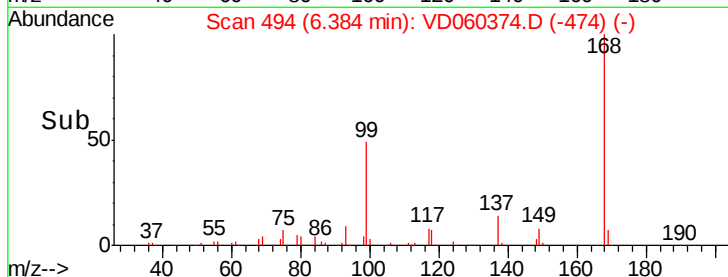
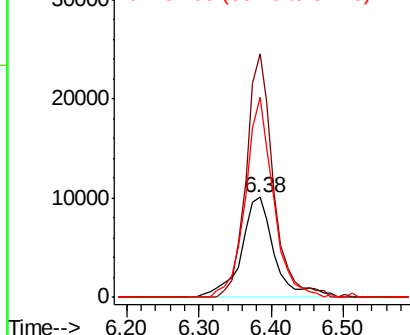
56 100

69 243.2 22.2 33.2#

84 200.1 63.0 94.4#



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC



#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 6.77 min Scan# 533

Delta R.T. -0.03 min

Lab File: VD060374.D

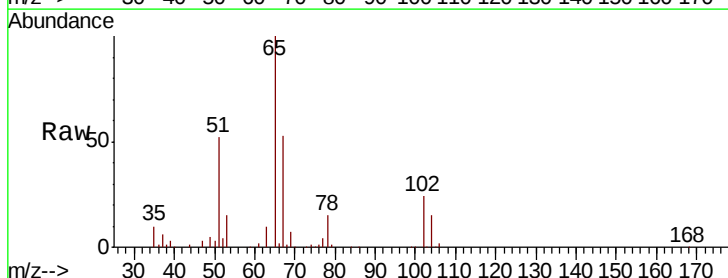
Acq: 14 Nov 2018 12:48

Tgt Ion: 65 Resp: 514253

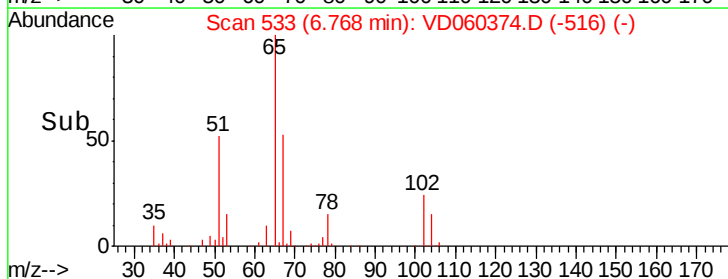
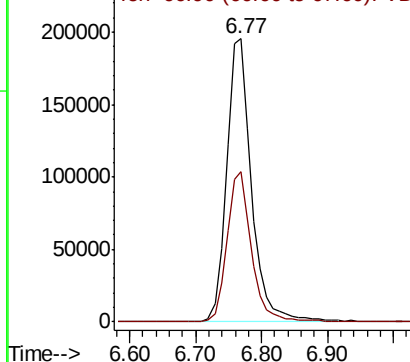
Ion Ratio Lower Upper

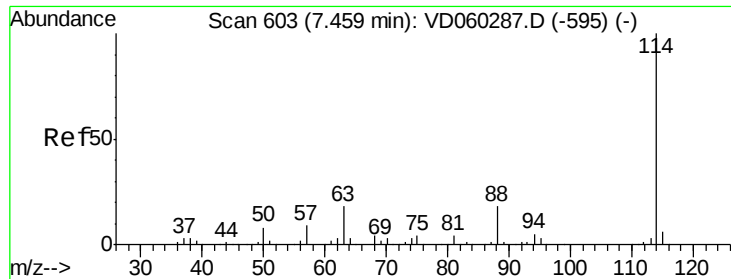
65 100

67 53.0 0.0 109.8



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC

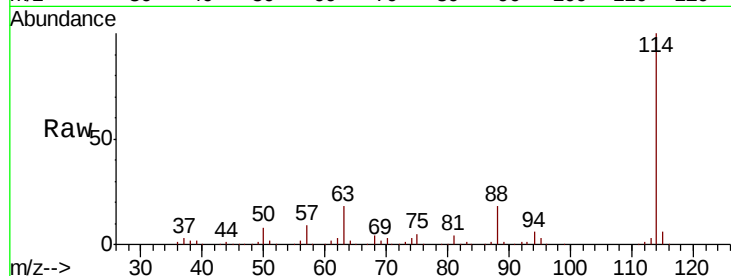




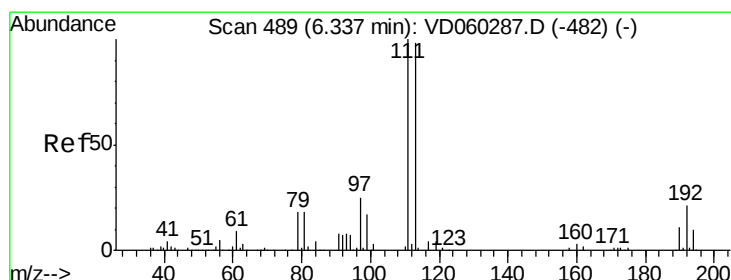
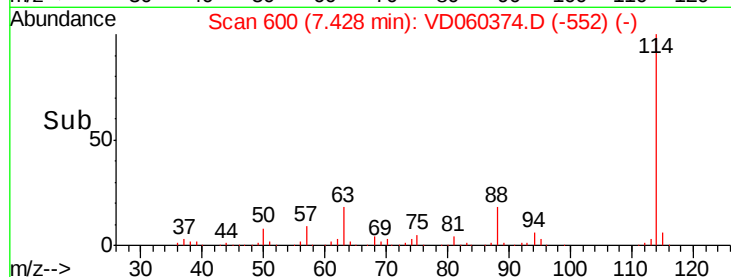
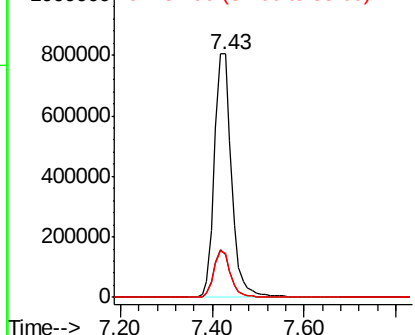
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.43 min Scan# 600
 Delta R.T. -0.03 min
 Lab File: VD060374.D
 Acq: 14 Nov 2018 12:48

Instrument :
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Tot Ion:114 Resp: 2054997
 Ion Ratio Lower Upper
 114 100
 63 17.6 0.0 34.0
 88 18.2 0.0 35.4

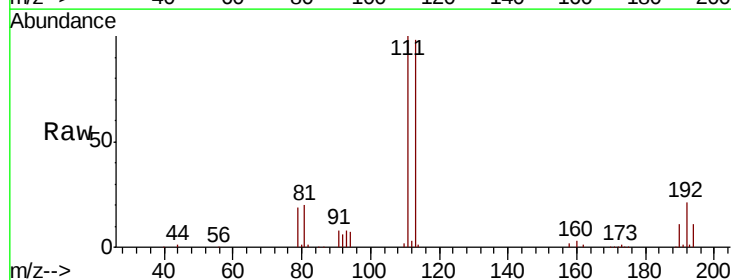


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

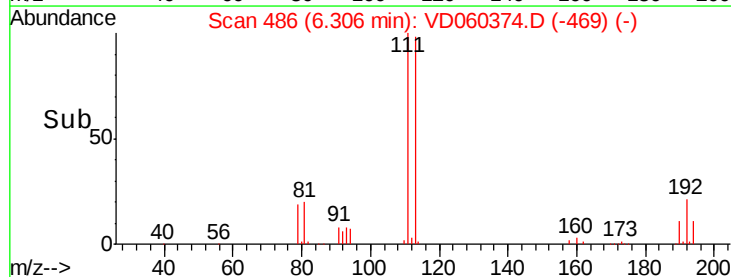
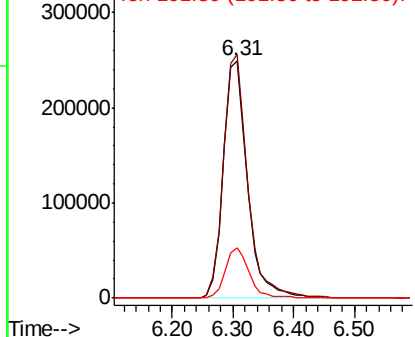


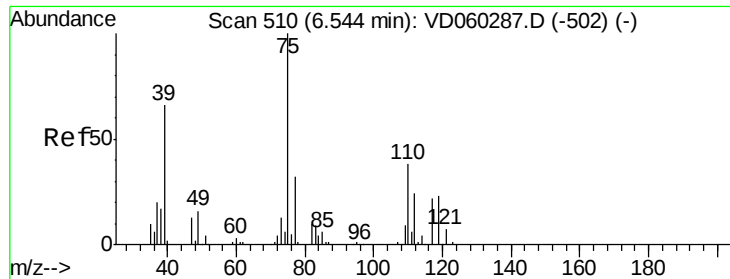
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.31 min Scan# 486
 Delta R.T. -0.03 min
 Lab File: VD060374.D
 Acq: 14 Nov 2018 12:48

Tgt Ion:113 Resp: 696890
 Ion Ratio Lower Upper
 113 100
 111 102.5 81.6 122.4
 192 21.5 16.5 24.7



Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 5.109 ug/l

RT: 6.38 min Scan# 494

Delta R.T. -0.16 min

Lab File: VD060374.D

Acq: 14 Nov 2018 12:48

Instrument :

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ClientSampleId :

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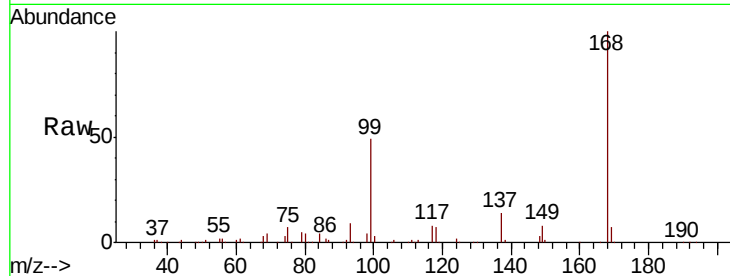
Tot Ion: 75 Resp: 103725

Ion Ratio Lower Upper

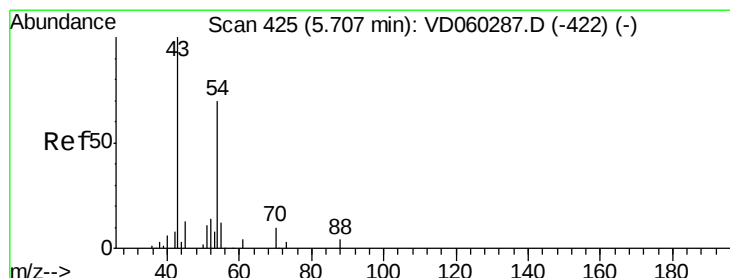
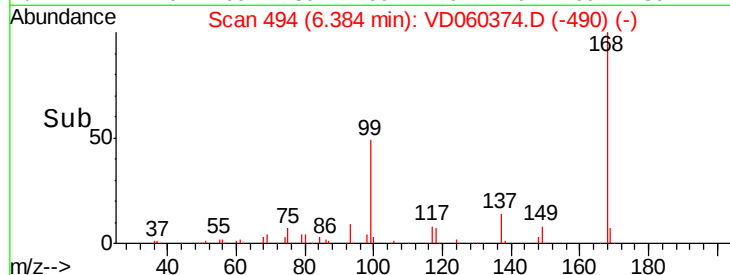
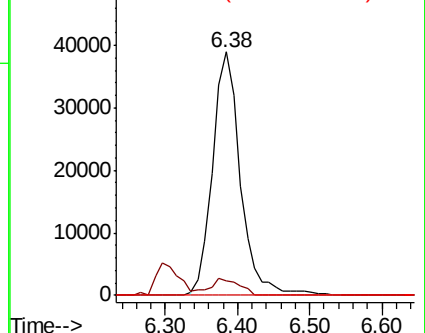
75 100

110 6.1 18.0 54.0#

77 0.0 25.6 38.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 109.90 (109.60 to 110.60): VDC
Ion 76.95 (76.65 to 77.65): VDC



#37

Ethyl Acetate

Concen: 2.007 ug/l

RT: 5.60 min Scan# 414

Delta R.T. -0.11 min

Lab File: VD060374.D

Acq: 14 Nov 2018 12:48

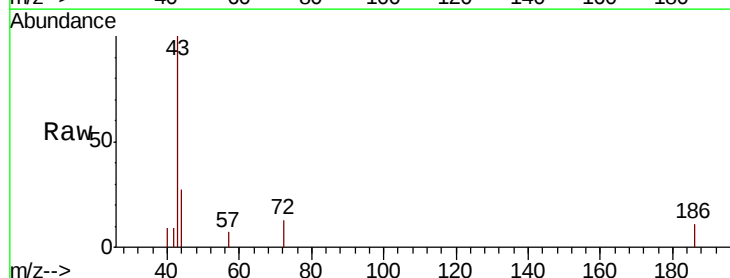
Tgt Ion: 43 Resp: 18754

Ion Ratio Lower Upper

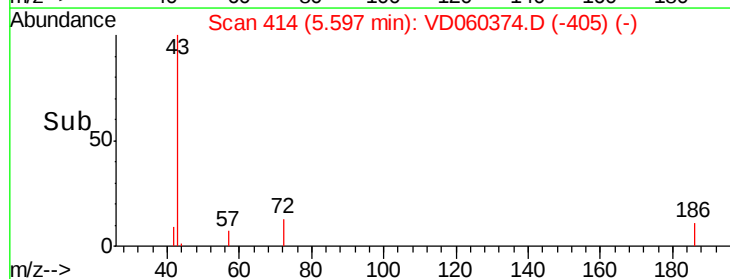
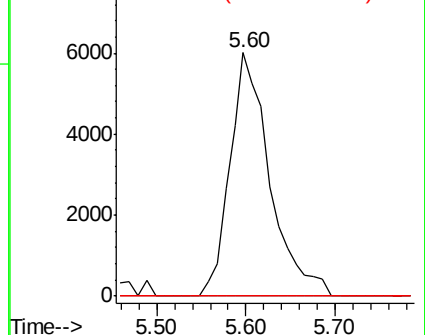
43 100

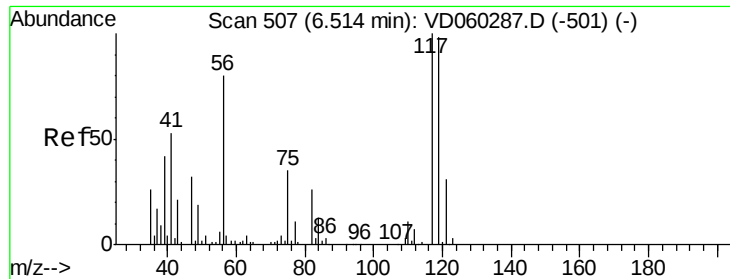
61 0.0 11.8 17.6#

70 0.0 6.2 9.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

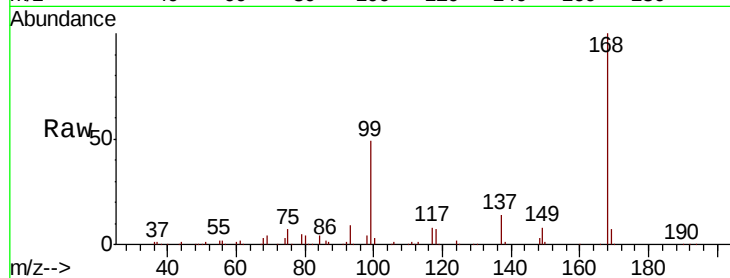




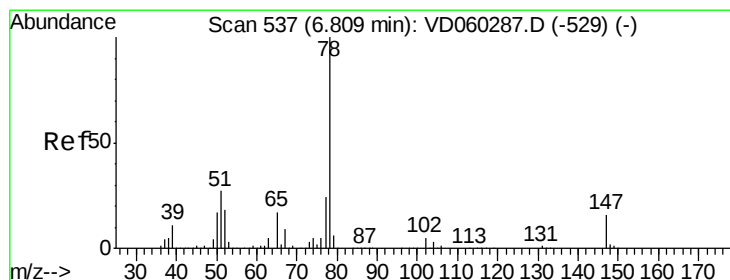
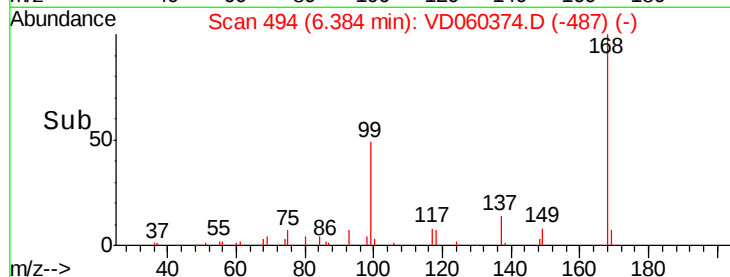
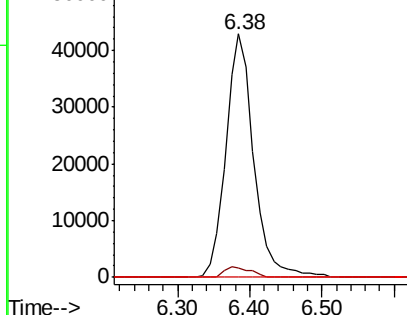
#38
Carbon Tetrachloride
Concen: 6.089 ug/l
RT: 6.38 min Scan# 494
Delta R.T. -0.13 min
Lab File: VD060374.D
Acq: 14 Nov 2018 12:48

Instrument :
MSVOA_D
ClientSampleId :
OR-01-111218-A

Tot Ion:117 Resp: 114682
Ion Ratio Lower Upper
117 100
119 3.6 76.6 115.0#
121 0.0 24.3 36.5#

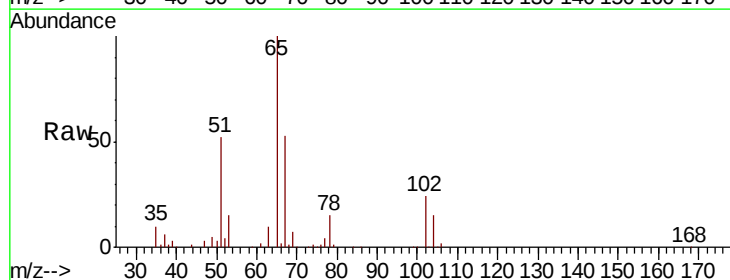


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

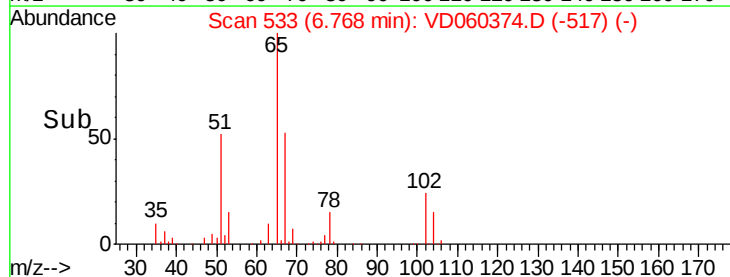
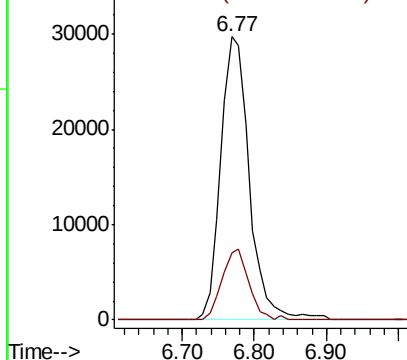


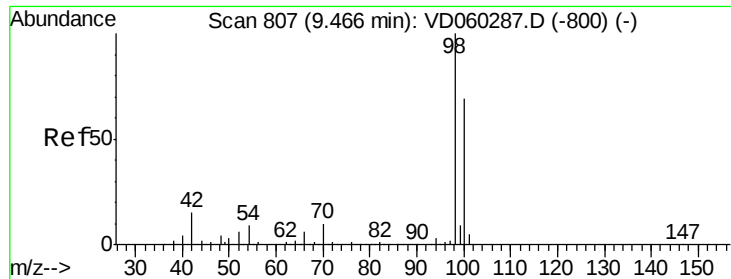
#40
Benzene
Concen: 1.575 ug/l
RT: 6.77 min Scan# 533
Delta R.T. -0.04 min
Lab File: VD060374.D
Acq: 14 Nov 2018 12:48

Tgt Ion: 78 Resp: 81603
Ion Ratio Lower Upper
78 100
77 23.8 18.8 28.2



Abundance Ion 77.95 (77.65 to 78.65): V
Ion 76.95 (76.65 to 77.65): V





#50

Toluene-d8

Concen: N.D. ug/l

RT: 9.44 min Scan# 804

Delta R.T. -0.03 min

Lab File: VD060374.D

Acq: 14 Nov 2018 12:48

Instrument :

MSVOA_D

ClientSampleId :

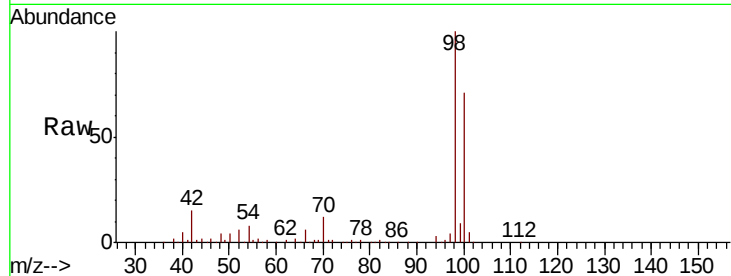
OR-01-111218-A

Tot Ion: 98 Resp: 1231568

Ion Ratio Lower Upper

98 100

100 70.6 55.2 82.8



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

600000

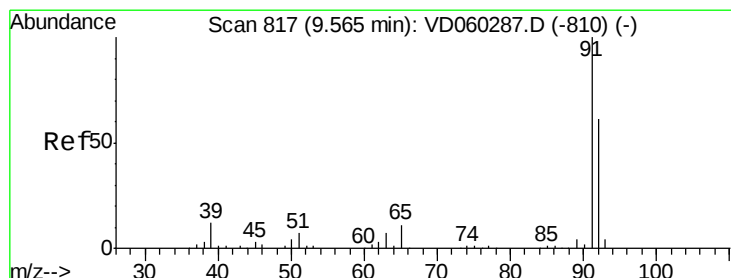
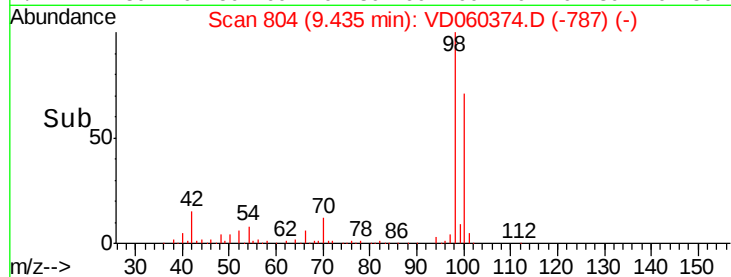
400000

200000

0

9.30 9.40 9.50 9.60

Time-->



#52

Toluene

Concen: 1.594 ug/l

RT: 9.52 min Scan# 813

Delta R.T. -0.04 min

Lab File: VD060374.D

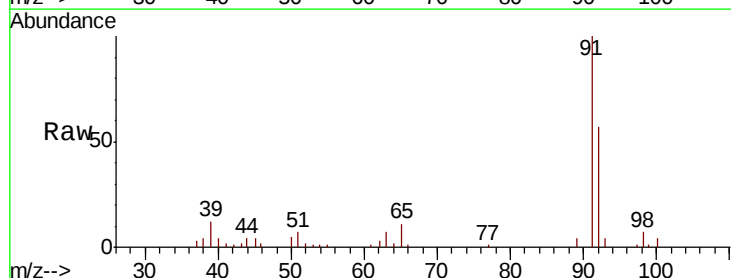
Acq: 14 Nov 2018 12:48

Tgt Ion: 92 Resp: 52777

Ion Ratio Lower Upper

92 100

91 176.6 131.9 197.9



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

40000

30000

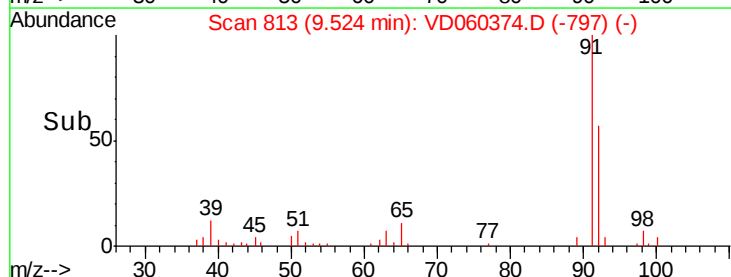
20000

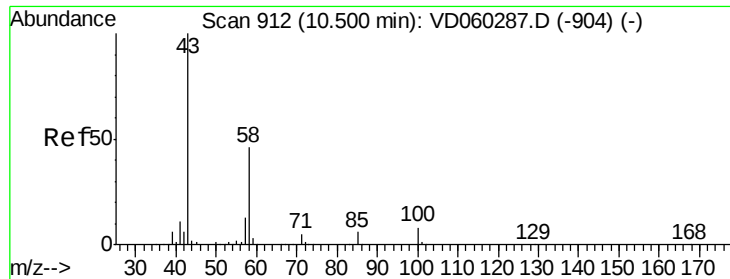
10000

0

9.45 9.50 9.55 9.60

Time-->





#59

2-Hexanone

Concen: 1.947 ug/l

RT: 10.42 min Scan# 904

Delta R.T. -0.08 min

Lab File: VD060374.D

Acq: 14 Nov 2018 12:48

Instrument :

MSVOA_D

ClientSampleId :

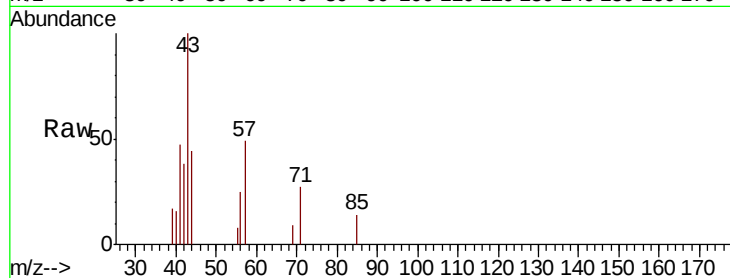
OR-01-111218-A

Tot Ion: 43 Resp: 10601

Ion Ratio Lower Upper

43 100

58 0.0 22.9 68.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.42

4000

3000

2000

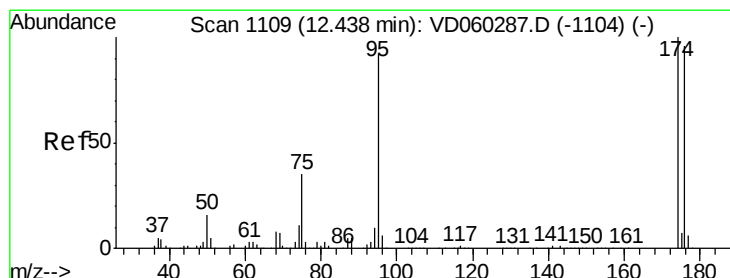
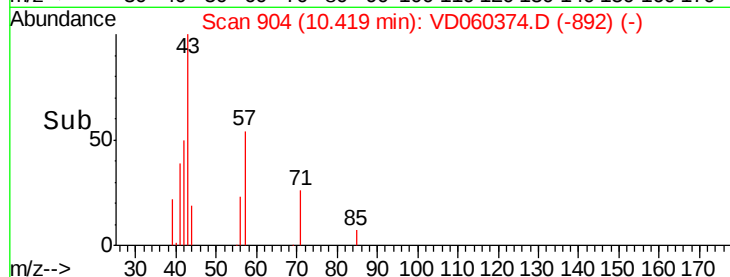
1000

0

10.40

10.50

Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.42 min Scan# 1107

Delta R.T. -0.02 min

Lab File: VD060374.D

Acq: 14 Nov 2018 12:48

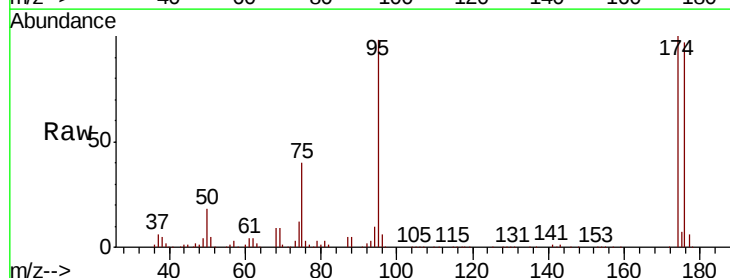
Tgt Ion: 95 Resp: 508171

Ion Ratio Lower Upper

95 100

174 101.7 0.0 160.8

176 98.4 0.0 154.6



Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

500000

400000

300000

200000

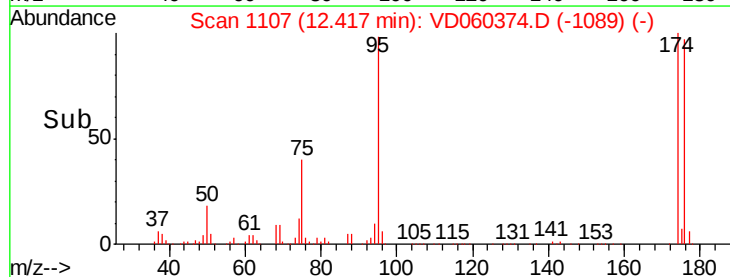
100000

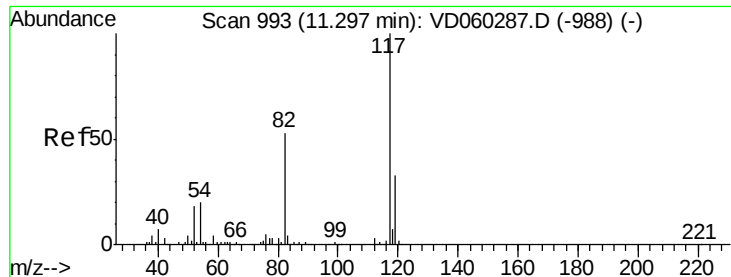
0

12.40

12.50

Time-->

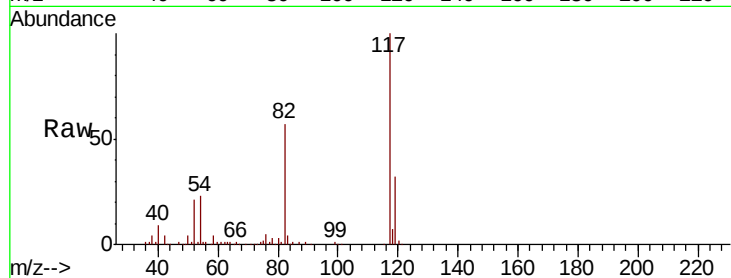




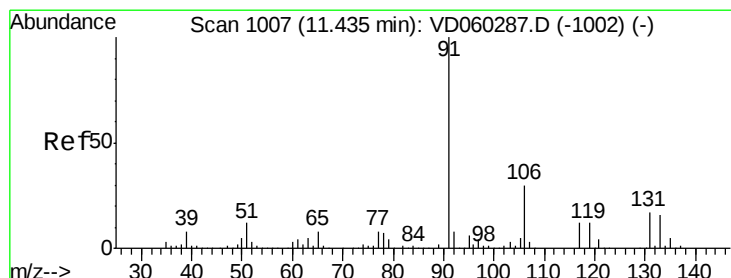
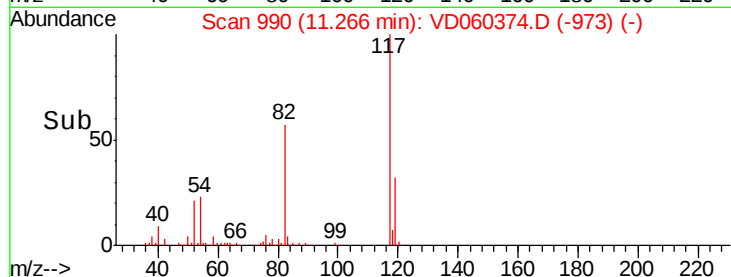
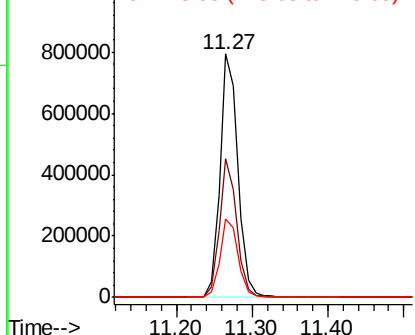
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.27 min Scan# 990
Delta R.T. -0.03 min
Lab File: VD060374.D
Acq: 14 Nov 2018 12:48

Instrument :
MSVOA_D
ClientSampleId :
OR-01-111218-A

Tot Ion:117 Resp: 1310412
Ion Ratio Lower Upper
117 100
82 56.9 43.7 65.5
119 32.1 26.1 39.1

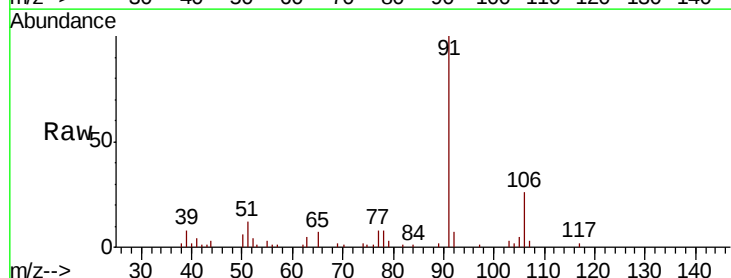


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

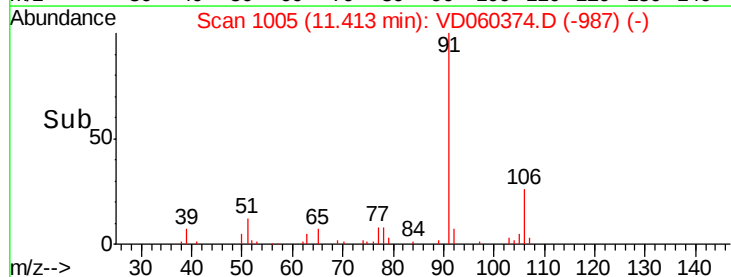
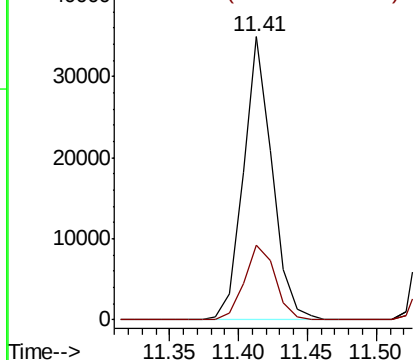


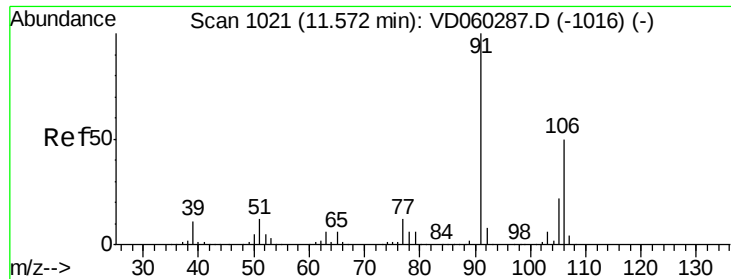
#67
Ethyl Benzene
Concen: 1.042 ug/l
RT: 11.41 min Scan# 1005
Delta R.T. -0.02 min
Lab File: VD060374.D
Acq: 14 Nov 2018 12:48

Tgt Ion: 91 Resp: 50616
Ion Ratio Lower Upper
91 100
106 26.4 24.6 36.8



Abundance Ion 91.00 (90.70 to 91.70): V
Ion 106.05 (105.75 to 106.75): V

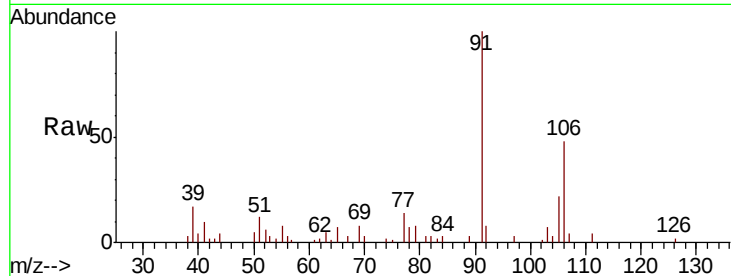




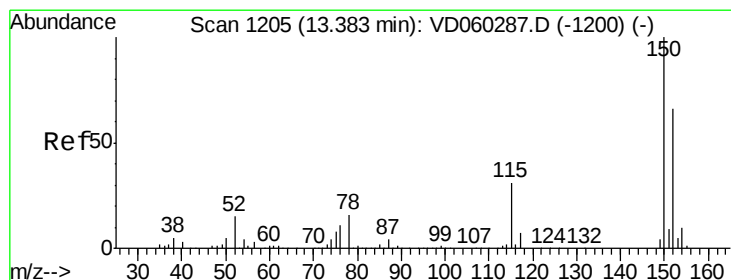
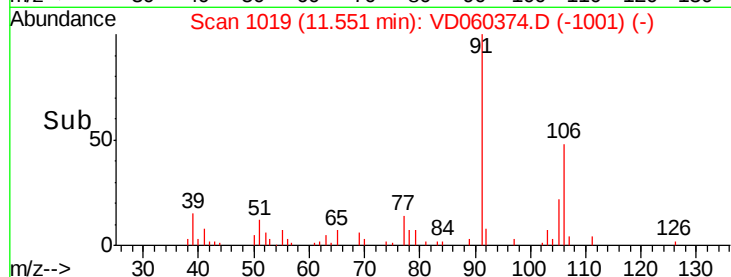
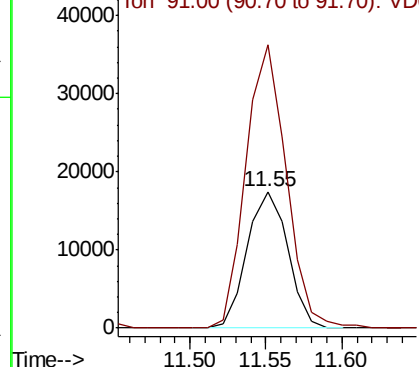
#68
m/p-Xvlenes
Concen: 1.824 ug/l
RT: 11.55 min Scan# 1019
Delta R.T. -0.02 min
Lab File: VD060374.D
Acq: 14 Nov 2018 12:48

Instrument :
MSVOA_D
ClientSampleId :
OR-01-111218-A

Tot Ion:106 Resp: 32684
Ion Ratio Lower Upper
106 100
91 206.9 159.4 239.2

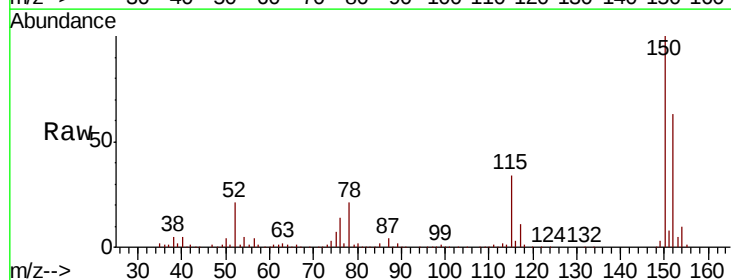


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

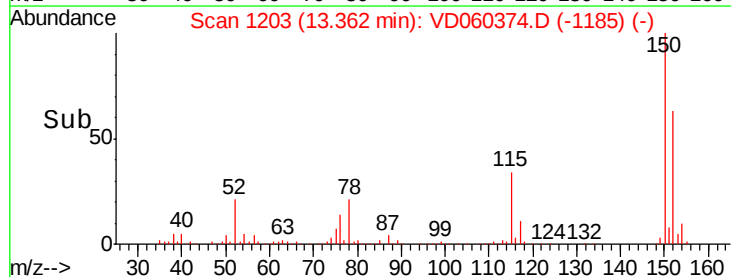
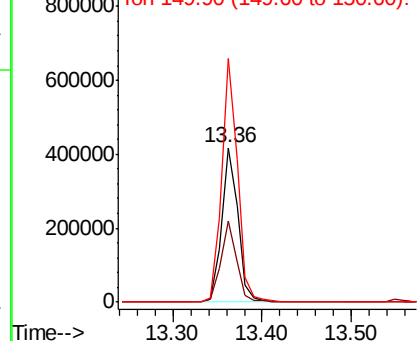


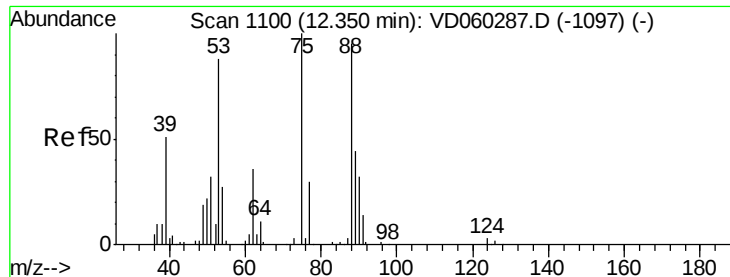
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.36 min Scan# 1203
Delta R.T. -0.02 min
Lab File: VD060374.D
Acq: 14 Nov 2018 12:48

Tgt Ion:152 Resp: 529767
Ion Ratio Lower Upper
152 100
115 52.9 24.1 72.3
150 157.7 0.0 310.6



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 115.675 ug/l

RT: 12.42 min Scan# 1107

Delta R.T. 0.07 min

Lab File: VD060374.D

Acq: 14 Nov 2018 12:48

Instrument :

MSVOA_D

ClientSampleId :

OR-01-111218-A

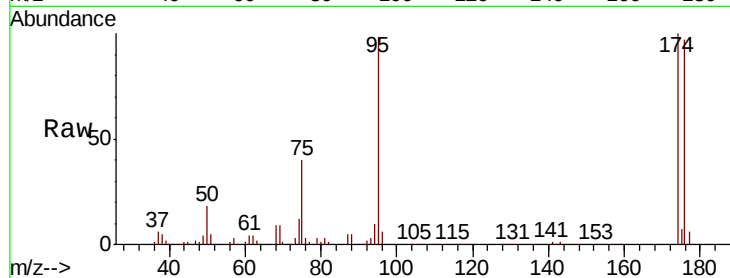
Tot Ion: 75 Resp: 208702

Ion Ratio Lower Upper

75 100

53 0.0 68.6 103.0#

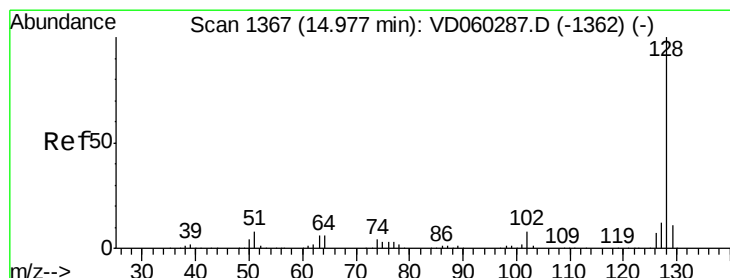
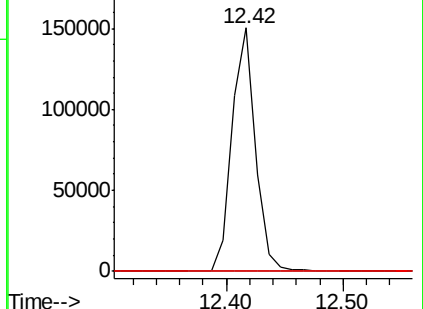
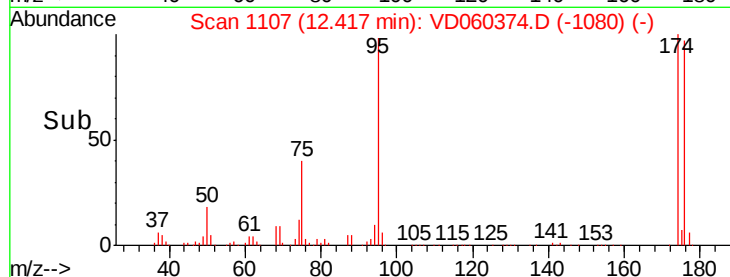
89 0.0 34.1 51.1#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



#95

Naphthalene

Concen: 11.383 ug/l

RT: 14.96 min Scan# 1365

Delta R.T. -0.02 min

Lab File: VD060374.D

Acq: 14 Nov 2018 12:48

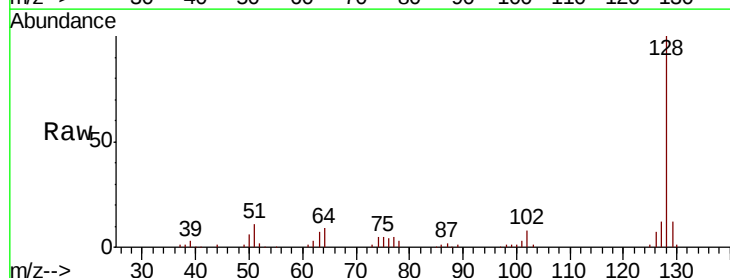
Tgt Ion: 128 Resp: 165118

Ion Ratio Lower Upper

128 100

127 12.1 9.6 14.4

129 11.7 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

