

Data Path : \\74.0.250.170\TERASTORAGE\VOASRV\HPCHEM1\MSVOA_D\DATA\VD081318\
 Data File : VD059748.D
 Acq On : 13 Aug 2018 22:06
 Operator : VA/AP
 Sample : J4427-01RE
 Misc : 4.18g/5ml/MSVOA_D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 14 03:52:41 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D081018S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 11 05:42:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	213297	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.69	114	282757	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.69	117	193876	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.90	152	74305	50.00	ug/l	0.00

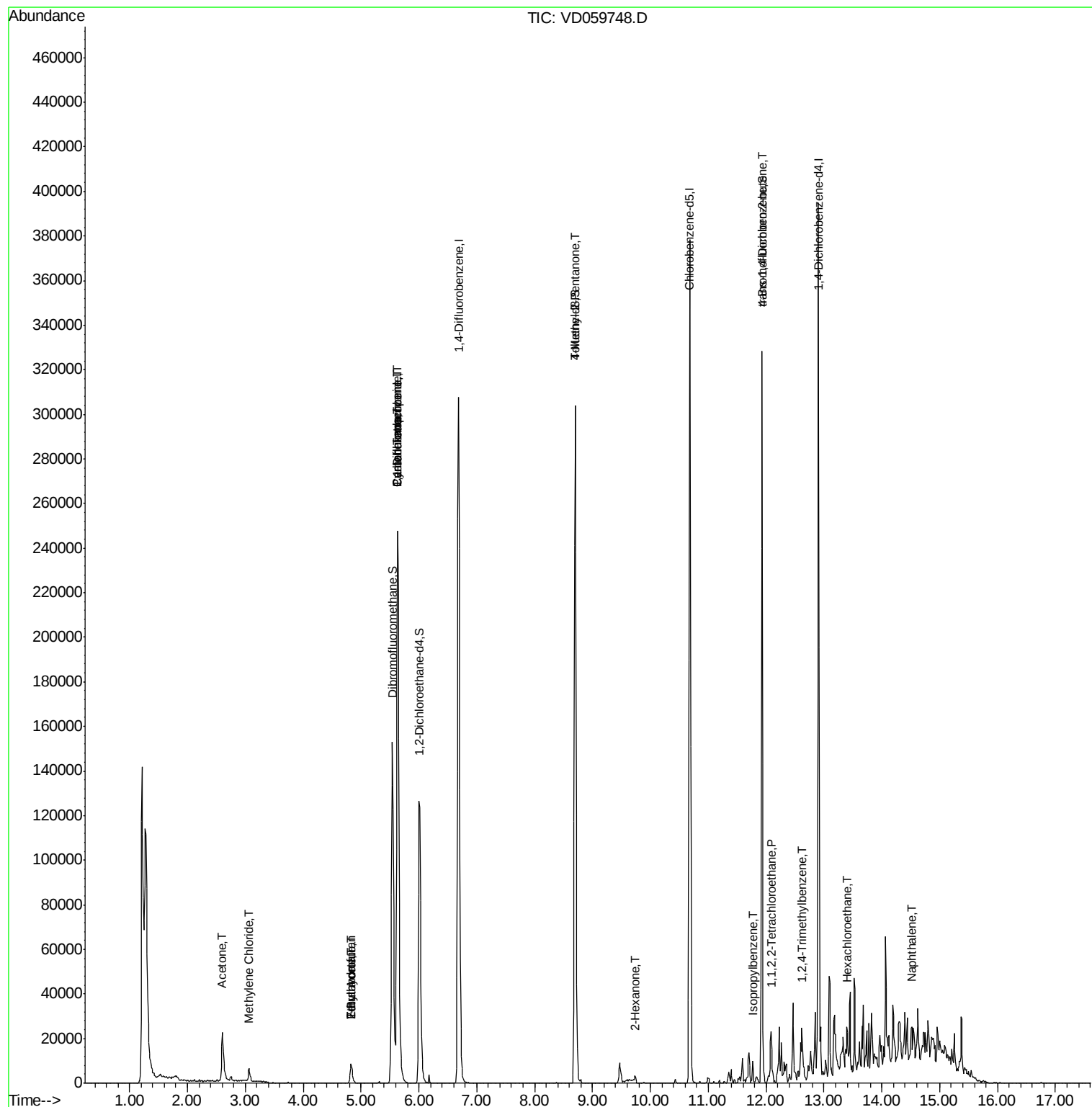
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.01	65	147444	44.16	ug/l	0.00
Spiked Amount			Recovery	=	88.32%	
35) Dibromofluoromethane	5.54	113	119202	40.94	ug/l	0.00
Spiked Amount			Recovery	=	81.88%	
50) Toluene-d8	8.70	98	228518	39.57	ug/l	0.00
Spiked Amount			Recovery	=	79.14%	
62) 4-Bromofluorobenzene	11.93	95	86472	29.85	ug/l	0.00
Spiked Amount			Recovery	=	59.70%	

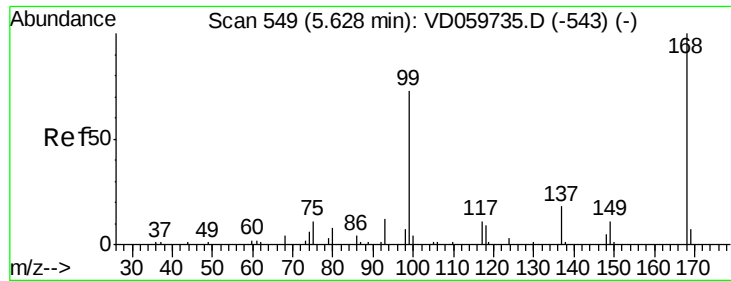
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	2.60	43	42045	77.091	ug/l	96
20) Methylene Chloride	3.06	84	2552	1.621	ug/l #	82
25) 2-Butanone	4.83	43	10084	17.202	ug/l	100
29) Tetrahydrofuran	4.83	42	534	2.436	ug/l #	1
31) Cyclohexane	5.63	56	5717	2.657	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	20034	6.104	ug/l #	50
37) Ethyl Acetate	4.83	43	10084	6.986	ug/l #	77
38) Carbon Tetrachloride	5.63	117	22239	4.307	ug/l #	15
51) 4-Methyl-2-Pentanone	8.70	43	1596	1.139	ug/l #	1
59) 2-Hexanone	9.73	43	1508	1.438	ug/l #	36
73) Isopropylbenzene	11.77	105	5098	1.010	ug/l	92
75) 1,1,2,2-Tetrachloroethane	12.09	83	1029	1.117	ug/l #	24
81) trans-1,4-Dichloro-2-buten	11.93	75	44859	181.193	ug/l #	1
84) 1,2,4-Trimethylbenzene	12.62	105	8467	1.876	ug/l	90
90) Hexachloroethane	13.39	117	1383	1.170	ug/l #	7
95) Naphthalene	14.52	128	8973	3.310	ug/l	98

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

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Operator : VA/AP
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Misc : 4.18g/5ml/MSVOA_D/SOIL
ALS Vial : 12 Sample Multiplier: 1

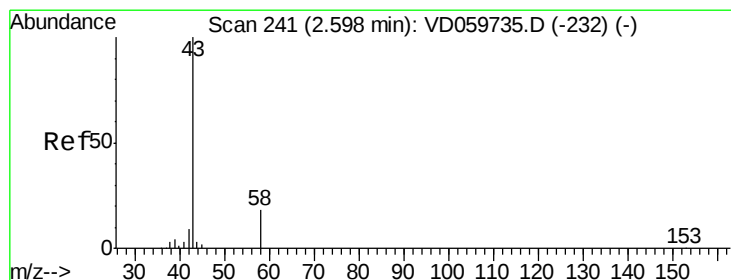
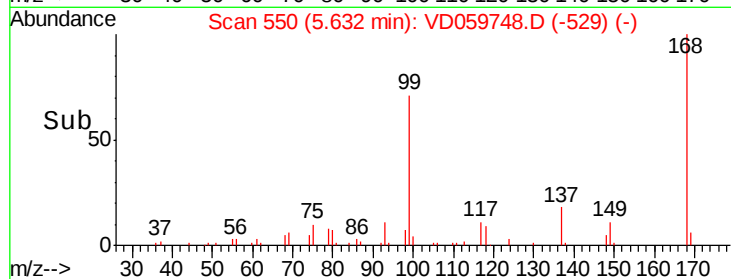
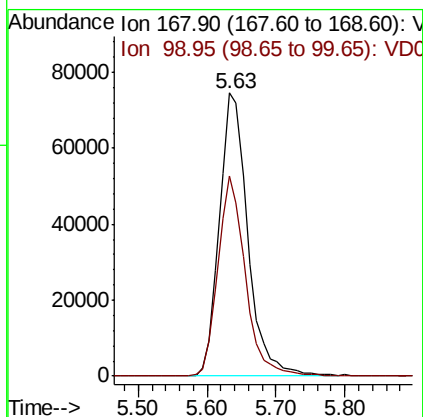
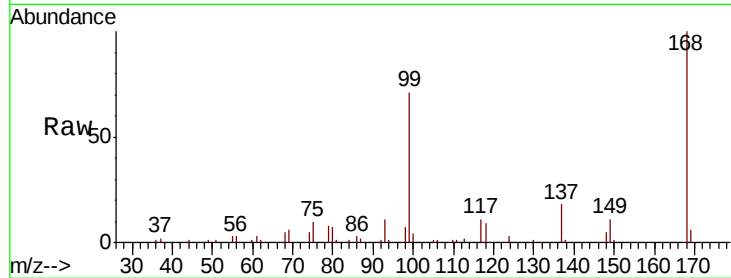
Quant Time: Aug 14 03:52:41 2018
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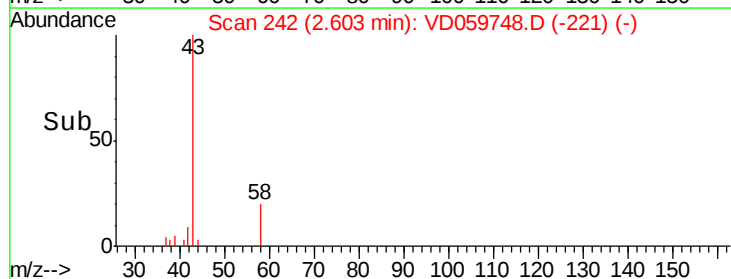
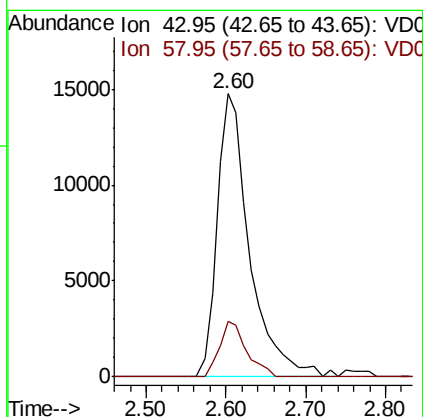
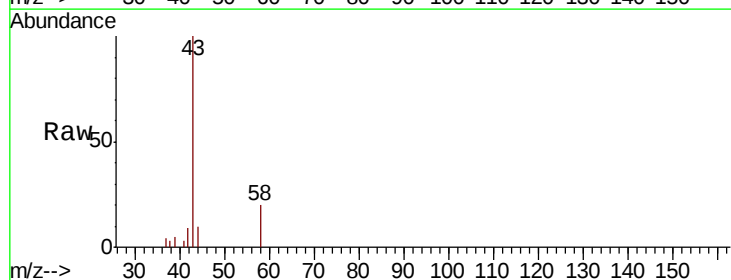
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.63 min Scan# 550
Delta R.T. 0.00 min
Lab File: VD059748.D
Acq: 13 Aug 2018 22:06

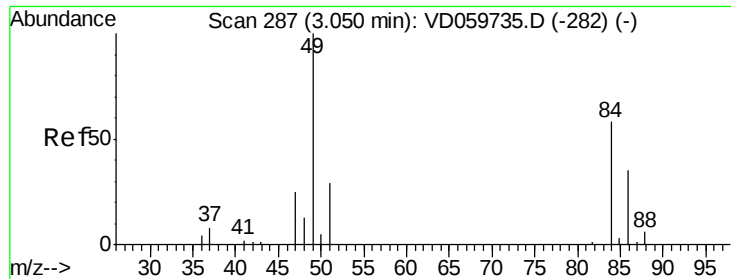
Tgt Ion: 168 Resp: 213297
Ion Ratio Lower Upper
168 100
99 70.5 61.4 92.2



#16
Acetone
Concen: 77.091 ug/l
RT: 2.60 min Scan# 242
Delta R.T. 0.00 min
Lab File: VD059748.D
Acq: 13 Aug 2018 22:06

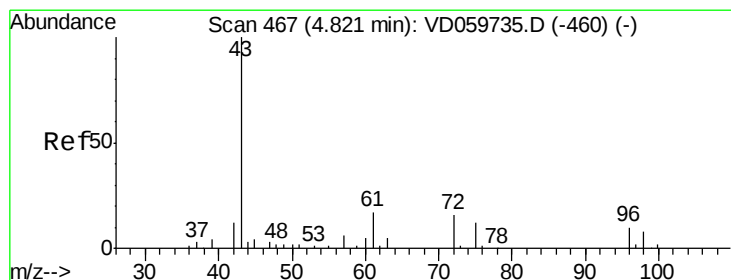
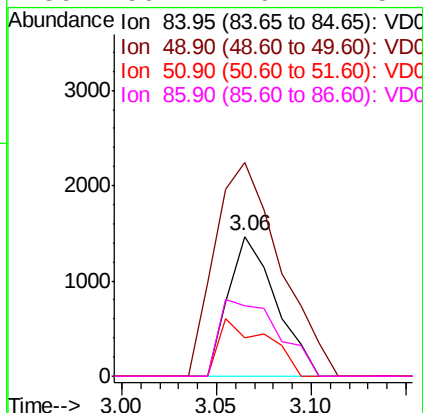
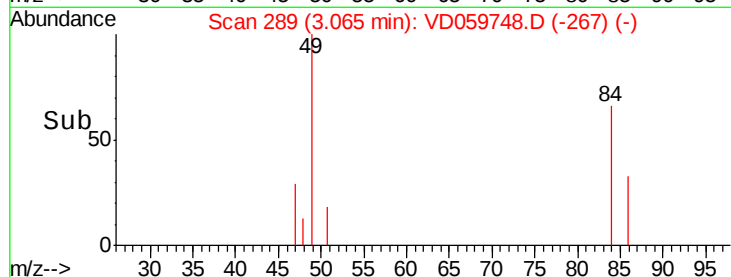
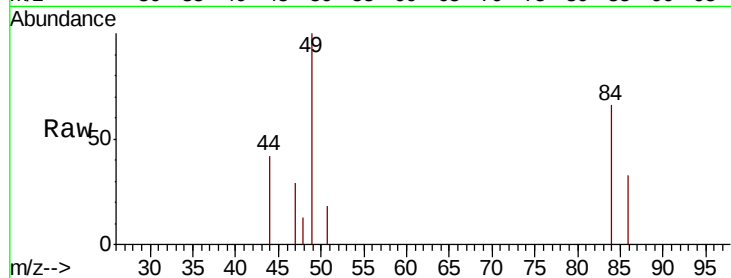
Tgt Ion: 43 Resp: 42045
Ion Ratio Lower Upper
43 100
58 19.8 14.6 21.8





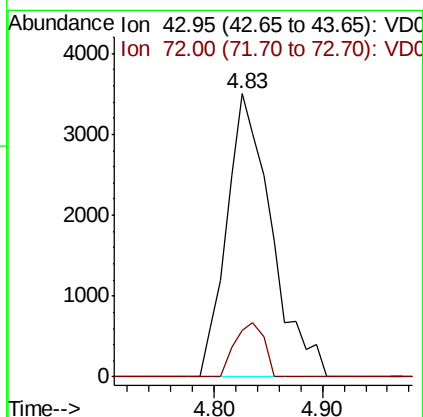
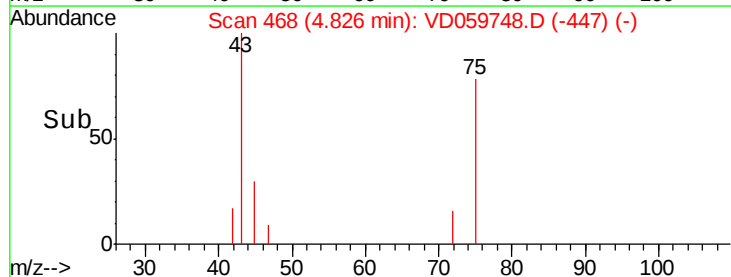
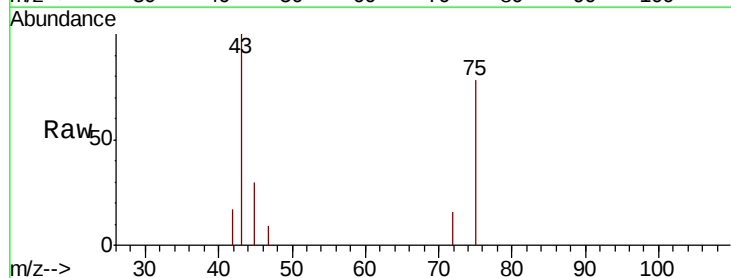
#20
Methylene Chloride
Concen: 1.621 ug/l
RT: 3.06 min Scan# 289
Delta R.T. 0.01 min
Lab File: VD059748.D
Acq: 13 Aug 2018 22:06

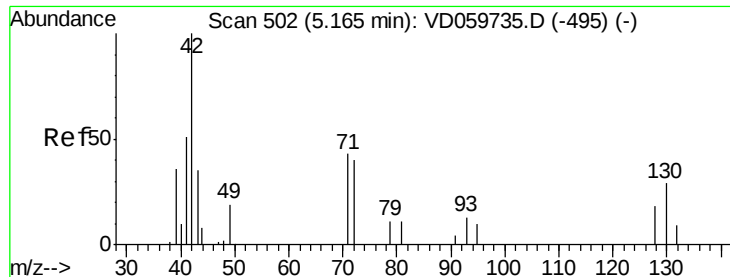
Tgt Ion: 84 Resp: 2552
Ion Ratio Lower Upper
84 100
49 152.7 138.9 208.3
51 27.7 40.2 60.2#
86 50.2 49.1 73.7



#25
2-Butanone
Concen: 17.202 ug/l
RT: 4.83 min Scan# 468
Delta R.T. 0.00 min
Lab File: VD059748.D
Acq: 13 Aug 2018 22:06

Tgt Ion: 43 Resp: 10084
Ion Ratio Lower Upper
43 100
72 16.4 13.1 19.7





#29

Tetrahydrofuran

Concen: 2.436 ug/l

RT: 4.83 min Scan# 468

Delta R.T. -0.34 min

Lab File: VD059748.D

Acq: 13 Aug 2018 22:06

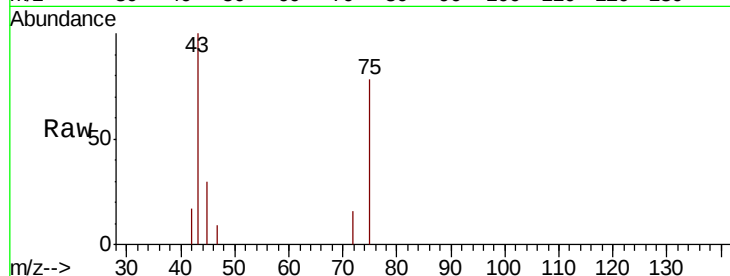
Tgt Ion: 42 Resp: 534

Ion Ratio Lower Upper

42 100

72 232.8 35.3 52.9#

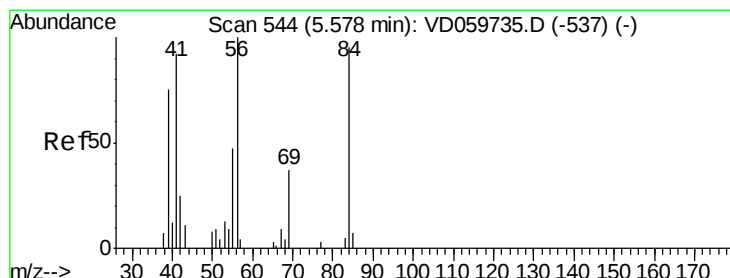
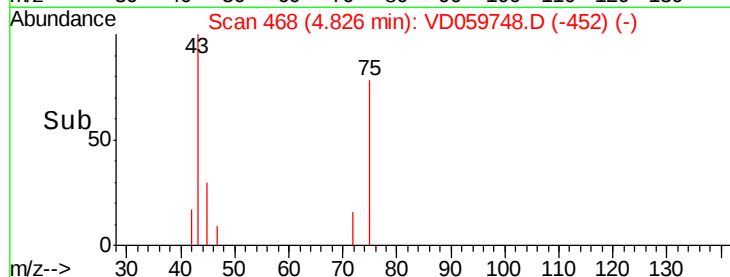
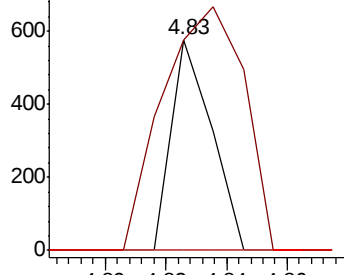
71 0.0 37.1 55.7#



Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC



#31

Cyclohexane

Concen: 2.657 ug/l

RT: 5.63 min Scan# 550

Delta R.T. 0.05 min

Lab File: VD059748.D

Acq: 13 Aug 2018 22:06

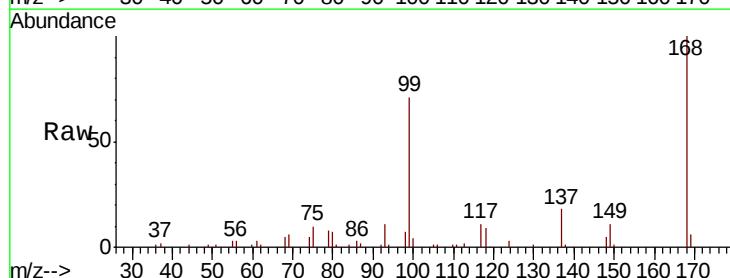
Tgt Ion: 56 Resp: 5717

Ion Ratio Lower Upper

56 100

69 224.0 29.3 43.9#

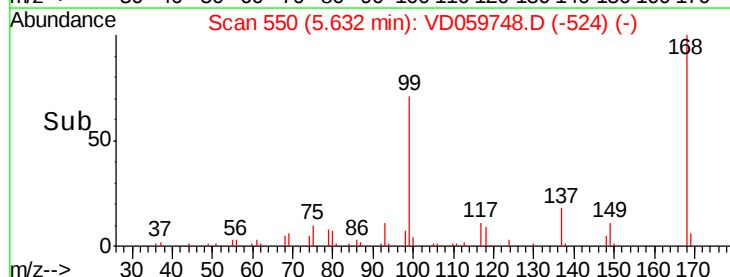
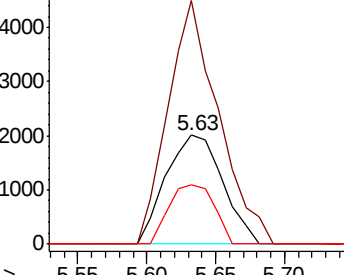
84 55.0 76.2 114.2#

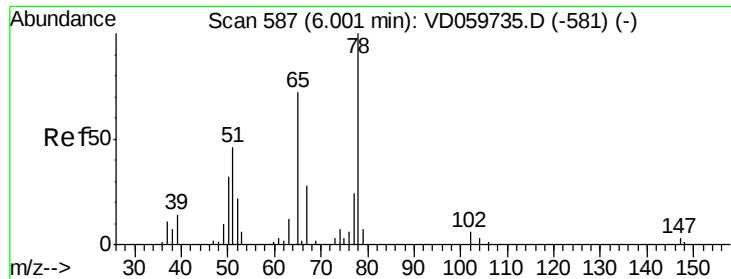


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

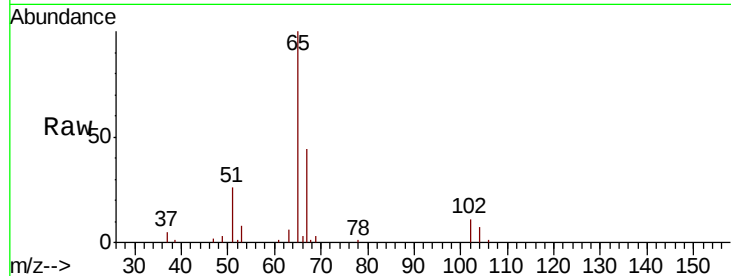
Ion 84.05 (83.75 to 84.75): VDC



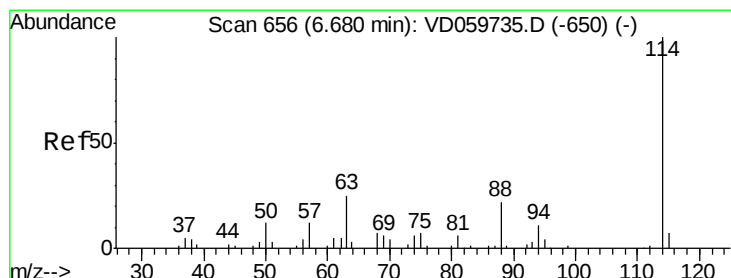
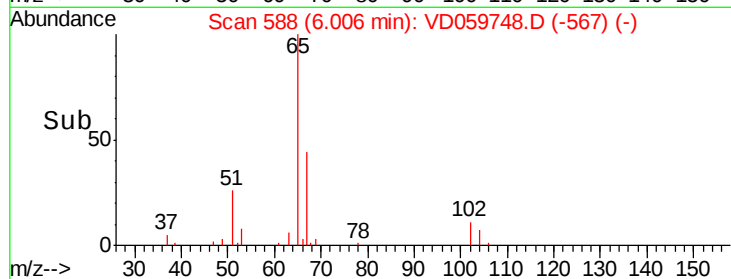
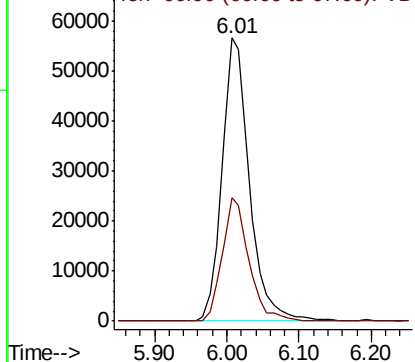


#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.01 min Scan# 588
 Delta R.T. 0.00 min
 Lab File: VD059748.D
 Acq: 13 Aug 2018 22:06

Tgt Ion: 65 Resp: 147444
 Ion Ratio Lower Upper
 65 100
 67 43.7 0.0 77.4

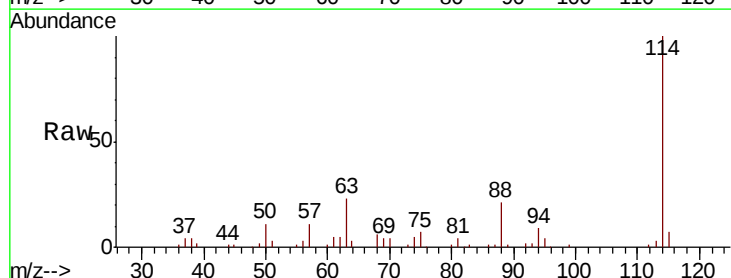


Abundance Ion 64.95 (64.65 to 65.65): VDC
 Ion 66.90 (66.60 to 67.60): VDC

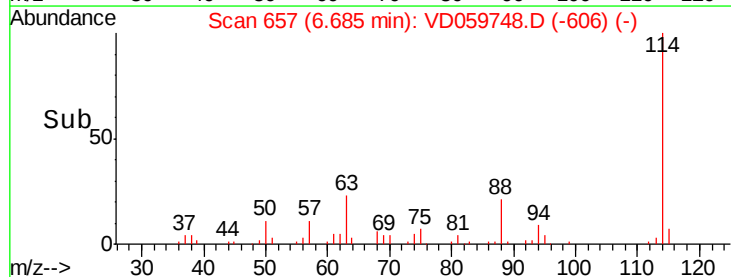
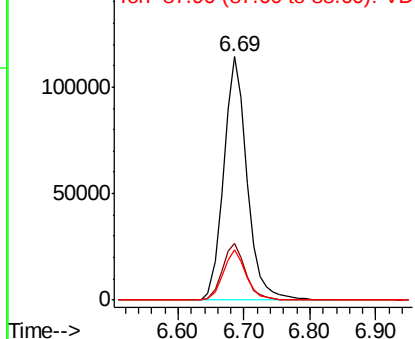


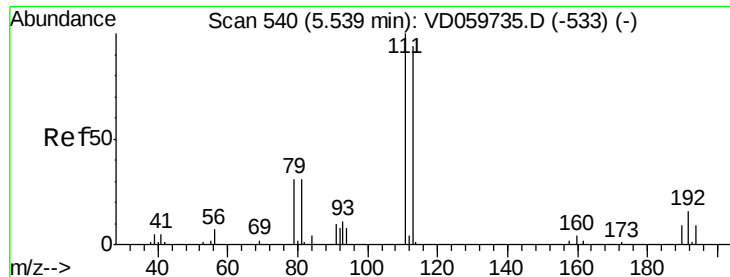
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.69 min Scan# 657
 Delta R.T. 0.00 min
 Lab File: VD059748.D
 Acq: 13 Aug 2018 22:06

Tgt Ion: 114 Resp: 282757
 Ion Ratio Lower Upper
 114 100
 63 23.4 0.0 50.6
 88 20.6 0.0 43.4



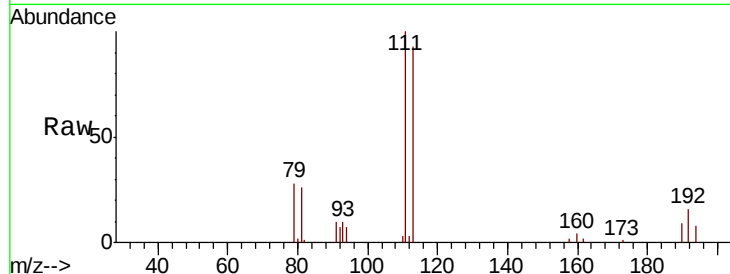
Abundance Ion 114.00 (113.70 to 114.70): VDC
 Ion 62.95 (62.65 to 63.65): VDC
 Ion 87.90 (87.60 to 88.60): VDC





#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 5.54 min Scan# 541
 Delta R.T. 0.00 min
 Lab File: VD059748.D
 Acq: 13 Aug 2018 22:06

Tgt Ion	Ratio	Lower	Upper
113	100		
111	107.6	85.3	127.9
192	17.5	13.9	20.9

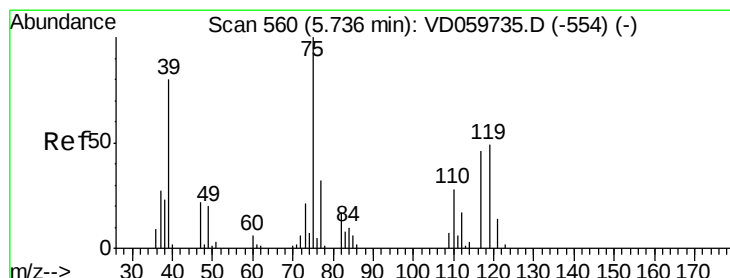
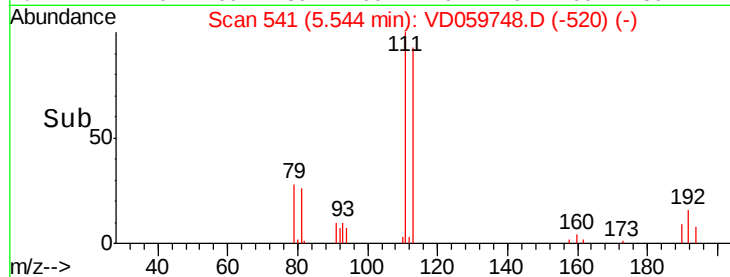
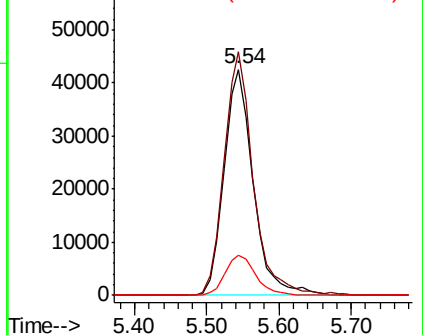


Abundance

Ion 112.90 (112.60 to 113.60): V

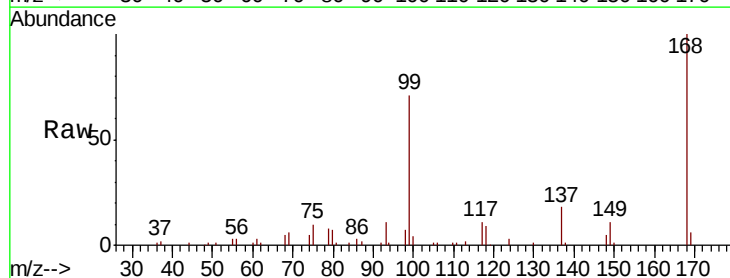
Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36
 1,1-Dichloropropene
 Concen: 6.104 ug/l
 RT: 5.63 min Scan# 550
 Delta R.T. -0.10 min
 Lab File: VD059748.D
 Acq: 13 Aug 2018 22:06

Tgt Ion	Ratio	Lower	Upper
75	100		
110	5.8	13.7	41.0#
77	0.0	25.4	38.2#

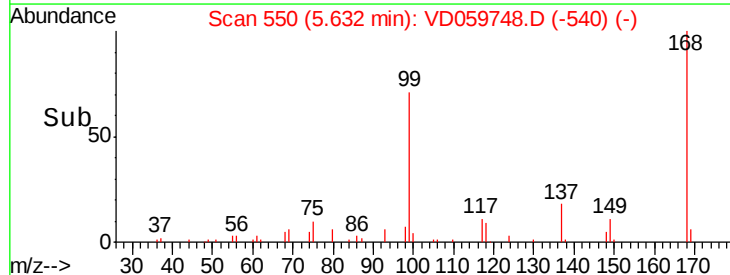
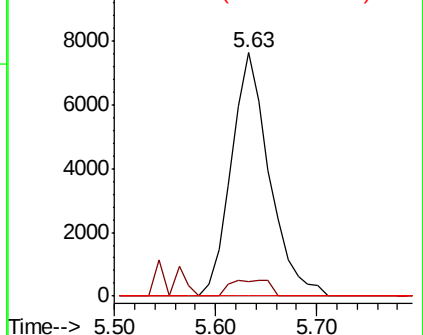


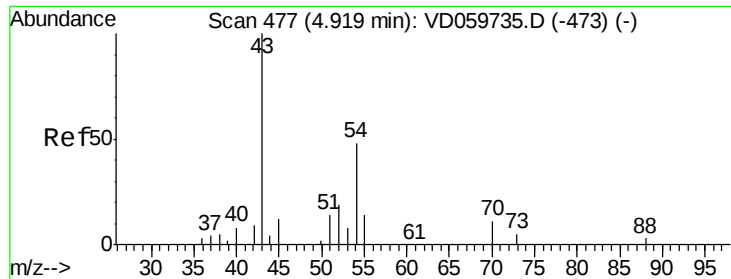
Abundance

Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





#37

Ethyl Acetate

Concen: 6.986 ug/l

RT: 4.83 min Scan# 468

Delta R.T. -0.09 min

Lab File: VD059748.D

Acq: 13 Aug 2018 22:06

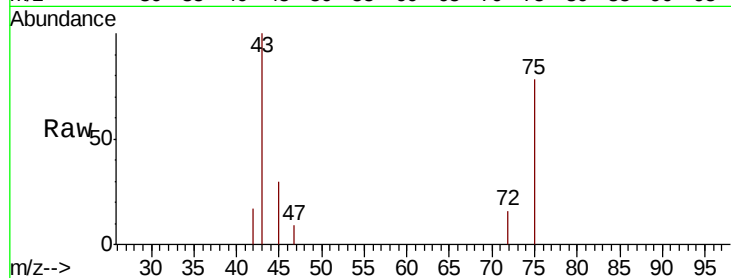
Tgt Ion: 43 Resp: 10084

Ion Ratio Lower Upper

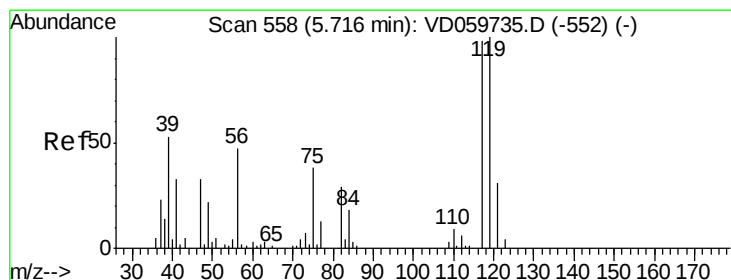
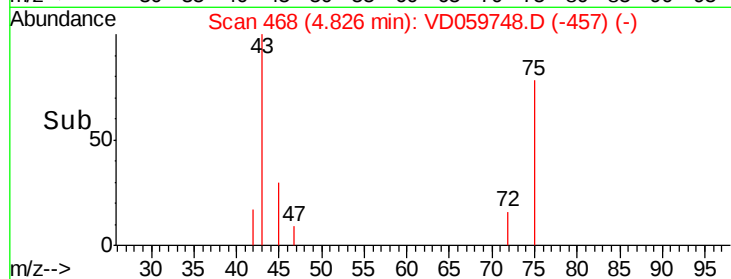
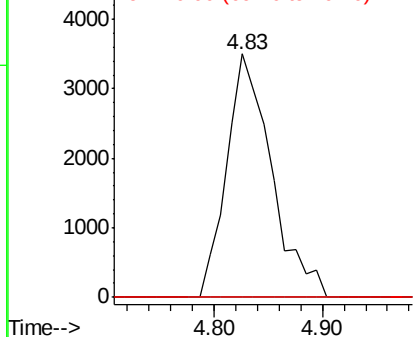
43 100

61 0.0 7.4 11.0#

70 0.0 5.8 8.8#



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: 4.307 ug/l

RT: 5.63 min Scan# 550

Delta R.T. -0.08 min

Lab File: VD059748.D

Acq: 13 Aug 2018 22:06

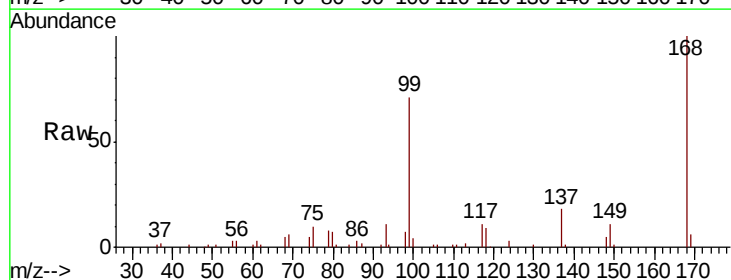
Tgt Ion: 117 Resp: 22239

Ion Ratio Lower Upper

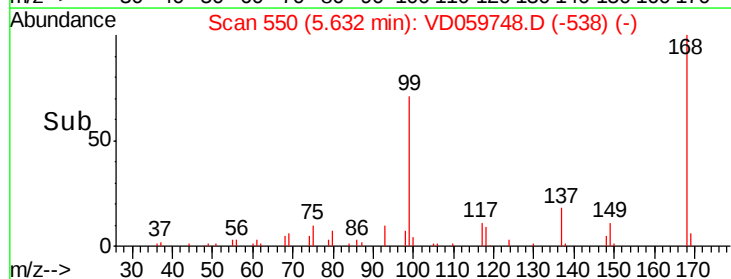
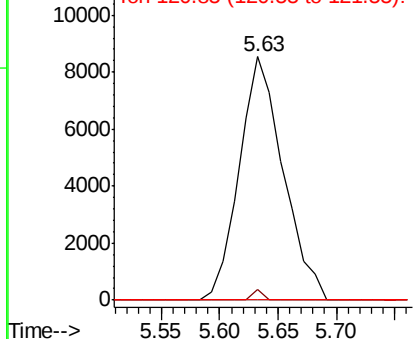
117 100

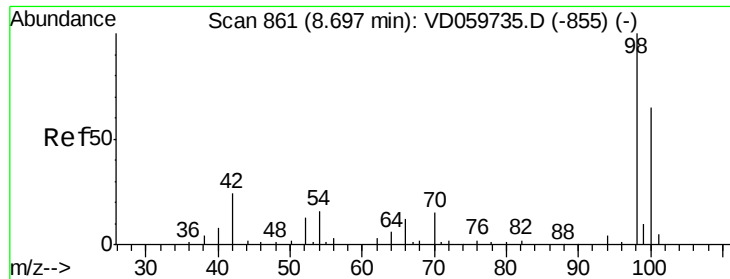
119 4.3 78.2 117.2#

121 0.0 23.9 35.9#



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





#50

Toluene-d8

Concen: N.D. ug/l

RT: 8.70 min Scan# 862

Delta R.T. 0.00 min

Lab File: VD059748.D

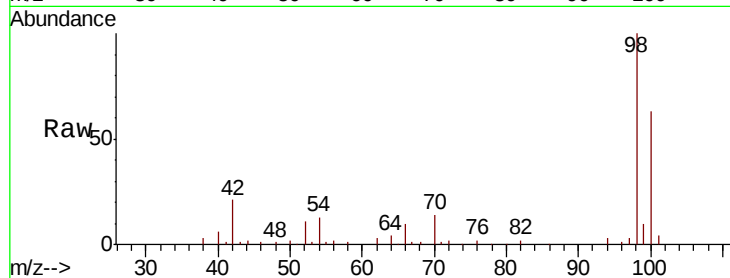
Acq: 13 Aug 2018 22:06

Tgt Ion: 98 Resp: 228518

Ion Ratio Lower Upper

98 100

100 63.5 52.2 78.2



Abundance Ion 98.05 (97.75 to 98.75): VD059735.D (-855) (-)

Ion 100.05 (99.75 to 100.75): VD059735.D (-855) (-)

8.70

100000

80000

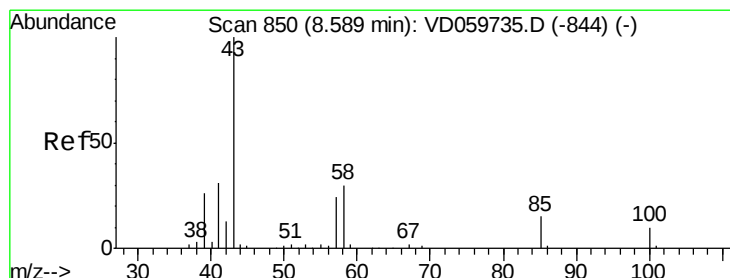
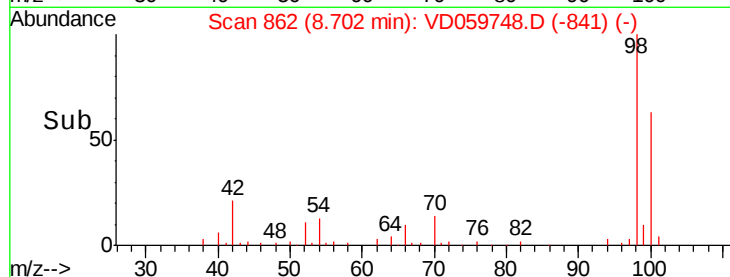
60000

40000

20000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.139 ug/l

RT: 8.70 min Scan# 862

Delta R.T. 0.11 min

Lab File: VD059748.D

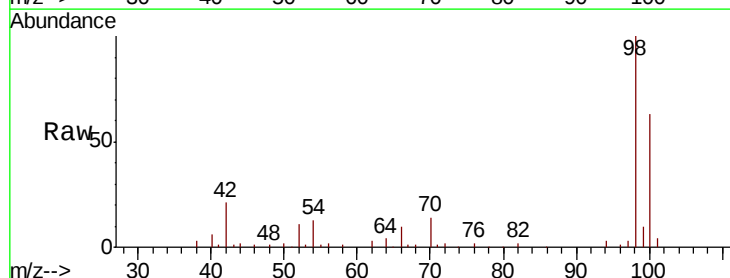
Acq: 13 Aug 2018 22:06

Tgt Ion: 43 Resp: 1596

Ion Ratio Lower Upper

43 100

58 126.6 24.3 36.5#



Abundance Ion 42.95 (42.65 to 43.65): VD059735.D (-844) (-)

Ion 57.95 (57.65 to 58.65): VD059735.D (-844) (-)

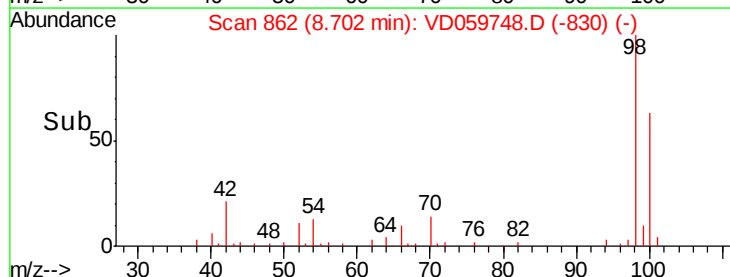
8.70

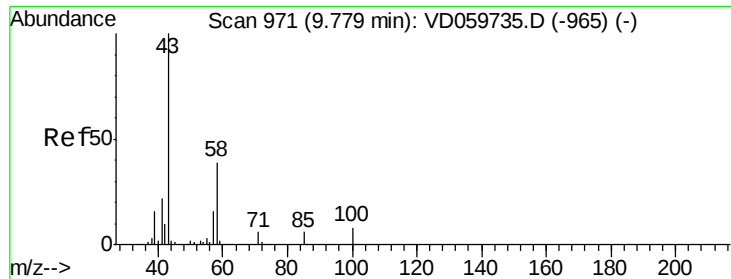
1000

500

0

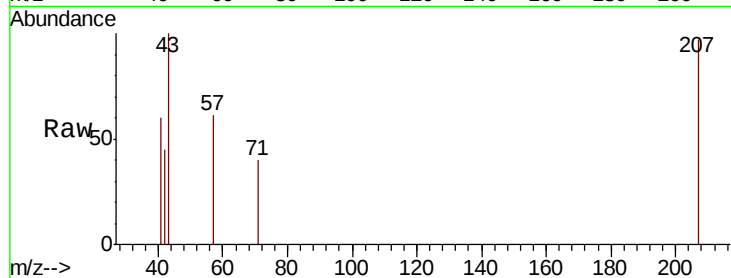
Time-->



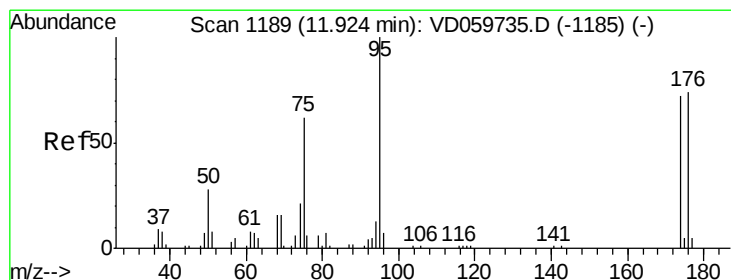
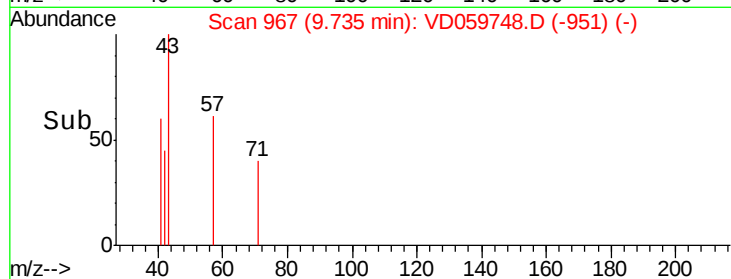
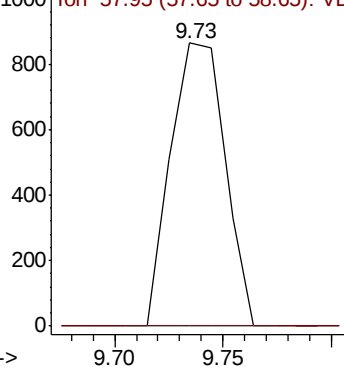


#59
2-Hexanone
Concen: 1.438 ug/l
RT: 9.73 min Scan# 967
Delta R.T. -0.04 min
Lab File: VD059748.D
Acq: 13 Aug 2018 22:06

Tgt Ion: 43 Resp: 1508
Ion Ratio Lower Upper
43 100
58 0.0 19.8 59.3#

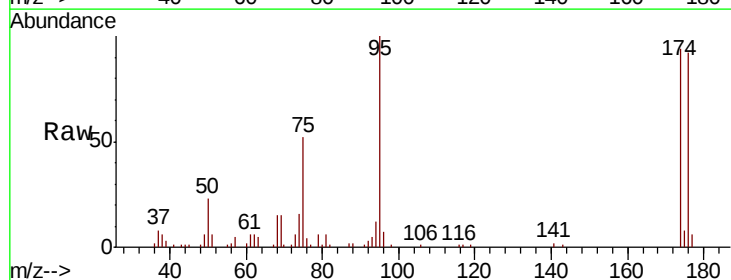


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

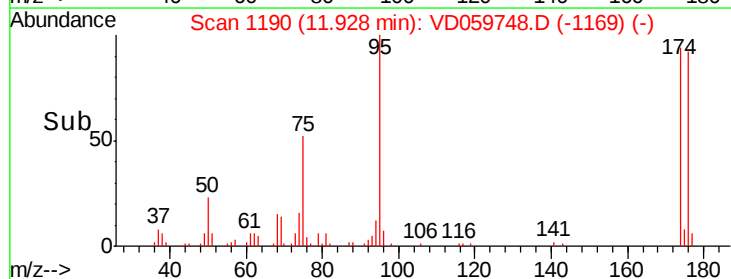
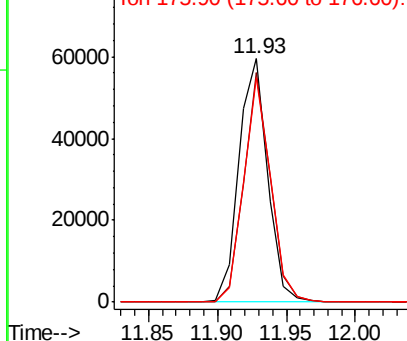


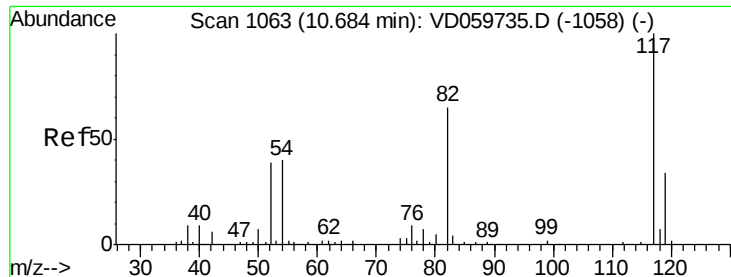
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 11.93 min Scan# 1190
Delta R.T. 0.00 min
Lab File: VD059748.D
Acq: 13 Aug 2018 22:06

Tgt Ion: 95 Resp: 86472
Ion Ratio Lower Upper
95 100
174 94.2 0.0 143.2
176 92.0 0.0 147.2



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





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.69 min Scan# 1064

Delta R.T. 0.00 min

Lab File: VD059748.D

Acq: 13 Aug 2018 22:06

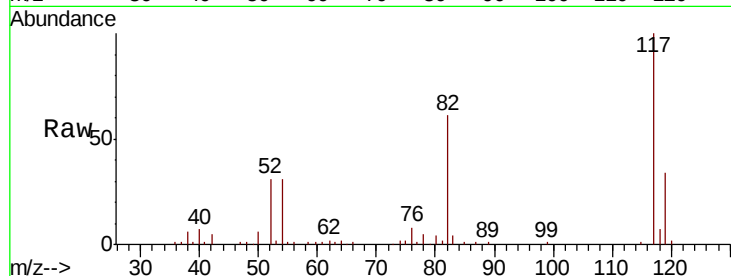
Tgt Ion:117 Resp: 193876

Ion Ratio Lower Upper

117 100

82 60.9 51.9 77.9

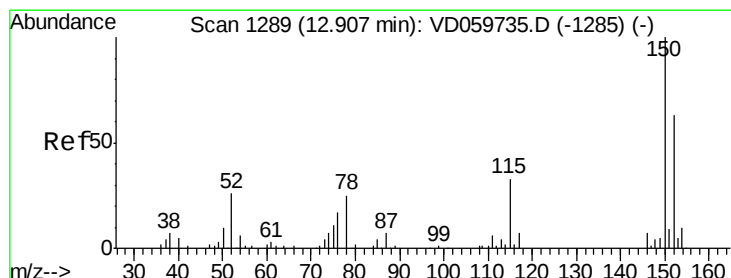
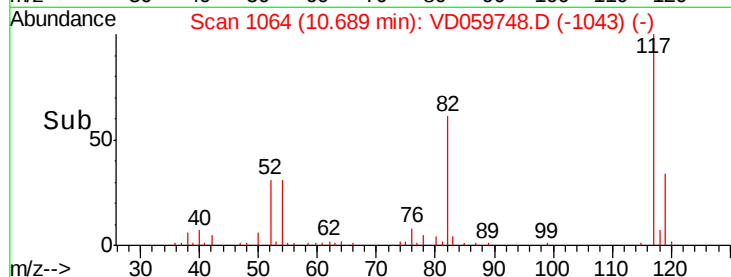
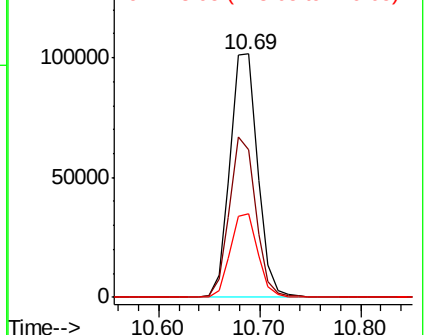
119 34.3 27.4 41.0



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.90 min Scan# 1289

Delta R.T. -0.00 min

Lab File: VD059748.D

Acq: 13 Aug 2018 22:06

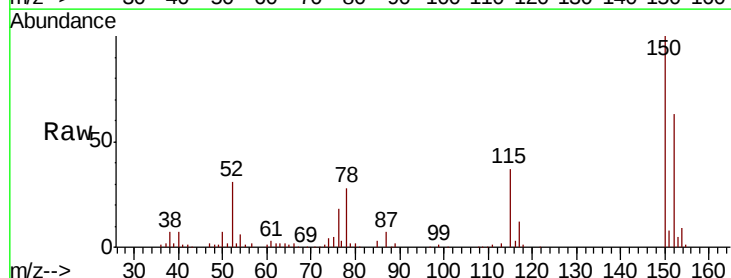
Tgt Ion:152 Resp: 74305

Ion Ratio Lower Upper

152 100

115 58.4 29.8 89.3

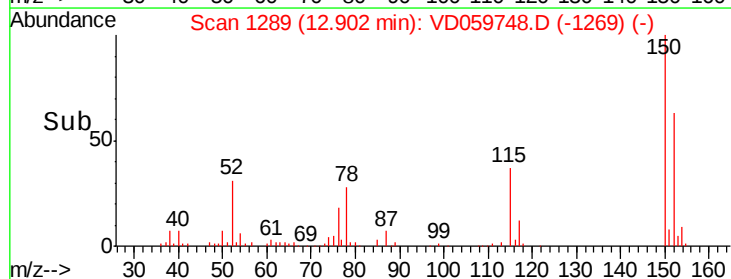
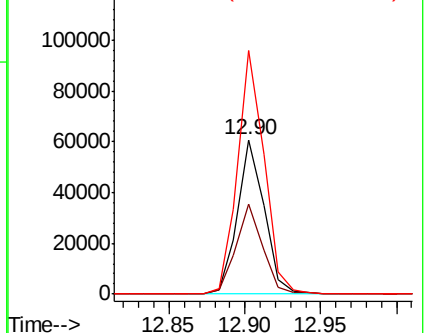
150 158.1 0.0 320.4

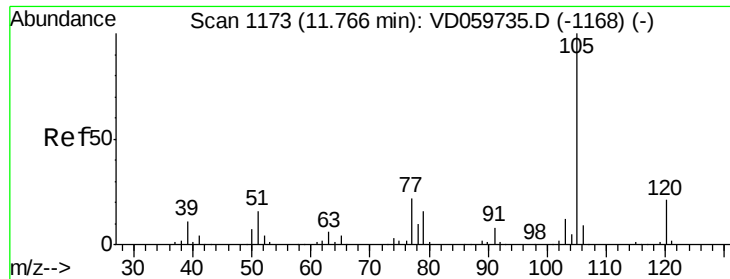


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 1.010 ug/l

RT: 11.77 min Scan# 1174

Delta R.T. 0.00 min

Lab File: VD059748.D

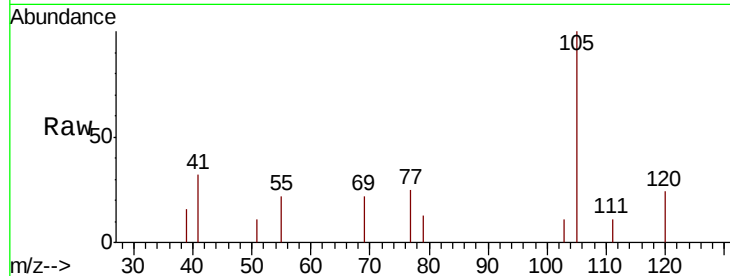
Acq: 13 Aug 2018 22:06

Tgt Ion: 105 Resp: 5098

Ion Ratio Lower Upper

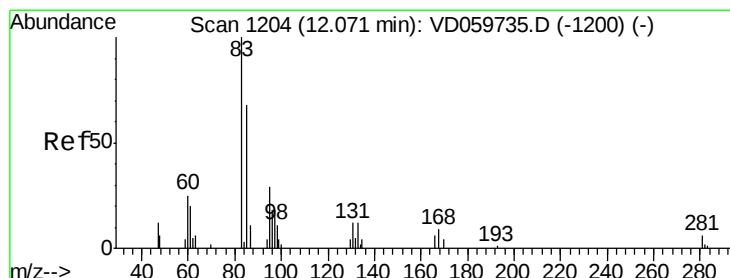
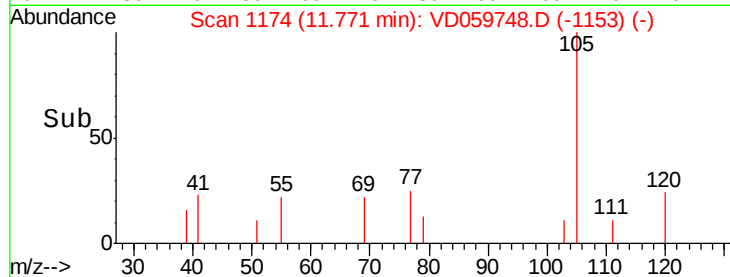
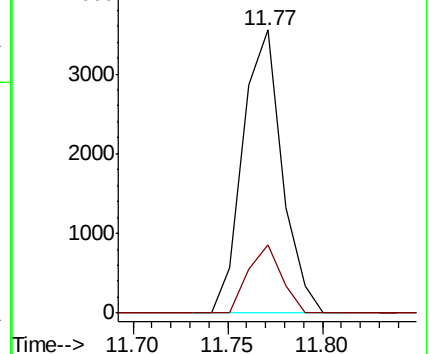
105 100

120 24.0 10.3 30.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#75

1,1,2,2-Tetrachloroethane

Concen: 1.117 ug/l

RT: 12.09 min Scan# 1206

Delta R.T. 0.01 min

Lab File: VD059748.D

Acq: 13 Aug 2018 22:06

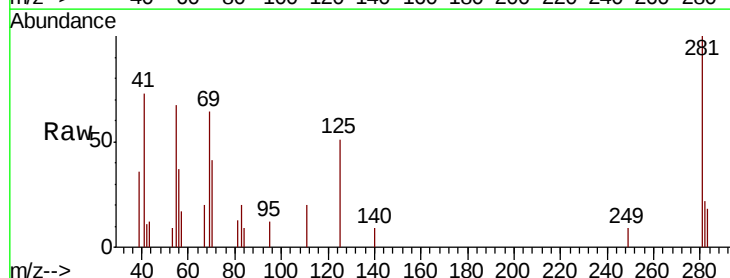
Tgt Ion: 83 Resp: 1029

Ion Ratio Lower Upper

83 100

131 0.0 6.3 19.1#

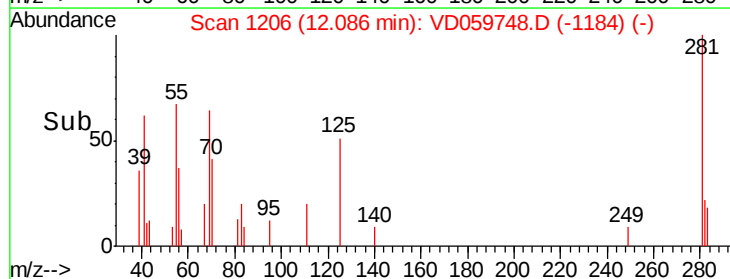
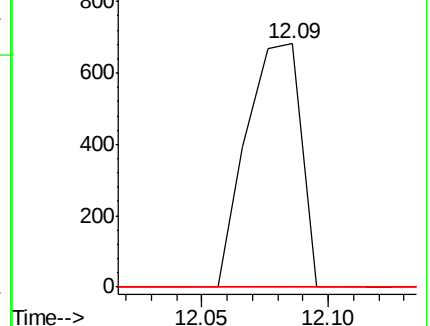
85 0.0 34.2 102.5#

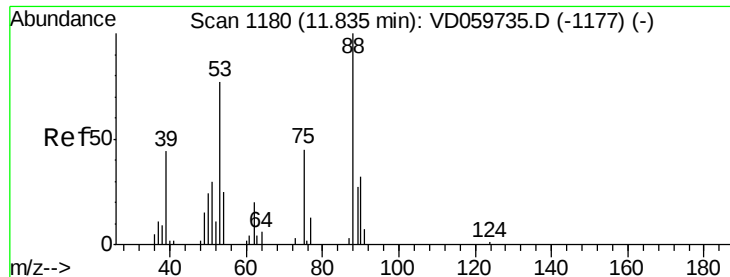


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 130.90 (130.60 to 131.60): V

Ion 84.95 (84.65 to 85.65): V





#81

trans-1,4-Dichloro-2-butene

Concen: 181.193 ug/l

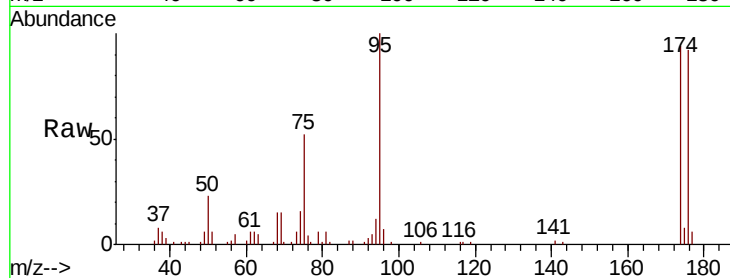
RT: 11.93 min Scan# 1190

Delta R.T. 0.09 min

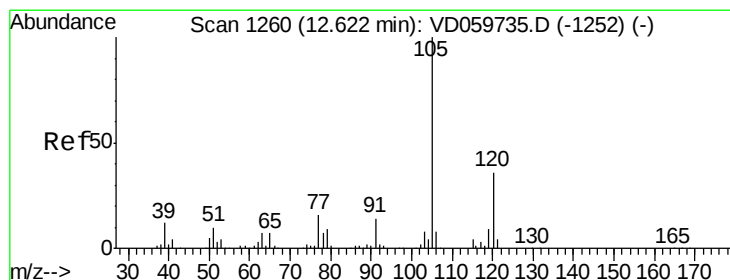
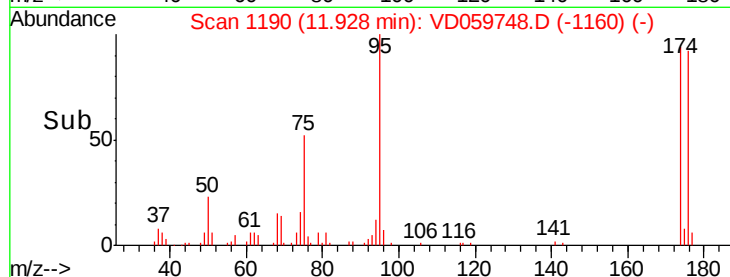
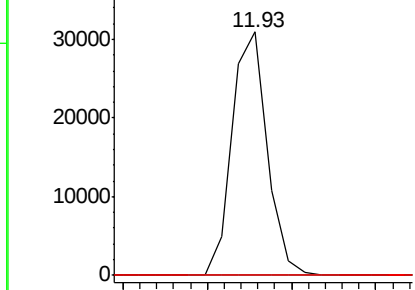
Lab File: VD059748.D

Acq: 13 Aug 2018 22:06

Tgt Ion:	75	Resp:	44859
Ion	Ratio	Lower	Upper
75	100		
53	0.0	137.5	206.3#
89	0.0	48.3	72.5#



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



#84

1,2,4-Trimethylbenzene

Concen: 1.876 ug/l

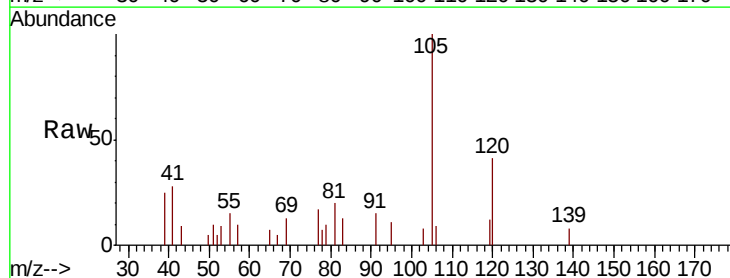
RT: 12.62 min Scan# 1260

Delta R.T. -0.00 min

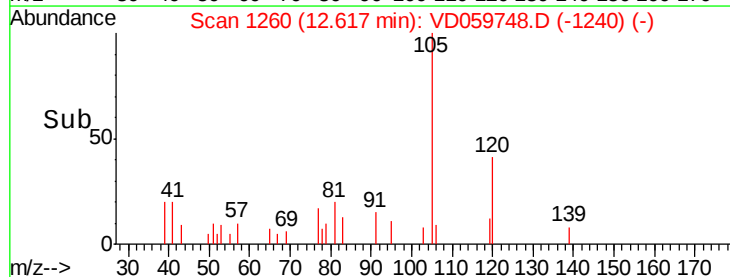
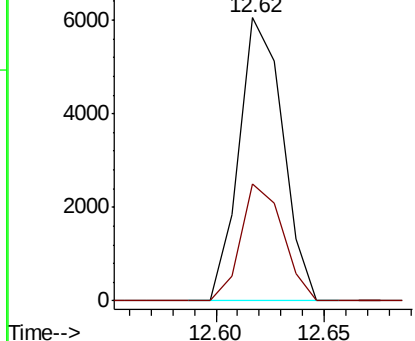
Lab File: VD059748.D

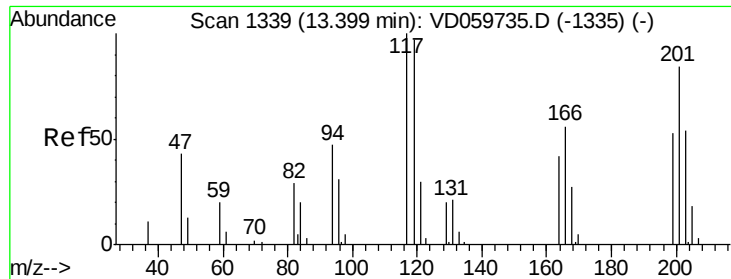
Acq: 13 Aug 2018 22:06

Tgt Ion:	105	Resp:	8467
Ion	Ratio	Lower	Upper
105	100		
120	41.5	17.9	53.7



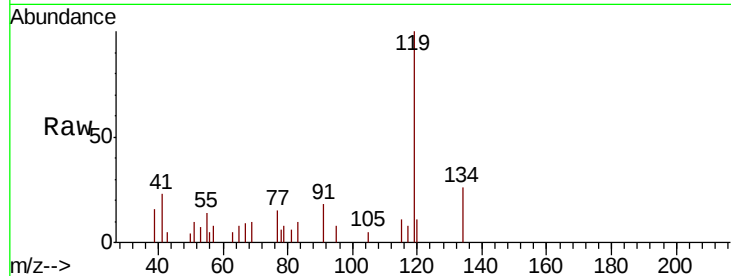
Abundance Ion 105.05 (104.75 to 105.75): V
Ion 120.05 (119.75 to 120.75): V



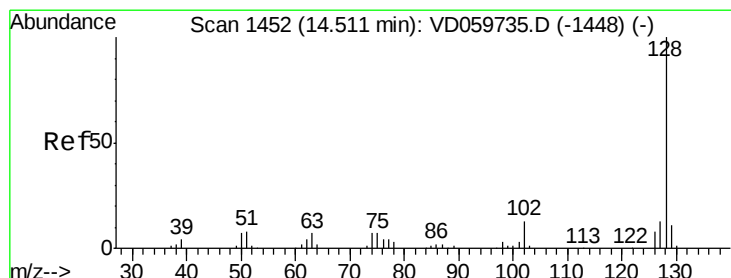
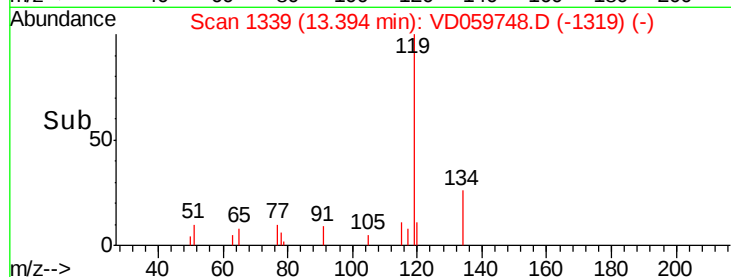
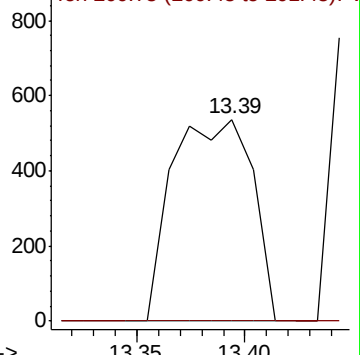


#90
Hexachloroethane
Concen: 1.170 ug/l
RT: 13.39 min Scan# 1339
Delta R.T. -0.01 min
Lab File: VD059748.D
Acq: 13 Aug 2018 22:06

Tgt Ion:117 Resp: 1383
Ion Ratio Lower Upper
117 100
201 0.0 41.9 125.7#

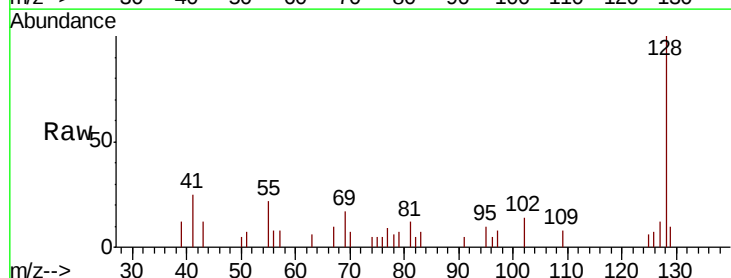


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 200.75 (200.45 to 201.45): V



#95
Naphthalene
Concen: 3.310 ug/l
RT: 14.52 min Scan# 1453
Delta R.T. 0.00 min
Lab File: VD059748.D
Acq: 13 Aug 2018 22:06

Tgt Ion:128 Resp: 8973
Ion Ratio Lower Upper
128 100
127 12.5 10.4 15.6
129 10.0 8.9 13.3



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

