

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032219\
 Data File : VD061259.D
 Acq On : 22 Mar 2019 14:28
 Operator : VA/AP
 Sample : K2003-10
 Misc : 6.09g/5ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 S4A(30)

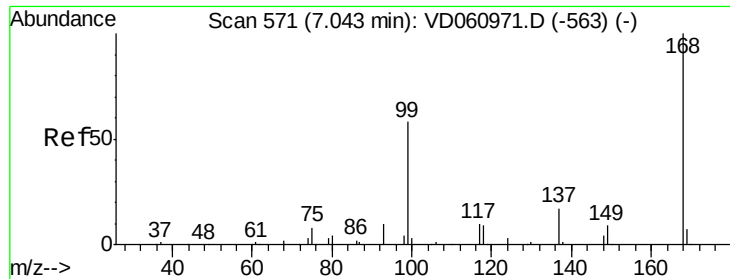
Quant Time: Mar 22 23:27:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 02:35:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.11	168	32048	50.00	ug/l	0.07
34) 1,4-Difluorobenzene	8.27	114	66166	50.00	ug/l	0.06
63) Chlorobenzene-d5	12.40	117	68175	50.00	ug/l	0.04
72) 1,4-Dichlorobenzene-d4	14.54	152	32486	50.00	ug/l	0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.52	65	23563	88.33	ug/l	0.07
Spiked Amount			Recovery	=	176.66%	
35) Dibromofluoromethane	6.98	113	28074	57.17	ug/l	0.06
Spiked Amount			Recovery	=	114.34%	
50) Toluene-d8	10.46	98	62208	50.45	ug/l	0.06
Spiked Amount			Recovery	=	100.90%	
62) 4-Bromofluorobenzene	13.58	95	29792	62.27	ug/l	0.03
Spiked Amount			Recovery	=	124.54%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.23	94	755	14.867	ug/l #	8
10) Methyl Iodide	3.37	142	706	4.163	ug/l #	39
16) Acetone	3.26	43	14487	189.911	ug/l	98
20) Methylene Chloride	3.88	84	3825	6.985	ug/l	88
25) 2-Butanone	6.15	43	2059	23.787	ug/l #	55
26) 2,2-Dichloropropane	6.20	77	2659	5.818	ug/l #	50
29) Tetrahydrofuran	6.52	42	191	4.064	ug/l #	33
36) 1,1-Dichloropropene	7.11	75	1818	3.188	ug/l #	39
37) Ethyl Acetate	6.18	43	2308	8.624	ug/l #	62
38) Carbon Tetrachloride	7.11	117	2773	4.414	ug/l #	11
51) 4-Methyl-2-Pentanone	10.34	43	580	2.554	ug/l #	37
76) 1,2,3-Trichloropropane	13.58	75	10649	22.785	ug/l #	42
81) trans-1,4-Dichloro-2-buten	13.58	75	10649	77.284	ug/l #	17
95) Naphthalene	16.15	128	685	1.092	ug/l #	70

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.11 min Scan# 578

Delta R.T. 0.07 min

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ClientSampleId :

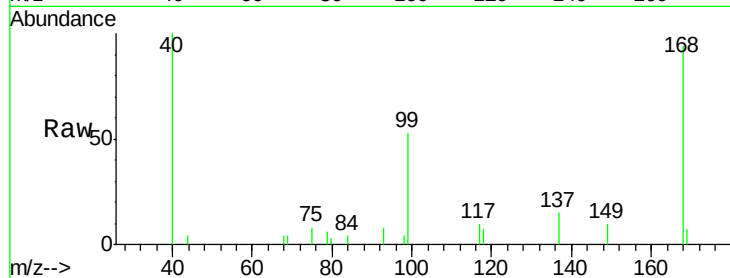
S4A(30)

Tot Ion:168 Resp: 32048

Ion Ratio Lower Upper

168 100

99 56.4 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.11

12000

10000

8000

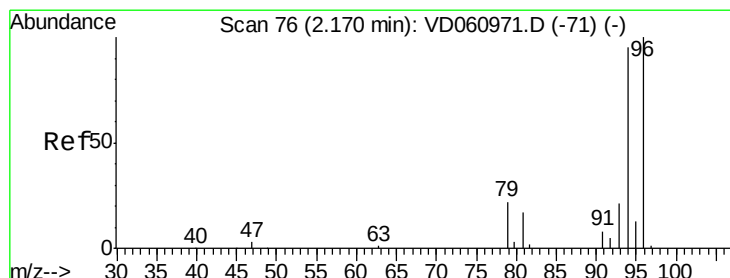
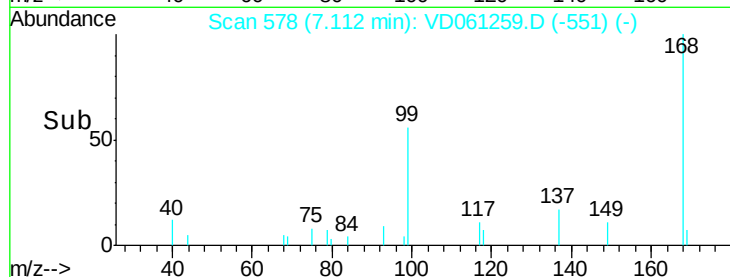
6000

4000

2000

0

Time-->



#5

Bromomethane

Concen: 14.867 ug/l

RT: 2.23 min Scan# 82

Delta R.T. 0.06 min

Lab File: VD061259.D

Acq: 22 Mar 2019 14:28

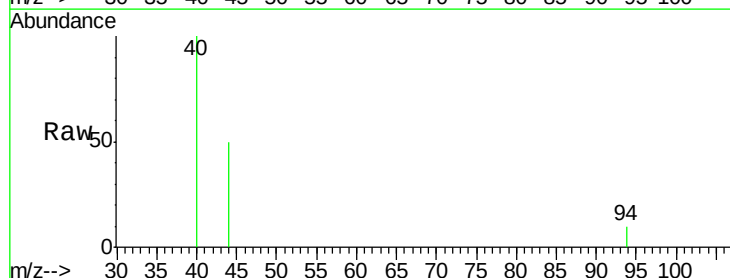
Tgt Ion: 94 Resp: 755

Ion Ratio Lower Upper

94 100

96 0.0 84.0 126.0#

93 0.0 17.3 25.9#



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

2.23

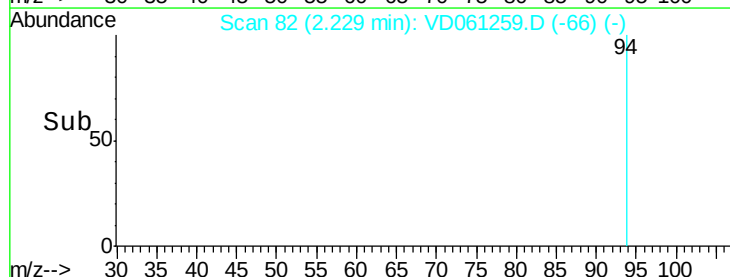
600

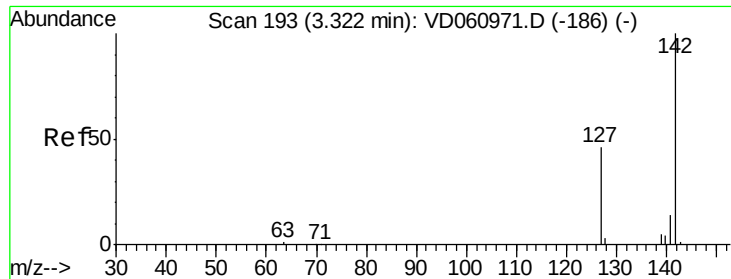
400

200

0

Time-->

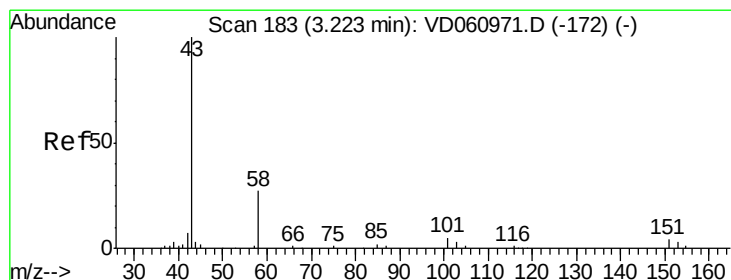
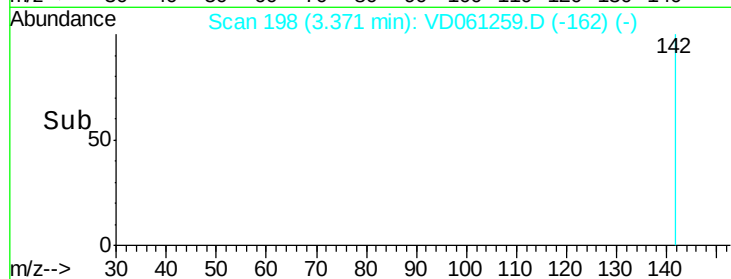
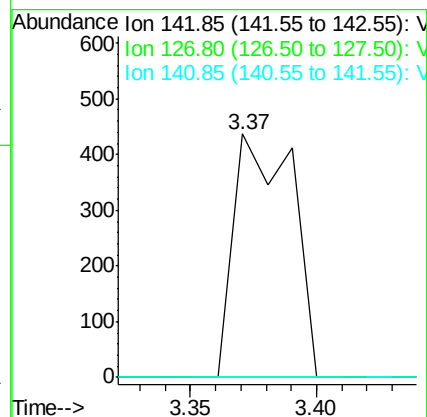
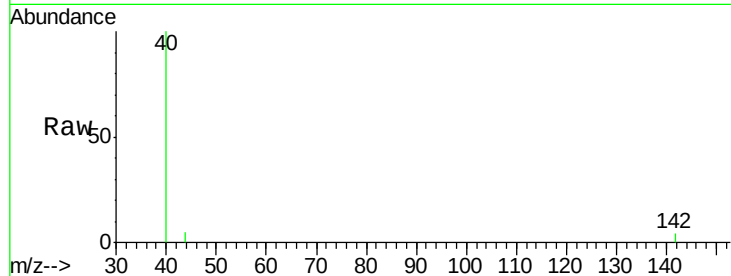




#10
Methvl Iodide
Concen: 4.163 ug/l
RT: 3.37 min Scan# 198
Delta R.T. 0.05 min
Lab File: VD061259.D
Acq: 22 Mar 2019 14:28

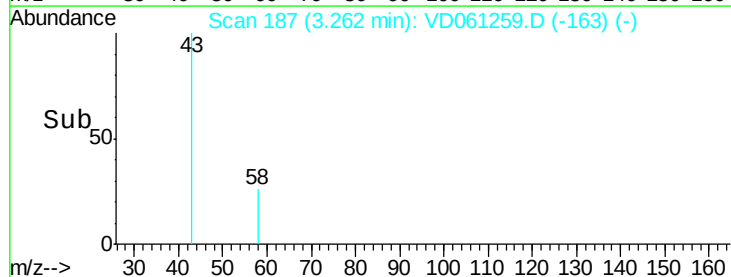
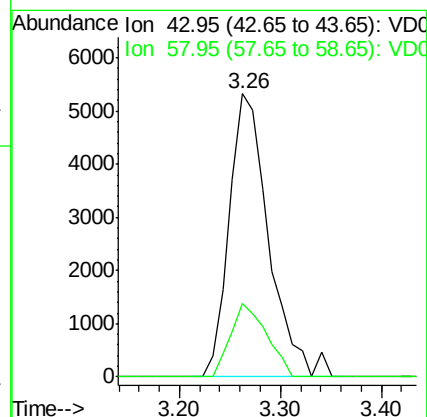
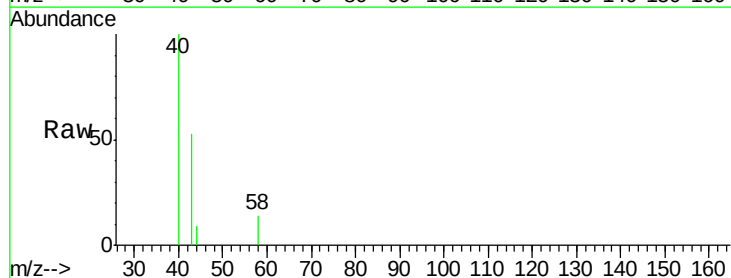
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MSVOA_D
ClientSampleId :
S4A(30)

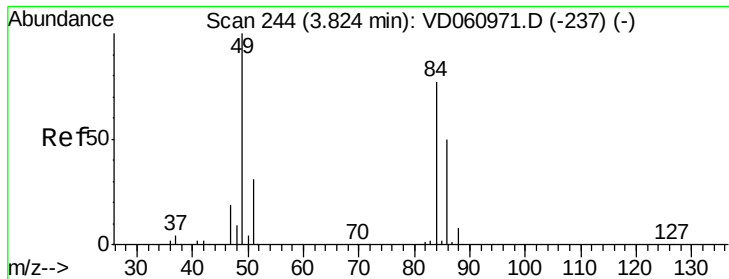
Tot Ion:142 Resp: 706
Ion Ratio Lower Upper
142 100
127 0.0 36.8 55.2#
141 0.0 11.2 16.8#



#16
Acetone
Concen: 189.911 ug/l
RT: 3.26 min Scan# 187
Delta R.T. 0.04 min
Lab File: VD061259.D
Acq: 22 Mar 2019 14:28

Tgt Ion: 43 Resp: 14487
Ion Ratio Lower Upper
43 100
58 26.1 21.6 32.4

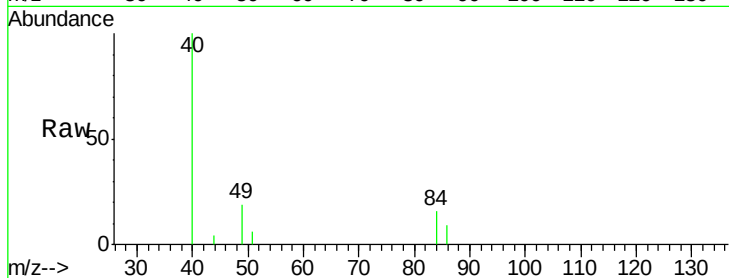




#20
Methylene Chloride
Concen: 6.985 ug/l
RT: 3.88 min Scan# 250
Delta R.T. 0.06 min
Lab File: VD061259.D
Acq: 22 Mar 2019 14:28

Instrument :
MSVOA_D
ClientSampleId :
S4A(30)

Tot Ion:	84	Resp:	3825
Ion	Ratio	Lower	Upper
84	100		
49	118.5	104.2	156.2
51	34.4	32.3	48.5
86	52.9	52.3	78.5

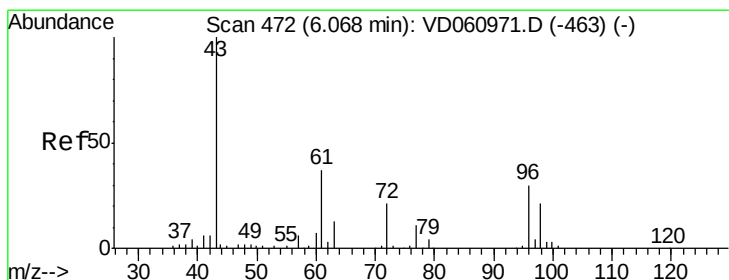
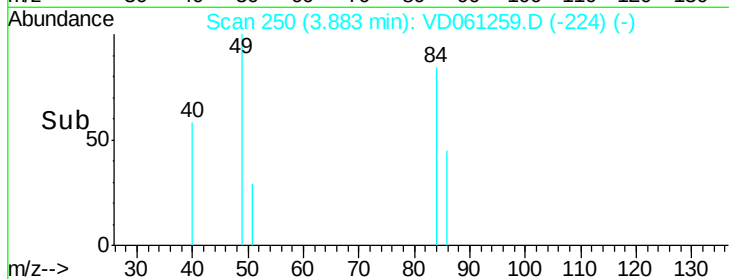
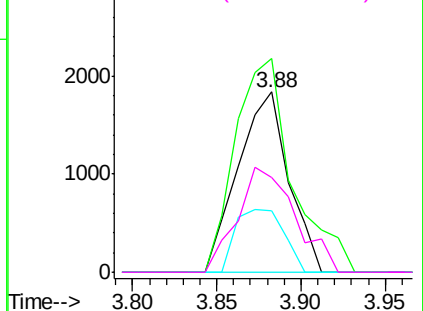


Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

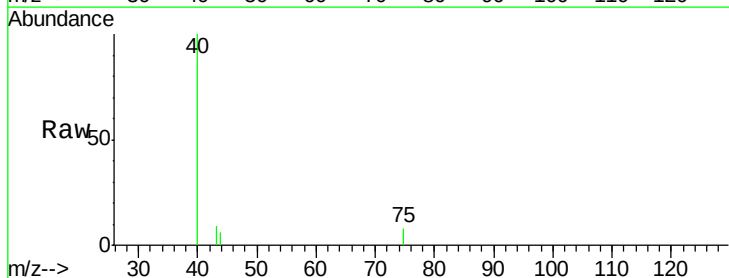
Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC



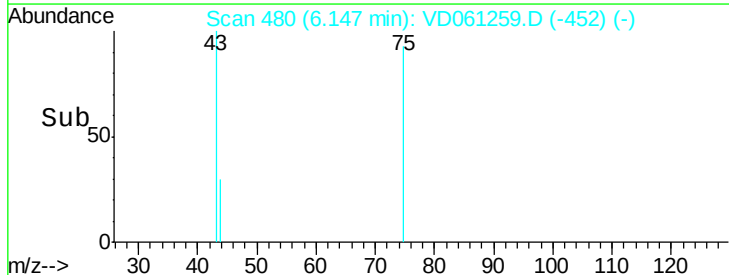
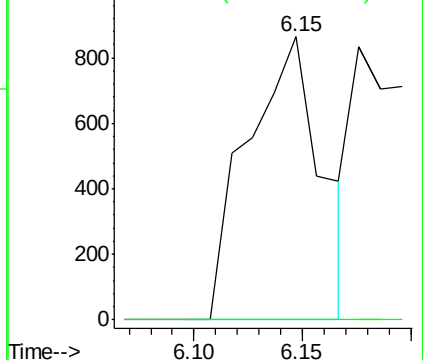
#25
2-Butanone
Concen: 23.787 ug/l
RT: 6.15 min Scan# 480
Delta R.T. 0.08 min
Lab File: VD061259.D
Acq: 22 Mar 2019 14:28

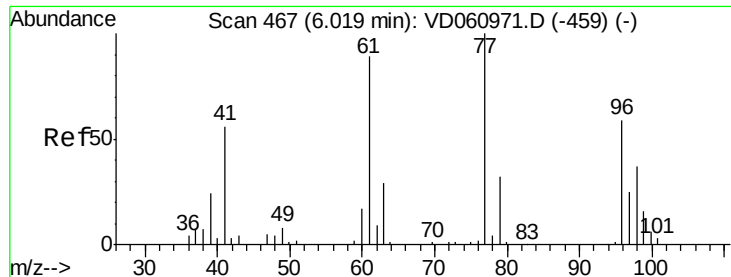
Tgt Ion:	43	Resp:	2059
Ion	Ratio	Lower	Upper
43	100		
72	0.0	16.7	25.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

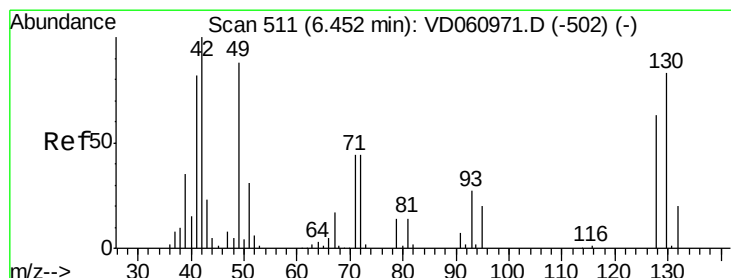
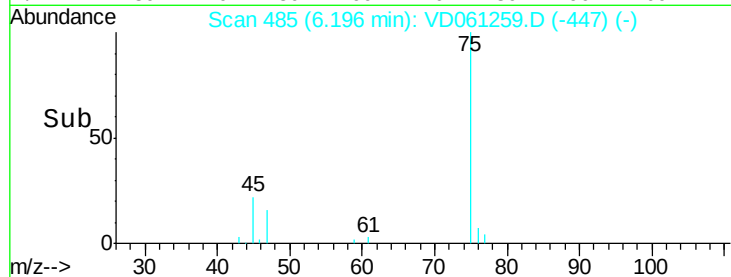
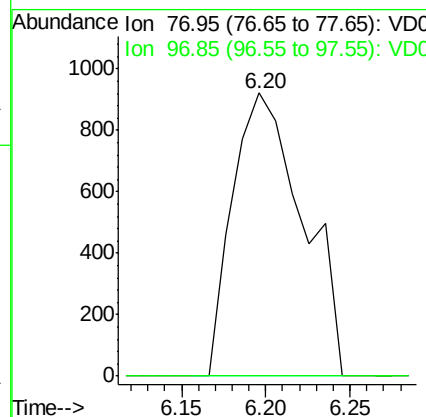
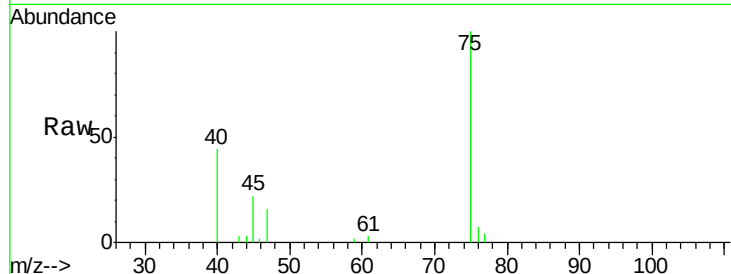




#26
 2,2-Dichloropropane
 Concen: 5.818 ug/l
 RT: 6.20 min Scan# 485
 Delta R.T. 0.18 min
 Lab File: VD061259.D
 Acq: 22 Mar 2019 14:28

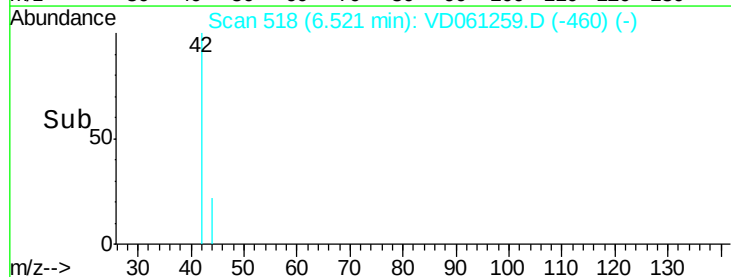
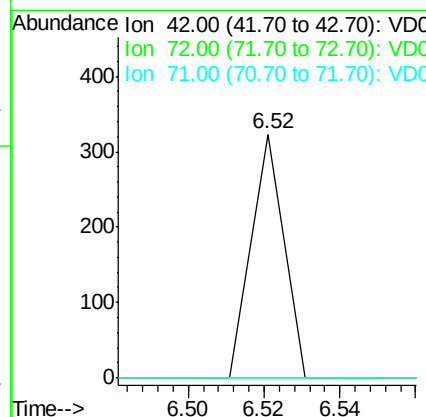
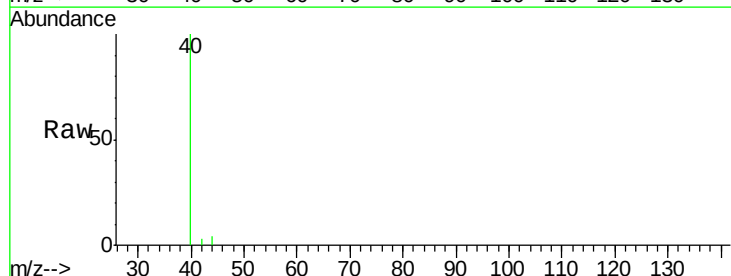
Instrument :
 MSVOA_D
 ClientSampleId :
 S4A(30)

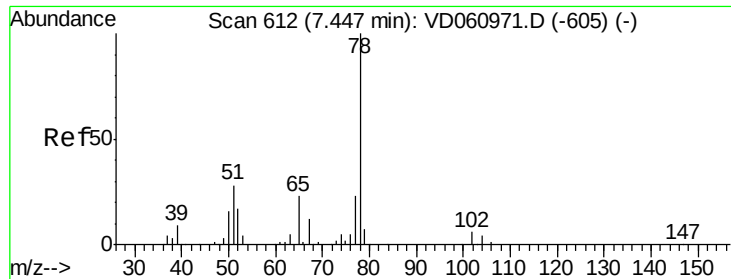
Tot Ion: 77 Resp: 2659
 Ion Ratio Lower Upper
 77 100
 97 0.0 12.6 37.6#



#29
 Tetrahydrofuran
 Concen: 4.064 ug/l
 RT: 6.52 min Scan# 518
 Delta R.T. 0.07 min
 Lab File: VD061259.D
 Acq: 22 Mar 2019 14:28

Tgt Ion: 42 Resp: 191
 Ion Ratio Lower Upper
 42 100
 72 0.0 34.5 51.7#
 71 0.0 33.8 50.6#

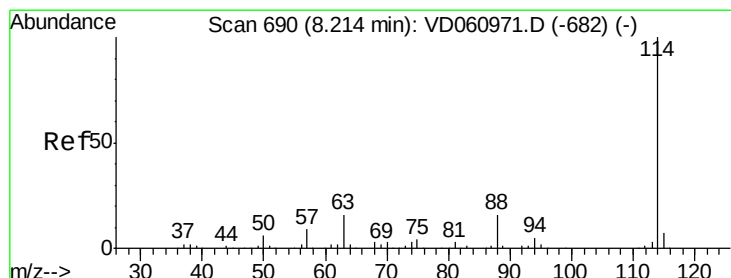
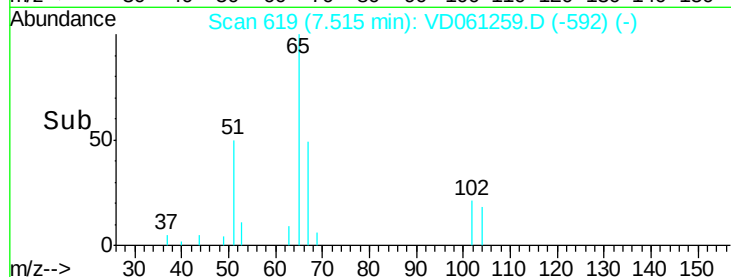
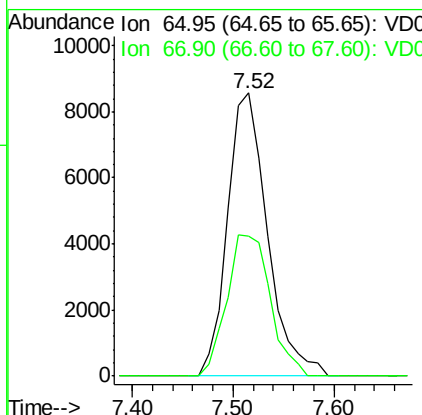
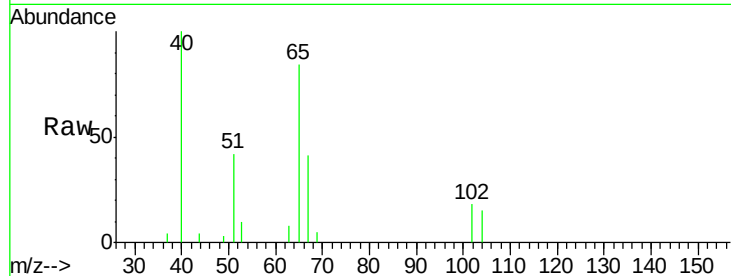




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 7.52 min Scan# 619
 Delta R.T. 0.07 min
 Lab File: VD061259.D
 Acq: 22 Mar 2019 14:28

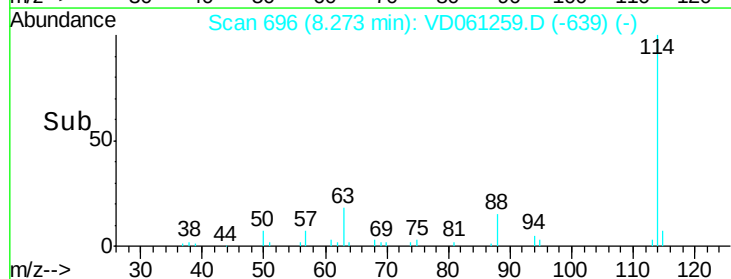
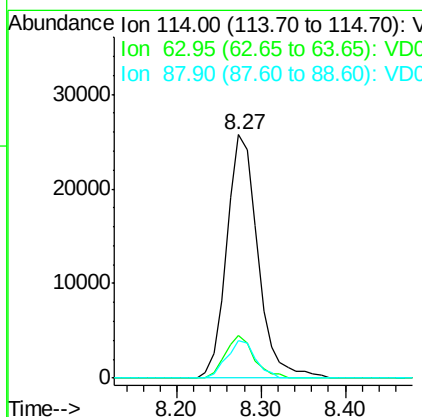
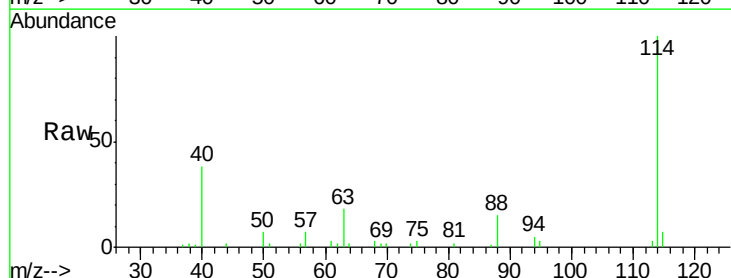
Instrument :
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 ClientSampleId :
 S4A(30)

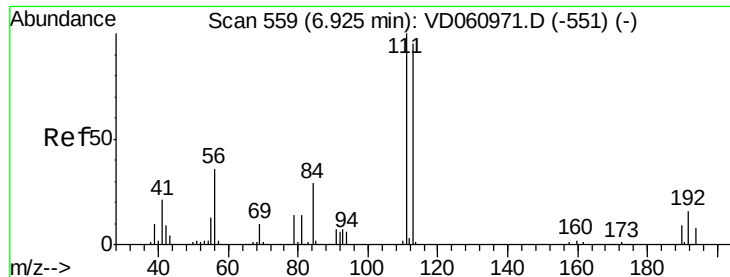
Tot Ion: 65 Resp: 23563
 Ion Ratio Lower Upper
 65 100
 67 49.4 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.27 min Scan# 696
 Delta R.T. 0.06 min
 Lab File: VD061259.D
 Acq: 22 Mar 2019 14:28

Tgt Ion: 114 Resp: 66166
 Ion Ratio Lower Upper
 114 100
 63 17.7 0.0 31.4
 88 15.4 0.0 33.0

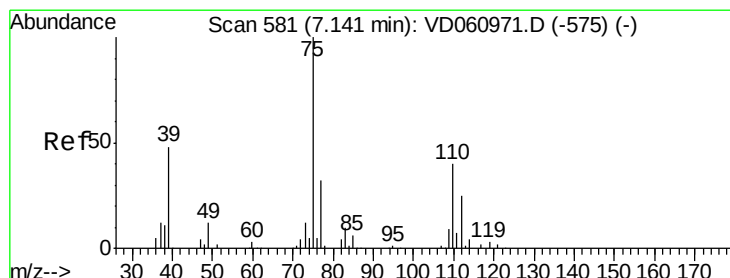
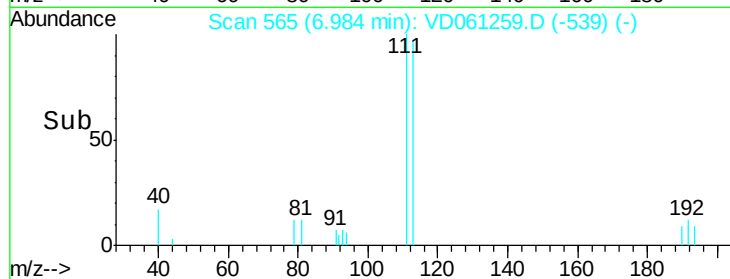
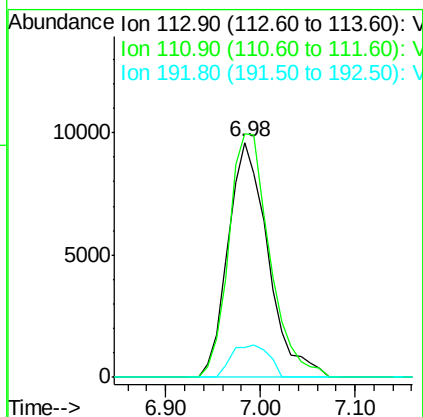
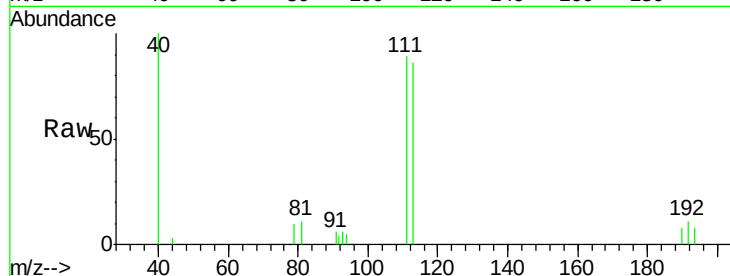




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.98 min Scan# 565
 Delta R.T. 0.06 min
 Lab File: VD061259.D
 Acq: 22 Mar 2019 14:28

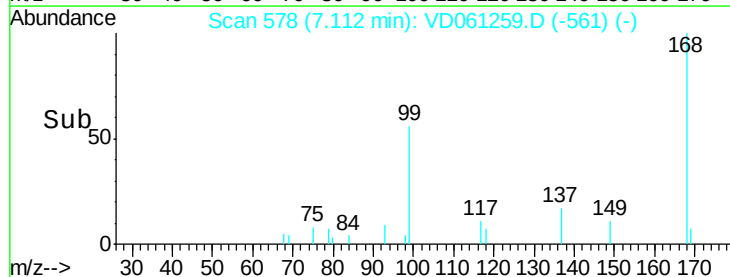
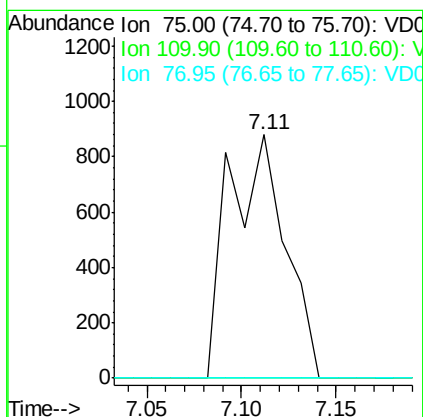
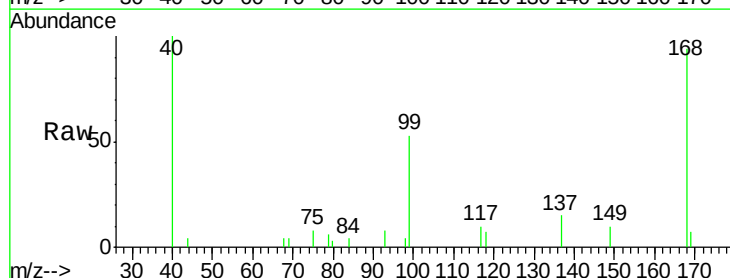
Instrument :
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 ClientSampleId :
 S4A(30)

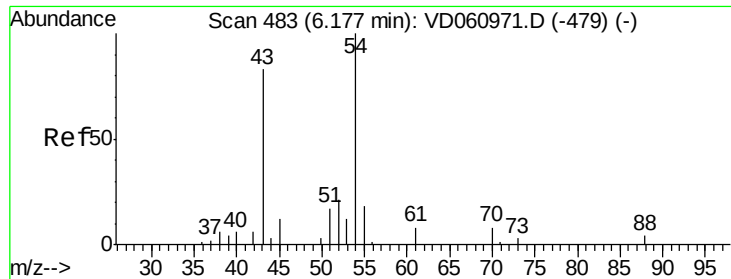
Tot Ion:113 Resp: 28074
 Ion Ratio Lower Upper
 113 100
 111 103.6 84.2 126.4
 192 12.5 13.1 19.7#



#36
 1,1-Dichloropropene
 Concen: 3.188 ug/l
 RT: 7.11 min Scan# 578
 Delta R.T. -0.03 min
 Lab File: VD061259.D
 Acq: 22 Mar 2019 14:28

Tgt Ion: 75 Resp: 1818
 Ion Ratio Lower Upper
 75 100
 110 0.0 19.7 59.1#
 77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 8.624 ug/l

RT: 6.18 min Scan# 483

Delta R.T. -0.00 min

Lab File: VD061259.D

Acq: 22 Mar 2019 14:28

Instrument :

MSVOA_D

ClientSampled :

S4A(30)

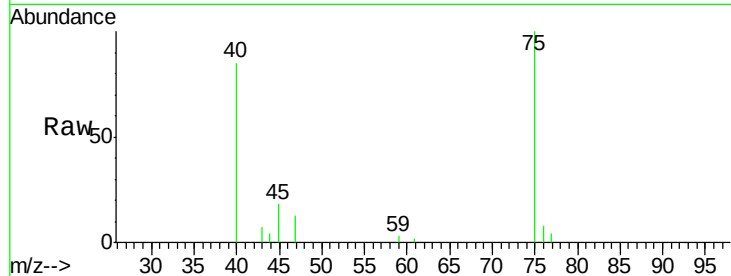
Tot Ion: 43 Resp: 2308

Ion Ratio Lower Upper

43 100

61 36.5 13.7 20.5#

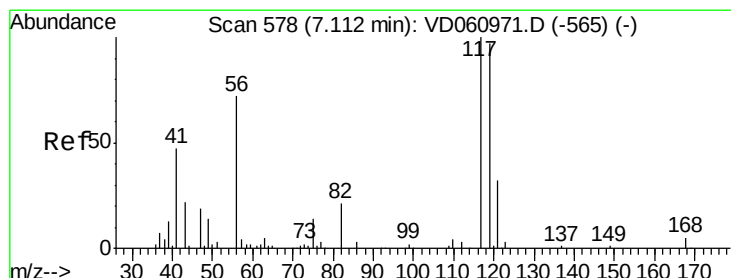
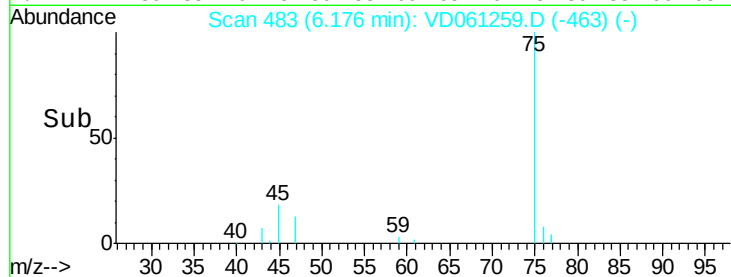
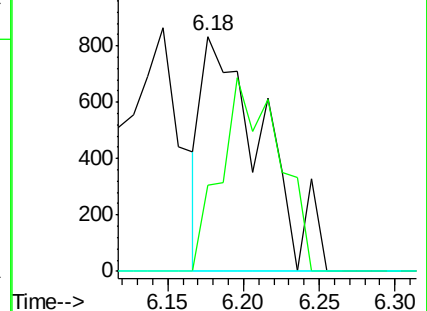
70 0.0 7.1 10.7#



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: 4.414 ug/l

RT: 7.11 min Scan# 578

Delta R.T. -0.00 min

Lab File: VD061259.D

Acq: 22 Mar 2019 14:28

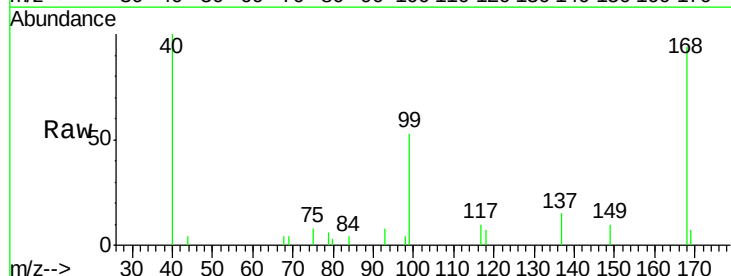
Tgt Ion: 117 Resp: 2773

Ion Ratio Lower Upper

117 100

119 0.0 77.8 116.8#

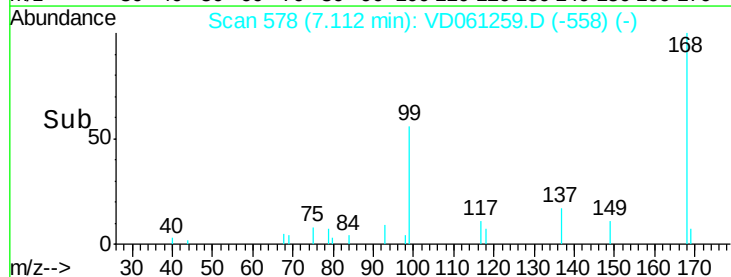
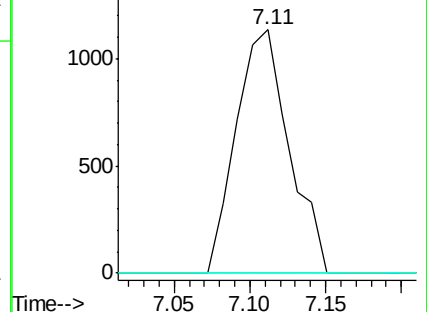
121 0.0 25.3 37.9#

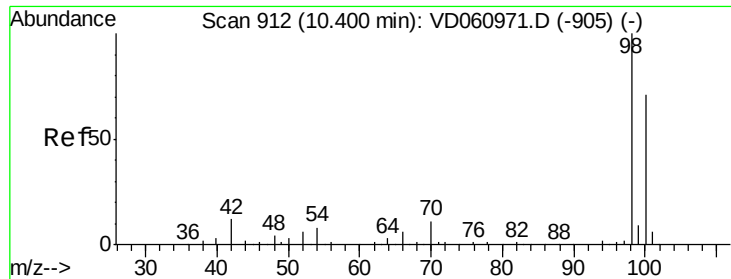


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

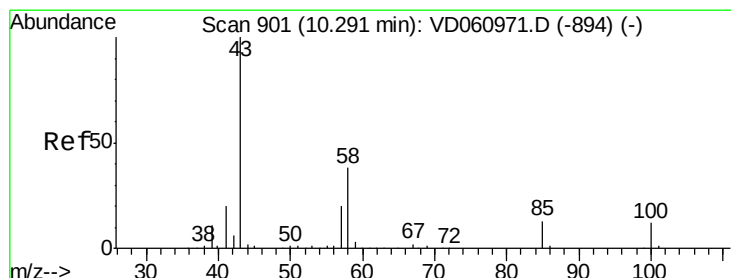
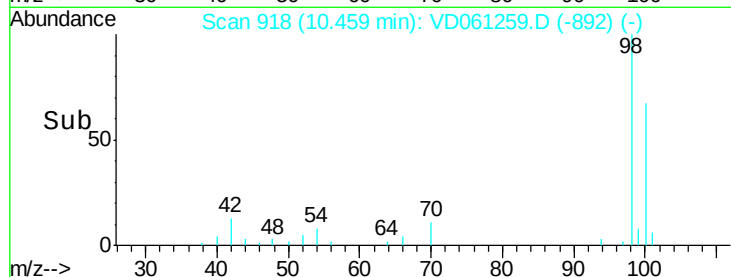
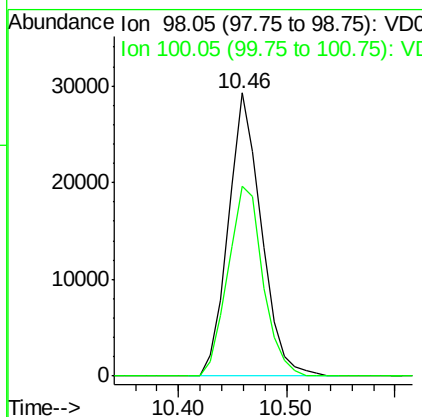
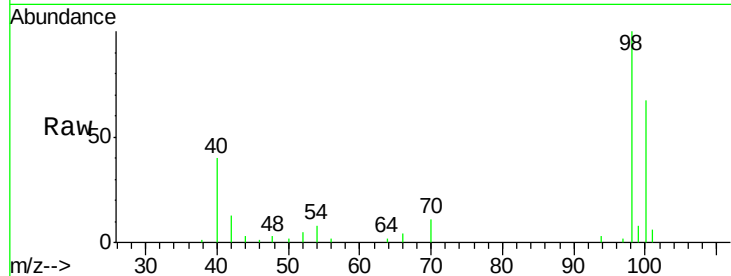




#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.46 min Scan# 918
Delta R.T. 0.06 min
Lab File: VD061259.D
Acq: 22 Mar 2019 14:28

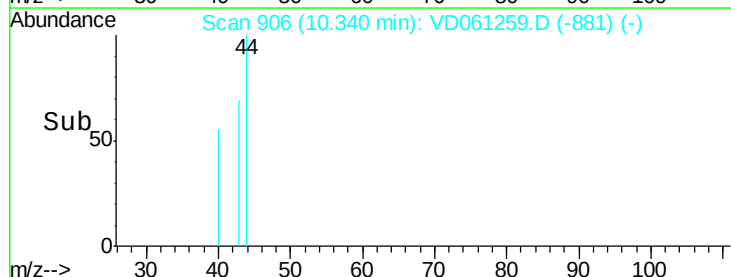
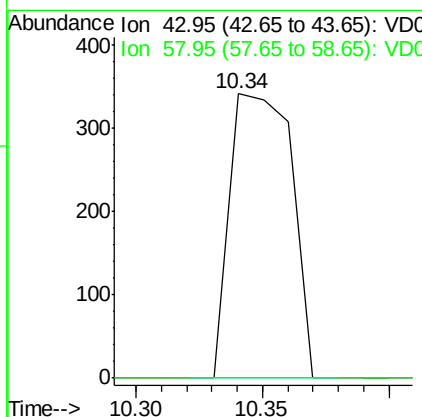
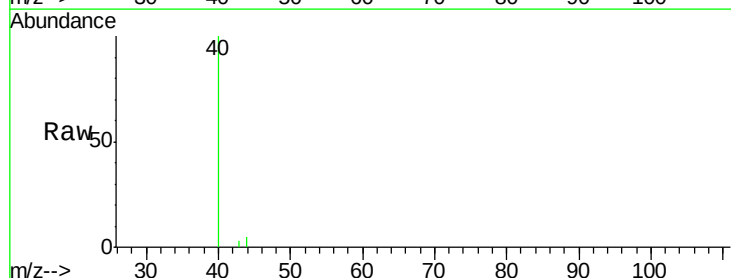
Instrument :
MSVOA_D
ClientSampleId :
S4A(30)

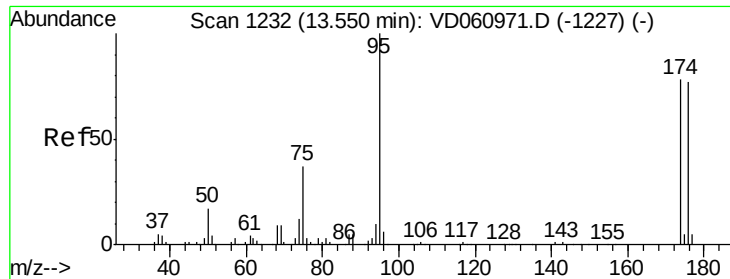
Tot Ion: 98 Resp: 62208
Ion Ratio Lower Upper
98 100
100 67.1 57.4 86.2



#51
4-Methyl-2-Pentanone
Concen: 2.554 ug/l
RT: 10.34 min Scan# 906
Delta R.T. 0.05 min
Lab File: VD061259.D
Acq: 22 Mar 2019 14:28

Tgt Ion: 43 Resp: 580
Ion Ratio Lower Upper
43 100
58 0.0 30.2 45.2#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.58 min Scan# 1235

Delta R.T. 0.03 min

Lab File: VD061259.D

Acq: 22 Mar 2019 14:28

Instrument :

MSVOA_D

ClientSampled :

S4A(30)

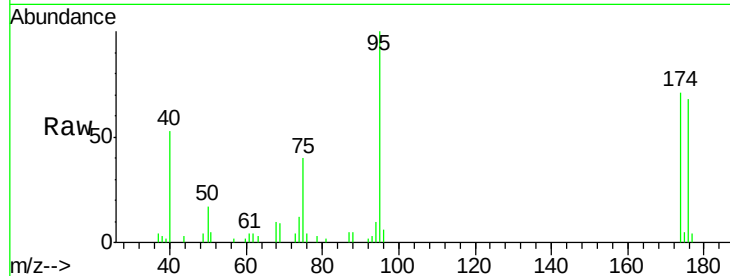
Tot Ion: 95 Resp: 29792

Ion Ratio Lower Upper

95 100

174 70.7 0.0 155.6

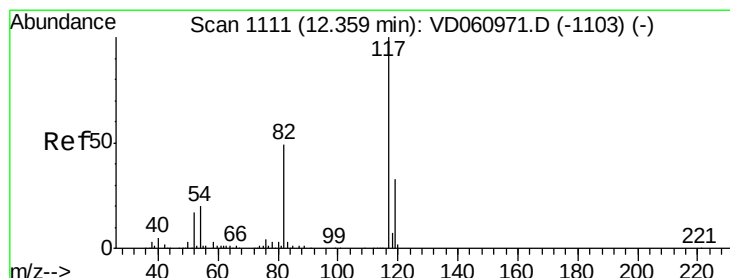
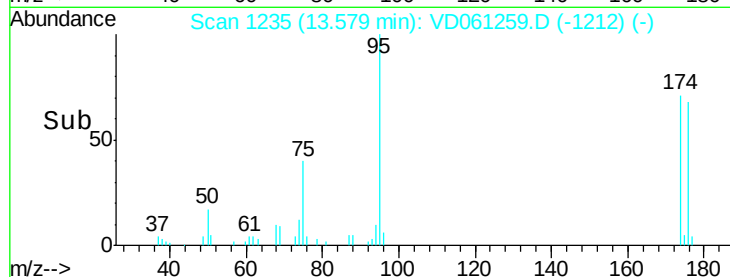
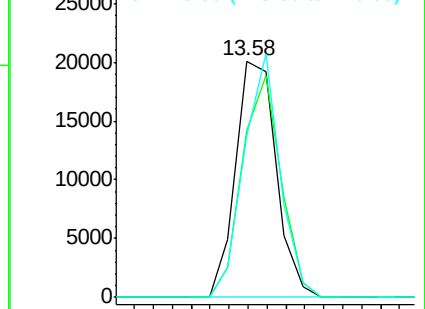
176 68.3 0.0 153.8



Abundance Ion 95.00 (94.70 to 95.70): V

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: 12.40 min Scan# 1115

Delta R.T. 0.04 min

Lab File: VD061259.D

Acq: 22 Mar 2019 14:28

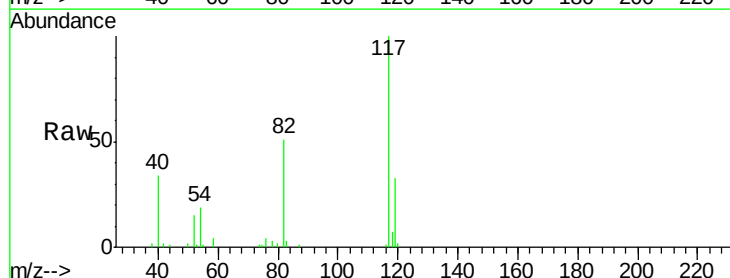
Tgt Ion: 117 Resp: 68175

Ion Ratio Lower Upper

117 100

82 50.9 38.9 58.3

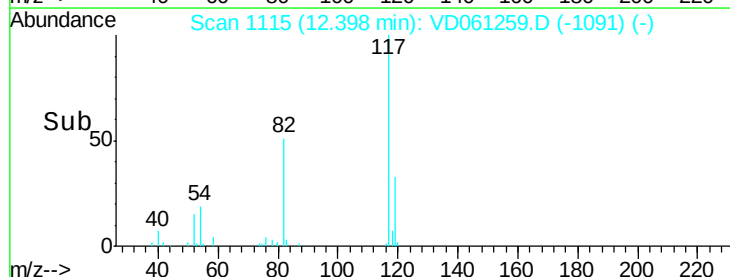
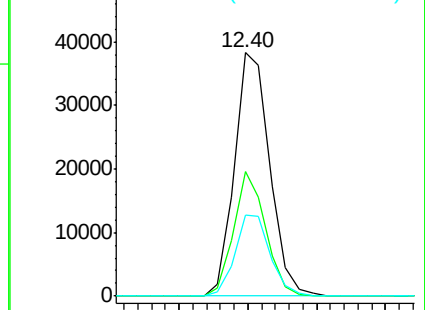
119 33.3 26.6 39.8

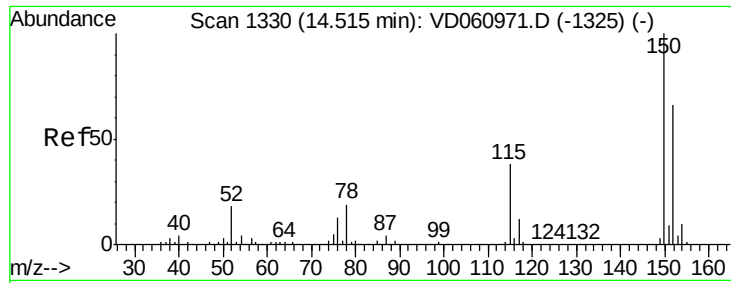


Abundance Ion 116.95 (116.65 to 117.65): V

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: 14.54 min Scan# 1333

Delta R.T. 0.03 min

Lab File: VD061259.D

Acq: 22 Mar 2019 14:28

Instrument :

MSVOA_D

ClientSampleId :

S4A(30)

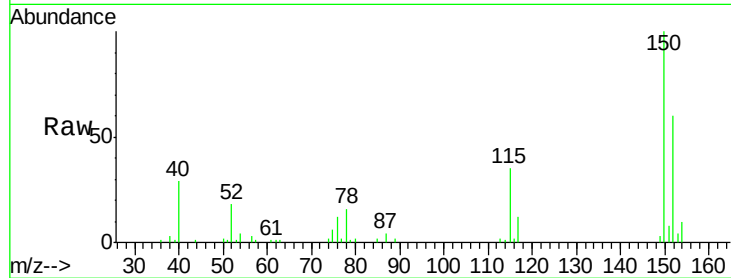
Tot Ion:152 Resp: 32486

Ion Ratio Lower Upper

152 100

115 58.6 28.6 85.9

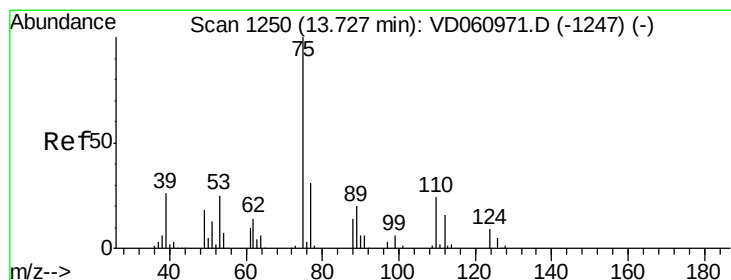
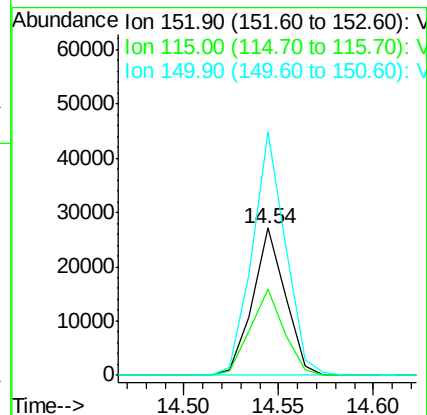
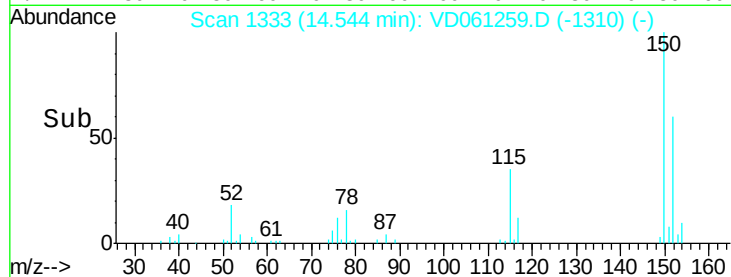
150 165.6 0.0 310.6



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



#76

1,2,3-Trichloropropane

Concen: 22.785 ug/l

RT: 13.58 min Scan# 1235

Delta R.T. -0.15 min

Lab File: VD061259.D

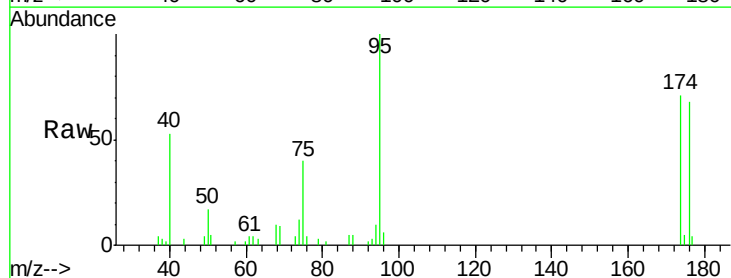
Acq: 22 Mar 2019 14:28

Tgt Ion: 75 Resp: 10649

Ion Ratio Lower Upper

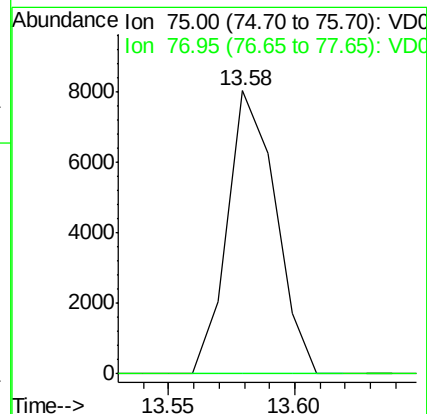
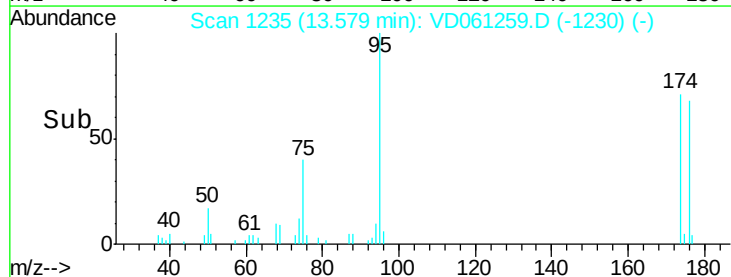
75 100

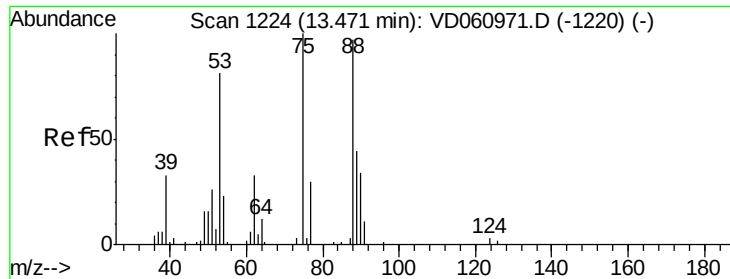
77 0.0 16.6 49.7#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 77.284 ug/l

RT: 13.58 min Scan# 1235

Delta R.T. 0.11 min

Lab File: VD061259.D

Acq: 22 Mar 2019 14:28

Instrument :

MSVOA_D

ClientSampleId :

S4A(30)

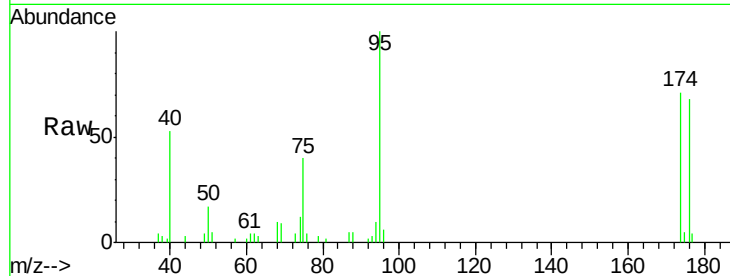
Tot Ion: 75 Resp: 10649

Ion Ratio Lower Upper

75 100

53 0.0 64.4 96.6#

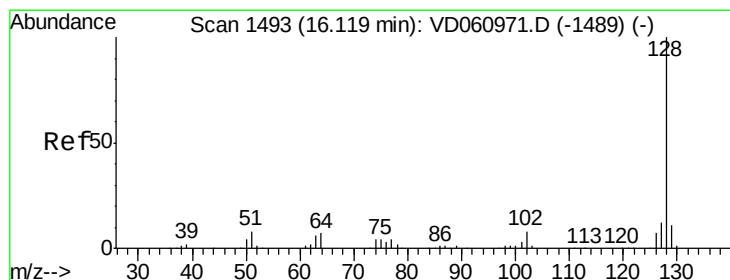
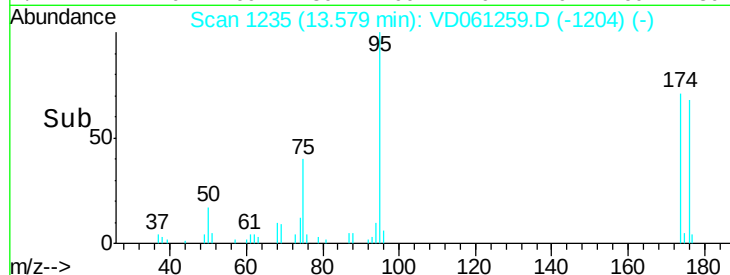
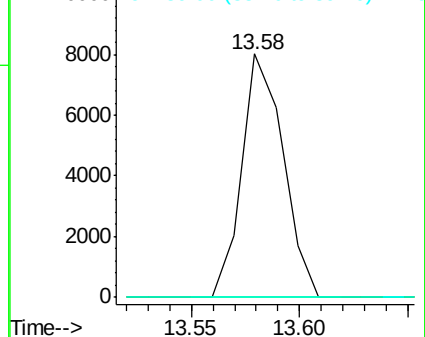
89 0.0 34.8 52.2#



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: 1.092 ug/l

RT: 16.15 min Scan# 1496

Delta R.T. 0.03 min

Lab File: VD061259.D

Acq: 22 Mar 2019 14:28

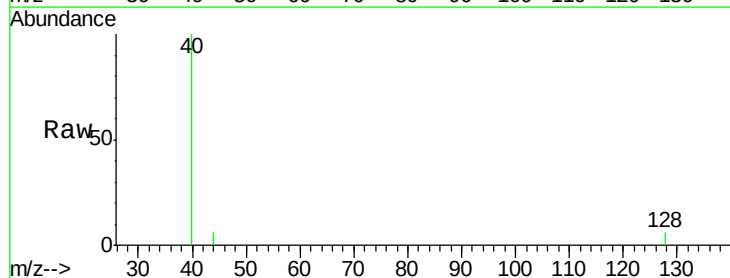
Tgt Ion: 128 Resp: 685

Ion Ratio Lower Upper

128 100

127 0.0 9.8 14.8#

129 0.0 8.5 12.7#



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

