

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041919\
 Data File : VD061919.D
 Acq On : 19 Apr 2019 19:41
 Operator : VA/AP
 Sample : K2475-07
 Misc : 4.84g/5ml/MSVOA D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 19 23:11:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D041519S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 18 13:49:04 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	317551	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.22	114	463731	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.38	117	289815	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	88009	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.47	65	159976	60.11	ug/l	0.01
Spiked Amount			Recovery	=	120.22%	
35) Dibromofluoromethane	6.93	113	248587	70.95	ug/l	0.01
Spiked Amount			Recovery	=	141.90%	
50) Toluene-d8	10.42	98	391900	47.21	ug/l	0.01
Spiked Amount			Recovery	=	94.42%	
62) 4-Bromofluorobenzene	13.56	95	114676	34.08	ug/l	0.00
Spiked Amount			Recovery	=	68.16%	

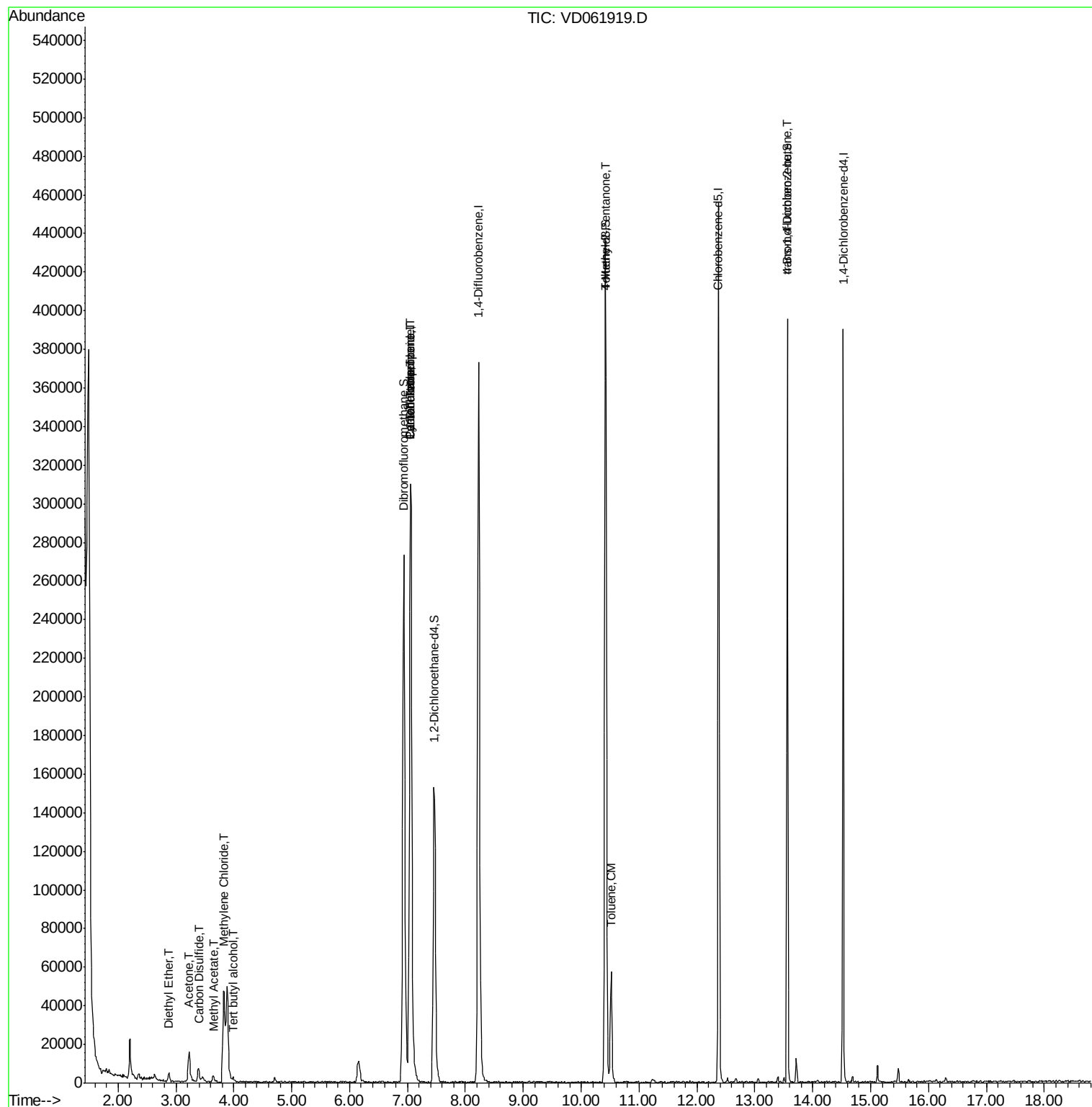
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.17	94	690	Below Cal	#	12
8) Diethyl Ether	2.88	74	1849	1.775	ug/l	63
11) Tert butyl alcohol	4.00	59	931	5.932	ug/l #	76
16) Acetone	3.22	43	30944	47.176	ug/l	96
17) Carbon Disulfide	3.39	76	12418	1.290	ug/l	97
18) Methyl Acetate	3.65	43	6375	4.849	ug/l	91
20) Methylene Chloride	3.83	84	36796	7.375	ug/l	93
31) Cyclohexane	7.04	56	4550	1.129	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	21504	5.675	ug/l #	48
38) Carbon Tetrachloride	7.05	117	30573	6.389	ug/l #	15
51) 4-Methyl-2-Pentanone	10.41	43	1649	1.181	ug/l #	1
52) Toluene	10.52	92	30287	5.195	ug/l	91
81) trans-1,4-Dichloro-2-buten	13.56	75	45004	115.473	ug/l #	16

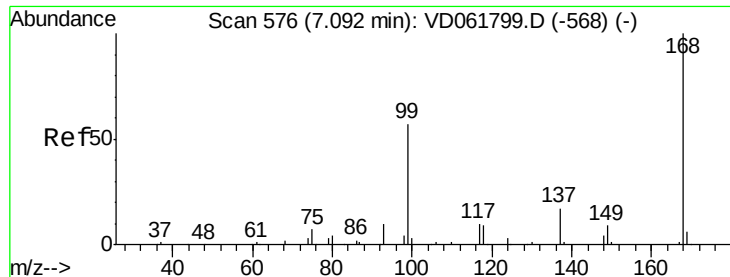
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 573

Delta R.T. 0.01 min

Lab File: VD061919.D

Acq: 19 Apr 2019 19:41

Instrument :

MSVOA_D

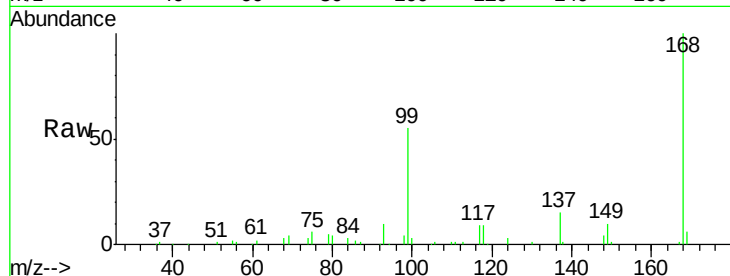
ClientSampleId :

Tot Ion:168 Resp: 317551

Ion Ratio Lower Upper

168 100

99 55.0 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.06

120000

100000

80000

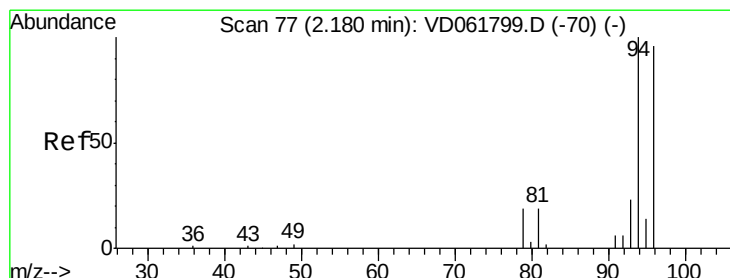
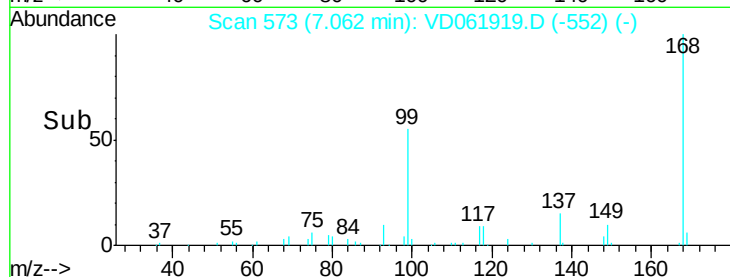
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.17 min Scan# 76

Delta R.T. 0.02 min

Lab File: VD061919.D

Acq: 19 Apr 2019 19:41

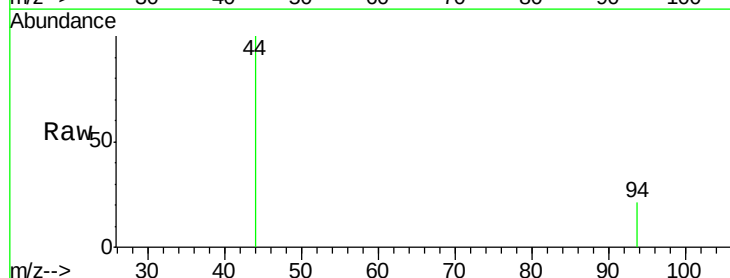
Tgt Ion: 94 Resp: 690

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

93 0.0 18.5 27.7#



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

600

500

400

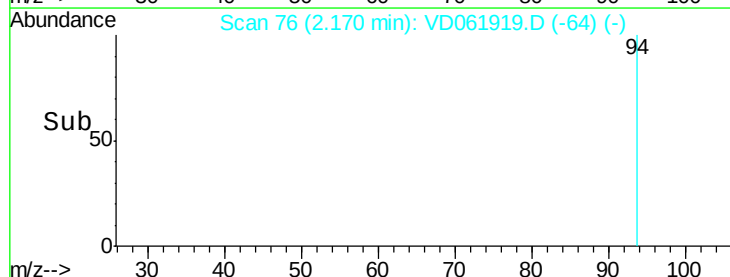
300

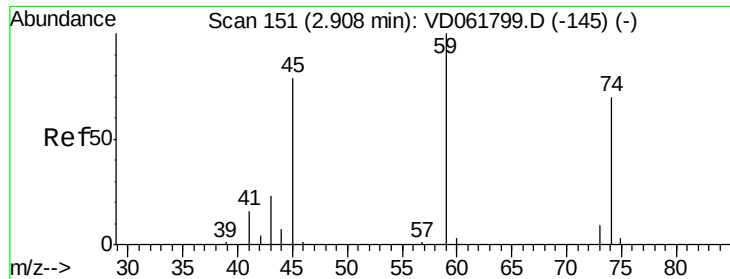
200

100

0

Time-->





#8

Diethyl Ether

Concen: 1.775 ug/l

RT: 2.88 min Scan# 148

Delta R.T. 0.01 min

Lab File: VD061919.D

Acq: 19 Apr 2019 19:41

Instrument :

MSVOA_D

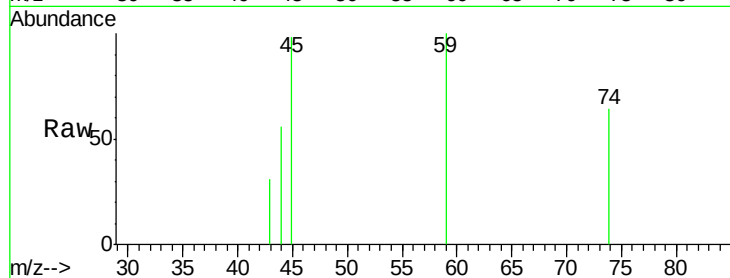
ClientSampled :

Tot Ion: 74 Resp: 1849

Ion Ratio Lower Upper

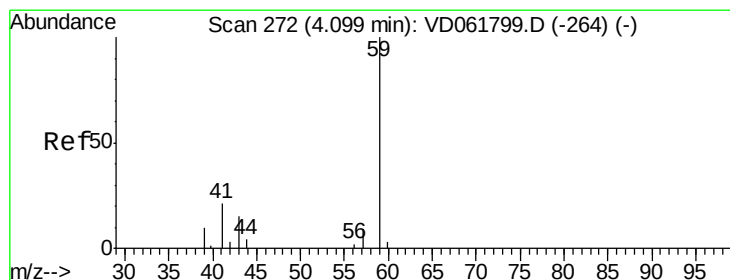
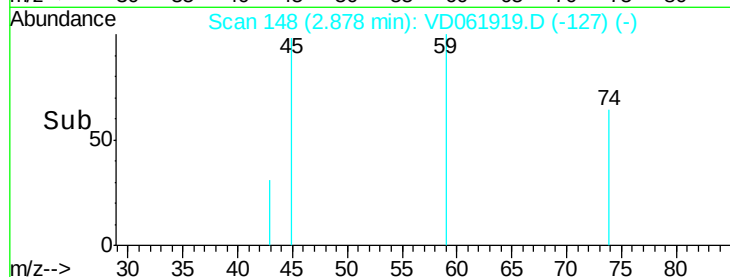
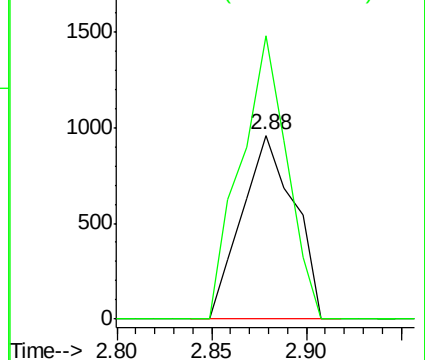
74 100

45 153.8 56.9 170.7



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



#11

Tert butyl alcohol

Concen: 5.932 ug/l

RT: 4.00 min Scan# 262

Delta R.T. -0.06 min

Lab File: VD061919.D

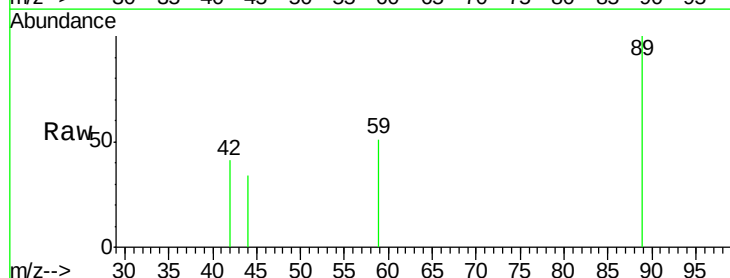
Acq: 19 Apr 2019 19:41

Tgt Ion: 59 Resp: 931

Ion Ratio Lower Upper

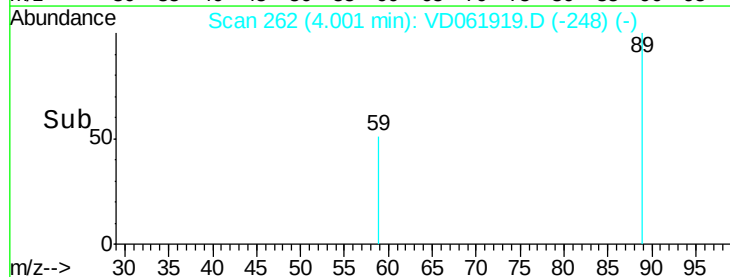
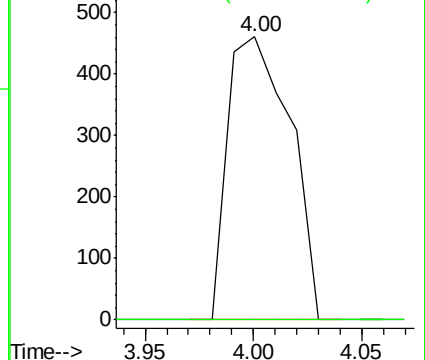
59 100

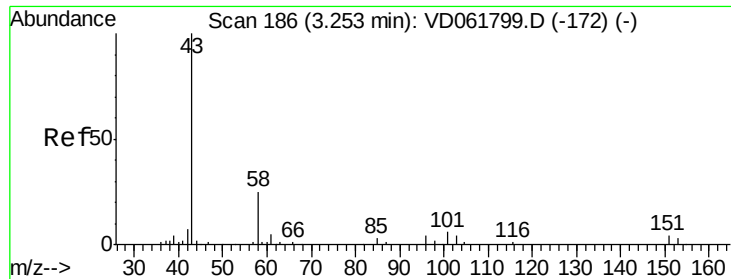
57 0.0 6.9 10.3#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#16

Acetone

Concen: 47.176 ug/l

RT: 3.22 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD061919.D

Acq: 19 Apr 2019 19:41

Instrument :

MSVOA_D

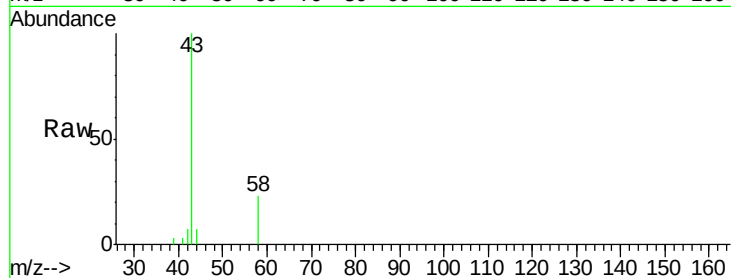
ClientSampleId :

Tot Ion: 43 Resp: 30944

Ion Ratio Lower Upper

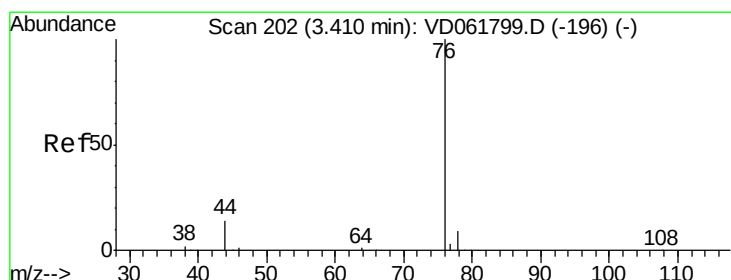
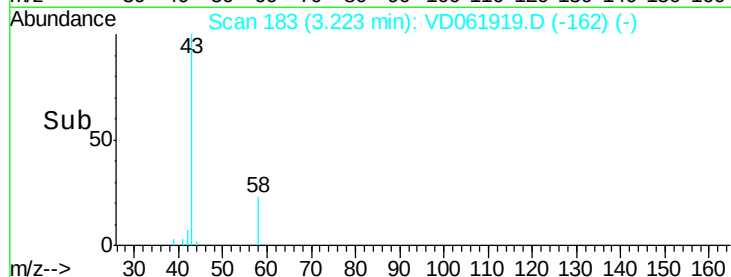
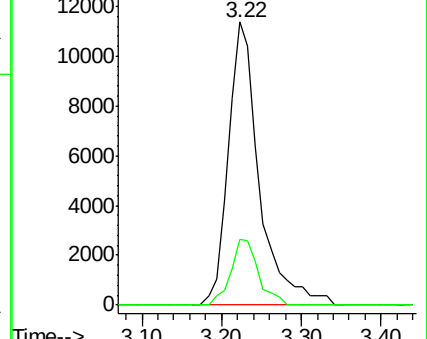
43 100

58 23.1 19.9 29.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#17

Carbon Disulfide

Concen: 1.290 ug/l

RT: 3.39 min Scan# 200

Delta R.T. 0.01 min

Lab File: VD061919.D

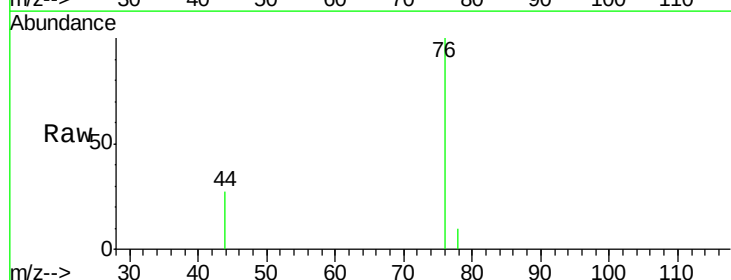
Acq: 19 Apr 2019 19:41

Tgt Ion: 76 Resp: 12418

Ion Ratio Lower Upper

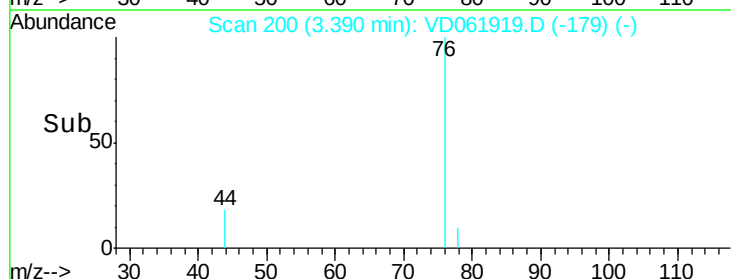
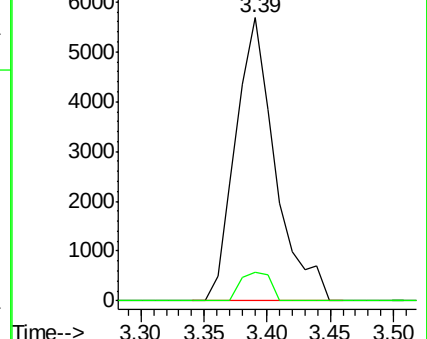
76 100

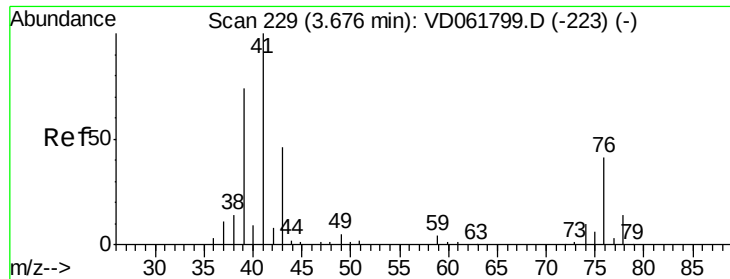
78 10.0 7.2 10.8



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

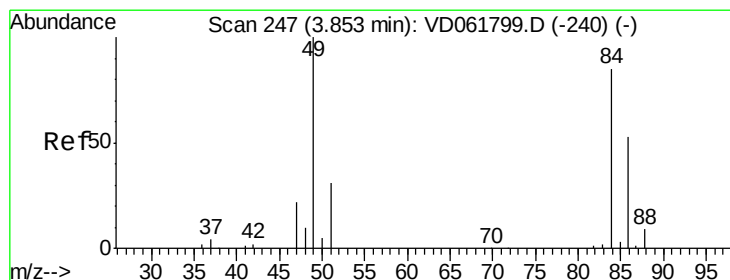
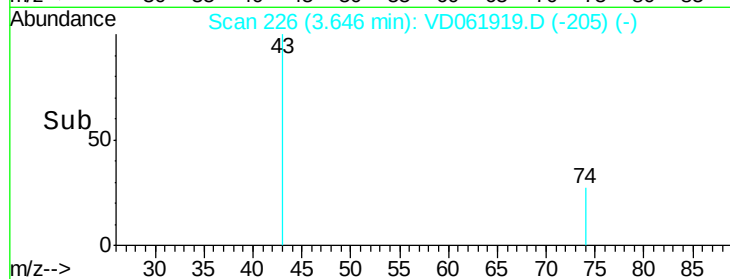
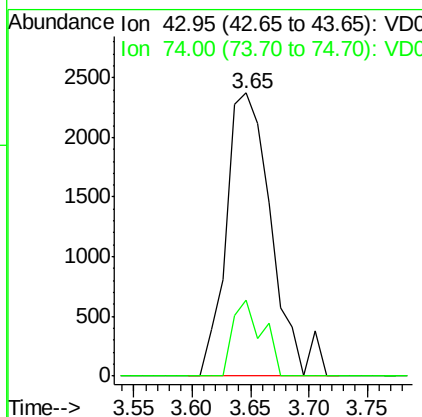
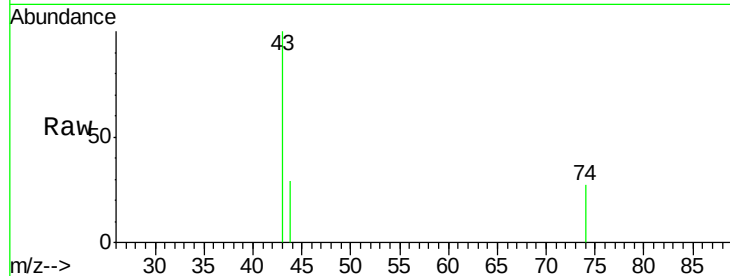




#18
Methyl Acetate
Concen: 4.849 ug/l
RT: 3.65 min Scan# 226
Delta R.T. 0.01 min
Lab File: VD061919.D
Acq: 19 Apr 2019 19:41

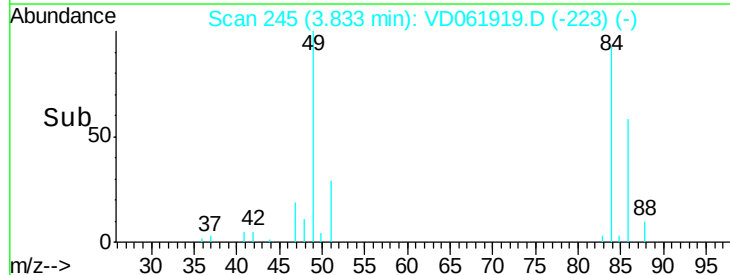
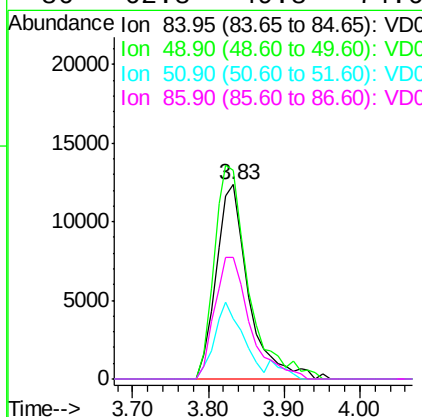
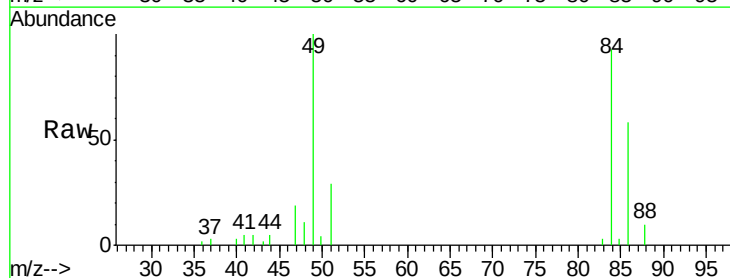
Instrument :
MSVOA_D
ClientSampleId :

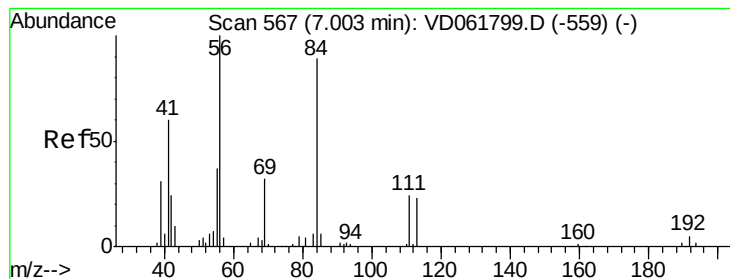
Tot Ion: 43 Resp: 6375
Ion Ratio Lower Upper
43 100
74 26.8 18.0 27.0



#20
Methylene Chloride
Concen: 7.375 ug/l
RT: 3.83 min Scan# 245
Delta R.T. 0.02 min
Lab File: VD061919.D
Acq: 19 Apr 2019 19:41

Tgt Ion: 84 Resp: 36796
Ion Ratio Lower Upper
84 100
49 107.4 94.0 141.0
51 30.8 29.0 43.4
86 62.8 49.8 74.6





#31

Cyclohexane

Concen: 1.129 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.09 min

Lab File: VD061919.D

Acq: 19 Apr 2019 19:41

Instrument :
MSVOA_D
ClientSampleId :

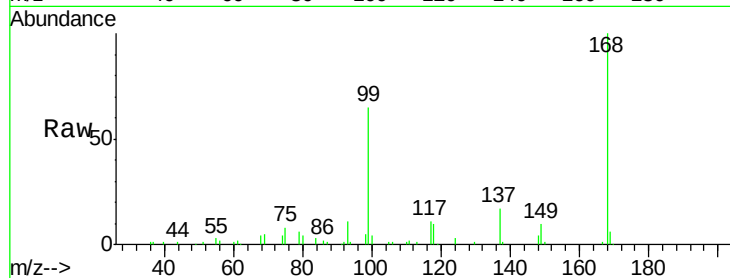
Tot Ion: 56 Resp: 4550

Ion Ratio Lower Upper

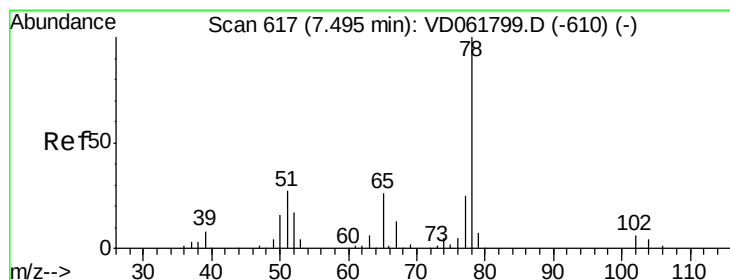
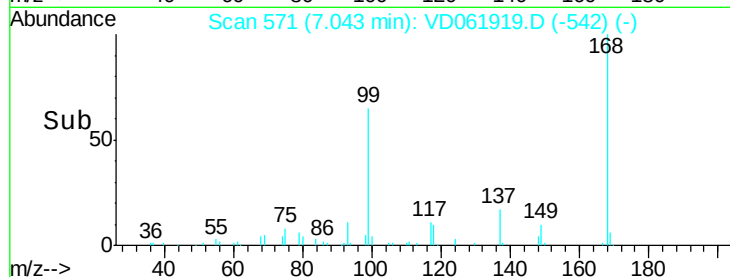
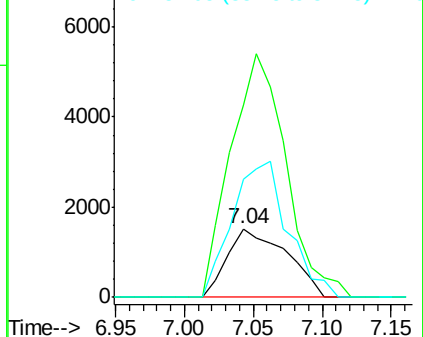
56 100

69 280.4 25.8 38.6#

84 172.1 72.2 108.4#



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: N.D. ug/l

RT: 7.47 min Scan# 614

Delta R.T. 0.01 min

Lab File: VD061919.D

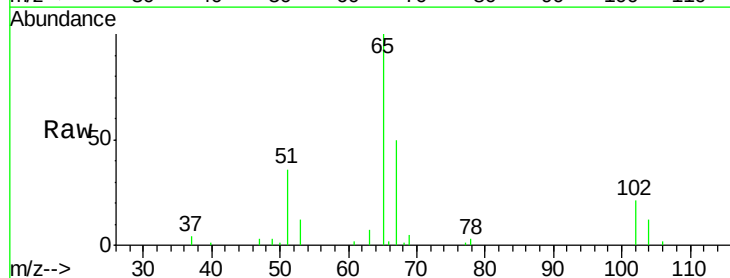
Acq: 19 Apr 2019 19:41

Tgt Ion: 65 Resp: 159976

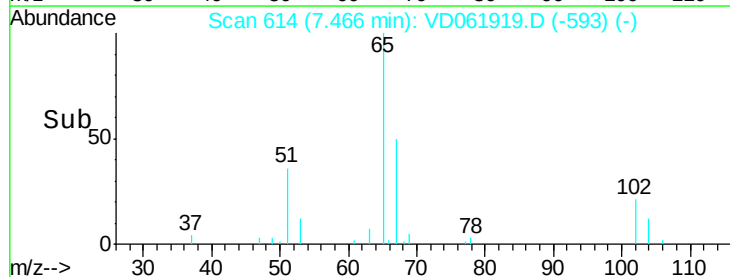
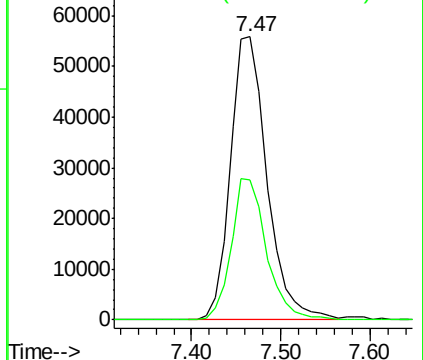
Ion Ratio Lower Upper

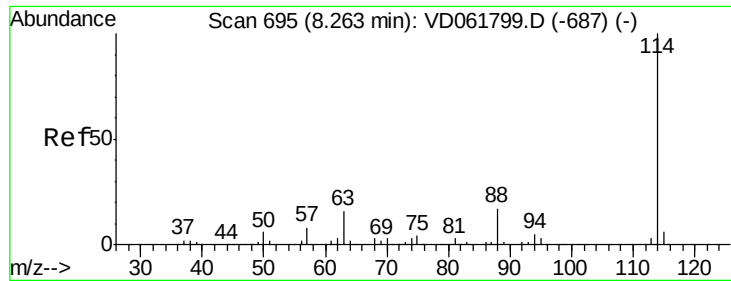
65 100

67 49.6 0.0 98.0



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: 8.22 min Scan# 691

Delta R.T. 0.00 min

Lab File: VD061919.D

Acq: 19 Apr 2019 19:41

Instrument :

MSVOA_D

ClientSampleId :

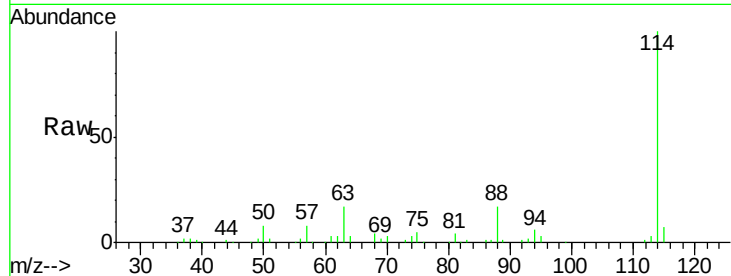
Tot Ion:114 Resp: 463731

Ion Ratio Lower Upper

114 100

63 16.8 0.0 32.4

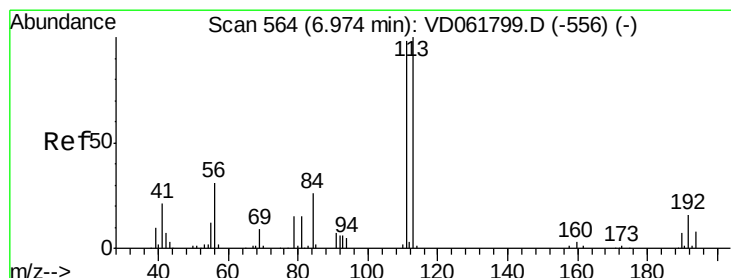
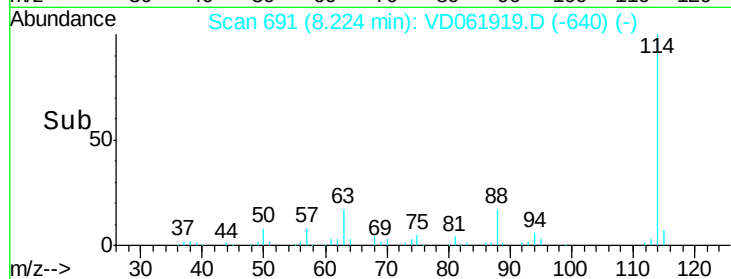
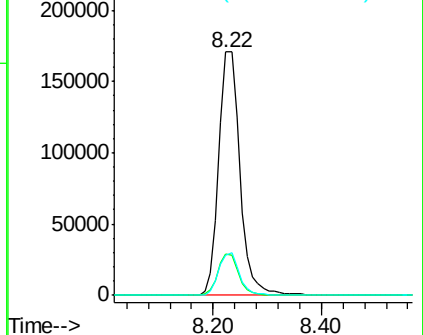
88 16.7 0.0 33.6



Abundance Ion 114.00 (113.70 to 114.70): V

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: 6.93 min Scan# 560

Delta R.T. 0.01 min

Lab File: VD061919.D

Acq: 19 Apr 2019 19:41

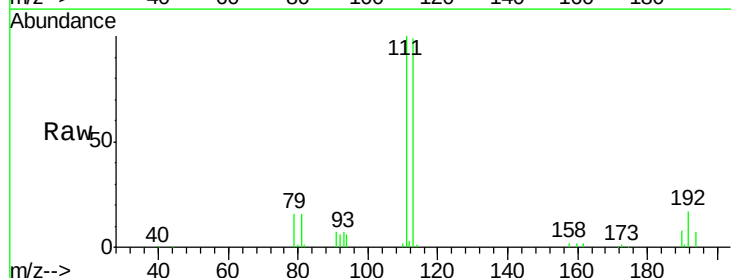
Tgt Ion:113 Resp: 248587

Ion Ratio Lower Upper

113 100

111 101.3 78.5 117.7

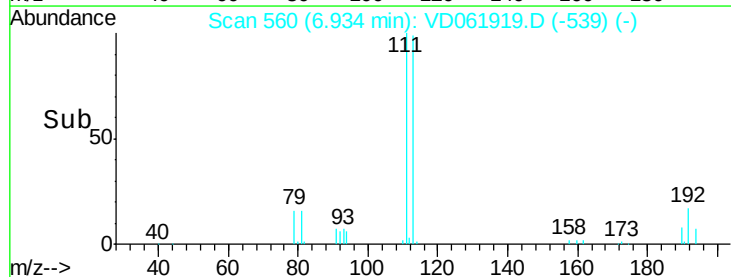
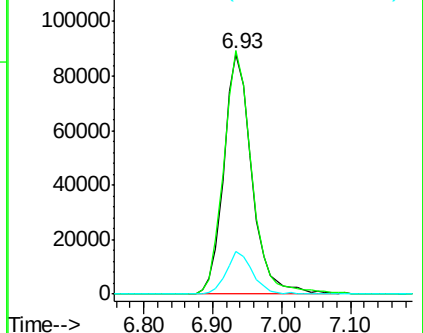
192 17.5 13.0 19.4

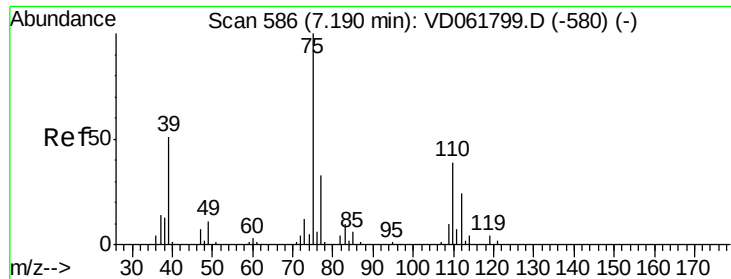


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

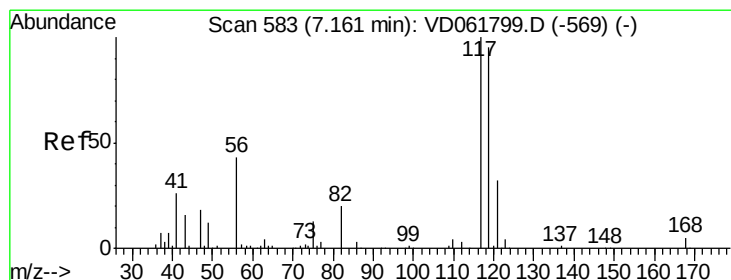
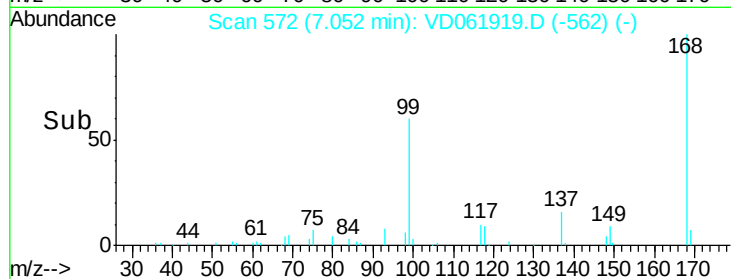
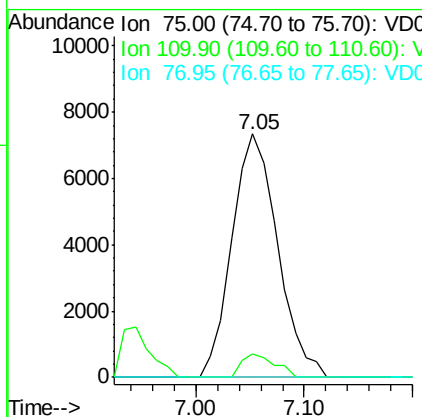
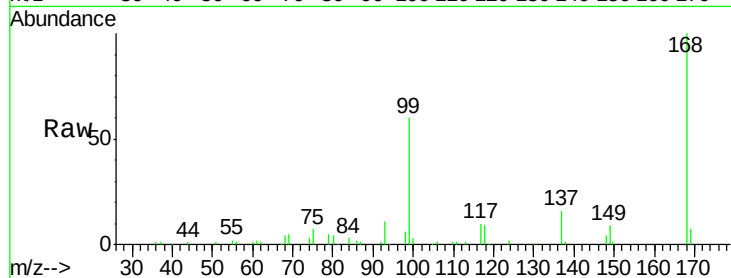




#36
 1,1-Dichloropropene
 Concen: 5.675 ug/l
 RT: 7.05 min Scan# 572
 Delta R.T. -0.10 min
 Lab File: VD061919.D
 Acq: 19 Apr 2019 19:41

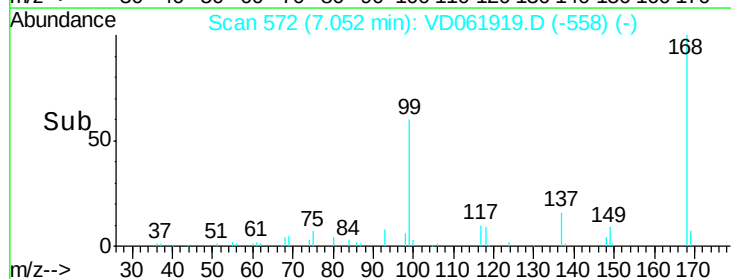
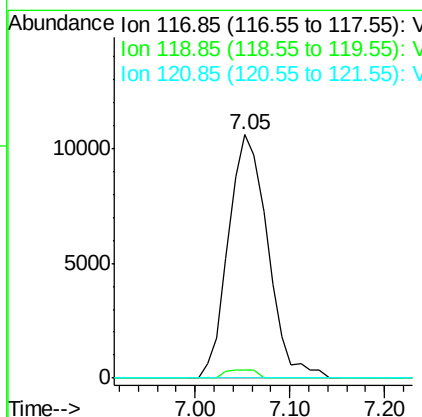
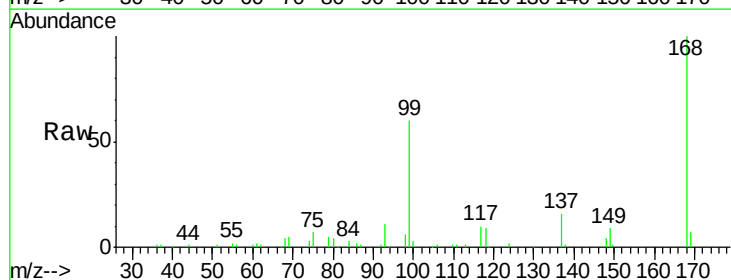
Instrument :
 MSVOA_D
 ClientSampleId :

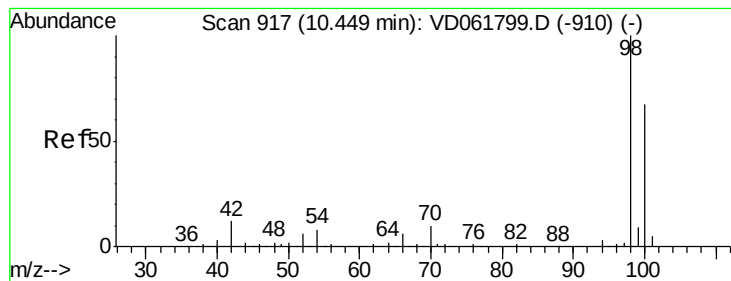
Tot Ion	75	Resp	21504
Ion Ratio	Lower	Upper	
75	100		
110	9.8	19.1	57.1#
77	0.0	25.6	38.4#



#38
 Carbon Tetrachloride
 Concen: 6.389 ug/l
 RT: 7.05 min Scan# 572
 Delta R.T. -0.06 min
 Lab File: VD061919.D
 Acq: 19 Apr 2019 19:41

Tgt Ion	117	Resp	30573
Ion Ratio	Lower	Upper	
117	100		
119	3.1	75.8	113.8#
121	0.0	25.9	38.9#





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.42 min Scan# 914

Delta R.T. 0.01 min

Lab File: VD061919.D

Acq: 19 Apr 2019 19:41

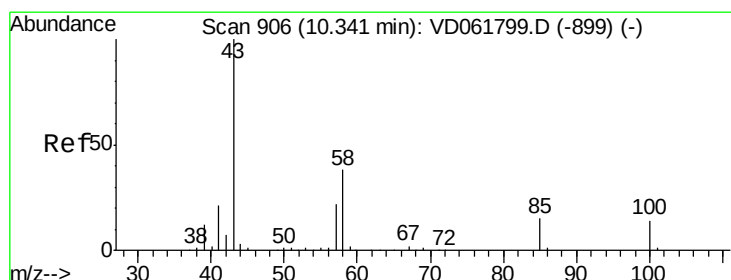
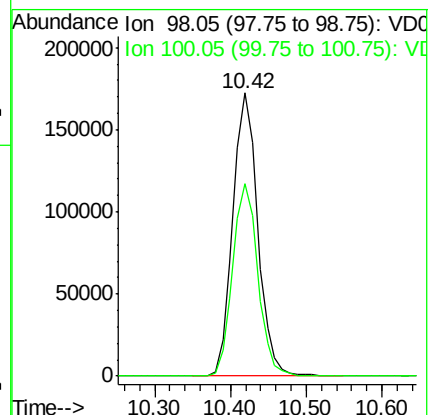
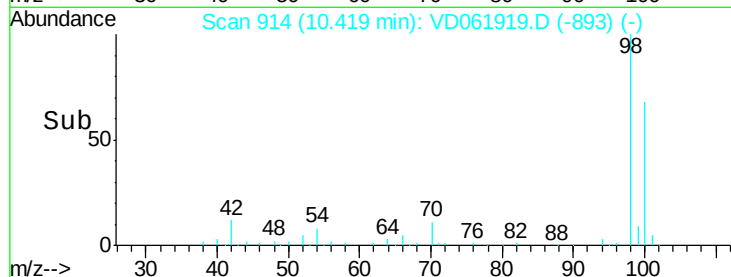
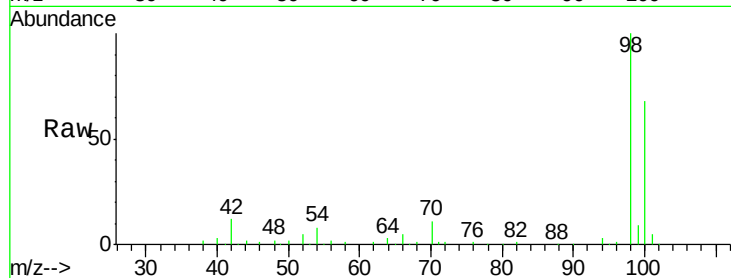
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 391900

Ion Ratio Lower Upper

98 100

100 68.1 53.8 80.8



#51

4-Methyl-2-Pentanone

Concen: 1.181 ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.11 min

Lab File: VD061919.D

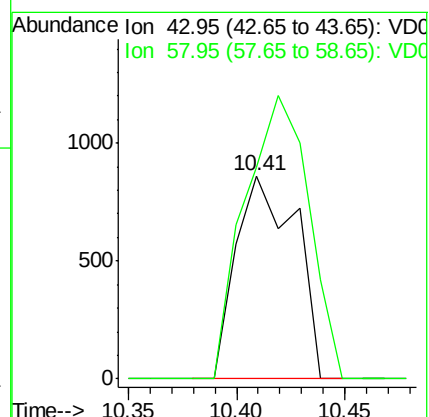
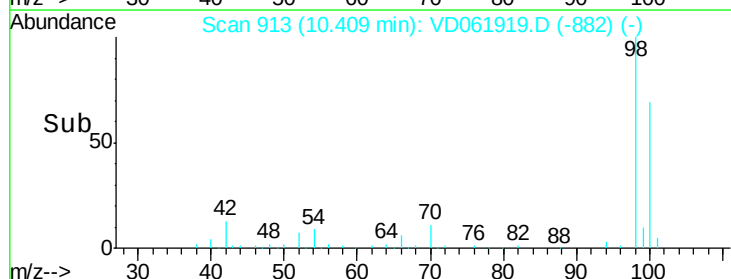
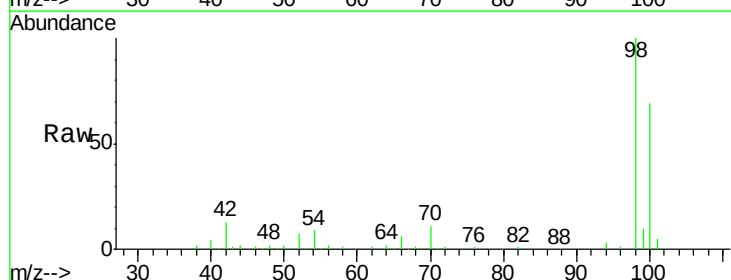
Acq: 19 Apr 2019 19:41

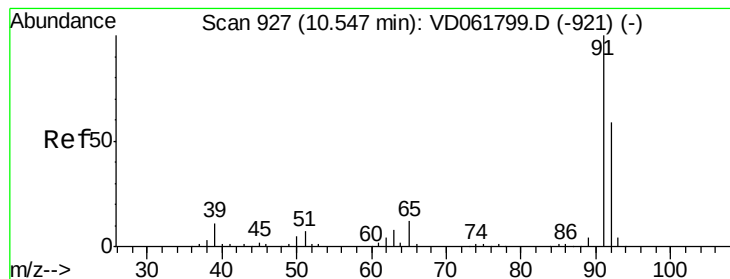
Tgt Ion: 43 Resp: 1649

Ion Ratio Lower Upper

43 100

58 104.2 30.4 45.6#





#52

Toluene

Concen: 5.195 ug/l

RT: 10.52 min Scan# 924

Delta R.T. 0.01 min

Lab File: VD061919.D

Acq: 19 Apr 2019 19:41

Instrument :

MSVOA_D

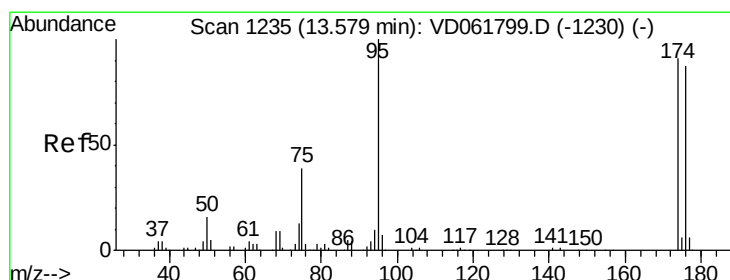
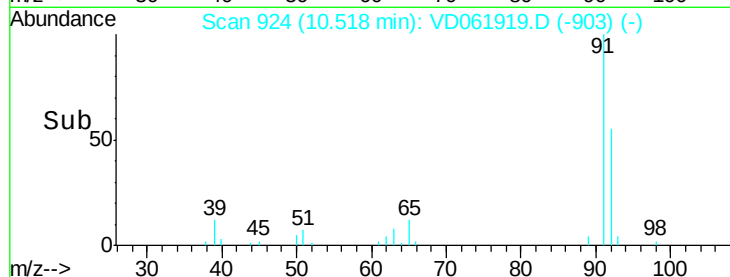
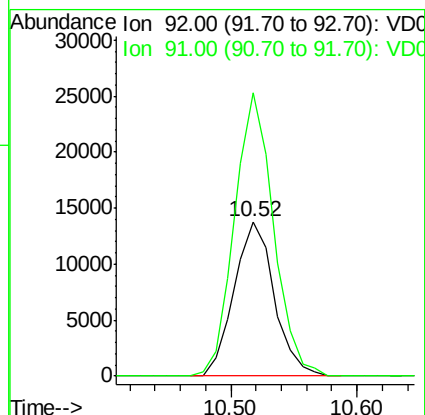
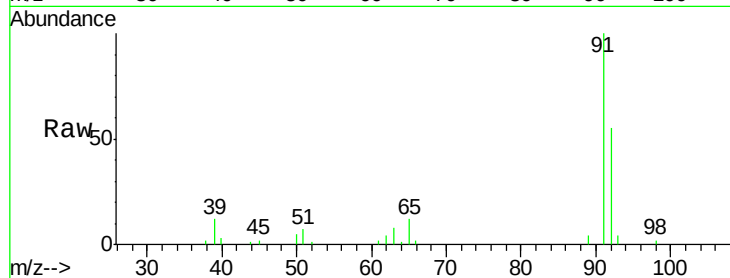
ClientSampled :

Tot Ion: 92 Resp: 30287

Ion Ratio Lower Upper

92 100

91 183.0 136.6 204.8



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.00 min

Lab File: VD061919.D

Acq: 19 Apr 2019 19:41

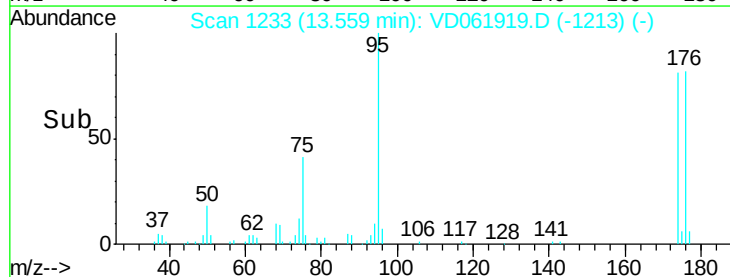
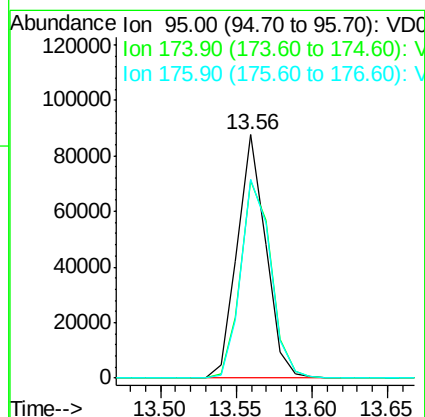
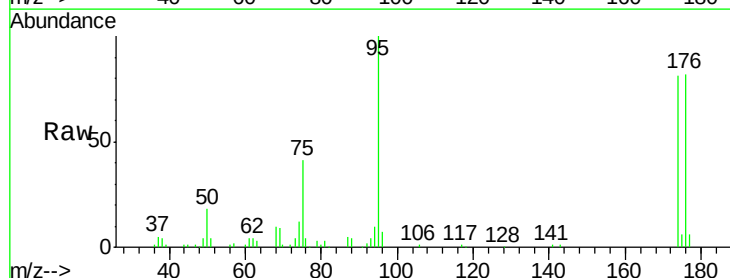
Tgt Ion: 95 Resp: 114676

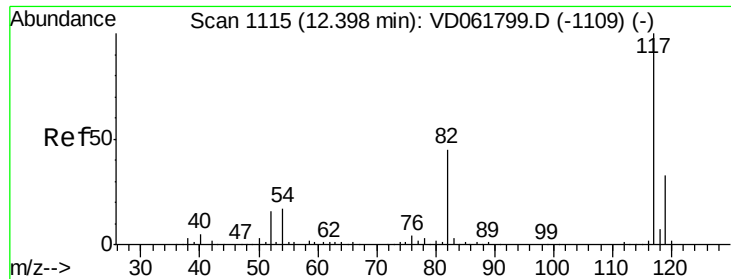
Ion Ratio Lower Upper

95 100

174 81.3 0.0 181.8

176 81.6 0.0 174.4

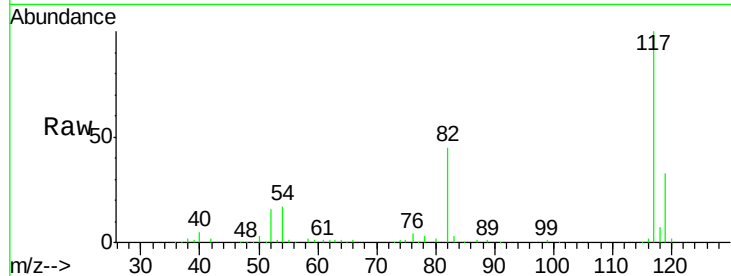




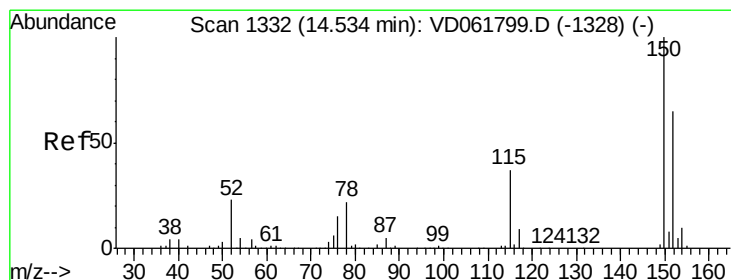
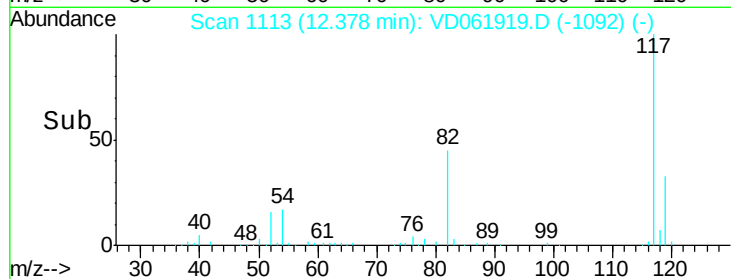
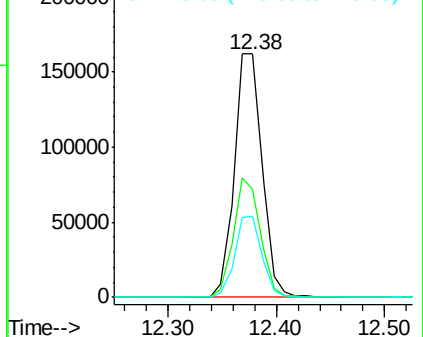
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.01 min
Lab File: VD061919.D
Acq: 19 Apr 2019 19:41

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 289815
Ion Ratio Lower Upper
117 100
82 44.6 36.2 54.2
119 33.4 26.2 39.4

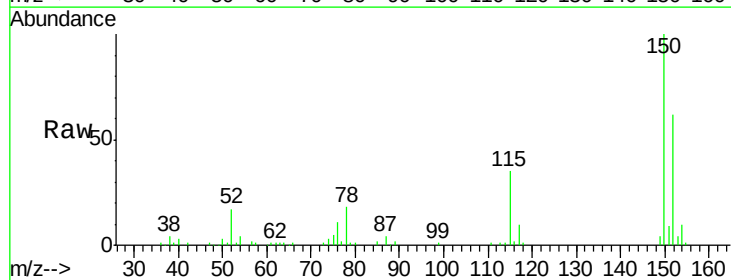


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

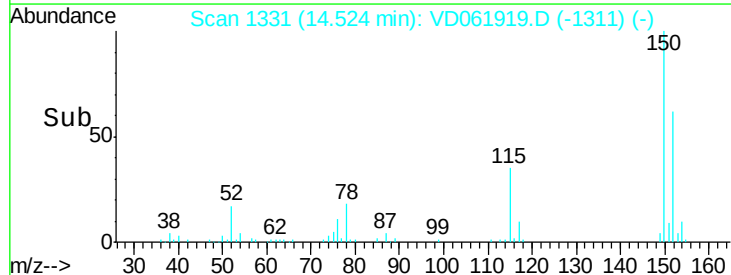
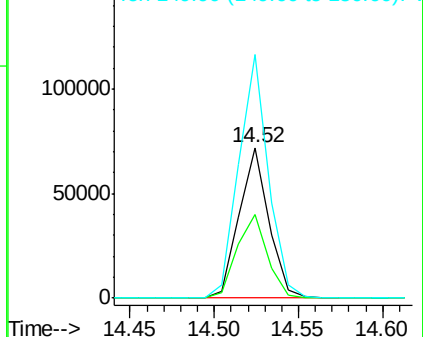


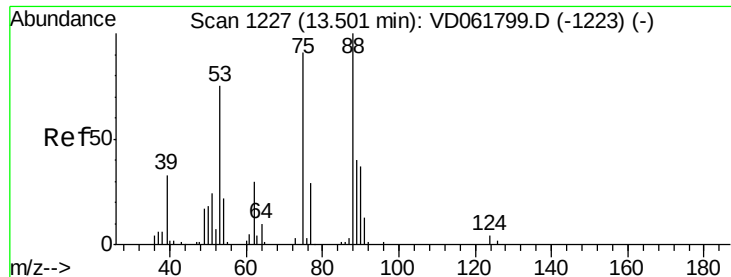
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1331
Delta R.T. 0.00 min
Lab File: VD061919.D
Acq: 19 Apr 2019 19:41

Tgt Ion:152 Resp: 88009
Ion Ratio Lower Upper
152 100
115 55.9 30.9 92.7
150 161.7 0.0 314.8



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: 115.473 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD061919.D

Acq: 19 Apr 2019 19:41

Instrument :

MSVOA_D

ClientSampleId :

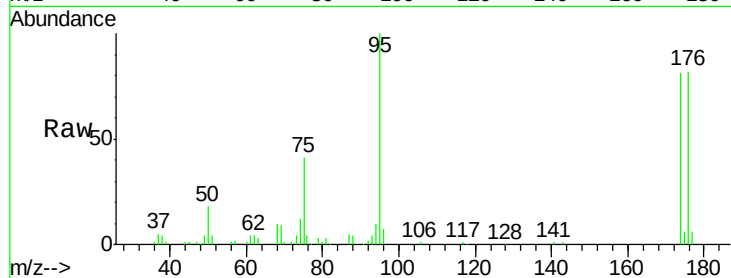
Tot Ion: 75 Resp: 45004

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

89 0.0 35.0 52.6#



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

