

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041019\
 Data File : VD061714.D
 Acq On : 10 Apr 2019 15:46
 Operator : VA/AP
 Sample : K2316-02RE
 Misc : 5.04g/5ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 11 01:06:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D040619S.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 08 10:04:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.08	168	45505	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	8.25	114	82671	50.00	ug/l	0.04
63) Chlorobenzene-d5	12.40	117	72374	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	14.54	152	24555	50.00	ug/l	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.48	65	33862	98.17	ug/l	0.02
Spiked Amount				50.000		
			Recovery	=	196.34%	
35) Dibromofluoromethane	6.95	113	38432	67.10	ug/l	0.03
Spiked Amount				50.000		
			Recovery	=	134.20%	
50) Toluene-d8	10.44	98	70717	49.15	ug/l	0.03
Spiked Amount				50.000		
			Recovery	=	98.30%	
62) 4-Bromofluorobenzene	13.58	95	25461	50.43	ug/l	0.03
Spiked Amount				50.000		
			Recovery	=	100.86%	

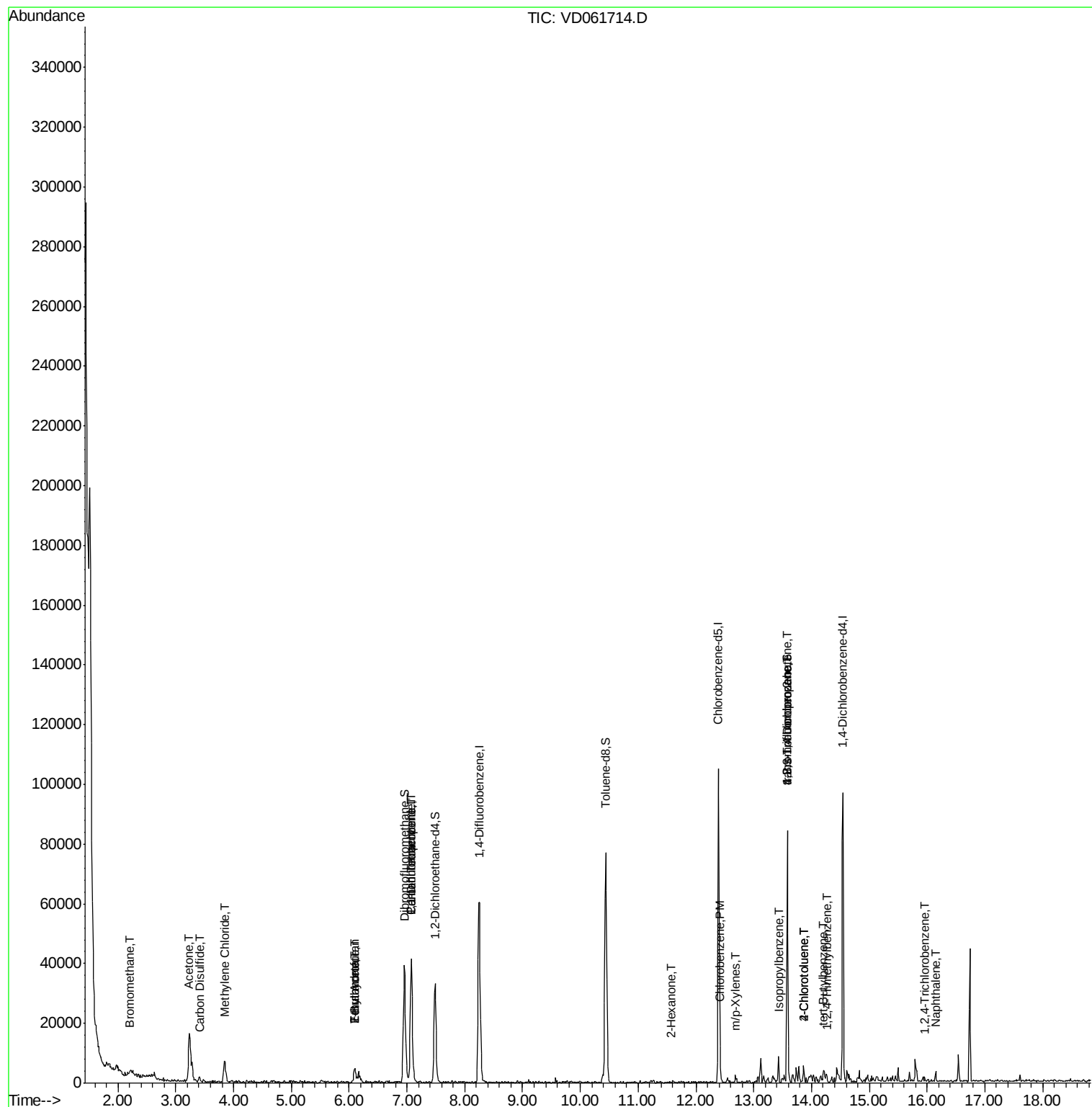
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.19	94	264	3.077	ug/l #	12
16) Acetone	3.23	43	34299	332.646	ug/l	95
17) Carbon Disulfide	3.41	76	1677	1.088	ug/l #	74
20) Methylene Chloride	3.84	84	5551	9.487	ug/l	90
25) 2-Butanone	6.10	43	11768	99.001	ug/l #	76
29) Tetrahydrofuran	6.09	42	218	3.799	ug/l #	1
36) 1,1-Dichloropropene	7.07	75	2568	3.549	ug/l #	39
37) Ethyl Acetate	6.10	43	11768	39.932	ug/l #	68
38) Carbon Tetrachloride	7.08	117	3905	4.605	ug/l #	11
59) 2-Hexanone	11.57	43	229	1.167	ug/l #	27
65) Chlorobenzene	12.43	112	1540	1.073	ug/l	98
68) m/p-Xylenes	12.68	106	861	1.022	ug/l	89
73) Isopropylbenzene	13.43	105	6575	4.019	ug/l	100
76) 1,2,3-Trichloropropane	13.58	75	10824	32.400	ug/l #	43
79) 2-Chlorotoluene	13.86	91	4015	3.587	ug/l	95
81) trans-1,4-Dichloro-2-buten	13.58	75	10822	106.752	ug/l #	20
82) 4-Chlorotoluene	13.86	91	4015	3.274	ug/l	98
83) tert-Butylbenzene	14.21	119	2253	1.439	ug/l	70
84) 1,2,4-Trimethylbenzene	14.26	105	1464	1.117	ug/l	90
93) 1,2,4-Trichlorobenzene	15.97	180	527	1.536	ug/l #	78
95) Naphthalene	16.15	128	3427	6.311	ug/l #	70

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

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Quant Title : SW846 8260
QLast Update : Mon Apr 08 10:04:03 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.08 min Scan# 575

Delta R.T. 0.04 min

Lab File: VD061714.D

Acq: 10 Apr 2019 15:46

Instrument :

MSVOA_D

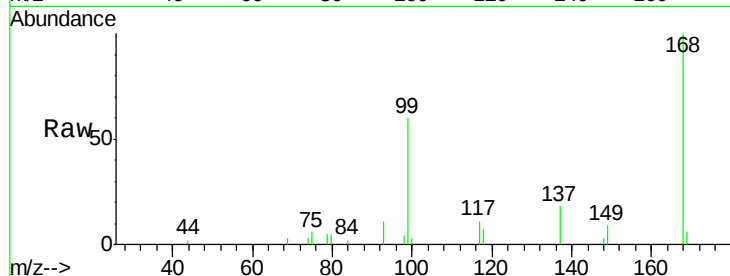
ClientSampleId :

Tot Ion:168 Resp: 45505

Ion Ratio Lower Upper

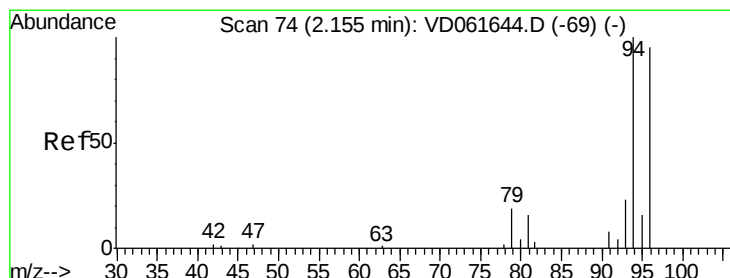
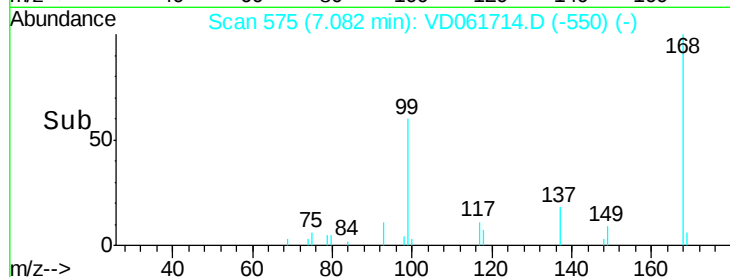
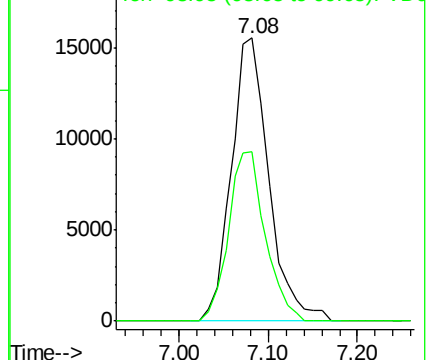
168 100

99 59.9 46.8 70.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 3.077 ug/l

RT: 2.19 min Scan# 78

Delta R.T. 0.03 min

Lab File: VD061714.D

Acq: 10 Apr 2019 15:46

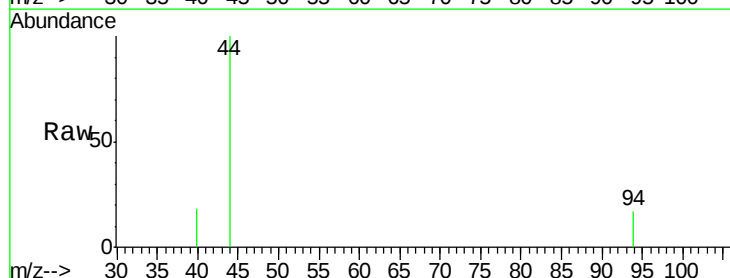
Tgt Ion: 94 Resp: 264

Ion Ratio Lower Upper

94 100

96 0.0 75.8 113.8#

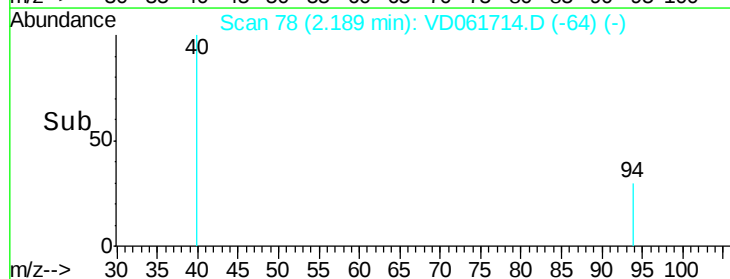
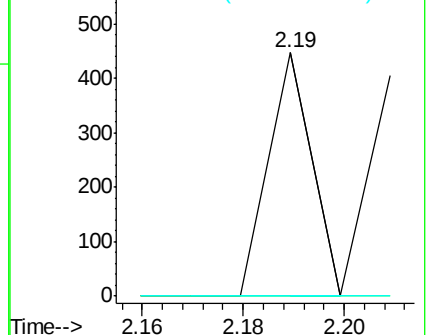
93 0.0 18.6 28.0#



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

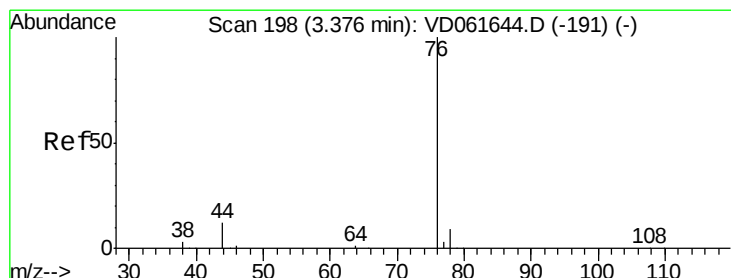
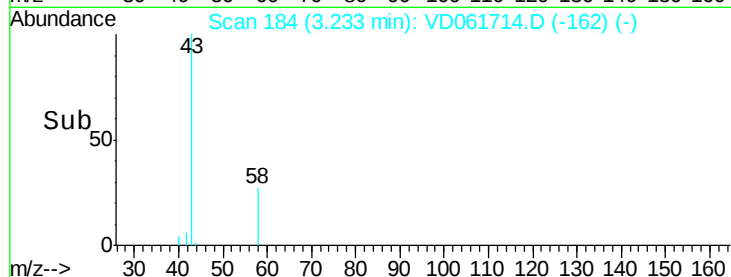
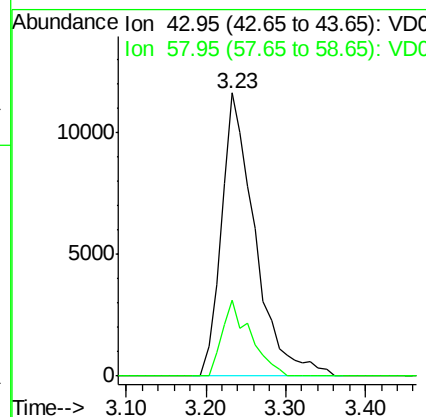
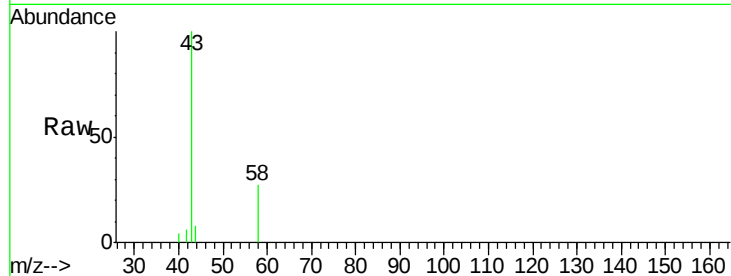




#16
Acetone
Concen: 332.646 ug/l
RT: 3.23 min Scan# 184
Delta R.T. 0.01 min
Lab File: VD061714.D
Acq: 10 Apr 2019 15:46

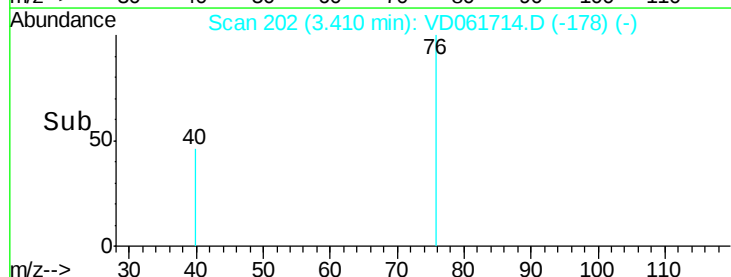
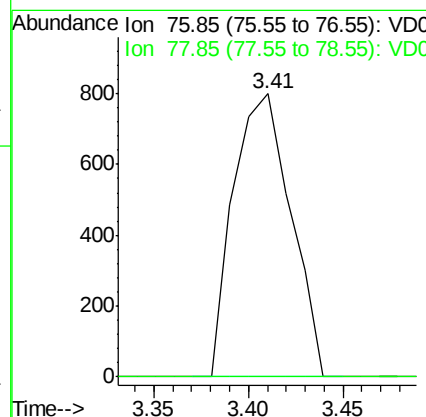
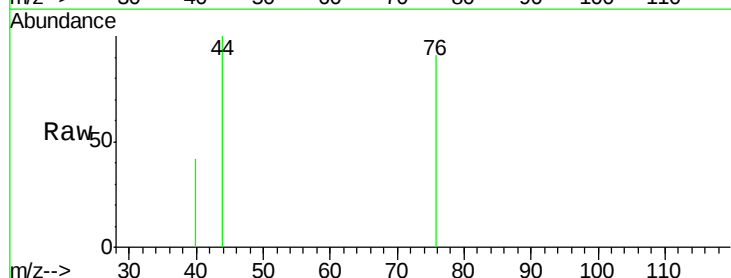
Instrument :
MSVOA_D
ClientSampleId :

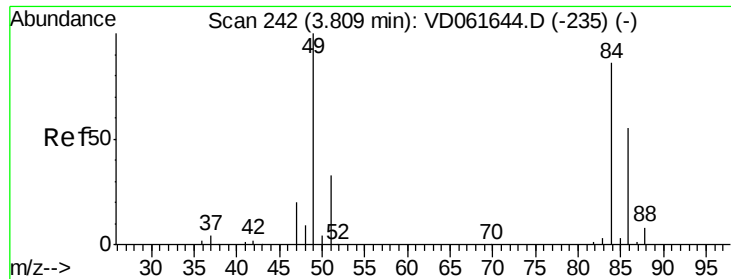
Tot Ion: 43 Resp: 34299
Ion Ratio Lower Upper
43 100
58 27.1 19.7 29.5



#17
Carbon Disulfide
Concen: 1.088 ug/l
RT: 3.41 min Scan# 202
Delta R.T. 0.03 min
Lab File: VD061714.D
Acq: 10 Apr 2019 15:46

Tgt Ion: 76 Resp: 1677
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.2#

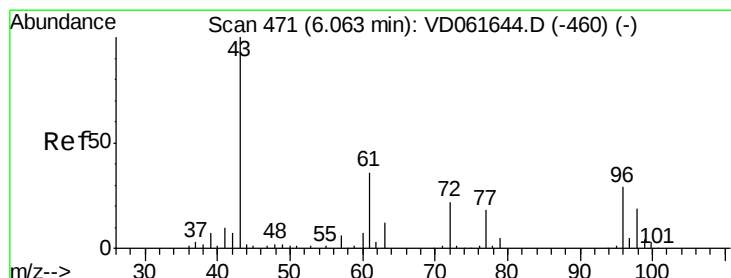
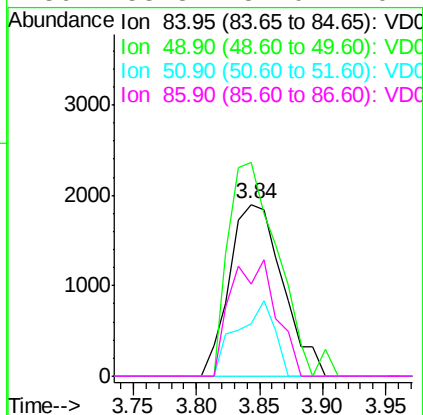
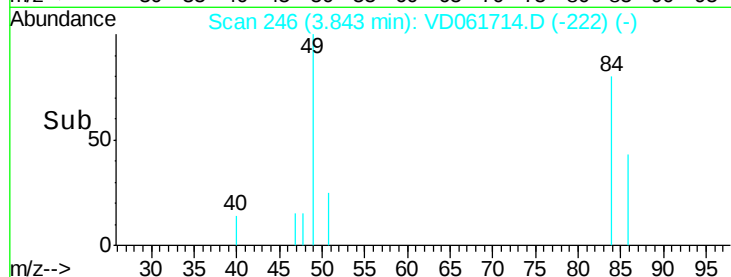
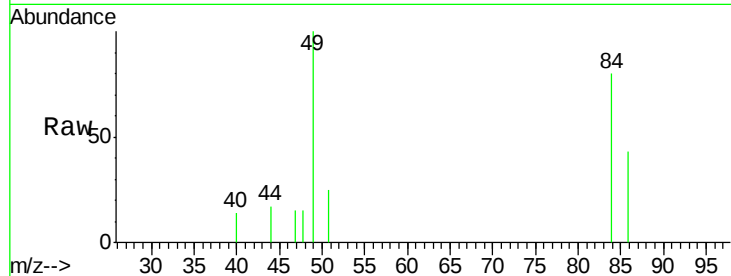




#20
Methylene Chloride
Concen: 9.487 ug/l
RT: 3.84 min Scan# 246
Delta R.T. 0.04 min
Lab File: VD061714.D
Acq: 10 Apr 2019 15:46

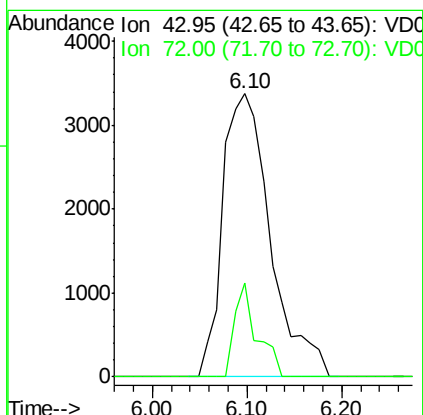
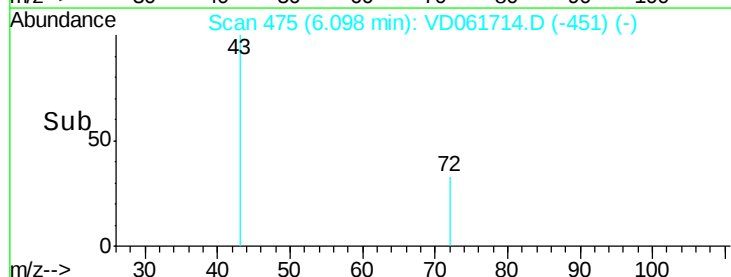
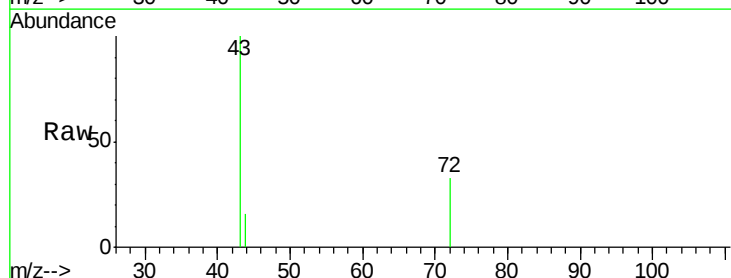
Instrument :
MSVOA_D
ClientSampled :

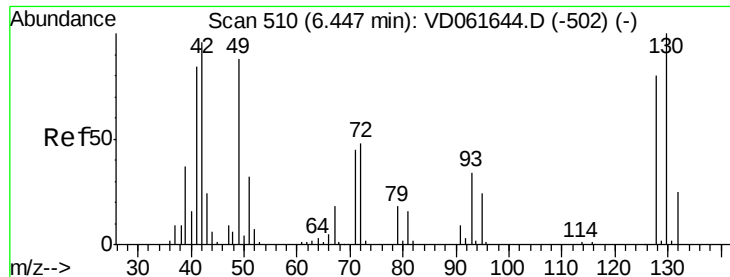
Tot Ion: 84 Resp: 5551
Ion Ratio Lower Upper
84 100
49 124.4 93.0 139.4
51 30.6 30.4 45.6
86 53.3 51.0 76.4



#25
2-Butanone
Concen: 99.001 ug/l
RT: 6.10 min Scan# 475
Delta R.T. 0.03 min
Lab File: VD061714.D
Acq: 10 Apr 2019 15:46

Tgt Ion: 43 Resp: 11768
Ion Ratio Lower Upper
43 100
72 33.4 17.4 26.2#

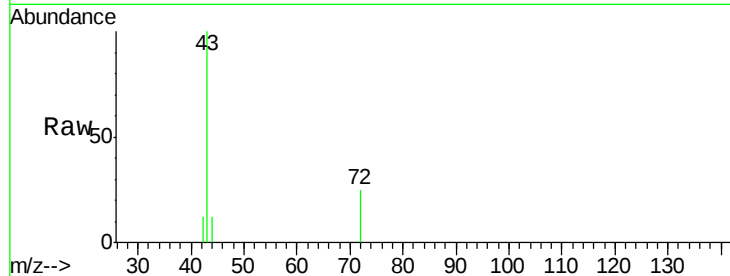




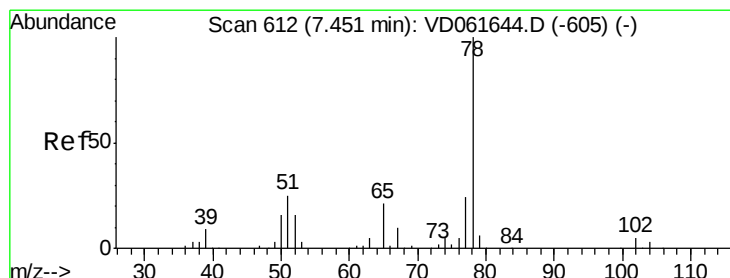
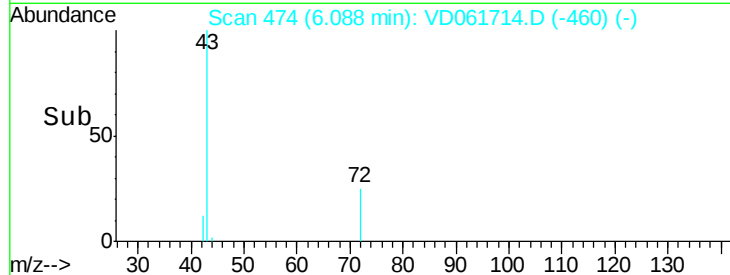
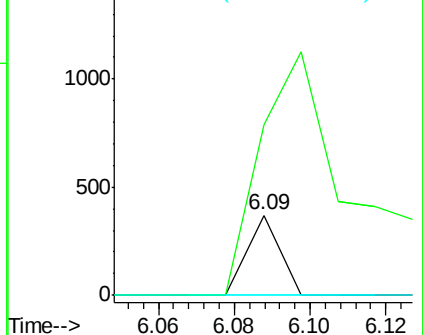
#29
Tetrahydrofuran
Concen: 3.799 ug/l
RT: 6.09 min Scan# 474
Delta R.T. -0.36 min
Lab File: VD061714.D
Acq: 10 Apr 2019 15:46

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 42 Resp: 218
Ion Ratio Lower Upper
42 100
72 844.0 37.0 55.6#
71 0.0 36.5 54.7#

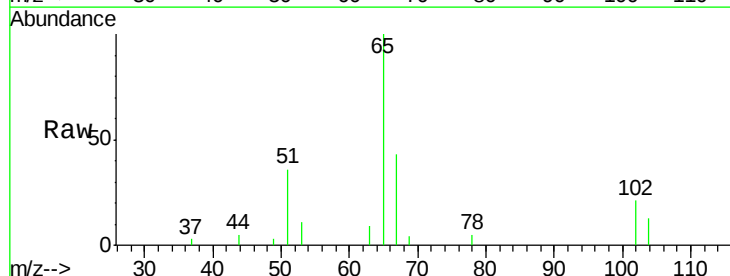


Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC

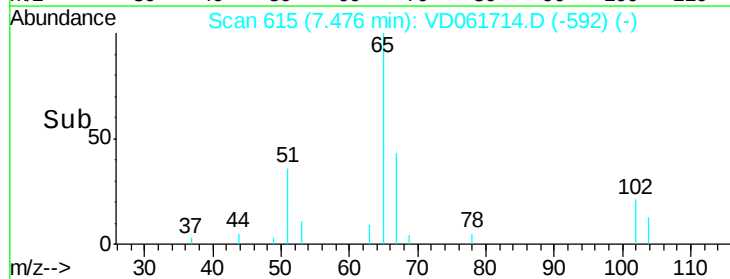
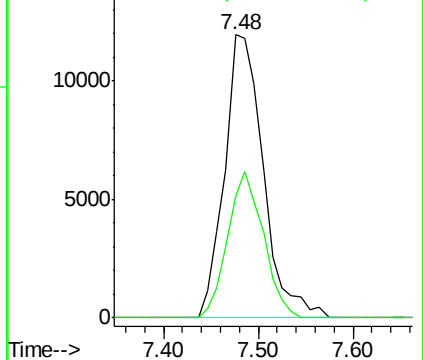


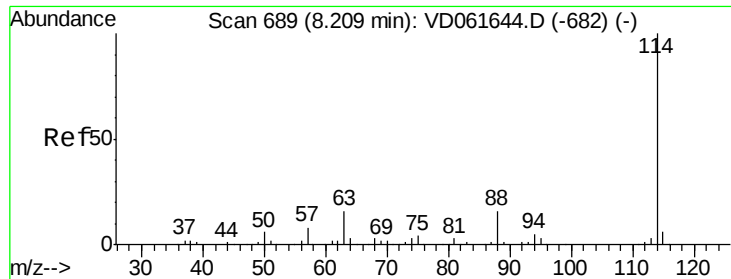
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 7.48 min Scan# 615
Delta R.T. 0.02 min
Lab File: VD061714.D
Acq: 10 Apr 2019 15:46

Tgt Ion: 65 Resp: 33862
Ion Ratio Lower Upper
65 100
67 43.2 0.0 99.4



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

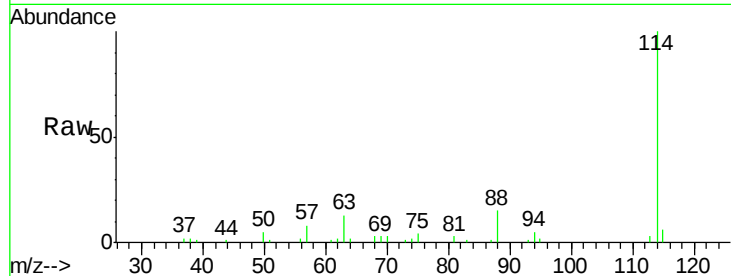




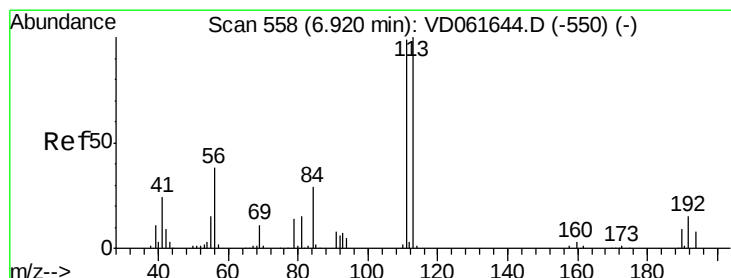
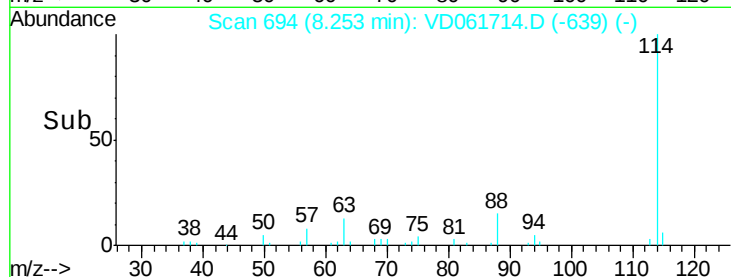
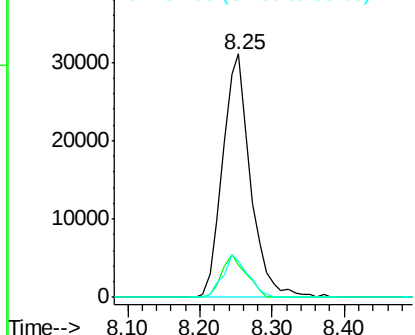
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.25 min Scan# 694
 Delta R.T. 0.04 min
 Lab File: VD061714.D
 Acq: 10 Apr 2019 15:46

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:114 Resp: 82671
 Ion Ratio Lower Upper
 114 100
 63 13.3 0.0 31.2
 88 14.8 0.0 31.8

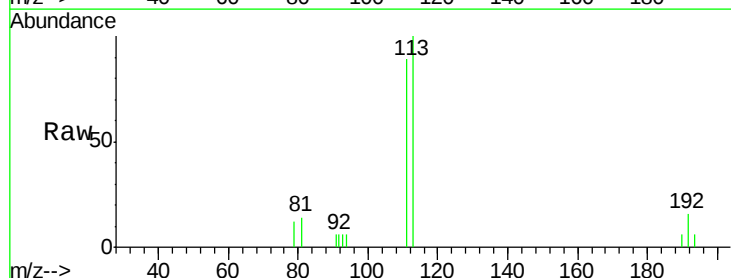


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

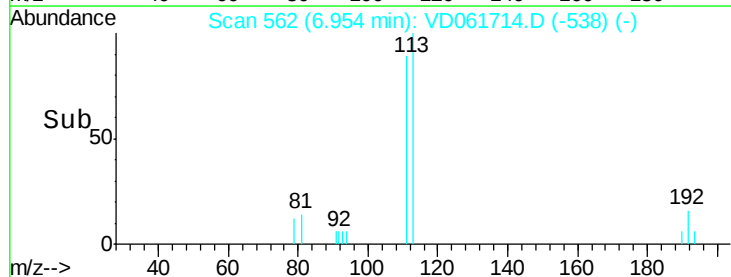
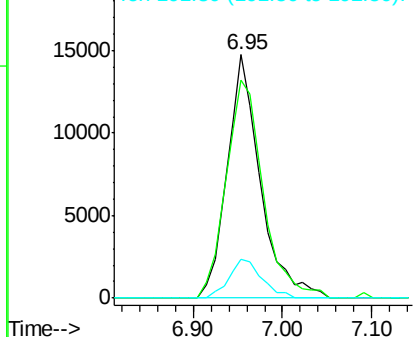


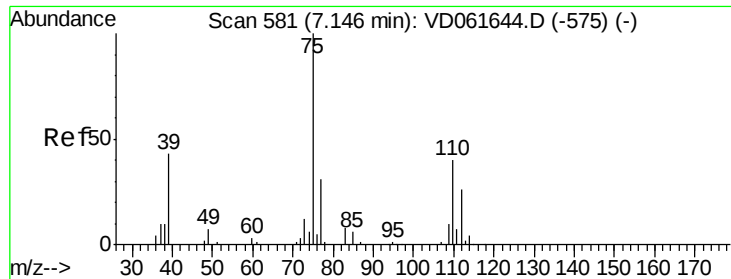
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.95 min Scan# 562
 Delta R.T. 0.03 min
 Lab File: VD061714.D
 Acq: 10 Apr 2019 15:46

Tgt Ion:113 Resp: 38432
 Ion Ratio Lower Upper
 113 100
 111 89.4 79.3 118.9
 192 15.8 12.3 18.5



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: 3.549 ug/l

RT: 7.07 min Scan# 574

Delta R.T. -0.07 min

Lab File: VD061714.D

Acq: 10 Apr 2019 15:46

Instrument :

MSVOA_D

ClientSampleId :

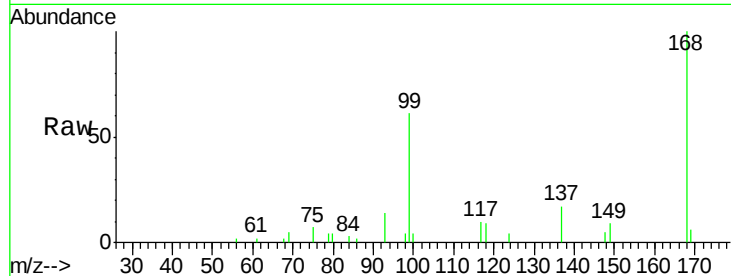
Tot Ion: 75 Resp: 2568

Ion Ratio Lower Upper

75 100

110 0.0 19.7 59.0#

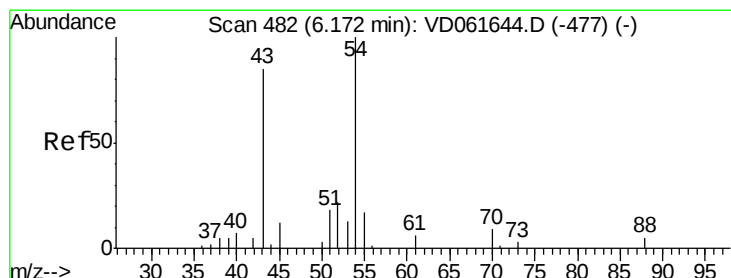
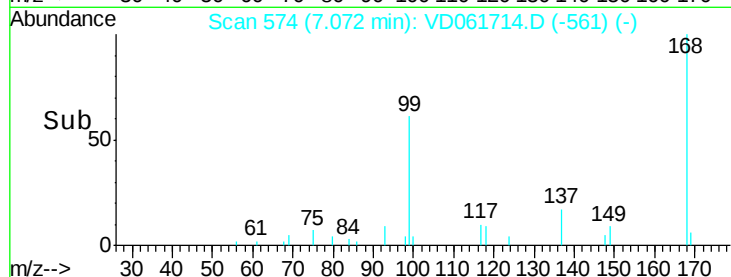
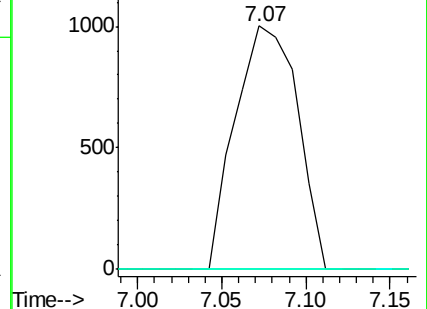
77 0.0 24.8 37.2#



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: 39.932 ug/l

RT: 6.10 min Scan# 475

Delta R.T. -0.07 min

Lab File: VD061714.D

Acq: 10 Apr 2019 15:46

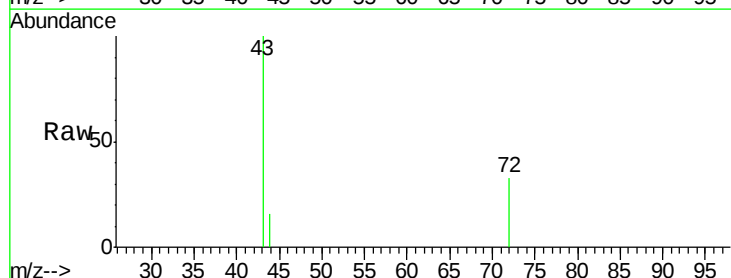
Tgt Ion: 43 Resp: 11768

Ion Ratio Lower Upper

43 100

61 0.0 11.9 17.9#

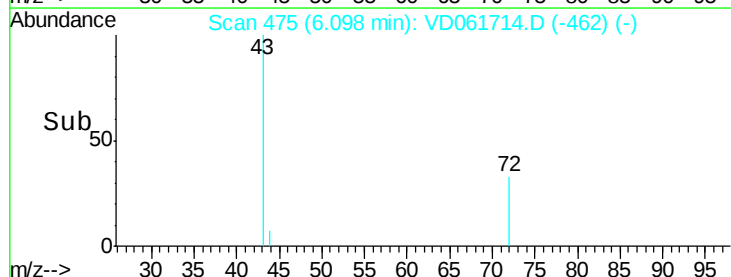
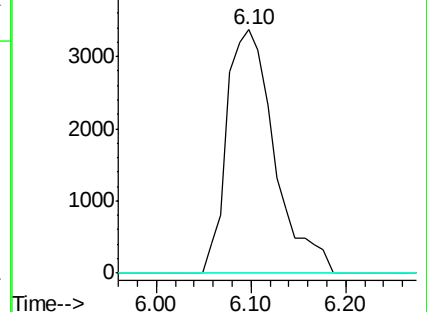
70 0.0 6.9 10.3#

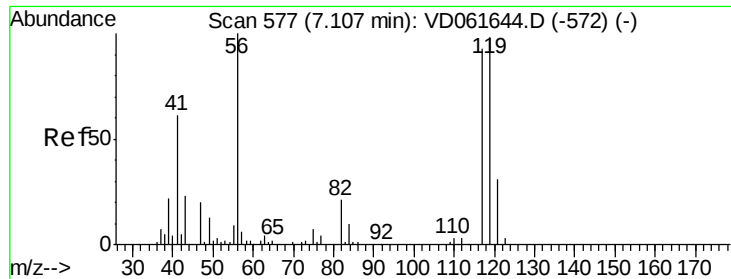


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

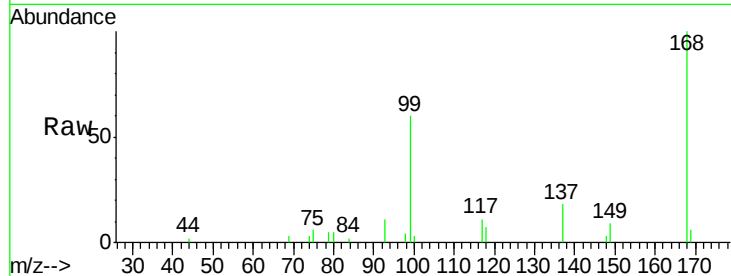




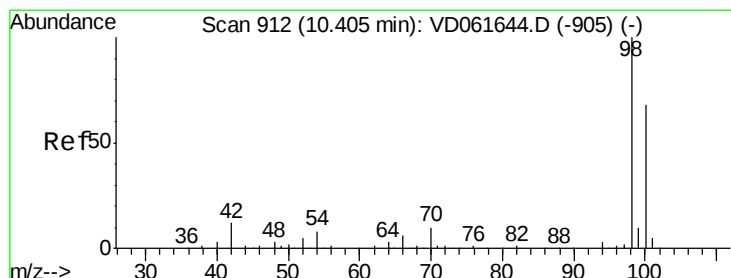
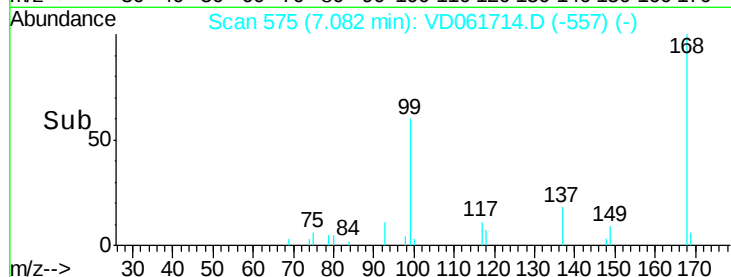
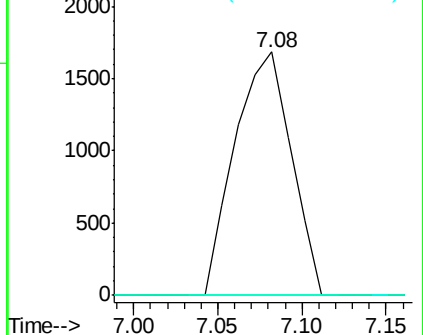
#38
Carbon Tetrachloride
Concen: 4.605 ug/l
RT: 7.08 min Scan# 575
Delta R.T. -0.02 min
Lab File: VD061714.D
Acq: 10 Apr 2019 15:46

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 3905
Ion Ratio Lower Upper
117 100
119 0.0 77.9 116.9#
121 0.0 24.7 37.1#

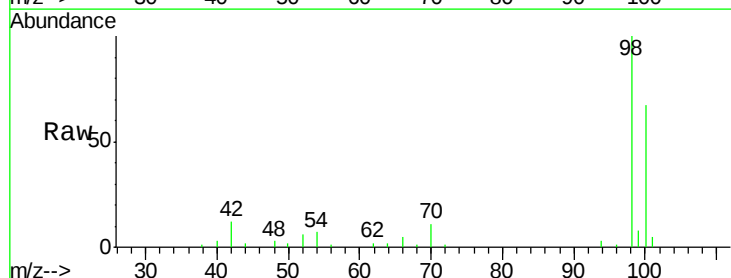


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

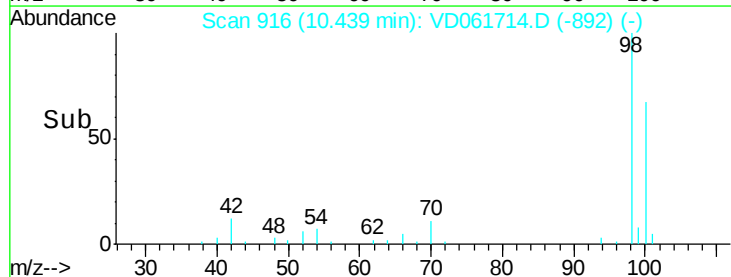
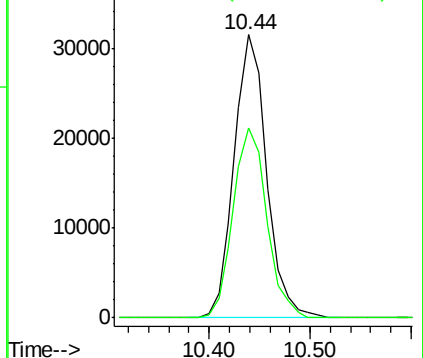


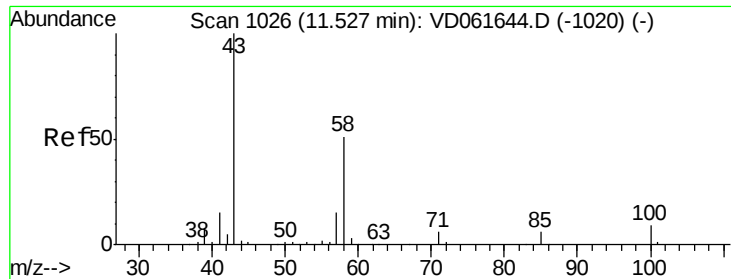
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.44 min Scan# 916
Delta R.T. 0.03 min
Lab File: VD061714.D
Acq: 10 Apr 2019 15:46

Tgt Ion: 98 Resp: 70717
Ion Ratio Lower Upper
98 100
100 67.2 55.4 83.0



Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

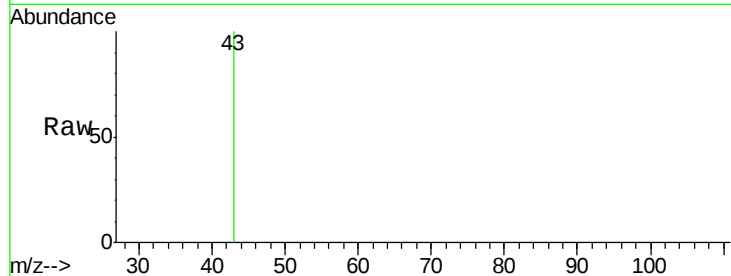




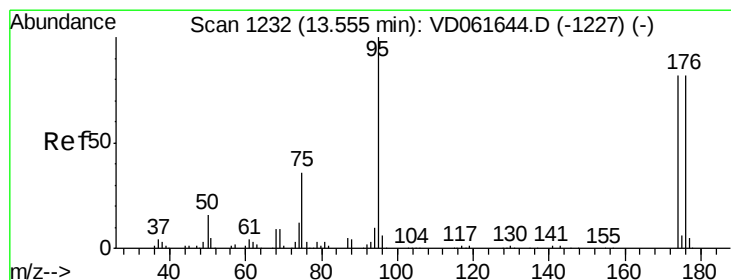
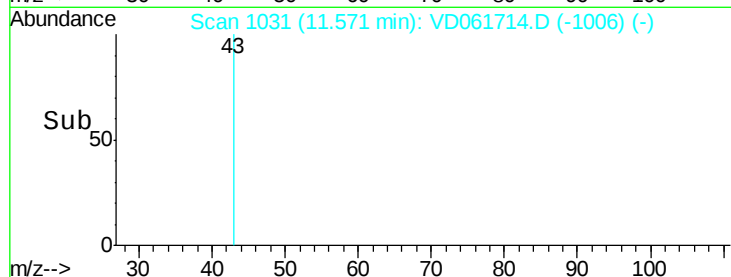
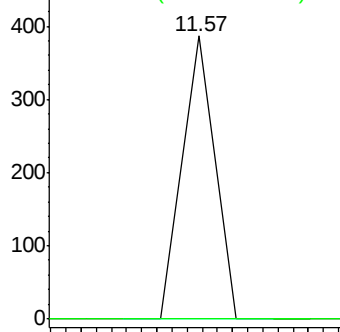
#59
2-Hexanone
Concen: 1.167 ug/l
RT: 11.57 min Scan# 1031
Delta R.T. 0.04 min
Lab File: VD061714.D
Acq: 10 Apr 2019 15:46

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 229
Ion Ratio Lower Upper
43 100
58 0.0 25.6 76.8#

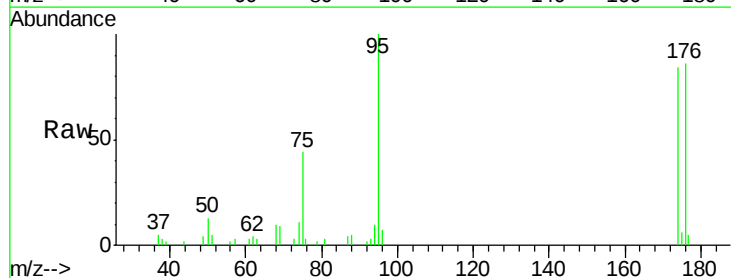


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

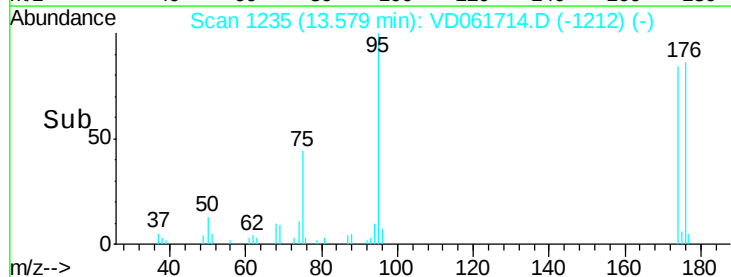
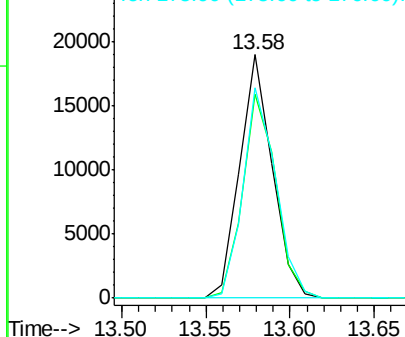


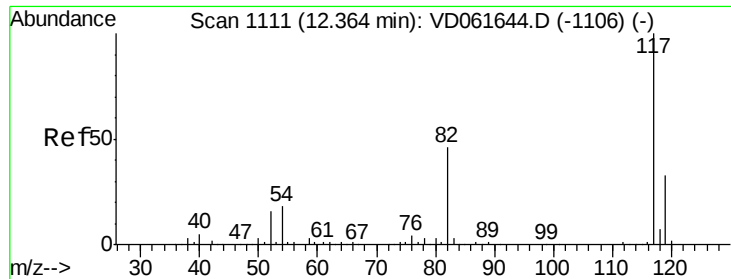
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.58 min Scan# 1235
Delta R.T. 0.03 min
Lab File: VD061714.D
Acq: 10 Apr 2019 15:46

Tgt Ion: 95 Resp: 25461
Ion Ratio Lower Upper
95 100
174 83.7 0.0 164.6
176 86.4 0.0 165.0



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

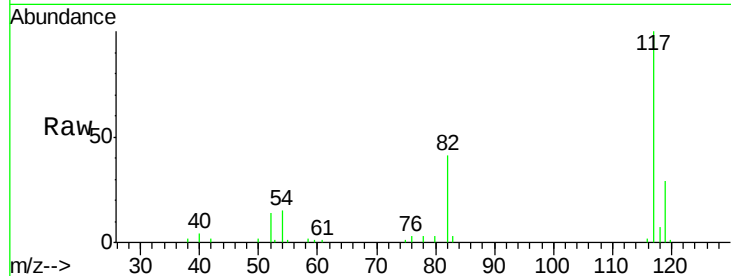




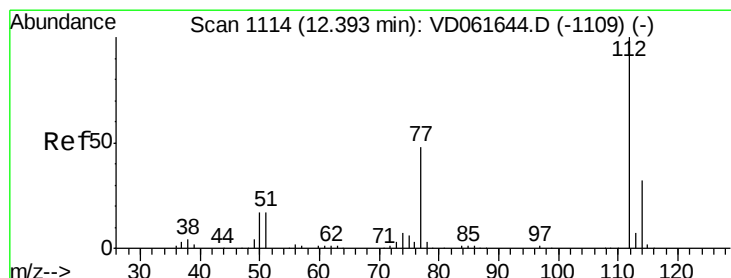
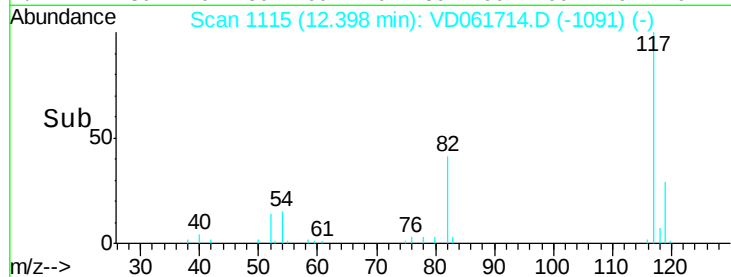
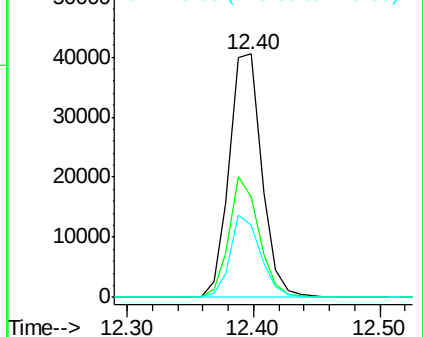
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.40 min Scan# 1115
Delta R.T. 0.03 min
Lab File: VD061714.D
Acq: 10 Apr 2019 15:46

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 72374
Ion Ratio Lower Upper
117 100
82 41.0 36.8 55.2
119 29.4 26.1 39.1

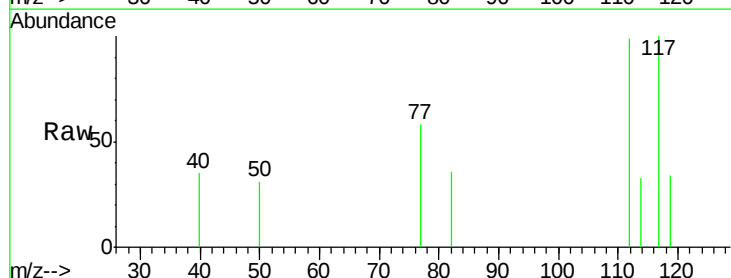


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

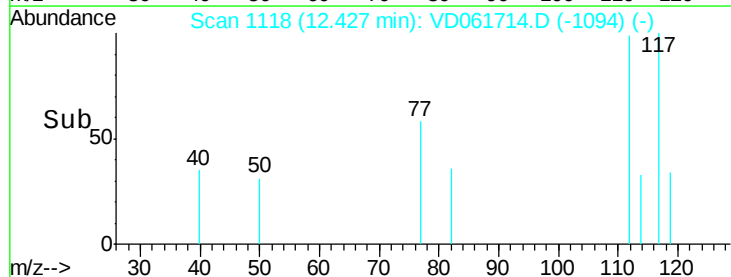
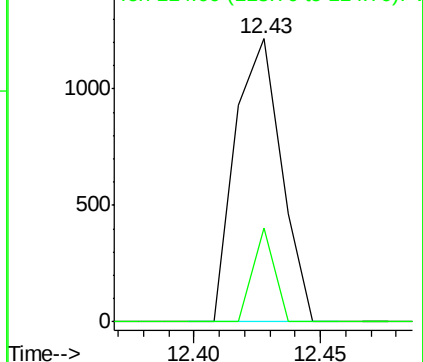


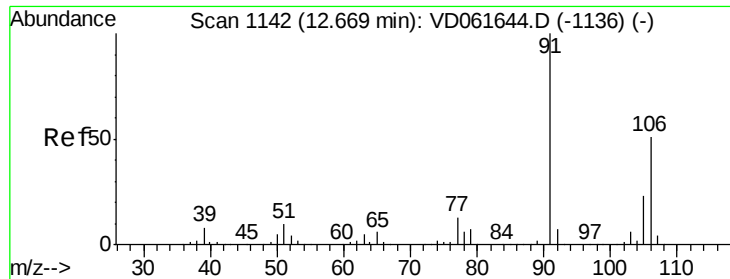
#65
Chlorobenzene
Concen: 1.073 ug/l
RT: 12.43 min Scan# 1118
Delta R.T. 0.03 min
Lab File: VD061714.D
Acq: 10 Apr 2019 15:46

Tgt Ion:112 Resp: 1540
Ion Ratio Lower Upper
112 100
114 33.3 25.6 38.4



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 114.00 (113.70 to 114.70): V

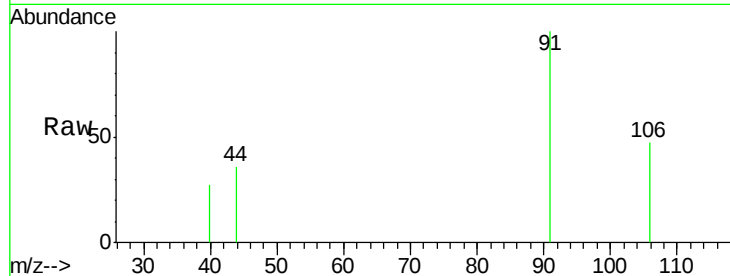




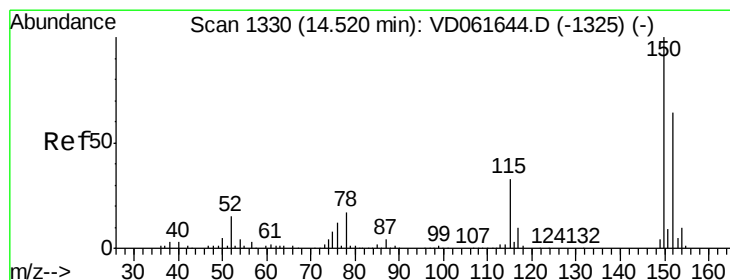
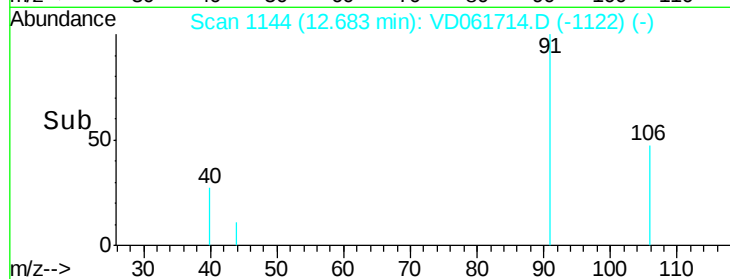
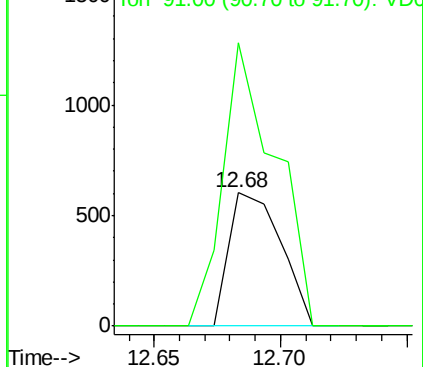
#68
m/p-Xvlenes
Concen: 1.022 ug/l
RT: 12.68 min Scan# 1144
Delta R.T. 0.01 min
Lab File: VD061714.D
Acq: 10 Apr 2019 15:46

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:106 Resp: 861
Ion Ratio Lower Upper
106 100
91 212.1 156.7 235.1

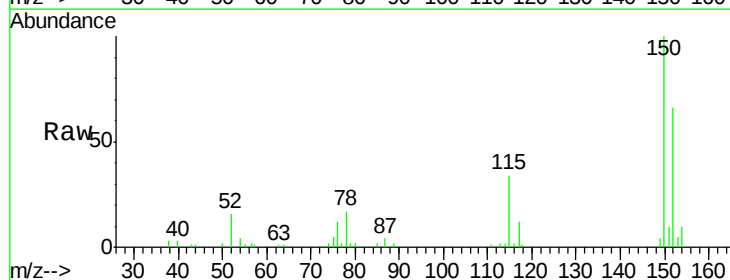


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

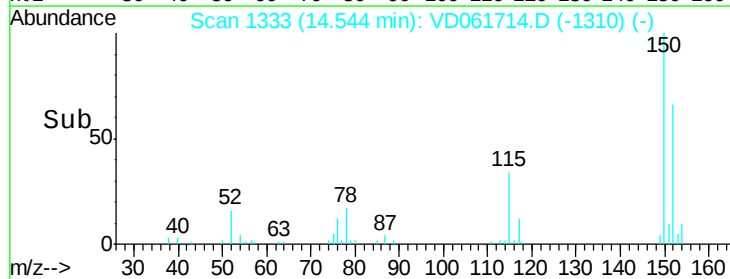
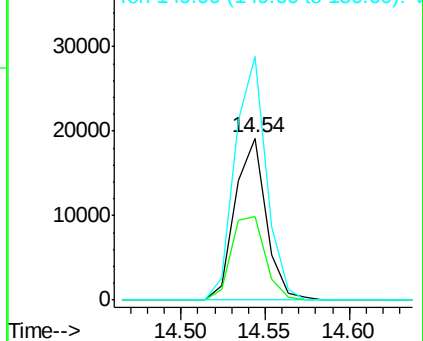


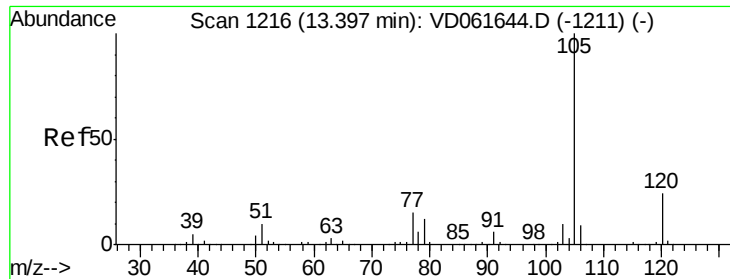
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.54 min Scan# 1333
Delta R.T. 0.02 min
Lab File: VD061714.D
Acq: 10 Apr 2019 15:46

Tgt Ion:152 Resp: 24555
Ion Ratio Lower Upper
152 100
115 51.9 26.4 79.2
150 150.6 0.0 320.6



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





#73

Isopropylbenzene

Concen: 4.019 ug/l

RT: 13.43 min Scan# 1220

Delta R.T. 0.03 min

Lab File: VD061714.D

Acq: 10 Apr 2019 15:46

Instrument :

MSVOA_D

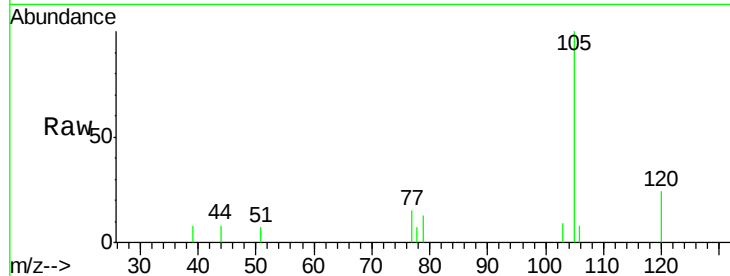
ClientSampleId :

Tot Ion: 105 Resp: 6575

Ion Ratio Lower Upper

105 100

120 24.3 12.2 36.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

13.43

4000

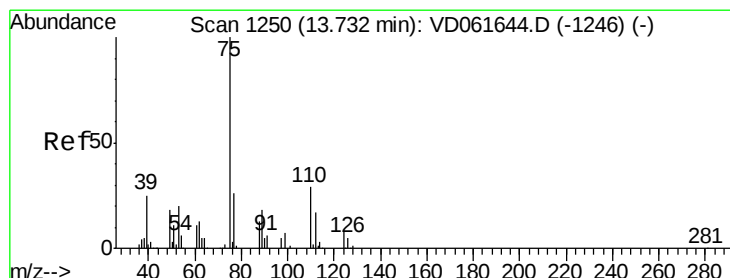
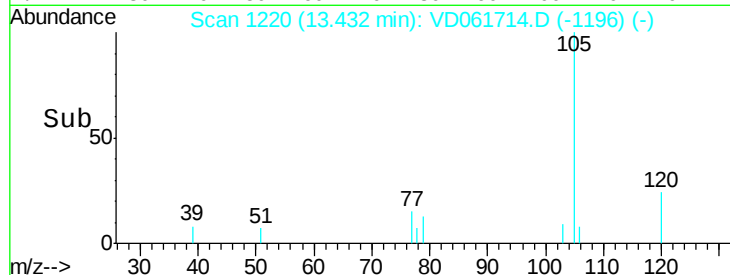
3000

2000

1000

0

Time-->



#76

1,2,3-Trichloropropane

Concen: 32.400 ug/l

RT: 13.58 min Scan# 1235

Delta R.T. -0.15 min

Lab File: VD061714.D

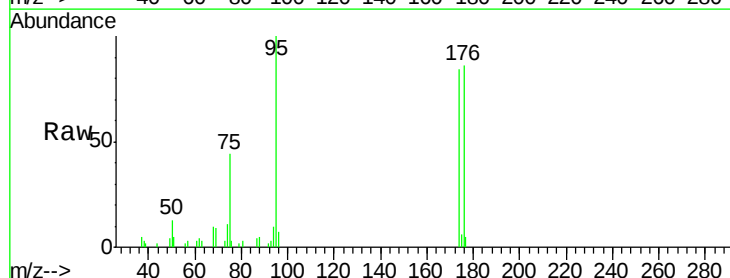
Acq: 10 Apr 2019 15:46

Tgt Ion: 75 Resp: 10824

Ion Ratio Lower Upper

75 100

77 0.0 15.7 47.1#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 76.95 (76.65 to 77.65): V

13.58

10000

8000

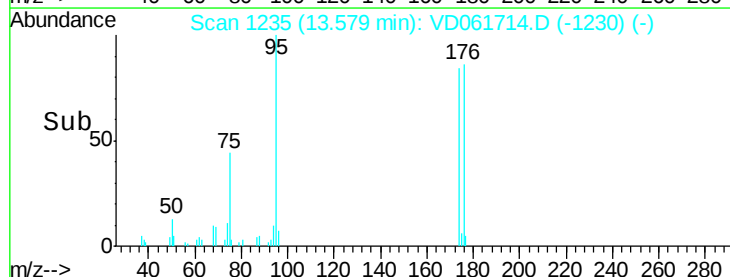
6000

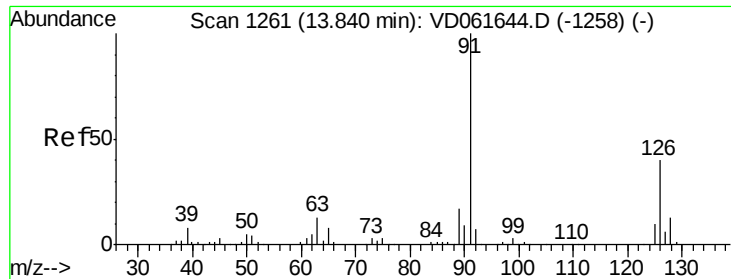
4000

2000

0

Time-->

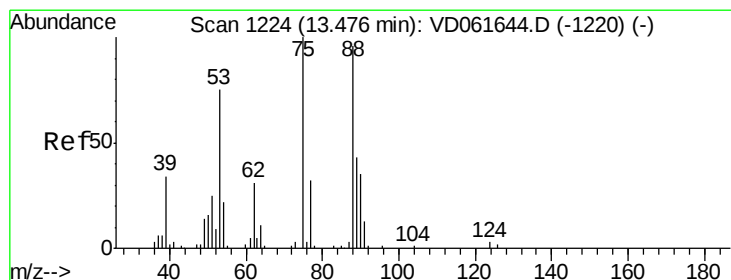
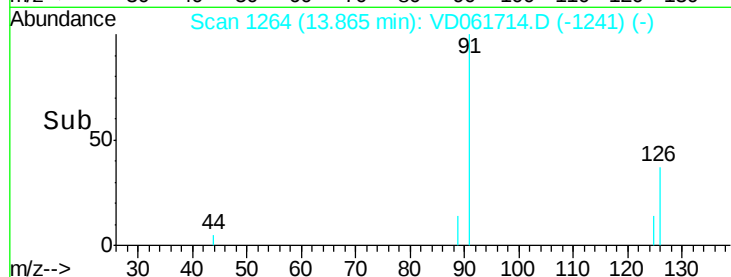
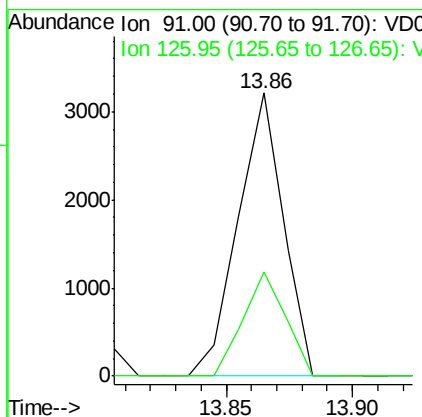
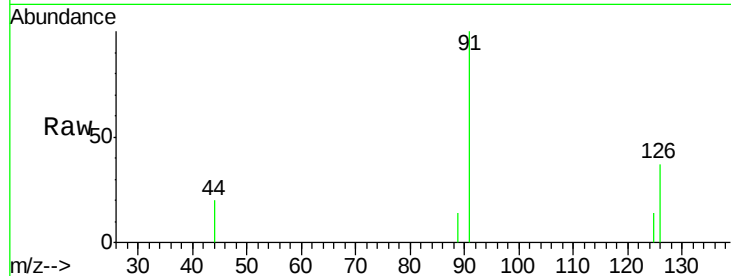




#79
2-Chlorotoluene
Concen: 3.587 ug/l
RT: 13.86 min Scan# 1264
Delta R.T. 0.02 min
Lab File: VD061714.D
Acq: 10 Apr 2019 15:46

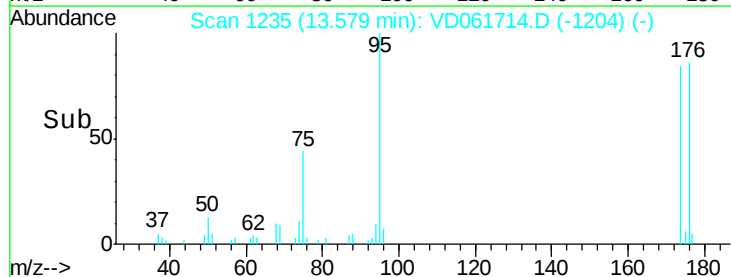
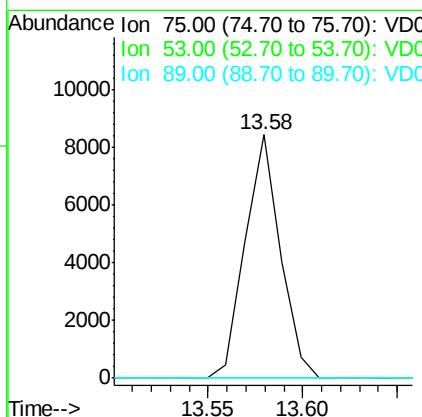
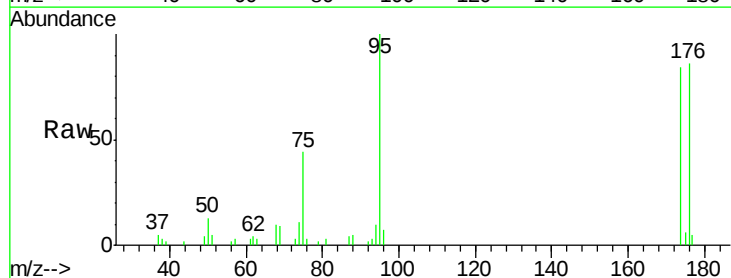
Instrument :
MSVOA_D
ClientSampleId :

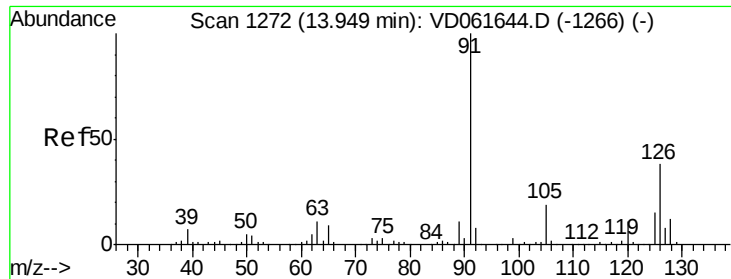
Tot Ion: 91 Resp: 4015
Ion Ratio Lower Upper
91 100
126 36.6 20.0 59.9



#81
trans-1,4-Dichloro-2-butene
Concen: 106.752 ug/l
RT: 13.58 min Scan# 1235
Delta R.T. 0.10 min
Lab File: VD061714.D
Acq: 10 Apr 2019 15:46

Tgt Ion: 75 Resp: 10822
Ion Ratio Lower Upper
75 100
53 0.0 60.2 90.2#
89 0.0 34.2 51.2#

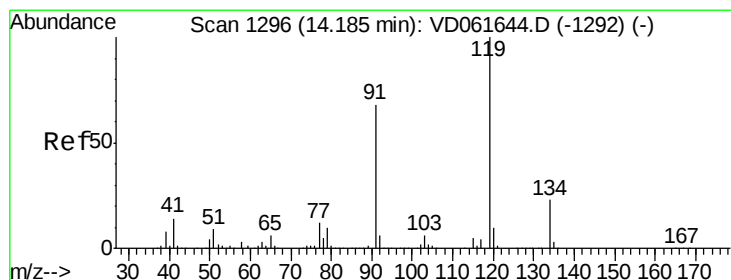
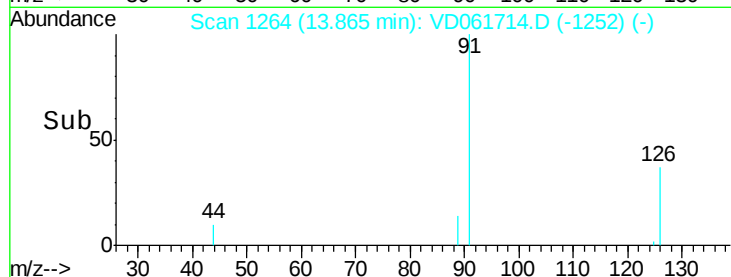
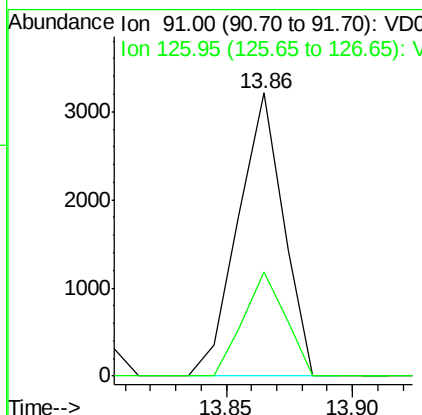
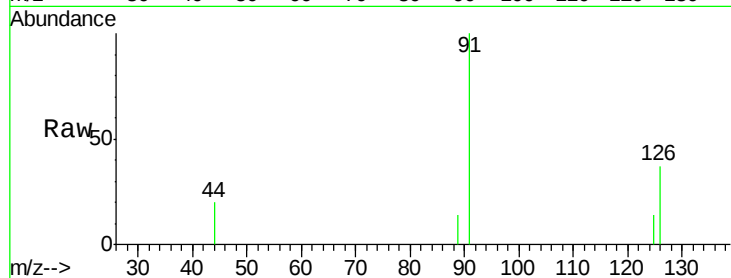




#82
4-Chlorotoluene
Concen: 3.274 ug/l
RT: 13.86 min Scan# 1264
Delta R.T. -0.08 min
Lab File: VD061714.D
Acq: 10 Apr 2019 15:46

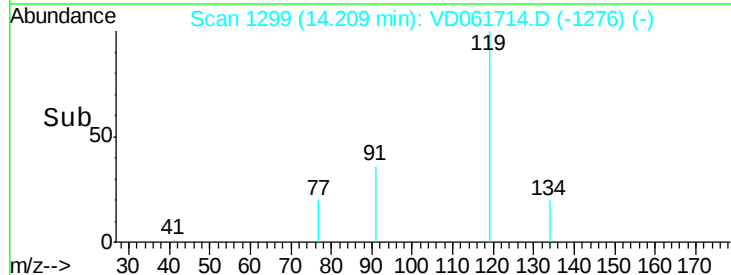
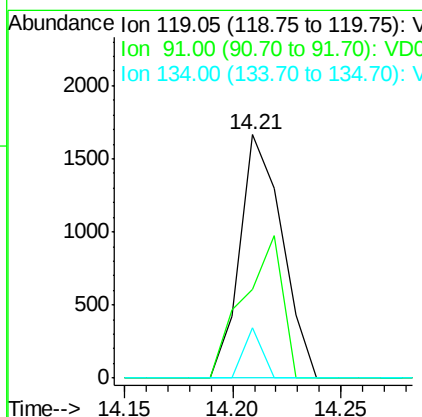
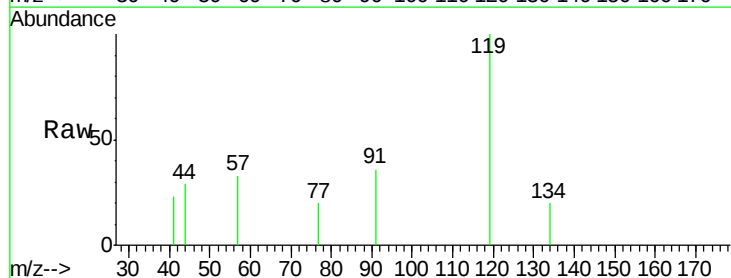
Instrument :
MSVOA_D
ClientSampleId :

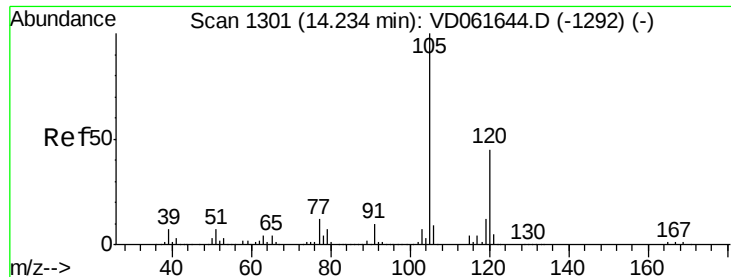
Tot Ion: 91 Resp: 4015
Ion Ratio Lower Upper
91 100
126 36.6 19.0 57.0



#83
tert-Butylbenzene
Concen: 1.439 ug/l
RT: 14.21 min Scan# 1299
Delta R.T. 0.02 min
Lab File: VD061714.D
Acq: 10 Apr 2019 15:46

Tgt Ion: 119 Resp: 2253
Ion Ratio Lower Upper
119 100
91 36.4 33.9 101.6
134 20.4 11.6 34.8





#84

1,2,4-Trimethylbenzene

Concen: 1.117 ug/l

RT: 14.26 min Scan# 1304

Delta R.T. 0.02 min

Lab File: VD061714.D

Acq: 10 Apr 2019 15:46

Instrument :

MSVOA_D

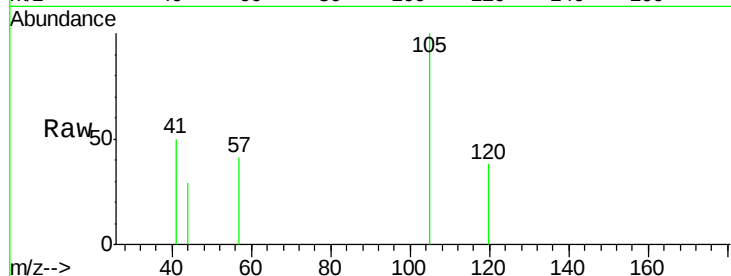
ClientSampled :

Tot Ion:105 Resp: 1464

Ion Ratio Lower Upper

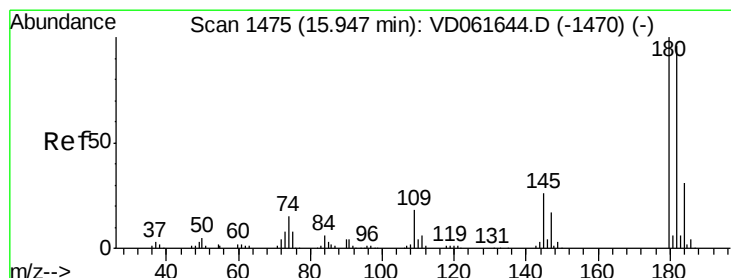
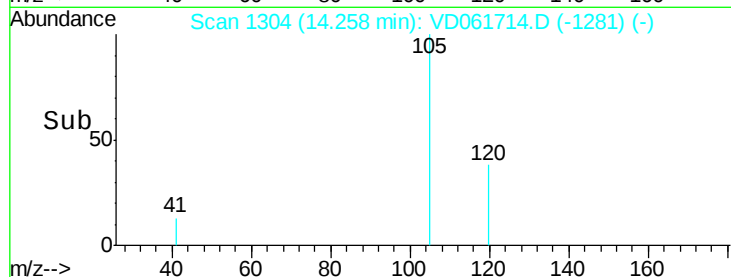
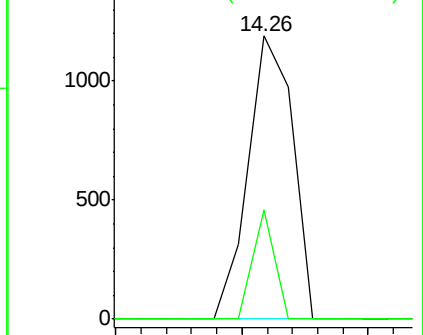
105 100

120 38.4 22.6 67.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#93

1,2,4-Trichlorobenzene

Concen: 1.536 ug/l

RT: 15.97 min Scan# 1478

Delta R.T. 0.02 min

Lab File: VD061714.D

Acq: 10 Apr 2019 15:46

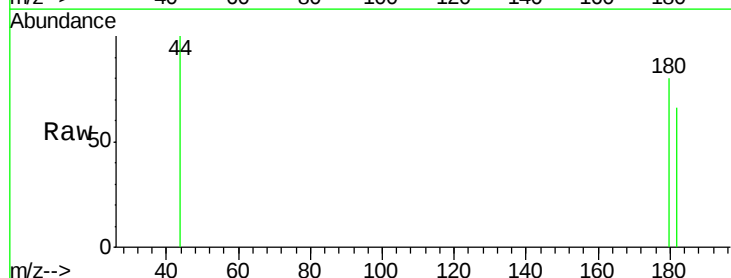
Tgt Ion:180 Resp: 527

Ion Ratio Lower Upper

180 100

182 81.6 47.8 143.3

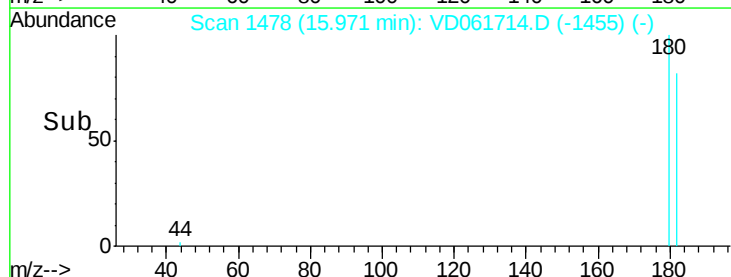
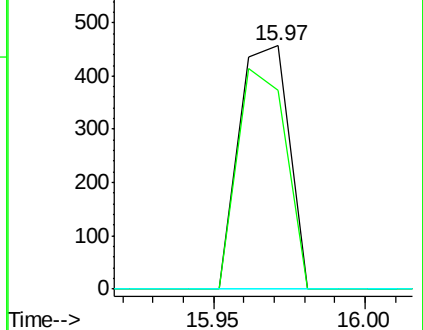
145 0.0 13.3 39.8#

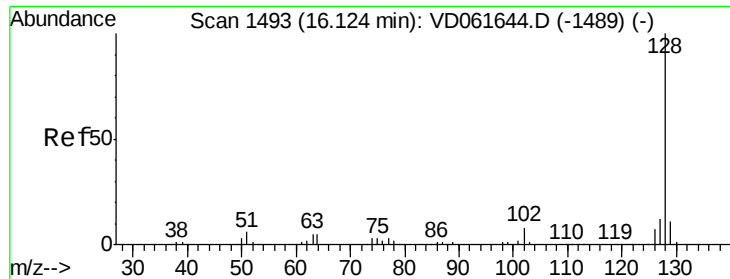


Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V





#95

Napthalene

Concen: 6.311 ug/l

RT: 16.15 min Scan# 1496

Delta R.T. 0.02 min

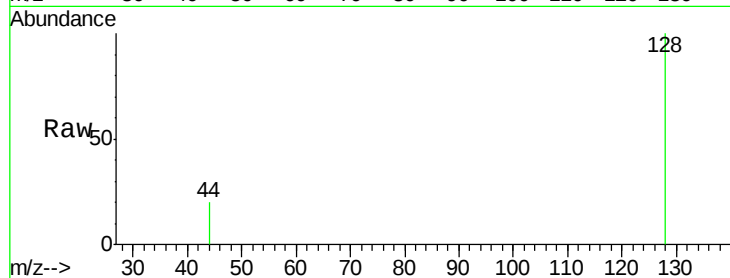
Lab File: VD061714.D

Acq: 10 Apr 2019 15:46

Instrument :

MSVOA_D

ClientSampleId :



Tot Ion:128 Resp: 3427

Ion Ratio Lower Upper

128 100

127 0.0 9.4 14.2#

129 0.0 8.8 13.2#

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

