

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040319\
 Data File : VD061559.D
 Acq On : 3 Apr 2019 16:53
 Operator : VA/AP
 Sample : K1695-08RE
 Misc : 6.53g/5ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 04 01:49:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 28 09:22:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	9006	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	8.22	114	18701	50.00	ug/l	0.03
63) Chlorobenzene-d5	12.36	117	14796	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	7891	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	3967	51.56	ug/l	0.02
Spiked Amount			Recovery	=	103.12%	
35) Dibromofluoromethane	6.92	113	5006	35.03	ug/l	0.02
Spiked Amount			Recovery	=	70.06%	
50) Toluene-d8	10.41	98	11961	34.90	ug/l	0.03
Spiked Amount			Recovery	=	69.80%	
62) 4-Bromofluorobenzene	13.55	95	5875	44.70	ug/l	0.01
Spiked Amount			Recovery	=	89.40%	

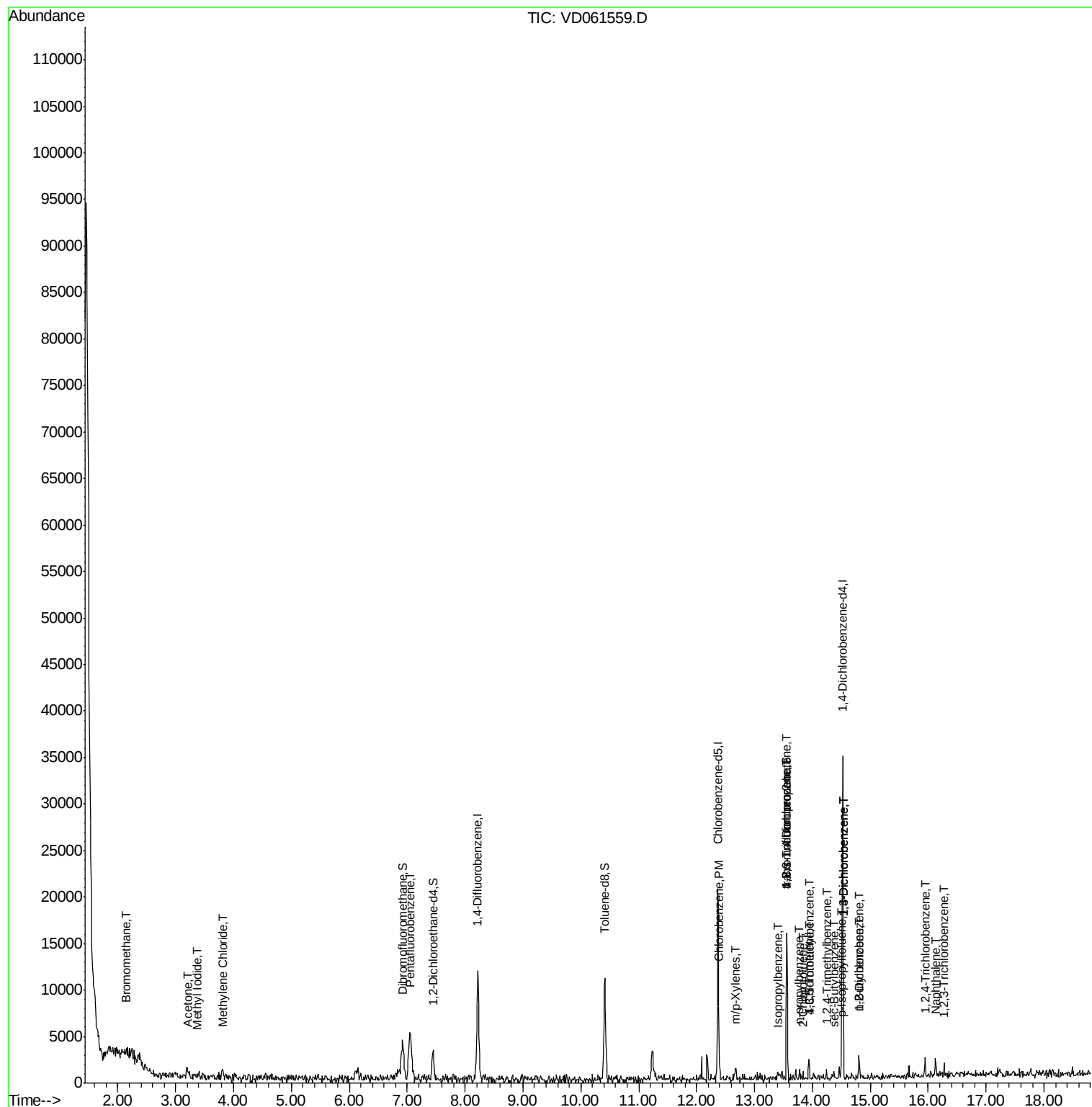
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.16	94	226	15.824	ug/l #	10
10) Methyl Iodide	3.38	142	421	5.755	ug/l #	38
16) Acetone	3.22	43	1835	92.785	ug/l #	48
20) Methylene Chloride	3.83	84	415	1.899	ug/l #	9
65) Chlorobenzene	12.39	112	466	1.541	ug/l #	41
68) m/p-Xylenes	12.67	106	260	1.487	ug/l	100
73) Isopropylbenzene	13.41	105	623	1.134	ug/l #	50
76) 1,2,3-Trichloropropane	13.55	75	1386	12.159	ug/l #	42
78) n-propylbenzene	13.77	91	1081	1.608	ug/l #	52
79) 2-Chlorotoluene	13.84	91	432	1.184	ug/l #	36
80) 1,3,5-Trimethylbenzene	13.94	105	755	1.772	ug/l	92
81) trans-1,4-Dichloro-2-buten	13.55	75	1923	55.330	ug/l #	18
82) 4-Chlorotoluene	13.95	91	972	2.450	ug/l #	36
84) 1,2,4-Trimethylbenzene	14.24	105	485	1.051	ug/l #	50
85) sec-Butylbenzene	14.37	105	687	1.214	ug/l #	60
86) p-Isopropyltoluene	14.49	119	964	2.015	ug/l #	72
87) 1,3-Dichlorobenzene	14.54	146	1147	4.160	ug/l	96
88) 1,4-Dichlorobenzene	14.54	146	1147	4.266	ug/l	89
89) n-Butylbenzene	14.81	91	809	1.842	ug/l #	86
91) 1,2-Dichlorobenzene	14.82	146	701	3.100	ug/l #	66
93) 1,2,4-Trichlorobenzene	15.95	180	726	7.047	ug/l #	74
95) Naphthalene	16.12	128	1888	12.023	ug/l #	76
96) 1,2,3-Trichlorobenzene	16.27	180	271	5.978	ug/l #	80

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

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Quant Title : SW846 8260
QLast Update : Thu Mar 28 09:22:37 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.04 min

Lab File: VD061559.D

Acq: 3 Apr 2019 16:53

Instrument :

MSVOA_D

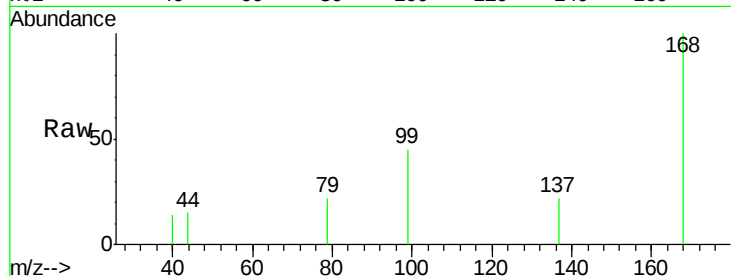
ClientSampleId :

Tot Ion:168 Resp: 9006

Ion Ratio Lower Upper

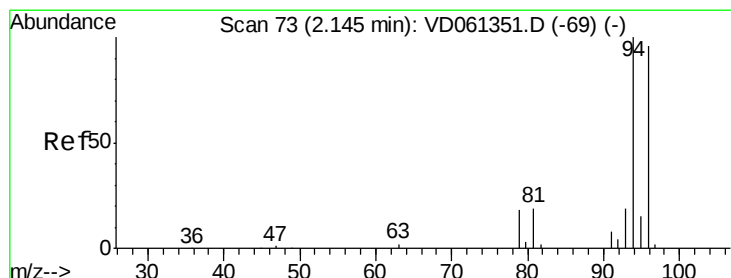
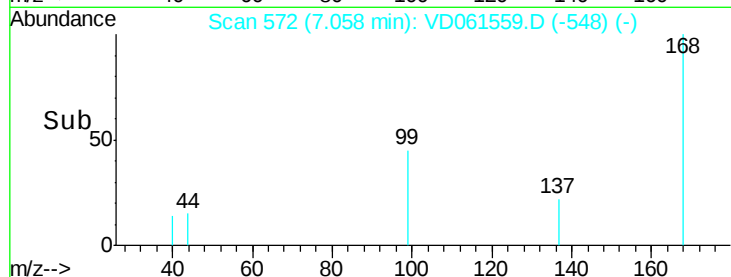
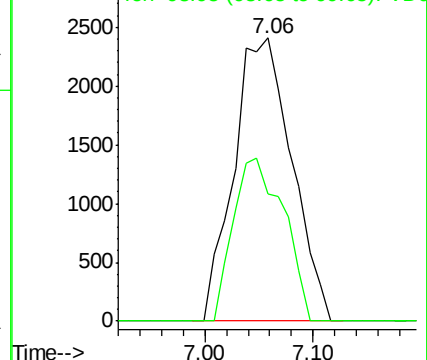
168 100

99 44.9 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 15.824 ug/l

RT: 2.16 min Scan# 74

Delta R.T. 0.01 min

Lab File: VD061559.D

Acq: 3 Apr 2019 16:53

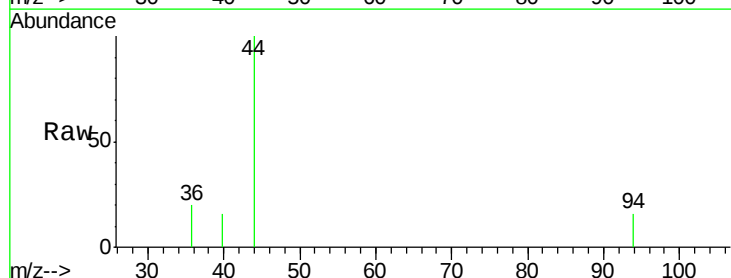
Tgt Ion: 94 Resp: 226

Ion Ratio Lower Upper

94 100

96 0.0 78.3 117.5#

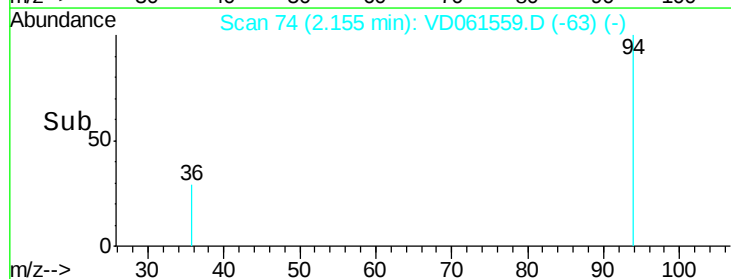
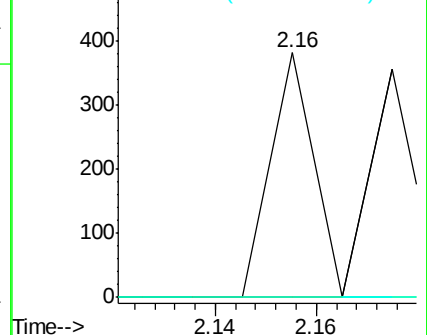
93 0.0 15.6 23.4#

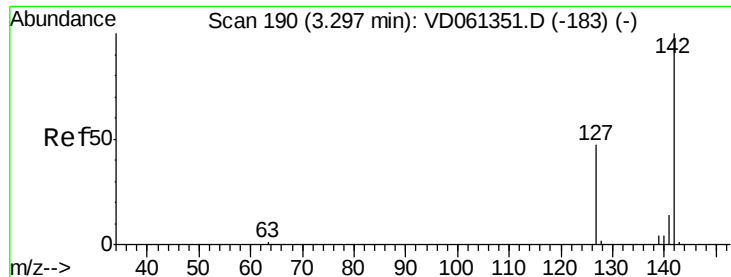


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

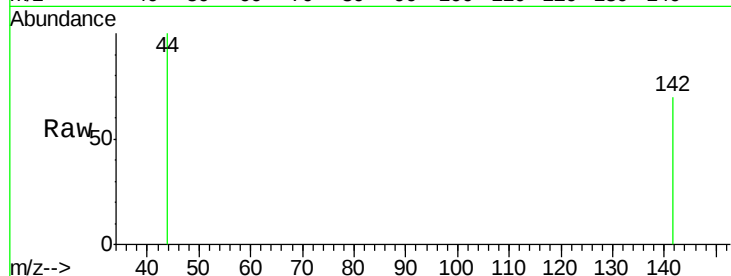




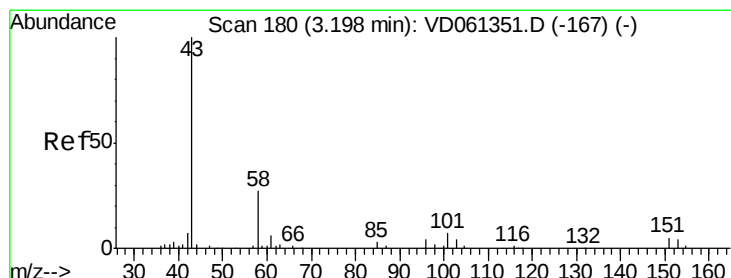
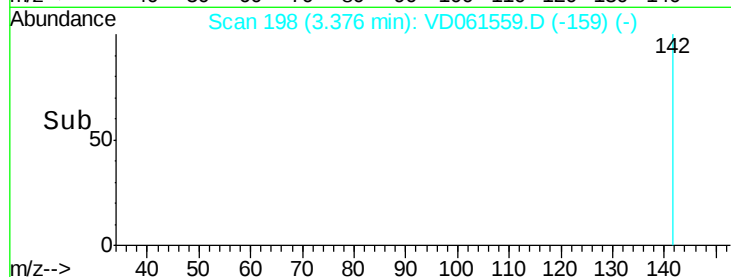
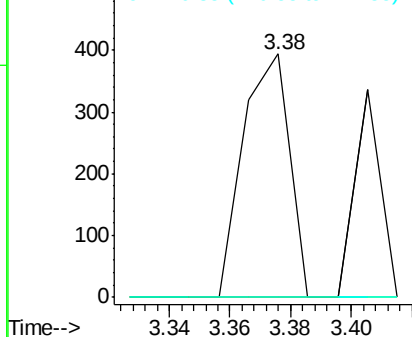
#10
Methvl Iodide
Concen: 5.755 ug/l
RT: 3.38 min Scan# 198
Delta R.T. 0.08 min
Lab File: VD061559.D
Acq: 3 Apr 2019 16:53

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:142 Resp: 421
Ion Ratio Lower Upper
142 100
127 0.0 37.7 56.5#
141 0.0 11.5 17.3#

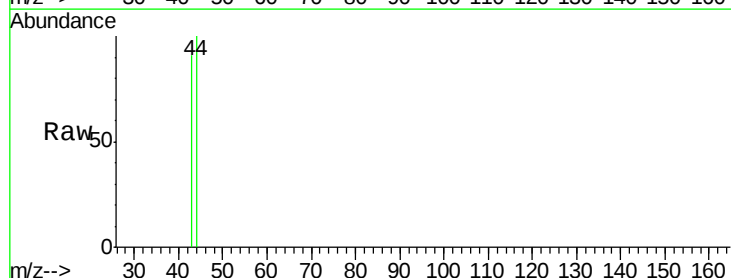


Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V

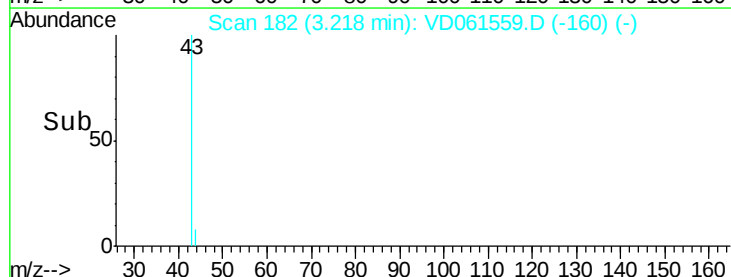
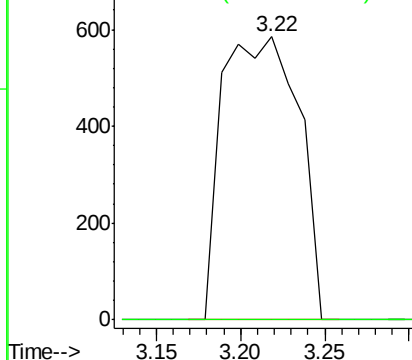


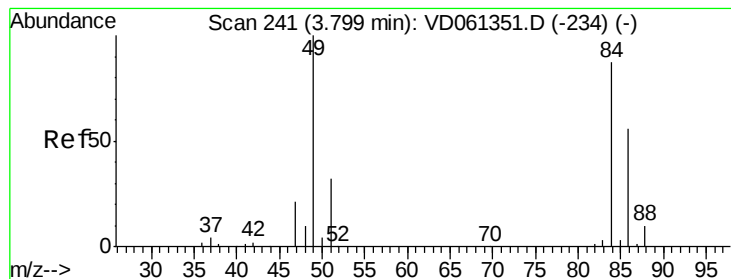
#16
Acetone
Concen: 92.785 ug/l
RT: 3.22 min Scan# 182
Delta R.T. 0.02 min
Lab File: VD061559.D
Acq: 3 Apr 2019 16:53

Tgt Ion: 43 Resp: 1835
Ion Ratio Lower Upper
43 100
58 0.0 21.5 32.3#



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





#20

Methylene Chloride

Concen: 1.899 ug/l

RT: 3.83 min Scan# 244

Delta R.T. 0.03 min

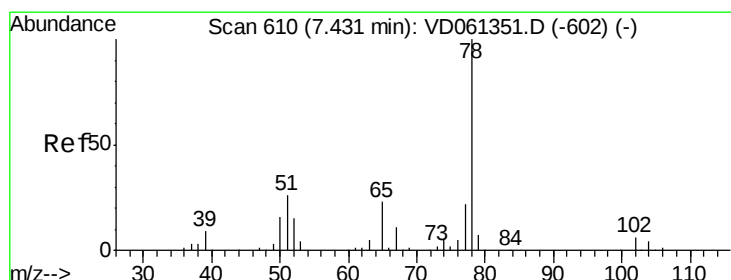
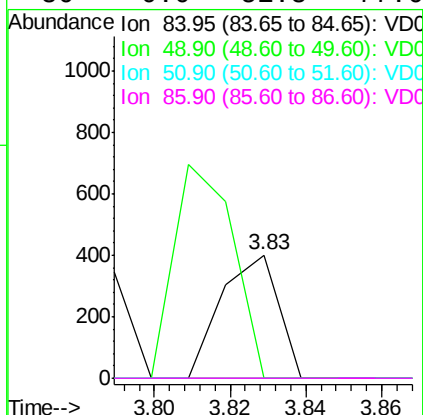
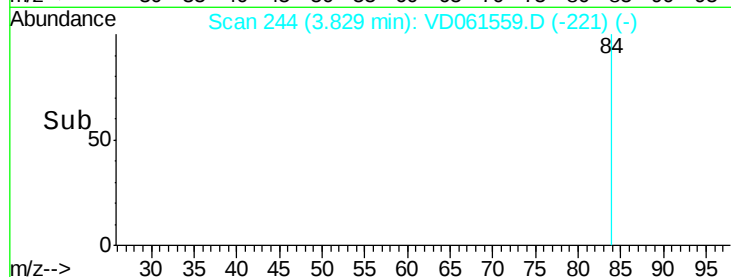
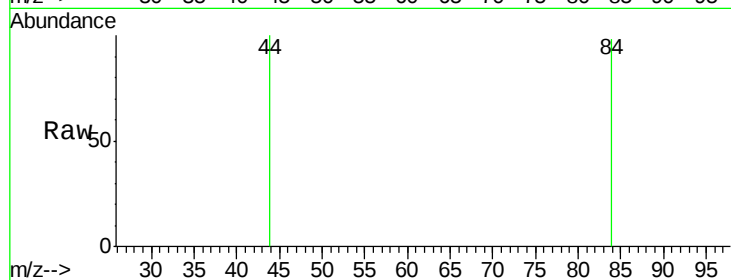
Lab File: VD061559.D

Acq: 3 Apr 2019 16:53

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 84 Resp: 415

Ion	Ratio	Lower	Upper
84	100		
49	0.0	91.8	137.8#
51	0.0	29.8	44.8#
86	0.0	51.8	77.6#



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.45 min Scan# 612

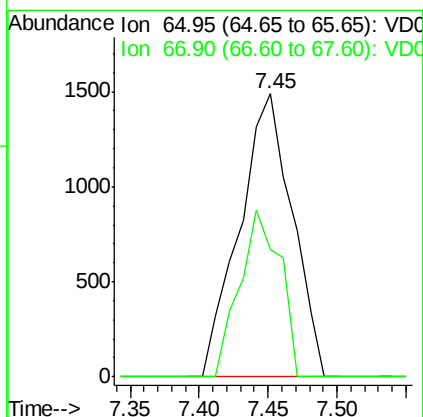
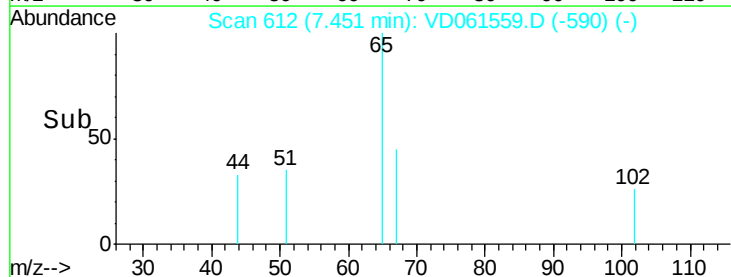
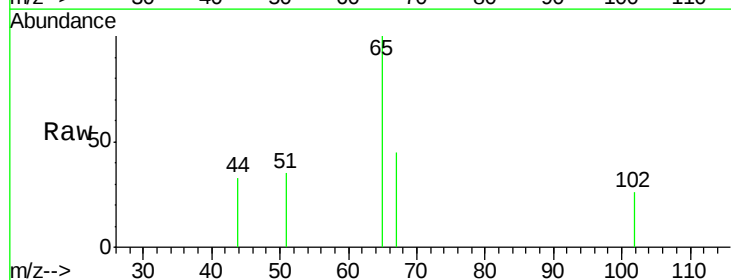
Delta R.T. 0.02 min

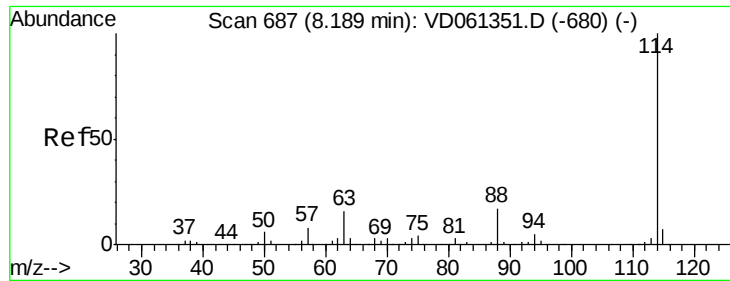
Lab File: VD061559.D

Acq: 3 Apr 2019 16:53

Tgt Ion: 65 Resp: 3967

Ion	Ratio	Lower	Upper
65	100		
67	44.8	0.0	99.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 690

Delta R.T. 0.03 min

Lab File: VD061559.D

Acq: 3 Apr 2019 16:53

Instrument :

MSVOA_D

ClientSampleId :

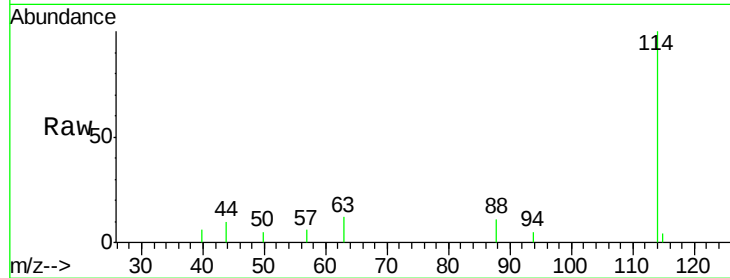
Tot Ion:114 Resp: 18701

Ion Ratio Lower Upper

114 100

63 11.8 0.0 31.6

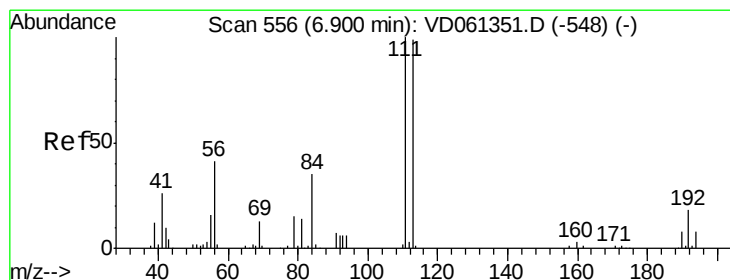
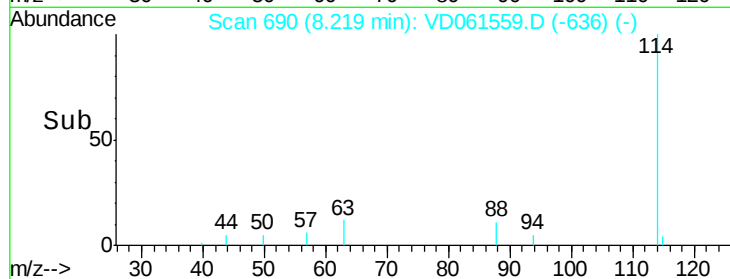
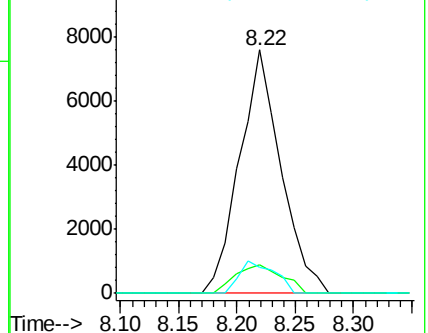
88 10.5 0.0 33.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.92 min Scan# 558

Delta R.T. 0.02 min

Lab File: VD061559.D

Acq: 3 Apr 2019 16:53

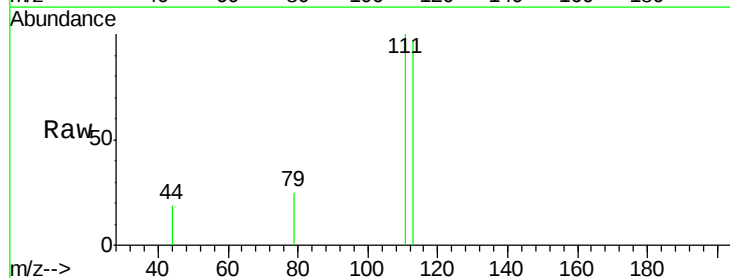
Tgt Ion:113 Resp: 5006

Ion Ratio Lower Upper

113 100

111 103.1 81.0 121.6

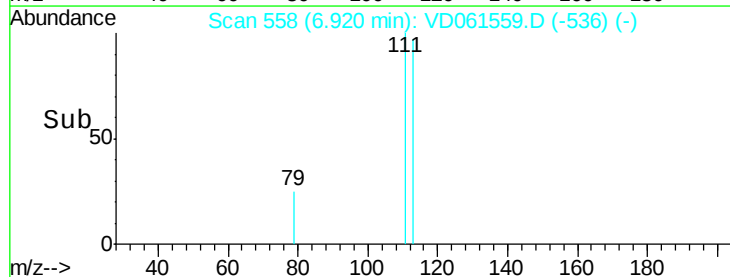
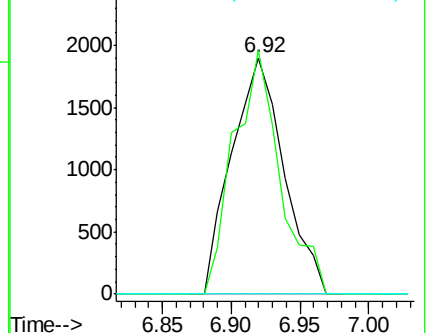
192 0.0 14.4 21.6#

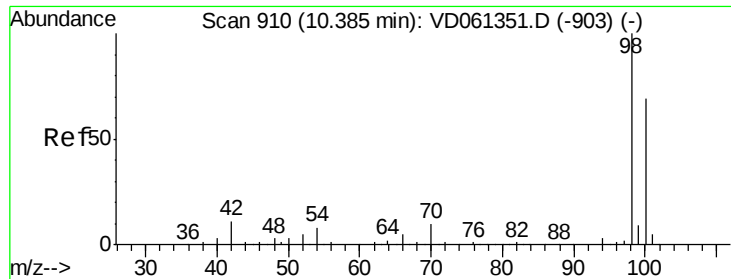


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.03 min

Lab File: VD061559.D

Acq: 3 Apr 2019 16:53

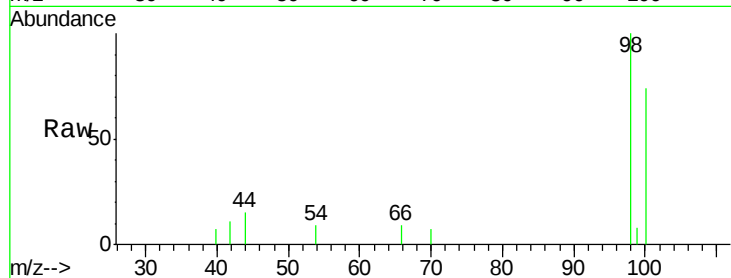
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 98 Resp: 11961

Ion Ratio Lower Upper

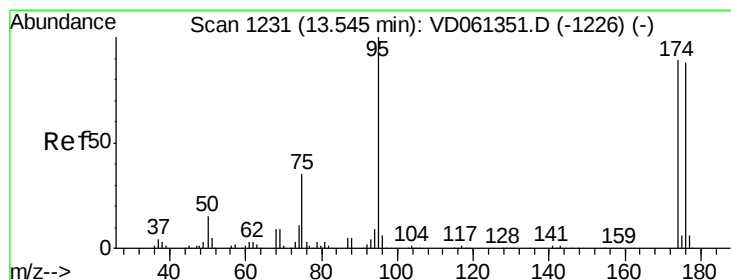
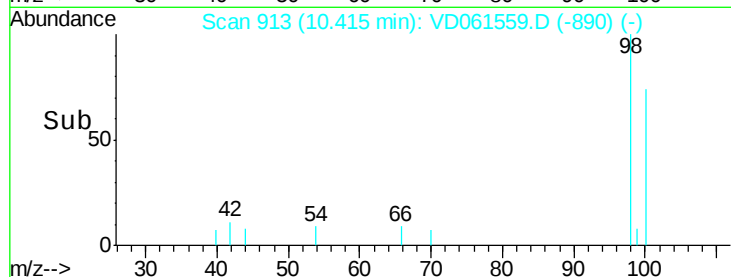
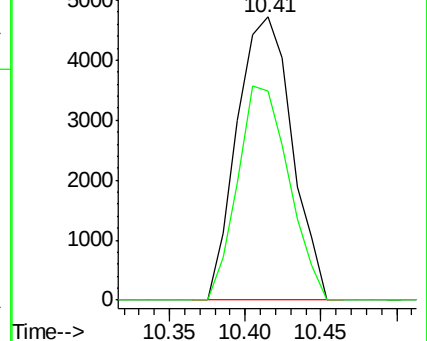
98 100

100 74.0 56.2 84.2



Abundance Ion 98.05 (97.75 to 98.75): VD061351.D (-903) (-)

Ion 100.05 (99.75 to 100.75): VD061351.D (-903) (-)



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.01 min

Lab File: VD061559.D

Acq: 3 Apr 2019 16:53

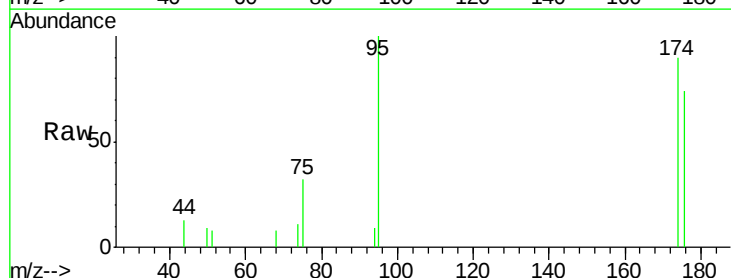
Tgt Ion: 95 Resp: 5875

Ion Ratio Lower Upper

95 100

174 90.1 0.0 178.0

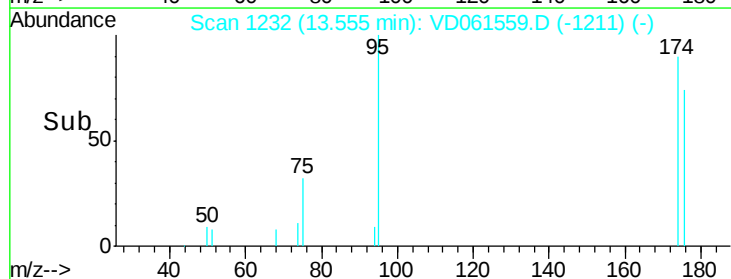
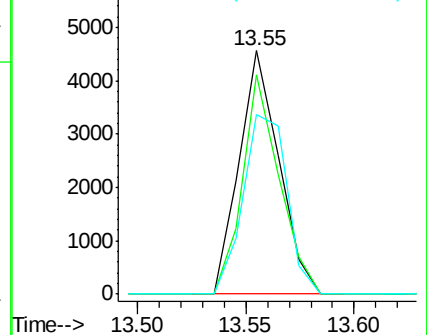
176 73.9 0.0 175.0

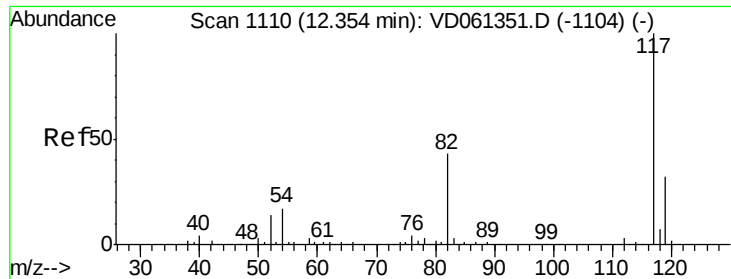


Abundance Ion 95.00 (94.70 to 95.70): VD061351.D (-1226) (-)

Ion 173.90 (173.60 to 174.60): VD061351.D (-1226) (-)

Ion 175.90 (175.60 to 176.60): VD061351.D (-1226) (-)

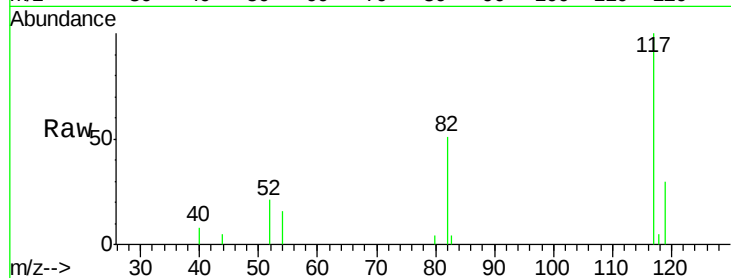




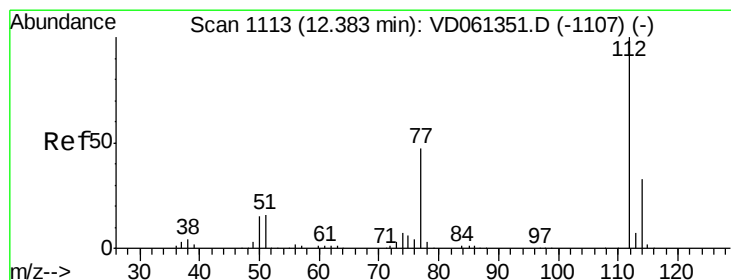
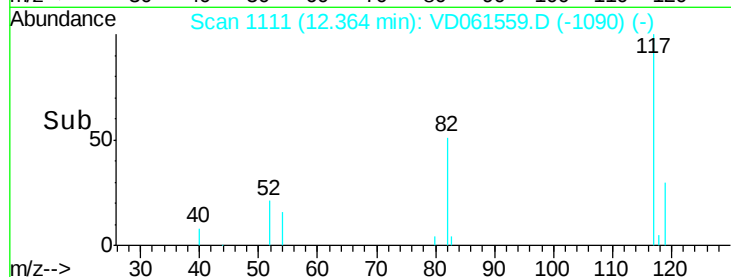
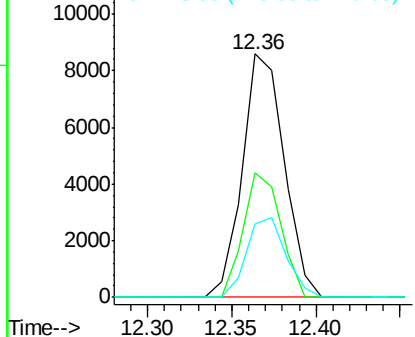
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. 0.01 min
Lab File: VD061559.D
Acq: 3 Apr 2019 16:53

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 14796
Ion Ratio Lower Upper
117 100
82 51.1 34.4 51.6
119 30.2 25.8 38.6

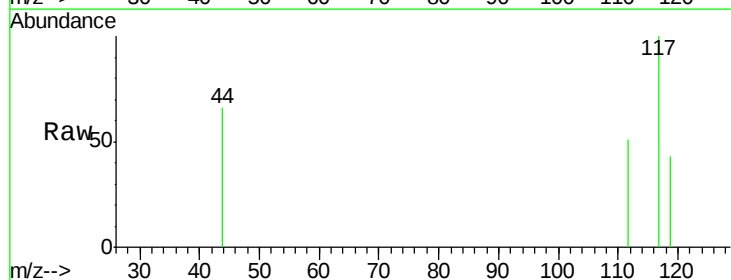


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

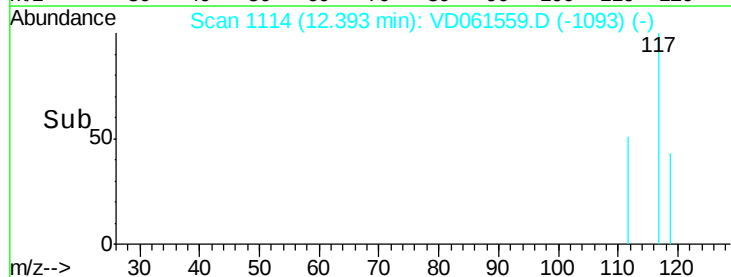
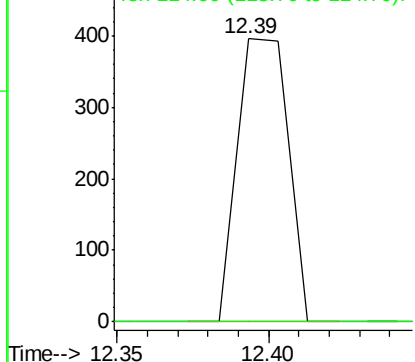


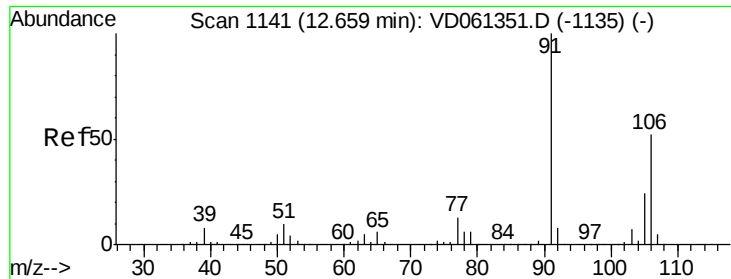
#65
Chlorobenzene
Concen: 1.541 ug/l
RT: 12.39 min Scan# 1114
Delta R.T. 0.01 min
Lab File: VD061559.D
Acq: 3 Apr 2019 16:53

Tgt Ion:112 Resp: 466
Ion Ratio Lower Upper
112 100
114 0.0 26.6 39.8#



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

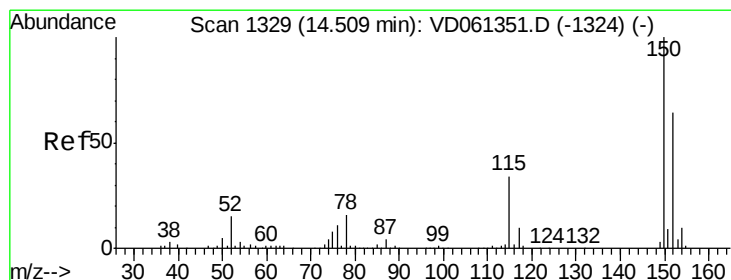
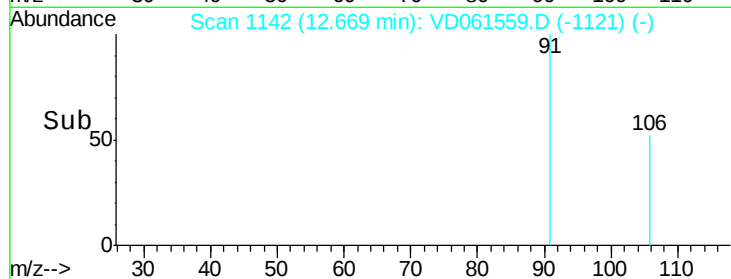
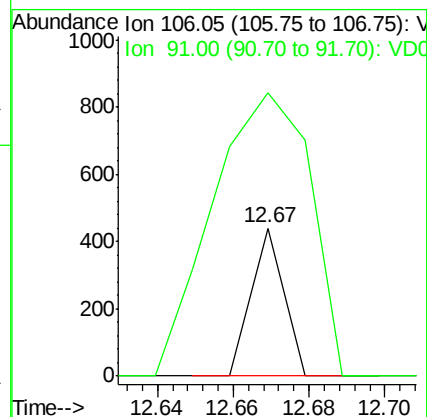
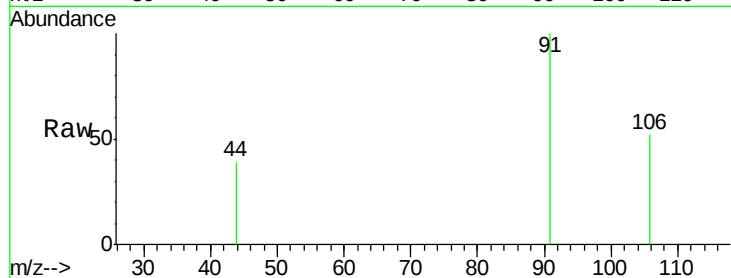




#68
m/p-Xvlenes
Concen: 1.487 ug/l
RT: 12.67 min Scan# 1142
Delta R.T. 0.01 min
Lab File: VD061559.D
Acq: 3 Apr 2019 16:53

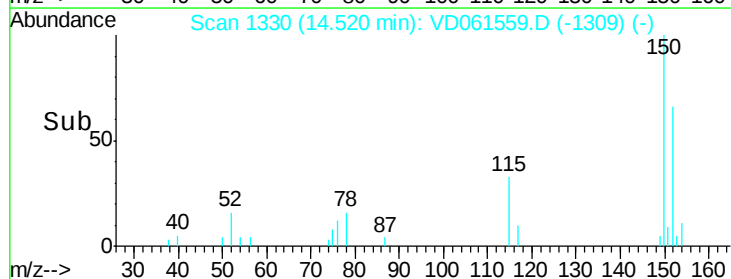
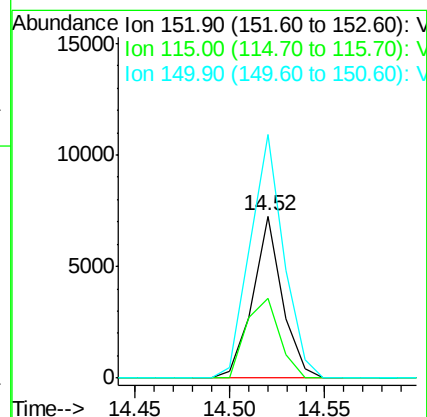
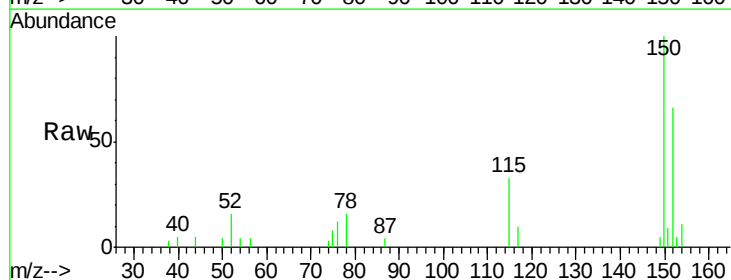
Instrument :
MSVOA_D
ClientSampleId :

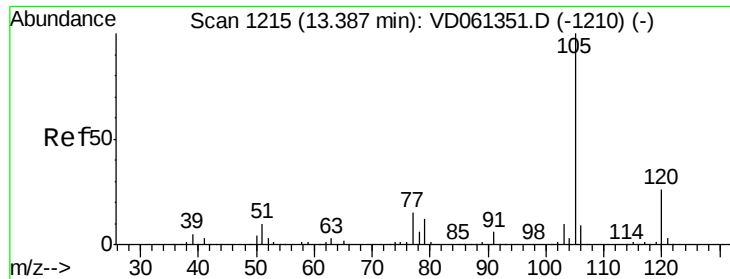
Tot Ion:106 Resp: 260
Ion Ratio Lower Upper
106 100
91 190.9 153.1 229.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.01 min
Lab File: VD061559.D
Acq: 3 Apr 2019 16:53

Tgt Ion:152 Resp: 7891
Ion Ratio Lower Upper
152 100
115 49.2 26.9 80.6
150 150.4 0.0 318.0





#73

Isopropylbenzene

Concen: 1.134 ug/l

RT: 13.41 min Scan# 1217

Delta R.T. 0.02 min

Lab File: VD061559.D

Acq: 3 Apr 2019 16:53

Instrument :

MSVOA_D

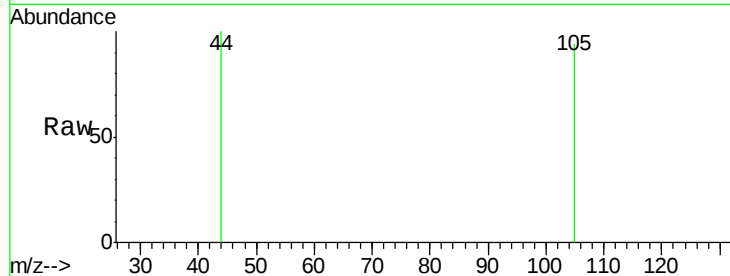
ClientSampleId :

Tot Ion:105 Resp: 623

Ion Ratio Lower Upper

105 100

120 0.0 12.8 38.3#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

13.41

500

400

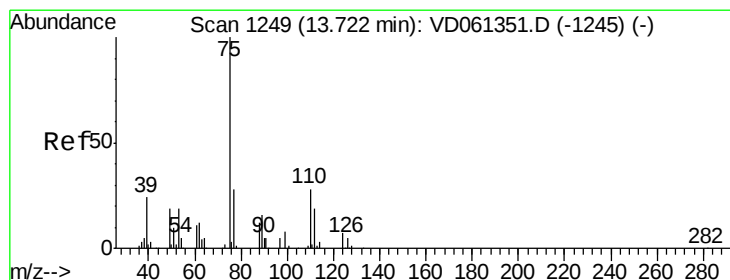
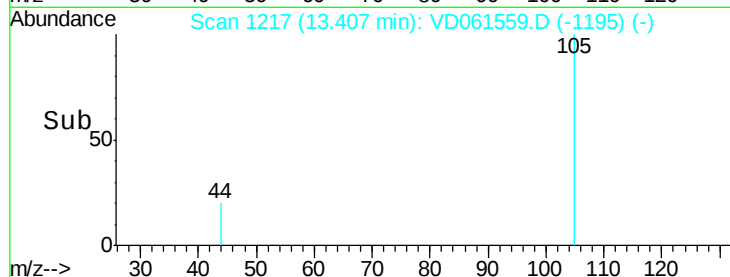
300

200

100

0

Time-->



#76

1,2,3-Trichloropropane

Concen: 12.159 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.17 min

Lab File: VD061559.D

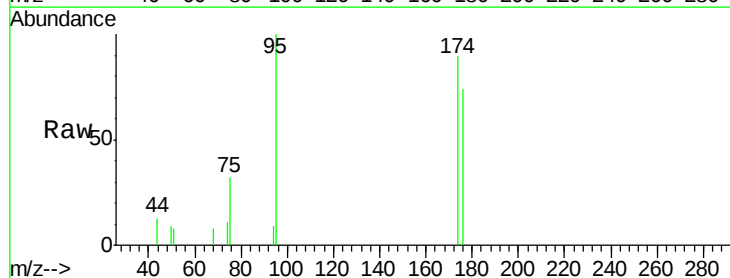
Acq: 3 Apr 2019 16:53

Tgt Ion: 75 Resp: 1386

Ion Ratio Lower Upper

75 100

77 0.0 16.2 48.5#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 76.95 (76.65 to 77.65): V

13.55

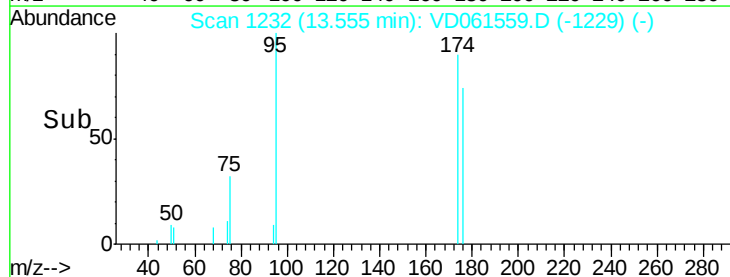
1500

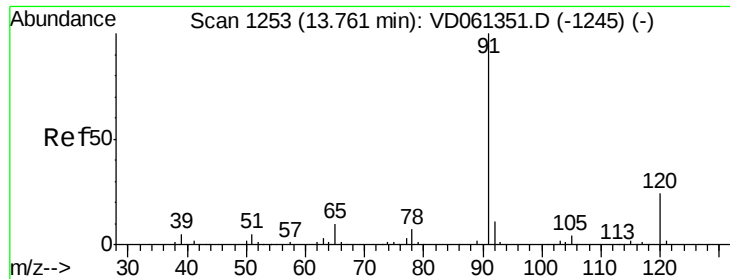
1000

500

0

Time-->





#78

n-propylbenzene

Concen: 1.608 ug/l

RT: 13.77 min Scan# 1254

Delta R.T. 0.01 min

Lab File: VD061559.D

Acq: 3 Apr 2019 16:53

Instrument :

MSVOA_D

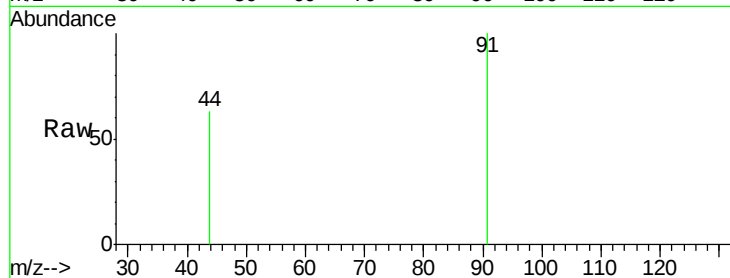
ClientSampleId :

Tot Ion: 91 Resp: 1081

Ion Ratio Lower Upper

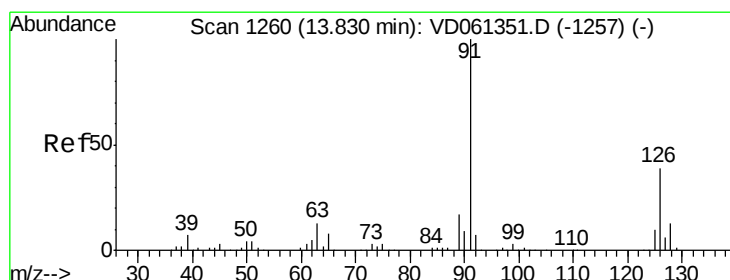
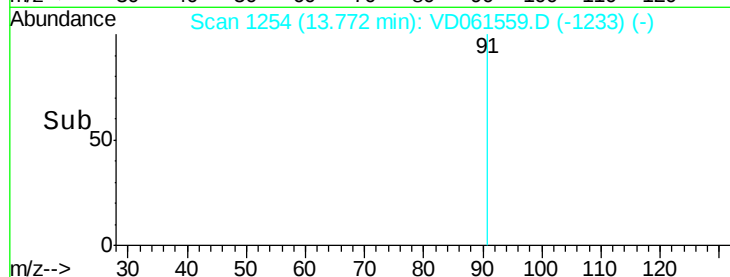
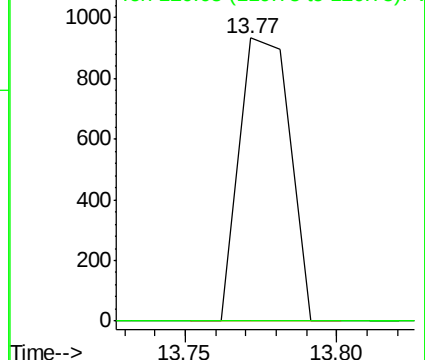
91 100

120 0.0 11.8 35.3#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): V



#79

2-Chlorotoluene

Concen: 1.184 ug/l

RT: 13.84 min Scan# 1261

Delta R.T. 0.01 min

Lab File: VD061559.D

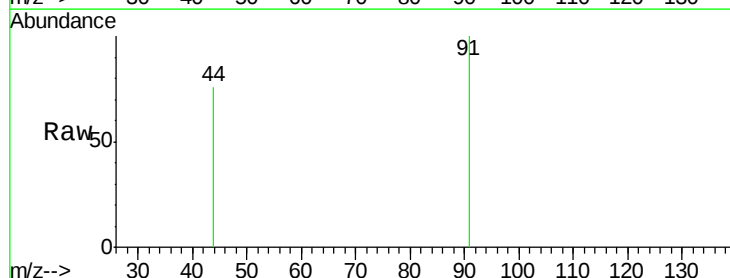
Acq: 3 Apr 2019 16:53

Tgt Ion: 91 Resp: 432

Ion Ratio Lower Upper

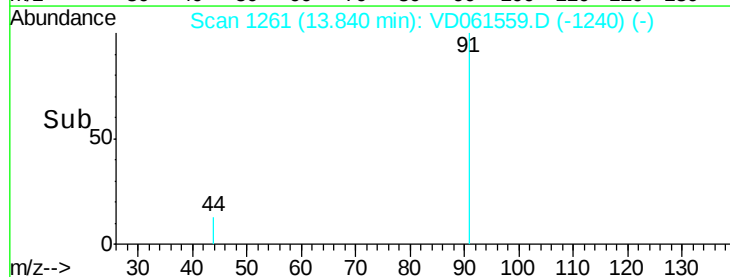
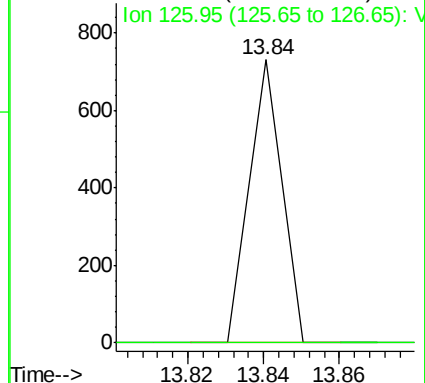
91 100

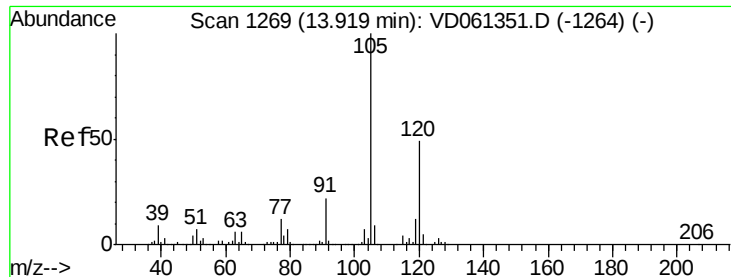
126 0.0 19.4 58.2#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V

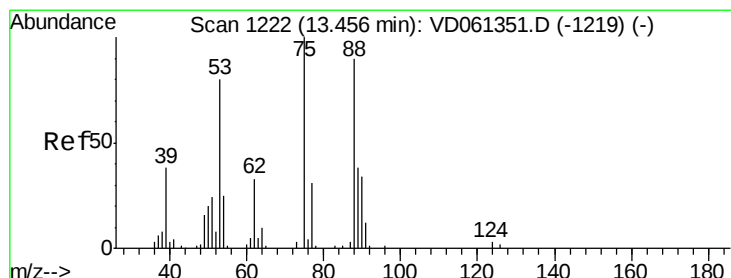
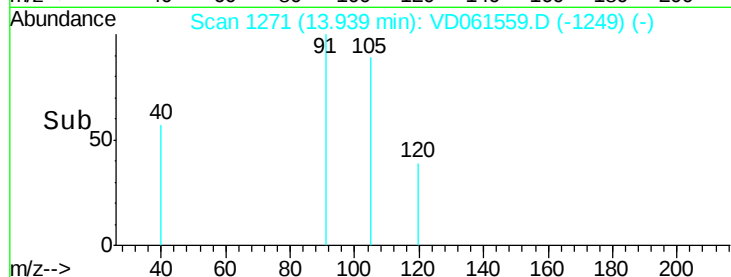
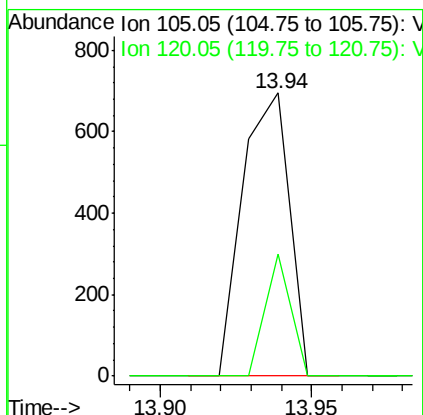
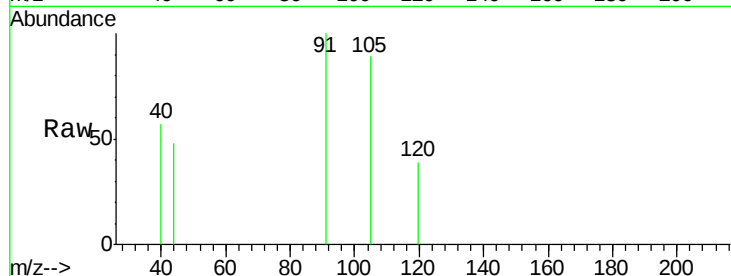




#80
 1,3,5-Trimethylbenzene
 Concen: 1.772 ug/l
 RT: 13.94 min Scan# 1271
 Delta R.T. 0.02 min
 Lab File: VD061559.D
 Acq: 3 Apr 2019 16:53

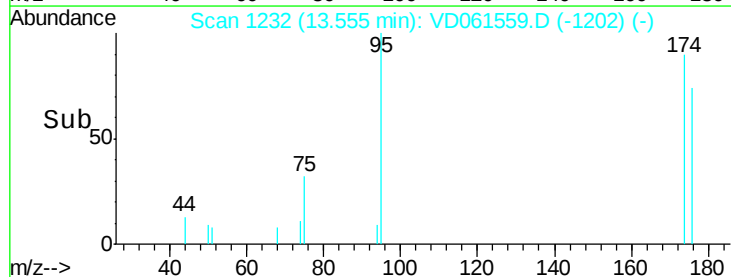
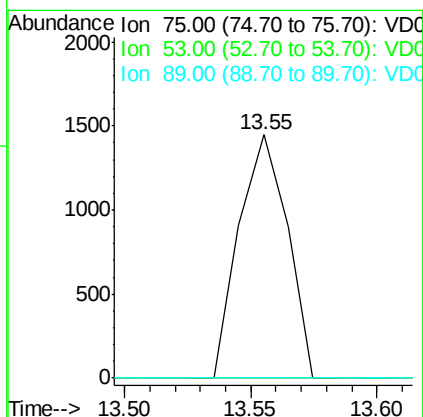
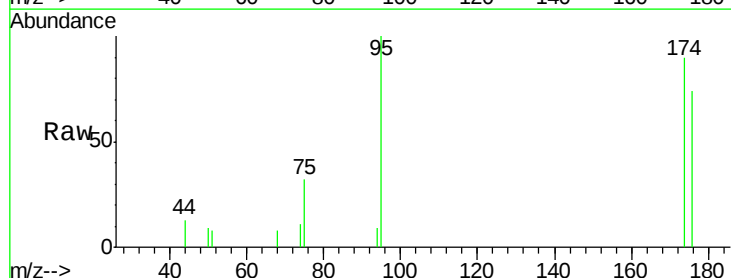
Instrument :
 MSVOA_D
 ClientSampled :

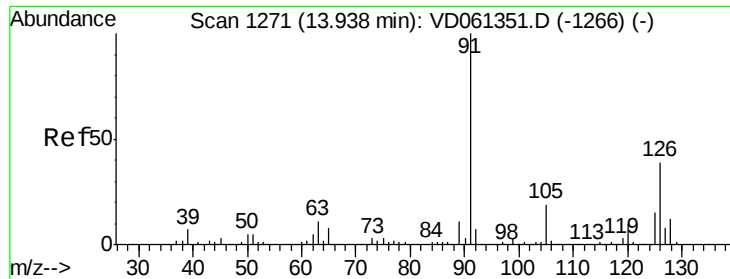
Tot Ion:105 Resp: 755
 Ion Ratio Lower Upper
 105 100
 120 43.3 24.6 73.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 55.330 ug/l
 RT: 13.55 min Scan# 1232
 Delta R.T. 0.10 min
 Lab File: VD061559.D
 Acq: 3 Apr 2019 16:53

Tgt Ion: 75 Resp: 1923
 Ion Ratio Lower Upper
 75 100
 53 0.0 63.8 95.8#
 89 0.0 30.5 45.7#





#82

4-Chlorotoluene

Concen: 2.450 ug/l

RT: 13.95 min Scan# 1272

Delta R.T. 0.01 min

Lab File: VD061559.D

Acq: 3 Apr 2019 16:53

Instrument :

MSVOA_D

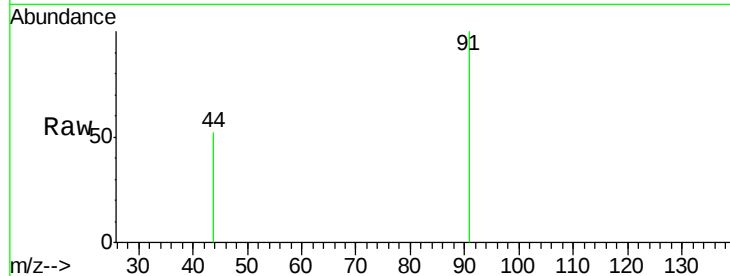
ClientSampleId :

Tot Ion: 91 Resp: 972

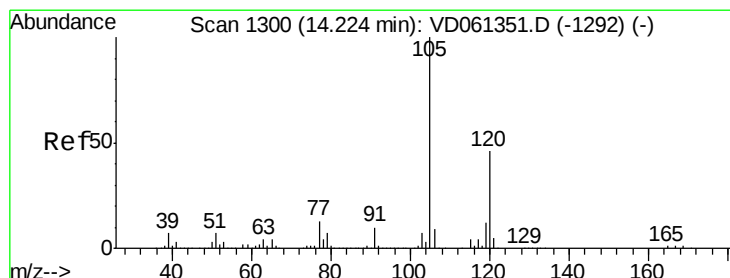
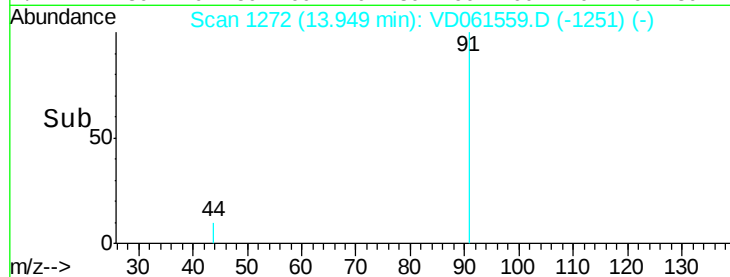
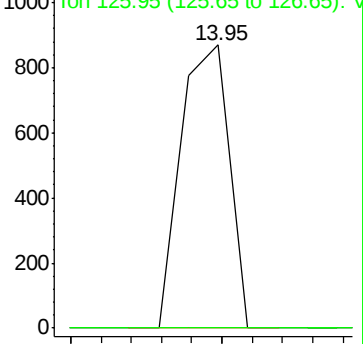
Ion Ratio Lower Upper

91 100

126 0.0 19.6 58.8#



Abundance Ion 91.00 (90.70 to 91.70): V



#84

1,2,4-Trimethylbenzene

Concen: 1.051 ug/l

RT: 14.24 min Scan# 1302

Delta R.T. 0.02 min

Lab File: VD061559.D

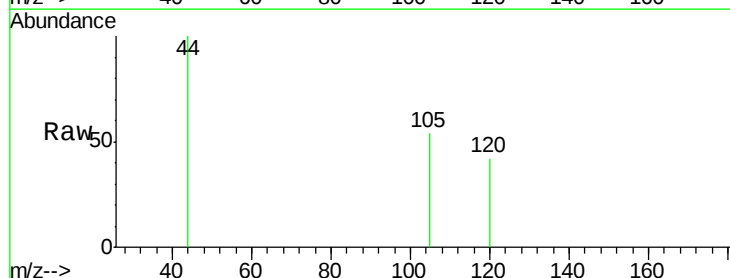
Acq: 3 Apr 2019 16:53

Tgt Ion: 105 Resp: 485

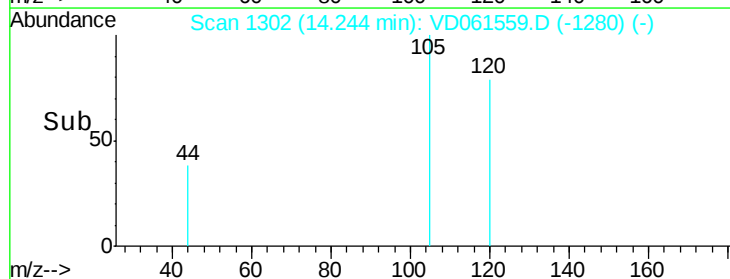
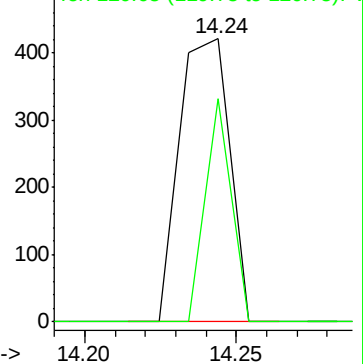
Ion Ratio Lower Upper

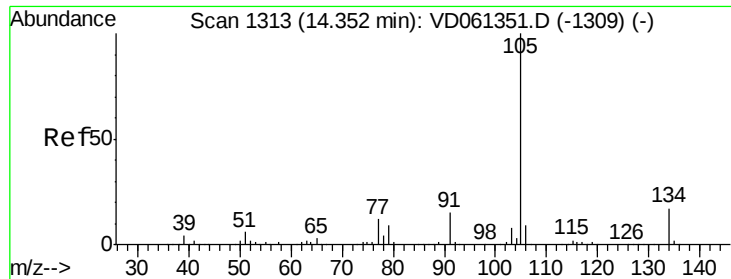
105 100

120 78.6 22.8 68.4#



Abundance Ion 105.05 (104.75 to 105.75): V





#85

sec-Butylbenzene

Concen: 1.214 ug/l

RT: 14.37 min Scan# 1315

Delta R.T. 0.02 min

Lab File: VD061559.D

Acq: 3 Apr 2019 16:53

Instrument :

MSVOA_D

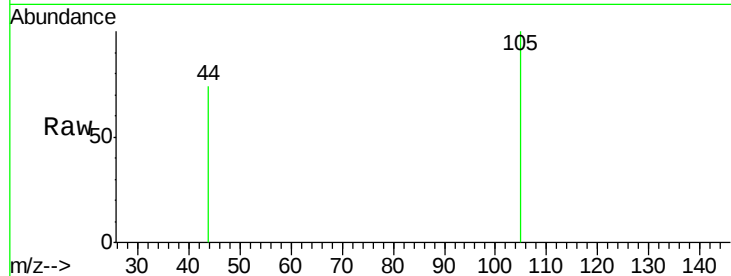
ClientSampleId :

Tot Ion:105 Resp: 687

Ion Ratio Lower Upper

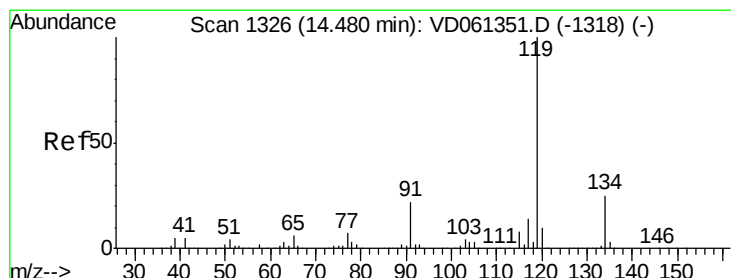
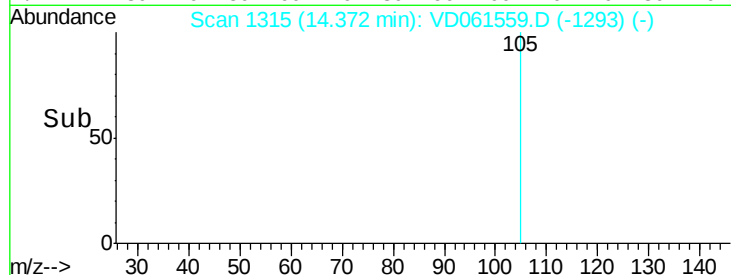
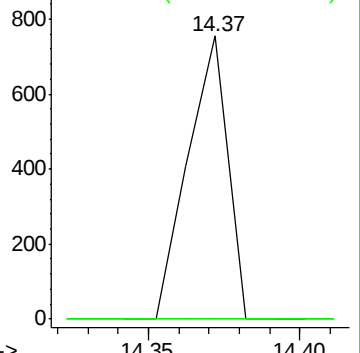
105 100

134 0.0 8.7 26.1#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



#86

p-Isopropyltoluene

Concen: 2.015 ug/l

RT: 14.49 min Scan# 1327

Delta R.T. 0.01 min

Lab File: VD061559.D

Acq: 3 Apr 2019 16:53

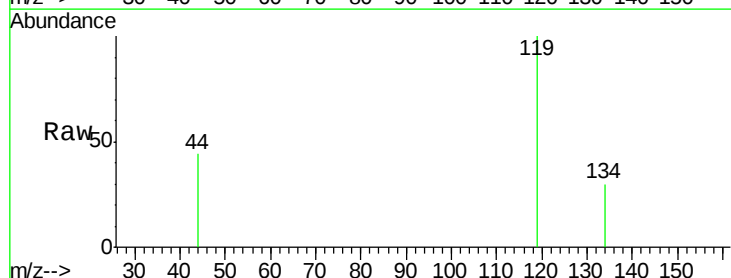
Tgt Ion:119 Resp: 964

Ion Ratio Lower Upper

119 100

134 29.8 12.3 36.8

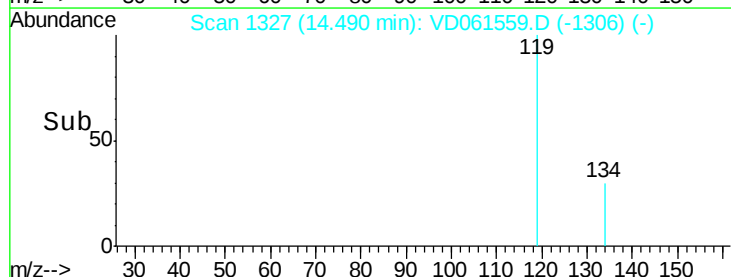
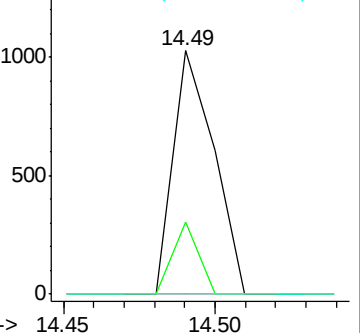
91 0.0 11.1 33.1#

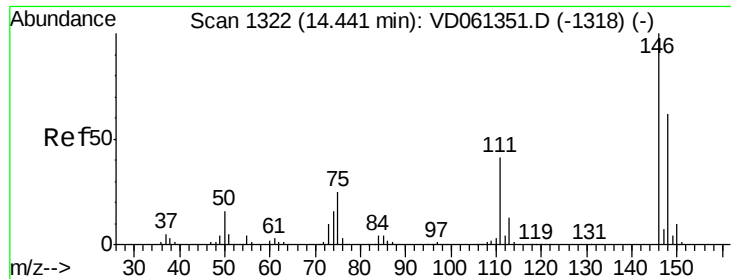


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

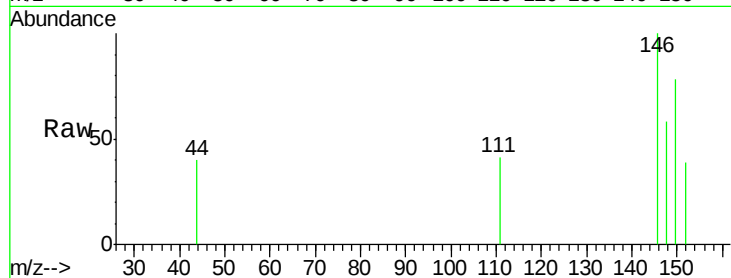




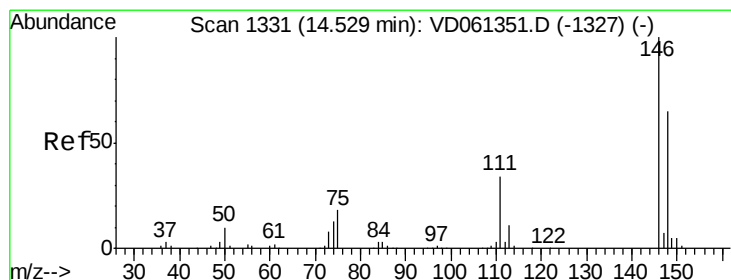
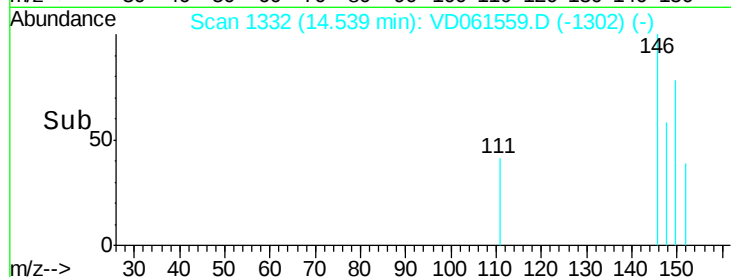
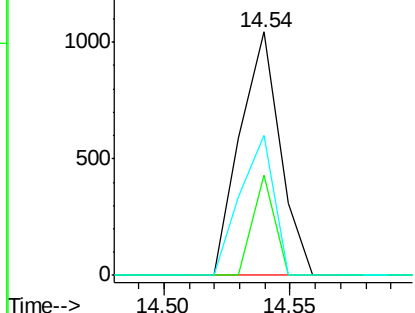
#87
 1,3-Dichlorobenzene
 Concen: 4.160 ug/l
 RT: 14.54 min Scan# 1332
 Delta R.T. 0.10 min
 Lab File: VD061559.D
 Acq: 3 Apr 2019 16:53

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:146 Resp: 1147
 Ion Ratio Lower Upper
 146 100
 111 41.1 20.6 61.9
 148 57.8 31.1 93.3

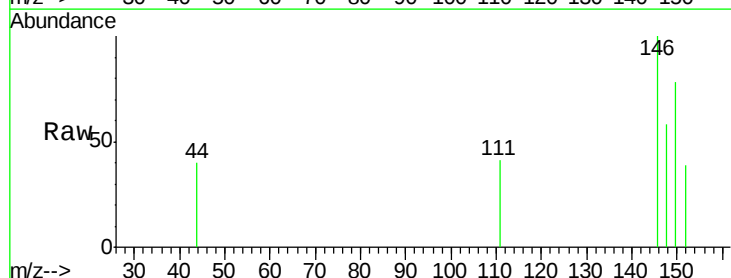


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

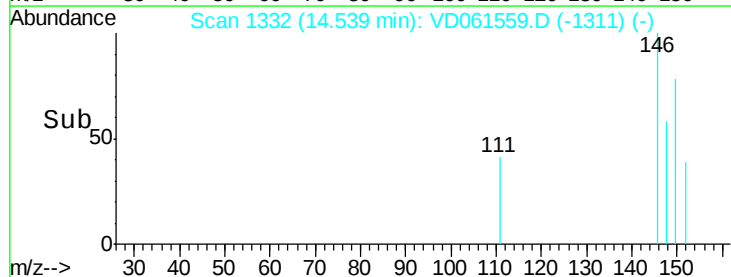
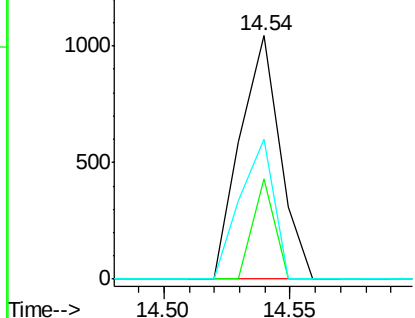


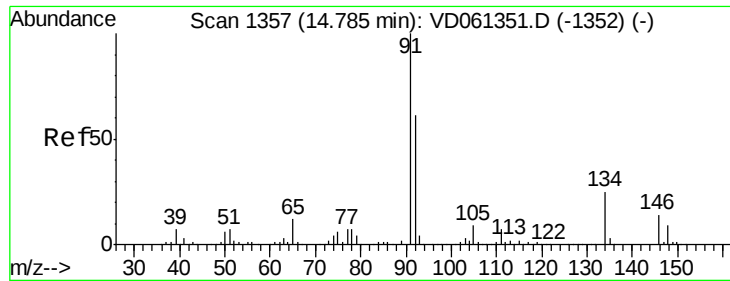
#88
 1,4-Dichlorobenzene
 Concen: 4.266 ug/l
 RT: 14.54 min Scan# 1332
 Delta R.T. 0.01 min
 Lab File: VD061559.D
 Acq: 3 Apr 2019 16:53

Tgt Ion:146 Resp: 1147
 Ion Ratio Lower Upper
 146 100
 111 41.1 16.8 50.4
 148 57.8 32.6 98.0



Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

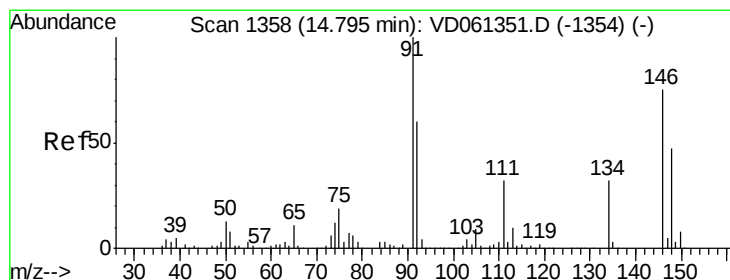
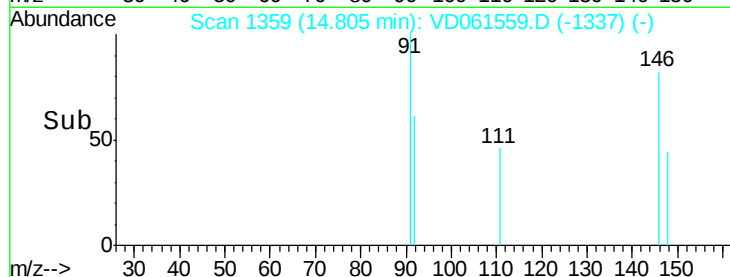
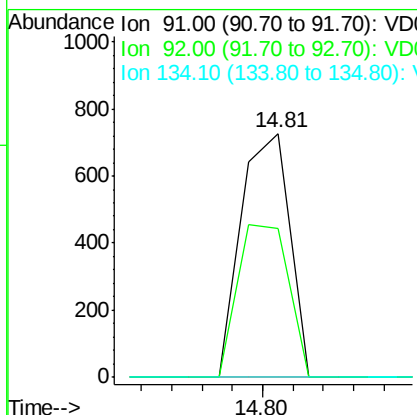
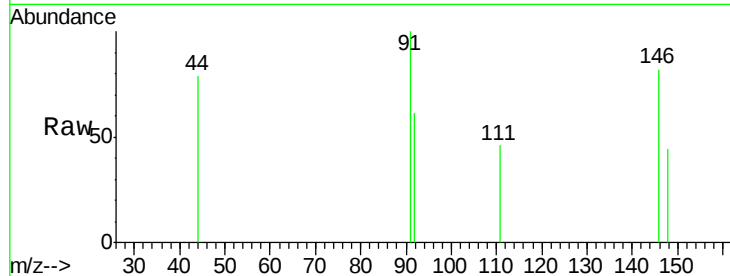




#89
n-Butylbenzene
Concen: 1.842 ug/l
RT: 14.81 min Scan# 1359
Delta R.T. 0.02 min
Lab File: VD061559.D
Acq: 3 Apr 2019 16:53

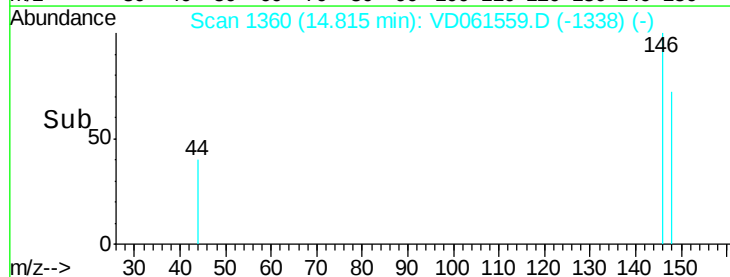
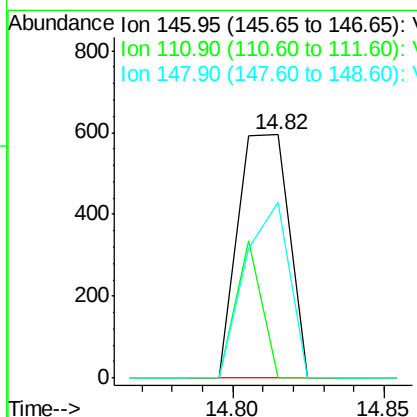
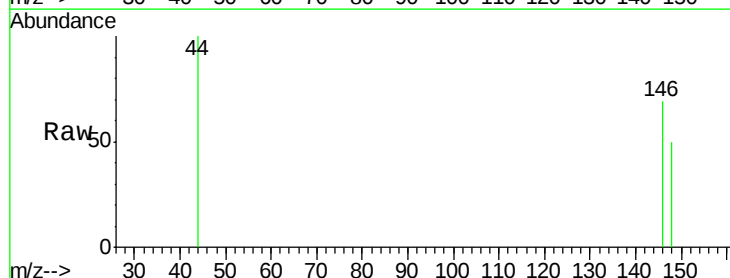
Instrument :
MSVOA_D
ClientSampleID :

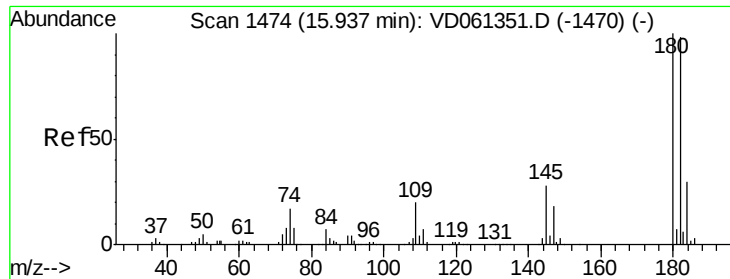
Tot Ion: 91 Resp: 809
Ion Ratio Lower Upper
91 100
92 60.9 30.3 91.0
134 0.0 12.4 37.0#



#91
1,2-Dichlorobenzene
Concen: 3.100 ug/l
RT: 14.82 min Scan# 1360
Delta R.T. 0.02 min
Lab File: VD061559.D
Acq: 3 Apr 2019 16:53

Tgt Ion: 146 Resp: 701
Ion Ratio Lower Upper
146 100
111 0.0 21.2 63.6#
148 72.4 31.6 95.0

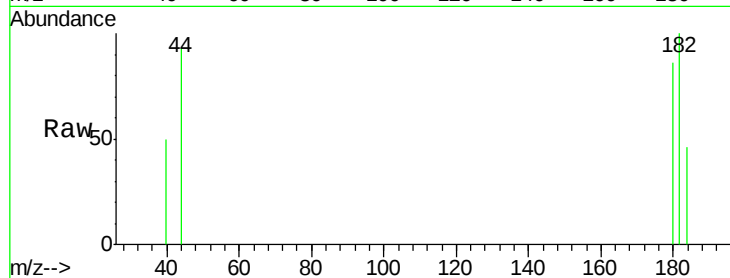




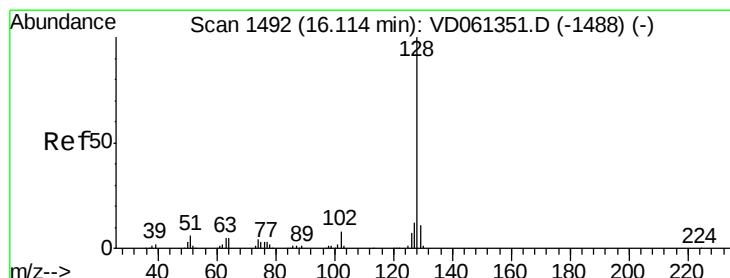
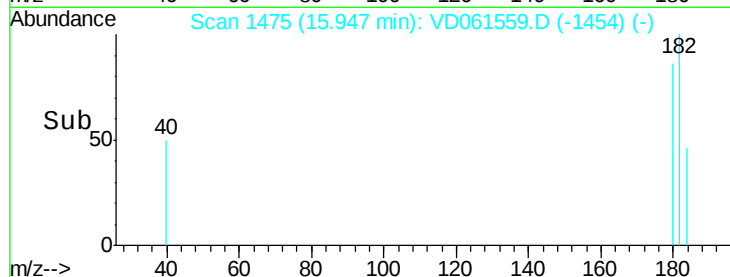
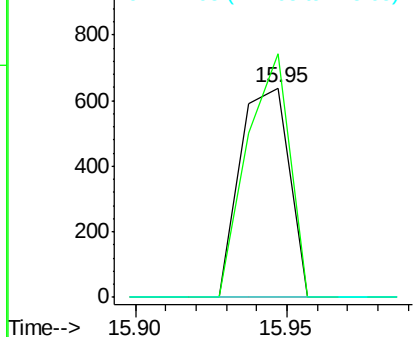
#93
 1,2,4-Trichlorobenzene
 Concen: 7.047 ug/l
 RT: 15.95 min Scan# 1475
 Delta R.T. 0.01 min
 Lab File: VD061559.D
 Acq: 3 Apr 2019 16:53

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:180 Resp: 726
 Ion Ratio Lower Upper
 180 100
 182 116.1 48.9 146.8
 145 0.0 14.1 42.3#

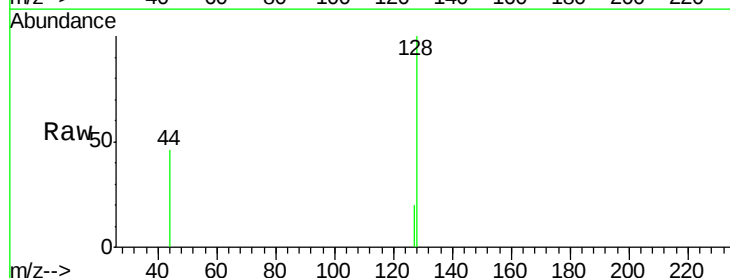


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

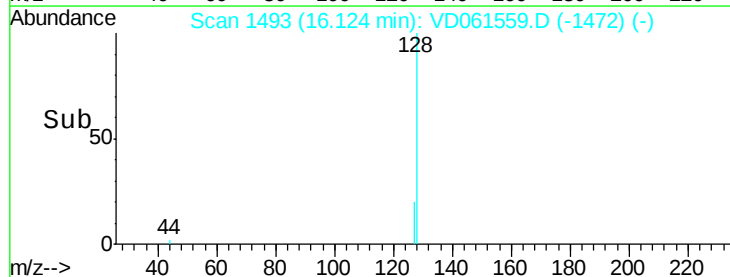
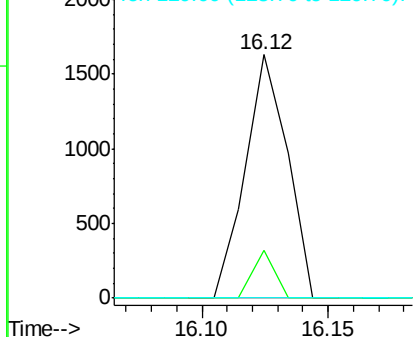


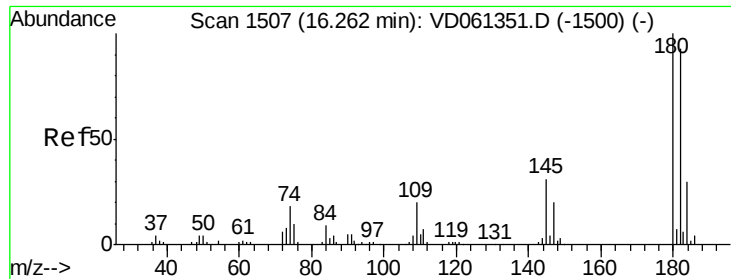
#95
 Naphthalene
 Concen: 12.023 ug/l
 RT: 16.12 min Scan# 1493
 Delta R.T. 0.01 min
 Lab File: VD061559.D
 Acq: 3 Apr 2019 16:53

Tgt Ion:128 Resp: 1888
 Ion Ratio Lower Upper
 128 100
 127 19.8 9.9 14.9#
 129 0.0 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

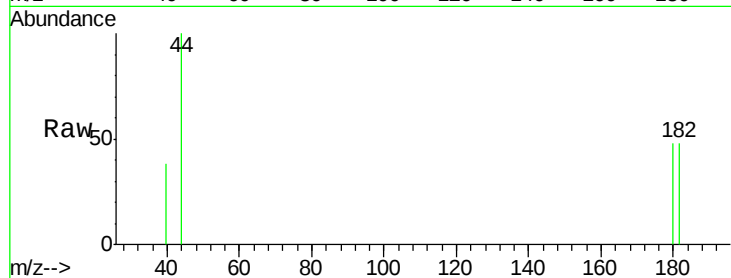




#96
 1,2,3-Trichlorobenzene
 Concen: 5.978 ug/l
 RT: 16.27 min Scan# 1508
 Delta R.T. 0.01 min
 Lab File: VD061559.D
 Acq: 3 Apr 2019 16:53

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:180 Resp: 271
 Ion Ratio Lower Upper
 180 100
 182 100.2 46.4 139.1
 145 0.0 15.3 45.9#



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

