

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041119\
 Data File : VD061750.D
 Acq On : 11 Apr 2019 19:29
 Operator : VA/AP
 Sample : K2347-02
 Misc : 5.03g/5ml/MSVOA D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 12 01:02:38 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	7.05	168	2641	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	7235	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	5258	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	2297	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	3935	196.57	ug/l	-0.01
Spiked Amount			Recovery	=	393.14%	
35) Dibromofluoromethane	6.90	113	3376	67.36	ug/l	-0.02
Spiked Amount			Recovery	=	134.72%	
50) Toluene-d8	10.40	98	3681	29.23	ug/l	0.00
Spiked Amount			Recovery	=	58.46%	
62) 4-Bromofluorobenzene	13.54	95	1932	42.25	ug/l	0.00
Spiked Amount			Recovery	=	84.50%	

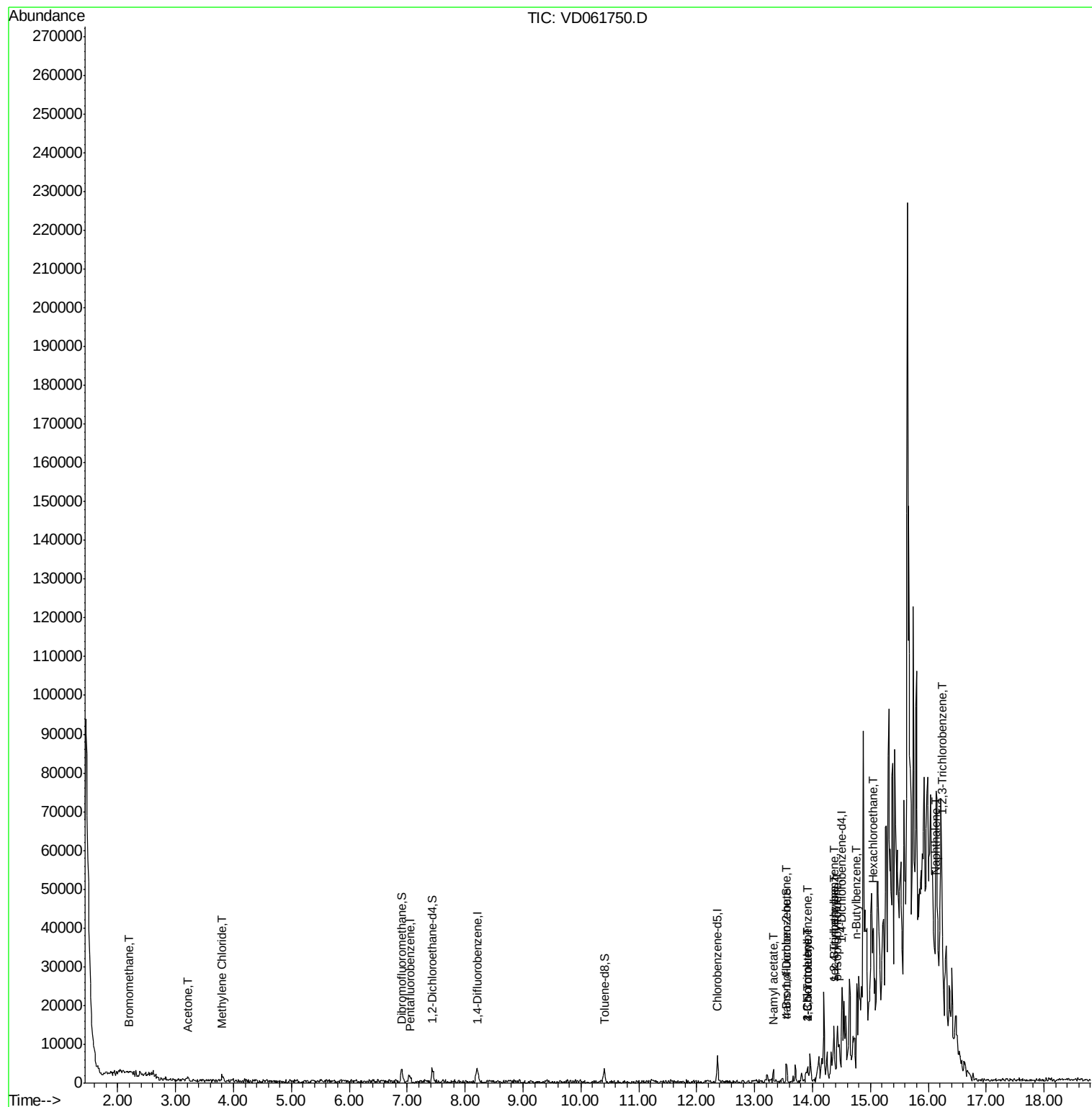
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.18	94	197	39.560	ug/l #	12
16) Acetone	3.21	43	1691	282.576	ug/l #	51
20) Methylene Chloride	3.80	84	1007	29.654	ug/l #	73
74) N-amyl acetate	13.33	43	461	11.086	ug/l #	17
79) 2-Chlorotoluene	13.93	91	222	2.120	ug/l #	35
80) 1,3,5-Trimethylbenzene	13.93	105	949	7.812	ug/l	89
81) trans-1,4-Dichloro-2-buten	13.54	75	290	30.581	ug/l #	20
82) 4-Chlorotoluene	13.93	91	222	1.935	ug/l #	37
84) 1,2,4-Trimethylbenzene	14.36	105	361	2.944	ug/l #	31
85) sec-Butylbenzene	14.36	105	361	2.281	ug/l #	61
86) p-Isopropyltoluene	14.43	119	2625	19.122	ug/l	91
89) n-Butylbenzene	14.77	91	1579	13.233	ug/l #	1
90) Hexachloroethane	15.05	117	501	13.450	ug/l #	26
95) Naphthalene	16.11	128	225	4.429	ug/l #	70
96) 1,2,3-Trichlorobenzene	16.24	180	179	11.172	ug/l #	1

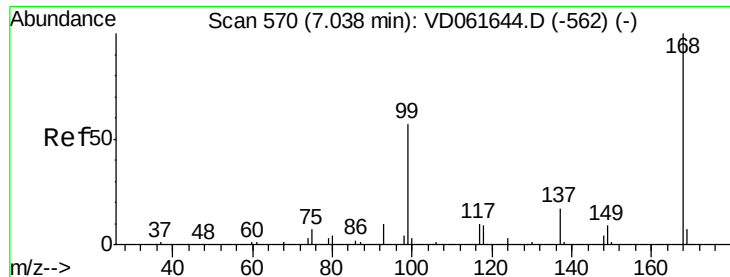
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD041119\
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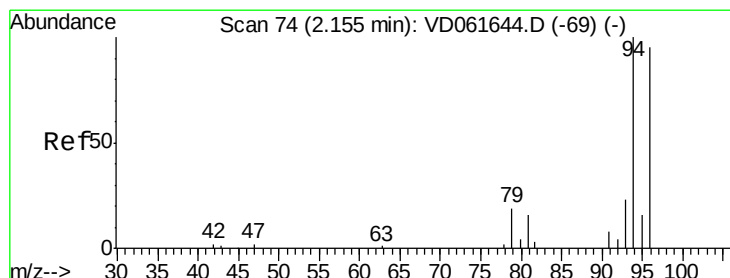
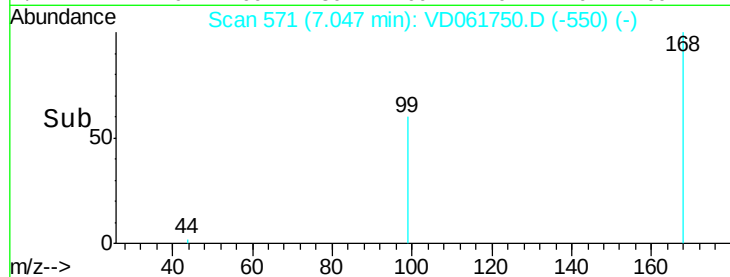
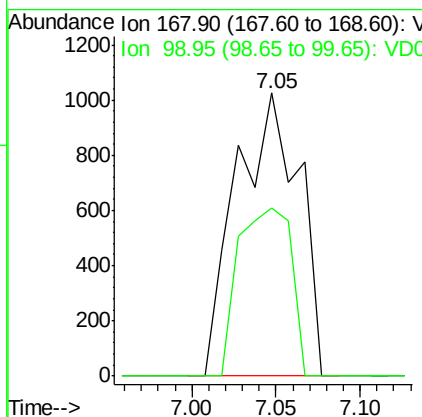
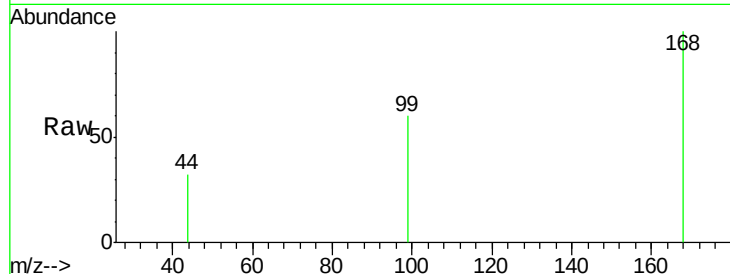




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.05 min Scan# 571
Delta R.T. 0.01 min
Lab File: VD061750.D
Acq: 11 Apr 2019 19:29

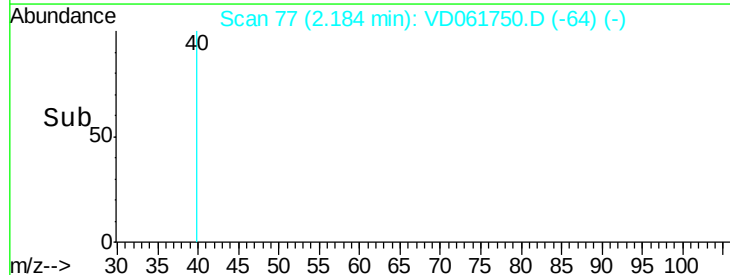
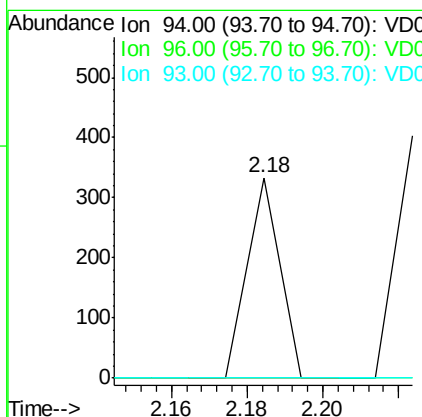
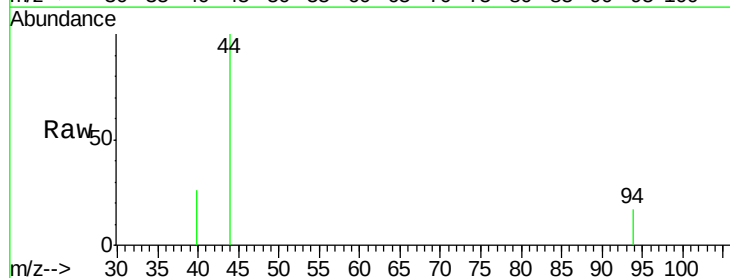
Instrument :
MSVOA_D
ClientSampleId :

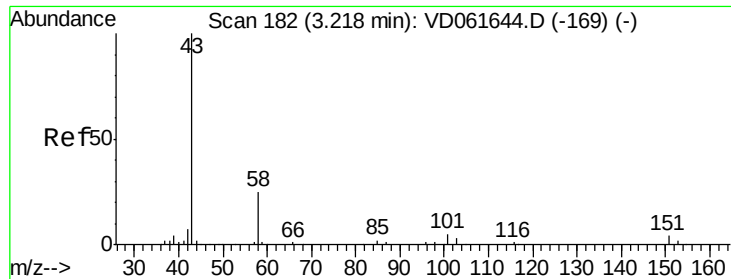
Tot Ion:168 Resp: 2641
Ion Ratio Lower Upper
168 100
99 59.6 46.8 70.2



#5
Bromomethane
Concen: 39.560 ug/l
RT: 2.18 min Scan# 77
Delta R.T. 0.03 min
Lab File: VD061750.D
Acq: 11 Apr 2019 19:29

Tgt Ion: 94 Resp: 197
Ion Ratio Lower Upper
94 100
96 0.0 75.8 113.8#
93 0.0 18.6 28.0#

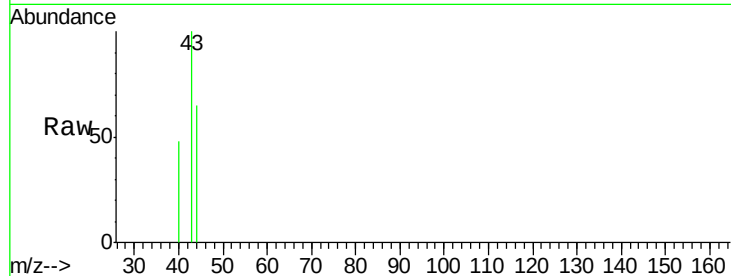




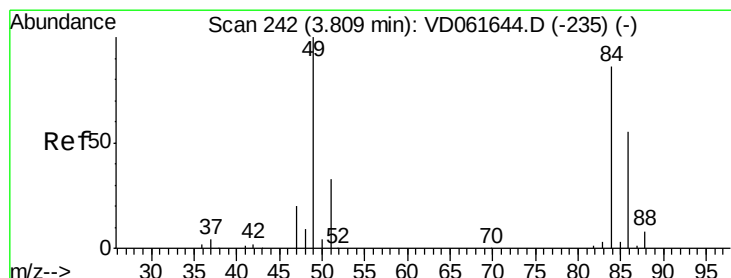
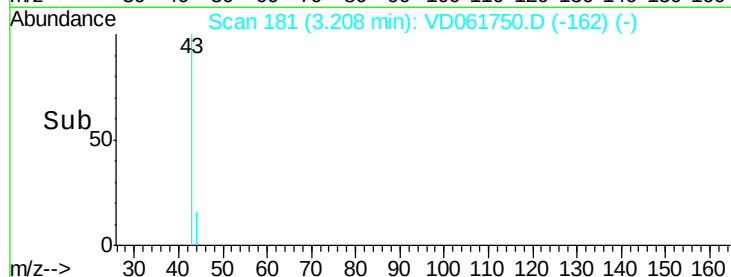
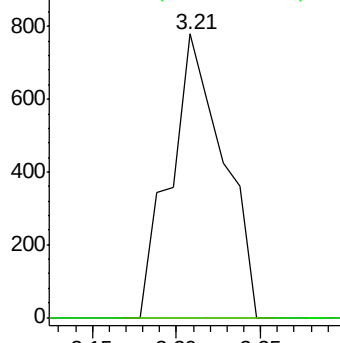
#16
Acetone
Concen: 282.576 ug/l
RT: 3.21 min Scan# 181
Delta R.T. -0.01 min
Lab File: VD061750.D
Acq: 11 Apr 2019 19:29

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 43 Resp: 1691
Ion Ratio Lower Upper
43 100
58 0.0 19.7 29.5#

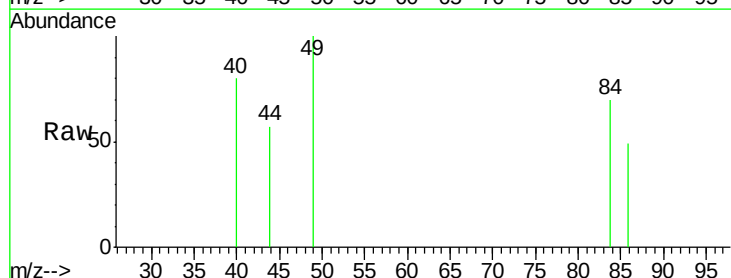


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

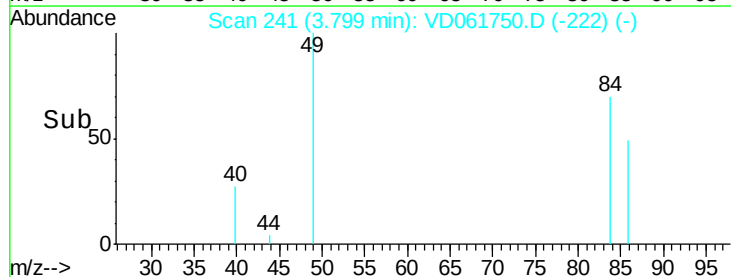
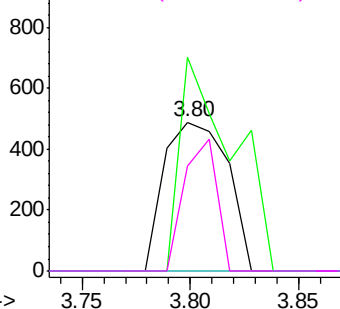


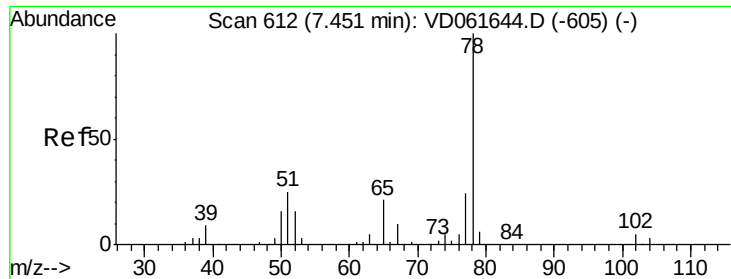
#20
Methylene Chloride
Concen: 29.654 ug/l
RT: 3.80 min Scan# 241
Delta R.T. -0.01 min
Lab File: VD061750.D
Acq: 11 Apr 2019 19:29

Tgt Ion: 84 Resp: 1007
Ion Ratio Lower Upper
84 100
49 143.4 93.0 139.4#
51 0.0 30.4 45.6#
86 70.1 51.0 76.4



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





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.01 min

Lab File: VD061750.D

Acq: 11 Apr 2019 19:29

Instrument :

MSVOA_D

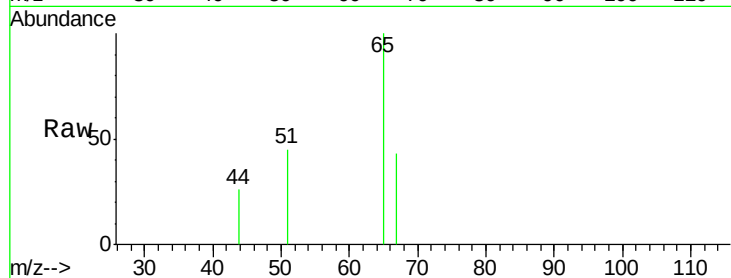
ClientSampleId :

Tot Ion: 65 Resp: 3935

Ion Ratio Lower Upper

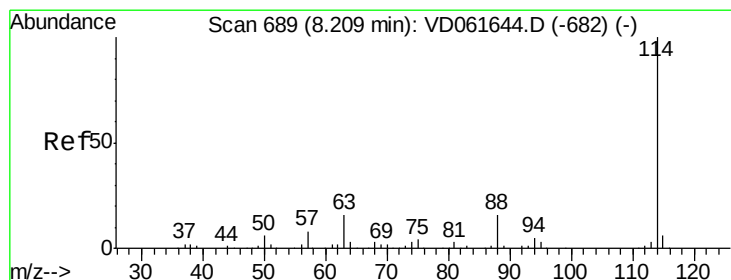
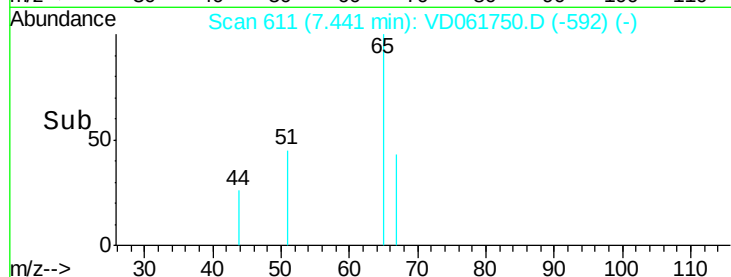
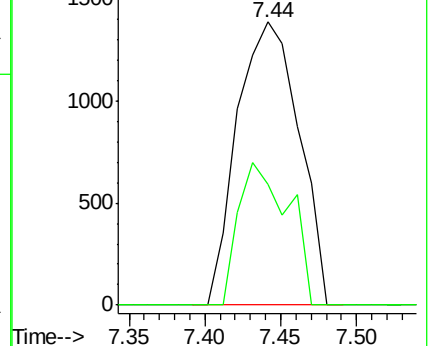
65 100

67 42.5 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: 8.22 min Scan# 690

Delta R.T. 0.01 min

Lab File: VD061750.D

Acq: 11 Apr 2019 19:29

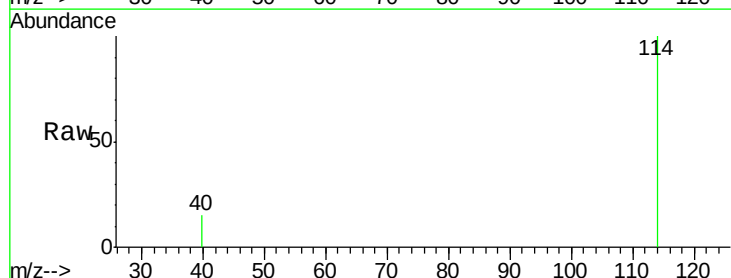
Tgt Ion: 114 Resp: 7235

Ion Ratio Lower Upper

114 100

63 0.0 0.0 31.2

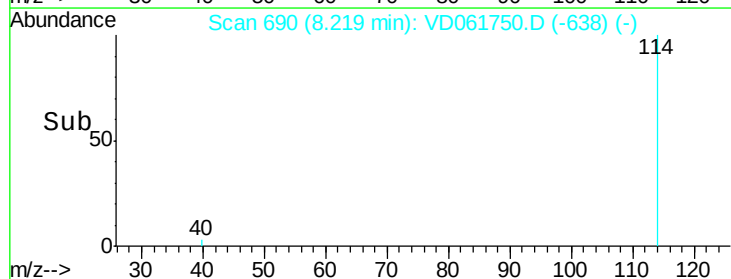
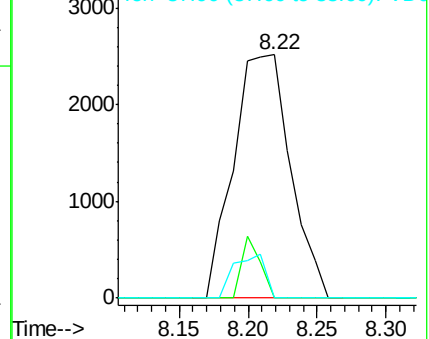
88 0.0 0.0 31.8

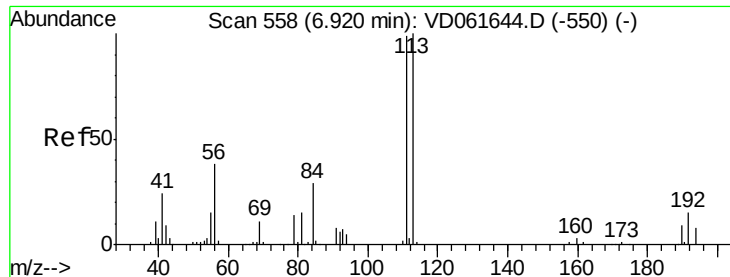


Abundance Ion 114.00 (113.70 to 114.70): V

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: 6.90 min Scan# 556

Delta R.T. -0.02 min

Lab File: VD061750.D

Acq: 11 Apr 2019 19:29

Instrument :
MSVOA_D
ClientSampleId :

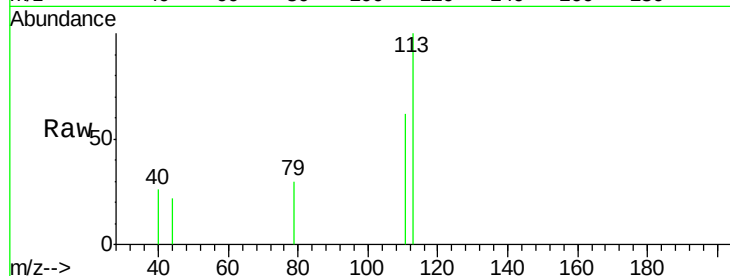
Tot Ion:113 Resp: 3376

Ion Ratio Lower Upper

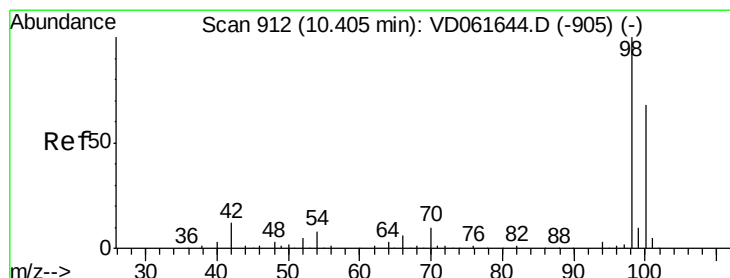
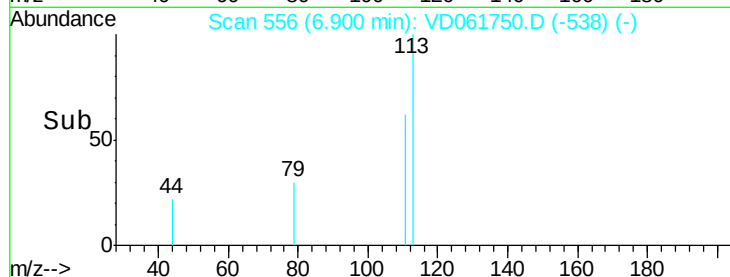
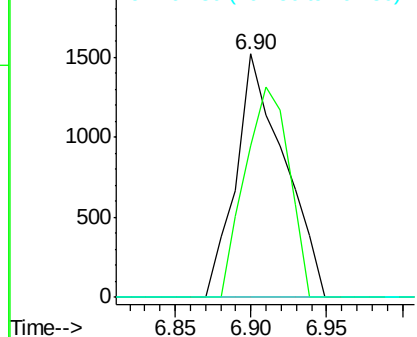
113 100

111 62.4 79.3 118.9#

192 0.0 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



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.40 min Scan# 912

Delta R.T. -0.00 min

Lab File: VD061750.D

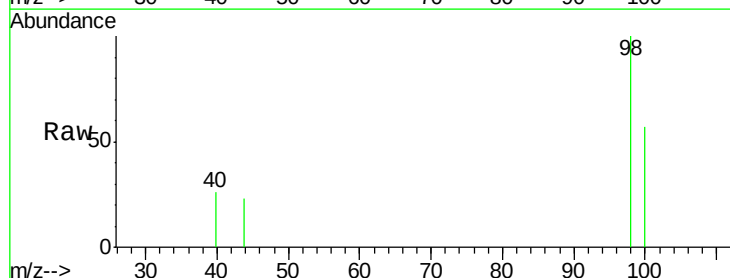
Acq: 11 Apr 2019 19:29

Tgt Ion: 98 Resp: 3681

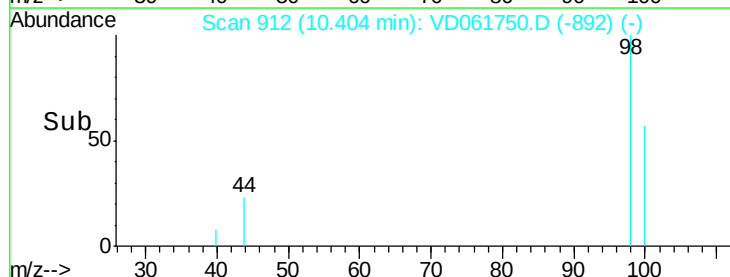
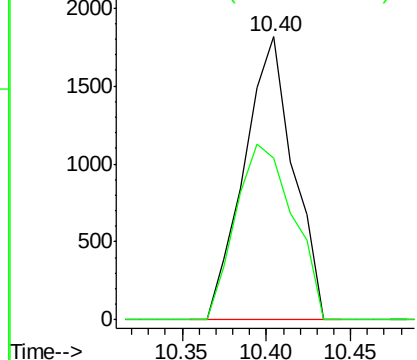
Ion Ratio Lower Upper

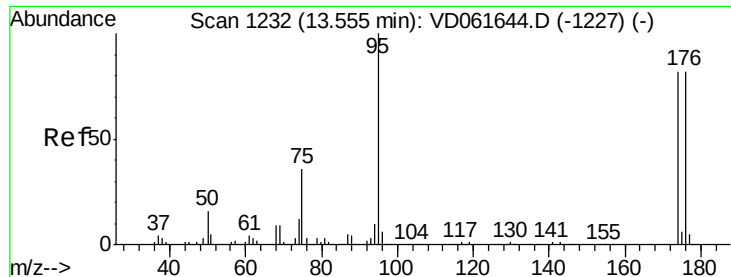
98 100

100 57.4 55.4 83.0



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





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.54 min Scan# 1231

Delta R.T. -0.01 min

Lab File: VD061750.D

Acq: 11 Apr 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

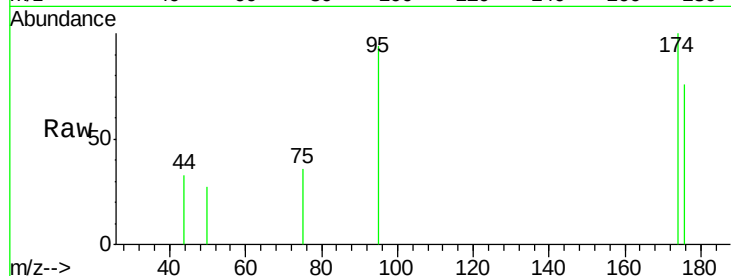
Tot Ion: 95 Resp: 1932

Ion Ratio Lower Upper

95 100

174 105.8 0.0 164.6

176 80.2 0.0 165.0

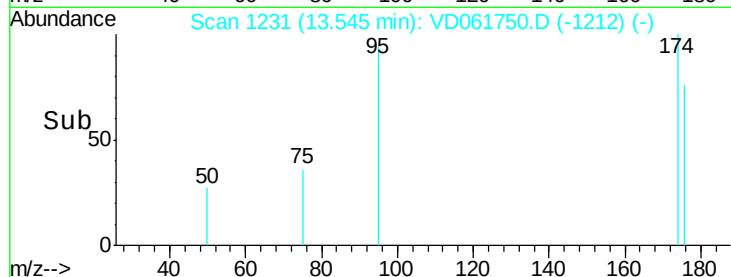


Abundance Ion 95.00 (94.70 to 95.70): VD061644.D (-1227) (-)

Ion 173.90 (173.60 to 174.60): VD061644.D (-1227) (-)

Ion 175.90 (175.60 to 176.60): VD061644.D (-1227) (-)

Time-->

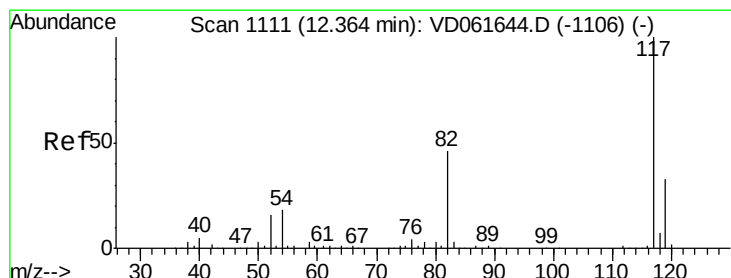


Abundance Ion 95.00 (94.70 to 95.70): VD061750.D (-1212) (-)

Ion 173.90 (173.60 to 174.60): VD061750.D (-1212) (-)

Ion 175.90 (175.60 to 176.60): VD061750.D (-1212) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.36 min Scan# 1111

Delta R.T. -0.00 min

Lab File: VD061750.D

Acq: 11 Apr 2019 19:29

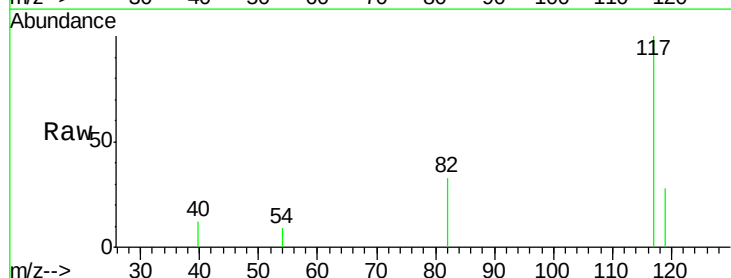
Tgt Ion: 117 Resp: 5258

Ion Ratio Lower Upper

117 100

82 32.8 36.8 55.2#

119 28.4 26.1 39.1

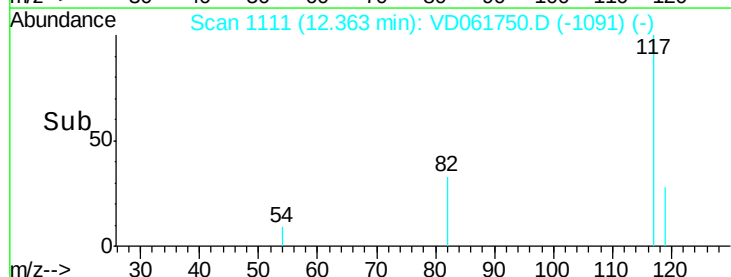


Abundance Ion 116.95 (116.65 to 117.65): VD061644.D (-1106) (-)

Ion 82.05 (81.75 to 82.75): VD061644.D (-1106) (-)

Ion 118.95 (118.65 to 119.65): VD061644.D (-1106) (-)

Time-->

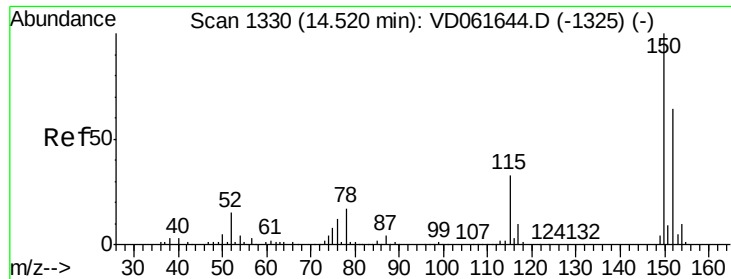


Abundance Ion 116.95 (116.65 to 117.65): VD061750.D (-1091) (-)

Ion 82.05 (81.75 to 82.75): VD061750.D (-1091) (-)

Ion 118.95 (118.65 to 119.65): VD061750.D (-1091) (-)

Time-->

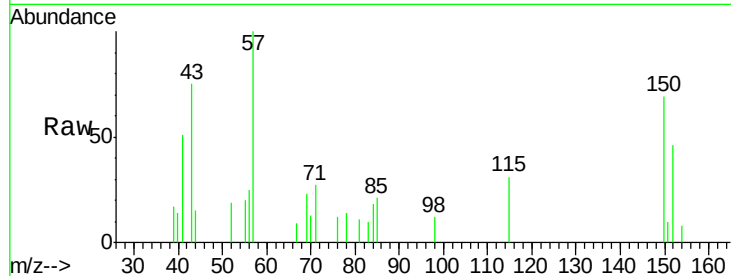


#72

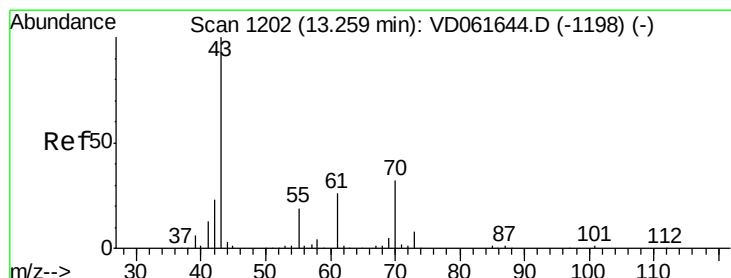
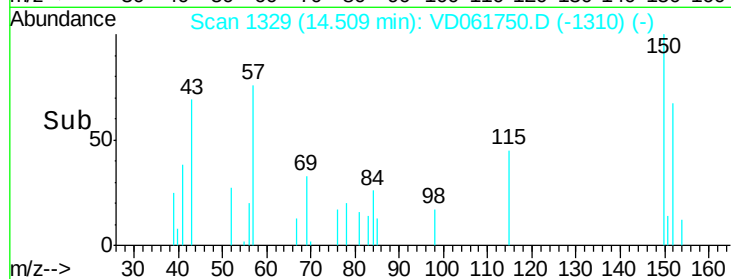
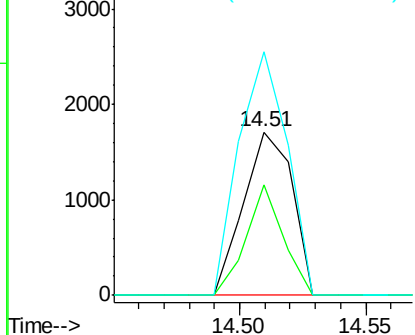
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.01 min
Lab File: VD061750.D
Acq: 11 Apr 2019 19:29

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:152 Resp: 2297
Ion Ratio Lower Upper
152 100
115 67.8 26.4 79.2
150 149.2 0.0 320.6



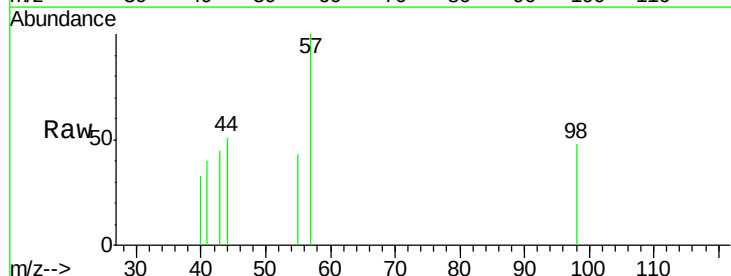
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V



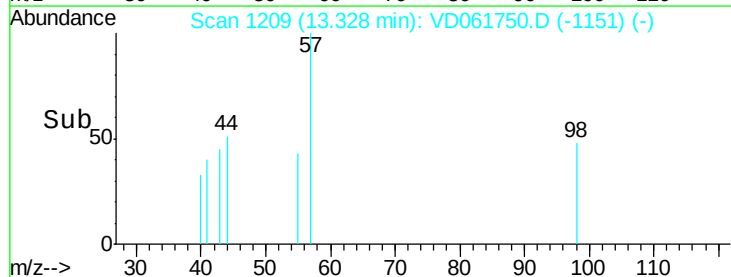
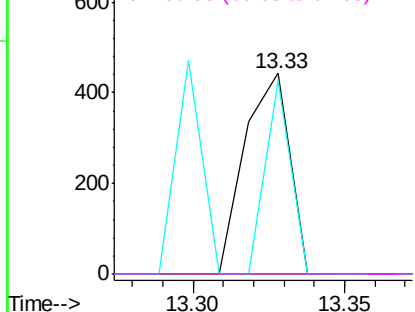
#74

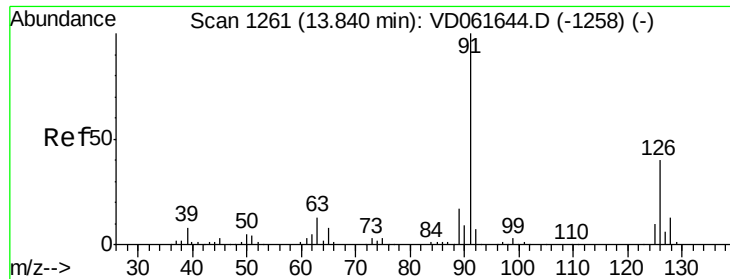
N-amyl acetate
Concen: 11.086 ug/l
RT: 13.33 min Scan# 1209
Delta R.T. 0.07 min
Lab File: VD061750.D
Acq: 11 Apr 2019 19:29

Tgt Ion: 43 Resp: 461
Ion Ratio Lower Upper
43 100
70 0.0 25.4 38.2#
55 96.4 15.0 22.4#
61 0.0 20.9 31.3#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 70.00 (69.70 to 70.70): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 60.95 (60.65 to 61.65): VDC





#79

2-Chlorotoluene

Concen: 2.120 ug/l

RT: 13.93 min Scan# 1270

Delta R.T. 0.09 min

Lab File: VD061750.D

Acq: 11 Apr 2019 19:29

Instrument :

MSVOA_D

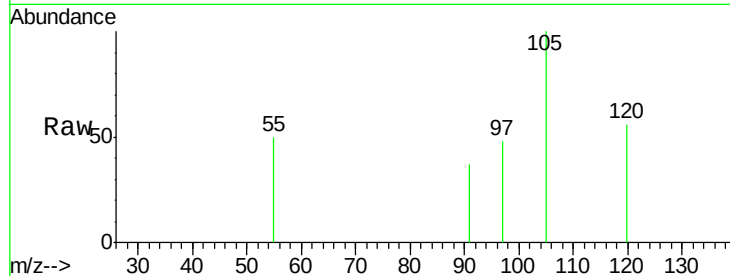
ClientSampleId :

Tot Ion: 91 Resp: 222

Ion Ratio Lower Upper

91 100

126 0.0 20.0 59.9#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V

13.93

400

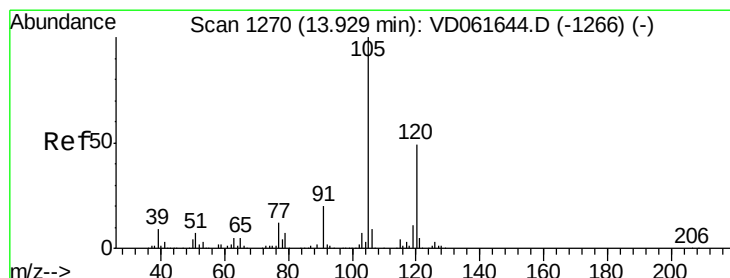
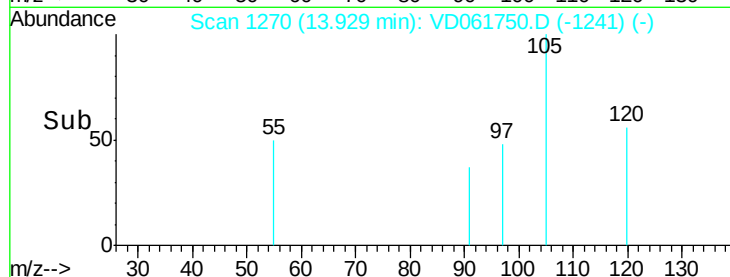
300

200

100

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 7.812 ug/l

RT: 13.93 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VD061750.D

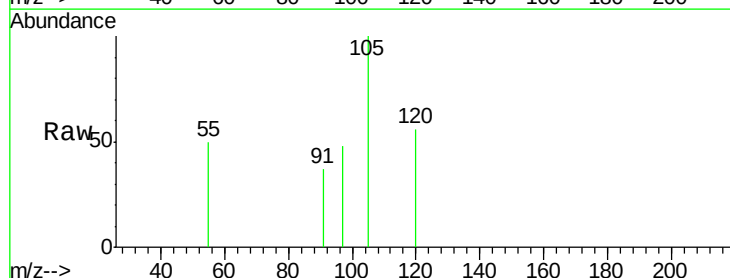
Acq: 11 Apr 2019 19:29

Tgt Ion: 105 Resp: 949

Ion Ratio Lower Upper

105 100

120 56.1 24.4 73.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

13.93

1200

1000

800

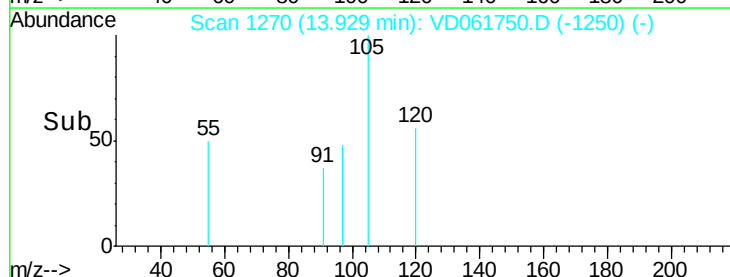
600

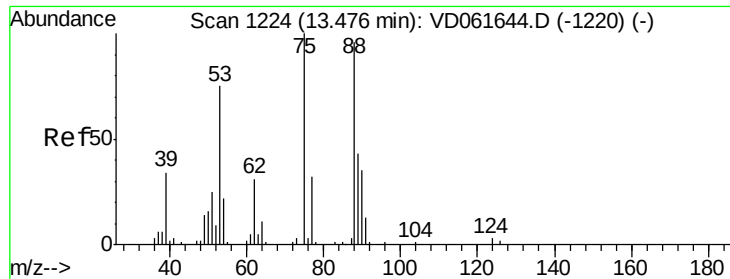
400

200

0

Time-->

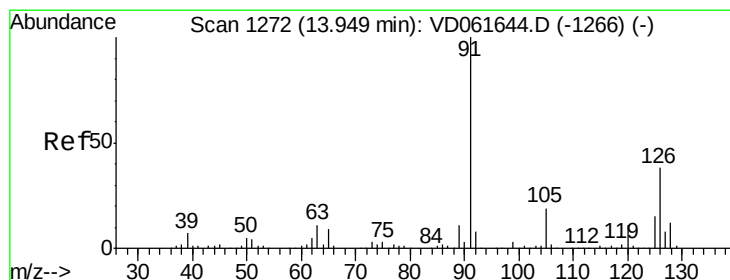
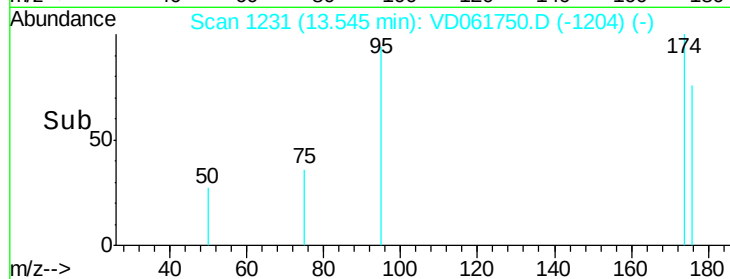
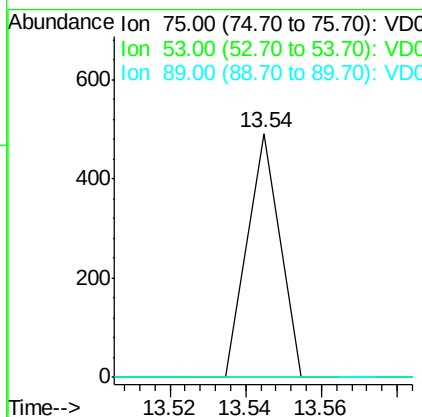
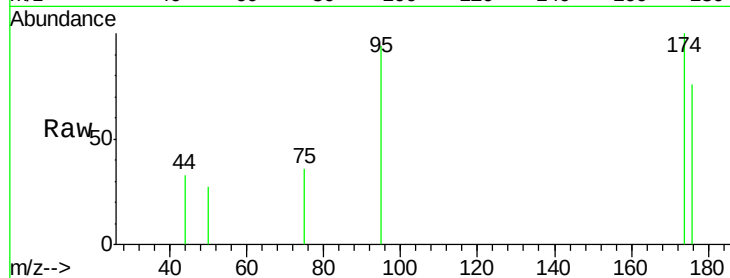




#81
trans-1,4-Dichloro-2-butene
Concen: 30.581 ug/l
RT: 13.54 min Scan# 1231
Delta R.T. 0.07 min
Lab File: VD061750.D
Acq: 11 Apr 2019 19:29

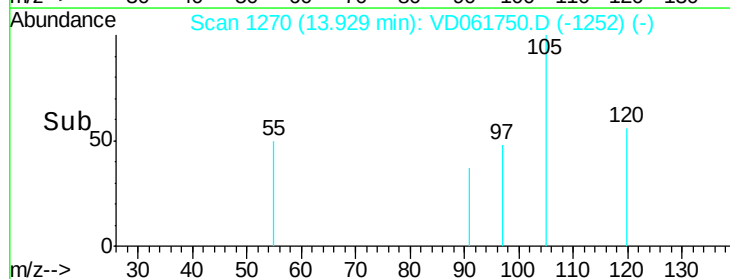
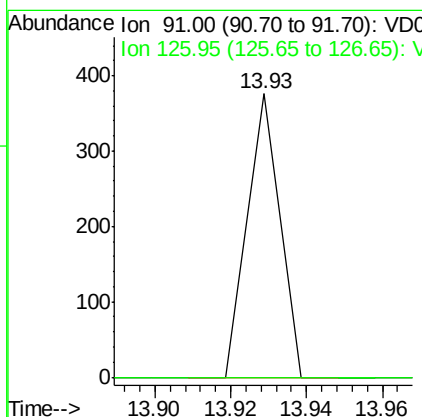
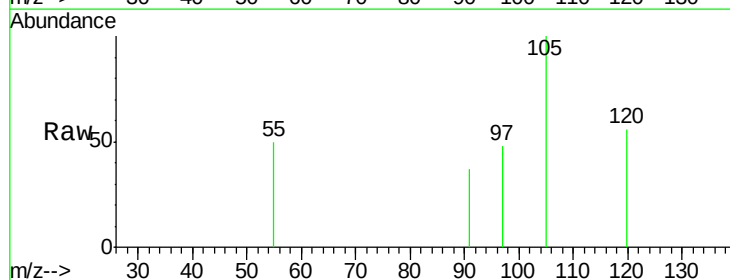
Instrument :
MSVOA_D
ClientSampleId :

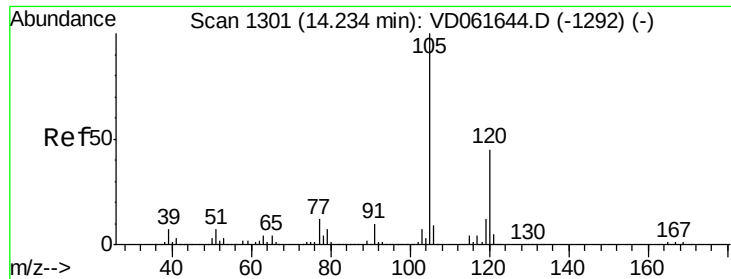
Tot Ion: 75 Resp: 290
Ion Ratio Lower Upper
75 100
53 0.0 60.2 90.2#
89 0.0 34.2 51.2#



#82
4-Chlorotoluene
Concen: 1.935 ug/l
RT: 13.93 min Scan# 1270
Delta R.T. -0.02 min
Lab File: VD061750.D
Acq: 11 Apr 2019 19:29

Tgt Ion: 91 Resp: 222
Ion Ratio Lower Upper
91 100
126 0.0 19.0 57.0#





#84

1,2,4-Trimethylbenzene

Concen: 2.944 ug/l

RT: 14.36 min Scan# 1314

Delta R.T. 0.13 min

Lab File: VD061750.D

Acq: 11 Apr 2019 19:29

Instrument :

MSVOA_D

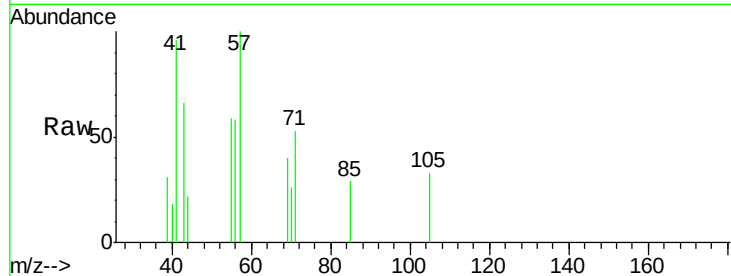
ClientSampleId :

Tot Ion:105 Resp: 361

Ion Ratio Lower Upper

105 100

120 0.0 22.6 67.8#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

14.36

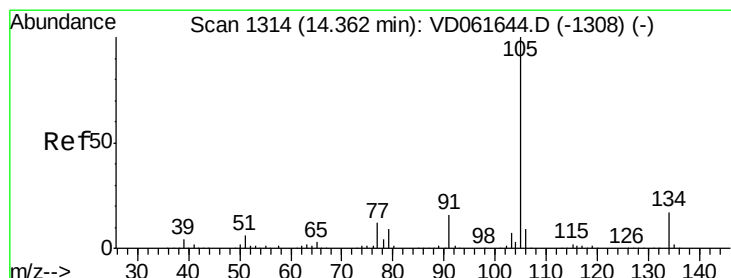
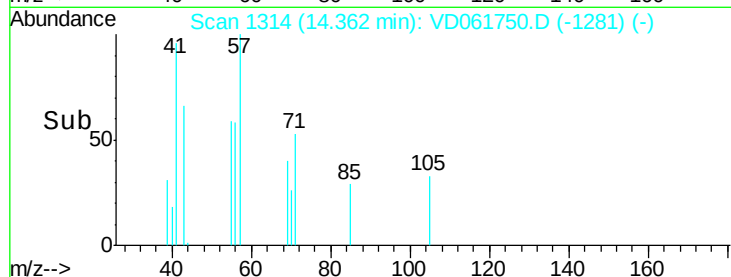
600

400

200

0

Time--> 14.34 14.36 14.38



#85

sec-Butylbenzene

Concen: 2.281 ug/l

RT: 14.36 min Scan# 1314

Delta R.T. -0.00 min

Lab File: VD061750.D

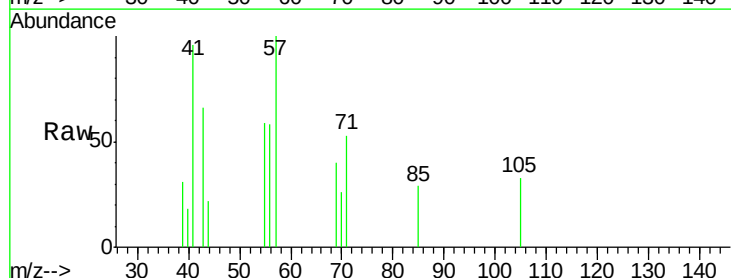
Acq: 11 Apr 2019 19:29

Tgt Ion:105 Resp: 361

Ion Ratio Lower Upper

105 100

134 0.0 8.6 25.7#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V

14.36

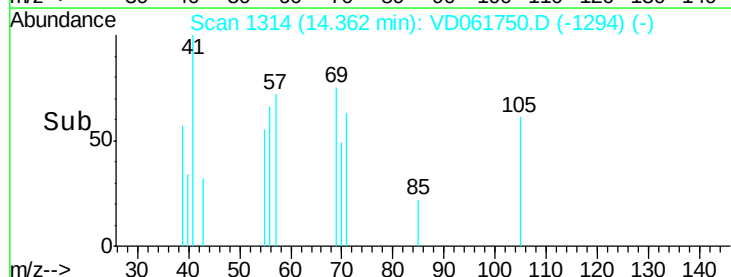
600

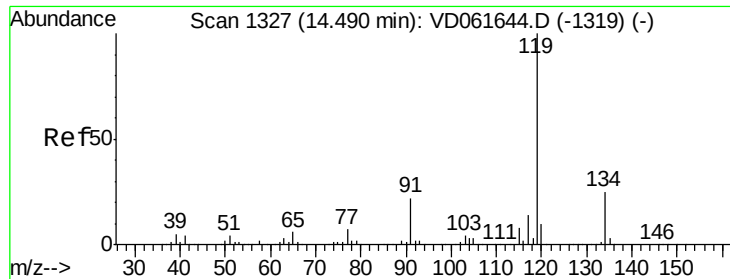
400

200

0

Time--> 14.34 14.36 14.38

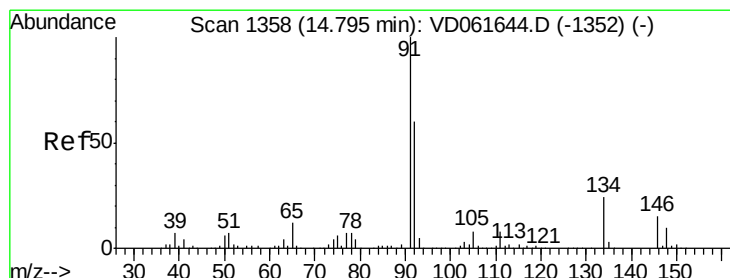
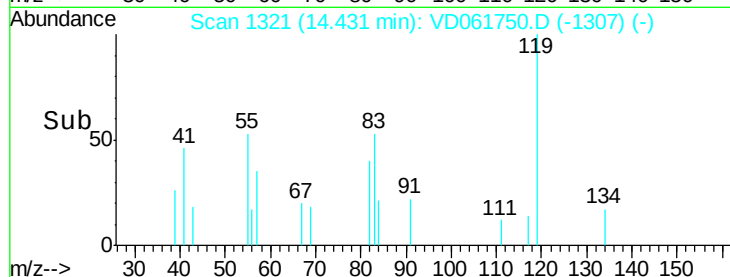
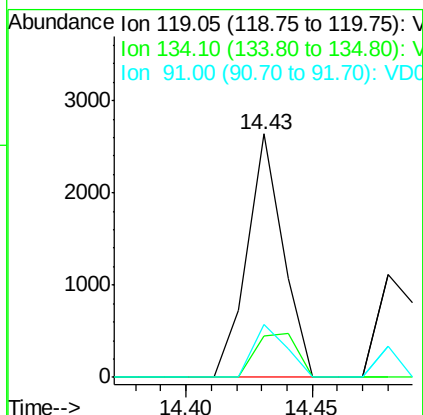
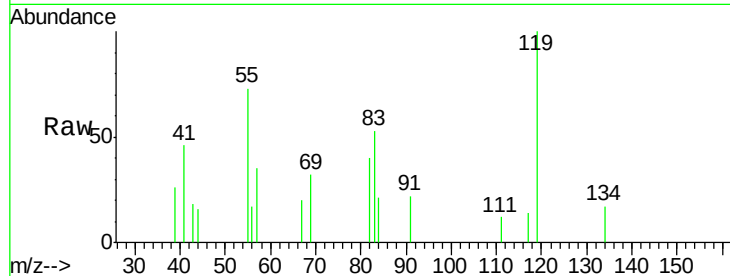




#86
 p-Isopropyltoluene
 Concen: 19.122 ug/l
 RT: 14.43 min Scan# 1321
 Delta R.T. -0.06 min
 Lab File: VD061750.D
 Acq: 11 Apr 2019 19:29

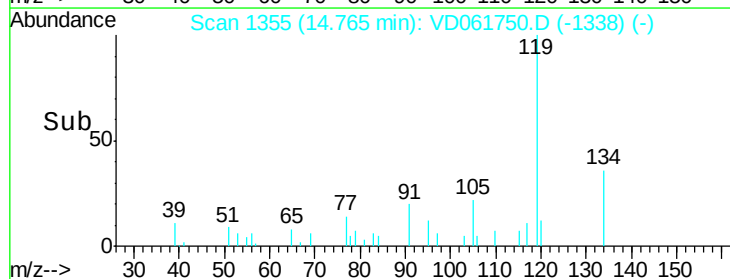
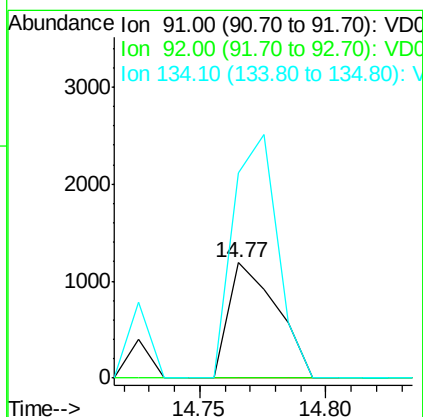
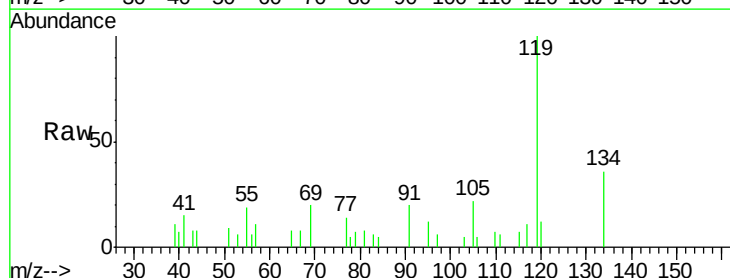
Instrument :
 MSVOA_D
 ClientSampleId :

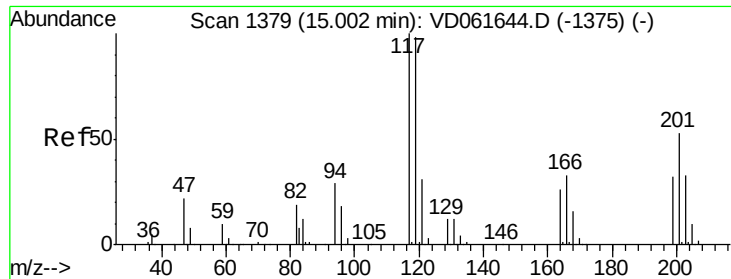
Tot Ion:119 Resp: 2625
 Ion Ratio Lower Upper
 119 100
 134 17.0 12.5 37.5
 91 21.7 11.0 33.0



#89
 n-Butylbenzene
 Concen: 13.233 ug/l
 RT: 14.77 min Scan# 1355
 Delta R.T. -0.03 min
 Lab File: VD061750.D
 Acq: 11 Apr 2019 19:29

Tgt Ion: 91 Resp: 1579
 Ion Ratio Lower Upper
 91 100
 92 0.0 29.8 89.4#
 134 178.3 12.2 36.4#





#90

Hexachloroethane

Concen: 13.450 ug/l

RT: 15.05 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VD061750.D

Acq: 11 Apr 2019 19:29

Instrument :

MSVOA_D

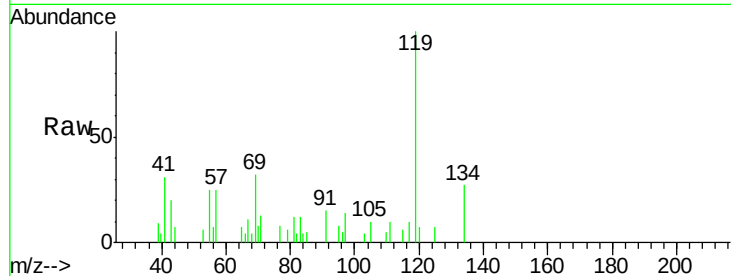
ClientSampled :

Tot Ion:117 Resp: 501

Ion Ratio Lower Upper

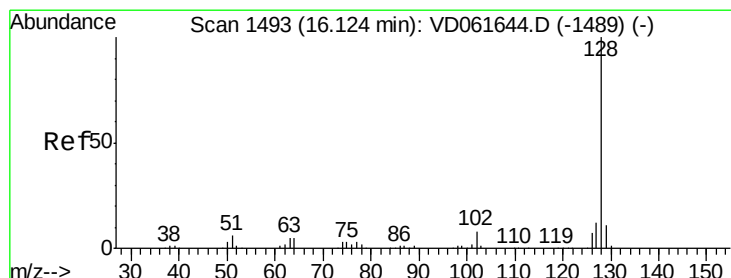
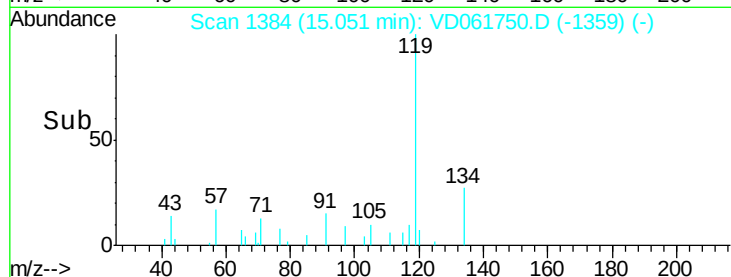
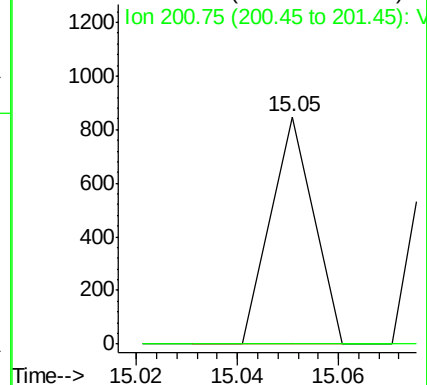
117 100

201 0.0 26.3 78.8#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V



#95

Naphthalene

Concen: 4.429 ug/l

RT: 16.11 min Scan# 1492

Delta R.T. -0.01 min

Lab File: VD061750.D

Acq: 11 Apr 2019 19:29

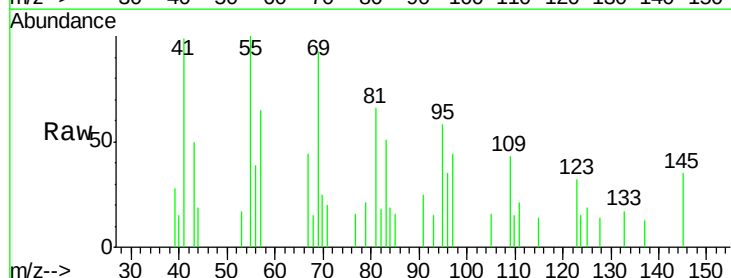
Tgt Ion:128 Resp: 225

Ion Ratio Lower Upper

128 100

127 0.0 9.4 14.2#

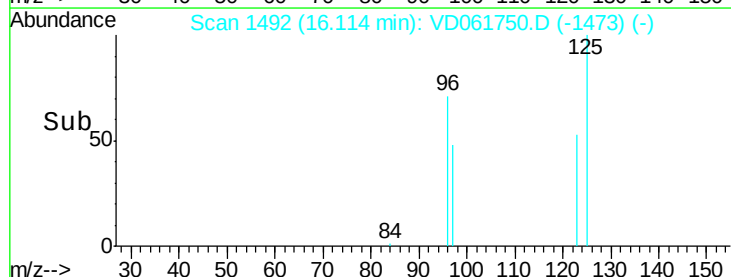
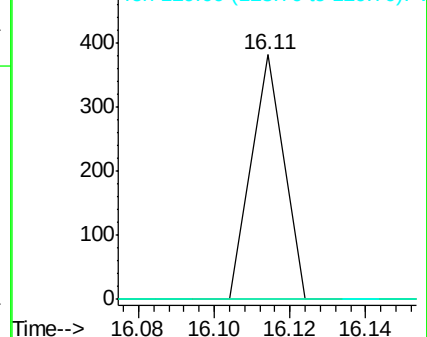
129 0.0 8.8 13.2#

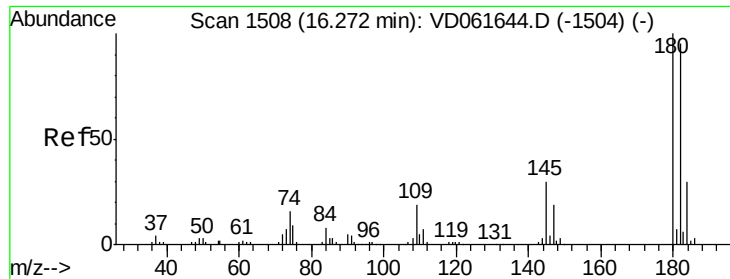


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96

1,2,3-Trichlorobenzene

Concen: 11.172 ug/l

RT: 16.24 min Scan# 1505

Delta R.T. -0.03 min

Lab File: VD061750.D

Acq: 11 Apr 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

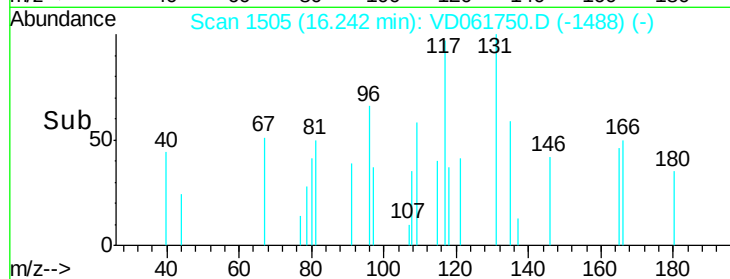
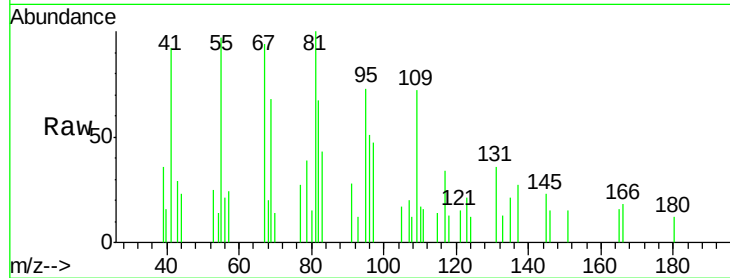
Tot Ion:180 Resp: 179

Ion Ratio Lower Upper

180 100

182 0.0 47.3 142.0#

145 189.1 15.1 45.3#



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

