

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041119\
 Data File : VD061751.D
 Acq On : 11 Apr 2019 19:56
 Operator : VA/AP
 Sample : K2347-03
 Misc : 5.07µl/5ml/MSVOA D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 12 01:02:52 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	7.03	168	2804	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.20	114	7063	50.00	ug/l	-0.01
63) Chlorobenzene-d5	12.35	117	3699	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	14.51	152	2216	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	4690	220.66	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	441.32%	
35) Dibromofluoromethane	6.91	113	4200	85.84	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	171.68%	
50) Toluene-d8	10.39	98	2961	24.09	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	48.18%	
62) 4-Bromofluorobenzene	13.54	95	2259	52.92	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	105.84%	

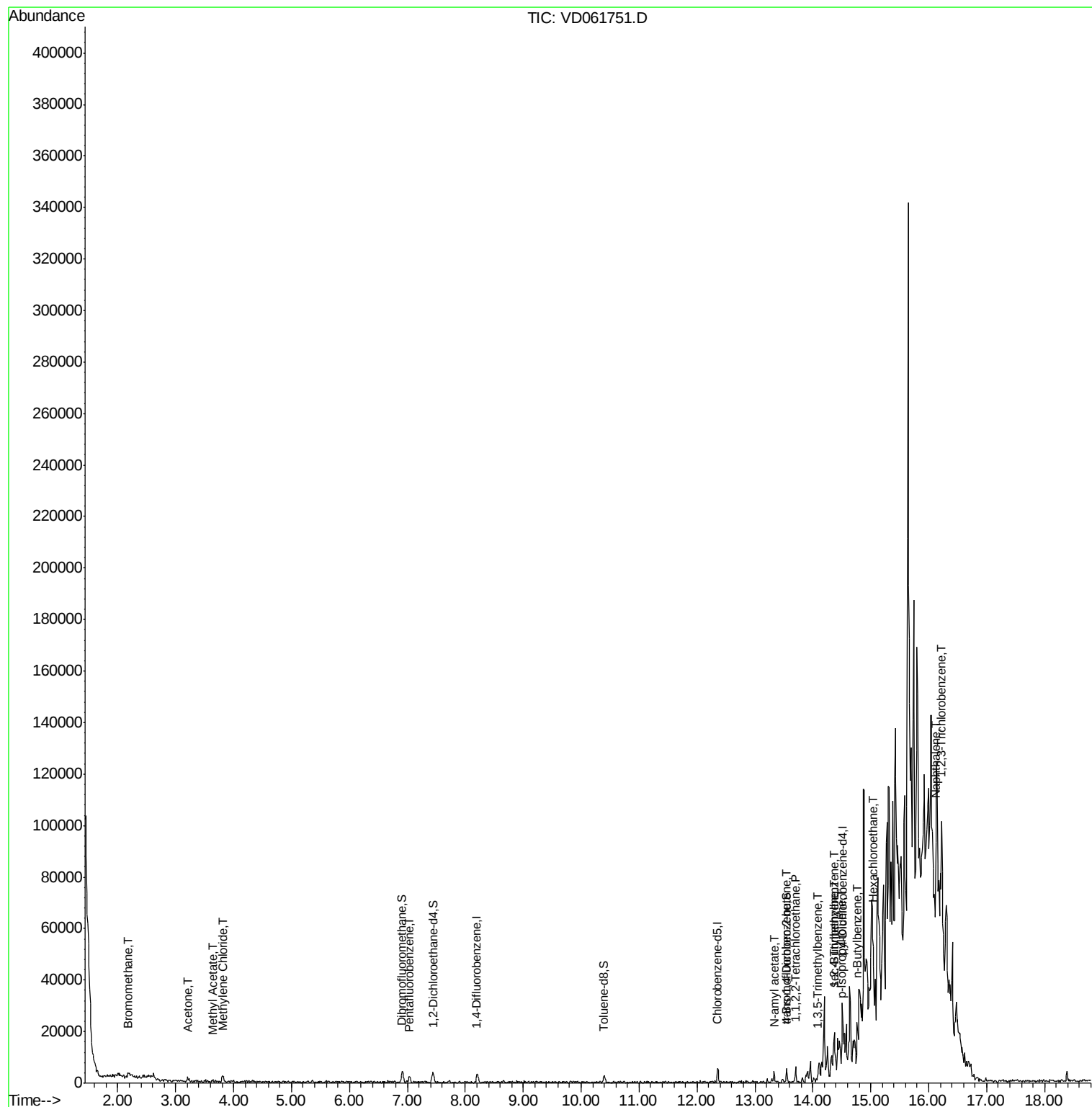
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.18	94	392	74.143	ug/l #	12
16) Acetone	3.21	43	2685	422.597	ug/l #	51
18) Methyl Acetate	3.64	43	471	39.401	ug/l #	53
20) Methylene Chloride	3.81	84	1460	40.495	ug/l #	82
74) N-amyl acetate	13.34	43	846	21.088	ug/l #	49
75) 1,1,2,2-Tetrachloroethane	13.70	83	187	6.125	ug/l #	26
80) 1,3,5-Trimethylbenzene	14.08	105	713	6.084	ug/l #	28
81) trans-1,4-Dichloro-2-buten	13.54	75	641	70.064	ug/l #	20
84) 1,2,4-Trimethylbenzene	14.36	105	193	1.632	ug/l #	31
85) sec-Butylbenzene	14.36	105	193	1.264	ug/l #	61
86) p-Isopropyltoluene	14.49	119	695	5.248	ug/l #	52
89) n-Butylbenzene	14.77	91	1049	9.113	ug/l #	1
90) Hexachloroethane	15.05	117	271	7.541	ug/l #	26
95) Naphthalene	16.11	128	917	18.712	ug/l #	28
96) 1,2,3-Trichlorobenzene	16.23	180	537	34.741	ug/l #	1

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.01 min

Lab File: VD061751.D

Acq: 11 Apr 2019 19:56

Instrument :

MSVOA_D

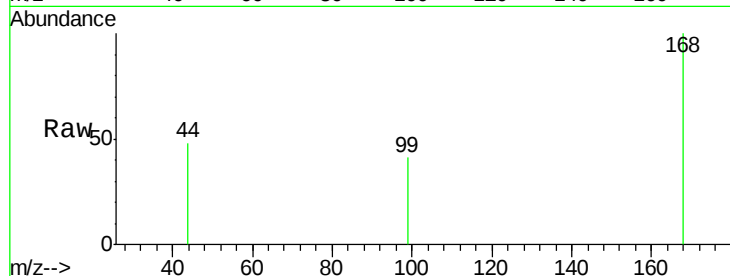
ClientSampleId :

Tot Ion:168 Resp: 2804

Ion Ratio Lower Upper

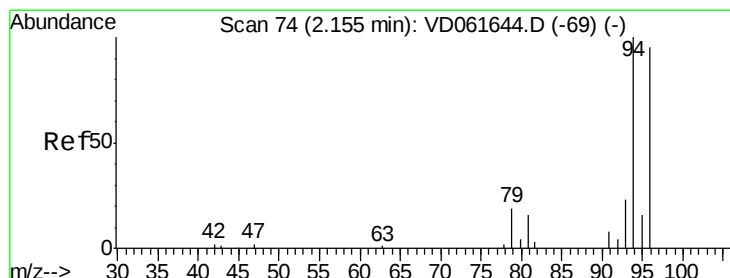
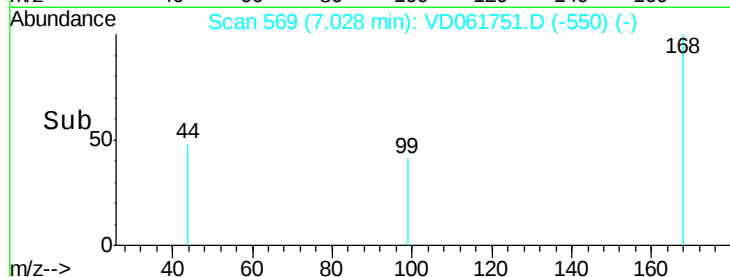
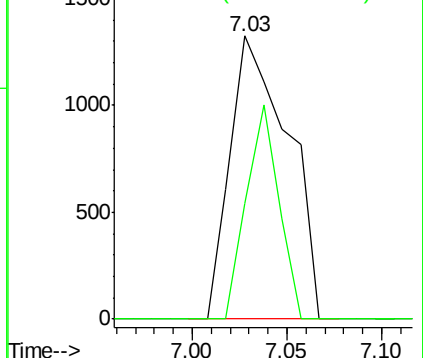
168 100

99 40.8 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: 74.143 ug/l

RT: 2.18 min Scan# 77

Delta R.T. 0.03 min

Lab File: VD061751.D

Acq: 11 Apr 2019 19:56

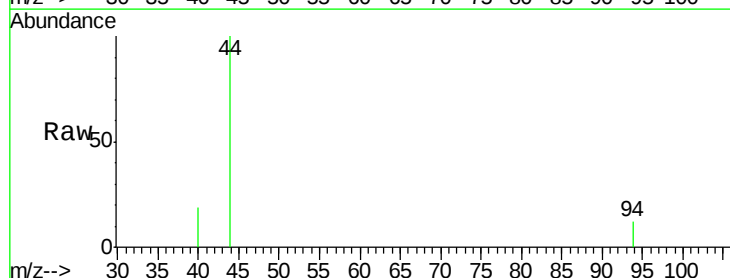
Tgt Ion: 94 Resp: 392

Ion Ratio Lower Upper

94 100

96 0.0 75.8 113.8#

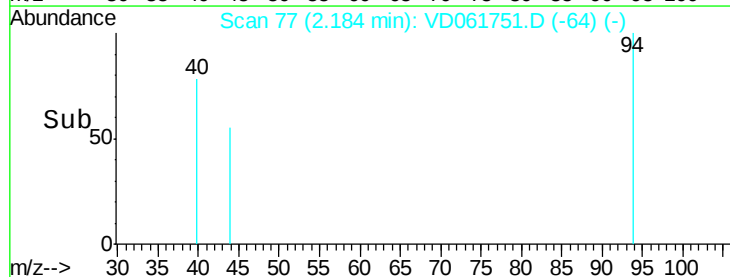
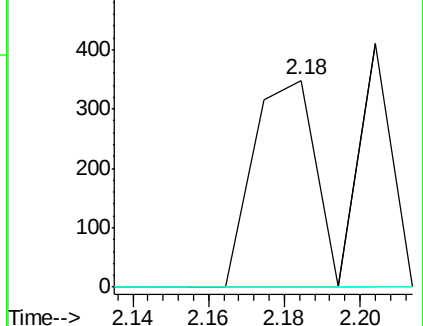
93 0.0 18.6 28.0#



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

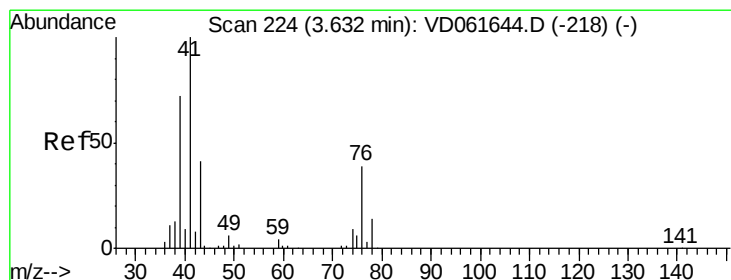
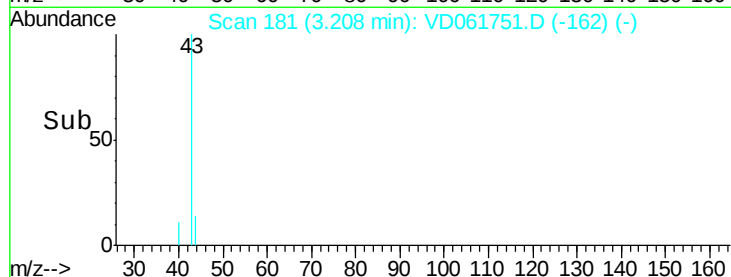
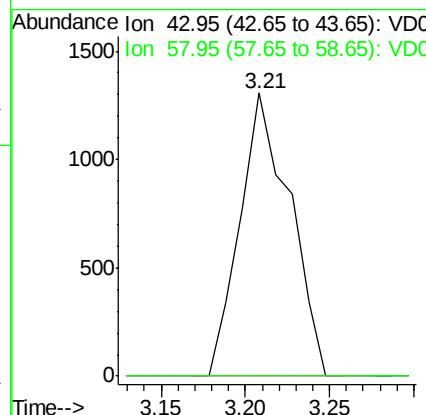
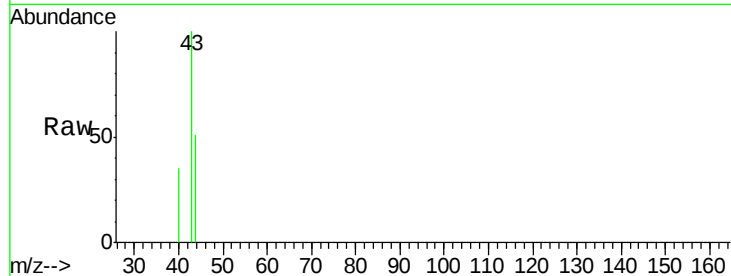




#16
Acetone
Concen: 422.597 ug/l
RT: 3.21 min Scan# 181
Delta R.T. -0.01 min
Lab File: VD061751.D
Acq: 11 Apr 2019 19:56

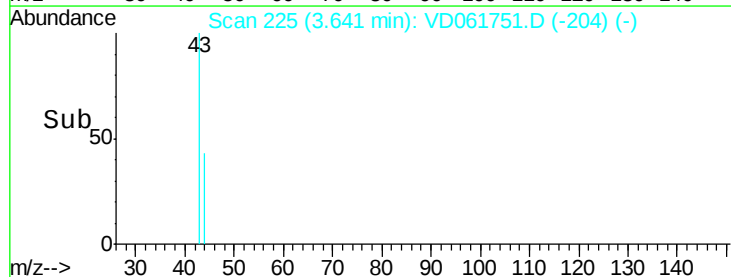
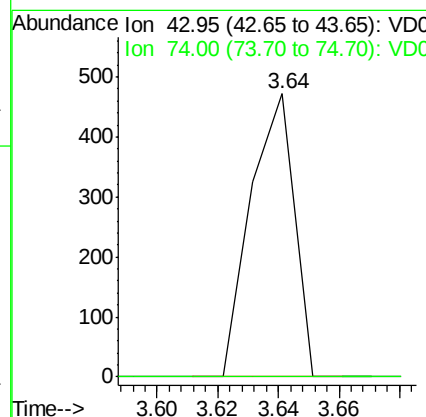
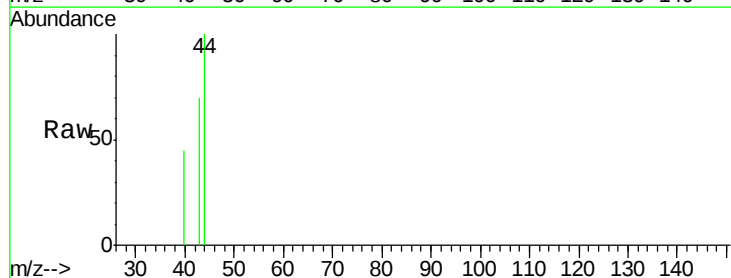
Instrument :
MSVOA_D
ClientSampleId :

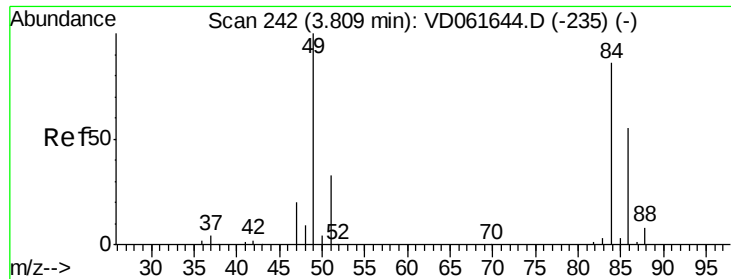
Tot Ion: 43 Resp: 2685
Ion Ratio Lower Upper
43 100
58 0.0 19.7 29.5#



#18
Methyl Acetate
Concen: 39.401 ug/l
RT: 3.64 min Scan# 225
Delta R.T. 0.01 min
Lab File: VD061751.D
Acq: 11 Apr 2019 19:56

Tgt Ion: 43 Resp: 471
Ion Ratio Lower Upper
43 100
74 0.0 18.2 27.2#

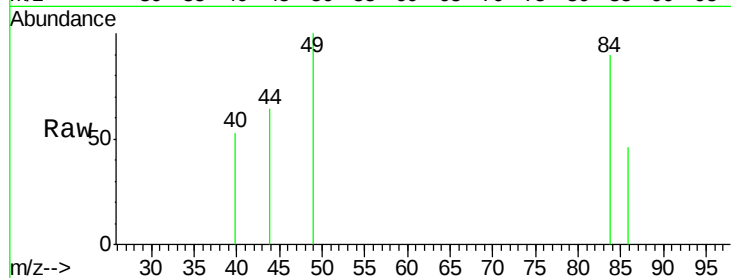




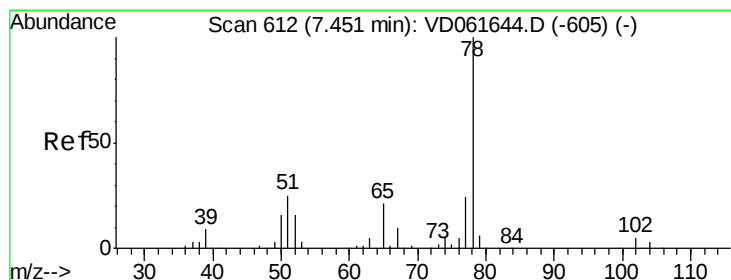
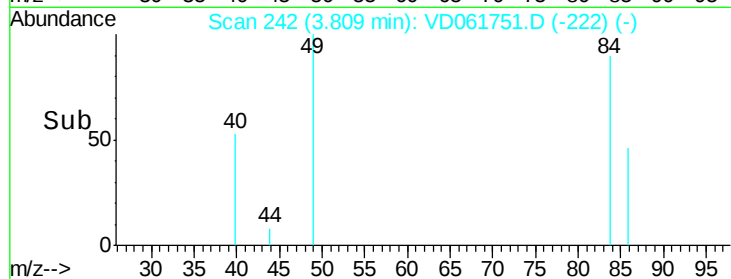
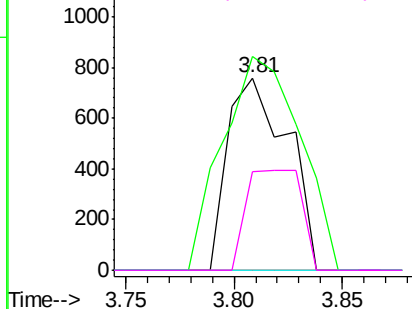
#20
Methylene Chloride
Concen: 40.495 ug/l
RT: 3.81 min Scan# 242
Delta R.T. 0.00 min
Lab File: VD061751.D
Acq: 11 Apr 2019 19:56

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 84 Resp: 1460
Ion Ratio Lower Upper
84 100
49 111.2 93.0 139.4
51 0.0 30.4 45.6#
86 51.2 51.0 76.4

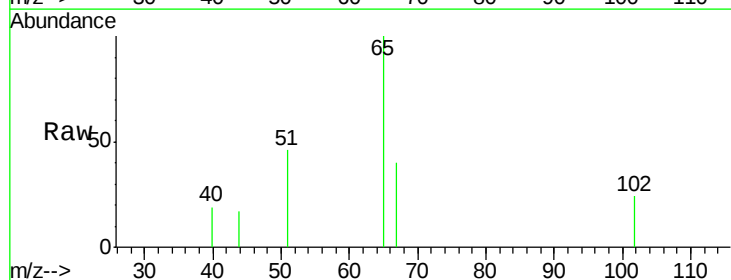


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

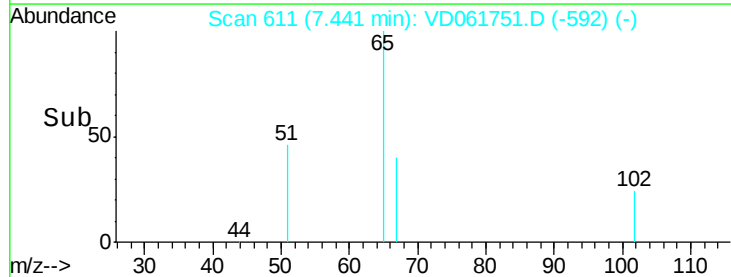
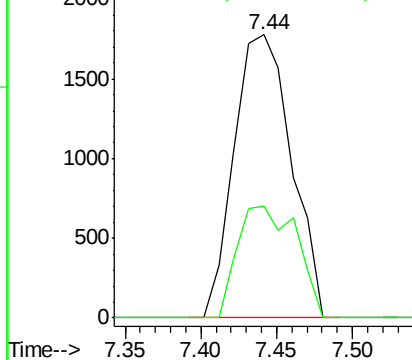


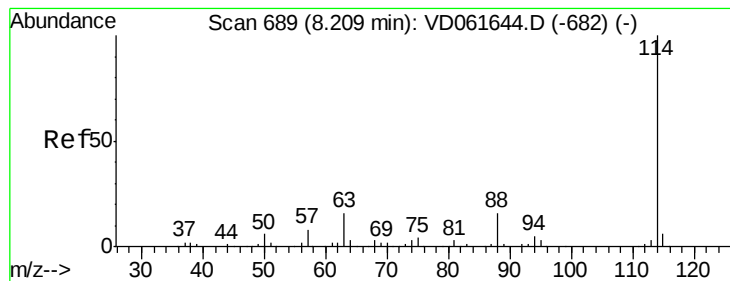
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 7.44 min Scan# 611
Delta R.T. -0.01 min
Lab File: VD061751.D
Acq: 11 Apr 2019 19:56

Tgt Ion: 65 Resp: 4690
Ion Ratio Lower Upper
65 100
67 39.6 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: 8.20 min Scan# 688

Delta R.T. -0.01 min

Lab File: VD061751.D

Acq: 11 Apr 2019 19:56

Instrument :

MSVOA_D

ClientSampleId :

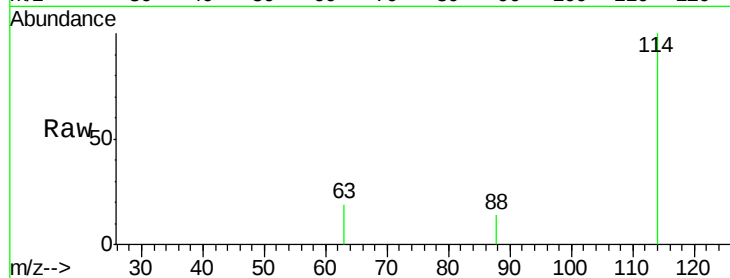
Tot Ion:114 Resp: 7063

Ion Ratio Lower Upper

114 100

63 18.8 0.0 31.2

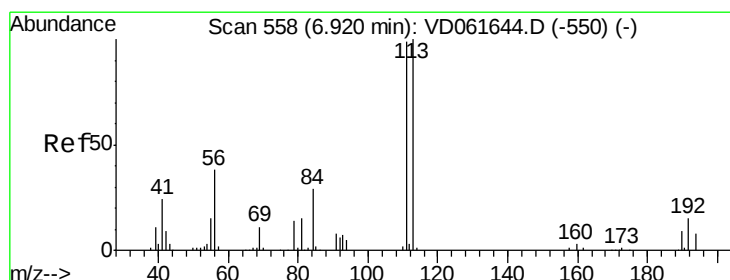
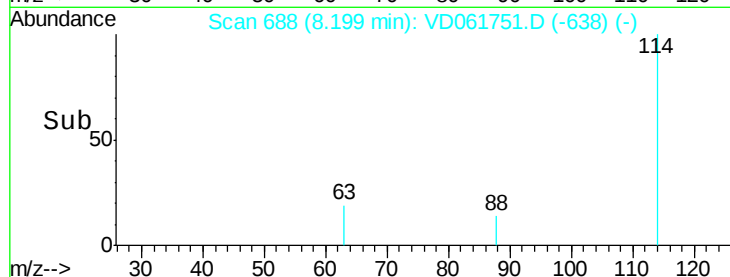
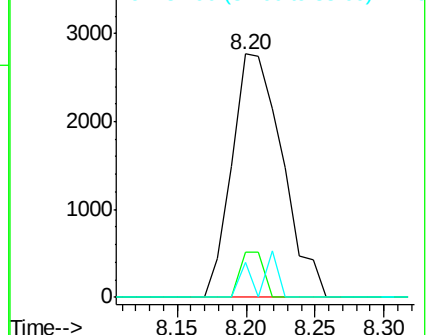
88 14.3 0.0 31.8



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: 6.91 min Scan# 557

Delta R.T. -0.01 min

Lab File: VD061751.D

Acq: 11 Apr 2019 19:56

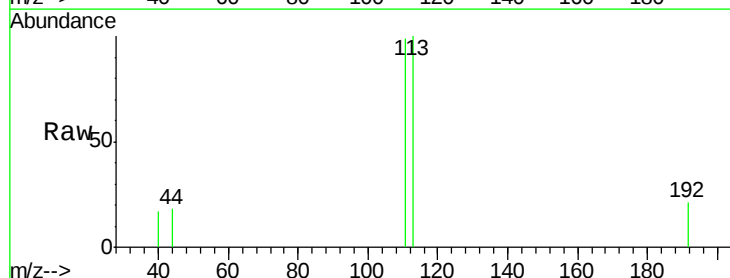
Tgt Ion:113 Resp: 4200

Ion Ratio Lower Upper

113 100

111 98.9 79.3 118.9

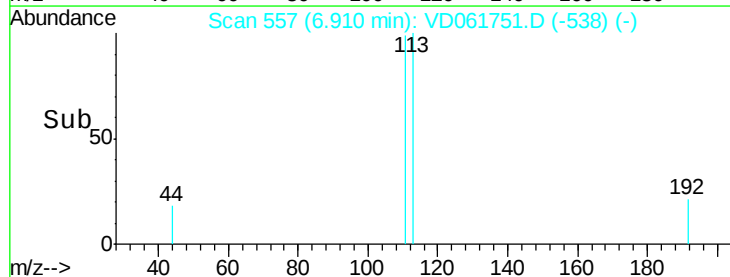
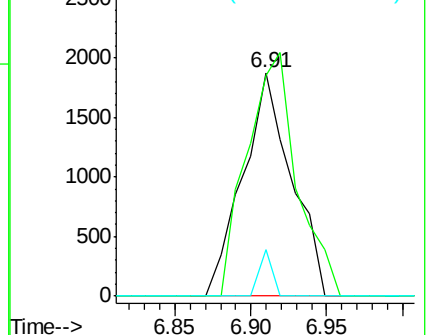
192 20.8 12.3 18.5#

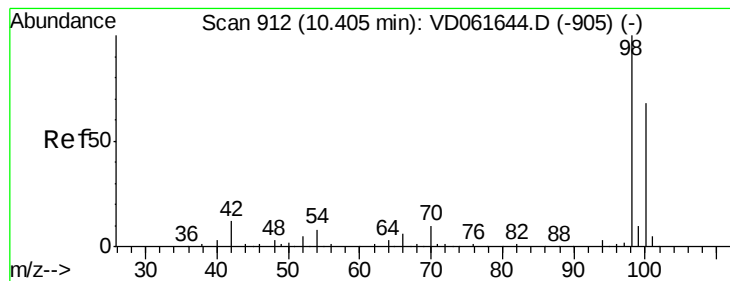


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.39 min Scan# 911

Delta R.T. -0.01 min

Lab File: VD061751.D

Acq: 11 Apr 2019 19:56

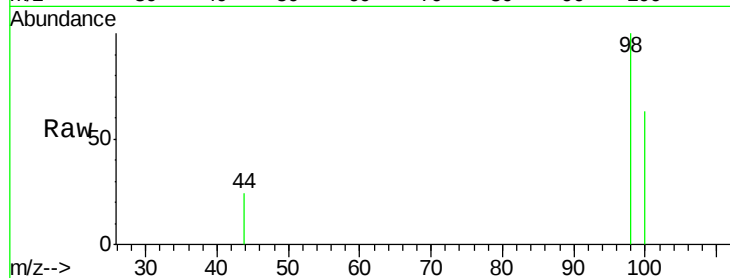
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 2961

Ion Ratio Lower Upper

98 100

100 62.7 55.4 83.0



Abundance Ion 98.05 (97.75 to 98.75): VD061644.D (-905) (-)

Ion 100.05 (99.75 to 100.75): VD061644.D (-905) (-)

10.39

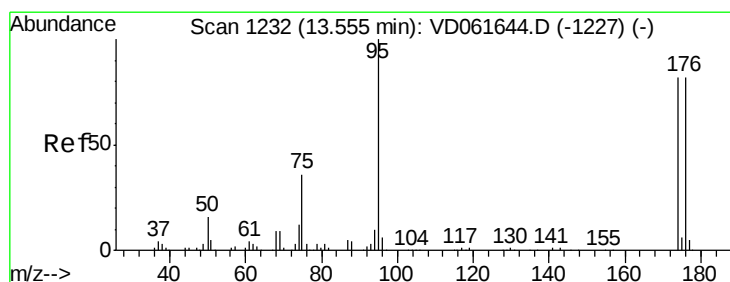
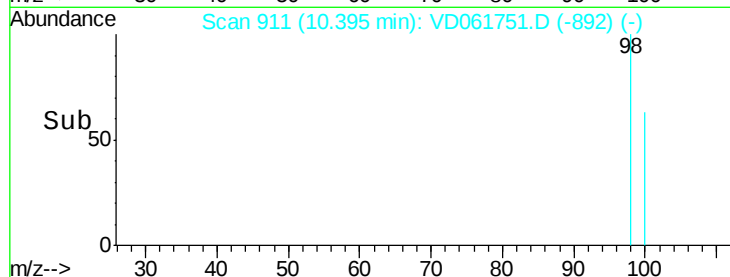
1500

1000

500

0

Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.54 min Scan# 1231

Delta R.T. -0.01 min

Lab File: VD061751.D

Acq: 11 Apr 2019 19:56

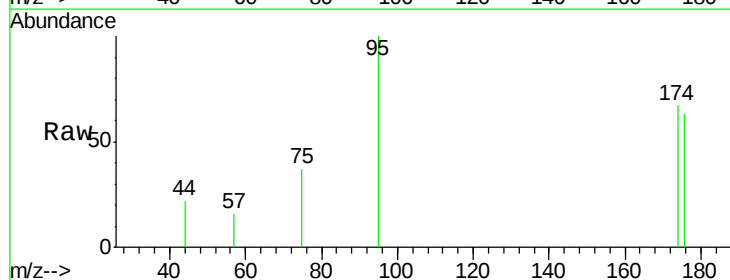
Tgt Ion: 95 Resp: 2259

Ion Ratio Lower Upper

95 100

174 67.0 0.0 164.6

176 63.5 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) (-)

2500

2000

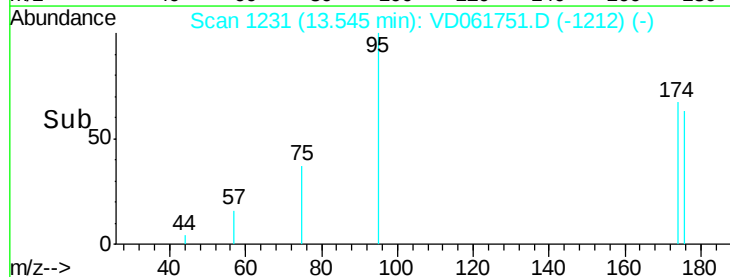
1500

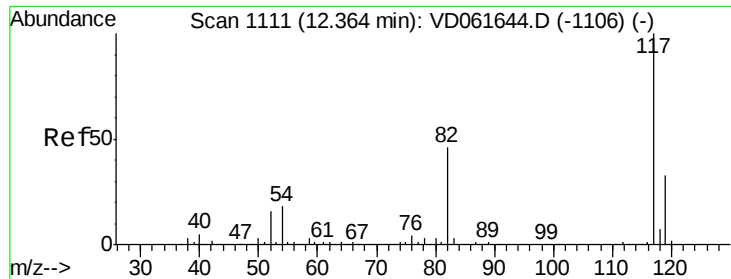
1000

500

0

Time-->

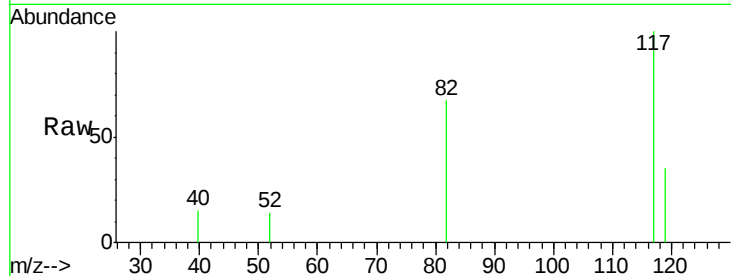




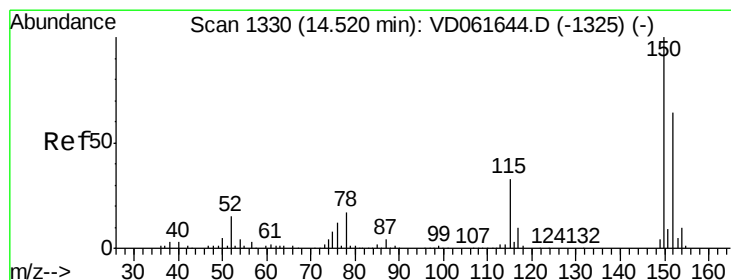
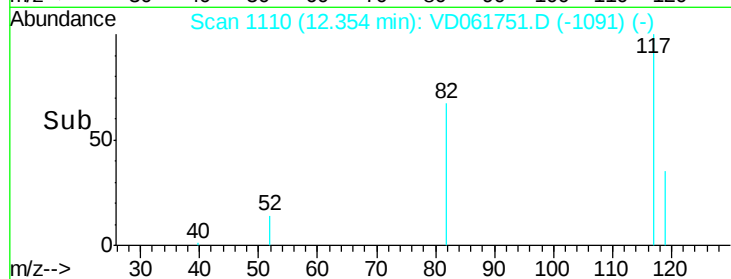
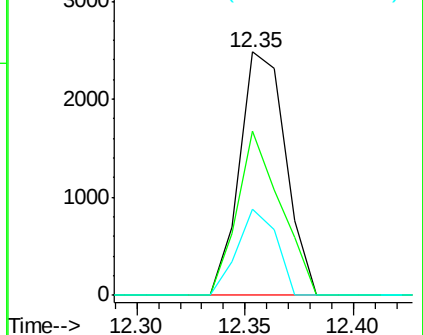
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.35 min Scan# 1110
Delta R.T. -0.01 min
Lab File: VD061751.D
Acq: 11 Apr 2019 19:56

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 3699
Ion Ratio Lower Upper
117 100
82 67.3 36.8 55.2#
119 35.2 26.1 39.1

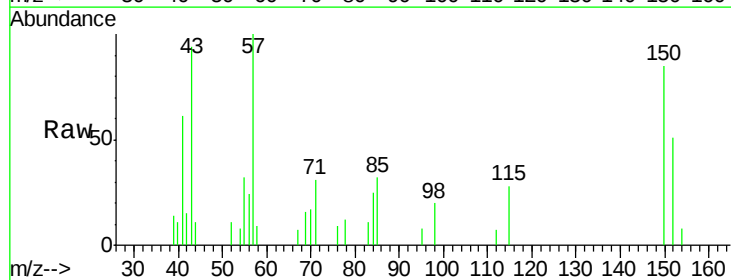


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

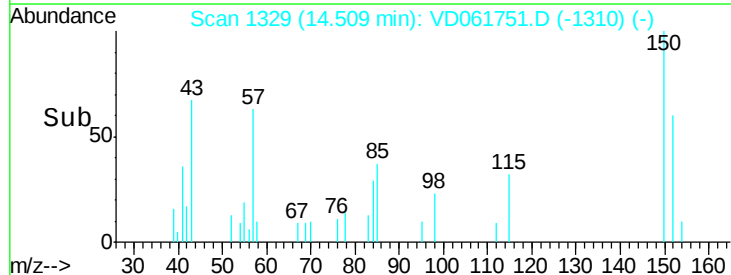
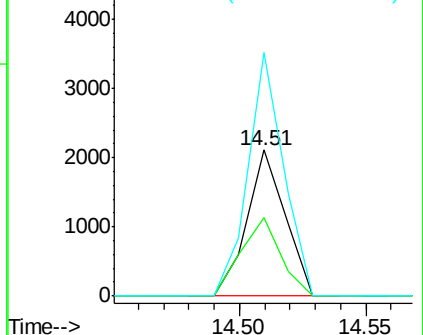


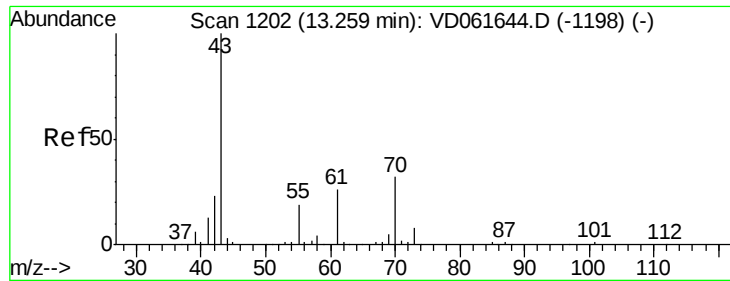
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.01 min
Lab File: VD061751.D
Acq: 11 Apr 2019 19:56

Tgt Ion:152 Resp: 2216
Ion Ratio Lower Upper
152 100
115 54.0 26.4 79.2
150 166.7 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-amvl acetate

Concen: 21.088 ug/l

RT: 13.34 min Scan# 1210

Delta R.T. 0.08 min

Lab File: VD061751.D

Acq: 11 Apr 2019 19:56

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 43 Resp: 846

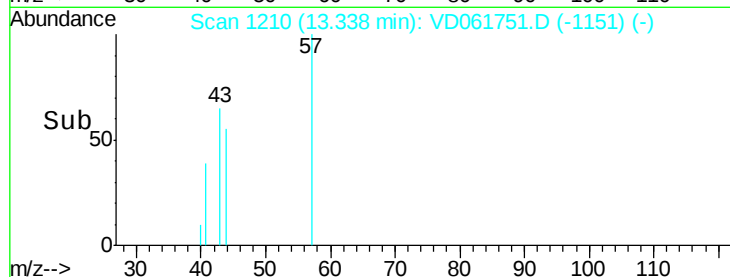
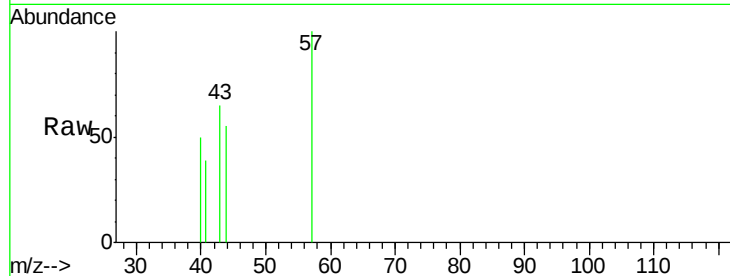
Ion Ratio Lower Upper

43 100

70 0.0 25.4 38.2#

55 0.0 15.0 22.4#

61 0.0 20.9 31.3#

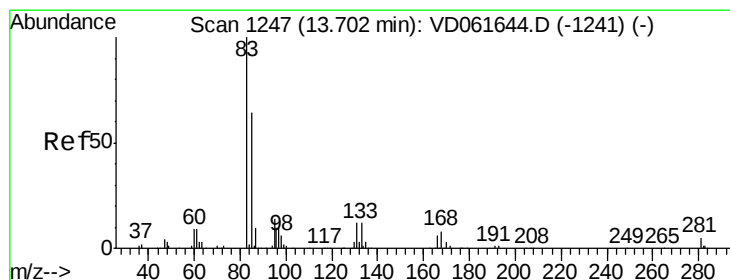
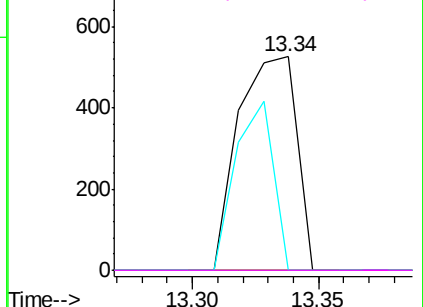


Abundance Ion 42.95 (42.65 to 43.65): VDC

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



#75

1,1,2,2-Tetrachloroethane

Concen: 6.125 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. -0.00 min

Lab File: VD061751.D

Acq: 11 Apr 2019 19:56

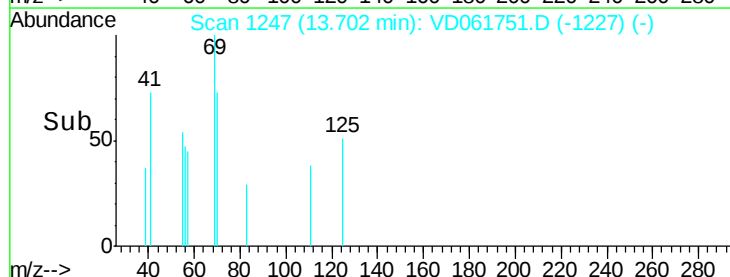
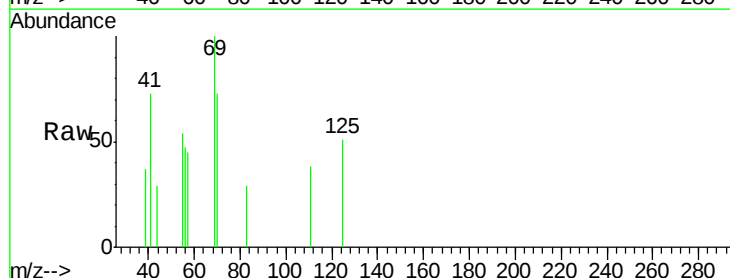
Tgt Ion: 83 Resp: 187

Ion Ratio Lower Upper

83 100

131 0.0 5.9 17.6#

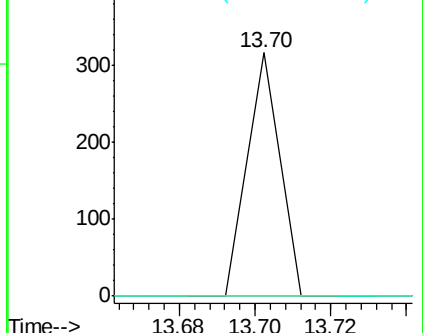
85 0.0 32.0 96.2#

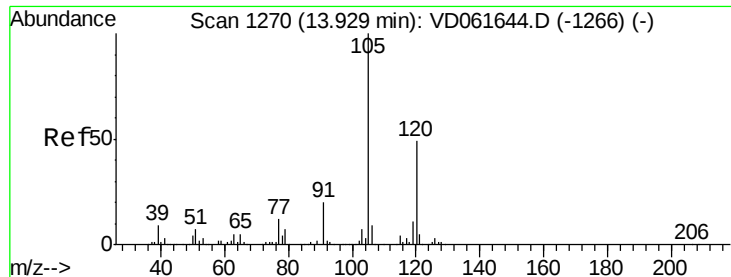


Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC





#80

1,3,5-Trimethylbenzene

Concen: 6.084 ug/l

RT: 14.08 min Scan# 1285

Delta R.T. 0.15 min

Lab File: VD061751.D

Acq: 11 Apr 2019 19:56

Instrument :

MSVOA_D

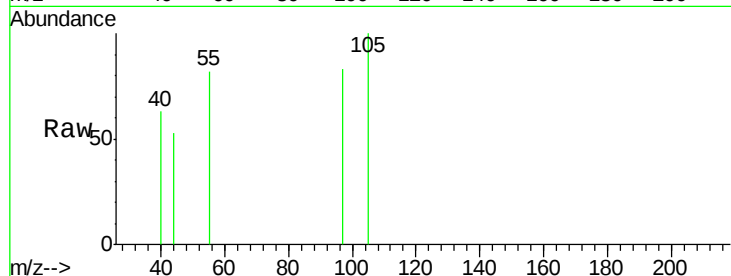
ClientSampleId :

Tot Ion:105 Resp: 713

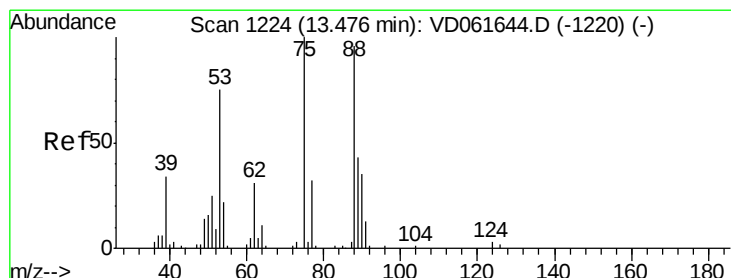
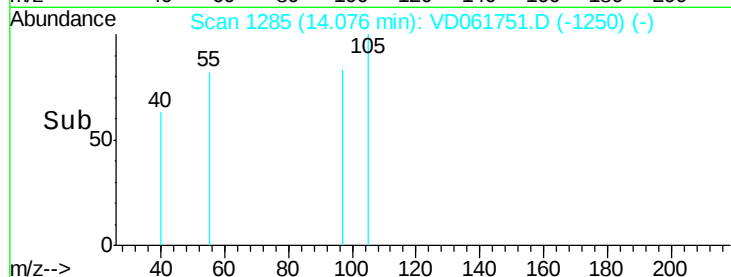
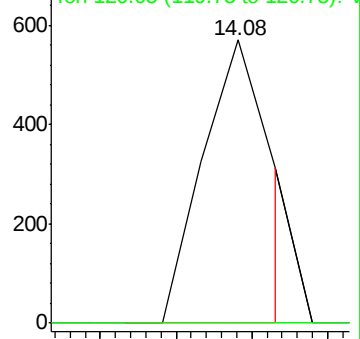
Ion Ratio Lower Upper

105 100

120 0.0 24.4 73.2#



Abundance Ion 105.05 (104.75 to 105.75): V



#81

trans-1,4-Dichloro-2-butene

Concen: 70.064 ug/l

RT: 13.54 min Scan# 1231

Delta R.T. 0.07 min

Lab File: VD061751.D

Acq: 11 Apr 2019 19:56

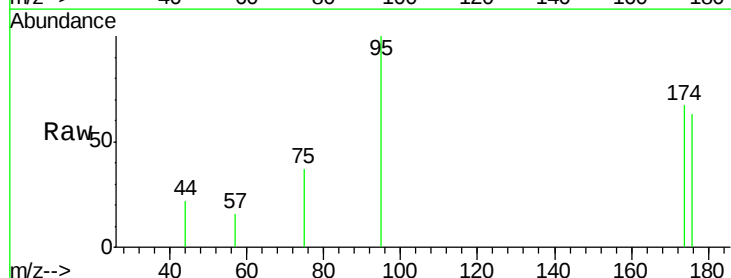
Tgt Ion: 75 Resp: 641

Ion Ratio Lower Upper

75 100

53 0.0 60.2 90.2#

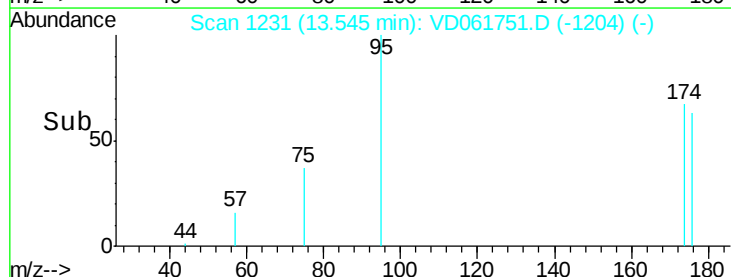
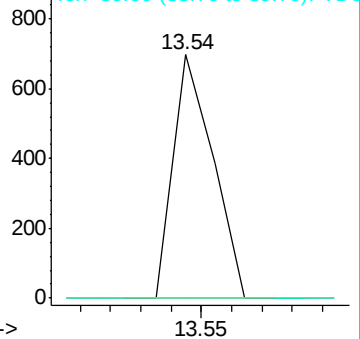
89 0.0 34.2 51.2#

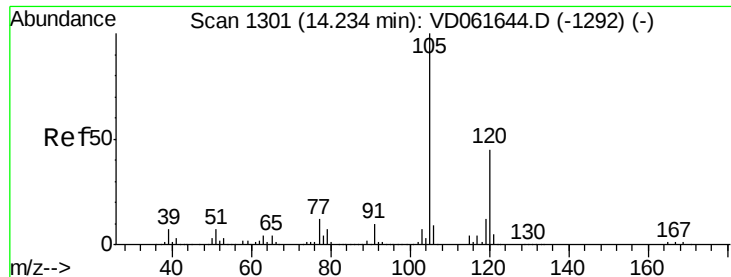


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#84

1,2,4-Trimethylbenzene

Concen: 1.632 ug/l

RT: 14.36 min Scan# 1314

Delta R.T. 0.13 min

Lab File: VD061751.D

Acq: 11 Apr 2019 19:56

Instrument :

MSVOA_D

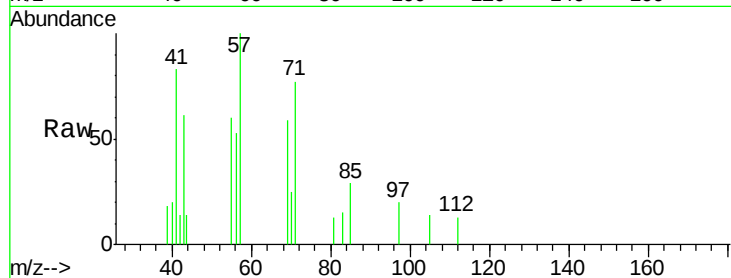
ClientSampleId :

Tot Ion:105 Resp: 193

Ion Ratio Lower Upper

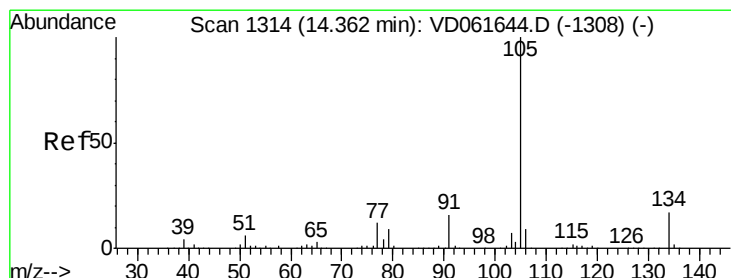
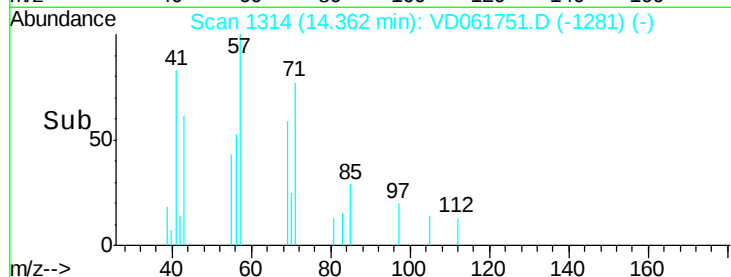
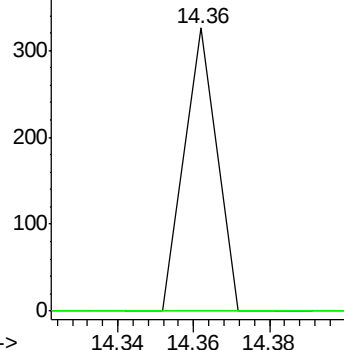
105 100

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



#85

sec-Butylbenzene

Concen: 1.264 ug/l

RT: 14.36 min Scan# 1314

Delta R.T. -0.00 min

Lab File: VD061751.D

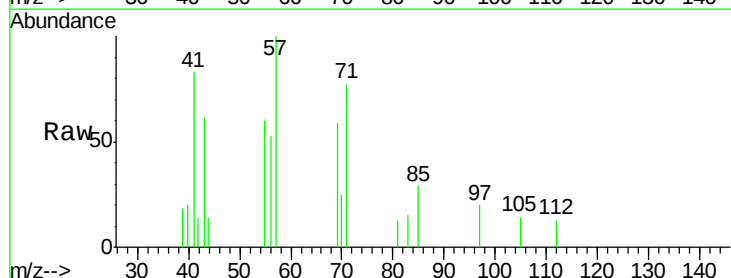
Acq: 11 Apr 2019 19:56

Tgt Ion:105 Resp: 193

Ion Ratio Lower Upper

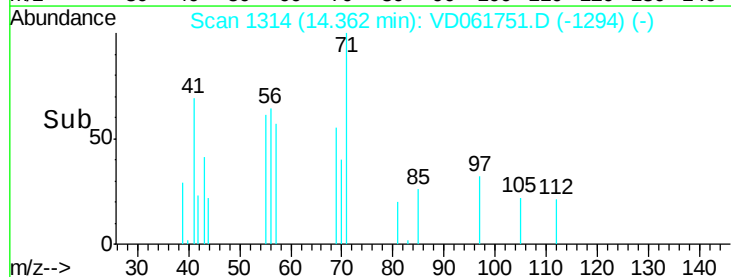
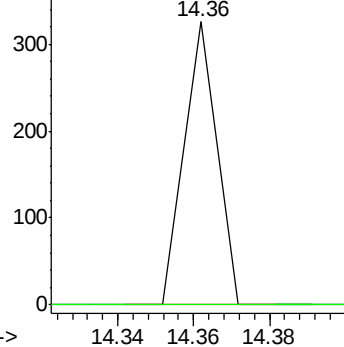
105 100

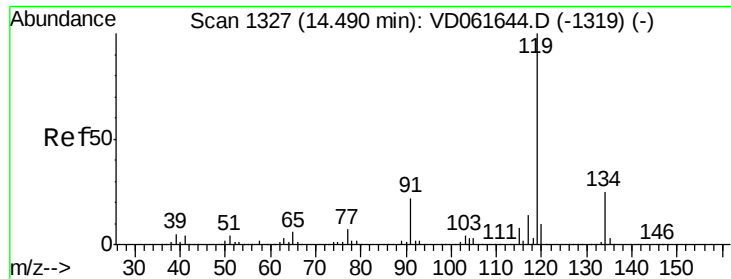
134 0.0 8.6 25.7#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V

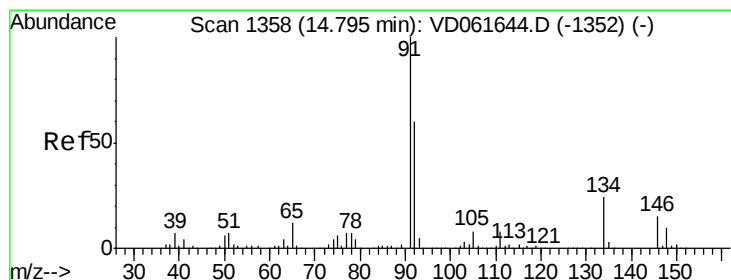
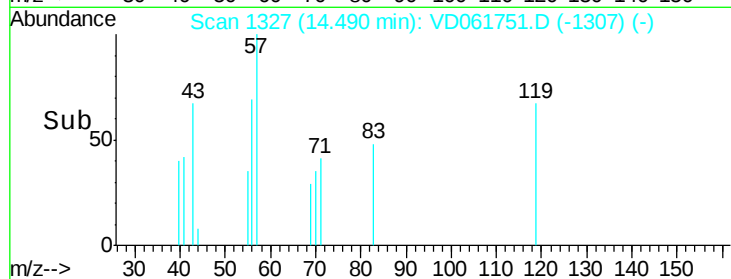
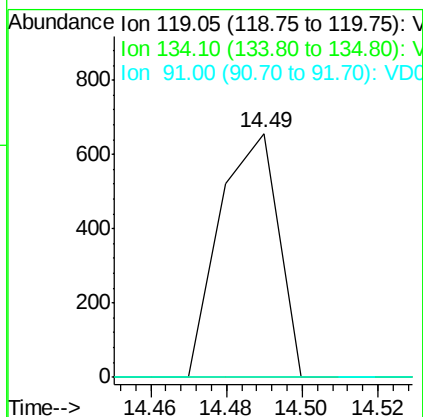
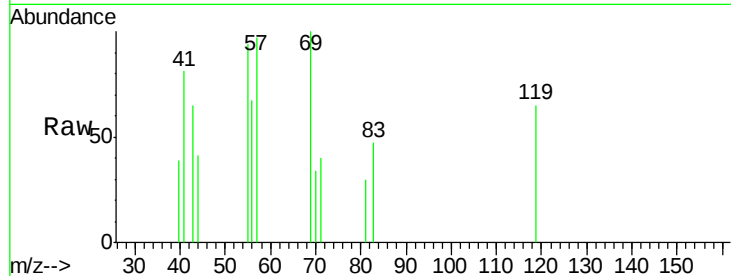




#86
 p-Isopropyltoluene
 Concen: 5.248 ug/l
 RT: 14.49 min Scan# 1327
 Delta R.T. -0.00 min
 Lab File: VD061751.D
 Acq: 11 Apr 2019 19:56

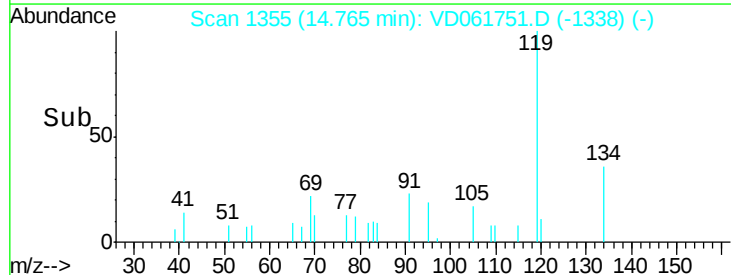
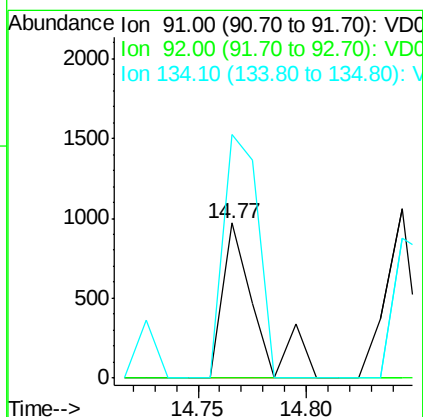
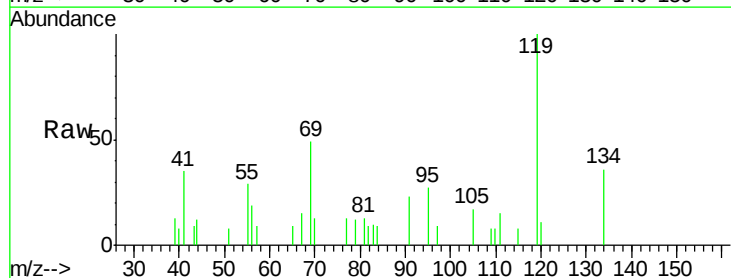
Instrument :
 MSVOA_D
 ClientSampleID :

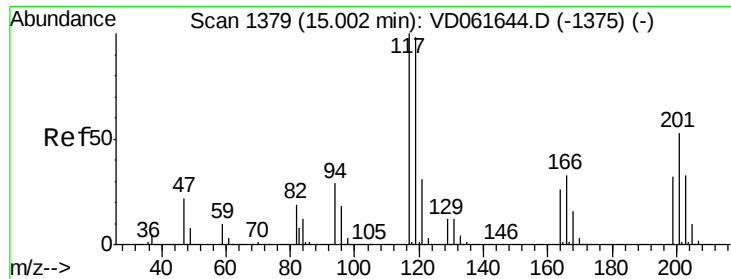
Tot Ion: 119 Resp: 695
 Ion Ratio Lower Upper
 119 100
 134 0.0 12.5 37.5#
 91 0.0 11.0 33.0#



#89
 n-Butylbenzene
 Concen: 9.113 ug/l
 RT: 14.77 min Scan# 1355
 Delta R.T. -0.03 min
 Lab File: VD061751.D
 Acq: 11 Apr 2019 19:56

Tgt Ion: 91 Resp: 1049
 Ion Ratio Lower Upper
 91 100
 92 0.0 29.8 89.4#
 134 157.0 12.2 36.4#

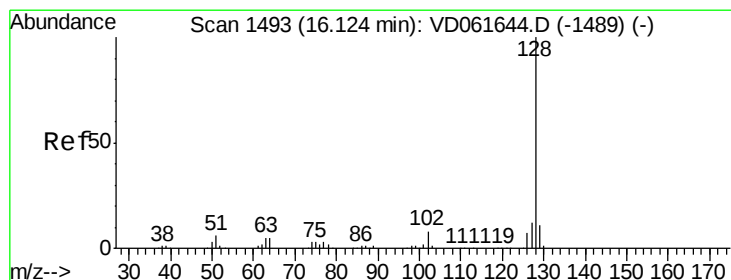
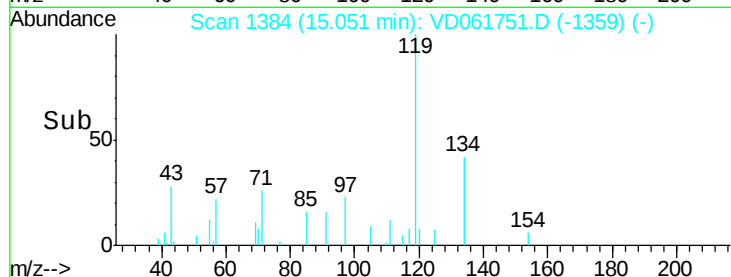
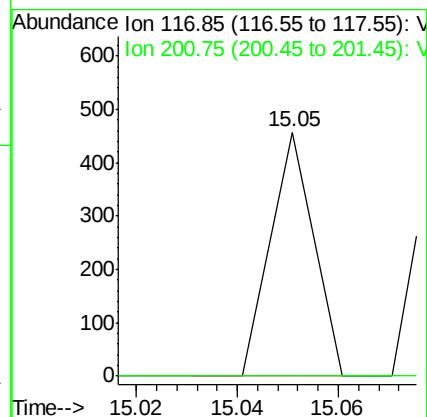
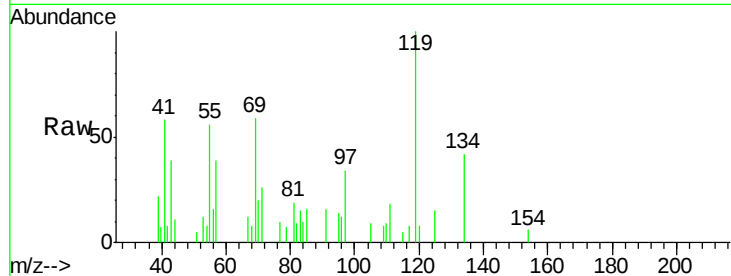




#90
Hexachloroethane
Concen: 7.541 ug/l
RT: 15.05 min Scan# 1384
Delta R.T. 0.05 min
Lab File: VD061751.D
Acq: 11 Apr 2019 19:56

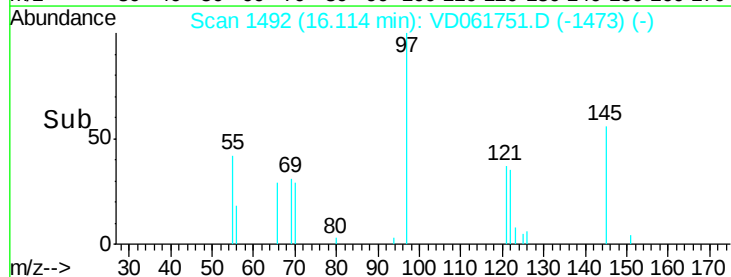
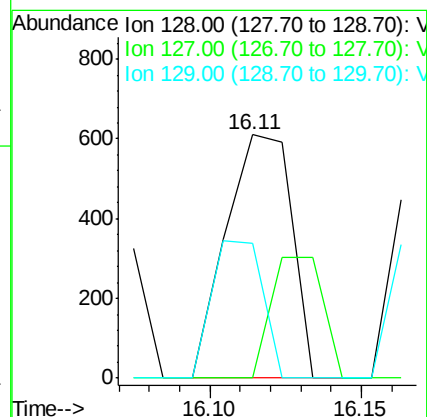
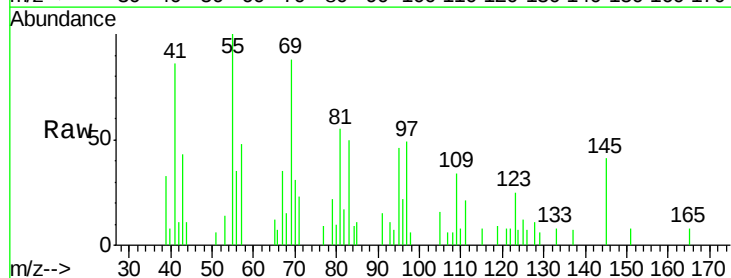
Instrument :
MSVOA_D
ClientSampled :

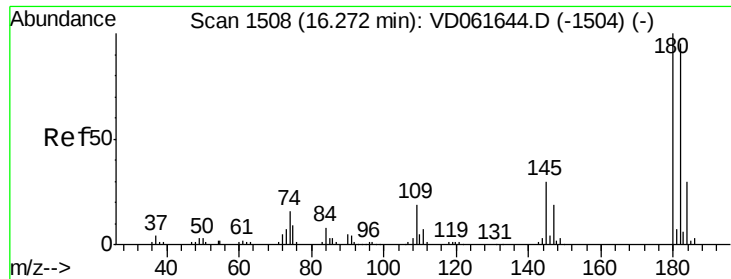
Tot Ion:117 Resp: 271
Ion Ratio Lower Upper
117 100
201 0.0 26.3 78.8#



#95
Naphthalene
Concen: 18.712 ug/l
RT: 16.11 min Scan# 1492
Delta R.T. -0.01 min
Lab File: VD061751.D
Acq: 11 Apr 2019 19:56

Tgt Ion:128 Resp: 917
Ion Ratio Lower Upper
128 100
127 0.0 9.4 14.2#
129 55.5 8.8 13.2#

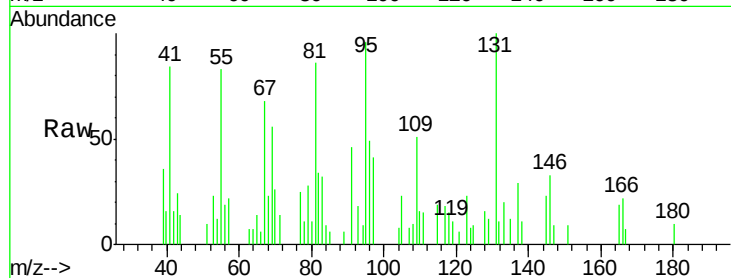




#96
 1,2,3-Trichlorobenzene
 Concen: 34.741 ug/l
 RT: 16.23 min Scan# 1504
 Delta R.T. -0.04 min
 Lab File: VD061751.D
 Acq: 11 Apr 2019 19:56

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:180 Resp: 537
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.3 142.0#
 145 228.3 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

