

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040519\
 Data File : VD061627.D
 Acq On : 5 Apr 2019 18:08
 Operator : VA/AP
 Sample : K2193-01RE
 Misc : 5.26g/5ml/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 06 00:28:30 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	7.02	168	418233	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.20	114	735207	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.36	117	529352	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	199572	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	167369	46.85	ug/l	0.00
Spiked Amount			Recovery	=	93.70%	
35) Dibromofluoromethane	6.90	113	259966	46.27	ug/l	0.00
Spiked Amount			Recovery	=	92.54%	
50) Toluene-d8	10.39	98	479398	35.58	ug/l	0.00
Spiked Amount			Recovery	=	71.16%	
62) 4-Bromofluorobenzene	13.55	95	223192	43.19	ug/l	0.00
Spiked Amount			Recovery	=	86.38%	

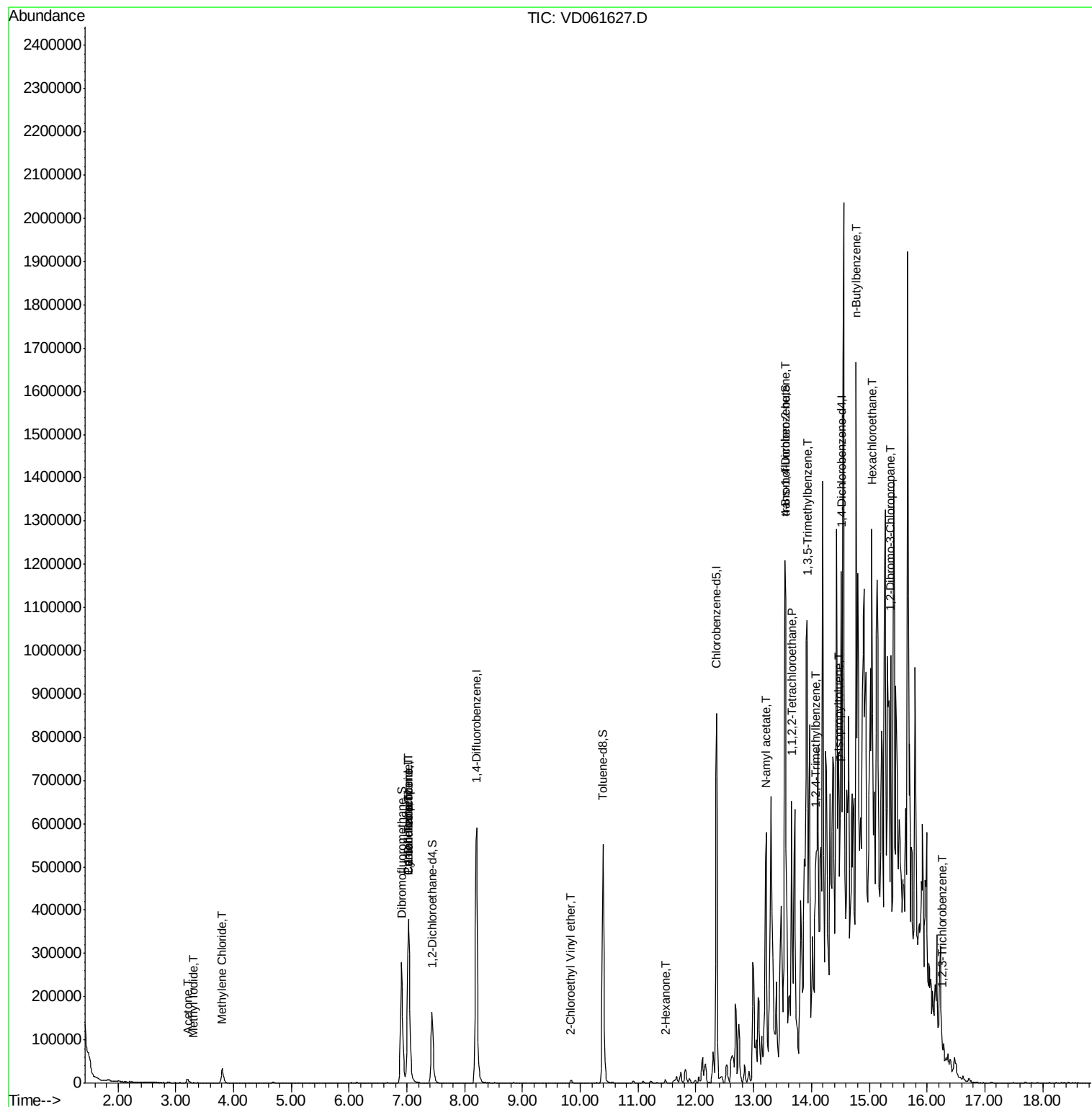
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.30	142	194	3.489	ug/l #	38
16) Acetone	3.20	43	17091	18.609	ug/l	93
20) Methylene Chloride	3.80	84	26051	3.269	ug/l	98
31) Cyclohexane	7.03	56	7062	1.148	ug/l #	1
36) 1,1-Dichloropropene	7.03	75	31013	4.833	ug/l #	44
38) Carbon Tetrachloride	7.02	117	39940	5.417	ug/l #	13
58) 2-Chloroethyl Vinyl ether	9.84	63	4300	2.392	ug/l	94
59) 2-Hexanone	11.47	43	4513	2.564	ug/l #	26
74) N-amyl acetate	13.22	43	82413	21.299	ug/l #	57
75) 1,1,2,2-Tetrachloroethane	13.66	83	10402	3.550	ug/l #	92
80) 1,3,5-Trimethylbenzene	13.92	105	217570	20.188	ug/l	100
81) trans-1,4-Dichloro-2-buten	13.55	75	81792	93.052	ug/l #	24
84) 1,2,4-Trimethylbenzene	14.07	105	194125	16.638	ug/l	71
86) p-Isopropyltoluene	14.49	119	95695	7.909	ug/l	97
89) n-Butylbenzene	14.77	91	100528	9.053	ug/l #	1
90) Hexachloroethane	15.05	117	24650	7.212	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	15.37	75	1542	4.487	ug/l #	1
96) 1,2,3-Trichlorobenzene	16.27	180	2064	1.800	ug/l #	1

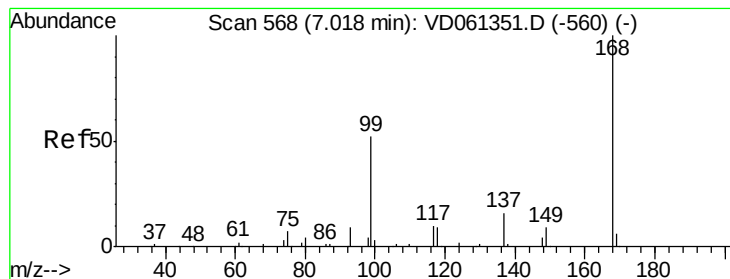
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 7.02 min Scan# 569

Delta R.T. 0.01 min

Lab File: VD061627.D

Acq: 5 Apr 2019 18:08

Instrument :

MSVOA_D

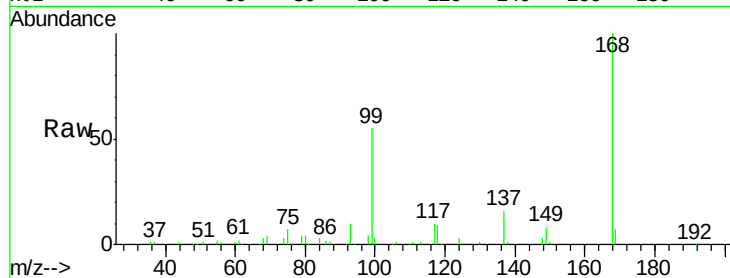
ClientSampleId :

Tot Ion:168 Resp: 418233

Ion Ratio Lower Upper

168 100

99 54.8 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V

7.02

150000

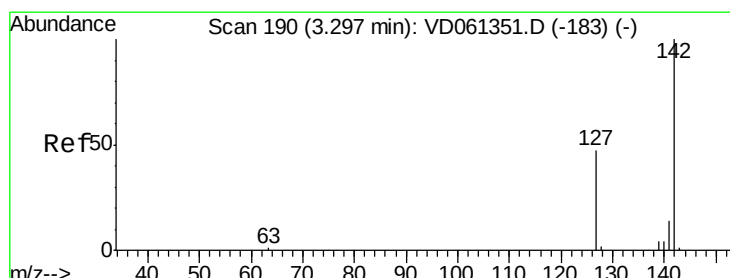
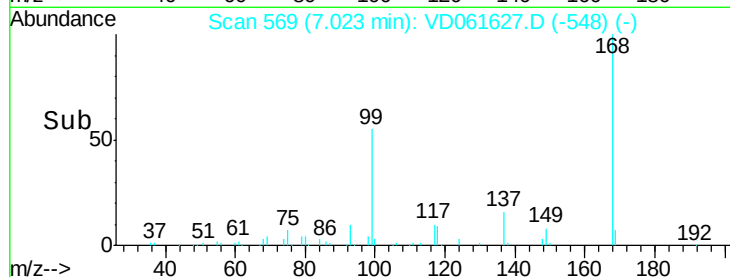
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#10

Methyl Iodide

Concen: 3.489 ug/l

RT: 3.30 min Scan# 191

Delta R.T. 0.01 min

Lab File: VD061627.D

Acq: 5 Apr 2019 18:08

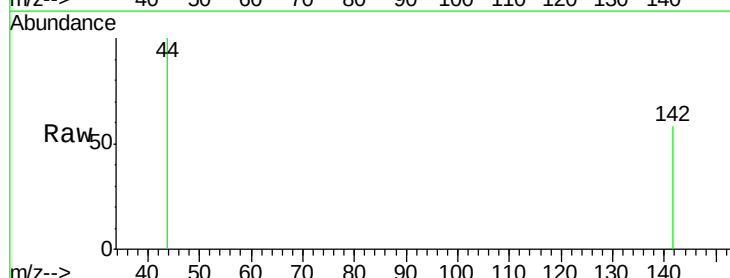
Tgt Ion:142 Resp: 194

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

3.30

400

300

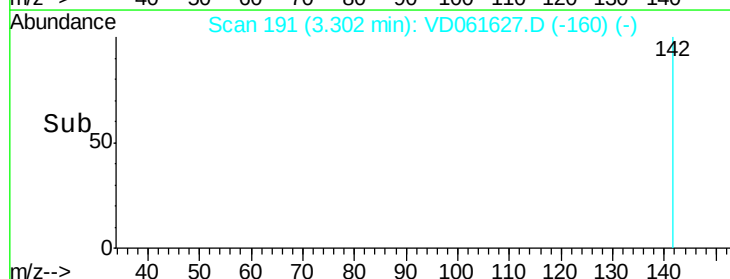
200

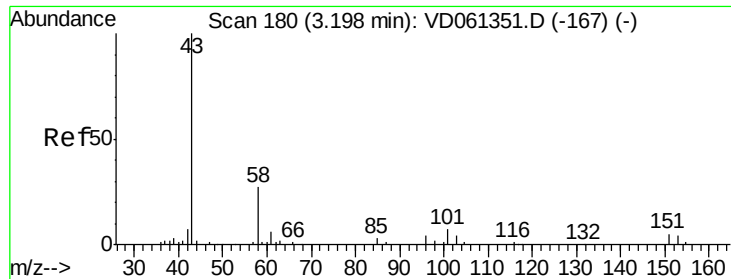
100

0

3.28 3.30 3.32

Time-->





#16

Acetone

Concen: 18.609 ug/l

RT: 3.20 min Scan# 181

Delta R.T. 0.01 min

Lab File: VD061627.D

Acq: 5 Apr 2019 18:08

Instrument :

MSVOA_D

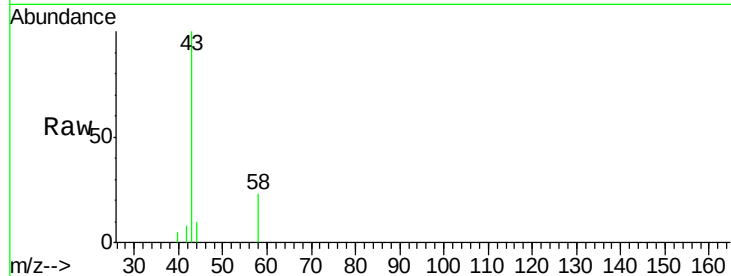
ClientSampleId :

Tot Ion: 43 Resp: 17091

Ion Ratio Lower Upper

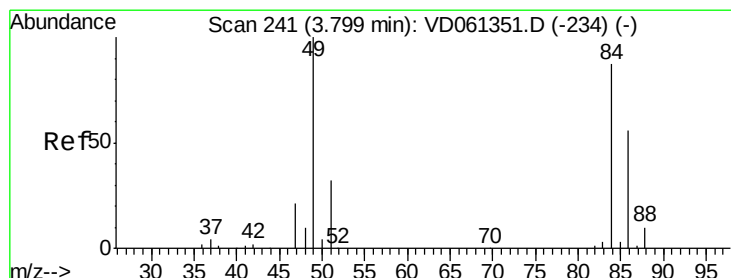
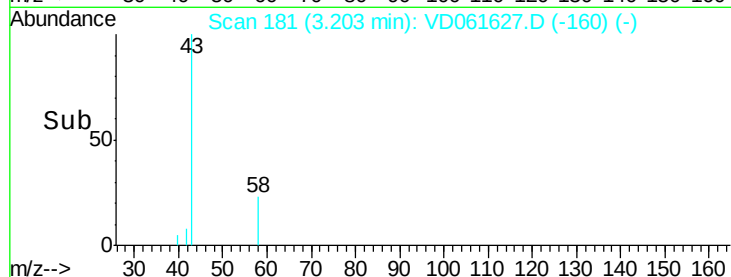
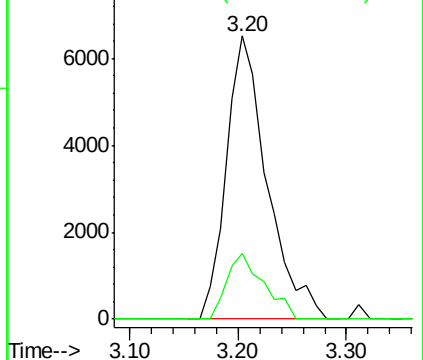
43 100

58 23.1 21.5 32.3



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 3.269 ug/l

RT: 3.80 min Scan# 242

Delta R.T. 0.01 min

Lab File: VD061627.D

Acq: 5 Apr 2019 18:08

Tgt Ion: 84 Resp: 26051

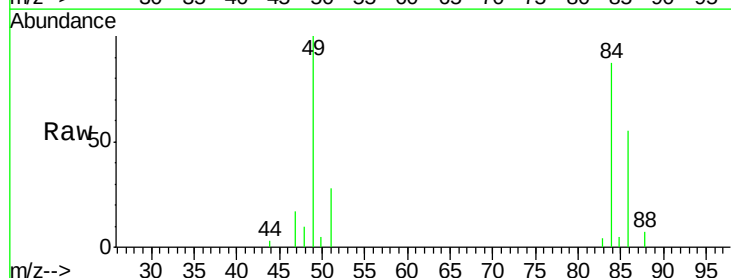
Ion Ratio Lower Upper

84 100

49 115.0 91.8 137.8

51 32.6 29.8 44.8

86 62.9 51.8 77.6

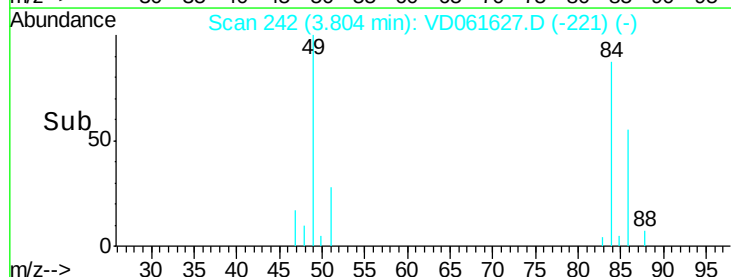
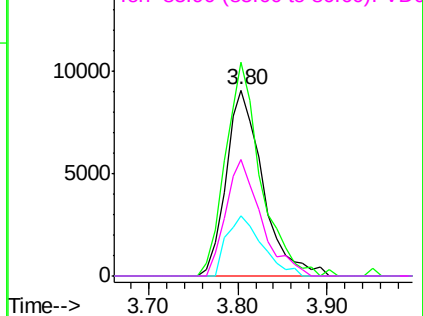


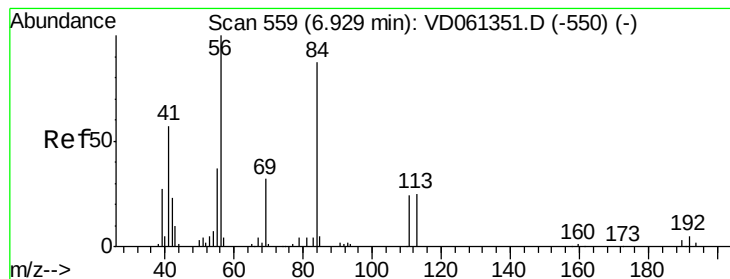
Abundance Ion 83.95 (83.65 to 84.65): VDC

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





#31

Cyclohexane

Concen: 1.148 ug/l

RT: 7.03 min Scan# 570

Delta R.T. 0.10 min

Lab File: VD061627.D

Acq: 5 Apr 2019 18:08

Instrument :

MSVOA_D

ClientSampleId :

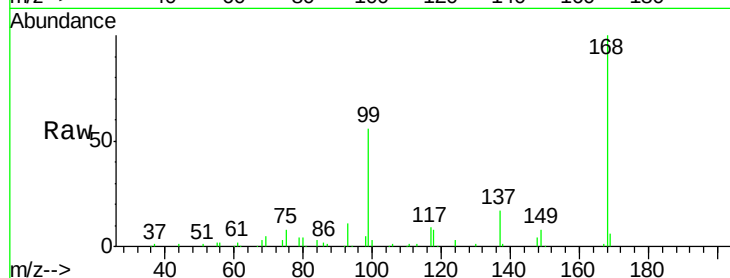
Tot Ion: 56 Resp: 7062

Ion Ratio Lower Upper

56 100

69 234.2 25.7 38.5#

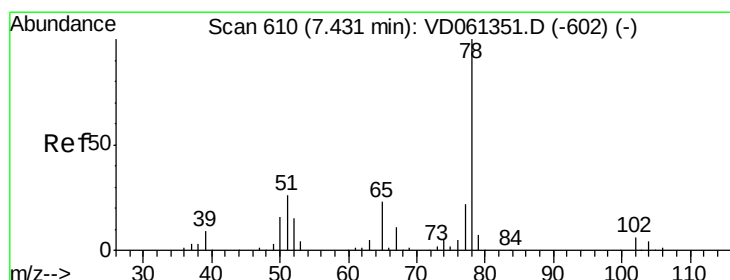
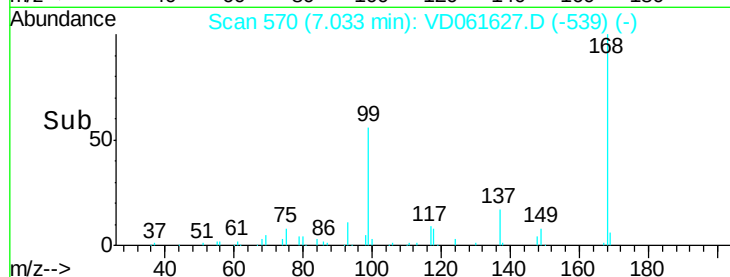
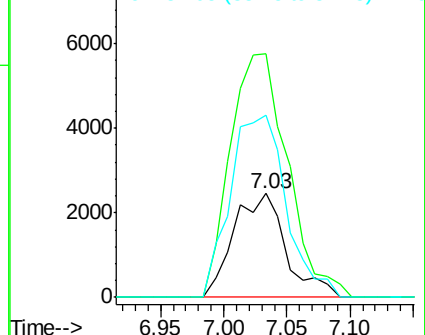
84 174.7 70.6 105.8#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.44 min Scan# 611

Delta R.T. 0.01 min

Lab File: VD061627.D

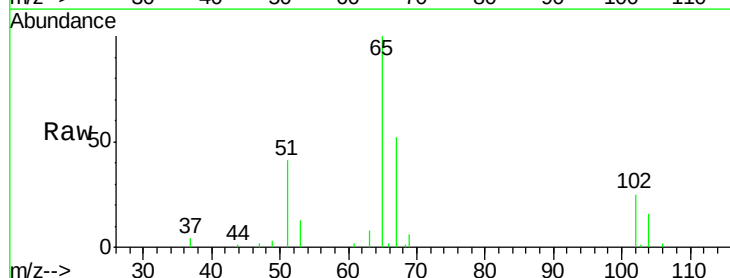
Acq: 5 Apr 2019 18:08

Tgt Ion: 65 Resp: 167369

Ion Ratio Lower Upper

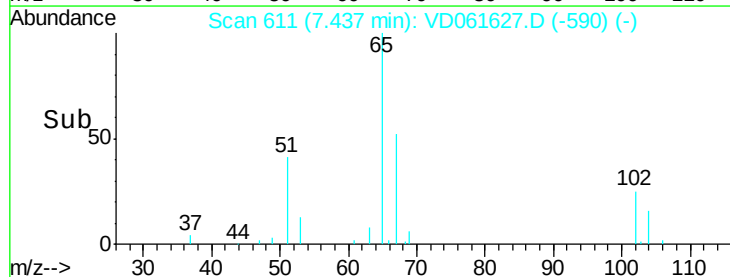
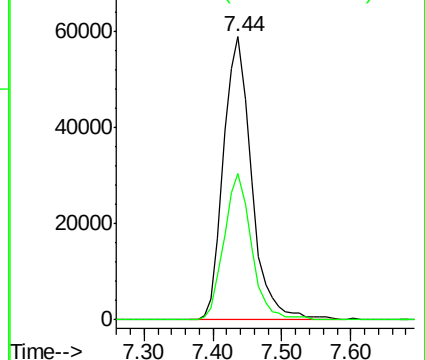
65 100

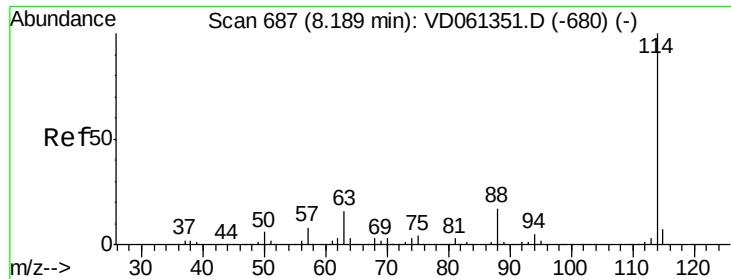
67 51.9 0.0 99.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

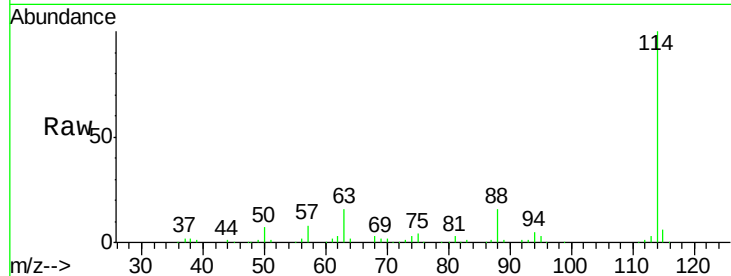




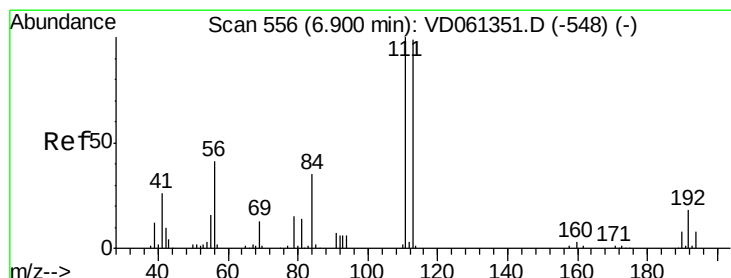
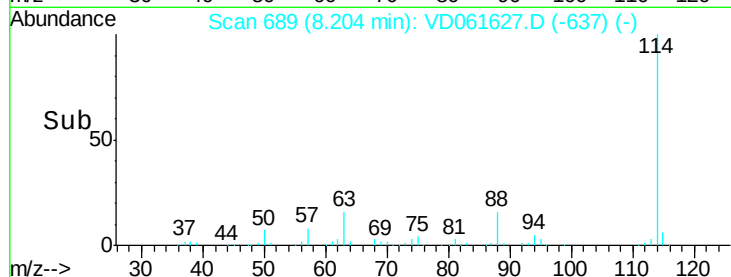
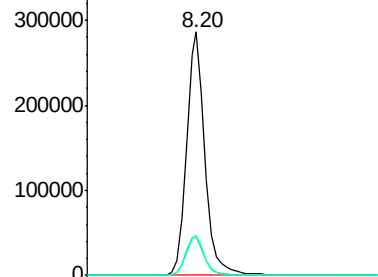
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.20 min Scan# 689
 Delta R.T. 0.01 min
 Lab File: VD061627.D
 Acq: 5 Apr 2019 18:08

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:114 Resp: 735207
 Ion Ratio Lower Upper
 114 100
 63 16.1 0.0 31.6
 88 16.5 0.0 33.4

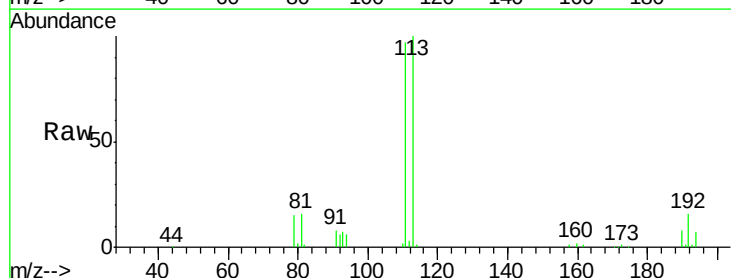


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

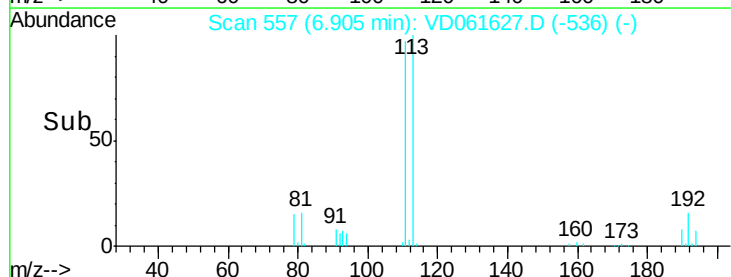
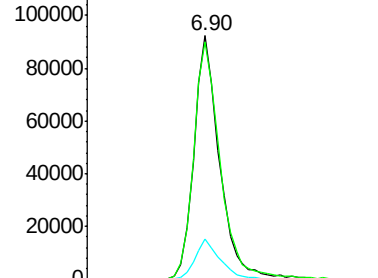


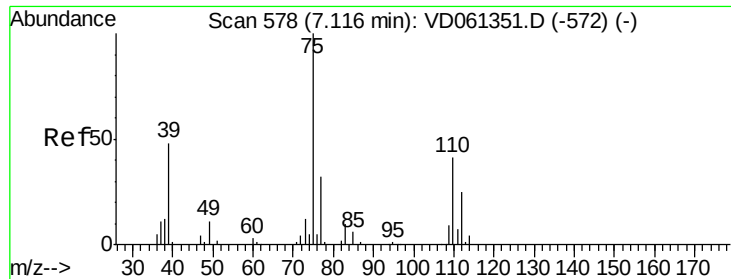
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.90 min Scan# 557
 Delta R.T. 0.01 min
 Lab File: VD061627.D
 Acq: 5 Apr 2019 18:08

Tgt Ion:113 Resp: 259966
 Ion Ratio Lower Upper
 113 100
 111 97.4 81.0 121.6
 192 16.4 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

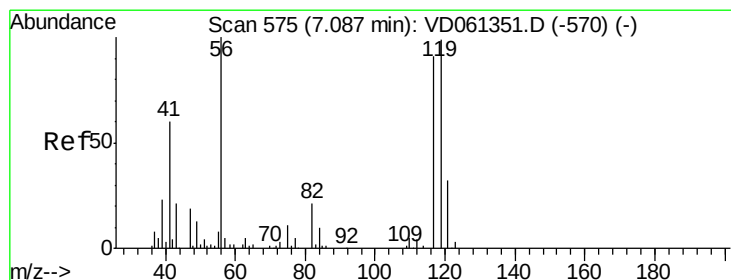
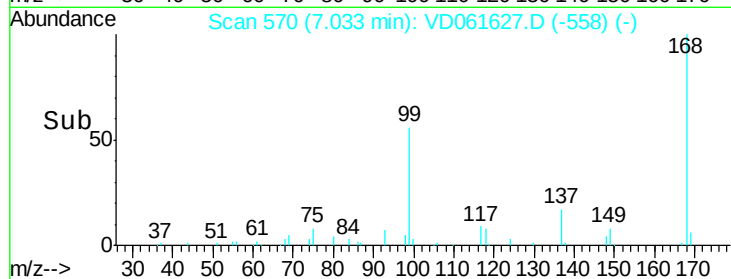
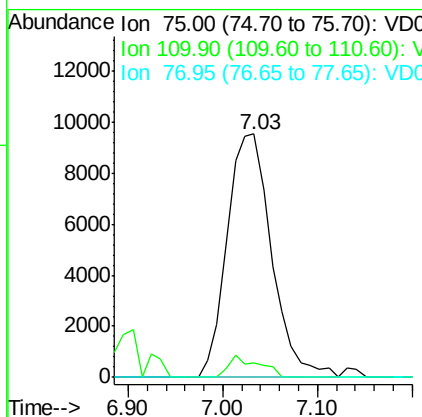
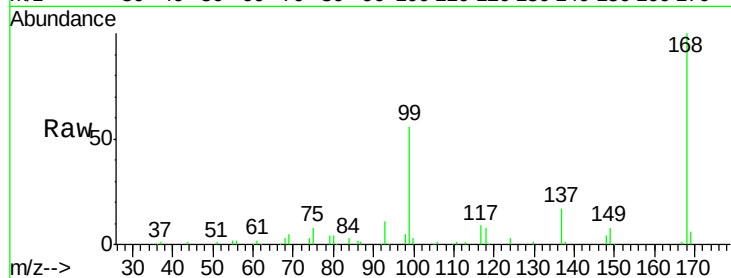




#36
 1,1-Dichloropropene
 Concen: 4.833 ug/l
 RT: 7.03 min Scan# 570
 Delta R.T. -0.08 min
 Lab File: VD061627.D
 Acq: 5 Apr 2019 18:08

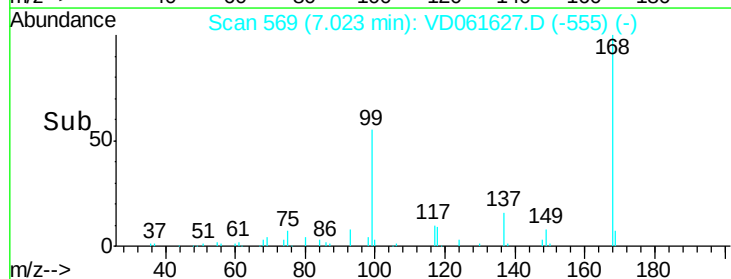
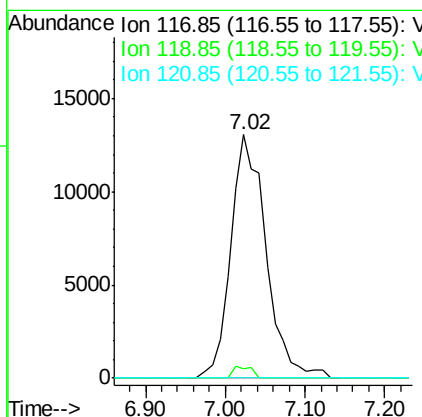
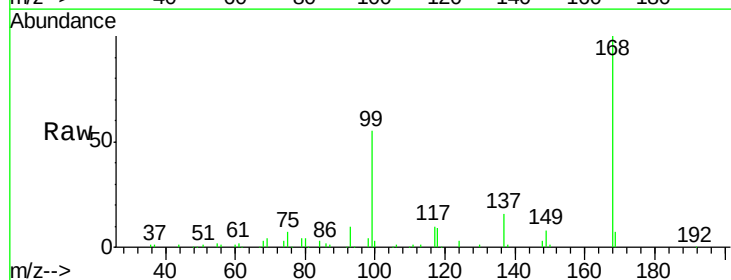
Instrument :
 MSVOA_D
 ClientSampleId :

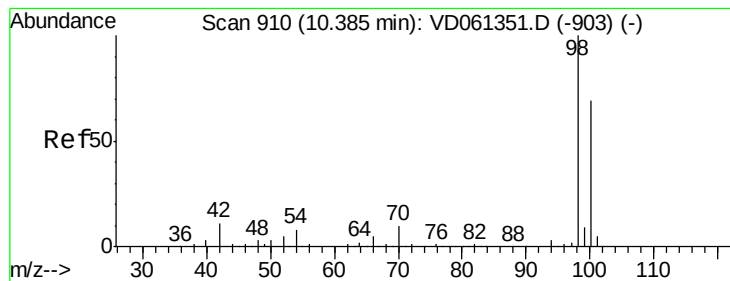
Tot Ion: 75 Resp: 31013
 Ion Ratio Lower Upper
 75 100
 110 6.2 20.4 61.3#
 77 0.0 24.9 37.3#



#38
 Carbon Tetrachloride
 Concen: 5.417 ug/l
 RT: 7.02 min Scan# 569
 Delta R.T. -0.06 min
 Lab File: VD061627.D
 Acq: 5 Apr 2019 18:08

Tgt Ion: 117 Resp: 39940
 Ion Ratio Lower Upper
 117 100
 119 3.7 80.1 120.1#
 121 0.0 25.6 38.4#





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.39 min Scan# 911

Delta R.T. 0.01 min

Lab File: VD061627.D

Acq: 5 Apr 2019 18:08

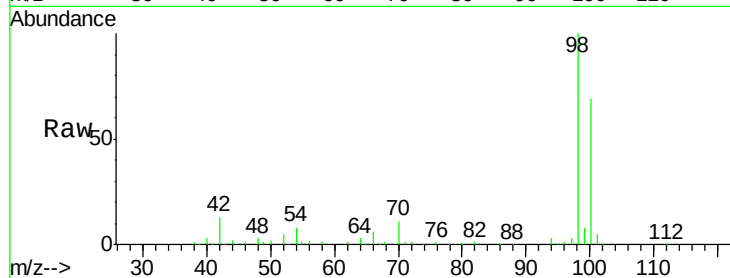
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 479398

Ion Ratio Lower Upper

98 100

100 69.2 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) (-)

250000

200000

150000

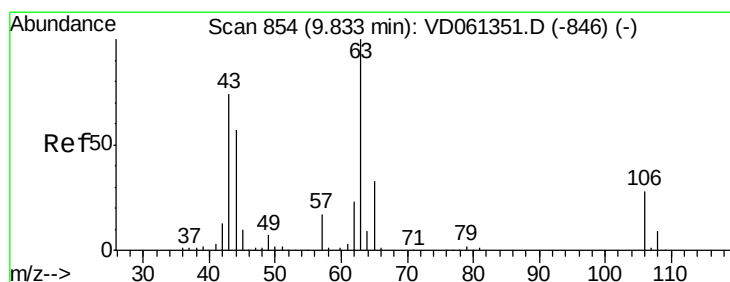
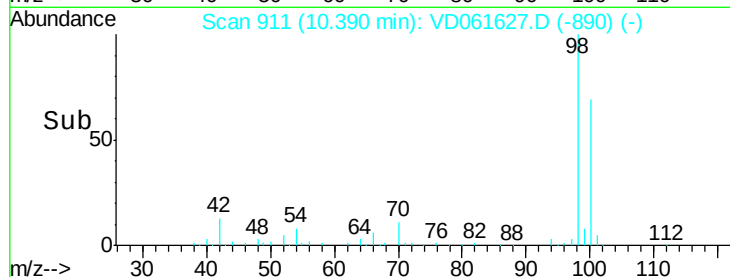
100000

50000

0

10.30 10.40 10.50

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 2.392 ug/l

RT: 9.84 min Scan# 855

Delta R.T. 0.01 min

Lab File: VD061627.D

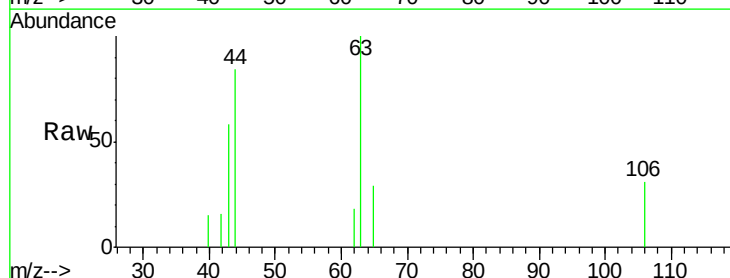
Acq: 5 Apr 2019 18:08

Tgt Ion: 63 Resp: 4300

Ion Ratio Lower Upper

63 100

106 31.3 22.4 33.6



Abundance Ion 62.95 (62.65 to 63.65): VD061351.D (-846) (-)

Ion 105.95 (105.65 to 106.65): VD061351.D (-846) (-)

2500

2000

1500

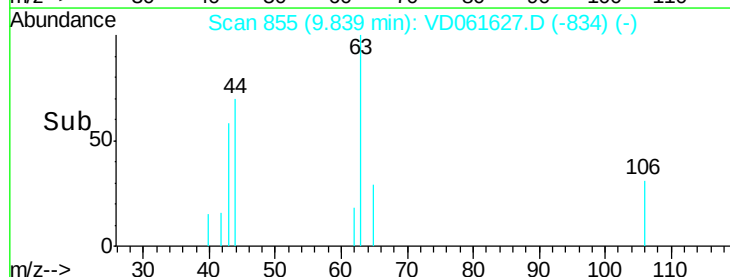
1000

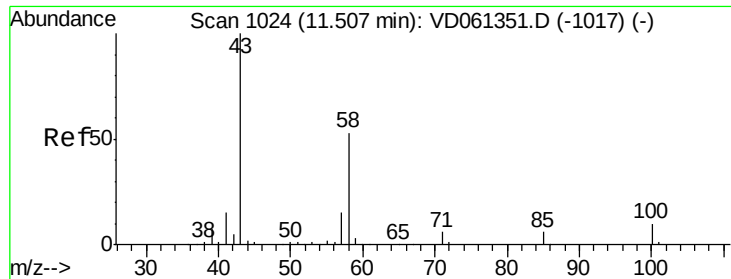
500

0

9.75 9.80 9.85 9.90

Time-->

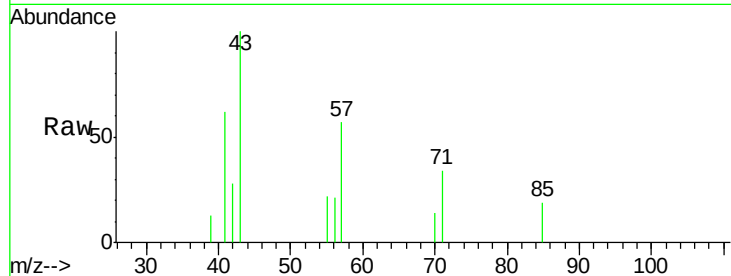




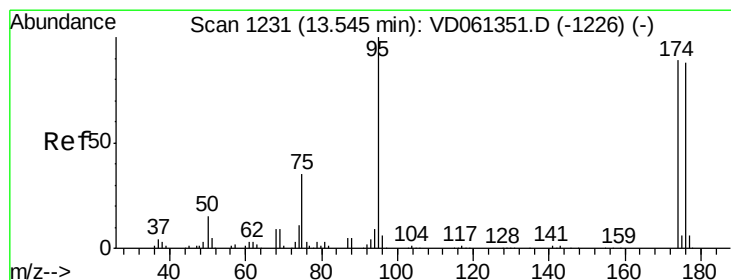
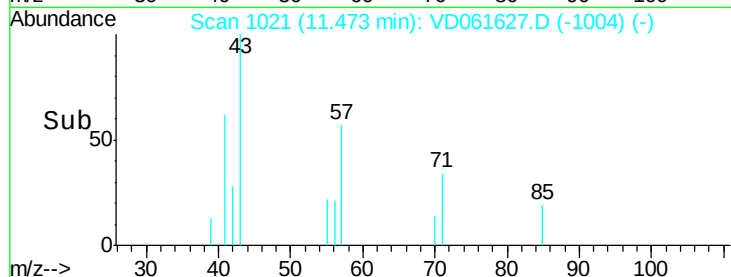
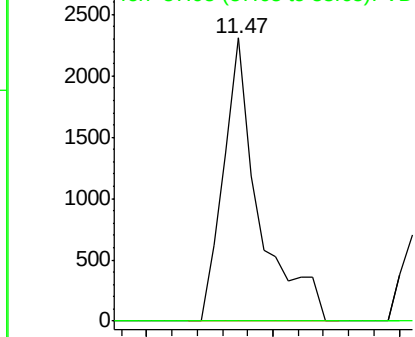
#59
2-Hexanone
Concen: 2.564 ug/l
RT: 11.47 min Scan# 1021
Delta R.T. -0.03 min
Lab File: VD061627.D
Acq: 5 Apr 2019 18:08

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 43 Resp: 4513
Ion Ratio Lower Upper
43 100
58 0.0 26.3 78.9#

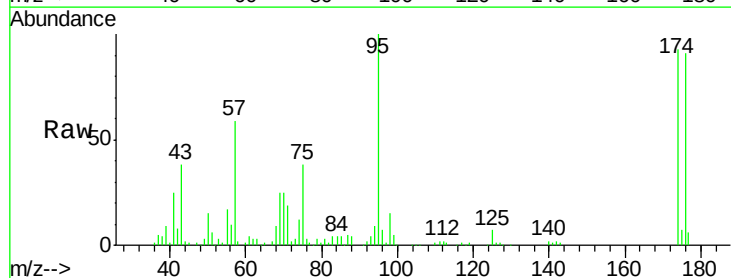


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

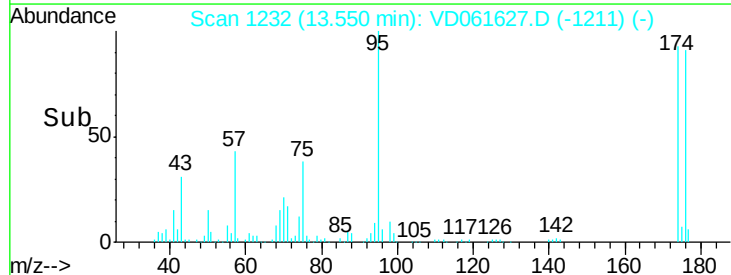
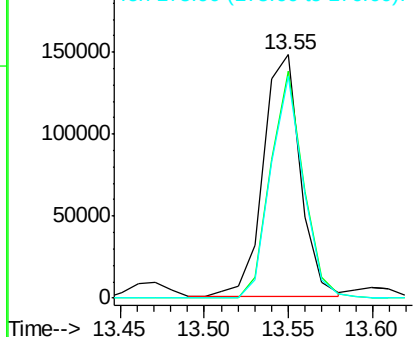


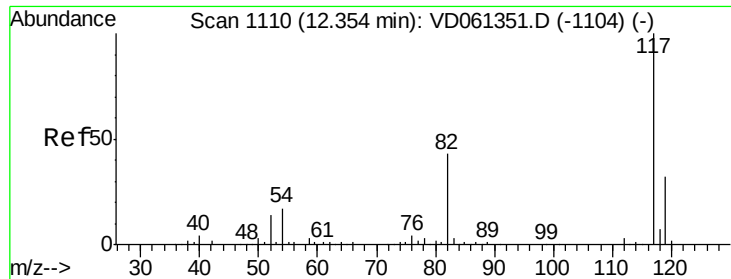
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.55 min Scan# 1232
Delta R.T. 0.01 min
Lab File: VD061627.D
Acq: 5 Apr 2019 18:08

Tgt Ion: 95 Resp: 223192
Ion Ratio Lower Upper
95 100
174 93.2 0.0 178.0
176 91.2 0.0 175.0



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

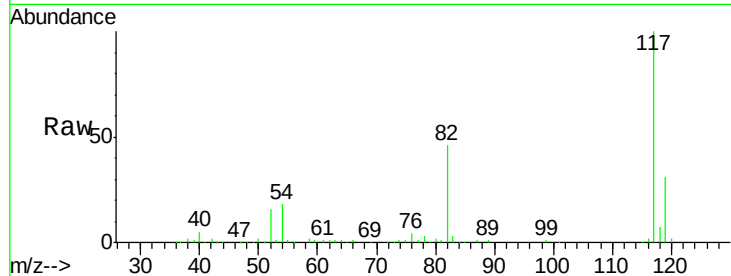




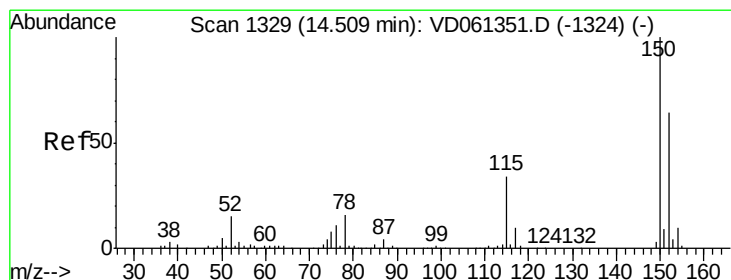
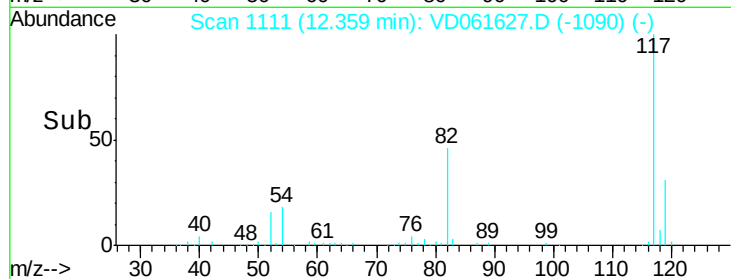
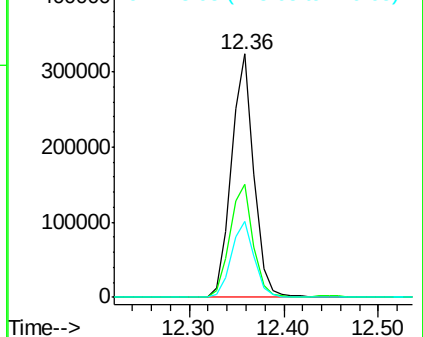
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. 0.01 min
Lab File: VD061627.D
Acq: 5 Apr 2019 18:08

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 529352
Ion Ratio Lower Upper
117 100
82 46.4 34.4 51.6
119 31.2 25.8 38.6

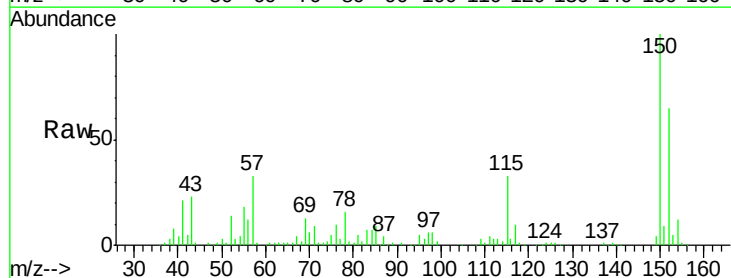


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

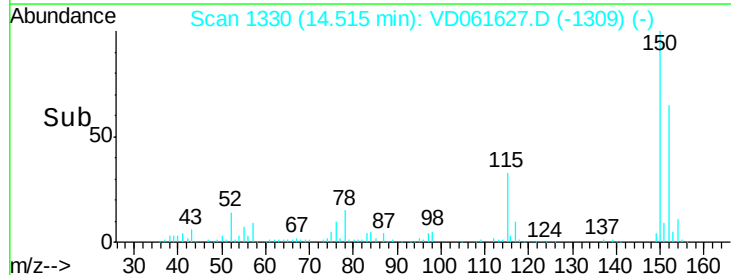
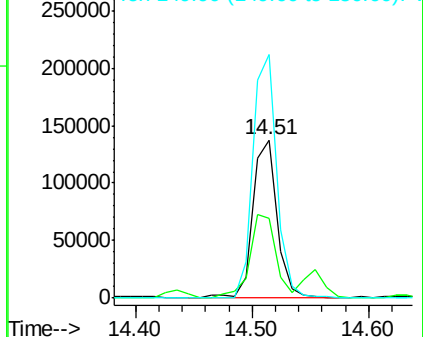


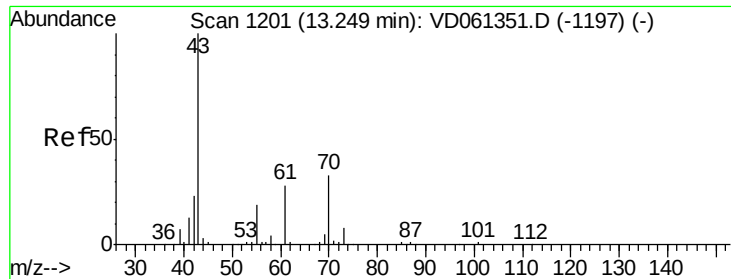
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1330
Delta R.T. 0.01 min
Lab File: VD061627.D
Acq: 5 Apr 2019 18:08

Tgt Ion:152 Resp: 199572
Ion Ratio Lower Upper
152 100
115 50.0 26.9 80.6
150 153.8 0.0 318.0



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: 21.299 ug/l

RT: 13.22 min Scan# 1198

Delta R.T. -0.03 min

Lab File: VD061627.D

Acq: 5 Apr 2019 18:08

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 43 Resp: 82413

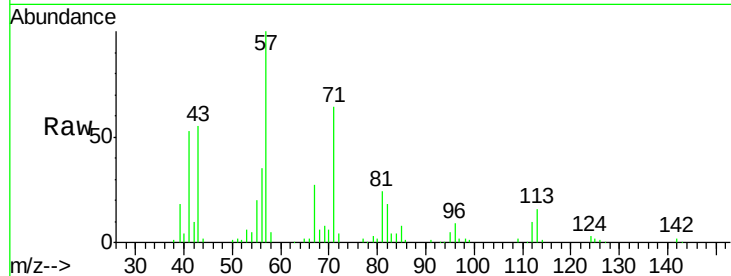
Ion Ratio Lower Upper

43 100

70 11.5 26.6 40.0#

55 36.1 15.4 23.2#

61 0.0 22.2 33.4#

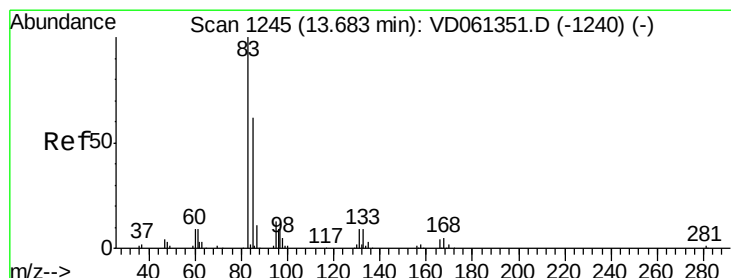
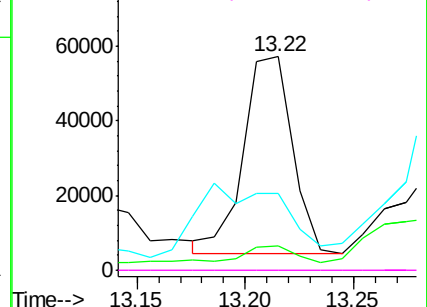
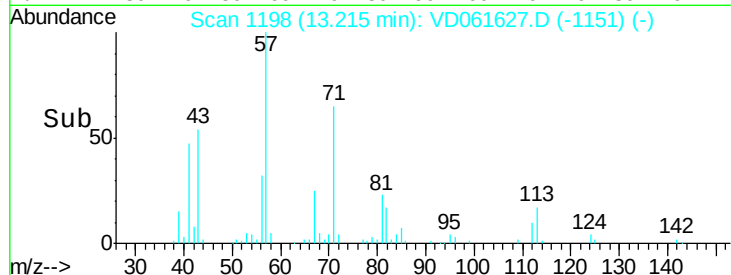


Abundance Ion 42.95 (42.65 to 43.65): VDC

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: 3.550 ug/l

RT: 13.66 min Scan# 1243

Delta R.T. -0.02 min

Lab File: VD061627.D

Acq: 5 Apr 2019 18:08

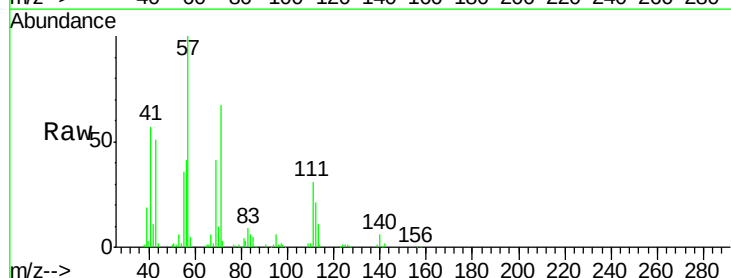
Tgt Ion: 83 Resp: 10402

Ion Ratio Lower Upper

83 100

131 0.0 4.3 13.1#

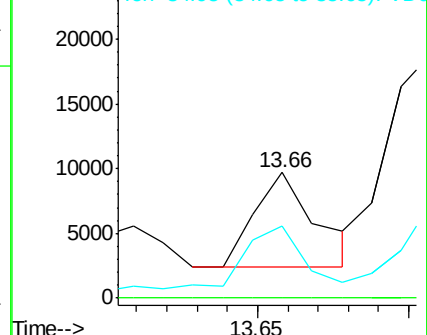
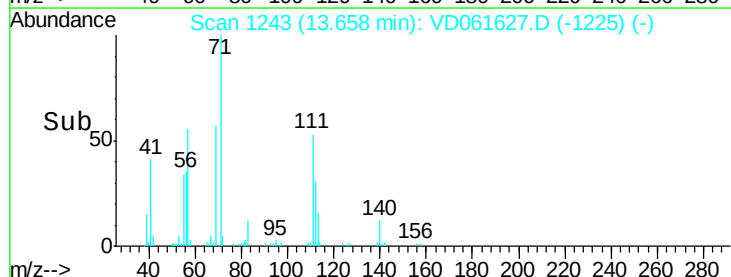
85 57.6 31.2 93.6

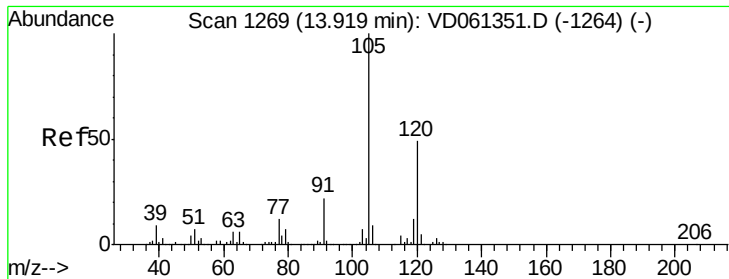


Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): V

Ion 84.95 (84.65 to 85.65): VDC

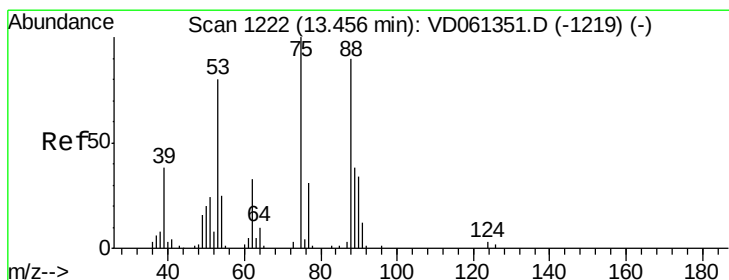
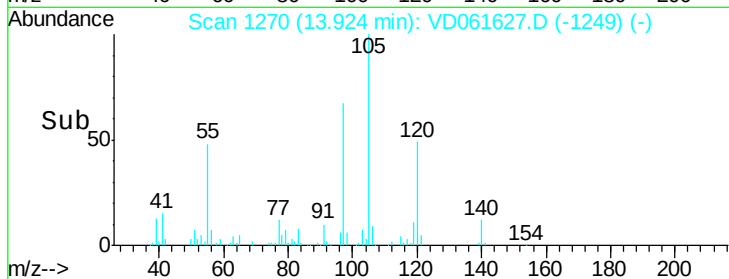
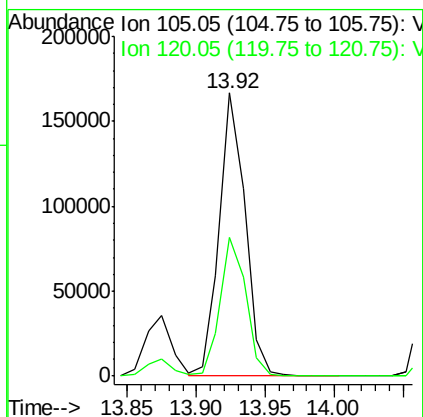
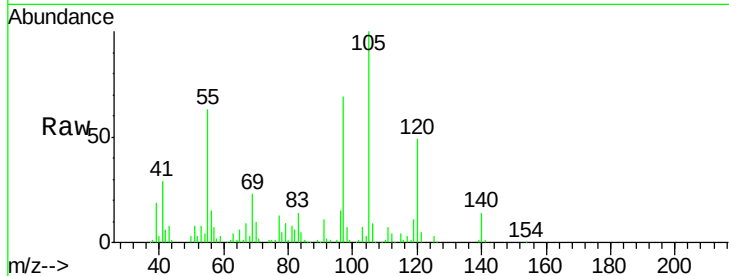




#80
 1,3,5-Trimethylbenzene
 Concen: 20.188 ug/l
 RT: 13.92 min Scan# 1270
 Delta R.T. 0.01 min
 Lab File: VD061627.D
 Acq: 5 Apr 2019 18:08

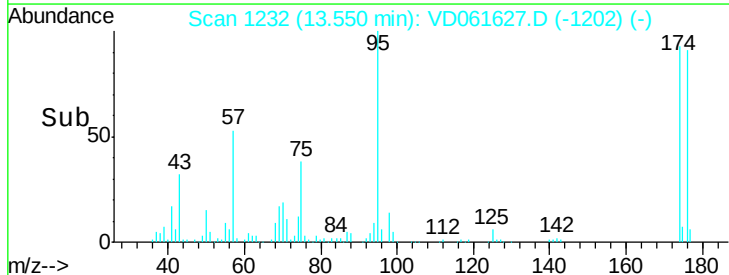
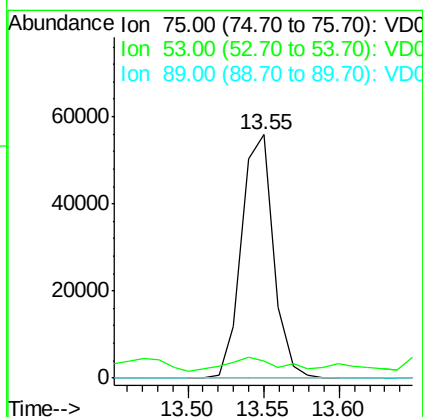
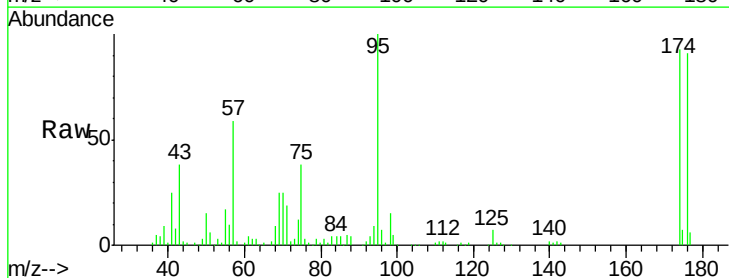
Instrument :
 MSVOA_D
 ClientSampled :

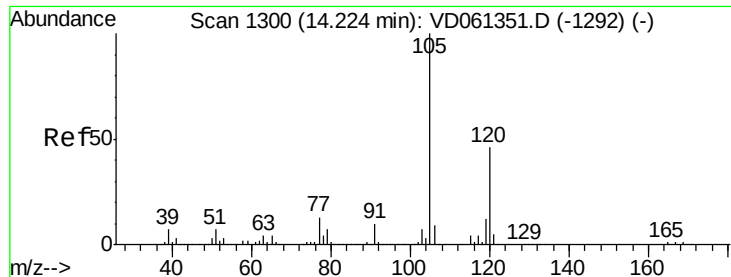
Tot Ion:105 Resp: 217570
 Ion Ratio Lower Upper
 105 100
 120 49.2 24.6 73.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 93.052 ug/l
 RT: 13.55 min Scan# 1232
 Delta R.T. 0.09 min
 Lab File: VD061627.D
 Acq: 5 Apr 2019 18:08

Tgt Ion: 75 Resp: 81792
 Ion Ratio Lower Upper
 75 100
 53 6.9 63.8 95.8#
 89 0.0 30.5 45.7#





#84

1,2,4-Trimethylbenzene

Concen: 16.638 ug/l

RT: 14.07 min Scan# 1285

Delta R.T. -0.15 min

Lab File: VD061627.D

Acq: 5 Apr 2019 18:08

Instrument :

MSVOA_D

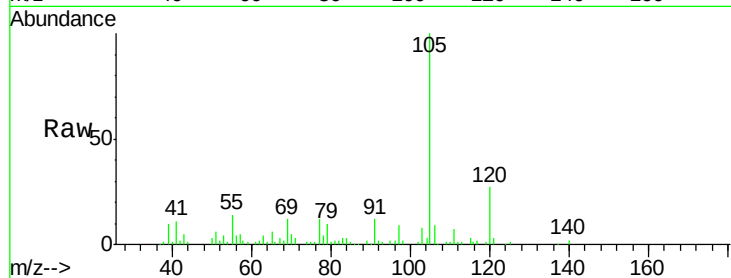
ClientSampleId :

Tot Ion:105 Resp: 194125

Ion Ratio Lower Upper

105 100

120 26.7 22.8 68.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

14.07

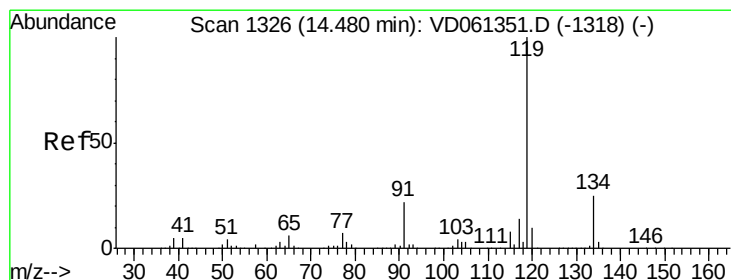
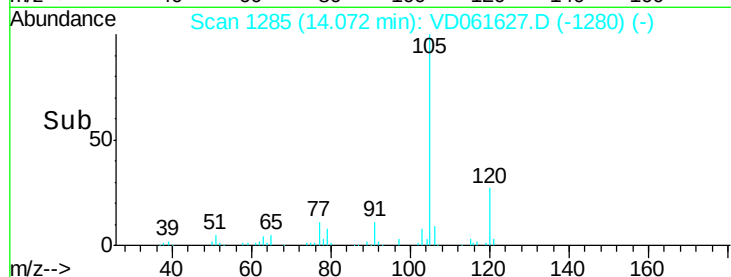
150000

100000

50000

0

Time-->



#86

p-Isopropyltoluene

Concen: 7.909 ug/l

RT: 14.49 min Scan# 1327

Delta R.T. 0.01 min

Lab File: VD061627.D

Acq: 5 Apr 2019 18:08

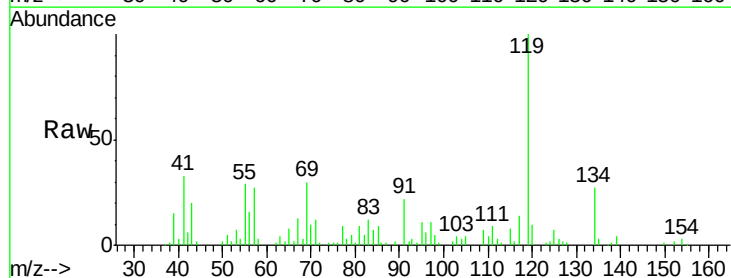
Tgt Ion:119 Resp: 95695

Ion Ratio Lower Upper

119 100

134 27.2 12.3 36.8

91 21.7 11.1 33.1



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

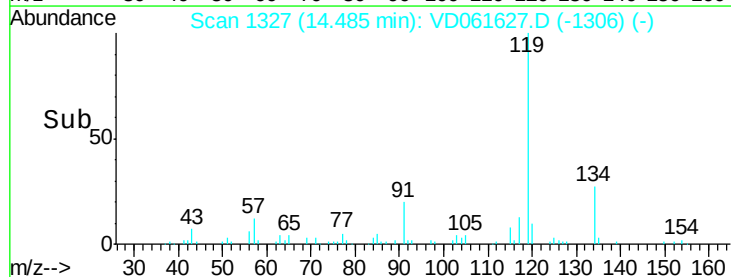
Ion 91.00 (90.70 to 91.70): V

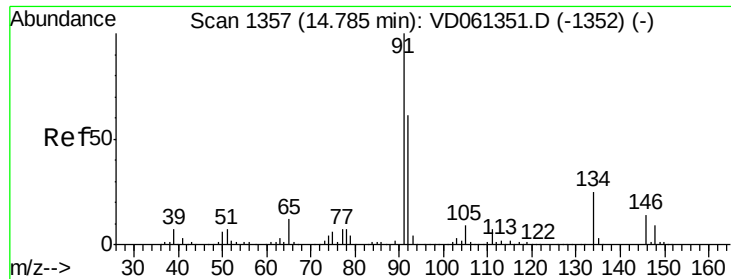
100000

50000

0

Time-->

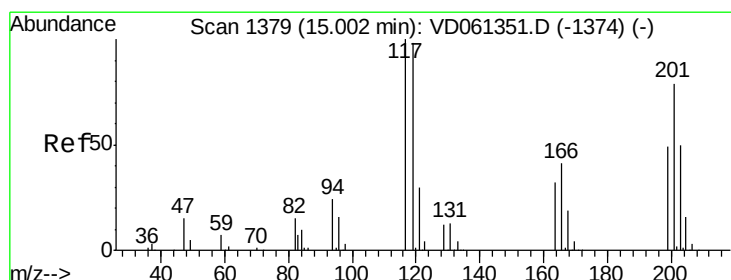
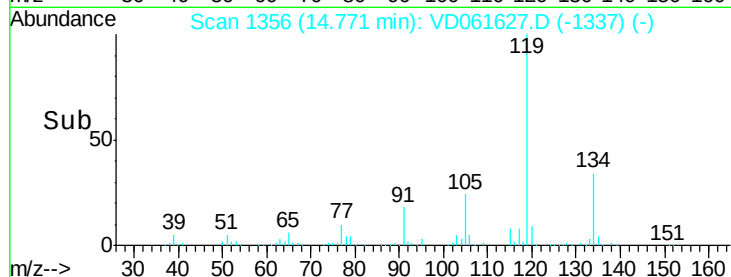
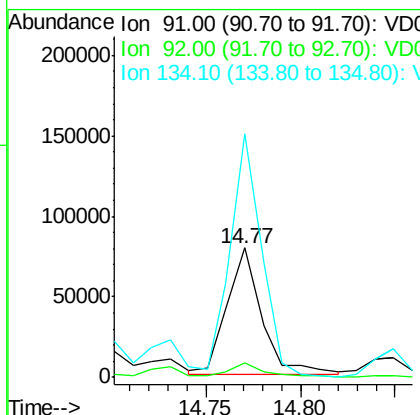
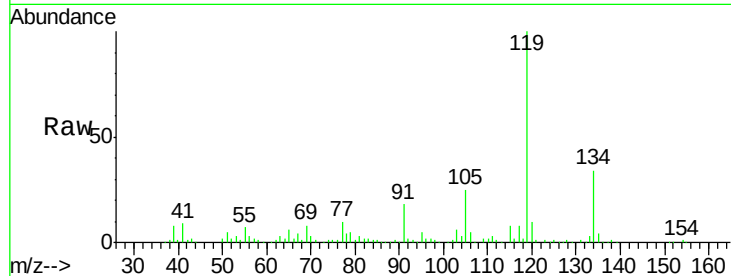




#89
n-Butylbenzene
Concen: 9.053 ug/l
RT: 14.77 min Scan# 1356
Delta R.T. -0.01 min
Lab File: VD061627.D
Acq: 5 Apr 2019 18:08

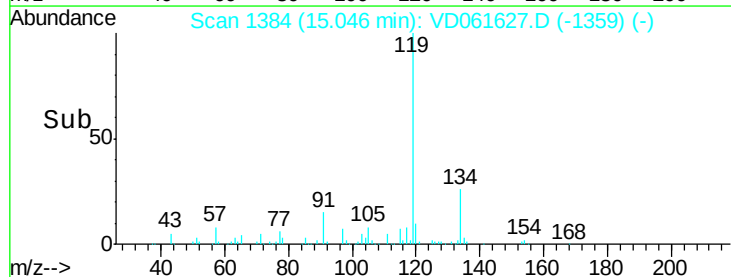
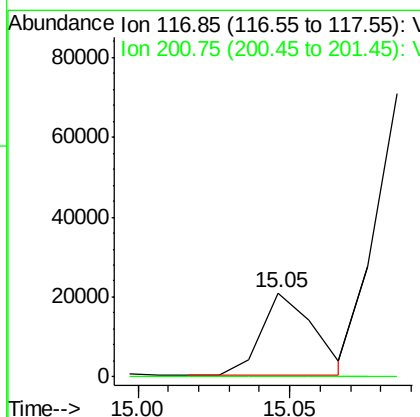
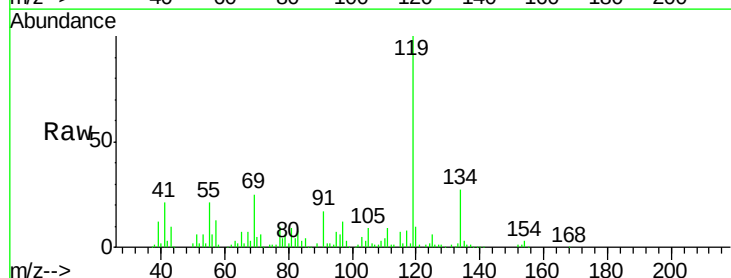
Instrument :
MSVOA_D
ClientSampled :

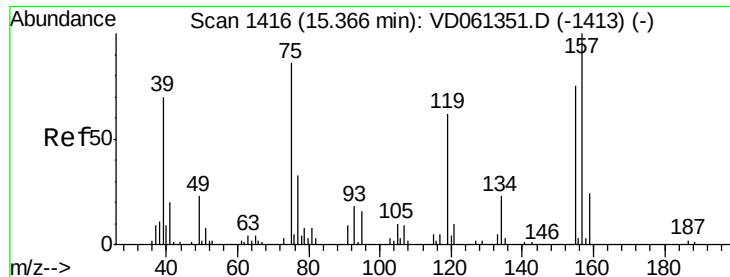
Tot Ion: 91 Resp: 100528
Ion Ratio Lower Upper
91 100
92 10.9 30.3 91.0#
134 187.9 12.4 37.0#



#90
Hexachloroethane
Concen: 7.212 ug/l
RT: 15.05 min Scan# 1384
Delta R.T. 0.04 min
Lab File: VD061627.D
Acq: 5 Apr 2019 18:08

Tgt Ion: 117 Resp: 24650
Ion Ratio Lower Upper
117 100
201 0.0 39.6 119.0#





#92

1,2-Dibromo-3-Chloropropane

Concen: 4.487 ug/l

RT: 15.37 min Scan# 1417

Delta R.T. 0.01 min

Lab File: VD061627.D

Acq: 5 Apr 2019 18:08

Instrument :

MSVOA_D

ClientSampleId :

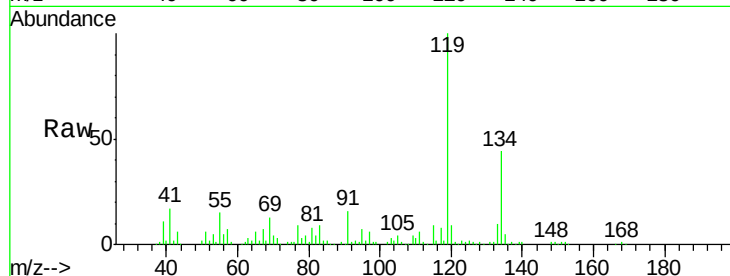
Tot Ion: 75 Resp: 1542

Ion Ratio Lower Upper

75 100

155 0.0 43.6 130.9#

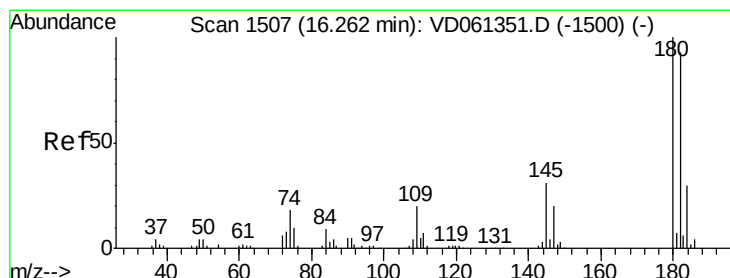
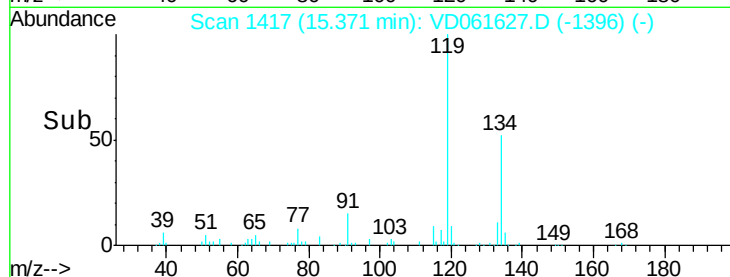
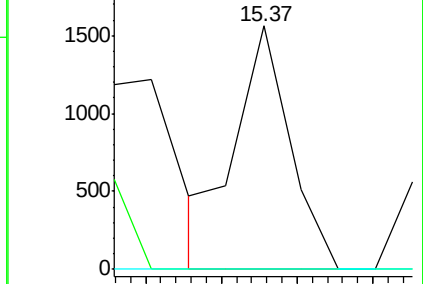
157 0.0 58.5 175.3#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V



#96

1,2,3-Trichlorobenzene

Concen: 1.800 ug/l

RT: 16.27 min Scan# 1508

Delta R.T. 0.01 min

Lab File: VD061627.D

Acq: 5 Apr 2019 18:08

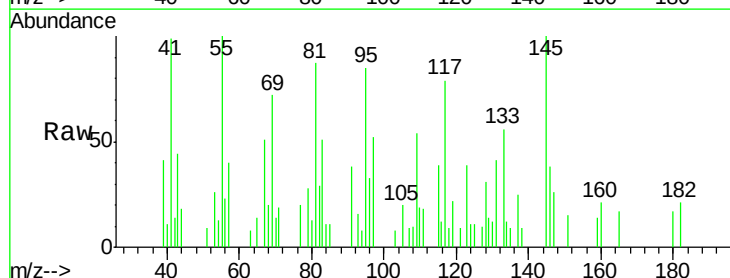
Tgt Ion: 180 Resp: 2064

Ion Ratio Lower Upper

180 100

182 125.5 46.4 139.1

145 587.6 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

