

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040419\
 Data File : VD061608.D
 Acq On : 5 Apr 2019 7:04
 Operator : VA/AP
 Sample : K2193-01
 Misc : 5.65g/5ml/MSVOA D/SOIL
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 05 08:21:01 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	7.03	168	99919	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.20	114	175964	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.34	117	86983	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	14.50	152	80231	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.43	65	78151	91.56	ug/l	0.00
Spiked Amount			Recovery	=	183.12%	
35) Dibromofluoromethane	6.90	113	90782	67.51	ug/l	0.00
Spiked Amount			Recovery	=	135.02%	
50) Toluene-d8	10.38	98	35566	11.03	ug/l	0.00
Spiked Amount			Recovery	=	22.06%	
62) 4-Bromofluorobenzene	13.53	95	71391	57.72	ug/l	-0.01
Spiked Amount			Recovery	=	115.44%	

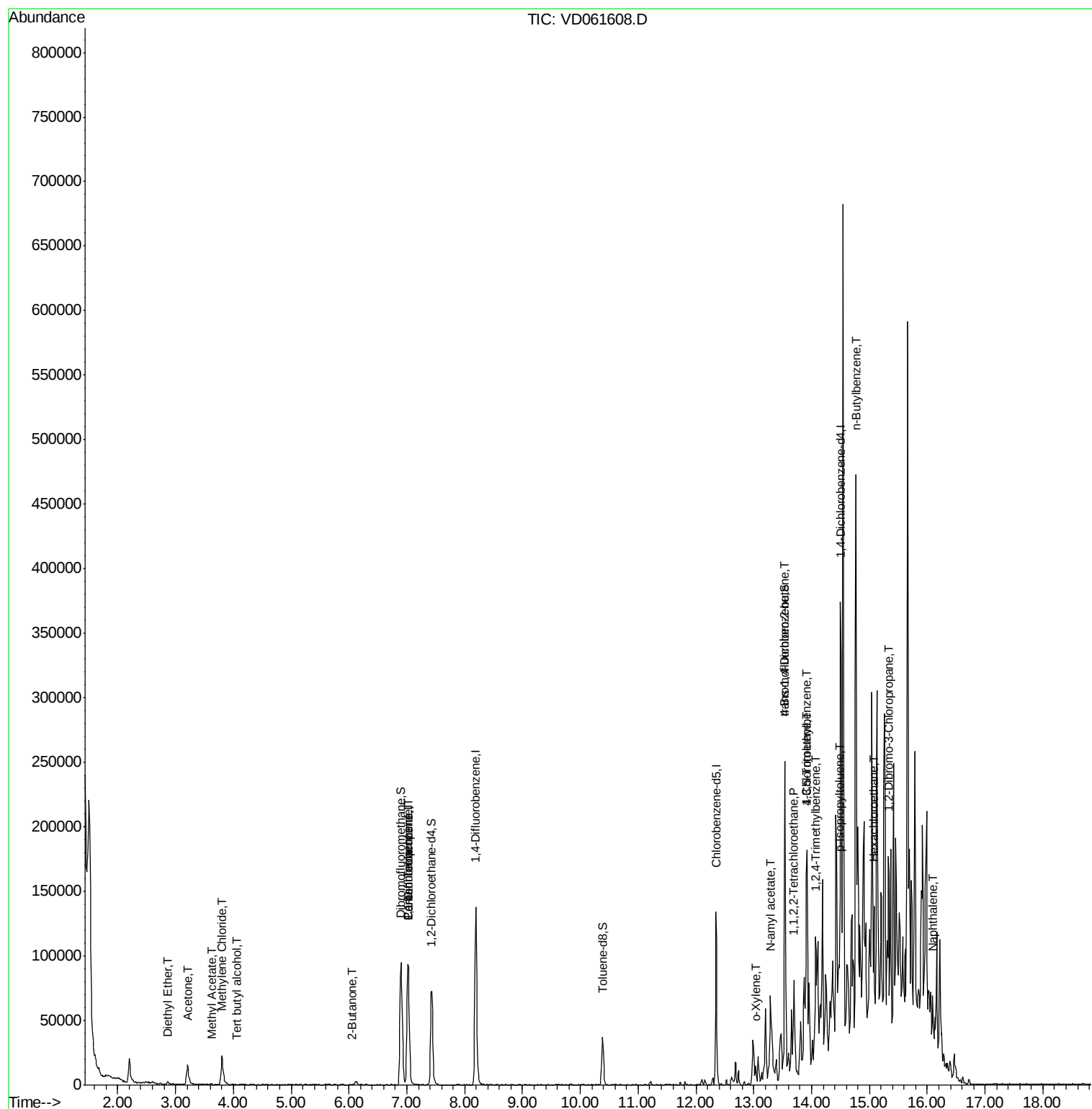
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.86	74	896	2.395	ug/l	86
11) Tert butyl alcohol	4.05	59	193	3.631	ug/l #	76
16) Acetone	3.21	43	32759	149.299	ug/l	98
18) Methyl Acetate	3.62	43	1431	3.102	ug/l #	55
20) Methylene Chloride	3.80	84	17536	12.839	ug/l	95
25) 2-Butanone	6.05	43	437	1.583	ug/l #	54
36) 1,1-Dichloropropene	7.02	75	6687	4.354	ug/l #	38
38) Carbon Tetrachloride	7.02	117	10081	5.712	ug/l #	10
69) o-Xylene	13.03	106	1555	1.559	ug/l	57
74) N-amyl acetate	13.28	43	6273	4.033	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	13.69	83	5416	4.598	ug/l #	50
80) 1,3,5-Trimethylbenzene	13.92	105	54215	12.513	ug/l	96
81) trans-1,4-Dichloro-2-buten	13.53	75	26307	74.447	ug/l #	20
82) 4-Chlorotoluene	13.92	91	5748	1.425	ug/l #	36
84) 1,2,4-Trimethylbenzene	14.07	105	54505	11.620	ug/l	70
86) p-Isopropyltoluene	14.48	119	26650	5.479	ug/l	99
89) n-Butylbenzene	14.77	91	33455	7.494	ug/l #	1
90) Hexachloroethane	15.08	117	38732	28.187	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	15.33	75	206	1.491	ug/l #	1
95) Naphthalene	16.09	128	1758	1.101	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: 7.03 min Scan# 569

Delta R.T. 0.01 min

Lab File: VD061608.D

Acq: 5 Apr 2019 7:04

Instrument :

MSVOA_D

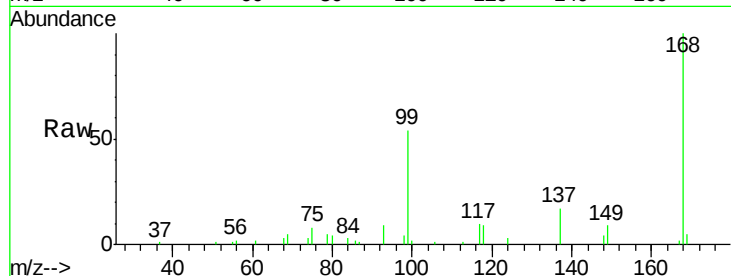
ClientSampleId :

Tot Ion:168 Resp: 99919

Ion Ratio Lower Upper

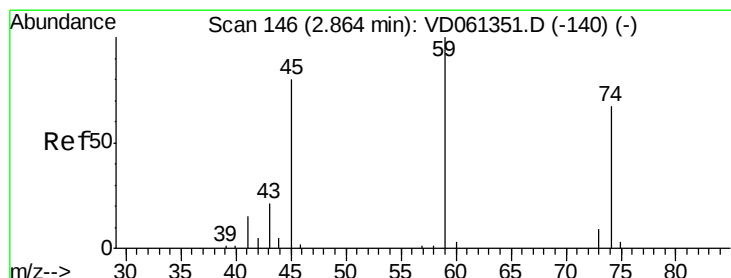
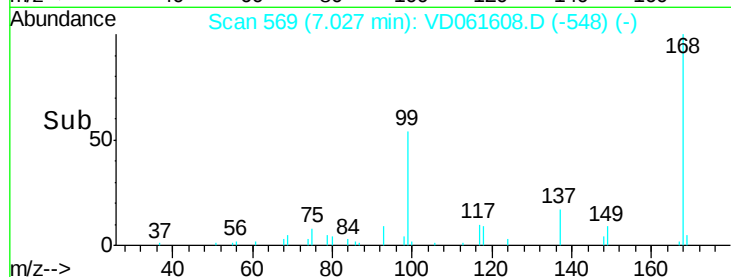
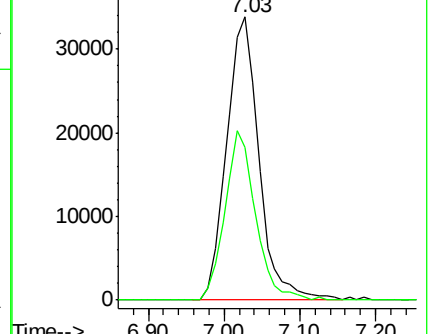
168 100

99 54.0 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#8

Diethyl Ether

Concen: 2.395 ug/l

RT: 2.86 min Scan# 146

Delta R.T. -0.00 min

Lab File: VD061608.D

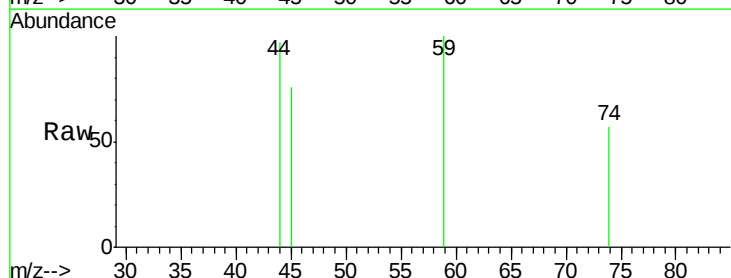
Acq: 5 Apr 2019 7:04

Tgt Ion: 74 Resp: 896

Ion Ratio Lower Upper

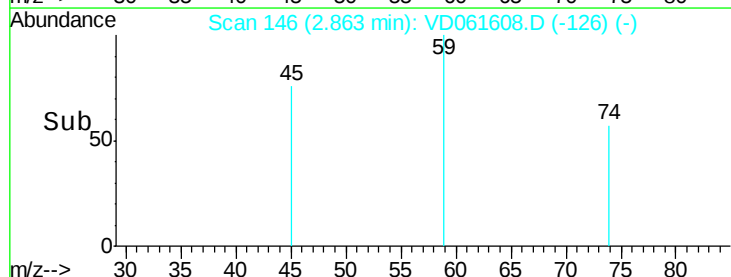
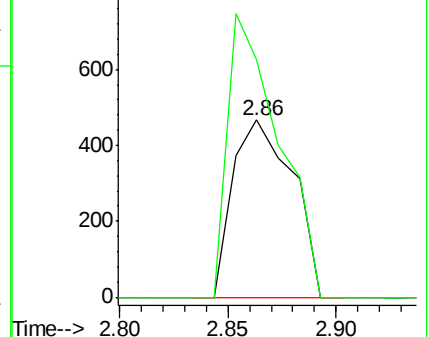
74 100

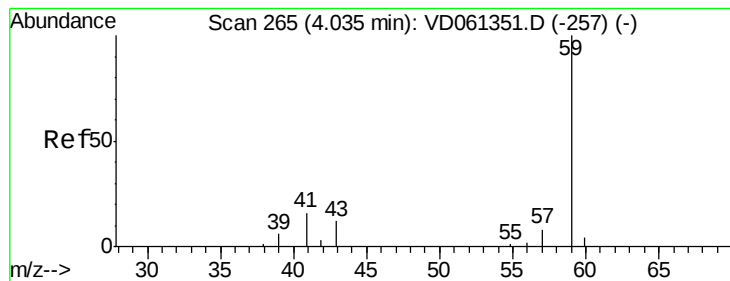
45 134.5 59.7 179.1



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



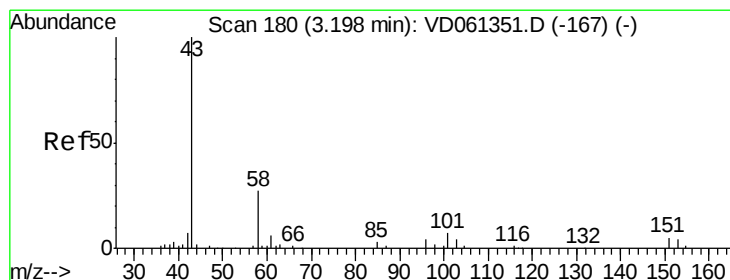
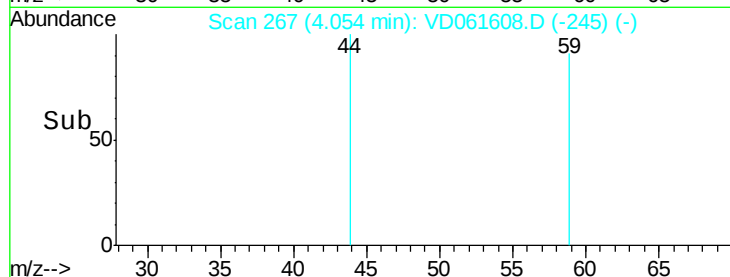
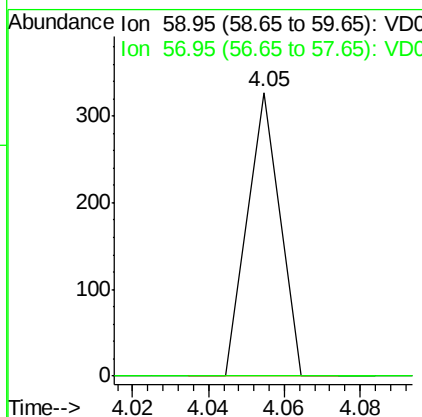
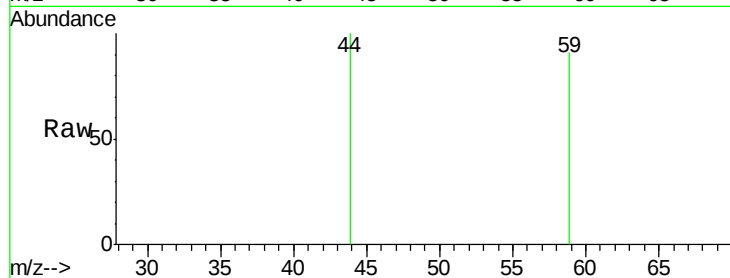


#11

Tert butyl alcohol
 Concen: 3.631 ug/l
 RT: 4.05 min Scan# 267
 Delta R.T. 0.02 min
 Lab File: VD061608.D
 Acq: 5 Apr 2019 7:04

Instrument :
 MSVOA_D
 ClientSampleId :

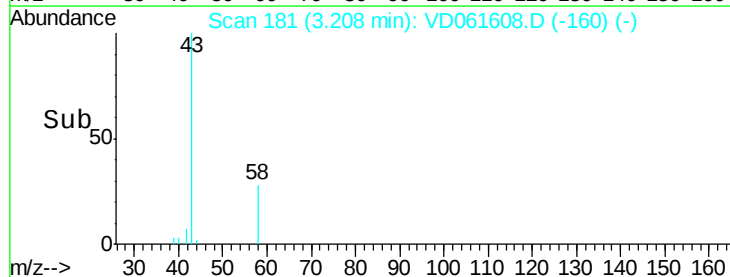
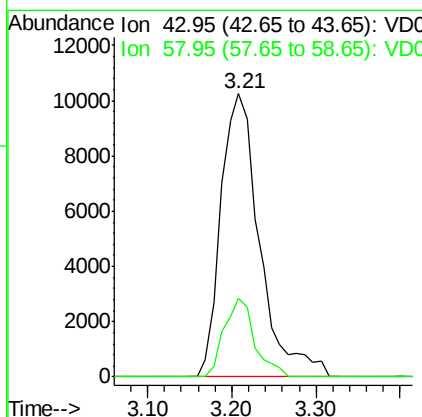
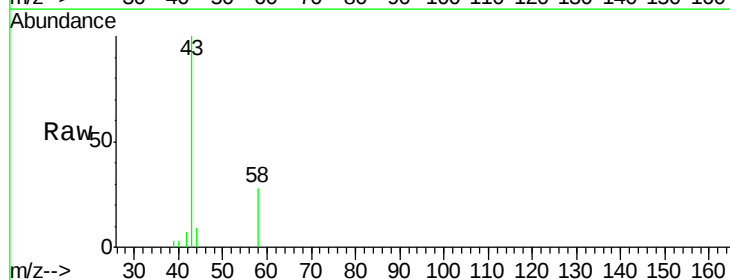
Tot Ion: 59 Resp: 193
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.7 10.1#

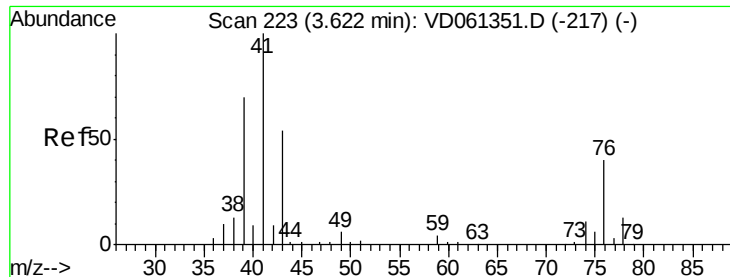


#16

Acetone
 Concen: 149.299 ug/l
 RT: 3.21 min Scan# 181
 Delta R.T. 0.01 min
 Lab File: VD061608.D
 Acq: 5 Apr 2019 7:04

Tgt Ion: 43 Resp: 32759
 Ion Ratio Lower Upper
 43 100
 58 27.7 21.5 32.3





#18

Methyl Acetate

Concen: 3.102 ug/l

RT: 3.62 min Scan# 223

Delta R.T. -0.00 min

Lab File: VD061608.D

Acq: 5 Apr 2019 7:04

Instrument :

MSVOA_D

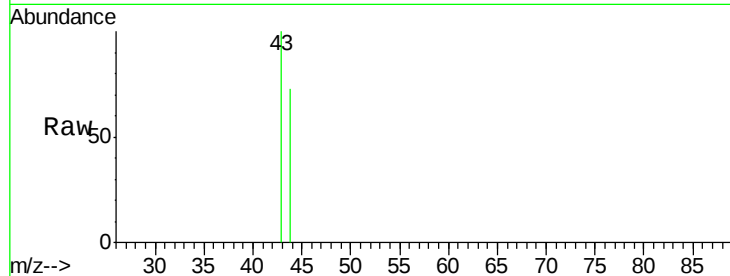
ClientSampleId :

Tot Ion: 43 Resp: 1431

Ion Ratio Lower Upper

43 100

74 0.0 16.7 25.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

3.62

800

600

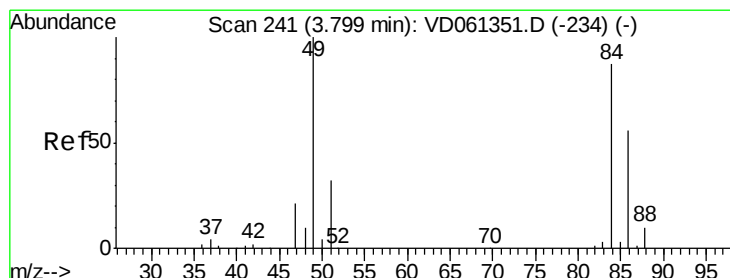
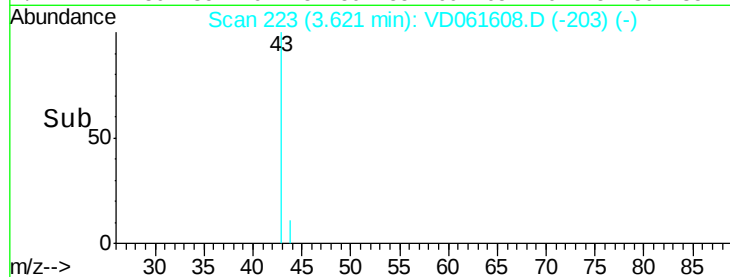
400

200

0

3.60 3.65

Time-->



#20

Methylene Chloride

Concen: 12.839 ug/l

RT: 3.80 min Scan# 241

Delta R.T. -0.00 min

Lab File: VD061608.D

Acq: 5 Apr 2019 7:04

Tgt Ion: 84 Resp: 17536

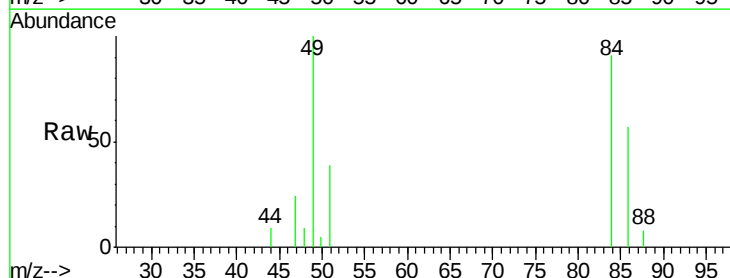
Ion Ratio Lower Upper

84 100

49 110.1 91.8 137.8

51 42.8 29.8 44.8

86 63.0 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

10000

8000

6000

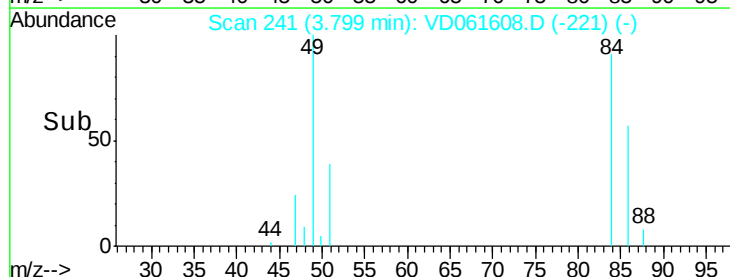
4000

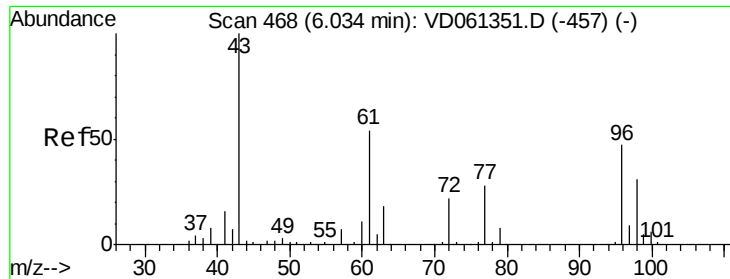
2000

0

3.70 3.80 3.90

Time-->

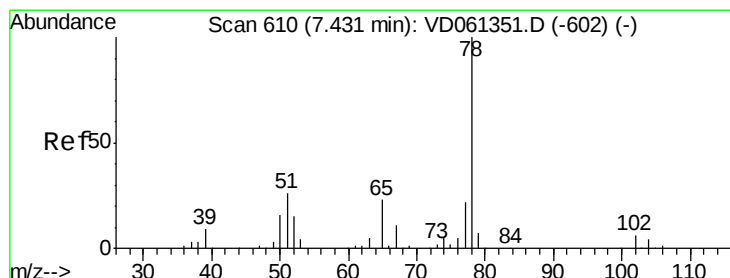
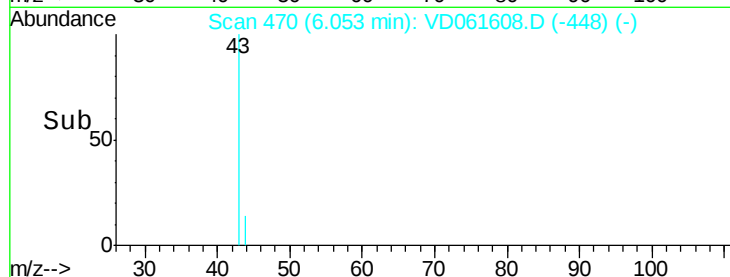
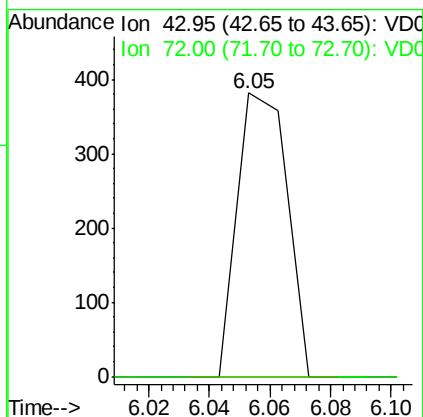
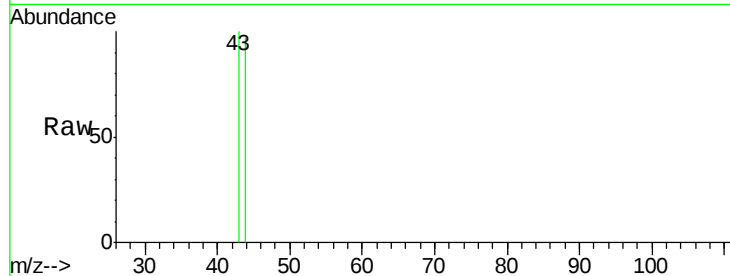




#25
 2-Butanone
 Concen: 1.583 ug/l
 RT: 6.05 min Scan# 470
 Delta R.T. 0.02 min
 Lab File: VD061608.D
 Acq: 5 Apr 2019 7:04

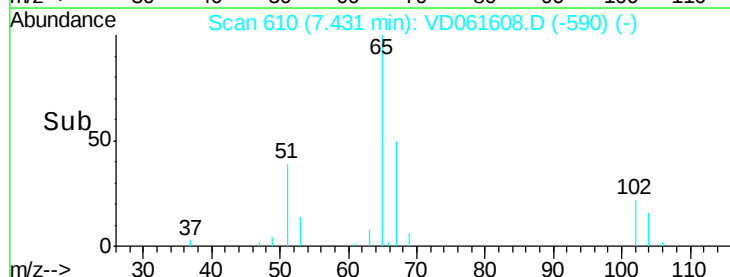
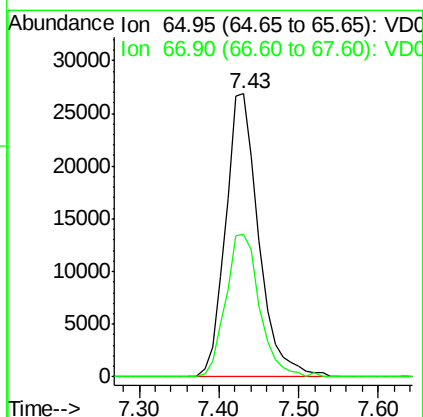
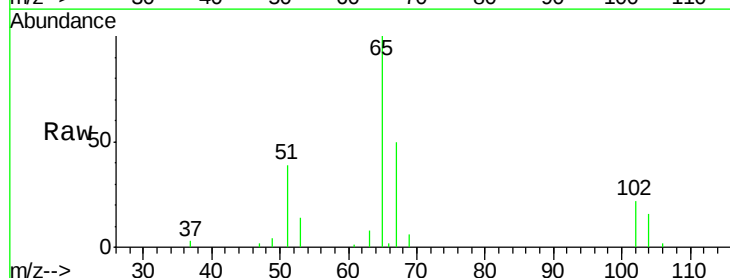
Instrument :
 MSVOA_D
 ClientSampleId :

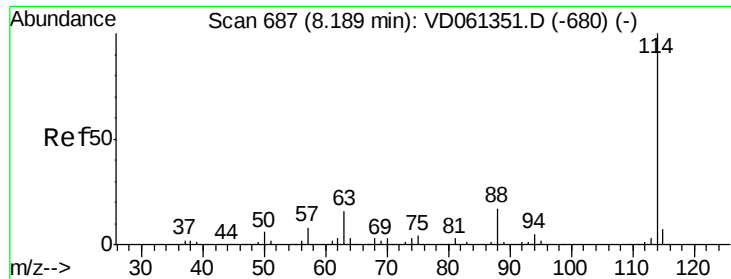
Tot Ion: 43 Resp: 437
 Ion Ratio Lower Upper
 43 100
 72 0.0 17.2 25.8#



#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 7.43 min Scan# 610
 Delta R.T. -0.00 min
 Lab File: VD061608.D
 Acq: 5 Apr 2019 7:04

Tgt Ion: 65 Resp: 78151
 Ion Ratio Lower Upper
 65 100
 67 50.4 0.0 99.8

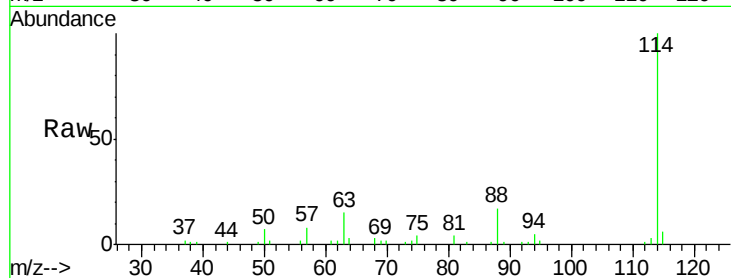




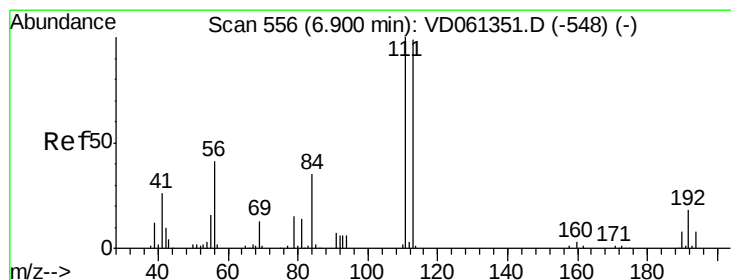
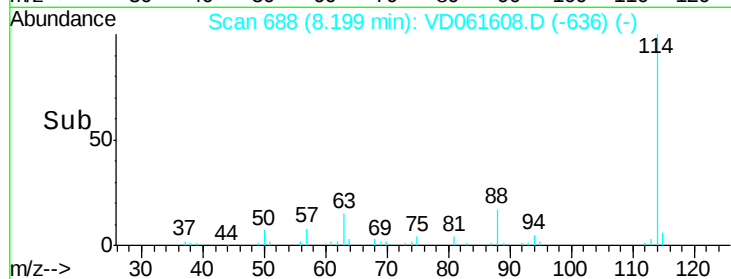
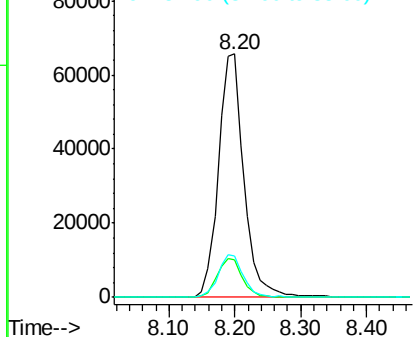
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.20 min Scan# 688
 Delta R.T. 0.01 min
 Lab File: VD061608.D
 Acq: 5 Apr 2019 7:04

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:114 Resp: 175964
 Ion Ratio Lower Upper
 114 100
 63 15.2 0.0 31.6
 88 17.0 0.0 33.4

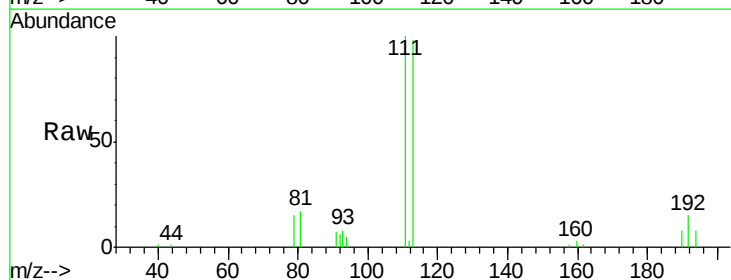


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

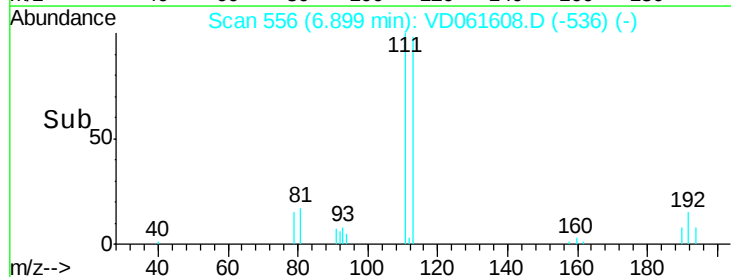
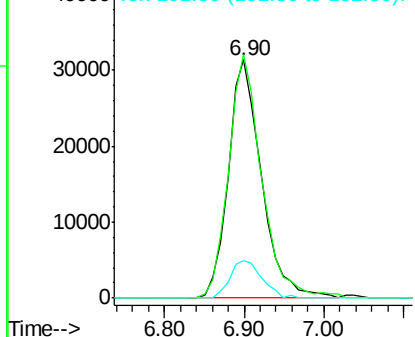


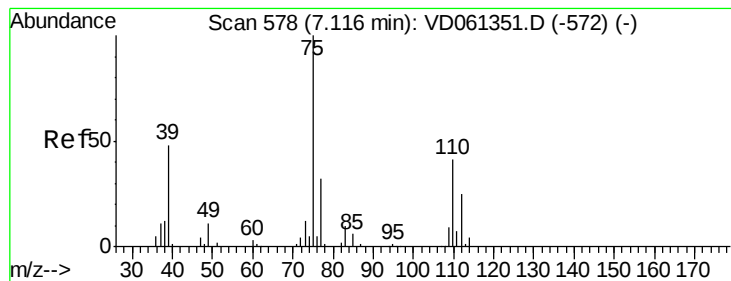
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.90 min Scan# 556
 Delta R.T. -0.00 min
 Lab File: VD061608.D
 Acq: 5 Apr 2019 7:04

Tgt Ion:113 Resp: 90782
 Ion Ratio Lower Upper
 113 100
 111 102.3 81.0 121.6
 192 15.6 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: 4.354 ug/l

RT: 7.02 min Scan# 568

Delta R.T. -0.10 min

Lab File: VD061608.D

Acq: 5 Apr 2019 7:04

Instrument :

MSVOA_D

ClientSampleId :

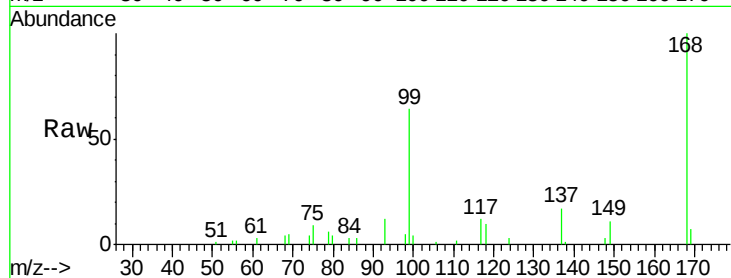
Tot Ion: 75 Resp: 6687

Ion Ratio Lower Upper

75 100

110 0.0 20.4 61.3#

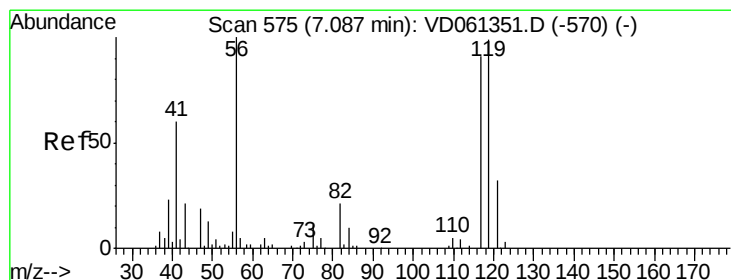
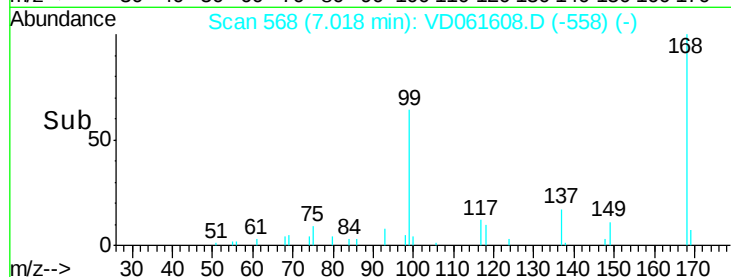
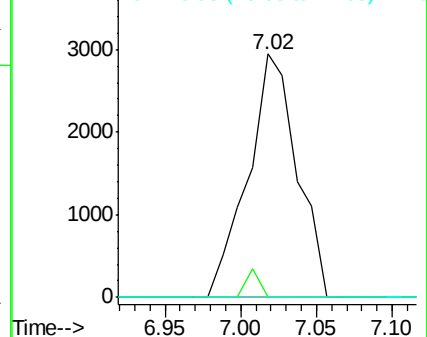
77 0.0 24.9 37.3#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V



#38

Carbon Tetrachloride

Concen: 5.712 ug/l

RT: 7.02 min Scan# 568

Delta R.T. -0.07 min

Lab File: VD061608.D

Acq: 5 Apr 2019 7:04

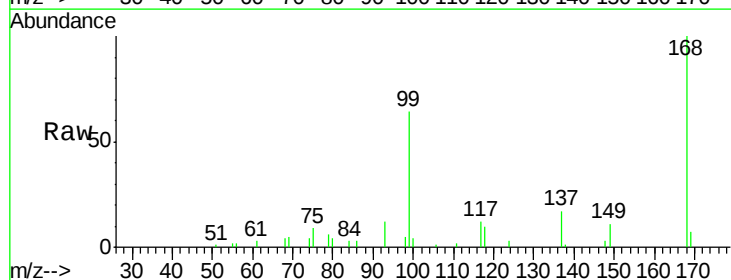
Tgt Ion: 117 Resp: 10081

Ion Ratio Lower Upper

117 100

119 0.0 80.1 120.1#

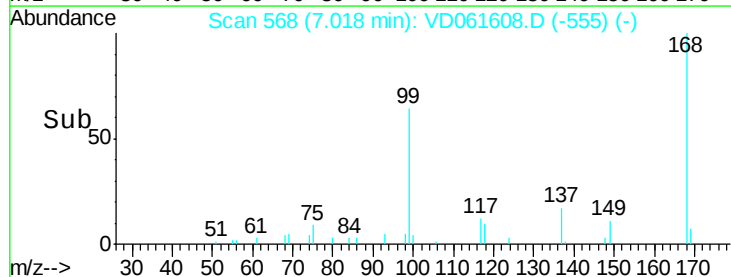
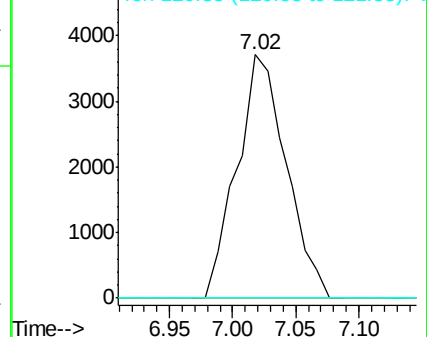
121 0.0 25.6 38.4#

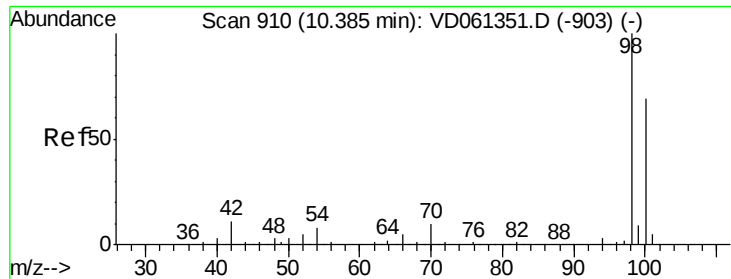


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.38 min Scan# 910

Delta R.T. -0.00 min

Lab File: VD061608.D

Acq: 5 Apr 2019 7:04

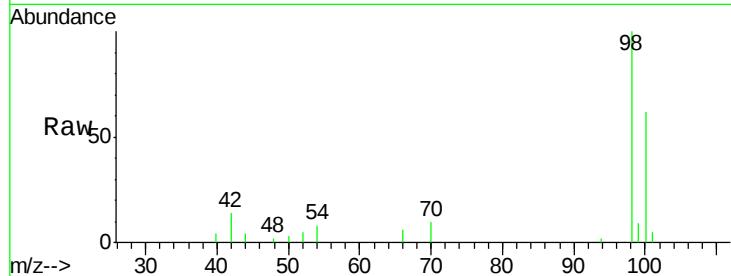
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 35566

Ion Ratio Lower Upper

98 100

100 62.0 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) (-)

10.38

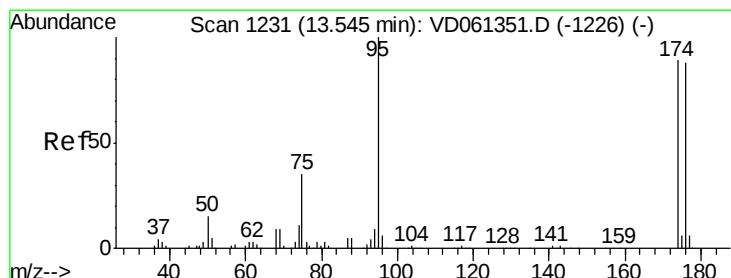
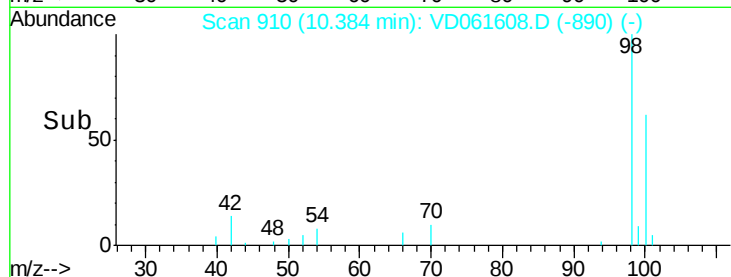
15000

10000

5000

0

Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.53 min Scan# 1230

Delta R.T. -0.01 min

Lab File: VD061608.D

Acq: 5 Apr 2019 7:04

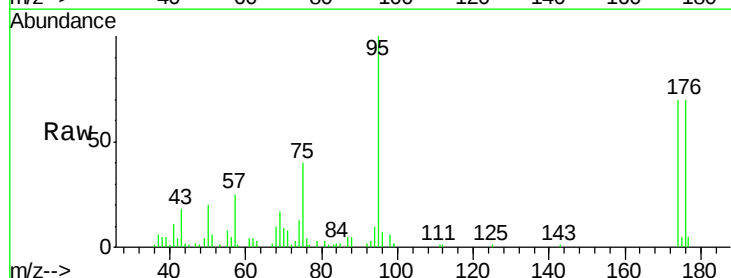
Tgt Ion: 95 Resp: 71391

Ion Ratio Lower Upper

95 100

174 69.9 0.0 178.0

176 69.6 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) (-)

13.53

60000

50000

40000

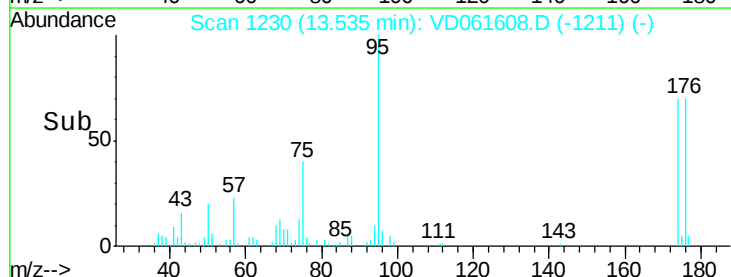
30000

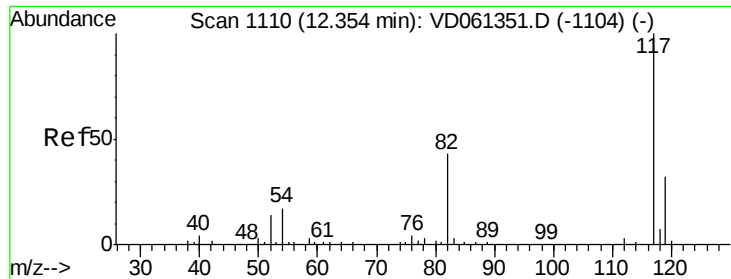
20000

10000

0

Time-->

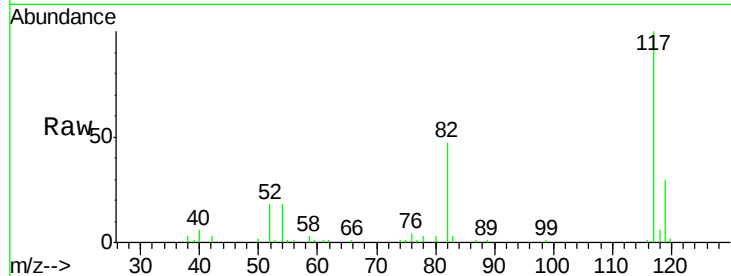




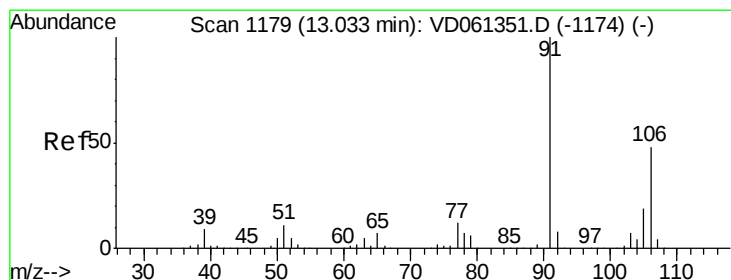
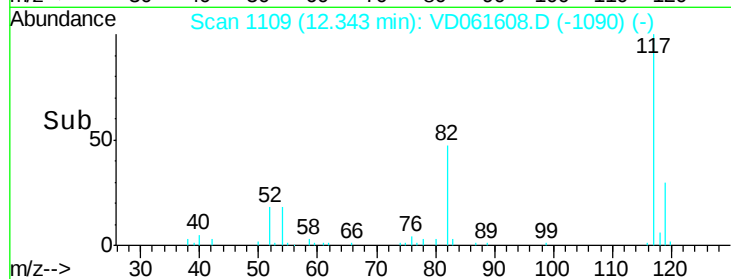
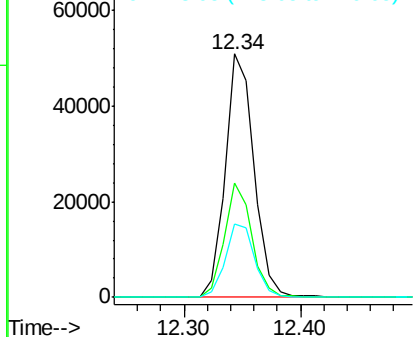
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.34 min Scan# 1109
Delta R.T. -0.01 min
Lab File: VD061608.D
Acq: 5 Apr 2019 7:04

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 86983
Ion Ratio Lower Upper
117 100
82 46.8 34.4 51.6
119 30.4 25.8 38.6

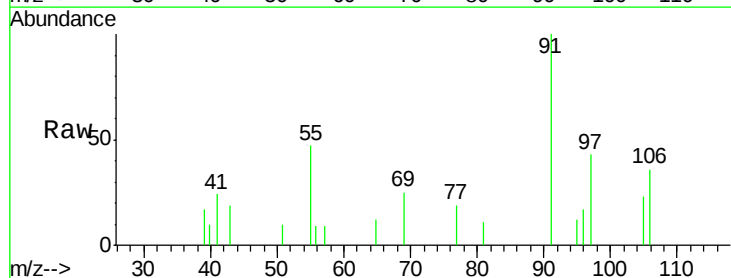


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): VDC
Ion 118.95 (118.65 to 119.65): V

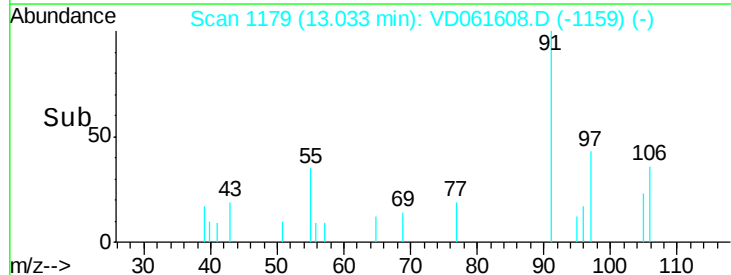
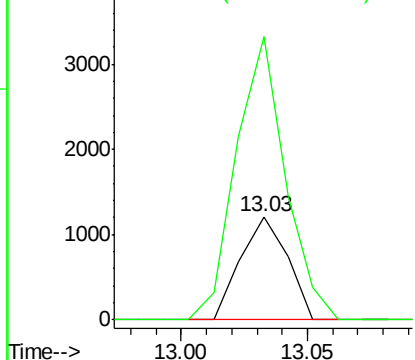


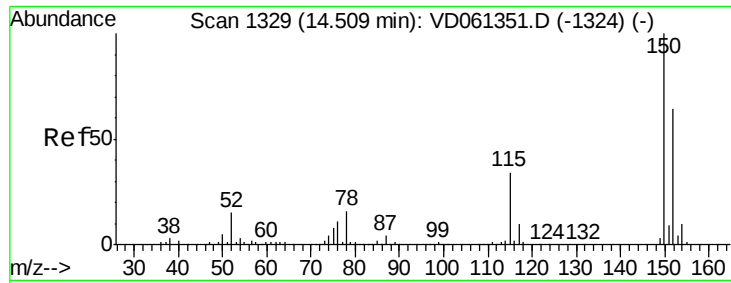
#69
o-Xylene
Concen: 1.559 ug/l
RT: 13.03 min Scan# 1179
Delta R.T. -0.00 min
Lab File: VD061608.D
Acq: 5 Apr 2019 7:04

Tgt Ion:106 Resp: 1555
Ion Ratio Lower Upper
106 100
91 274.6 103.8 311.3



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



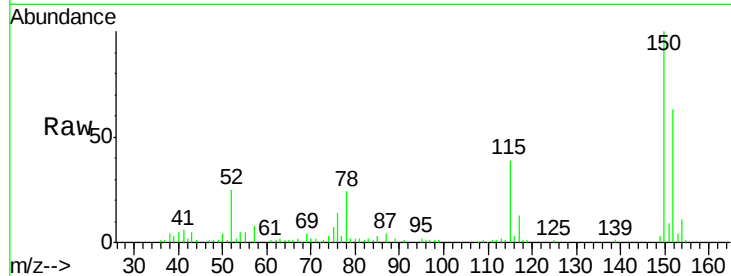


#72

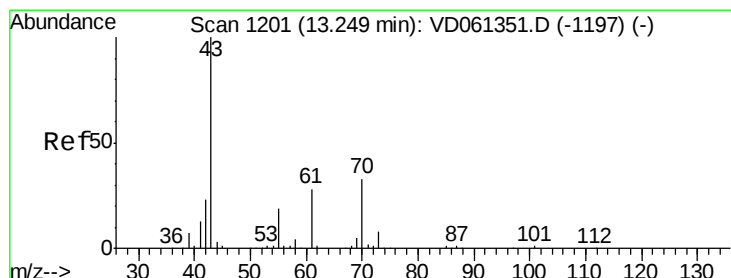
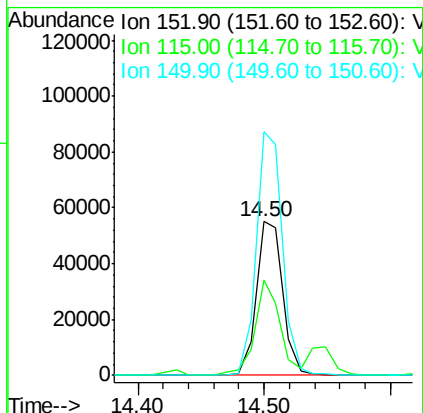
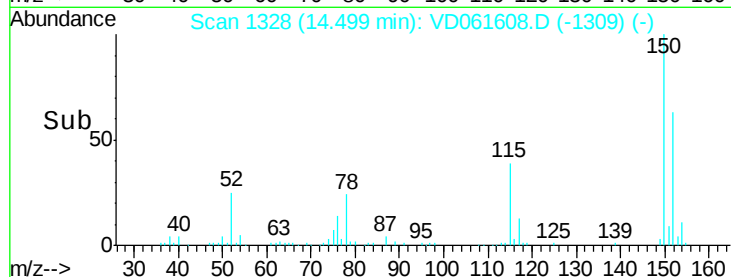
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.50 min Scan# 1328
Delta R.T. -0.01 min
Lab File: VD061608.D
Acq: 5 Apr 2019 7:04

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:152 Resp: 80231
Ion Ratio Lower Upper
152 100
115 61.8 26.9 80.6
150 158.4 0.0 318.0



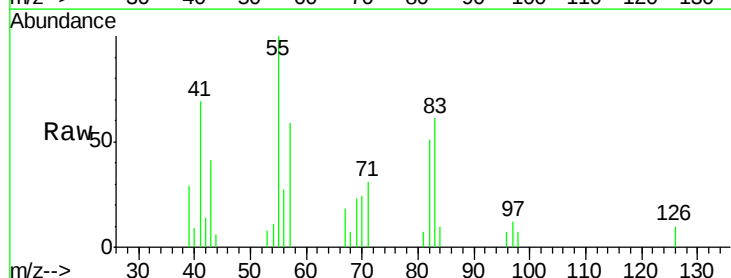
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V



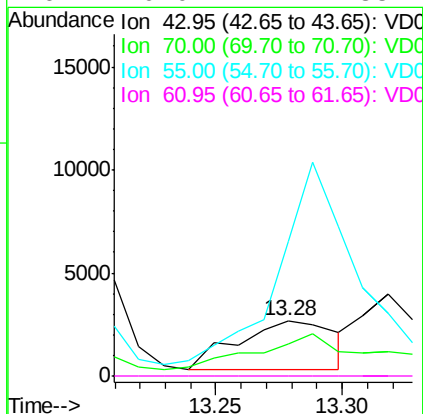
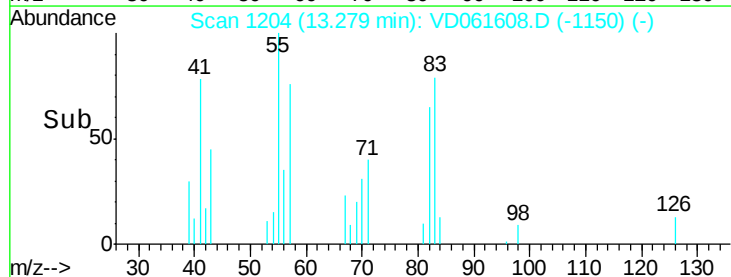
#74

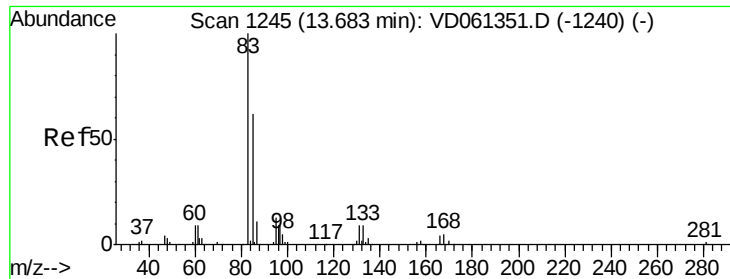
N-ethyl acetate
Concen: 4.033 ug/l
RT: 13.28 min Scan# 1204
Delta R.T. 0.03 min
Lab File: VD061608.D
Acq: 5 Apr 2019 7:04

Tgt Ion: 43 Resp: 6273
Ion Ratio Lower Upper
43 100
70 58.6 26.6 40.0#
55 243.7 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: 4.598 ug/l

RT: 13.69 min Scan# 1246

Delta R.T. 0.01 min

Lab File: VD061608.D

Acq: 5 Apr 2019 7:04

Instrument :

MSVOA_D

ClientSampleId :

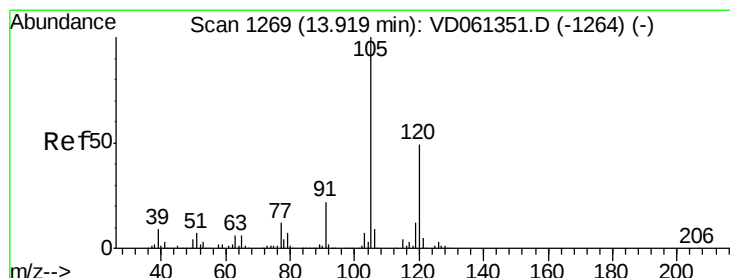
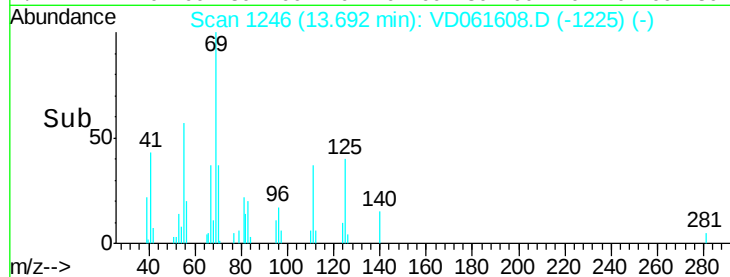
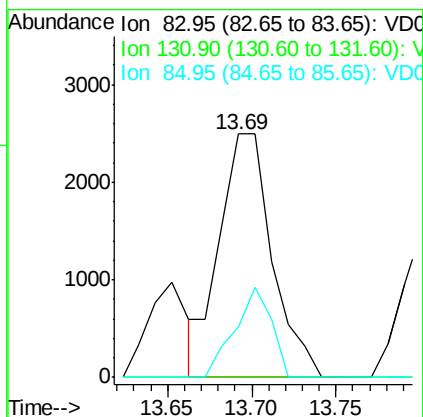
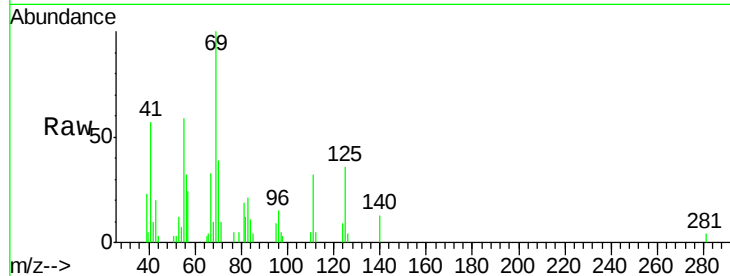
Tot Ion: 83 Resp: 5416

Ion Ratio Lower Upper

83 100

131 0.0 4.3 13.1#

85 20.7 31.2 93.6#



#80

1,3,5-Trimethylbenzene

Concen: 12.513 ug/l

RT: 13.92 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VD061608.D

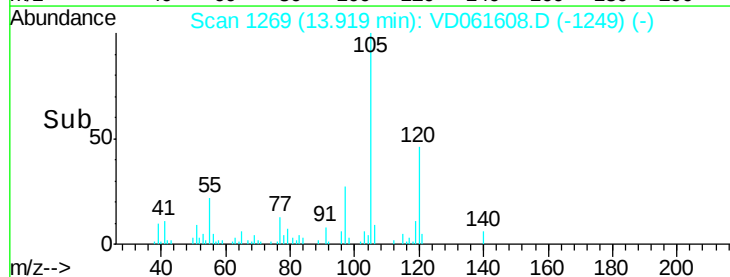
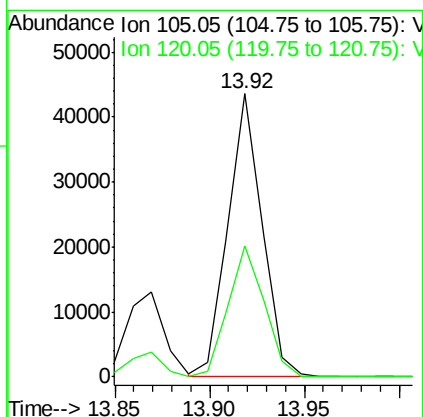
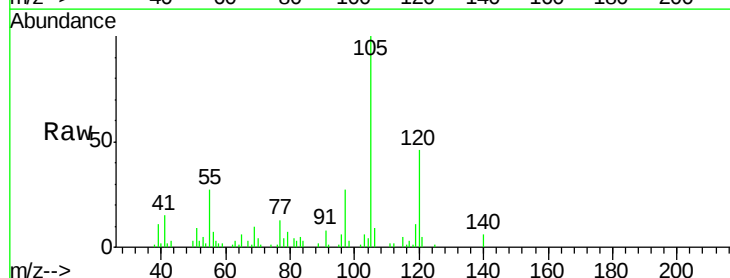
Acq: 5 Apr 2019 7:04

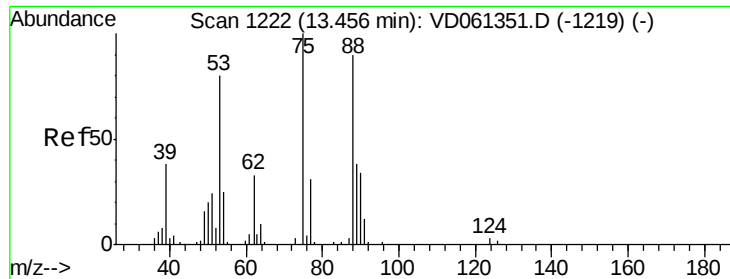
Tgt Ion:105 Resp: 54215

Ion Ratio Lower Upper

105 100

120 46.1 24.6 73.6





#81

trans-1,4-Dichloro-2-butene

Concen: 74.447 ug/l

RT: 13.53 min Scan# 1230

Delta R.T. 0.08 min

Lab File: VD061608.D

Acq: 5 Apr 2019 7:04

Instrument :

MSVOA_D

ClientSampleId :

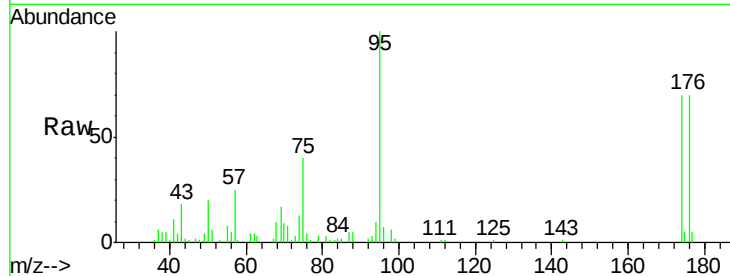
Tot Ion: 75 Resp: 26307

Ion Ratio Lower Upper

75 100

53 2.8 63.8 95.8#

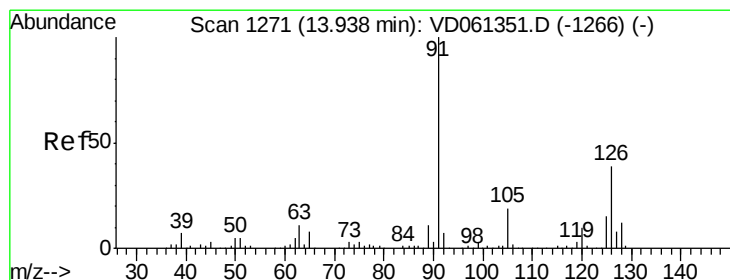
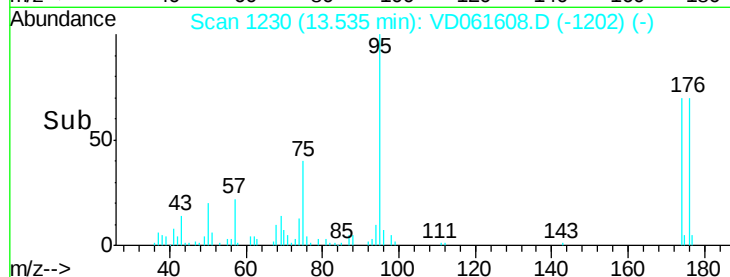
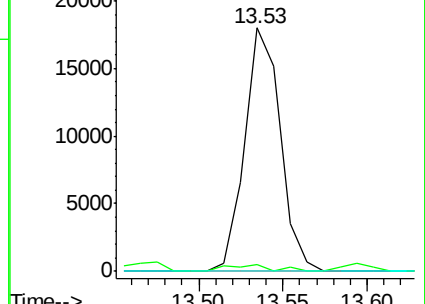
89 0.0 30.5 45.7#



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



#82

4-Chlorotoluene

Concen: 1.425 ug/l

RT: 13.92 min Scan# 1269

Delta R.T. -0.02 min

Lab File: VD061608.D

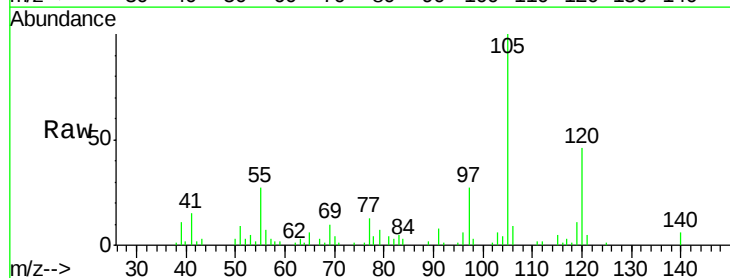
Acq: 5 Apr 2019 7:04

Tgt Ion: 91 Resp: 5748

Ion Ratio Lower Upper

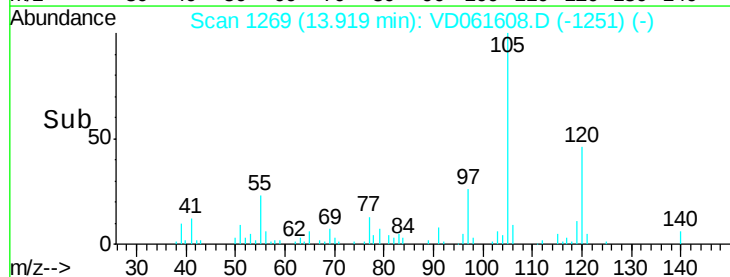
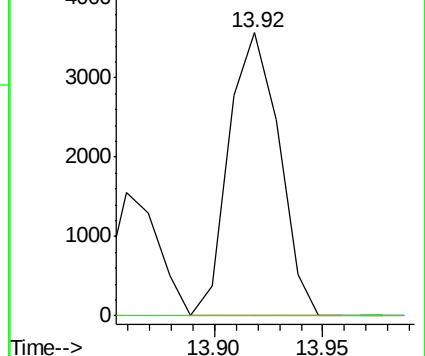
91 100

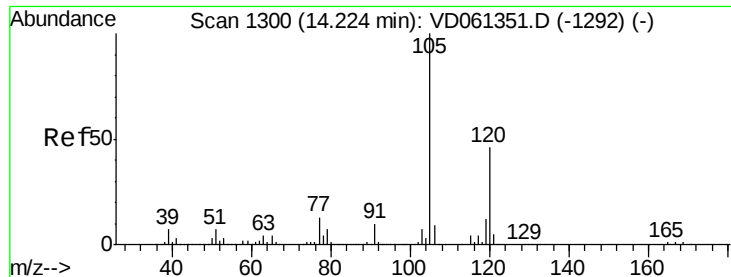
126 0.0 19.6 58.8#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V





#84

1,2,4-Trimethylbenzene

Concen: 11.620 ug/l

RT: 14.07 min Scan# 1284

Delta R.T. -0.16 min

Lab File: VD061608.D

Acq: 5 Apr 2019 7:04

Instrument :

MSVOA_D

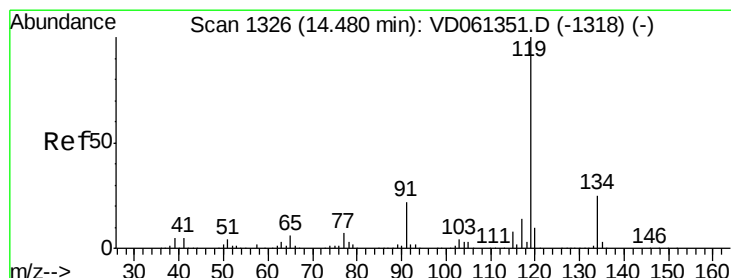
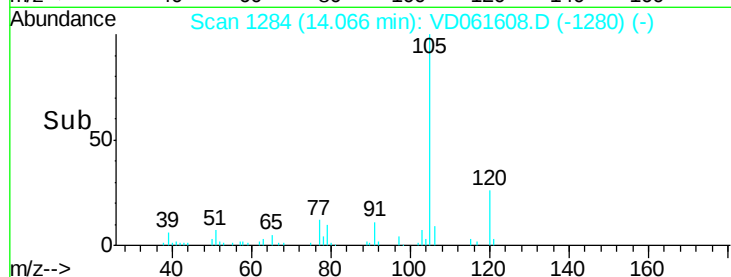
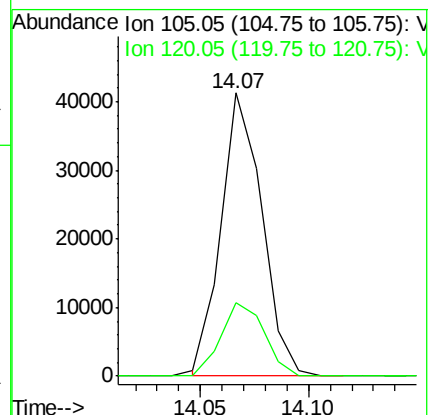
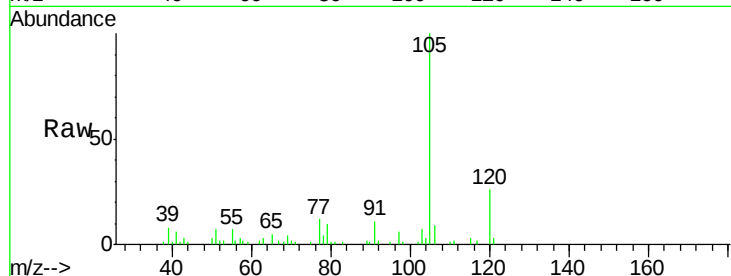
ClientSampleId :

Tot Ion:105 Resp: 54505

Ion Ratio Lower Upper

105 100

120 26.1 22.8 68.4



#86

p-Isopropyltoluene

Concen: 5.479 ug/l

RT: 14.48 min Scan# 1326

Delta R.T. -0.00 min

Lab File: VD061608.D

Acq: 5 Apr 2019 7:04

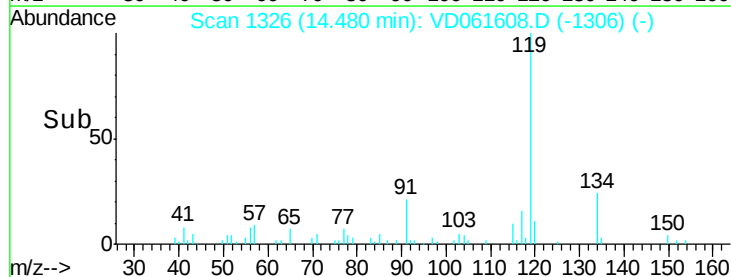
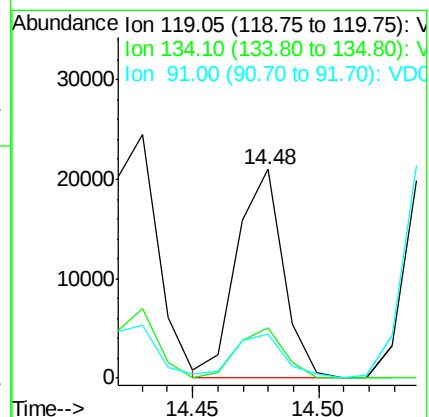
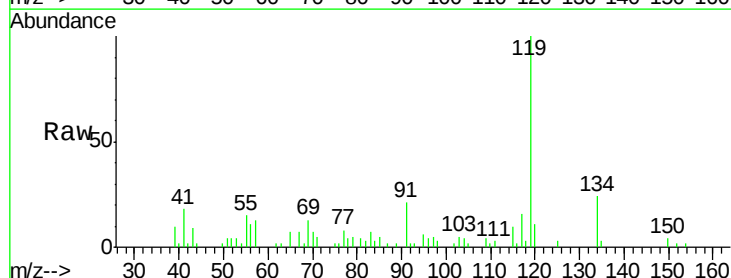
Tgt Ion:119 Resp: 26650

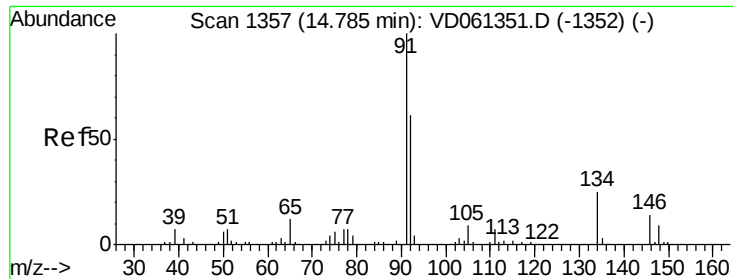
Ion Ratio Lower Upper

119 100

134 24.3 12.3 36.8

91 21.0 11.1 33.1

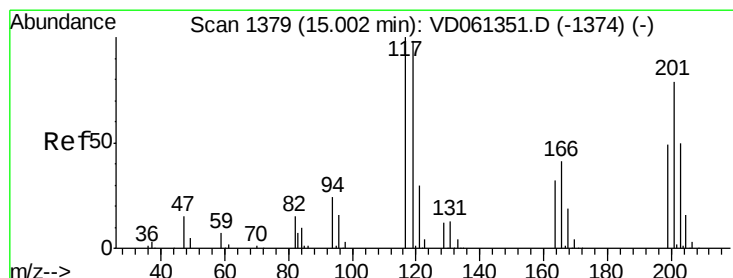
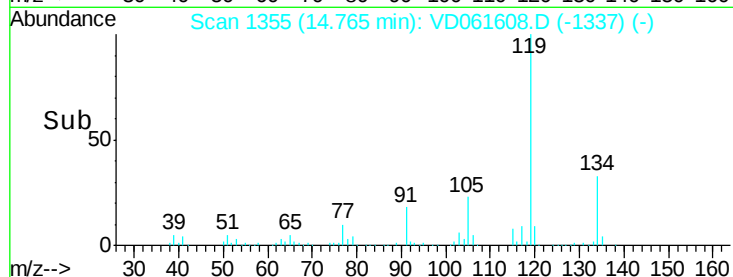
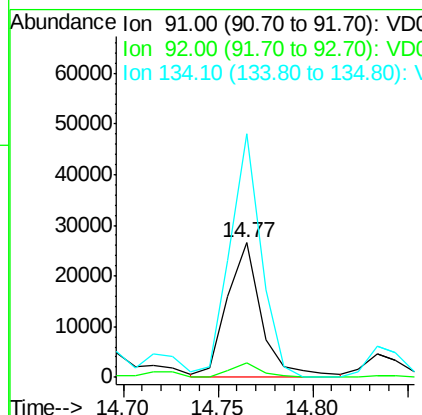
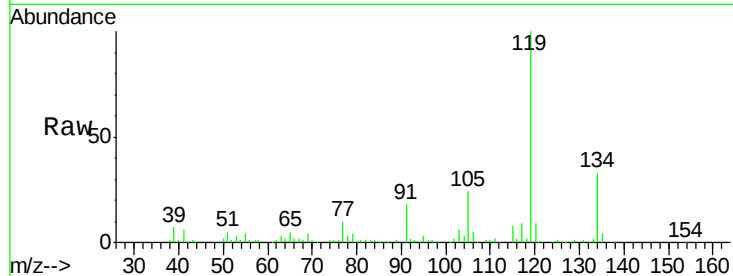




#89
n-Butylbenzene
Concen: 7.494 ug/l
RT: 14.77 min Scan# 1355
Delta R.T. -0.02 min
Lab File: VD061608.D
Acq: 5 Apr 2019 7:04

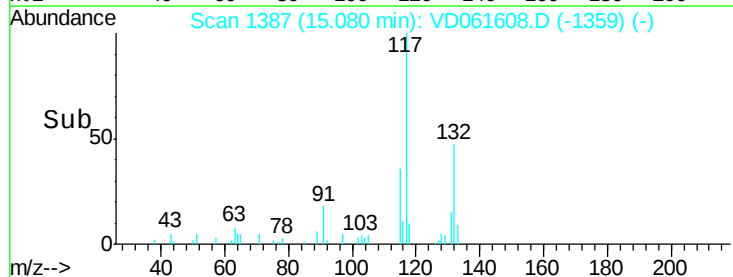
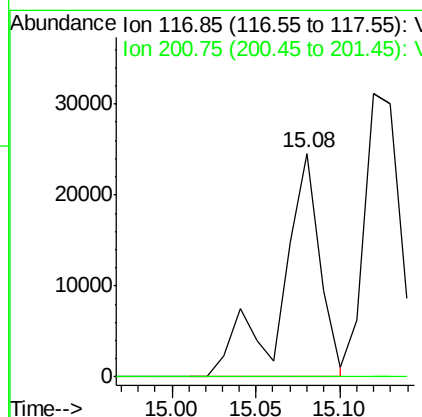
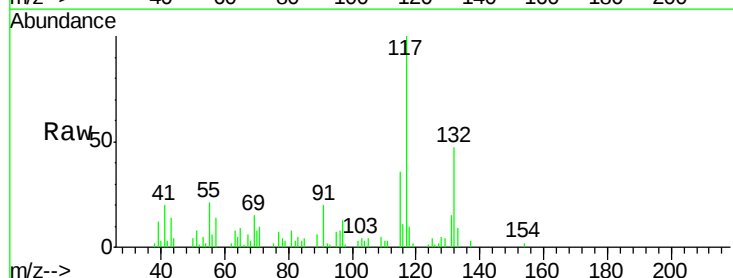
Instrument :
MSVOA_D
ClientSampleId :

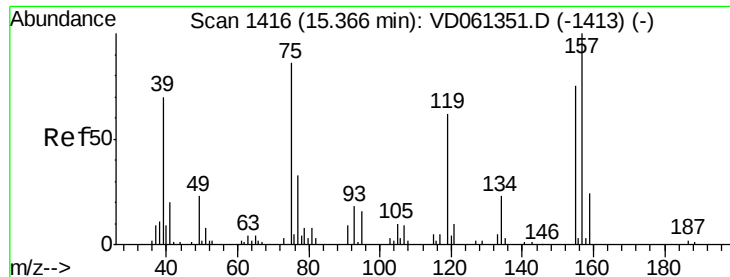
Tot Ion: 91 Resp: 33455
Ion Ratio Lower Upper
91 100
92 10.5 30.3 91.0#
134 181.3 12.4 37.0#



#90
Hexachloroethane
Concen: 28.187 ug/l
RT: 15.08 min Scan# 1387
Delta R.T. 0.08 min
Lab File: VD061608.D
Acq: 5 Apr 2019 7:04

Tgt Ion: 117 Resp: 38732
Ion Ratio Lower Upper
117 100
201 0.0 39.6 119.0#

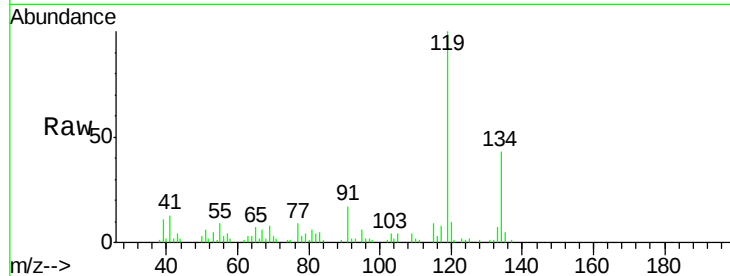




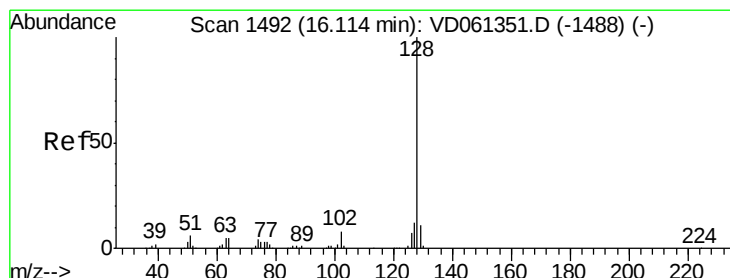
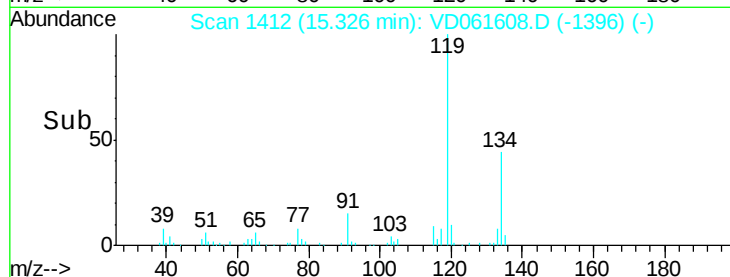
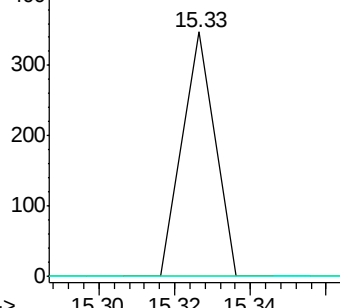
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.491 ug/l
 RT: 15.33 min Scan# 1412
 Delta R.T. -0.04 min
 Lab File: VD061608.D
 Acq: 5 Apr 2019 7:04

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 75 Resp: 206
 Ion Ratio Lower Upper
 75 100
 155 0.0 43.6 130.9#
 157 0.0 58.5 175.3#

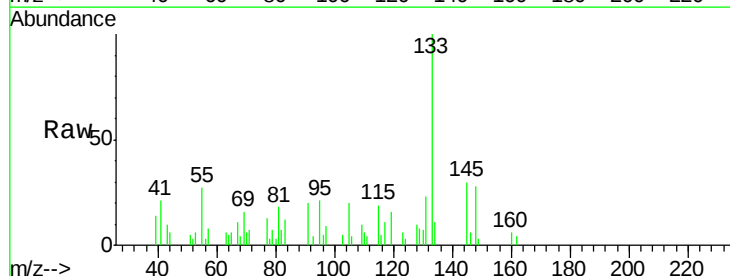


Abundance Ion 75.00 (74.70 to 75.70): V
 Ion 154.90 (154.60 to 155.60): V
 Ion 156.85 (156.55 to 157.55): V



#95
 Naphthalene
 Concen: 1.101 ug/l
 RT: 16.09 min Scan# 1490
 Delta R.T. -0.02 min
 Lab File: VD061608.D
 Acq: 5 Apr 2019 7:04

Tgt Ion: 128 Resp: 1758
 Ion Ratio Lower Upper
 128 100
 127 0.0 9.9 14.9#
 129 77.3 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

