

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061819\
 Data File : VD062753.D
 Acq On : 18 Jun 2019 16:52
 Operator : VA/AP
 Sample : K3382-07RE
 Misc : 5.05µl/5ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 19 05:25:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 00:02:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	147198	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.23	114	214537	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.37	117	206403	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	109286	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	147817	69.59	ug/l	0.01
Spiked Amount 50.000			Recovery	=	139.18%	
35) Dibromofluoromethane	6.93	113	117014	51.72	ug/l	0.01
Spiked Amount 50.000			Recovery	=	103.44%	
50) Toluene-d8	10.41	98	192243	40.39	ug/l	0.00
Spiked Amount 50.000			Recovery	=	80.78%	
62) 4-Bromofluorobenzene	13.56	95	107944	48.61	ug/l	0.01
Spiked Amount 50.000			Recovery	=	97.22%	

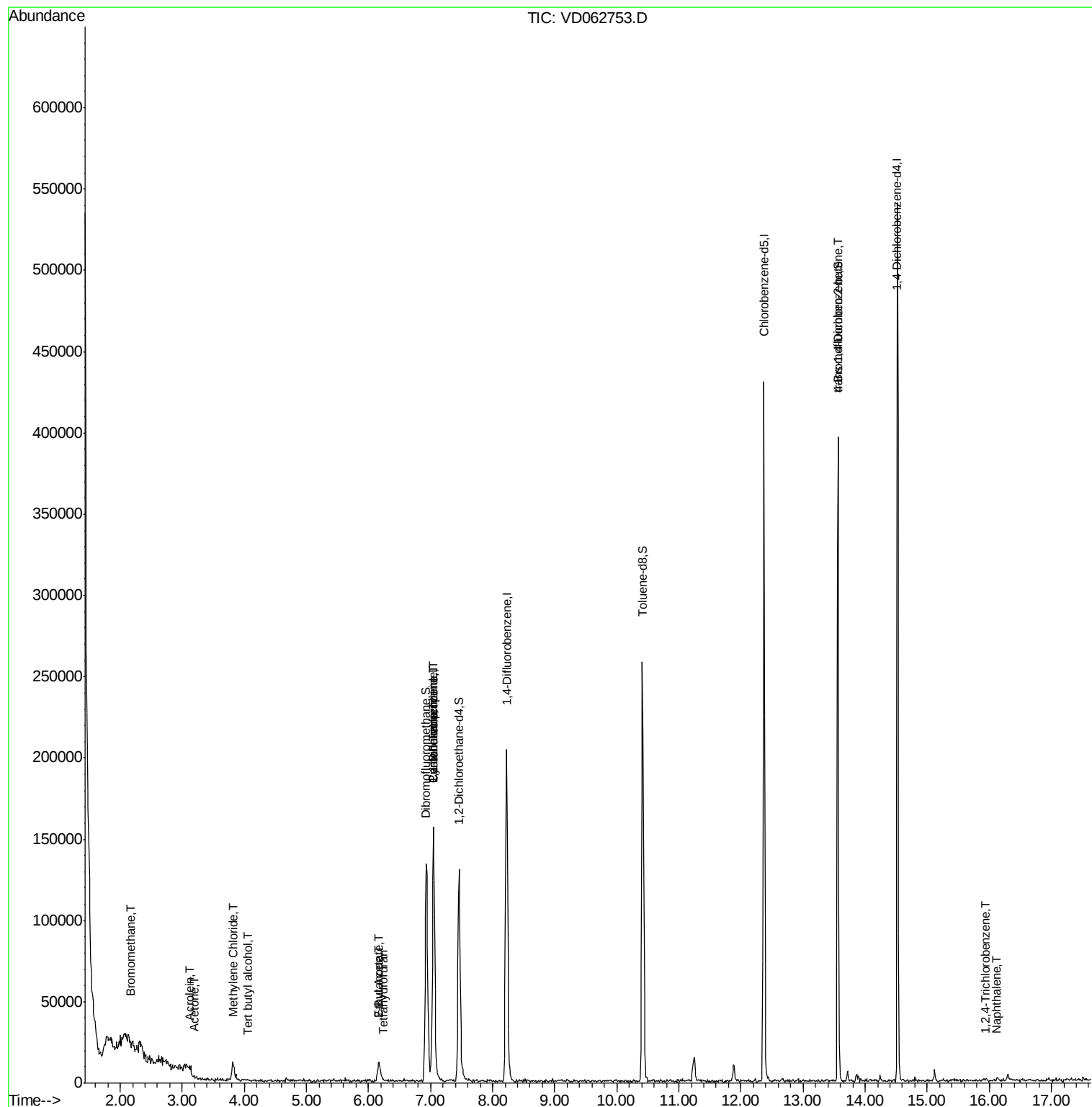
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.17	94	1515	1.998	ug/l #	11
11) Tert butyl alcohol	4.05	59	184	2.107	ug/l #	61
13) Acrolein	3.11	56	195	6.943	ug/l #	12
16) Acetone	3.21	43	1627	4.183	ug/l #	66
20) Methylene Chloride	3.82	84	8324	5.269	ug/l #	93
25) 2-Butanone	6.17	43	400	1.054	ug/l #	61
29) Tetrahydrofuran	6.25	42	177	1.036	ug/l #	33
31) Cyclohexane	7.04	56	2820	1.682	ug/l #	1
36) 1,1-Dichloropropene	7.04	75	12277	5.000	ug/l #	44
37) Ethyl Acetate	6.17	43	400	1.574	ug/l #	74
38) Carbon Tetrachloride	7.06	117	15719	4.050	ug/l #	14
81) trans-1,4-Dichloro-2-buten	13.55	75	52027	113.066	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.95	180	236	3.646	ug/l #	76
95) Naphthalene	16.13	128	2064	3.934	ug/l #	71

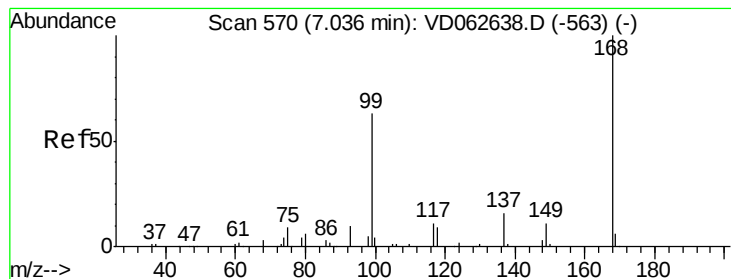
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Jun 08 00:02:21 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.01 min

Lab File: VD062753.D

Acq: 18 Jun 2019 16:52

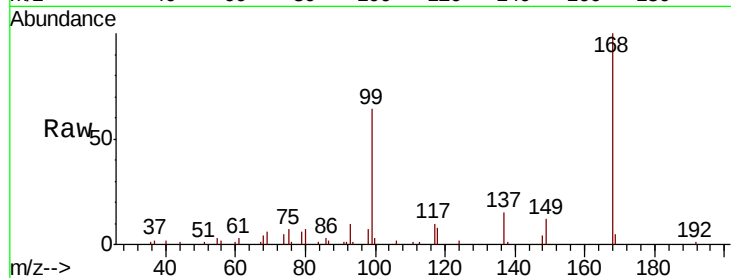
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 147198

Ion Ratio Lower Upper

168 100

99 63.6 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

60000

50000

40000

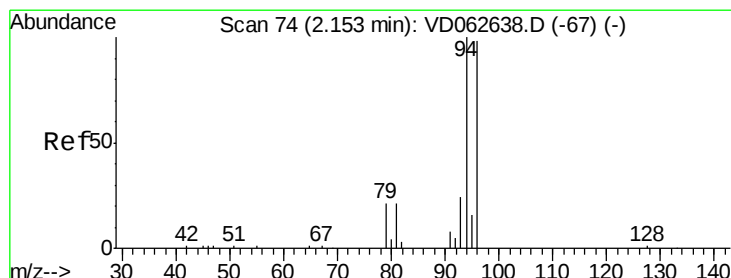
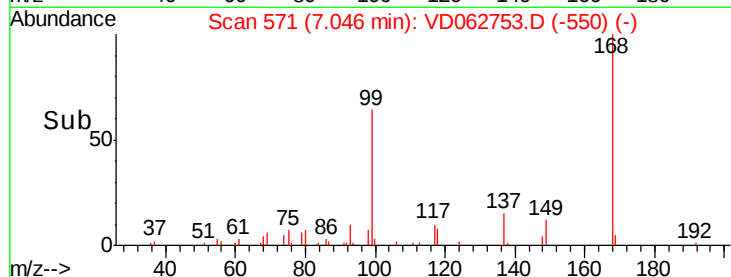
30000

20000

10000

0

Time--> 6.90 7.00 7.10 7.20



#5

Bromomethane

Concen: 1.998 ug/l

RT: 2.17 min Scan# 76

Delta R.T. 0.02 min

Lab File: VD062753.D

Acq: 18 Jun 2019 16:52

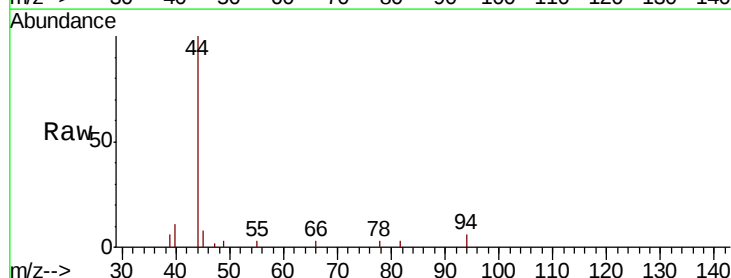
Tgt Ion: 94 Resp: 1515

Ion Ratio Lower Upper

94 100

96 0.0 78.1 117.1#

93 0.0 19.6 29.4#



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

1200

1000

800

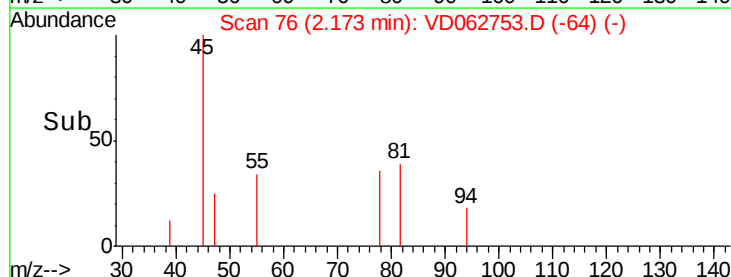
600

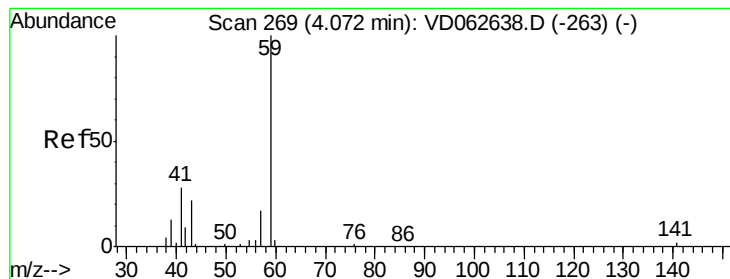
400

200

0

Time--> 2.16 2.18 2.20



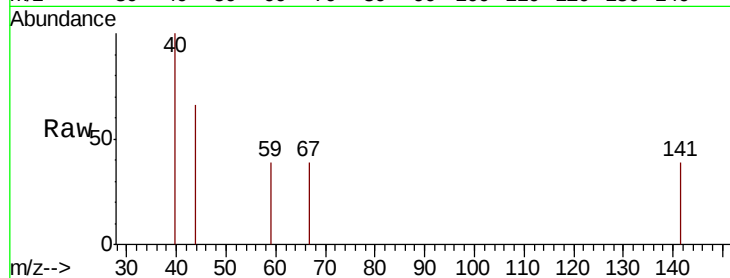


#11

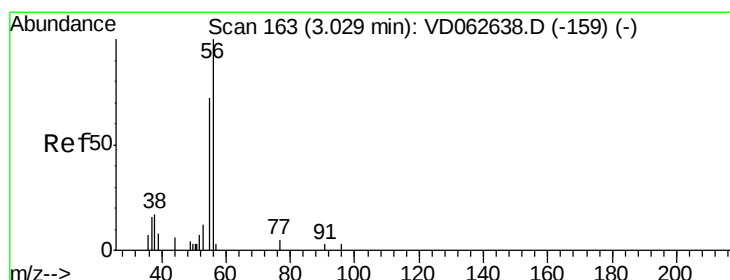
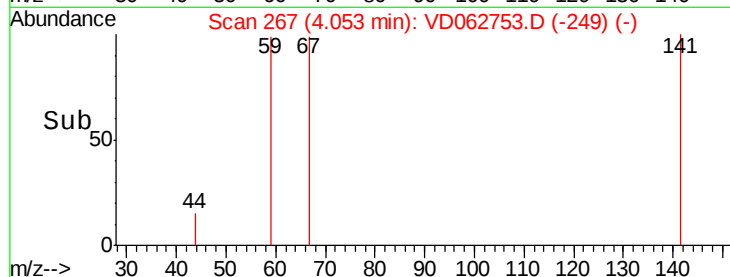
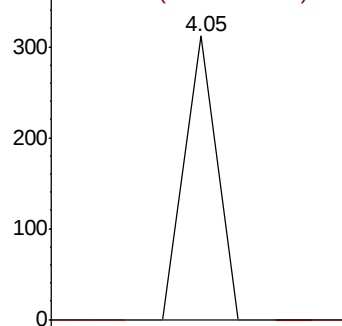
Tert butyl alcohol
 Concen: 2.107 ug/l
 RT: 4.05 min Scan# 267
 Delta R.T. -0.02 min
 Lab File: VD062753.D
 Acq: 18 Jun 2019 16:52

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 59 Resp: 184
 Ion Ratio Lower Upper
 59 100
 57 0.0 13.7 20.5#



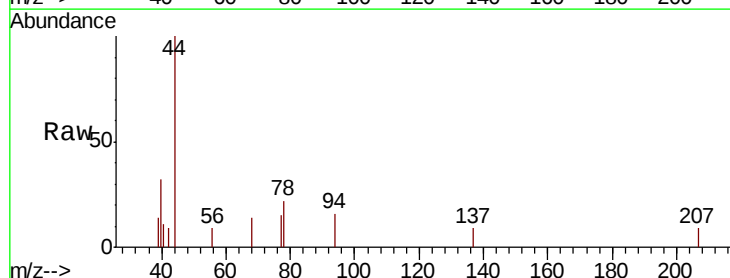
Abundance Ion 58.95 (58.65 to 59.65): VDC
 Ion 56.95 (56.65 to 57.65): VDC



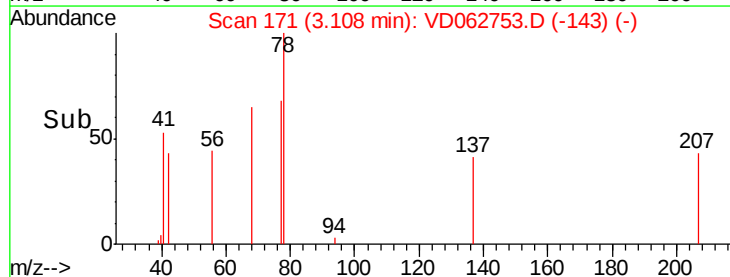
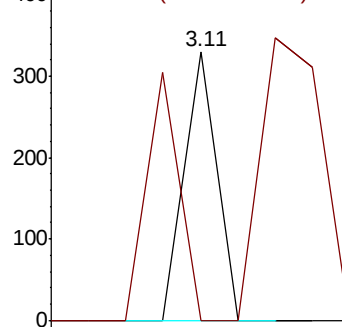
#13

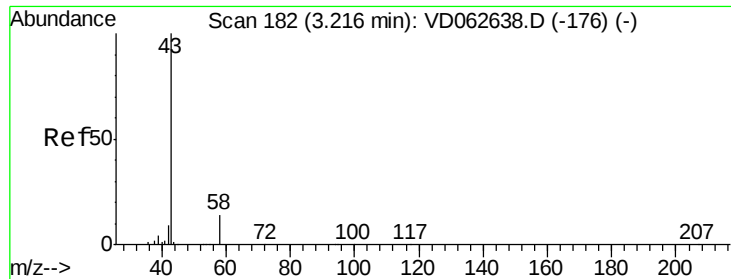
Acrolein
 Concen: 6.943 ug/l
 RT: 3.11 min Scan# 171
 Delta R.T. 0.08 min
 Lab File: VD062753.D
 Acq: 18 Jun 2019 16:52

Tgt Ion: 56 Resp: 195
 Ion Ratio Lower Upper
 56 100
 55 0.0 59.4 89.0#



Abundance Ion 55.95 (55.65 to 56.65): VDC
 Ion 55.00 (54.70 to 55.70): VDC





#16

Acetone

Concen: 4.183 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.01 min

Lab File: VD062753.D

Acq: 18 Jun 2019 16:52

Instrument :

MSVOA_D

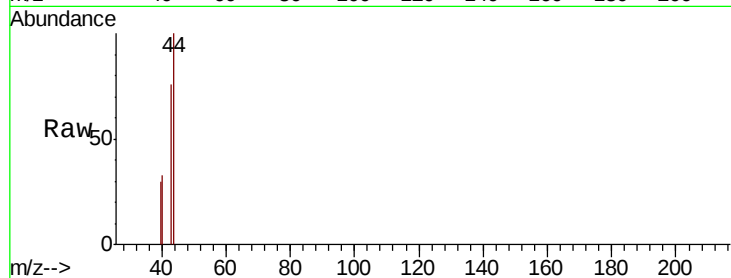
ClientSampleId :

Tot Ion: 43 Resp: 1627

Ion Ratio Lower Upper

43 100

58 0.0 10.8 16.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.21

1000

800

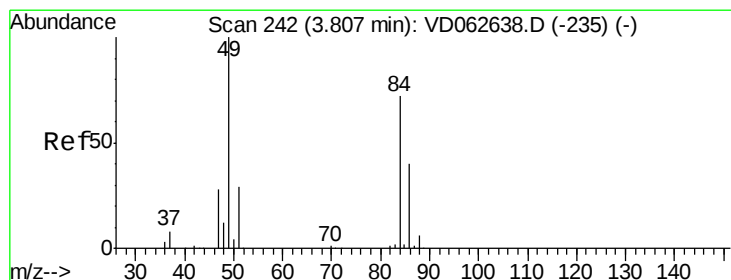
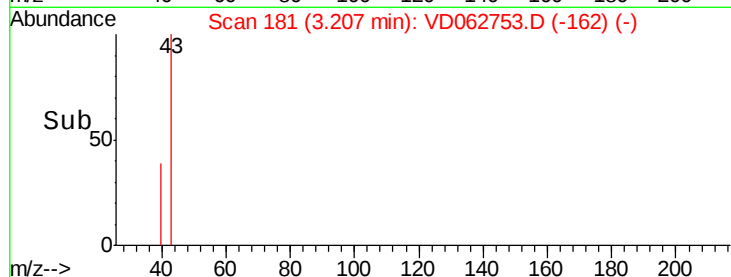
600

400

200

0

Time-->



#20

Methylene Chloride

Concen: 5.269 ug/l

RT: 3.82 min Scan# 243

Delta R.T. 0.01 min

Lab File: VD062753.D

Acq: 18 Jun 2019 16:52

Tgt Ion: 84 Resp: 8324

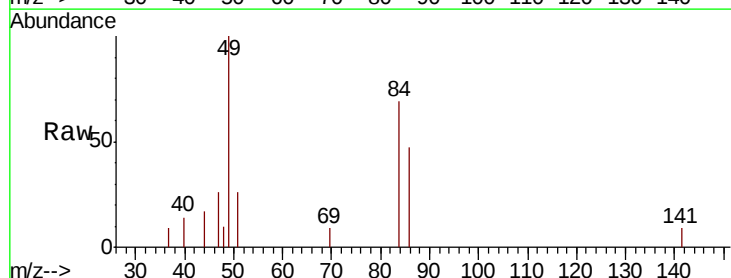
Ion Ratio Lower Upper

84 100

49 144.2 111.2 166.8

51 37.4 31.9 47.9

86 68.1 44.7 67.1#



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

6000

5000

4000

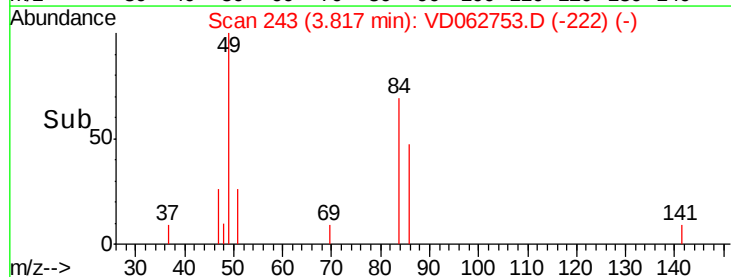
3000

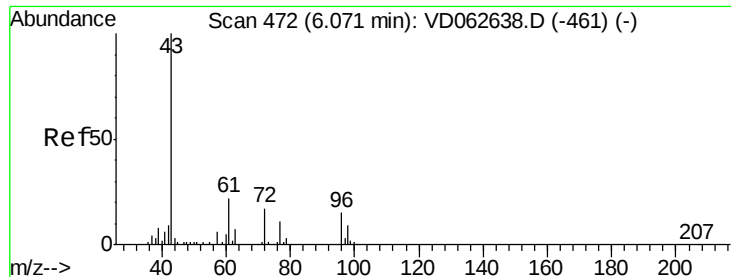
2000

1000

0

Time-->





#25

2-Butanone

Concen: 1.054 ug/l

RT: 6.17 min Scan# 482

Delta R.T. 0.10 min

Lab File: VD062753.D

Acq: 18 Jun 2019 16:52

Instrument :

MSVOA_D

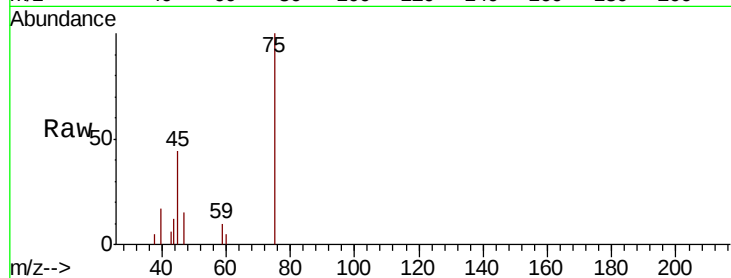
ClientSampled :

Tot Ion: 43 Resp: 400

Ion Ratio Lower Upper

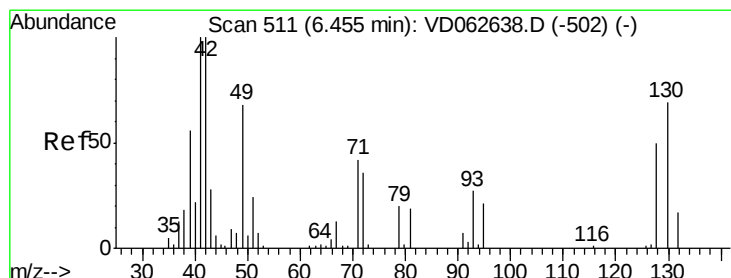
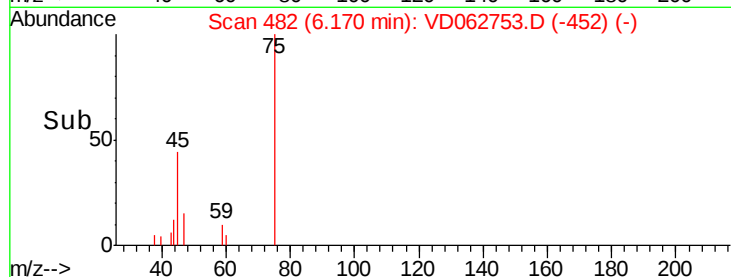
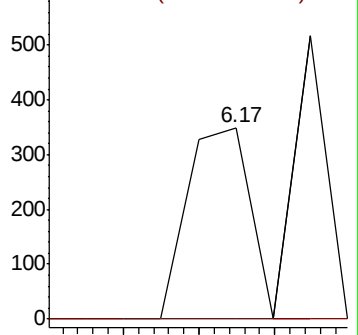
43 100

72 0.0 13.5 20.3#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 1.036 ug/l

RT: 6.25 min Scan# 490

Delta R.T. -0.21 min

Lab File: VD062753.D

Acq: 18 Jun 2019 16:52

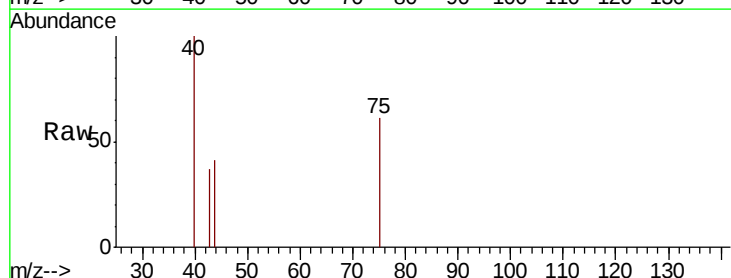
Tgt Ion: 42 Resp: 177

Ion Ratio Lower Upper

42 100

72 0.0 33.8 50.6#

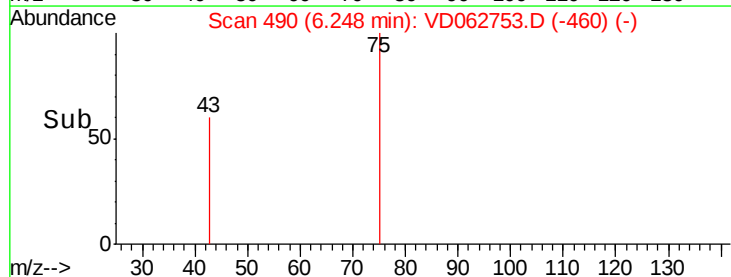
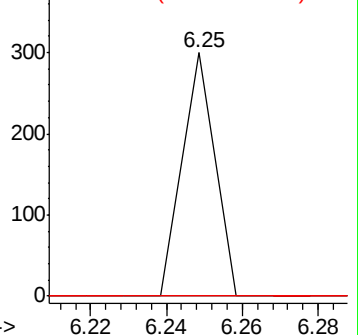
71 0.0 34.2 51.4#

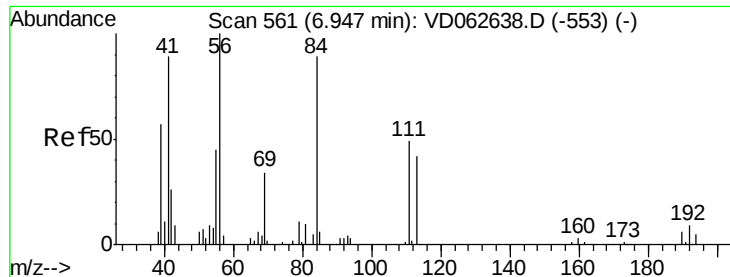


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

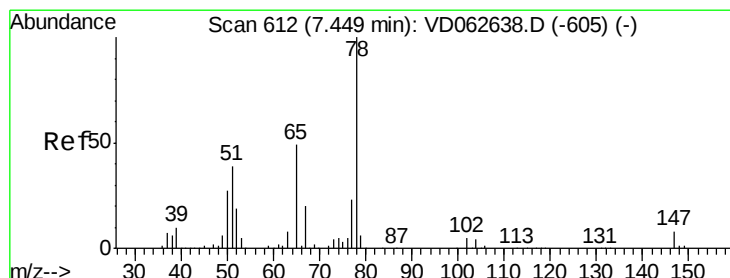
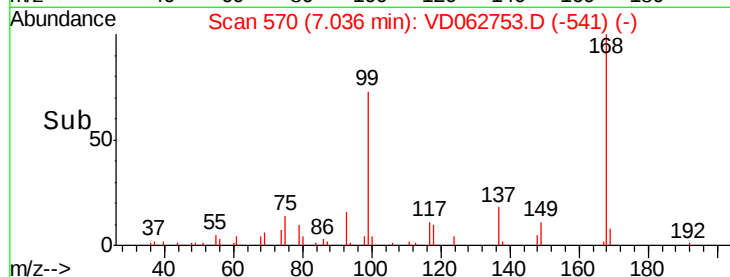
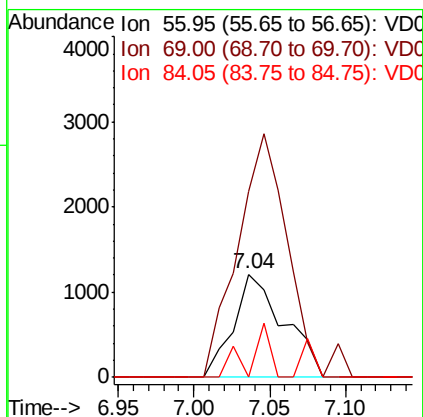
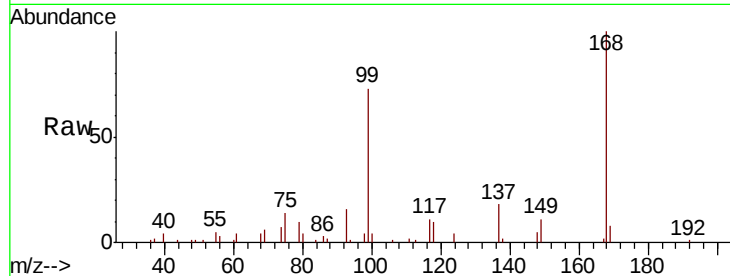




#31
Cyclohexane
Concen: 1.682 ug/l
RT: 7.04 min Scan# 570
Delta R.T. 0.09 min
Lab File: VD062753.D
Acq: 18 Jun 2019 16:52

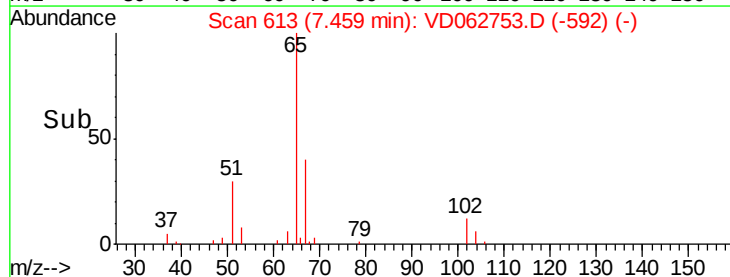
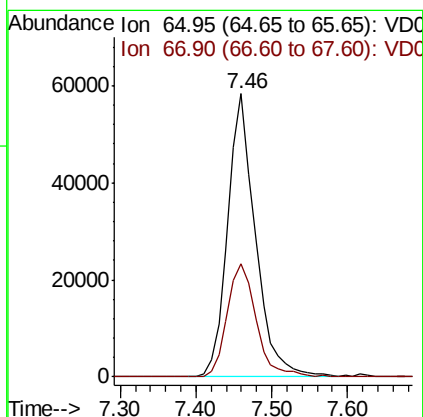
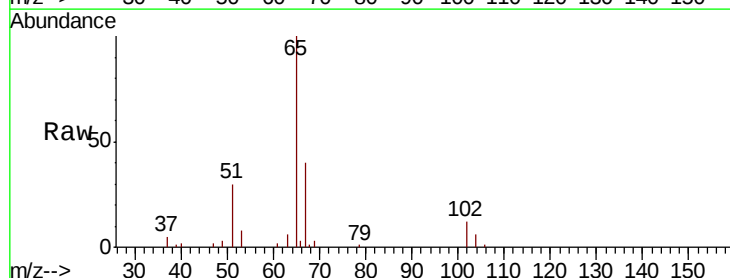
Instrument :
MSVOA_D
ClientSampleID :

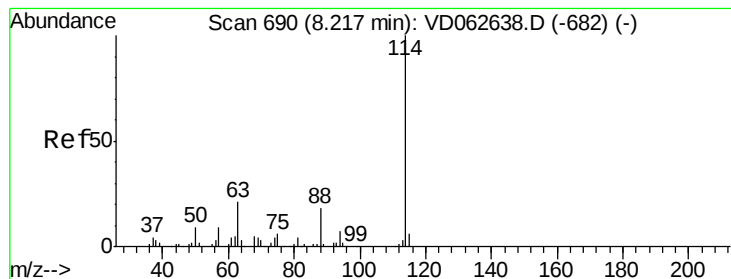
Tot Ion: 56 Resp: 2820
Ion Ratio Lower Upper
56 100
69 181.4 26.8 40.2#
84 0.0 73.9 110.9#



#33
1,2-Dichloroethane-d4
Concen: 69.592 ug/l
RT: 7.46 min Scan# 613
Delta R.T. 0.01 min
Lab File: VD062753.D
Acq: 18 Jun 2019 16:52

Tgt Ion: 65 Resp: 147817
Ion Ratio Lower Upper
65 100
67 40.2 0.0 81.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.23 min Scan# 691

Delta R.T. 0.01 min

Lab File: VD062753.D

Acq: 18 Jun 2019 16:52

Instrument :

MSVOA_D

ClientSampled :

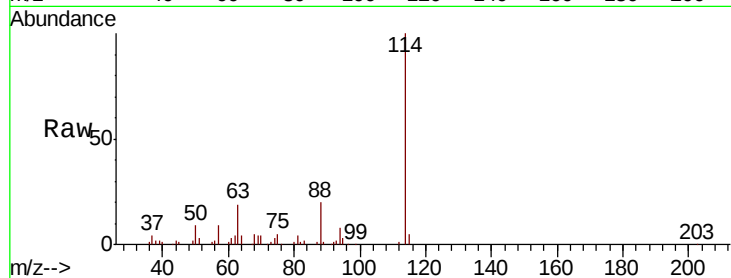
Tot Ion:114 Resp: 214537

Ion Ratio Lower Upper

114 100

63 18.9 0.0 42.4

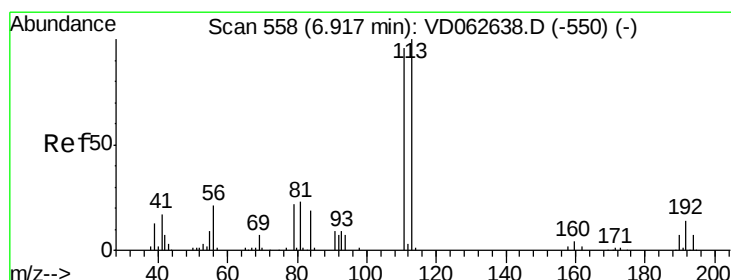
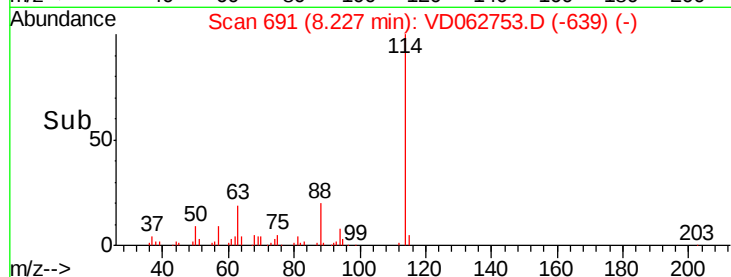
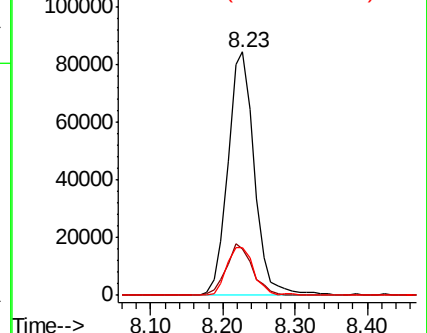
88 19.8 0.0 36.8



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: 51.717 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.01 min

Lab File: VD062753.D

Acq: 18 Jun 2019 16:52

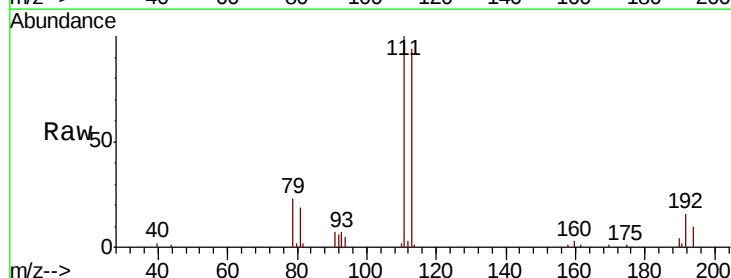
Tgt Ion:113 Resp: 117014

Ion Ratio Lower Upper

113 100

111 106.8 76.4 114.6

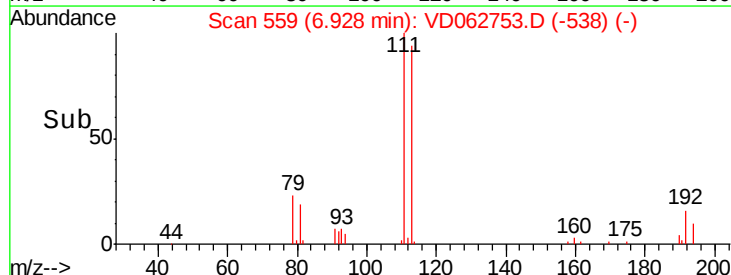
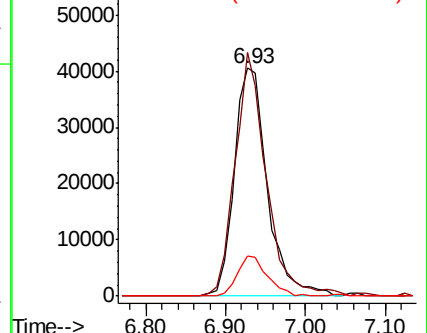
192 17.4 11.4 17.0#

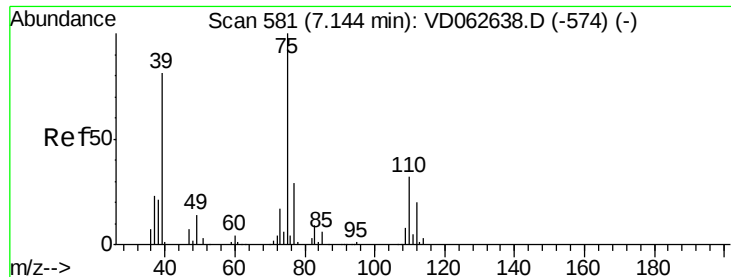


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 5.000 ug/l

RT: 7.04 min Scan# 570

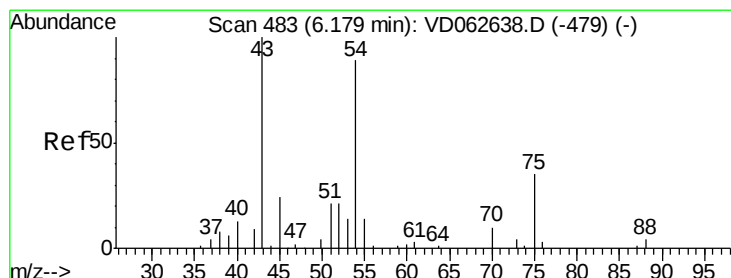
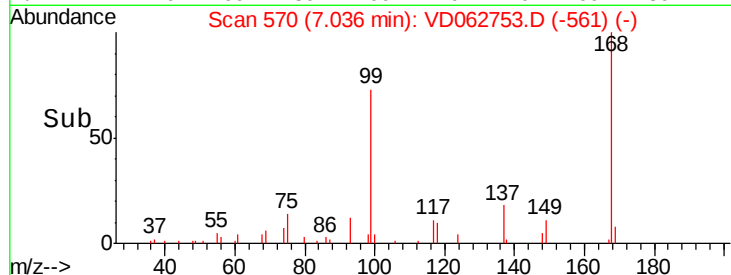
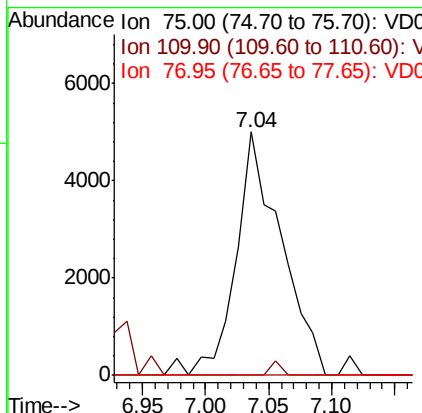
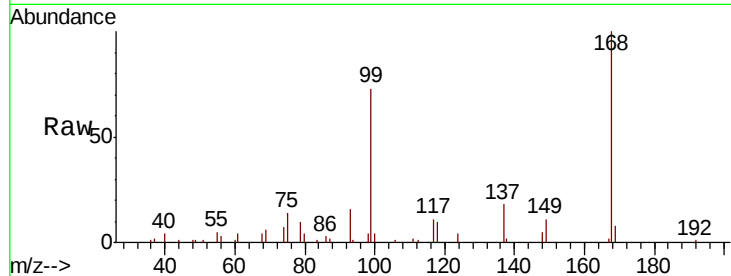
Delta R.T. -0.11 min

Lab File: VD062753.D

Acq: 18 Jun 2019 16:52

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:	75	Resp:	12277
Ion	Ratio	Lower	Upper
75	100		
110	0.0	15.9	47.7#
77	0.0	23.3	34.9#



#37

Ethyl Acetate

Concen: 1.574 ug/l

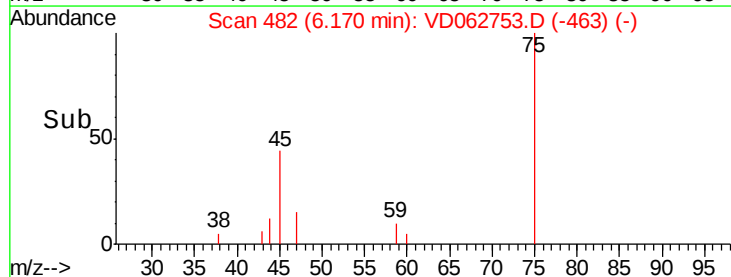
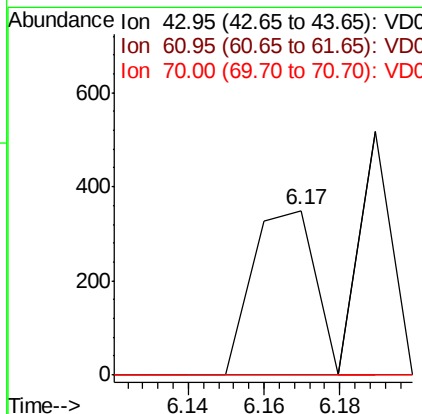
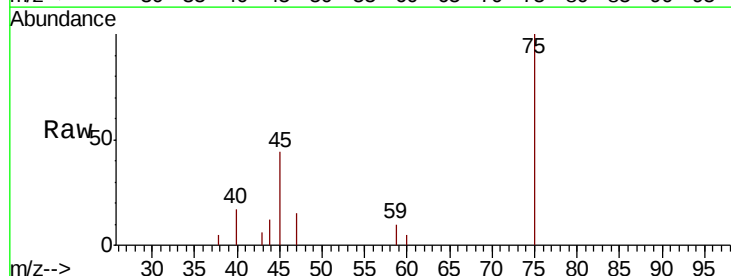
RT: 6.17 min Scan# 482

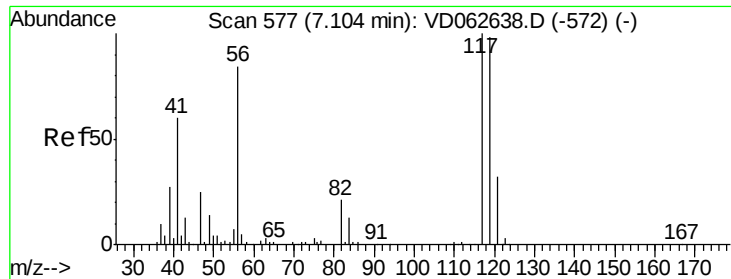
Delta R.T. -0.01 min

Lab File: VD062753.D

Acq: 18 Jun 2019 16:52

Tgt Ion:	43	Resp:	400
Ion	Ratio	Lower	Upper
43	100		
61	0.0	8.7	13.1#
70	0.0	6.5	9.7#





#38

Carbon Tetrachloride

Concen: 4.050 ug/l

RT: 7.06 min Scan# 572

Delta R.T. -0.05 min

Lab File: VD062753.D

Acq: 18 Jun 2019 16:52

Instrument :

MSVOA_D

ClientSampleId :

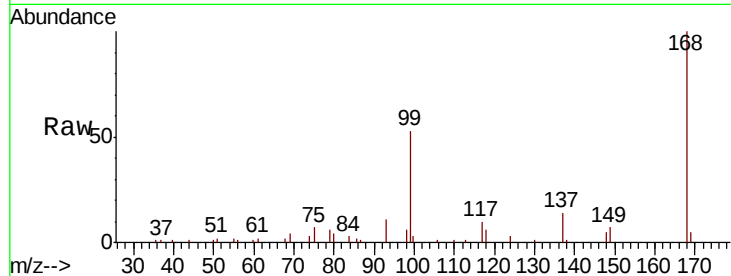
Tot Ion:117 Resp: 15719

Ion Ratio Lower Upper

117 100

119 0.0 73.5 110.3#

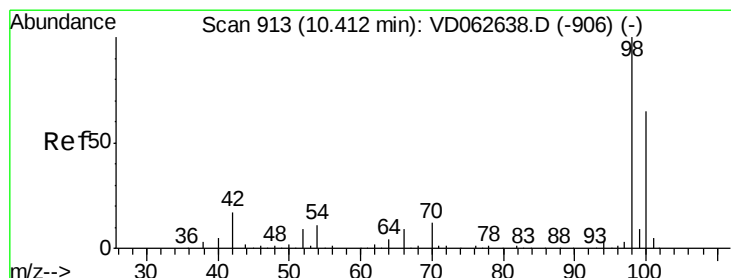
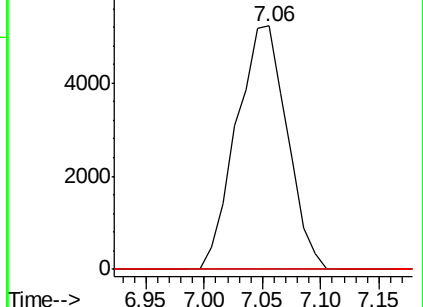
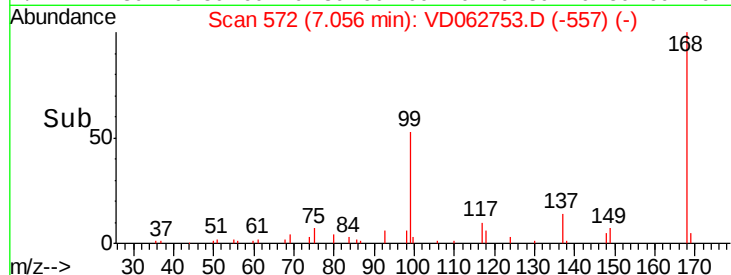
121 0.0 24.2 36.4#



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: 40.390 ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.00 min

Lab File: VD062753.D

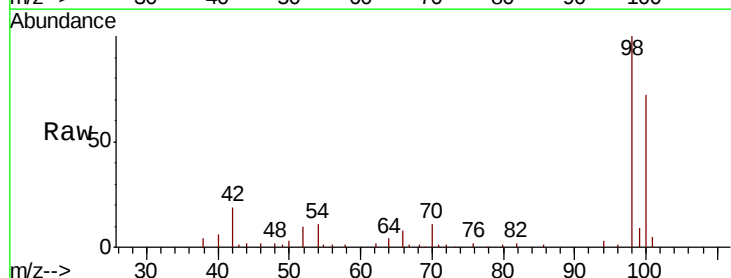
Acq: 18 Jun 2019 16:52

Tgt Ion: 98 Resp: 192243

Ion Ratio Lower Upper

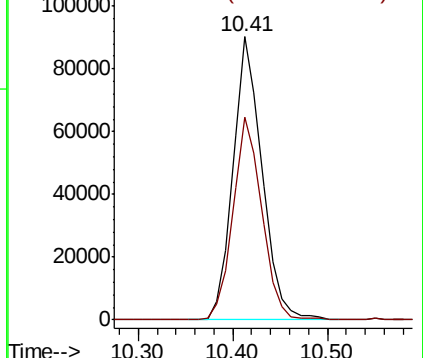
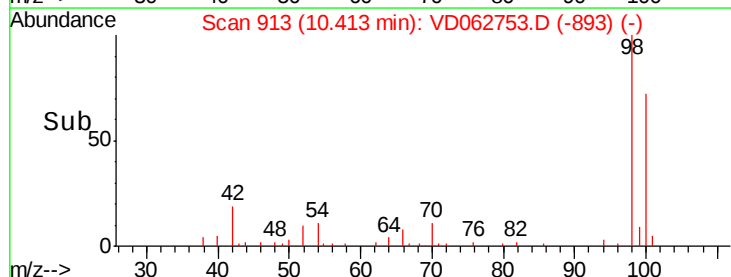
98 100

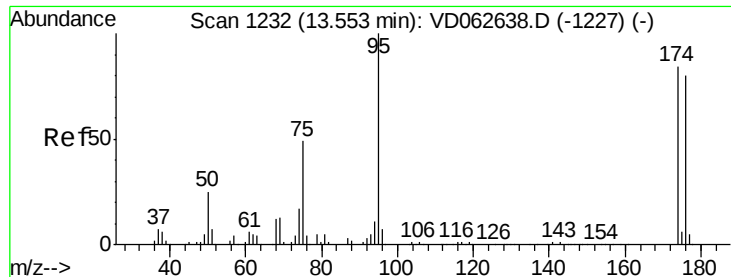
100 71.8 52.1 78.1



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#62

4-Bromofluorobenzene

Concen: 48.611 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD062753.D

Acq: 18 Jun 2019 16:52

Instrument :

MSVOA_D

ClientSampleId :

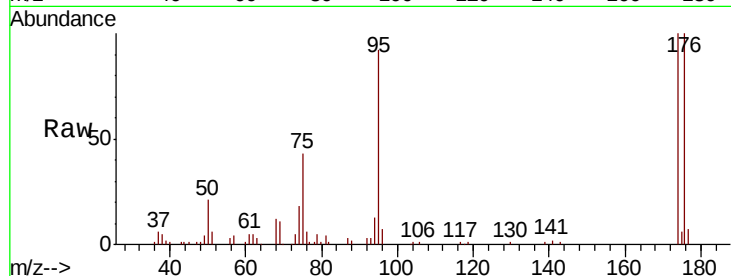
Tot Ion: 95 Resp: 107944

Ion Ratio Lower Upper

95 100

174 108.4 0.0 167.0

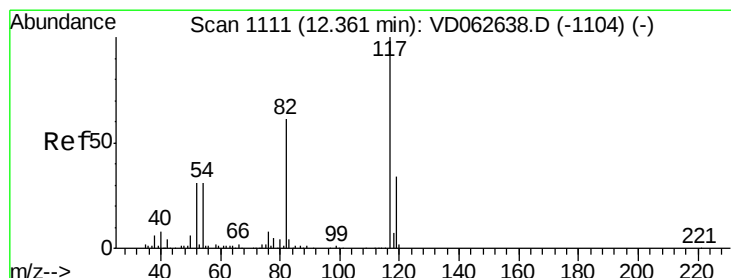
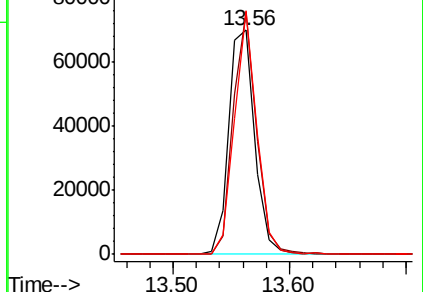
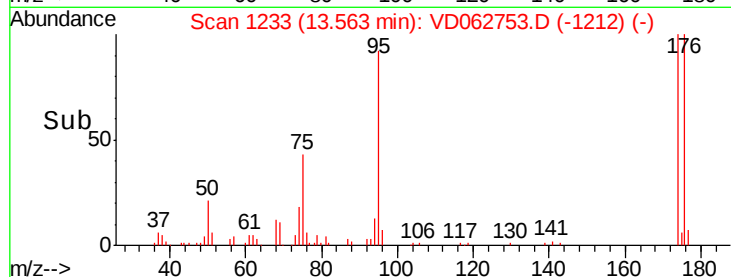
176 108.7 0.0 159.2



Abundance Ion 95.00 (94.70 to 95.70): V

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: 12.37 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VD062753.D

Acq: 18 Jun 2019 16:52

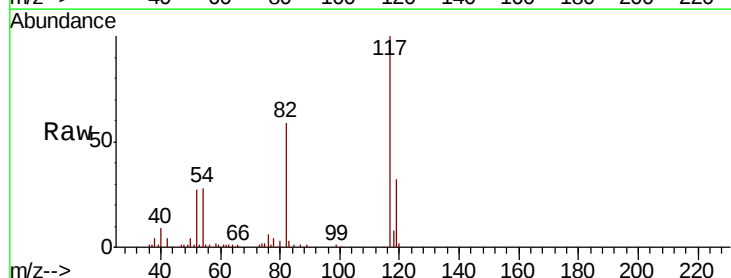
Tgt Ion: 117 Resp: 206403

Ion Ratio Lower Upper

117 100

82 58.6 48.7 73.1

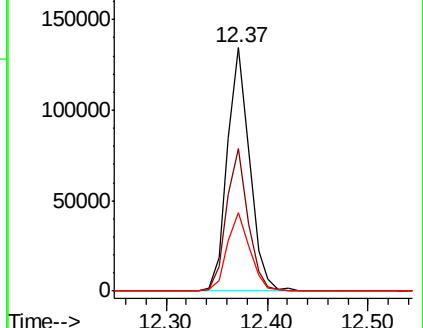
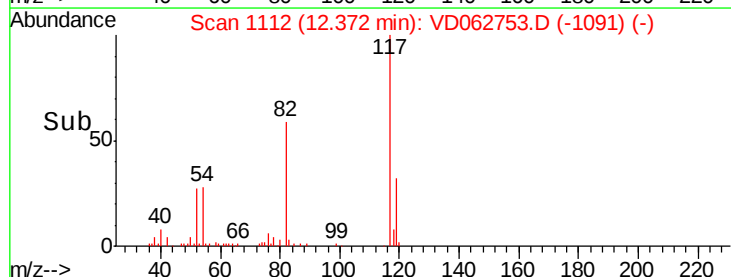
119 32.0 27.0 40.6

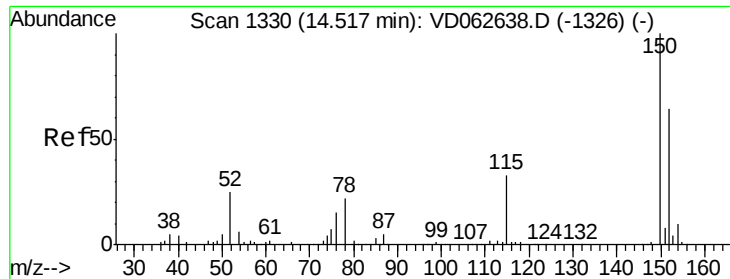


Abundance Ion 116.95 (116.65 to 117.65): V

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: 14.52 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VD062753.D

Acq: 18 Jun 2019 16:52

Instrument :

MSVOA_D

ClientSampleId :

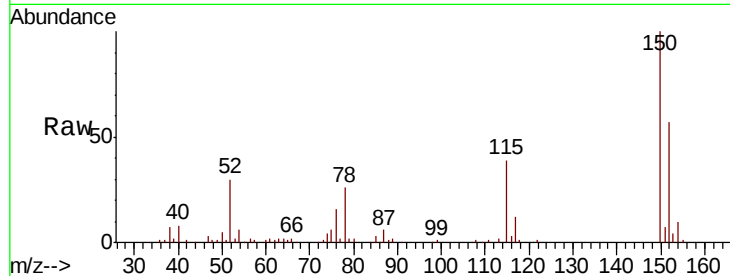
Tot Ion:152 Resp: 109286

Ion Ratio Lower Upper

152 100

115 68.8 30.1 90.5

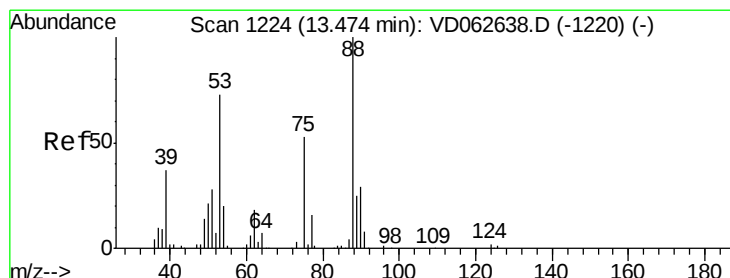
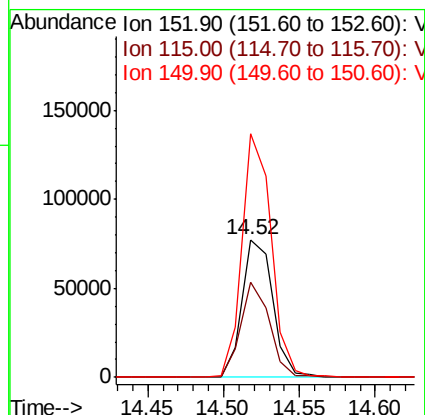
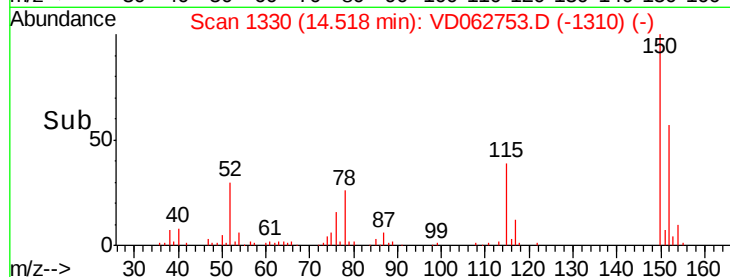
150 176.6 0.0 314.0



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



#81

trans-1,4-Dichloro-2-butene

Concen: 113.066 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD062753.D

Acq: 18 Jun 2019 16:52

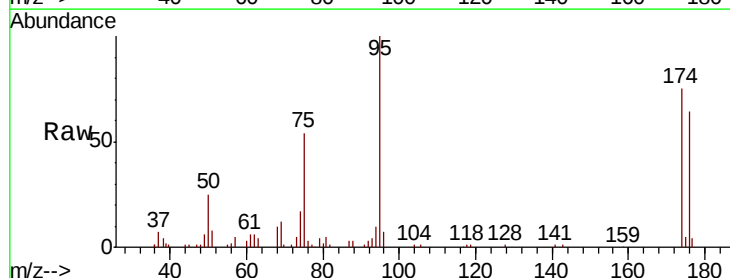
Tgt Ion: 75 Resp: 52027

Ion Ratio Lower Upper

75 100

53 0.0 109.4 164.2#

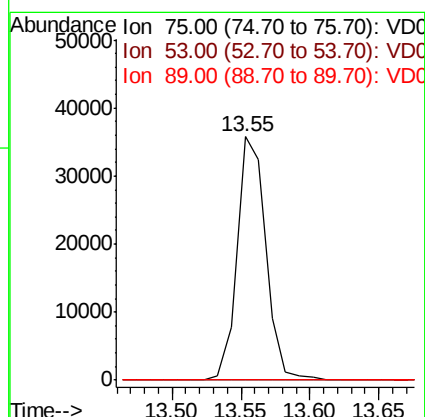
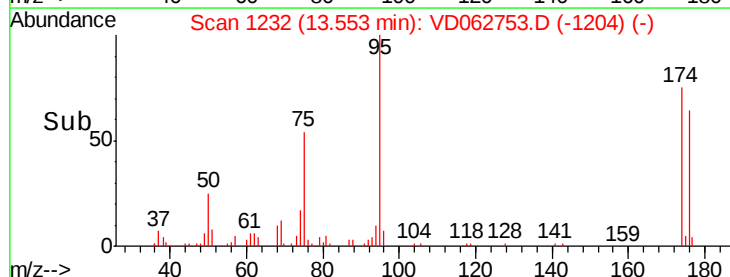
89 0.0 37.0 55.6#

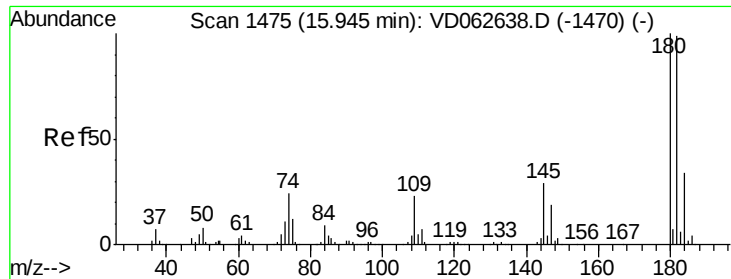


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

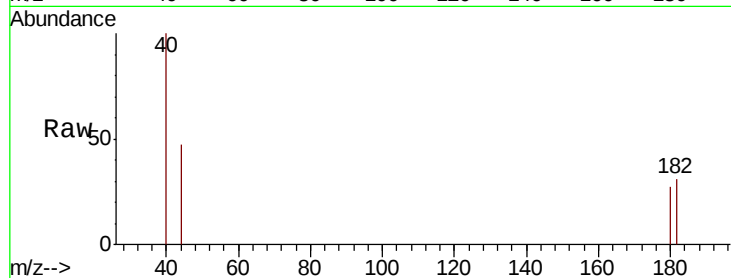




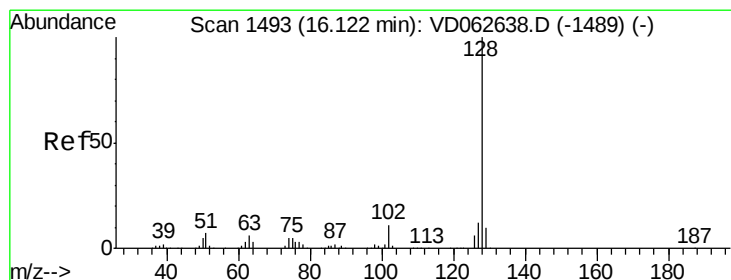
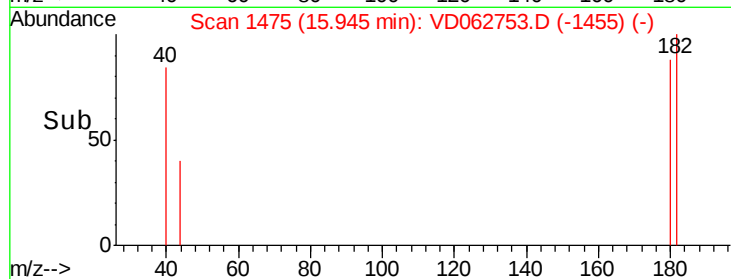
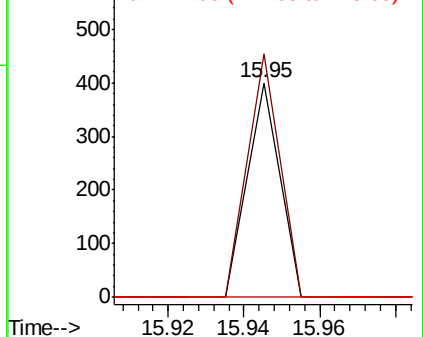
#93
 1,2,4-Trichlorobenzene
 Concen: 3.646 ug/l
 RT: 15.95 min Scan# 1475
 Delta R.T. 0.00 min
 Lab File: VD062753.D
 Acq: 18 Jun 2019 16:52

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:180 Resp: 236
 Ion Ratio Lower Upper
 180 100
 182 113.5 49.4 148.2
 145 0.0 14.5 43.6#

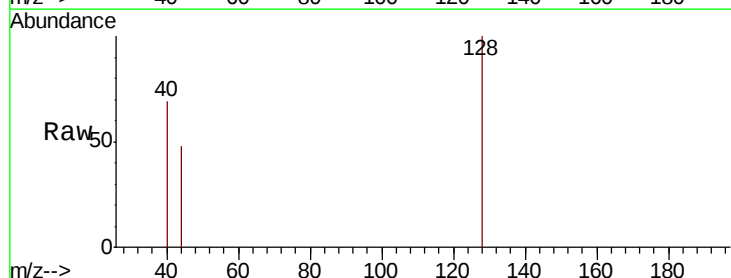


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V



#95
 Naphthalene
 Concen: 3.934 ug/l
 RT: 16.13 min Scan# 1494
 Delta R.T. 0.01 min
 Lab File: VD062753.D
 Acq: 18 Jun 2019 16:52

Tgt Ion:128 Resp: 2064
 Ion Ratio Lower Upper
 128 100
 127 0.0 9.7 14.5#
 129 0.0 8.1 12.1#



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

