

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061819\
 Data File : VD062743.D
 Acq On : 18 Jun 2019 12:10
 Operator : VA/AP
 Sample : VD0618SBL01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 19 05:23:26 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	661895	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.22	114	869458	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	743063	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	394617	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	512338	53.64	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	107.28%	
35) Dibromofluoromethane	6.92	113	518840	56.58	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	113.16%	
50) Toluene-d8	10.41	98	1075998	55.78	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	111.56%	
62) 4-Bromofluorobenzene	13.56	95	498338	55.38	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	110.76%	

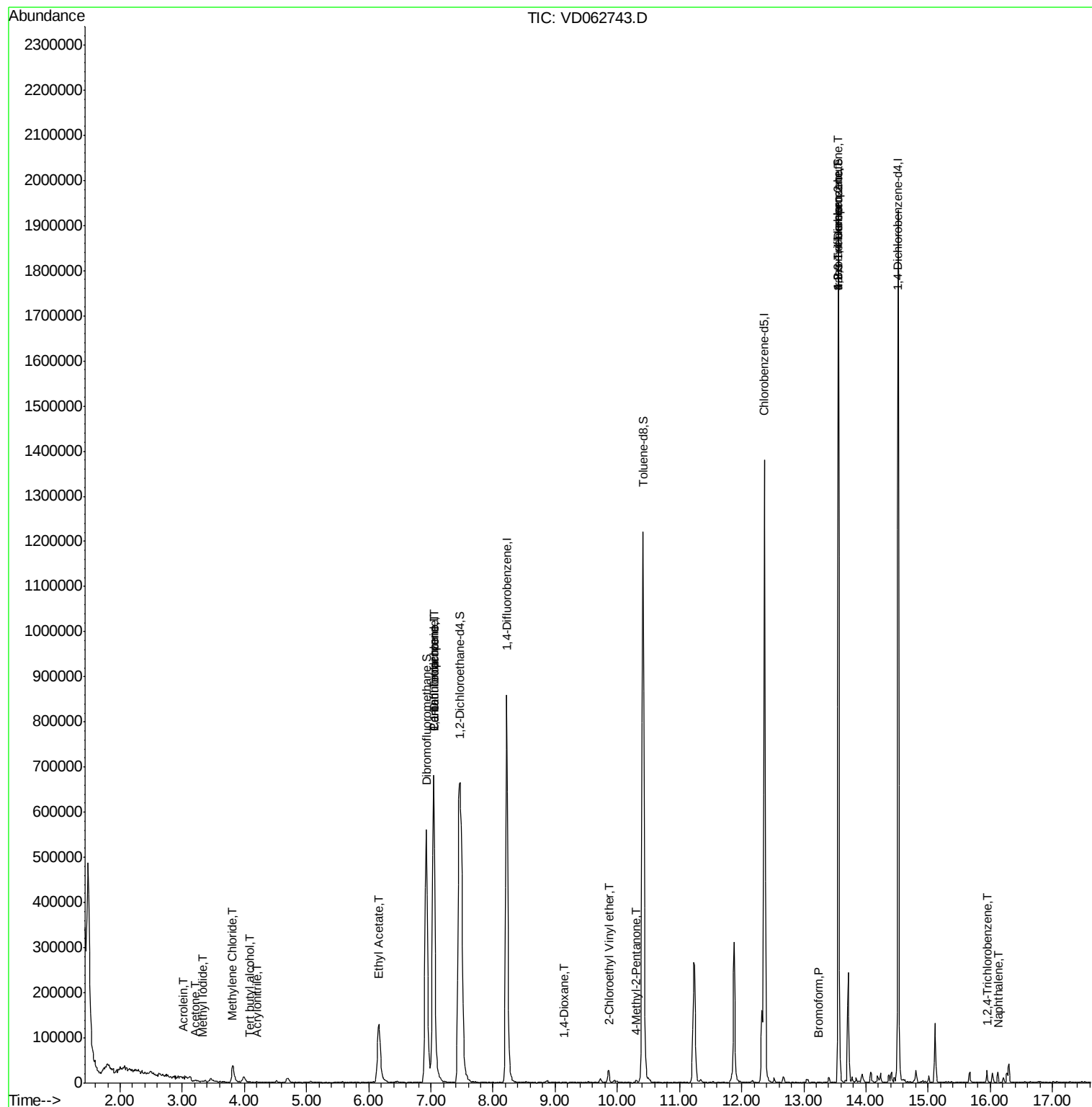
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	2604	Below Cal		94
10) Methyl Iodide	3.34	142	3575	4.287	ug/l #	56
11) Tert butyl alcohol	4.07	59	1311	3.339	ug/l #	61
13) Acrolein	3.02	56	236	1.869	ug/l #	12
15) Acrylonitrile	4.20	53	1211	1.357	ug/l #	12
16) Acetone	3.21	43	5551	3.174	ug/l #	92
20) Methylene Chloride	3.82	84	21945	2.905	ug/l	87
36) 1,1-Dichloropropene	7.04	75	56542	5.682	ug/l #	50
37) Ethyl Acetate	6.17	43	11977	3.956	ug/l #	1
38) Carbon Tetrachloride	7.05	117	72148	4.587	ug/l #	16
49) 1,4-Dioxane	9.13	88	233	53.808	ug/l #	21
51) 4-Methyl-2-Pentanone	10.31	43	4702	1.280	ug/l #	88
58) 2-Chloroethyl Vinyl ether	9.86	63	12961	5.413	ug/l #	85
71) Bromoform	13.24	173	246	2.870	ug/l #	38
76) 1,2,3-Trichloropropane	13.56	75	179658	33.577	ug/l #	45
81) trans-1,4-Dichloro-2-buten	13.56	75	241833	144.430	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.95	180	7117	4.219	ug/l	84
95) Naphthalene	16.12	128	12579	4.267	ug/l #	93

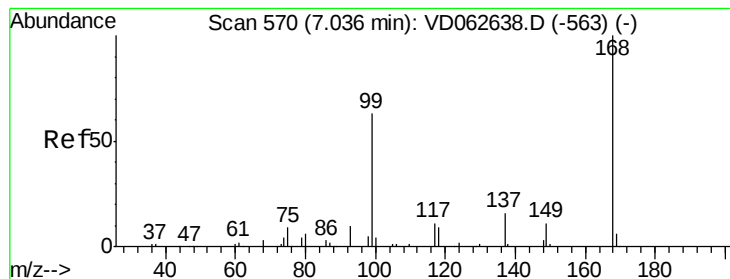
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 19 05:23:26 2019
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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: VD062743.D

Acq: 18 Jun 2019 12:10

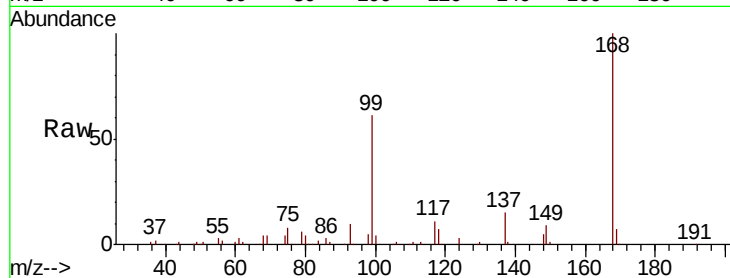
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 661895

Ion Ratio Lower Upper

168 100

99 60.7 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

250000

200000

150000

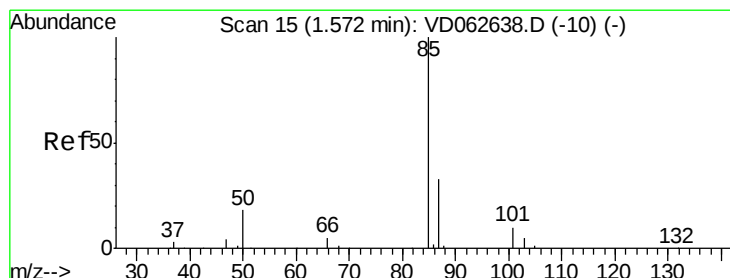
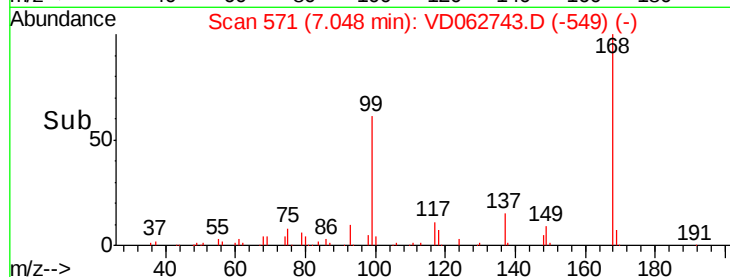
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.57 min Scan# 15

Delta R.T. 0.00 min

Lab File: VD062743.D

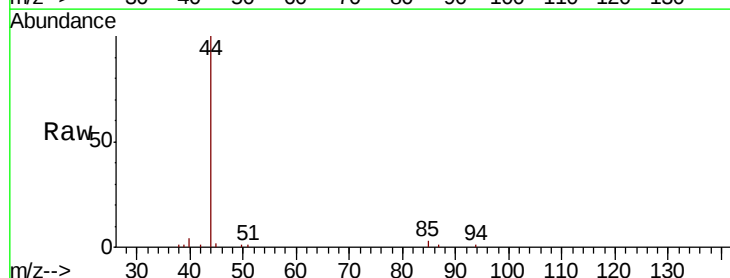
Acq: 18 Jun 2019 12:10

Tgt Ion: 85 Resp: 2604

Ion Ratio Lower Upper

85 100

87 36.7 16.6 49.7



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.57

1500

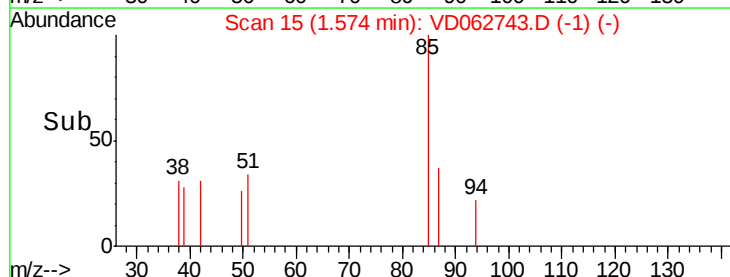
1000

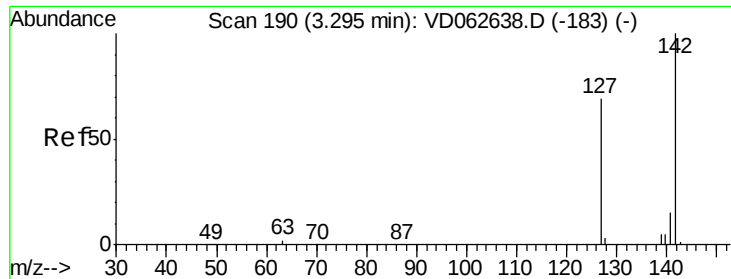
500

0

1.55 1.60 1.65

Time-->

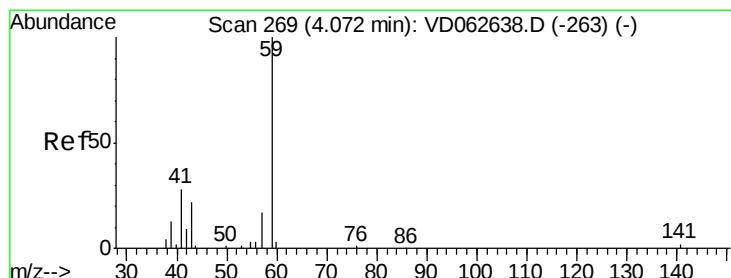
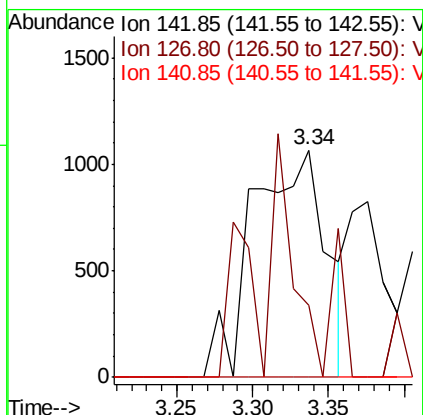
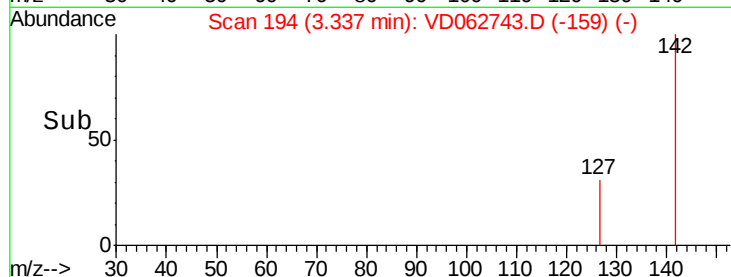
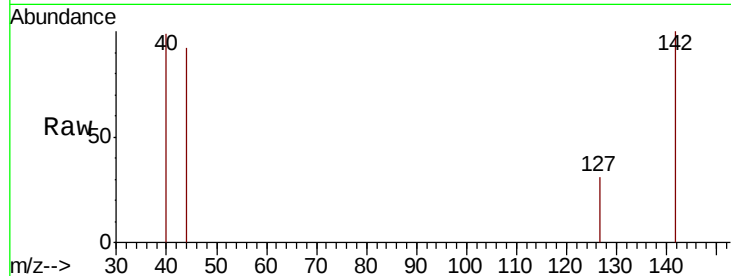




#10
Methyl Iodide
Concen: 4.287 ug/l
RT: 3.34 min Scan# 194
Delta R.T. 0.04 min
Lab File: VD062743.D
Acq: 18 Jun 2019 12:10

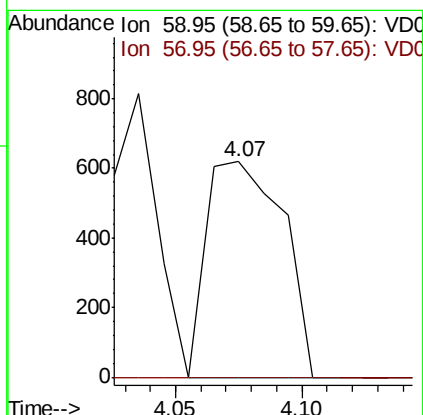
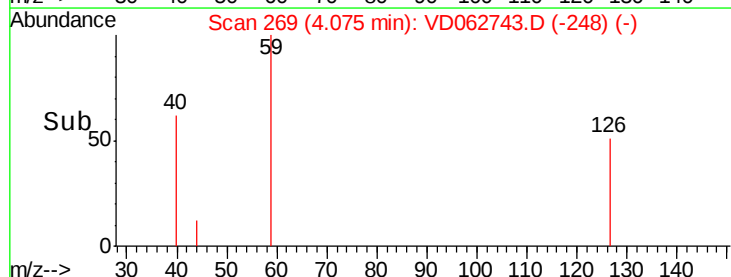
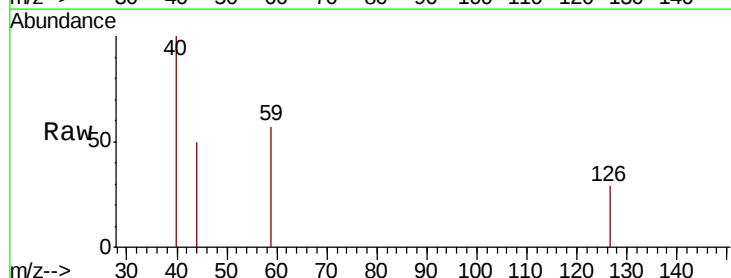
Instrument :
MSVOA_D
ClientSampled :

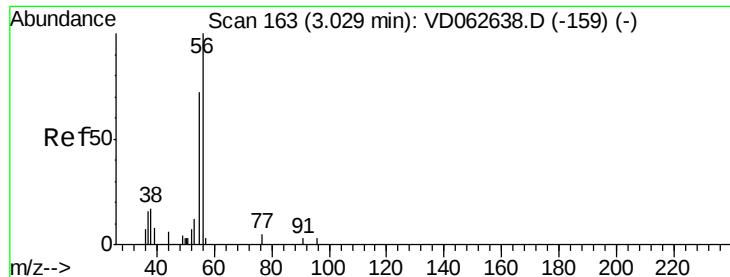
Tot Ion:142 Resp: 3575
Ion Ratio Lower Upper
142 100
127 31.5 55.2 82.8#
141 0.0 12.1 18.1#



#11
Tert butyl alcohol
Concen: 3.339 ug/l
RT: 4.07 min Scan# 269
Delta R.T. 0.00 min
Lab File: VD062743.D
Acq: 18 Jun 2019 12:10

Tgt Ion: 59 Resp: 1311
Ion Ratio Lower Upper
59 100
57 0.0 13.7 20.5#





#13

Acrolein

Concen: 1.869 ug/l

RT: 3.02 min Scan# 162

Delta R.T. -0.01 min

Lab File: VD062743.D

Acq: 18 Jun 2019 12:10

Instrument :

MSVOA_D

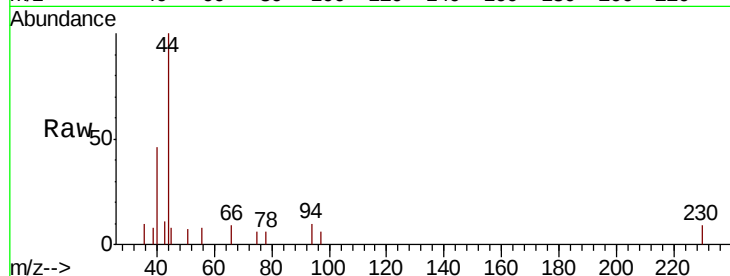
ClientSampleId :

Tot Ion: 56 Resp: 236

Ion Ratio Lower Upper

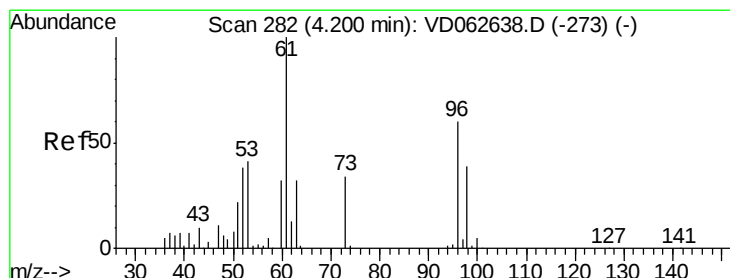
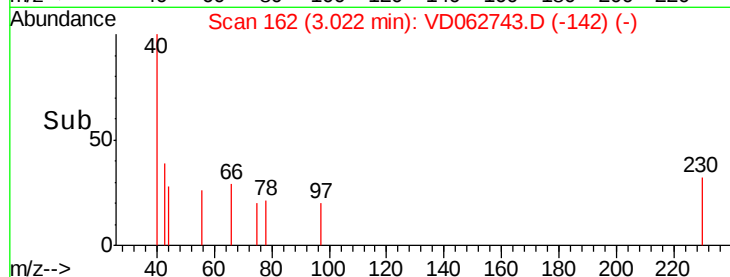
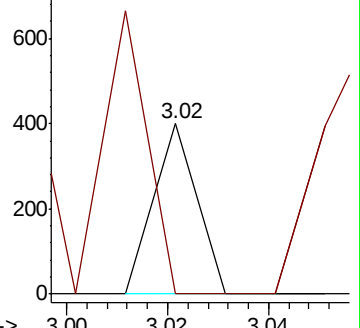
56 100

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



#15

Acrylonitrile

Concen: 1.357 ug/l

RT: 4.20 min Scan# 282

Delta R.T. 0.00 min

Lab File: VD062743.D

Acq: 18 Jun 2019 12:10

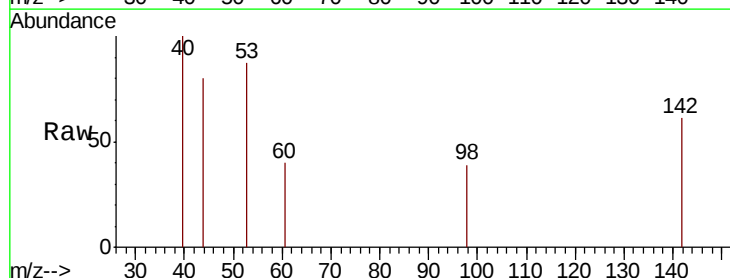
Tgt Ion: 53 Resp: 1211

Ion Ratio Lower Upper

53 100

52 0.0 73.6 110.4#

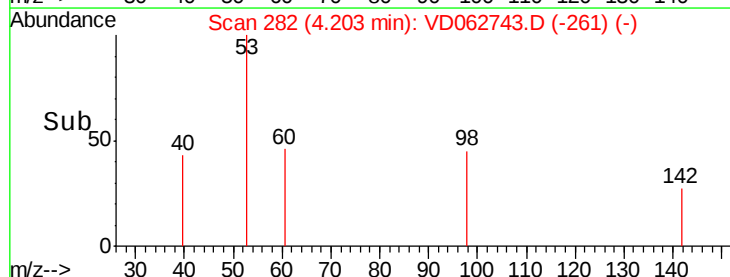
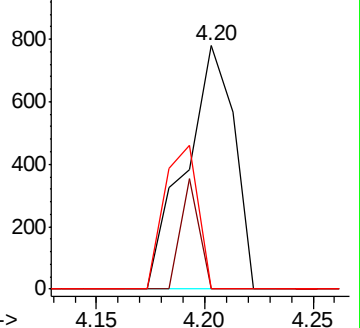
51 0.0 42.0 63.0#

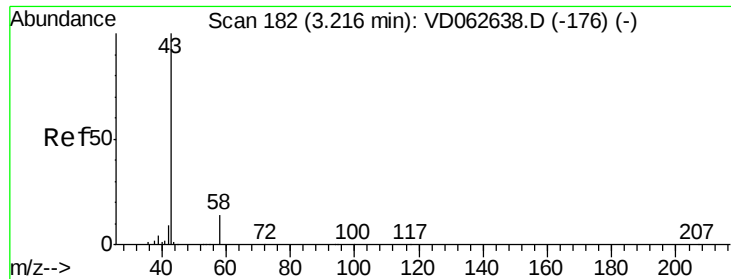


Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC





#16

Acetone

Concen: 3.174 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.01 min

Lab File: VD062743.D

Acq: 18 Jun 2019 12:10

Instrument :

MSVOA_D

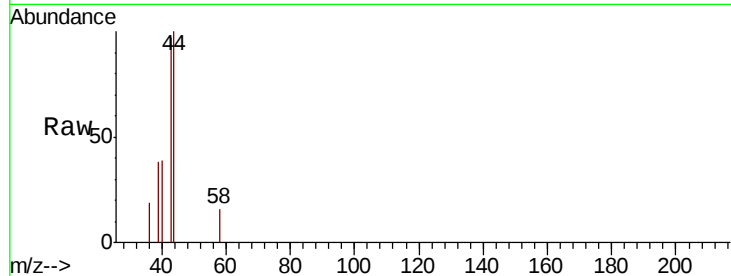
ClientSampleId :

Tot Ion: 43 Resp: 5551

Ion Ratio Lower Upper

43 100

58 16.8 10.8 16.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

2000

1500

1000

500

0

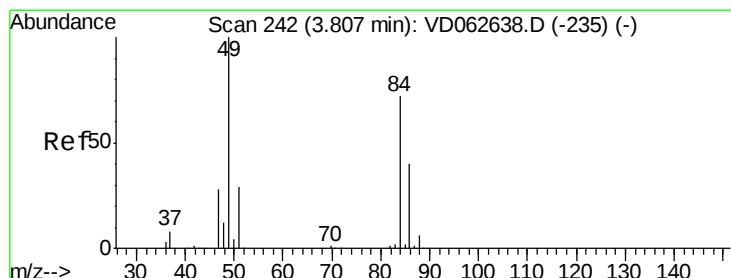
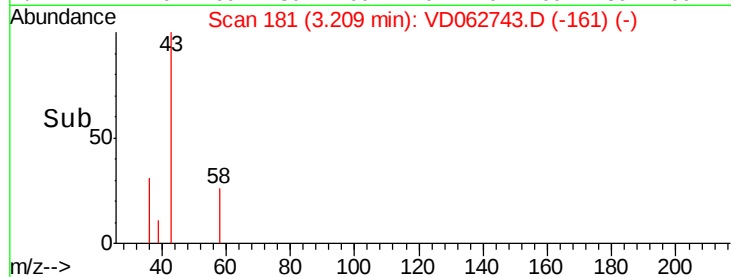
3.10

3.15

3.20

3.25

Time-->



#20

Methylene Chloride

Concen: 2.905 ug/l

RT: 3.82 min Scan# 243

Delta R.T. 0.01 min

Lab File: VD062743.D

Acq: 18 Jun 2019 12:10

Tgt Ion: 84 Resp: 21945

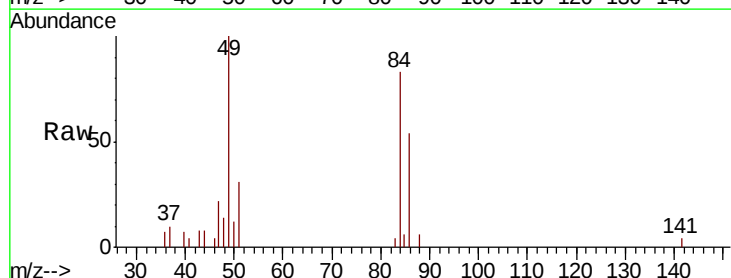
Ion Ratio Lower Upper

84 100

49 120.0 111.2 166.8

51 37.2 31.9 47.9

86 64.6 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

15000

10000

5000

0

3.70

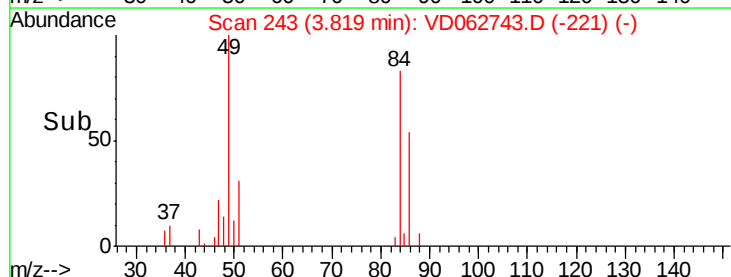
3.75

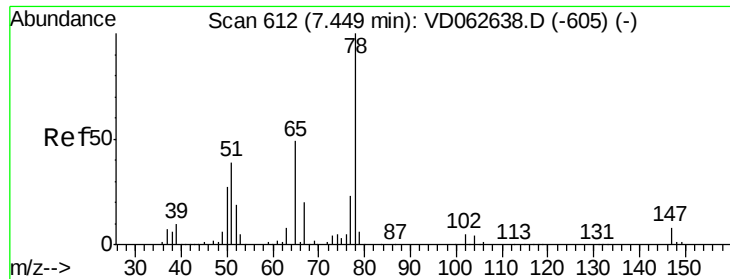
3.80

3.85

3.90

Time-->





#33

1,2-Dichloroethane-d4

Concen: 53.642 ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.00 min

Lab File: VD062743.D

Acq: 18 Jun 2019 12:10

Instrument :

MSVOA_D

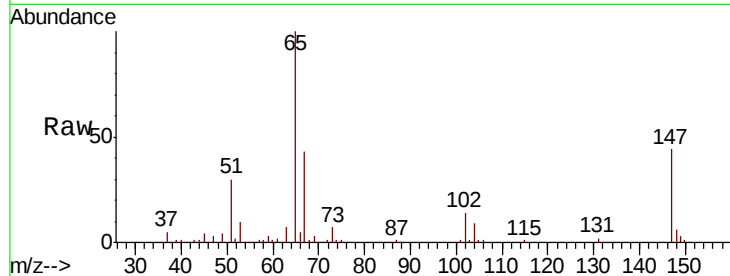
ClientSampled :

Tot Ion: 65 Resp: 512338

Ion Ratio Lower Upper

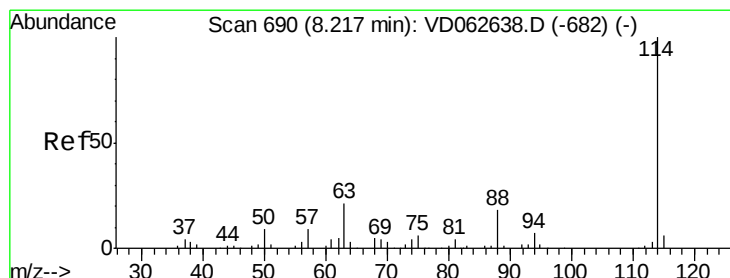
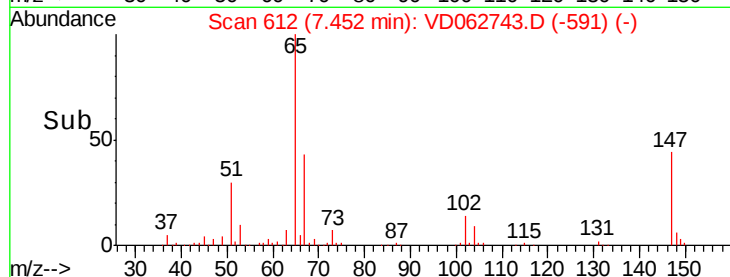
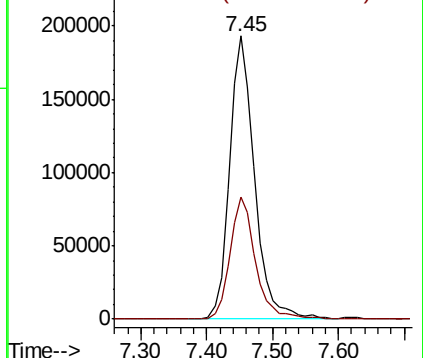
65 100

67 43.0 0.0 81.8



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: 8.22 min Scan# 690

Delta R.T. 0.00 min

Lab File: VD062743.D

Acq: 18 Jun 2019 12:10

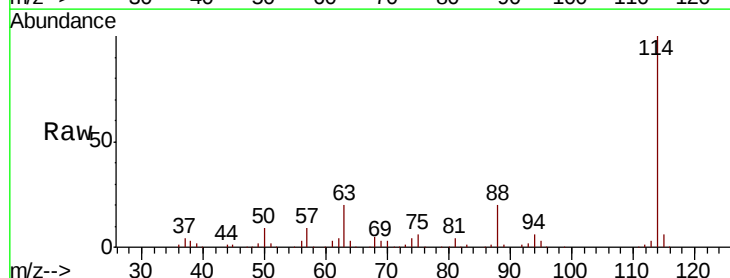
Tgt Ion: 114 Resp: 869458

Ion Ratio Lower Upper

114 100

63 20.4 0.0 42.4

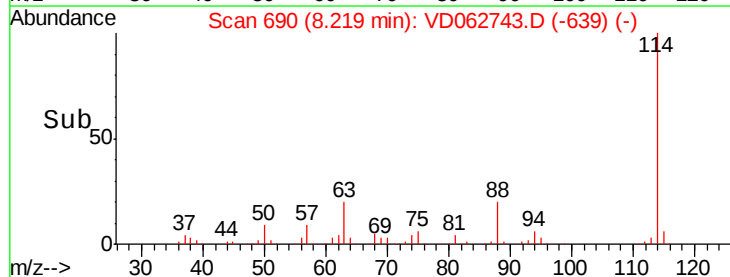
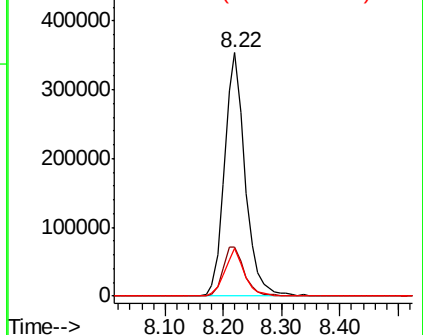
88 19.7 0.0 36.8

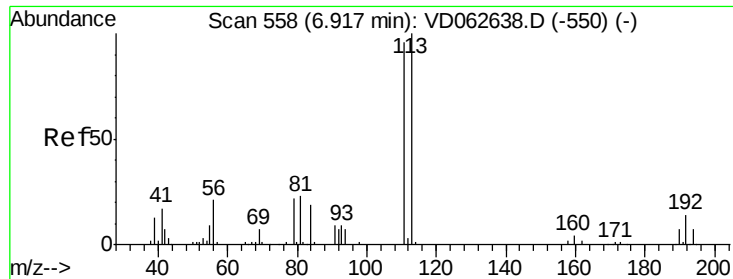


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

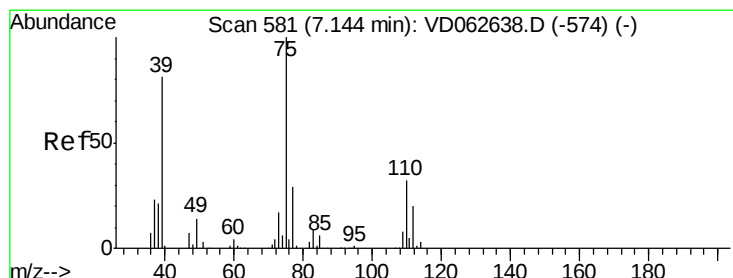
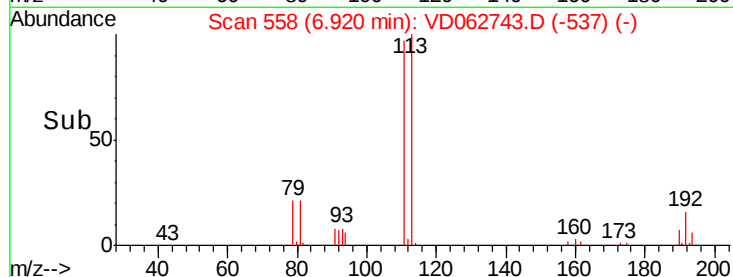
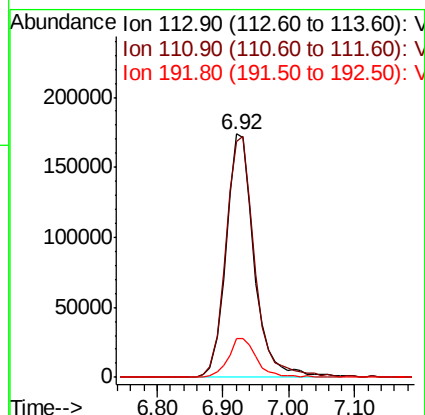
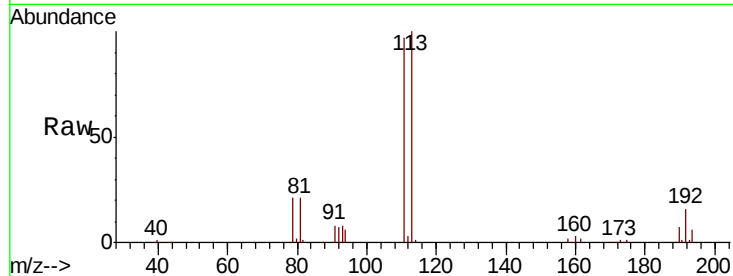




#35
 Dibromofluoromethane
 Concen: 56.583 ug/l
 RT: 6.92 min Scan# 558
 Delta R.T. 0.00 min
 Lab File: VD062743.D
 Acq: 18 Jun 2019 12:10

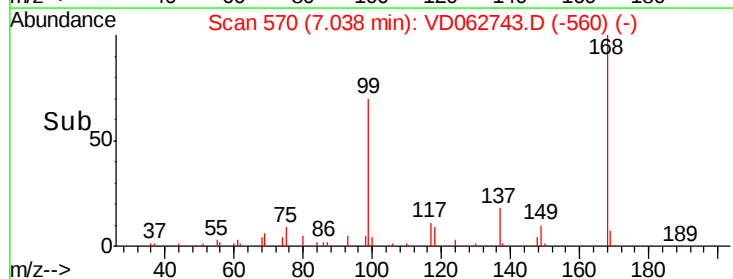
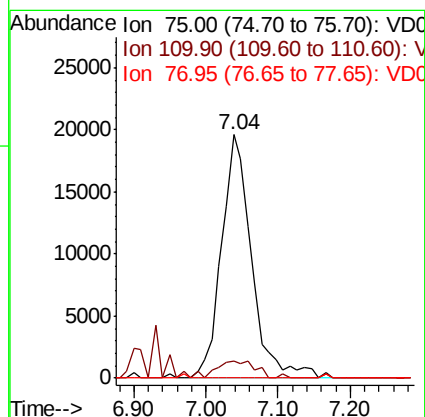
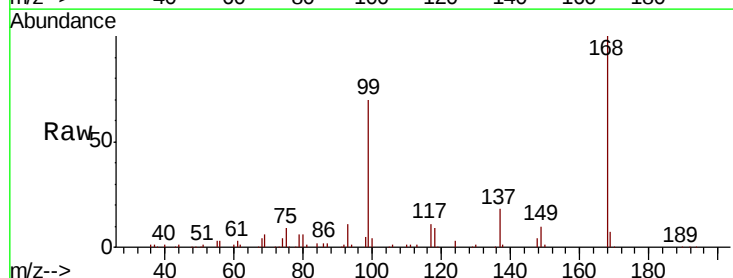
Instrument :
 MSVOA_D
 ClientSampleId :

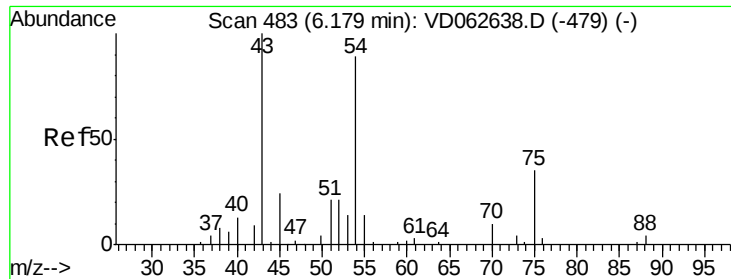
Tot Ion:113 Resp: 518840
 Ion Ratio Lower Upper
 113 100
 111 96.9 76.4 114.6
 192 16.1 11.4 17.0



#36
 1,1-Dichloropropene
 Concen: 5.682 ug/l
 RT: 7.04 min Scan# 570
 Delta R.T. -0.11 min
 Lab File: VD062743.D
 Acq: 18 Jun 2019 12:10

Tgt Ion: 75 Resp: 56542
 Ion Ratio Lower Upper
 75 100
 110 6.8 15.9 47.7#
 77 0.0 23.3 34.9#

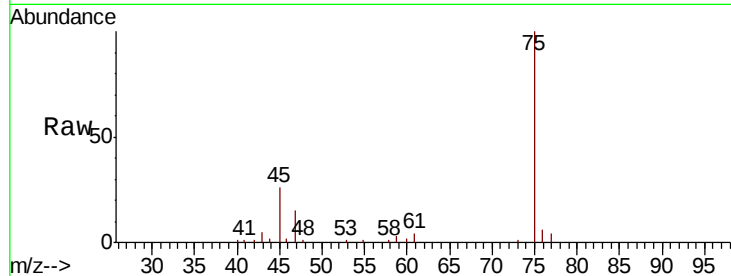




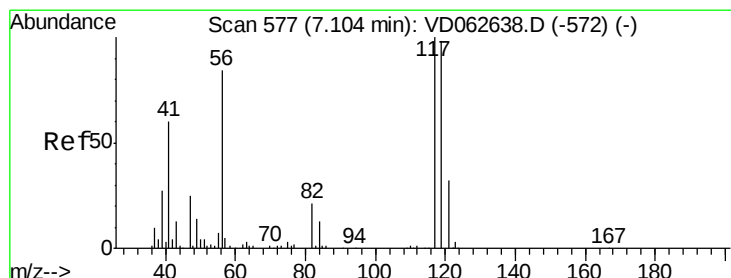
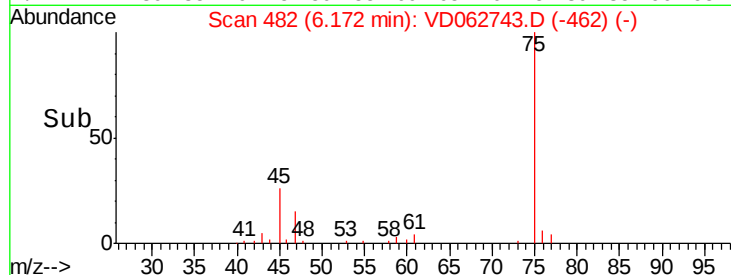
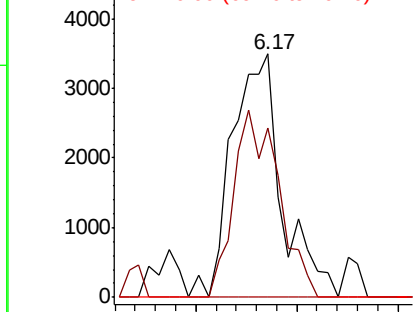
#37
Ethyl Acetate
Concen: 3.956 ug/l
RT: 6.17 min Scan# 482
Delta R.T. -0.01 min
Lab File: VD062743.D
Acq: 18 Jun 2019 12:10

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 11977
Ion Ratio Lower Upper
43 100
61 69.7 8.7 13.1#
70 0.0 6.5 9.7#

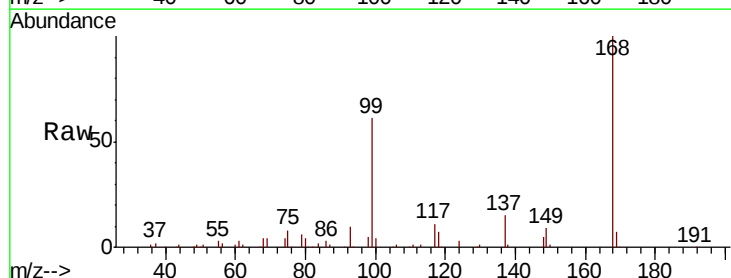


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

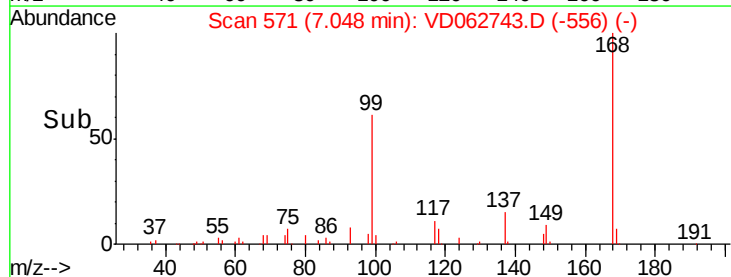
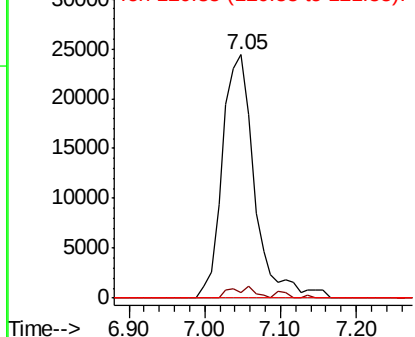


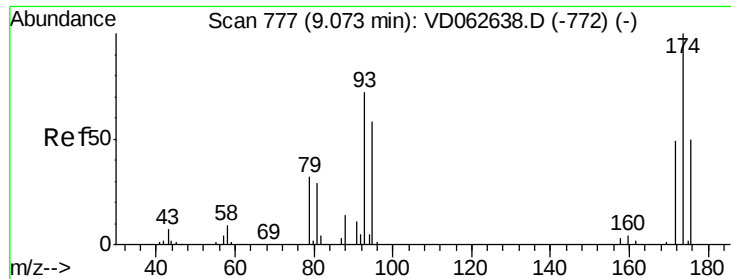
#38
Carbon Tetrachloride
Concen: 4.587 ug/l
RT: 7.05 min Scan# 571
Delta R.T. -0.06 min
Lab File: VD062743.D
Acq: 18 Jun 2019 12:10

Tgt Ion: 117 Resp: 72148
Ion Ratio Lower Upper
117 100
119 2.5 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

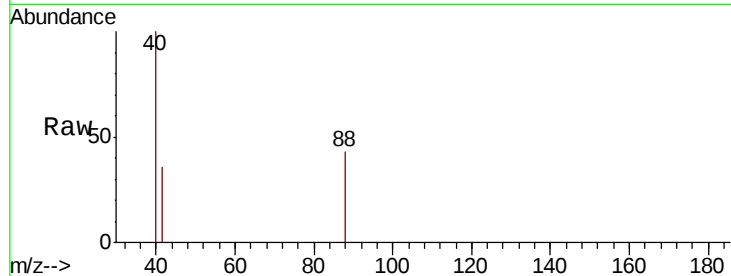




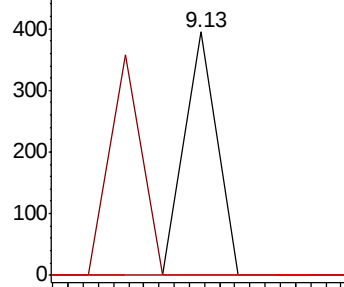
#49
 1,4-Dioxane
 Concen: 53.808 ug/l
 RT: 9.13 min Scan# 783
 Delta R.T. 0.06 min
 Lab File: VD062743.D
 Acq: 18 Jun 2019 12:10

Instrument :
 MSVOA_D
 ClientSampled :

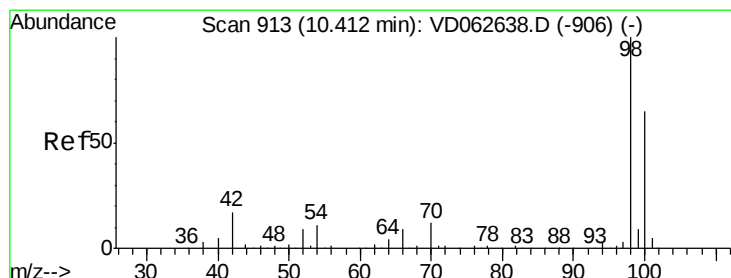
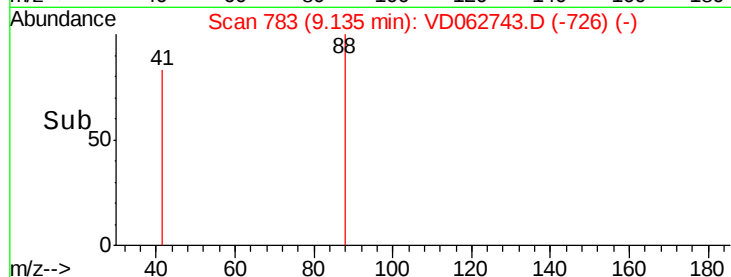
Tot Ion: 88 Resp: 233
 Ion Ratio Lower Upper
 88 100
 43 0.0 40.7 61.1#
 58 0.0 54.2 81.4#



Abundance Ion 88.00 (87.70 to 88.70): VDC
 Ion 43.05 (42.75 to 43.75): VDC
 Ion 57.95 (57.65 to 58.65): VDC

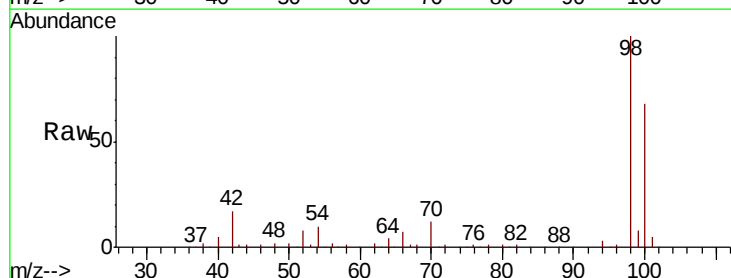


Time-->

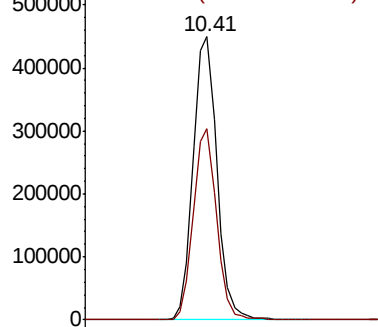


#50
 Toluene-d8
 Concen: 55.781 ug/l
 RT: 10.41 min Scan# 913
 Delta R.T. 0.00 min
 Lab File: VD062743.D
 Acq: 18 Jun 2019 12:10

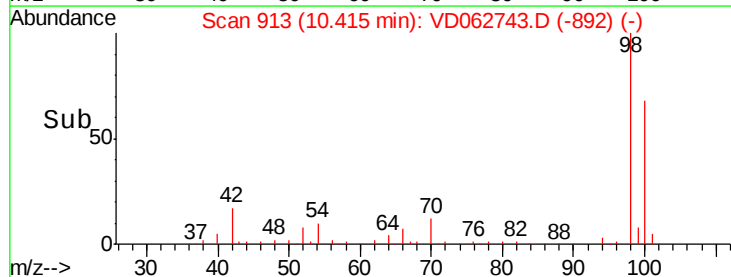
Tgt Ion: 98 Resp: 1075998
 Ion Ratio Lower Upper
 98 100
 100 67.5 52.1 78.1

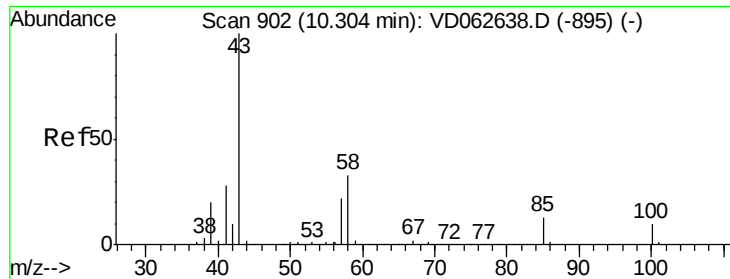


Abundance Ion 98.05 (97.75 to 98.75): VDC
 Ion 100.05 (99.75 to 100.75): VDC



Time-->





#51

4-Methyl-2-Pentanone

Concen: 1.280 ug/l

RT: 10.31 min Scan# 902

Delta R.T. 0.00 min

Lab File: VD062743.D

Acq: 18 Jun 2019 12:10

Instrument :

MSVOA_D

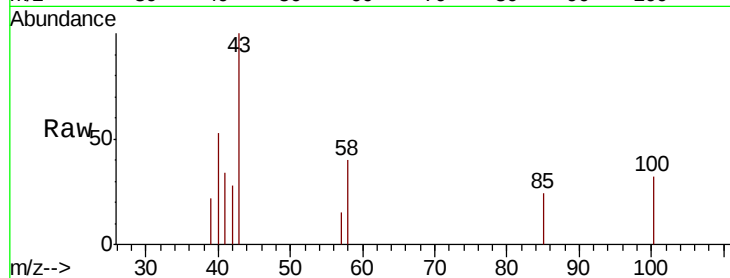
ClientSampled :

Tot Ion: 43 Resp: 4702

Ion Ratio Lower Upper

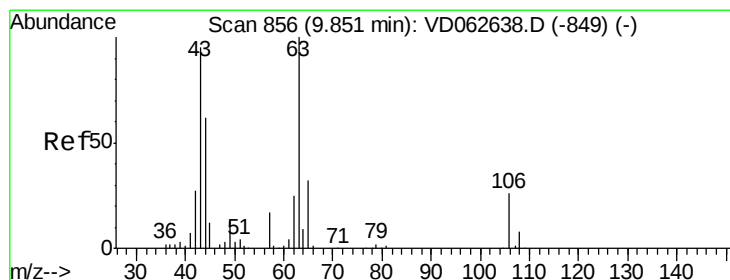
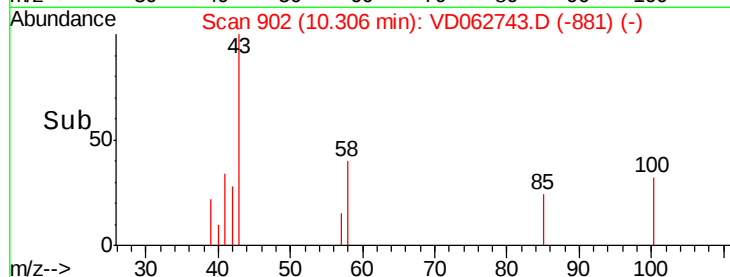
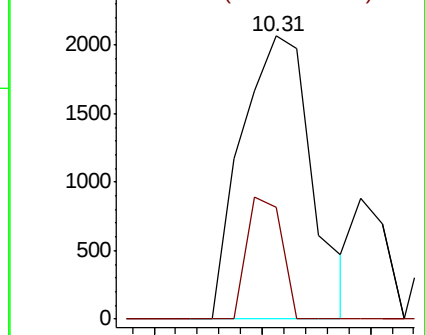
43 100

58 39.6 26.1 39.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 5.413 ug/l

RT: 9.86 min Scan# 857

Delta R.T. 0.01 min

Lab File: VD062743.D

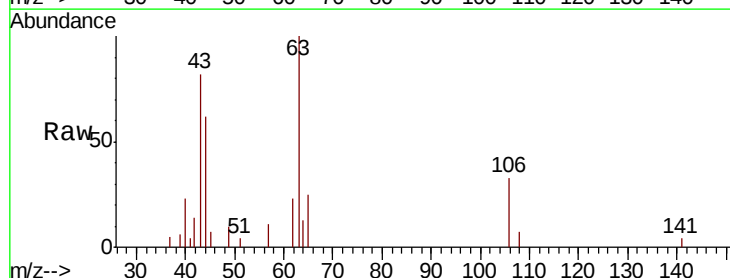
Acq: 18 Jun 2019 12:10

Tgt Ion: 63 Resp: 12961

Ion Ratio Lower Upper

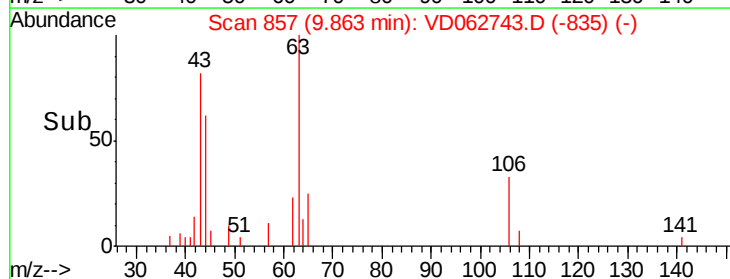
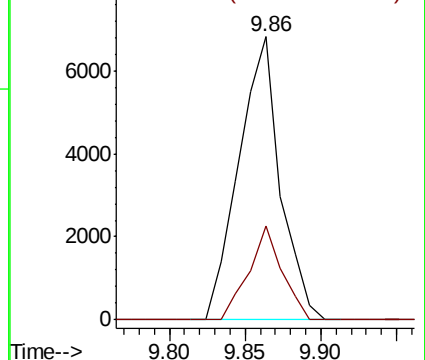
63 100

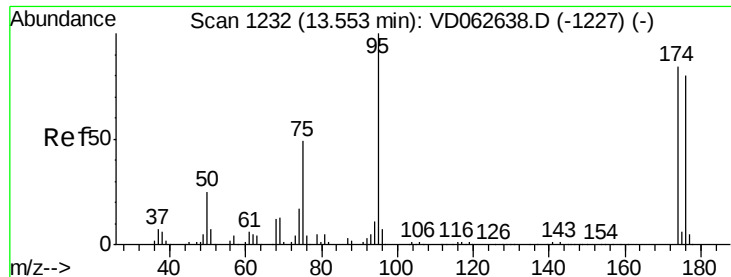
106 33.4 20.5 30.7#



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V





#62

4-Bromofluorobenzene

Concen: 55.375 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD062743.D

Acq: 18 Jun 2019 12:10

Instrument :

MSVOA_D

ClientSampleId :

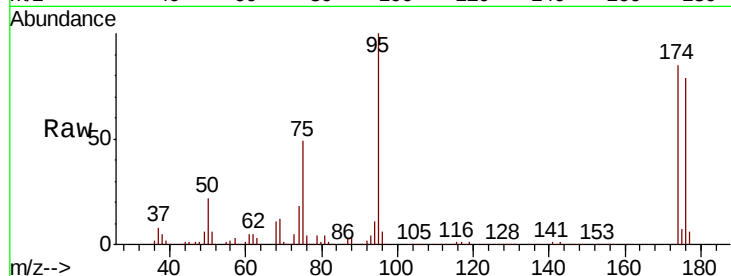
Tot Ion: 95 Resp: 498338

Ion Ratio Lower Upper

95 100

174 84.5 0.0 167.0

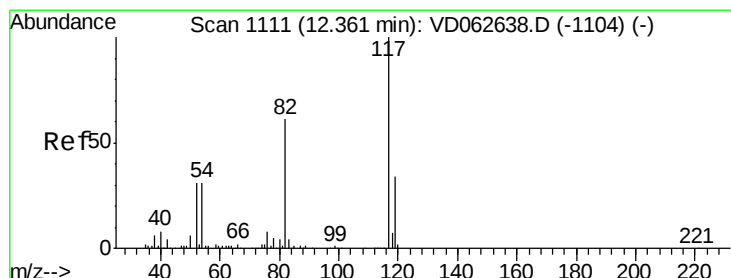
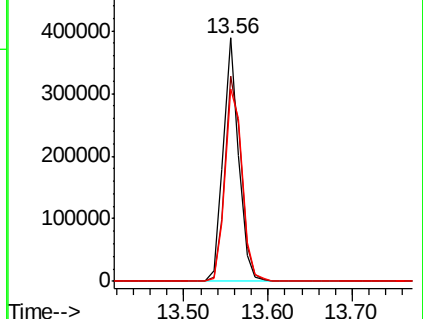
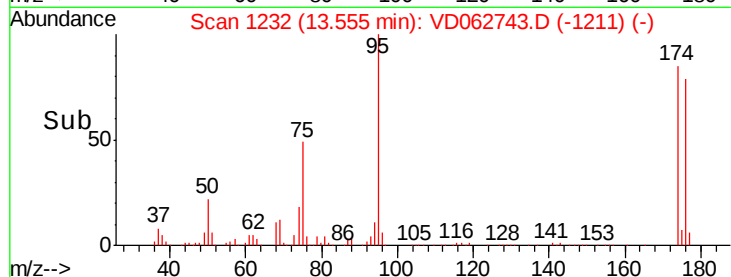
176 79.1 0.0 159.2



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: 12.36 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VD062743.D

Acq: 18 Jun 2019 12:10

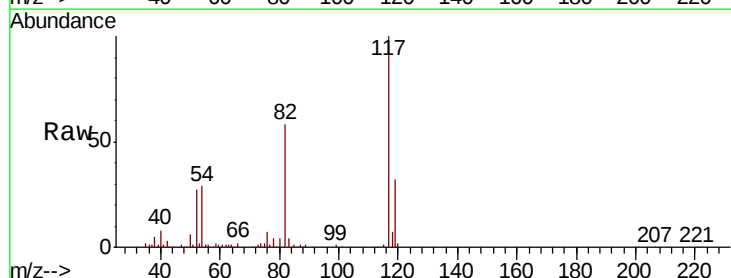
Tgt Ion: 117 Resp: 743063

Ion Ratio Lower Upper

117 100

82 58.5 48.7 73.1

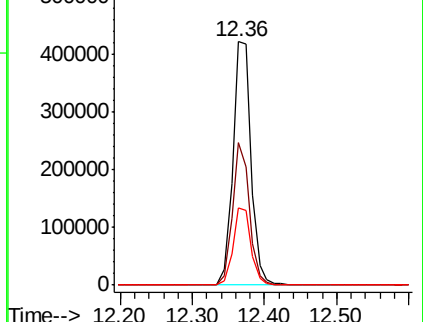
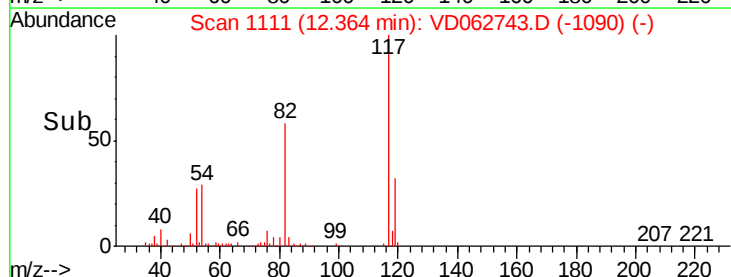
119 32.0 27.0 40.6

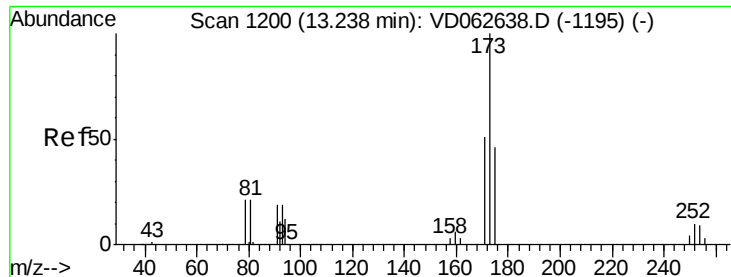


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#71

Bromoform

Concen: 2.870 ug/l

RT: 13.24 min Scan# 1200

Delta R.T. 0.00 min

Lab File: VD062743.D

Acq: 18 Jun 2019 12:10

Instrument :

MSVOA_D

ClientSampled :

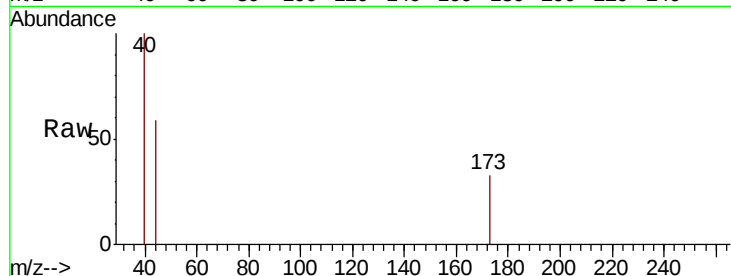
Tot Ion:173 Resp: 246

Ion Ratio Lower Upper

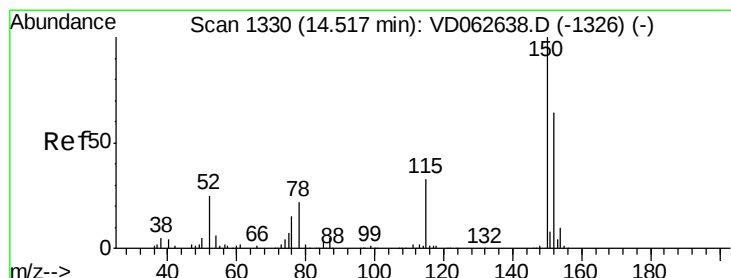
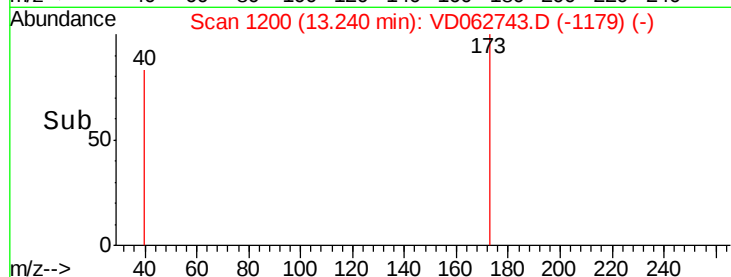
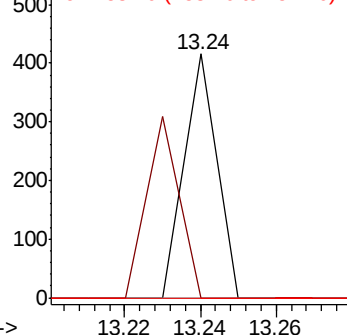
173 100

175 0.0 22.9 68.7#

254 0.0 7.0 10.4#



Abundance Ion 172.80 (172.50 to 173.50): V
Ion 174.80 (174.50 to 175.50): V
Ion 253.70 (253.40 to 254.40): 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: VD062743.D

Acq: 18 Jun 2019 12:10

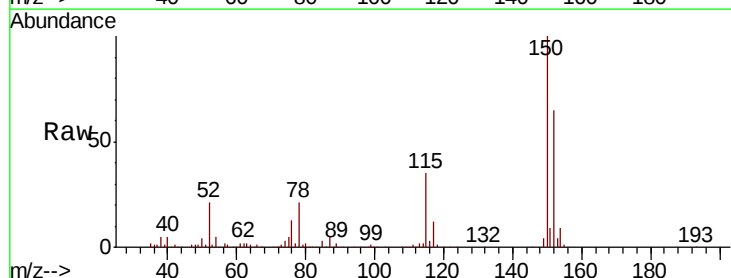
Tgt Ion:152 Resp: 394617

Ion Ratio Lower Upper

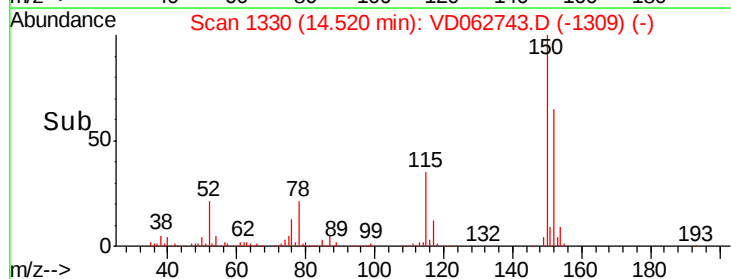
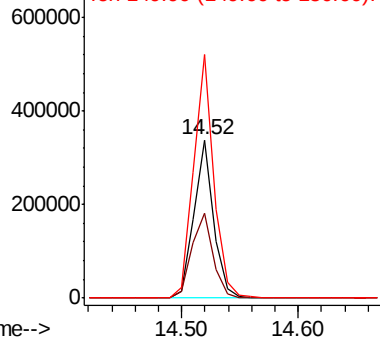
152 100

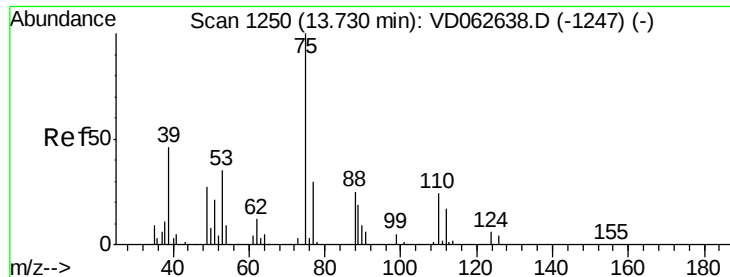
115 53.6 30.1 90.5

150 154.0 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





#76

1,2,3-Trichloropropane

Concen: 33.577 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. -0.17 min

Lab File: VD062743.D

Acq: 18 Jun 2019 12:10

Instrument :

MSVOA_D

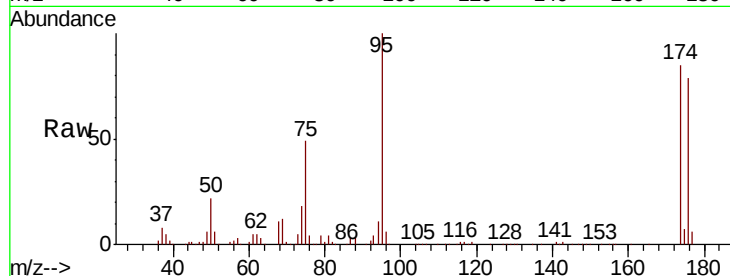
ClientSampleId :

Tot Ion: 75 Resp: 179658

Ion Ratio Lower Upper

75 100

77 1.5 16.2 48.6#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

13.56

200000

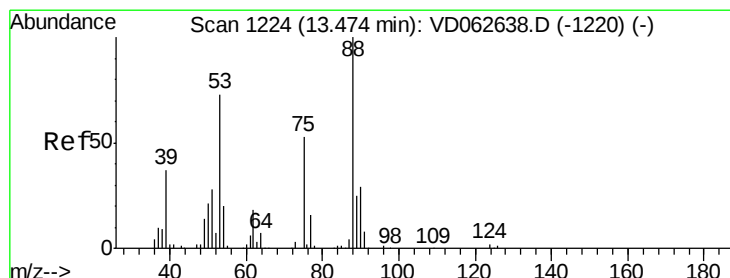
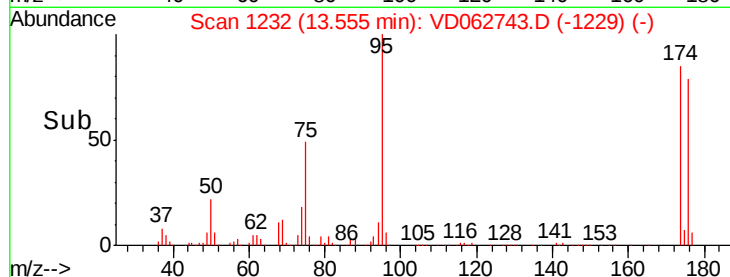
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 144.430 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD062743.D

Acq: 18 Jun 2019 12:10

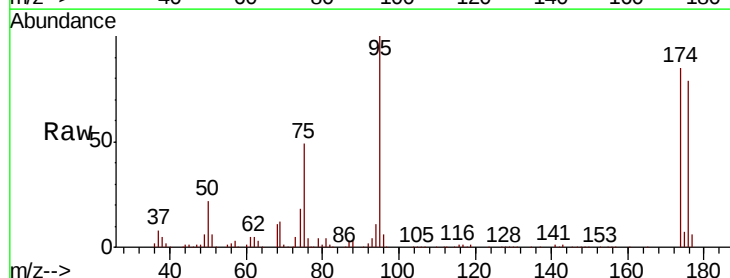
Tgt Ion: 75 Resp: 241833

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

13.56

250000

200000

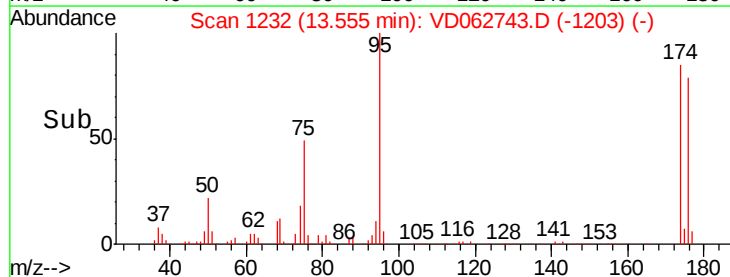
150000

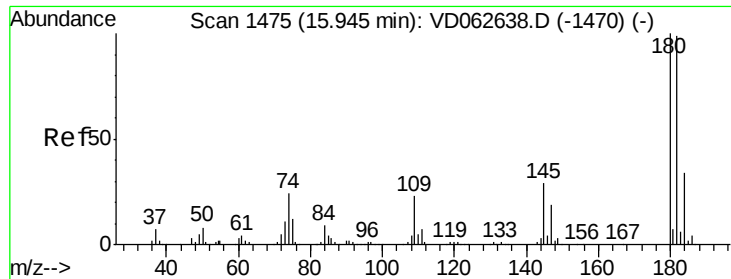
100000

50000

0

Time-->

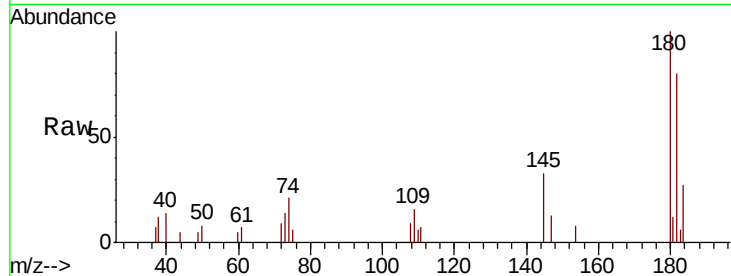




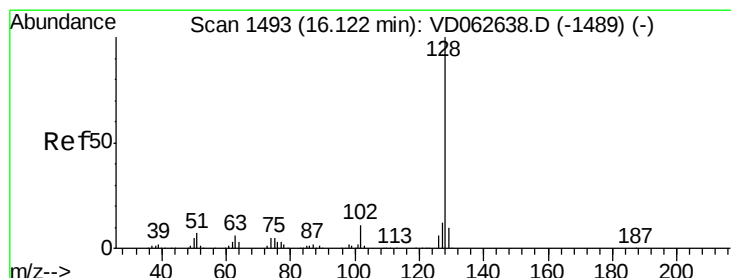
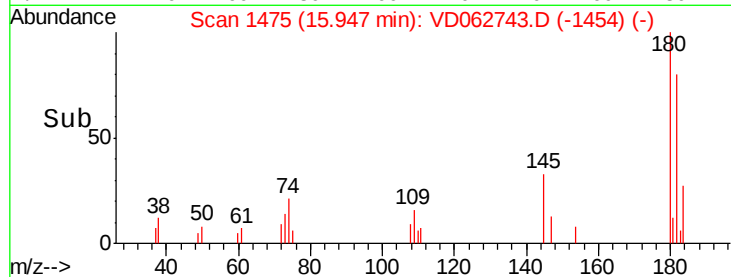
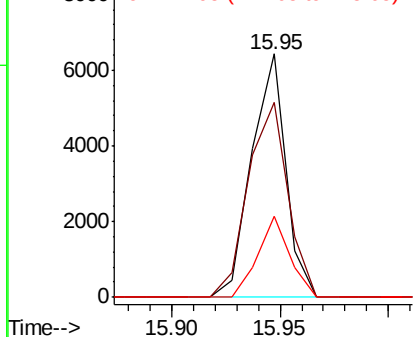
#93
 1,2,4-Trichlorobenzene
 Concen: 4.219 ug/l
 RT: 15.95 min Scan# 1475
 Delta R.T. 0.00 min
 Lab File: VD062743.D
 Acq: 18 Jun 2019 12:10

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:180 Resp: 7117
 Ion Ratio Lower Upper
 180 100
 182 80.1 49.4 148.2
 145 33.3 14.5 43.6

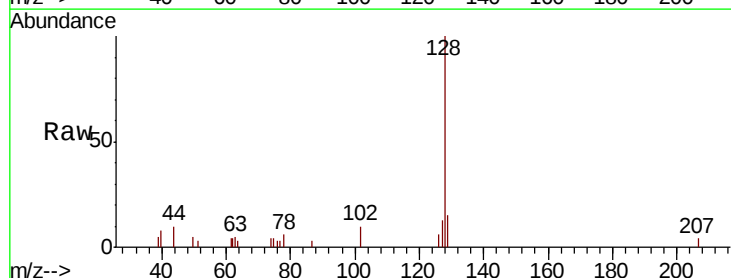


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V



#95
 Naphthalene
 Concen: 4.267 ug/l
 RT: 16.12 min Scan# 1493
 Delta R.T. 0.00 min
 Lab File: VD062743.D
 Acq: 18 Jun 2019 12:10

Tgt Ion:128 Resp: 12579
 Ion Ratio Lower Upper
 128 100
 127 13.1 9.7 14.5
 129 14.7 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

