

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071719\
 Data File : VD063137.D
 Acq On : 17 Jul 2019 17:54
 Operator : VA/AP
 Sample : K3830-03
 Misc : 6.95µl/5ml/MSVOA D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jul 18 06:58:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D071519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 08:11:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	704414	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.22	114	955446	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.37	117	755086	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	363064	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	392964	44.78	ug/l	0.01
Spiked Amount			Recovery	=	89.56%	
35) Dibromofluoromethane	6.93	113	396781	41.69	ug/l	0.01
Spiked Amount			Recovery	=	83.38%	
50) Toluene-d8	10.41	98	742762	36.34	ug/l	0.01
Spiked Amount			Recovery	=	72.68%	
62) 4-Bromofluorobenzene	13.55	95	333608	35.28	ug/l	0.00
Spiked Amount			Recovery	=	70.56%	

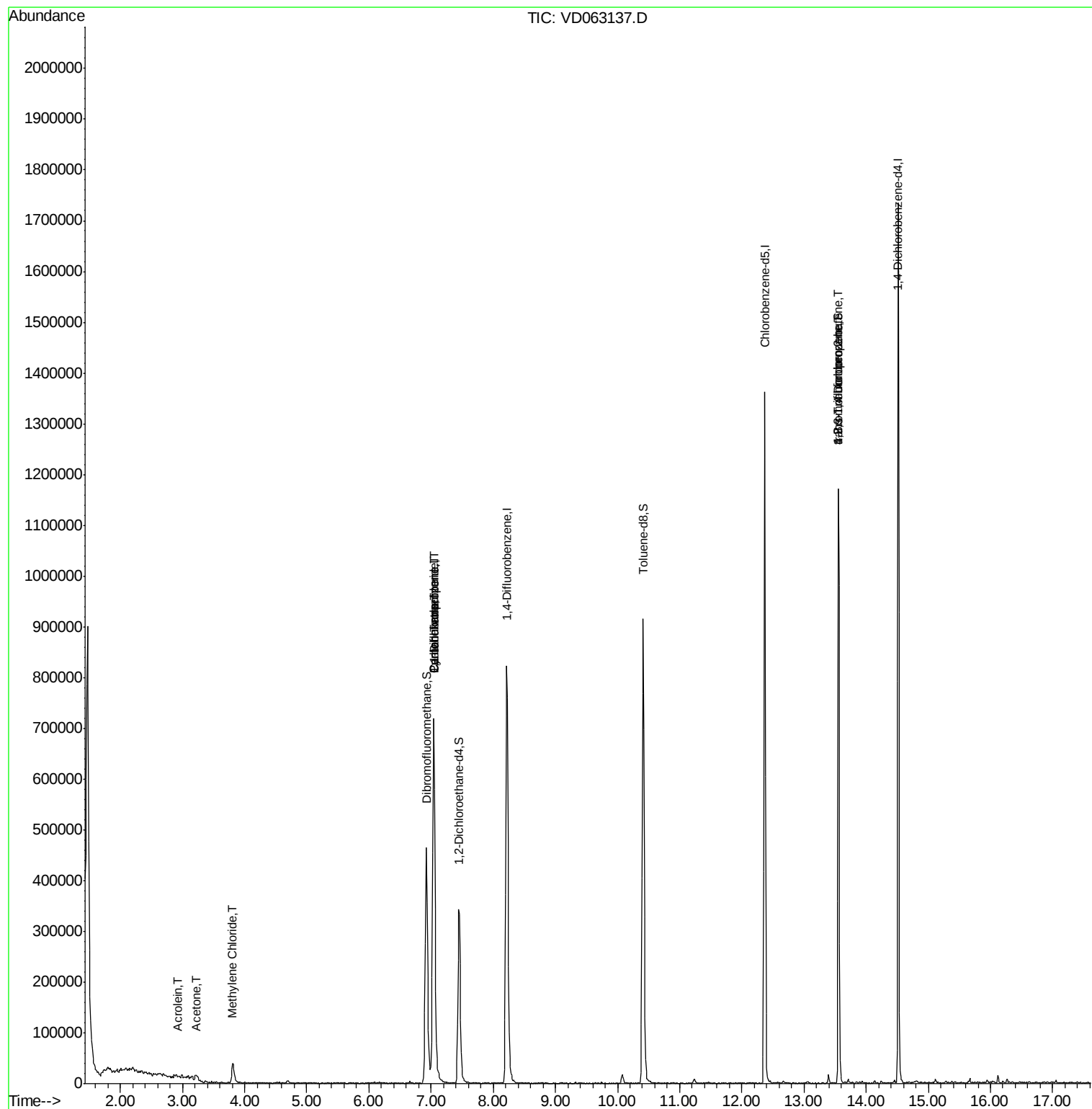
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	569	Below Cal	#	43
3) Chloromethane	1.73	50	280	Below Cal	#	48
5) Bromomethane	2.16	94	1636	Below Cal	#	42
13) Acrolein	2.94	56	180	1.178	ug/l #	17
16) Acetone	3.22	43	29046	13.705	ug/l #	66
18) Methyl Acetate	3.63	43	532	Below Cal	#	63
20) Methylene Chloride	3.82	84	24961	3.117	ug/l #	81
31) Cyclohexane	7.03	56	14837	1.776	ug/l #	1
36) 1,1-Dichloropropene	7.03	75	48617	4.524	ug/l #	49
38) Carbon Tetrachloride	7.04	117	70350	4.308	ug/l #	16
76) 1,2,3-Trichloropropane	13.55	75	130005	23.278	ug/l #	45
81) trans-1,4-Dichloro-2-buten	13.55	75	154718	105.198	ug/l #	1

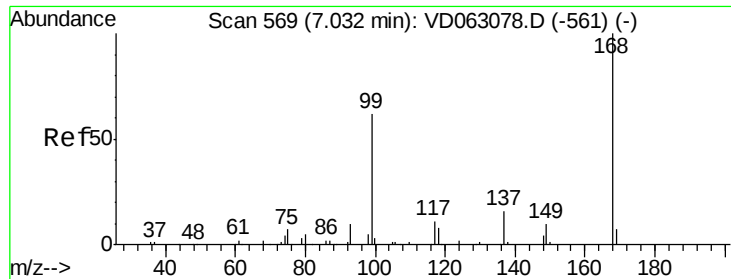
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD071719\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.01 min

Lab File: VD063137.D

Acq: 17 Jul 2019 17:54

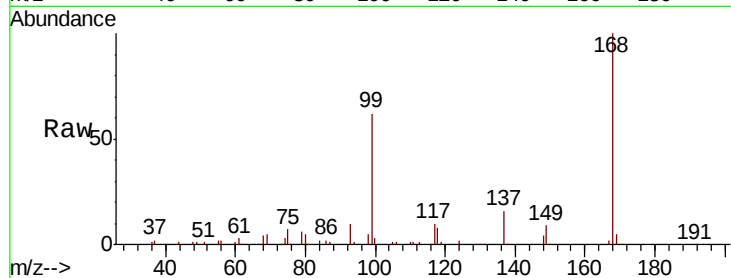
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 704414

Ion Ratio Lower Upper

168 100

99 61.9 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

250000

200000

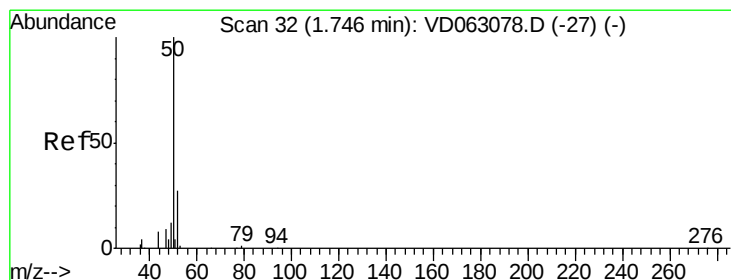
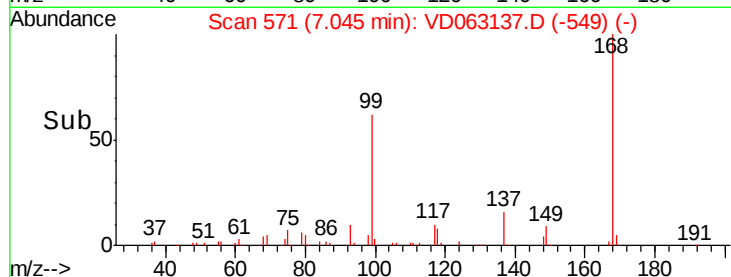
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.73 min Scan# 31

Delta R.T. -0.02 min

Lab File: VD063137.D

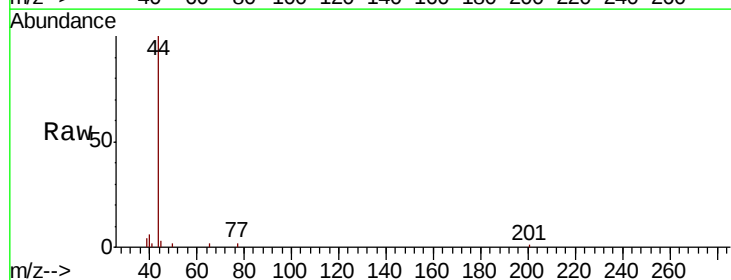
Acq: 17 Jul 2019 17:54

Tgt Ion: 50 Resp: 280

Ion Ratio Lower Upper

50 100

52 0.0 21.4 32.2#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.73

500

400

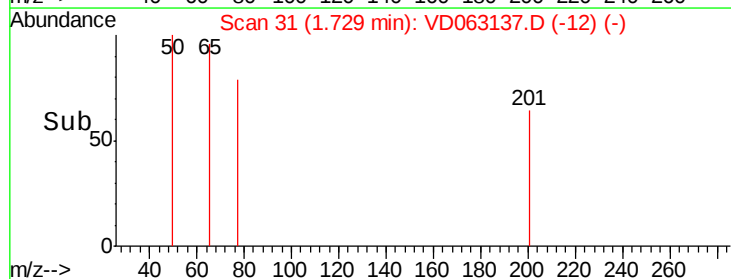
300

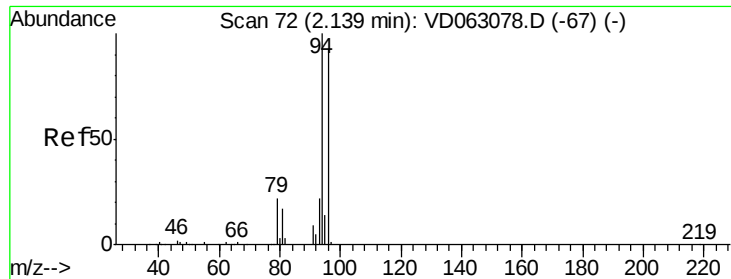
200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.16 min Scan# 75

Delta R.T. 0.02 min

Lab File: VD063137.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_D

ClientSampleId :

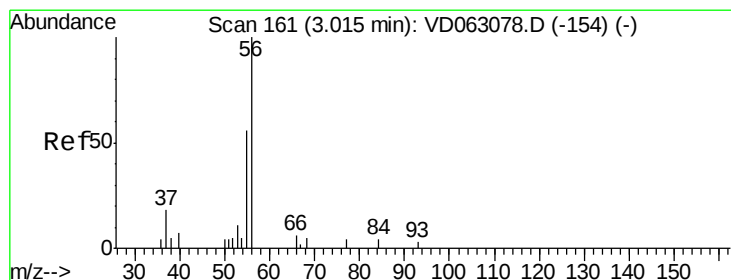
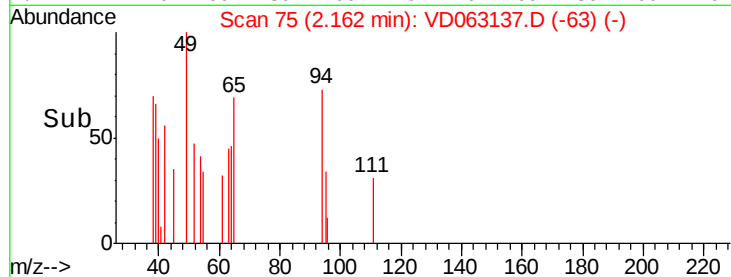
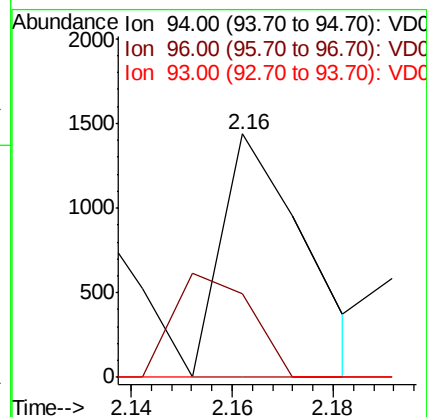
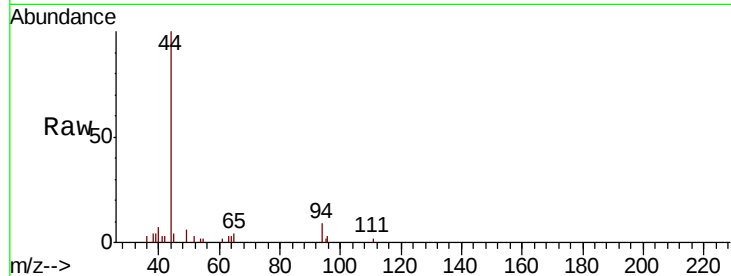
Tot Ion: 94 Resp: 1636

Ion Ratio Lower Upper

94 100

96 34.3 74.2 111.2#

93 0.0 17.8 26.6#



#13

Acrolein

Concen: 1.178 ug/l

RT: 2.94 min Scan# 154

Delta R.T. -0.08 min

Lab File: VD063137.D

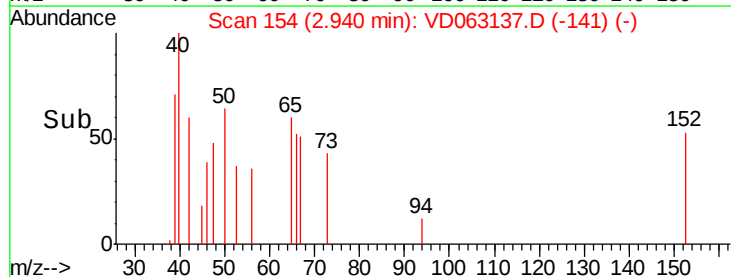
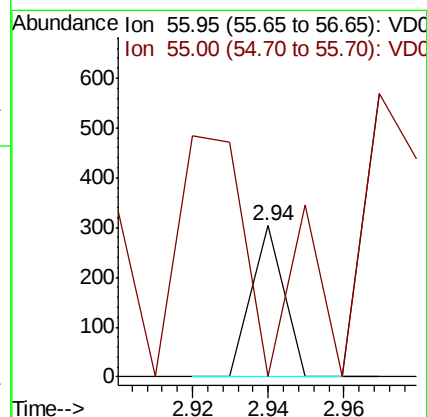
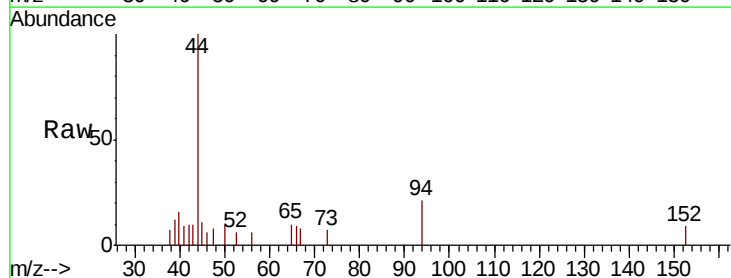
Acq: 17 Jul 2019 17:54

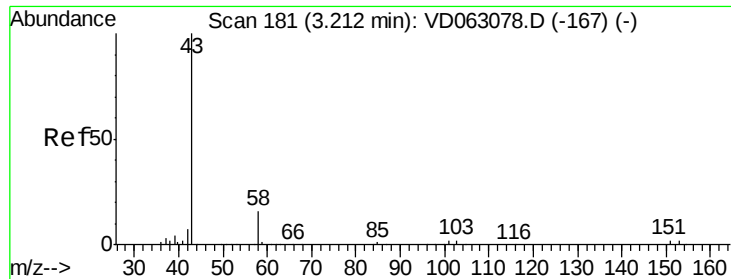
Tgt Ion: 56 Resp: 180

Ion Ratio Lower Upper

56 100

55 0.0 53.0 79.4#

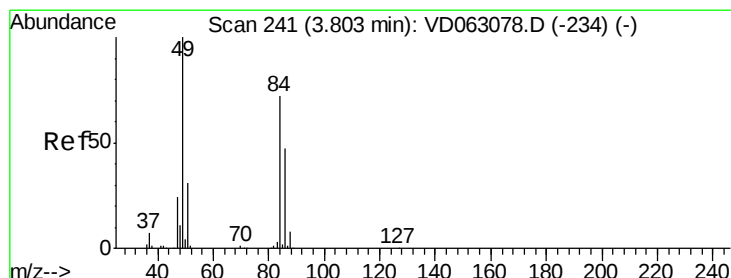
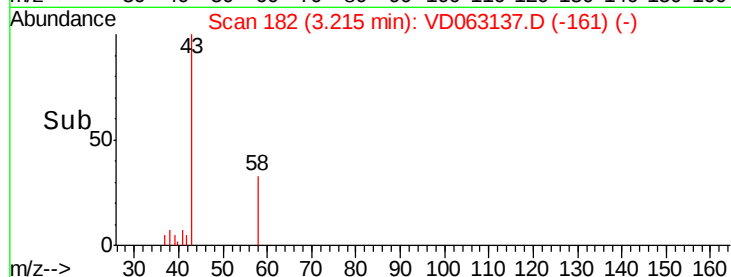
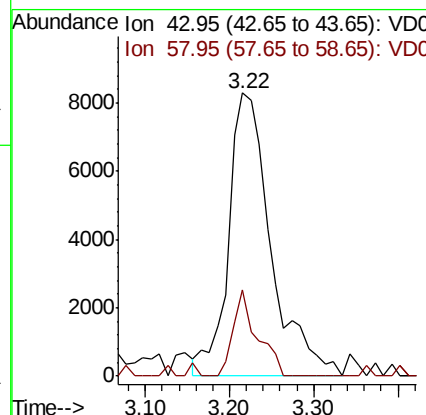
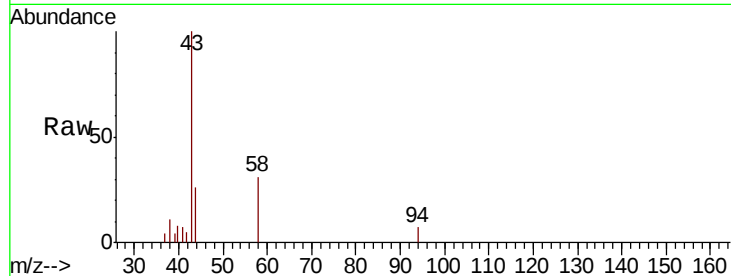




#16
Acetone
Concen: 13.705 ug/l
RT: 3.22 min Scan# 182
Delta R.T. 0.00 min
Lab File: VD063137.D
Acq: 17 Jul 2019 17:54

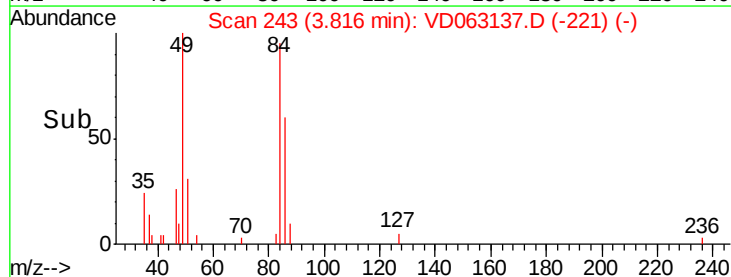
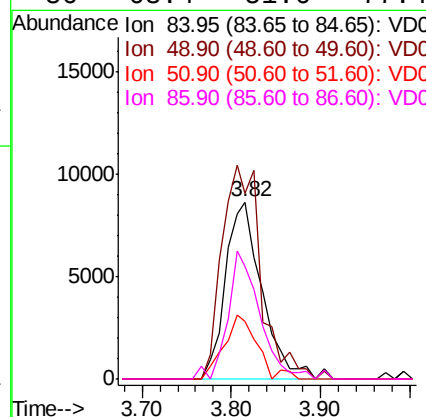
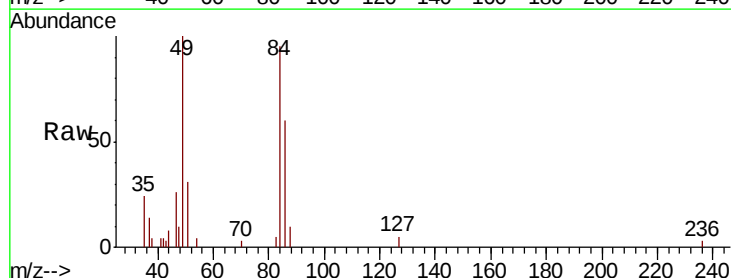
Instrument :
MSVOA_D
ClientSampleId :

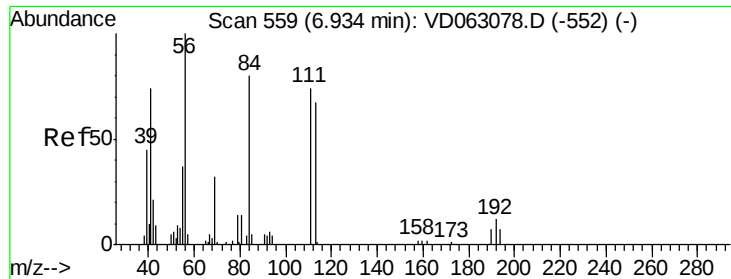
Tot Ion: 43 Resp: 29046
Ion Ratio Lower Upper
43 100
58 30.6 13.0 19.4#



#20
Methylene Chloride
Concen: 3.117 ug/l
RT: 3.82 min Scan# 243
Delta R.T. 0.01 min
Lab File: VD063137.D
Acq: 17 Jul 2019 17:54

Tgt Ion: 84 Resp: 24961
Ion Ratio Lower Upper
84 100
49 105.1 110.5 165.7#
51 32.9 34.6 51.8#
86 63.4 51.6 77.4





#31

Cvclohexane

Concen: 1.776 ug/l

RT: 7.03 min Scan# 570

Delta R.T. 0.10 min

Lab File: VD063137.D

Acq: 17 Jul 2019 17:54

Instrument :
MSVOA_D
ClientSampleId :

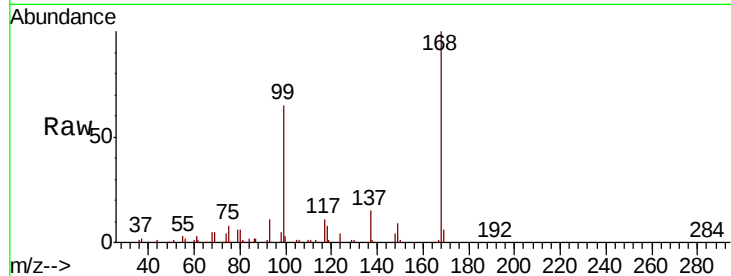
Tot Ion: 56 Resp: 14837

Ion Ratio Lower Upper

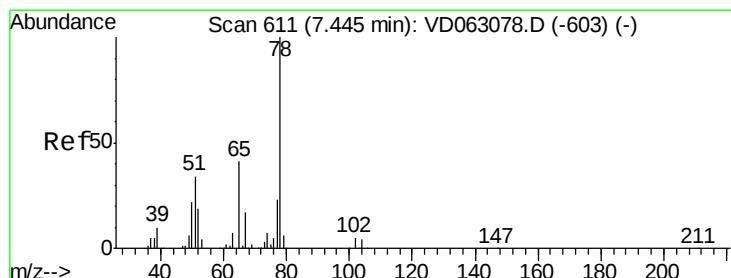
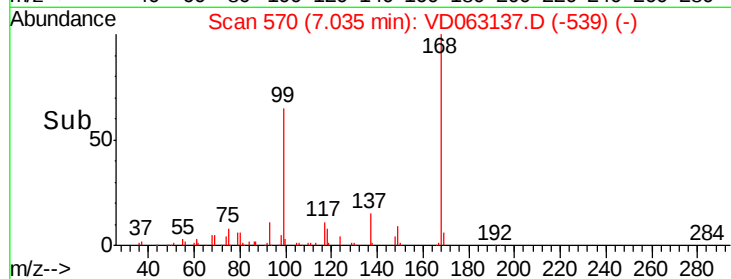
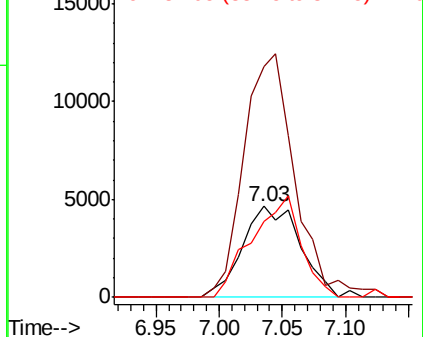
56 100

69 252.8 25.3 37.9#

84 83.9 64.2 96.4



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: 44.783 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.01 min

Lab File: VD063137.D

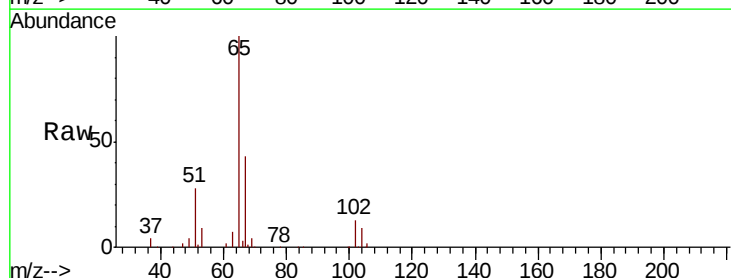
Acq: 17 Jul 2019 17:54

Tgt Ion: 65 Resp: 392964

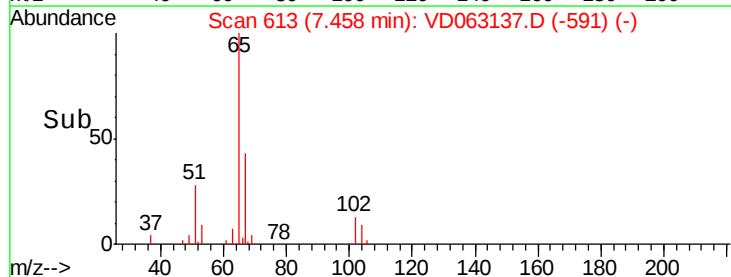
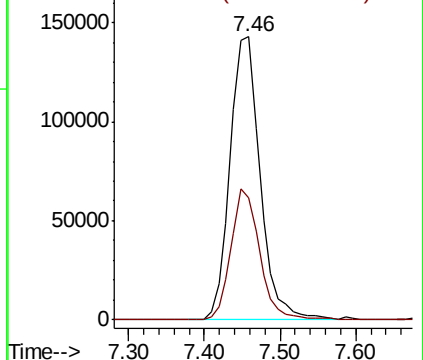
Ion Ratio Lower Upper

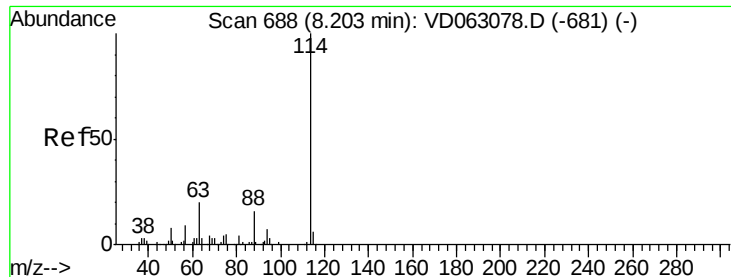
65 100

67 43.1 0.0 86.0



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. 0.01 min

Lab File: VD063137.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_D

ClientSampleId :

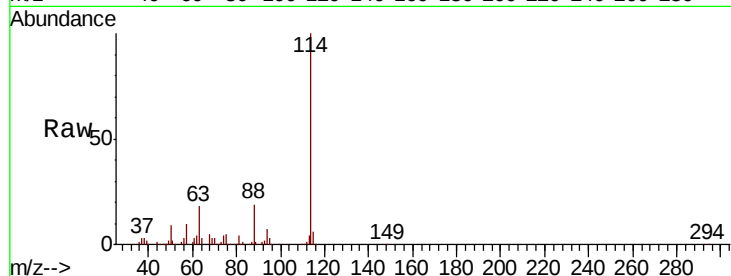
Tot Ion:114 Resp: 955446

Ion Ratio Lower Upper

114 100

63 18.5 0.0 40.6

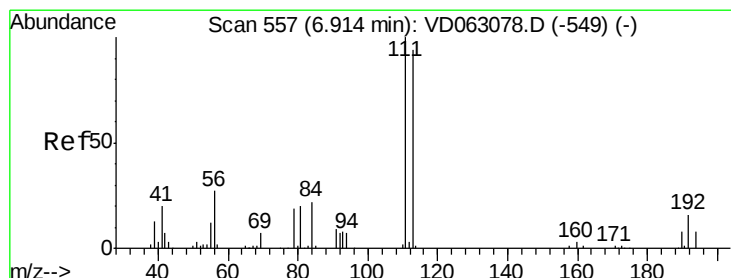
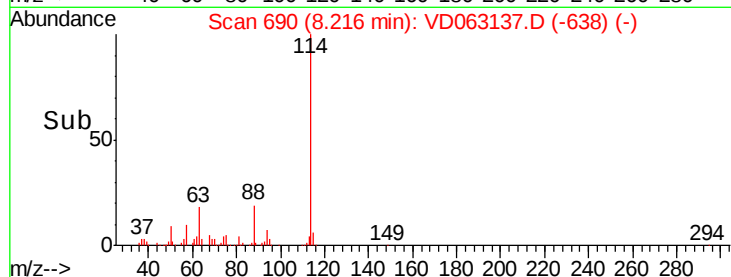
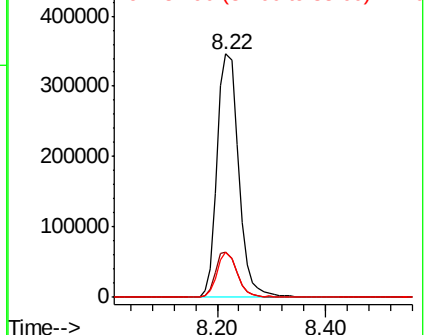
88 18.5 0.0 32.6



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: 41.694 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.01 min

Lab File: VD063137.D

Acq: 17 Jul 2019 17:54

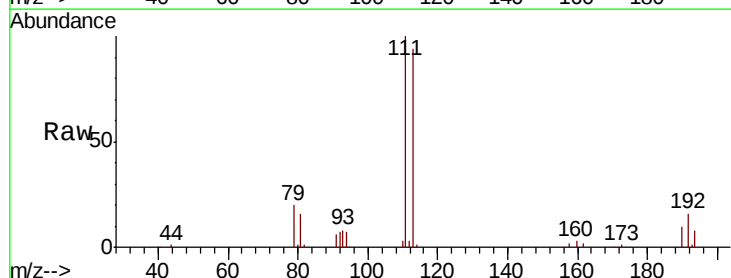
Tgt Ion:113 Resp: 396781

Ion Ratio Lower Upper

113 100

111 106.9 84.8 127.2

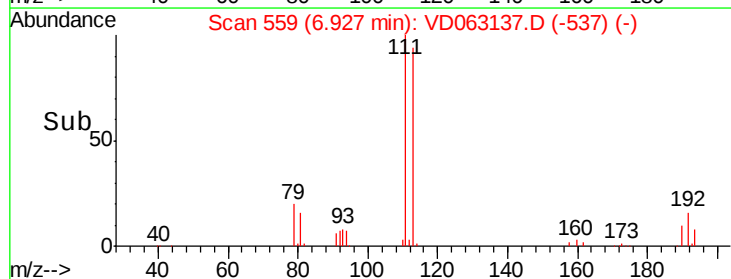
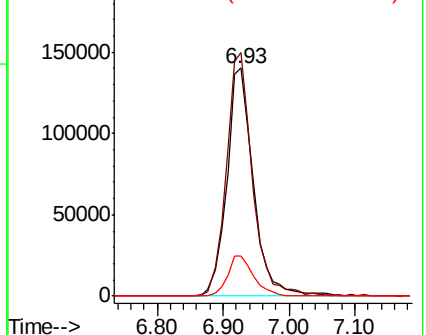
192 17.3 13.4 20.0

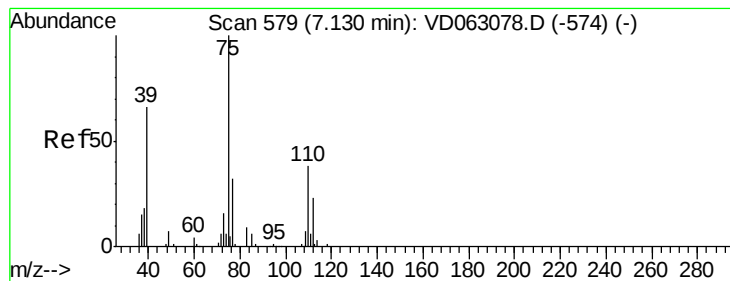


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 4.524 ug/l

RT: 7.03 min Scan# 570

Delta R.T. -0.10 min

Lab File: VD063137.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_D

ClientSampleId :

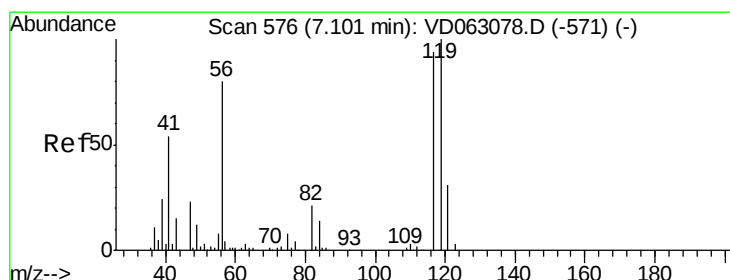
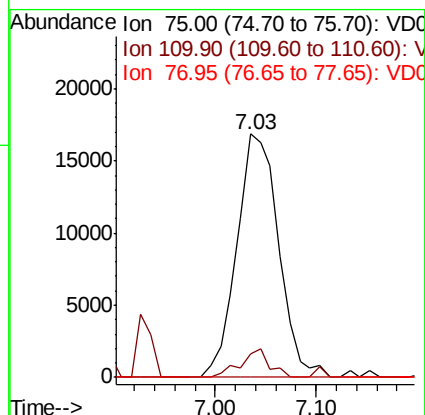
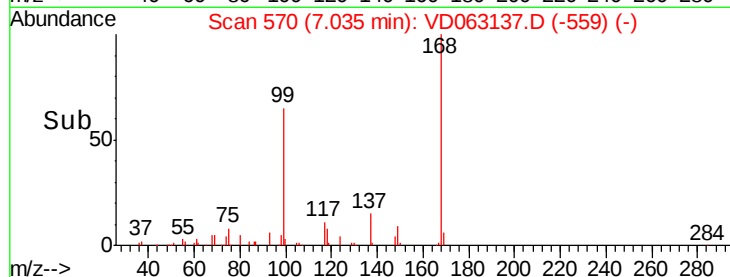
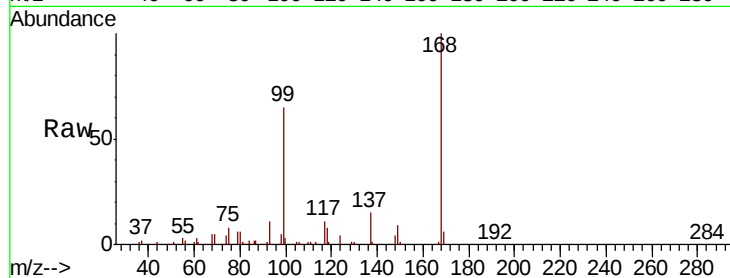
Tot Ion: 75 Resp: 48617

Ion Ratio Lower Upper

75 100

110 9.5 18.9 56.5#

77 0.0 25.2 37.8#



#38

Carbon Tetrachloride

Concen: 4.308 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.06 min

Lab File: VD063137.D

Acq: 17 Jul 2019 17:54

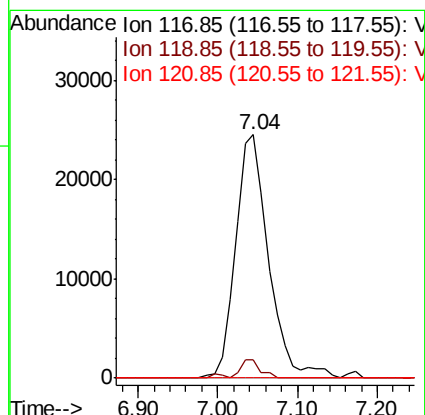
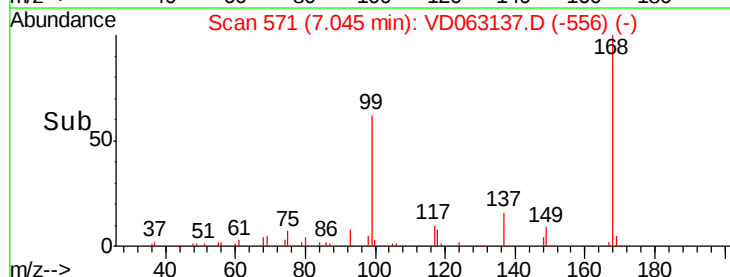
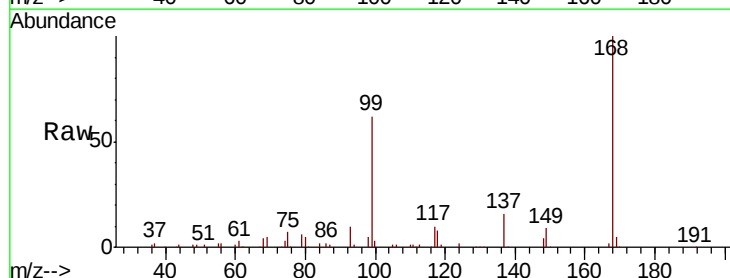
Tgt Ion: 117 Resp: 70350

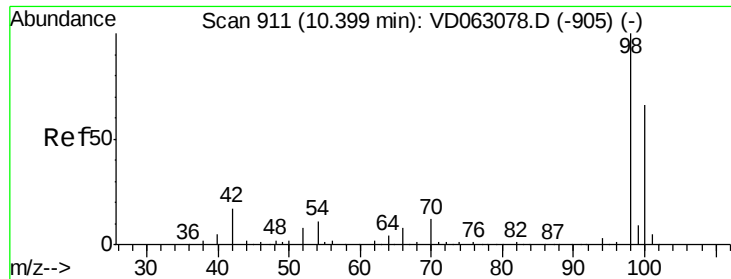
Ion Ratio Lower Upper

117 100

119 7.8 80.0 120.0#

121 0.0 25.0 37.4#

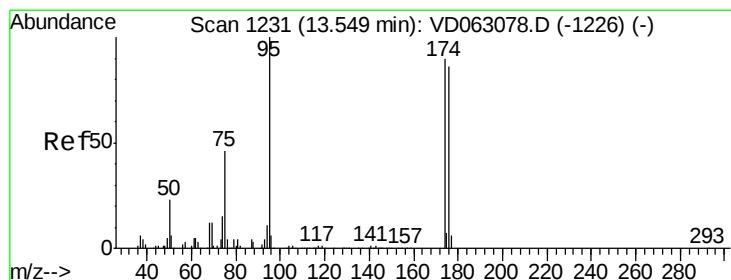
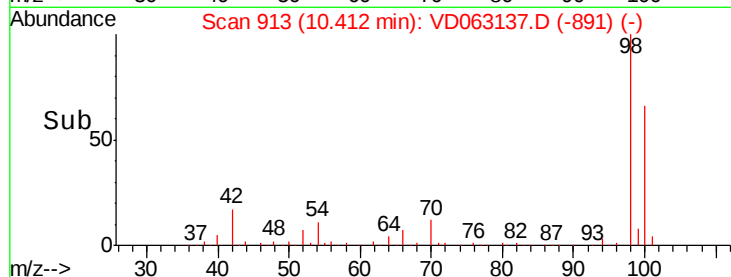
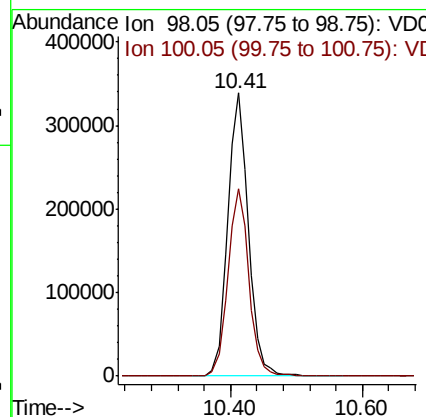
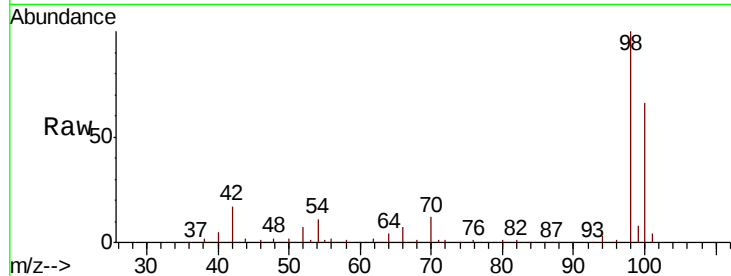




#50
Toluene-d8
Concen: 36.336 ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.01 min
Lab File: VD063137.D
Acq: 17 Jul 2019 17:54

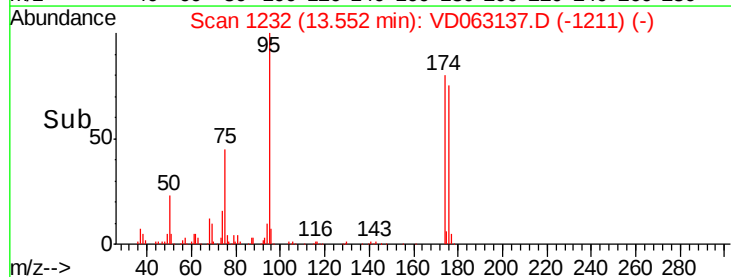
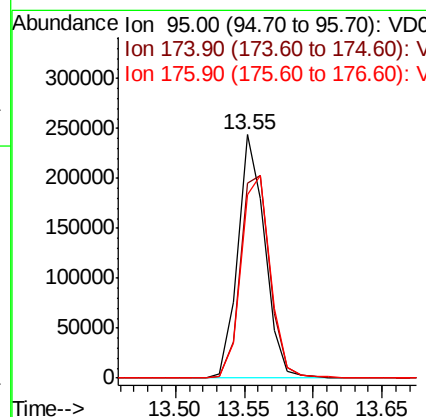
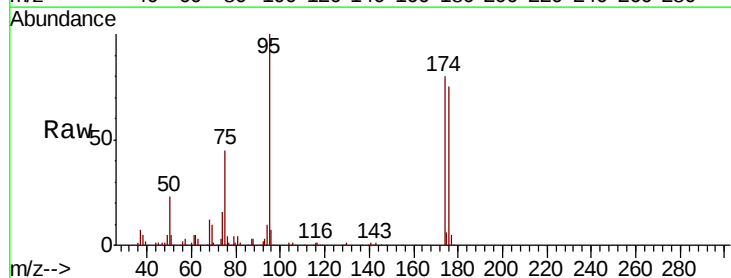
Instrument :
MSVOA_D
ClientSampleId :

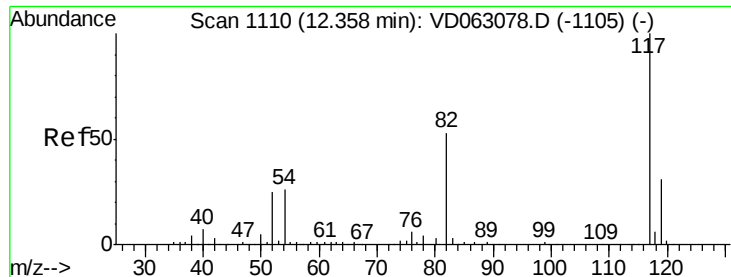
Tot Ion: 98 Resp: 742762
Ion Ratio Lower Upper
98 100
100 66.2 53.5 80.3



#62
4-Bromofluorobenzene
Concen: 35.277 ug/l
RT: 13.55 min Scan# 1232
Delta R.T. 0.00 min
Lab File: VD063137.D
Acq: 17 Jul 2019 17:54

Tgt Ion: 95 Resp: 333608
Ion Ratio Lower Upper
95 100
174 80.3 0.0 180.6
176 75.2 0.0 172.2

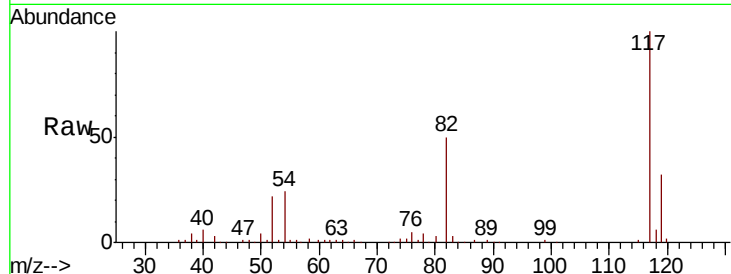




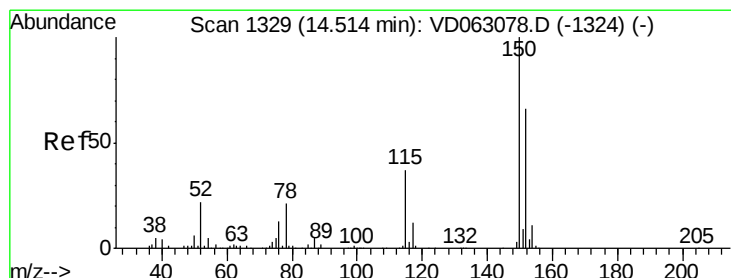
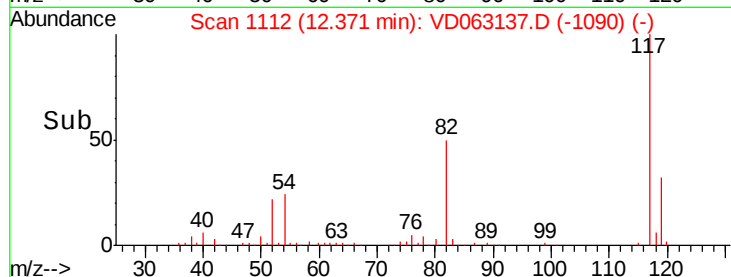
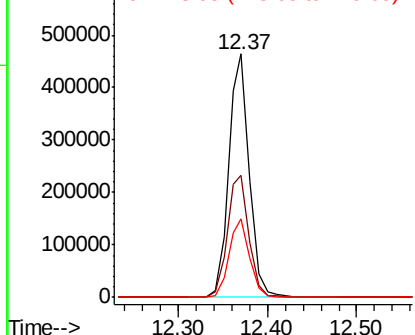
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD063137.D
Acq: 17 Jul 2019 17:54

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 755086
Ion Ratio Lower Upper
117 100
82 50.2 42.3 63.5
119 32.0 25.2 37.8

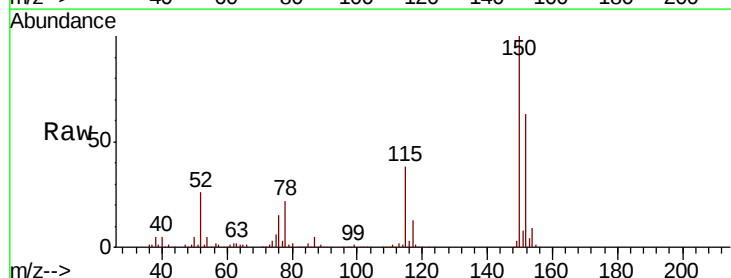


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): VD
Ion 118.95 (118.65 to 119.65): V

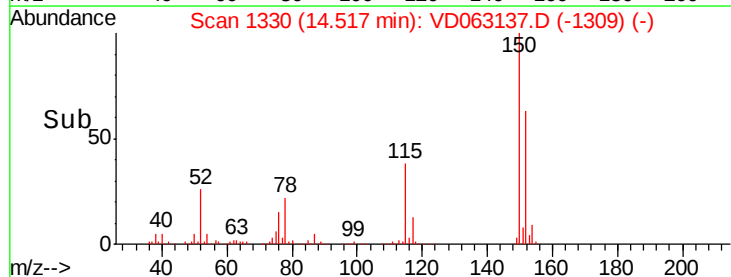
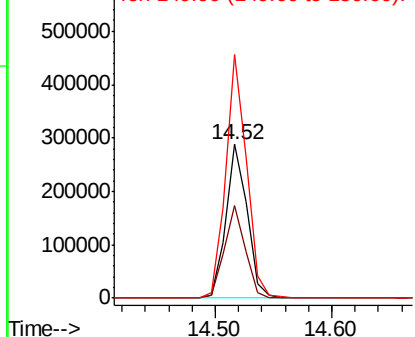


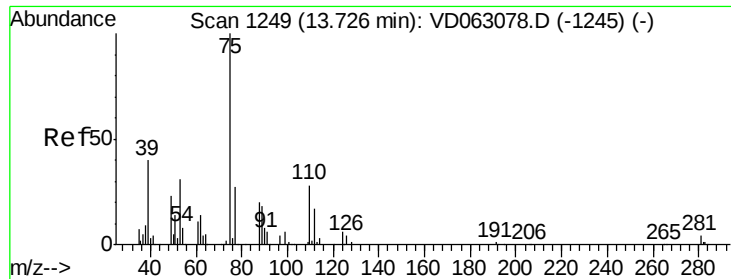
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VD063137.D
Acq: 17 Jul 2019 17:54

Tgt Ion:152 Resp: 363064
Ion Ratio Lower Upper
152 100
115 60.5 28.9 86.8
150 158.4 0.0 313.8



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: 23.278 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.17 min

Lab File: VD063137.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_D

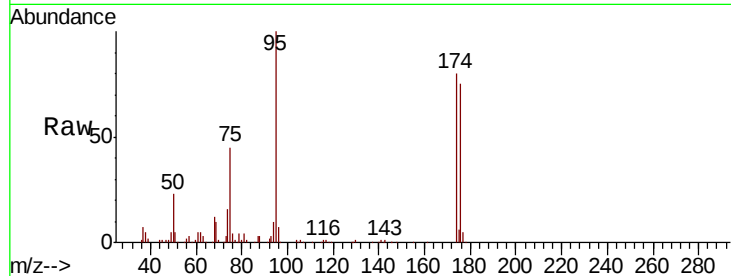
ClientSampleId :

Tot Ion: 75 Resp: 130005

Ion Ratio Lower Upper

75 100

77 1.7 16.3 48.8#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

13.55

120000

100000

80000

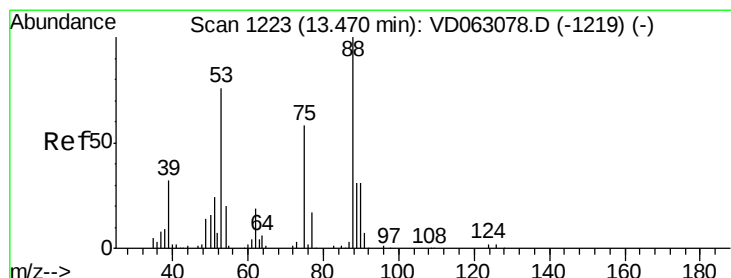
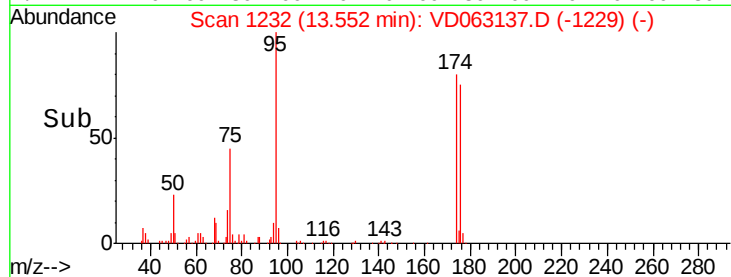
60000

40000

20000

0

Time--> 13.50 13.55 13.60 13.65



#81

trans-1,4-Dichloro-2-butene

Concen: 105.198 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD063137.D

Acq: 17 Jul 2019 17:54

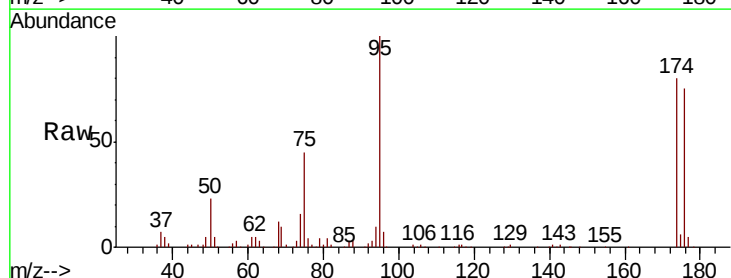
Tgt Ion: 75 Resp: 154718

Ion Ratio Lower Upper

75 100

53 0.0 104.4 156.6#

89 0.0 43.1 64.7#



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

150000

100000

50000

0

Time--> 13.50 13.55 13.60 13.65

