

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD101419\
 Data File : VD063957.D
 Acq On : 14 Oct 2019 15:55
 Operator : VA/SY
 Sample : K5352-06
 Misc : 4.47G/5.00ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 14 17:08:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 05 03:51:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	153893	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	273519	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	274904	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	130036	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.34	65	85904	57.34	ug/l	0.00
Spiked Amount			Recovery	=	114.68%	
35) Dibromofluoromethane	7.92	113	84106	50.32	ug/l	0.00
Spiked Amount			Recovery	=	100.64%	
50) Toluene-d8	10.34	98	353366	52.08	ug/l	0.00
Spiked Amount			Recovery	=	104.16%	
62) 4-Bromofluorobenzene	12.63	95	110971	47.07	ug/l	0.00
Spiked Amount			Recovery	=	94.14%	

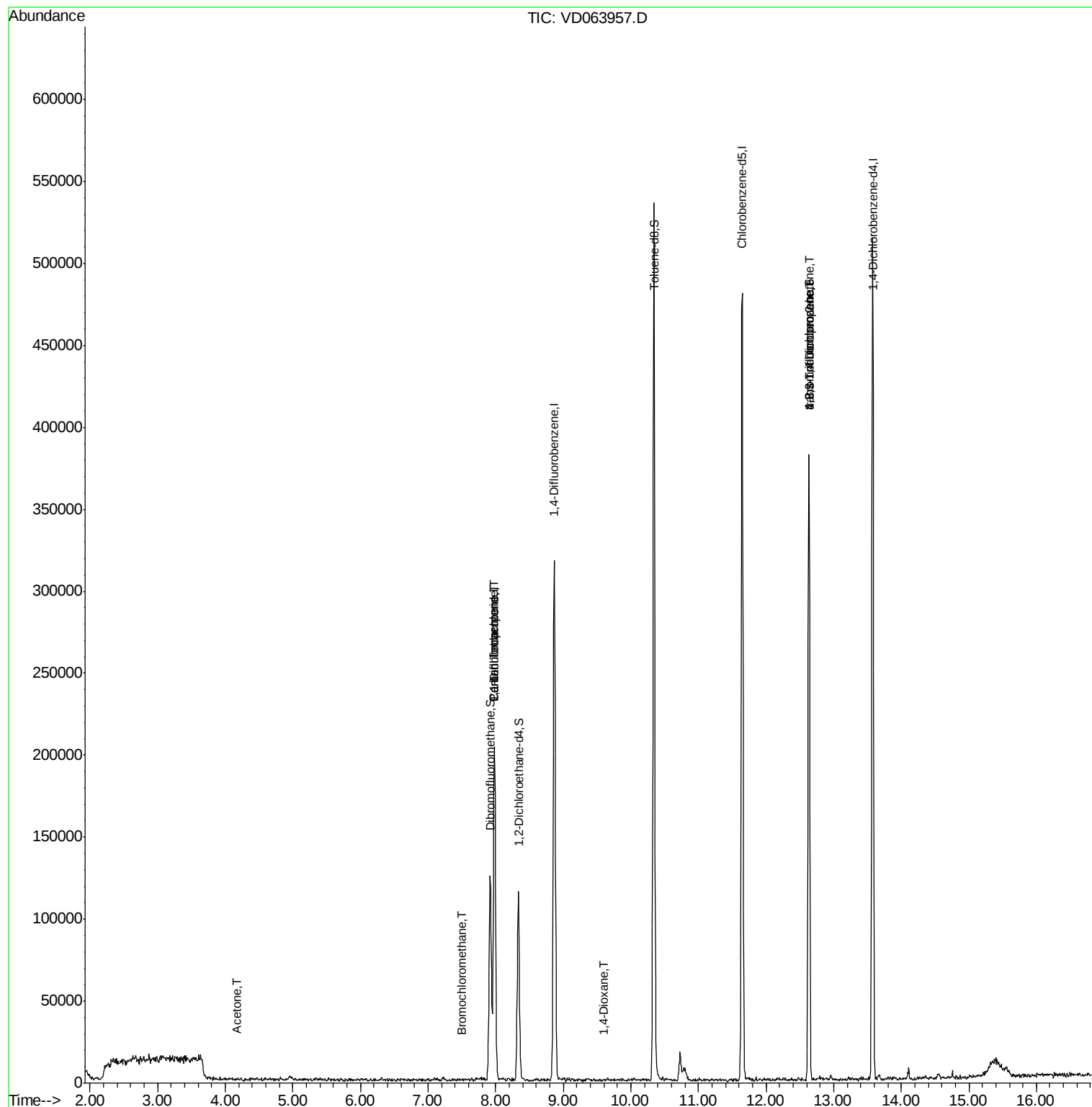
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.20	50	575	Below Cal	#	75
11) Tert butyl alcohol	5.24	59	217	Below Cal	#	71
16) Acetone	4.17	43	513	1.315	ug/l #	42
20) Methylene Chloride	4.97	84	1252	Below Cal	#	46
28) Bromochloromethane	7.50	49	63	1.923	ug/l #	10
31) Cyclohexane	7.98	56	3883	Below Cal	#	43
36) 1,1-Dichloropropene	7.98	75	11851	4.739	ug/l #	48
37) Ethyl Acetate	7.29	43	152	Below Cal	#	37
38) Carbon Tetrachloride	7.98	117	14678	5.808	ug/l #	19
49) 1,4-Dioxane	9.60	88	53	3.887	ug/l #	1
76) 1,2,3-Trichloropropane	12.63	75	60925	69.953	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	60925	123.788	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.43	75	57	Below Cal	#	1

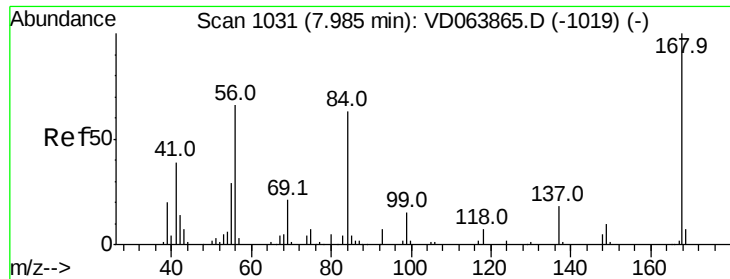
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Oct 05 03:51:17 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD063957.D

Acq: 14 Oct 2019 15:55

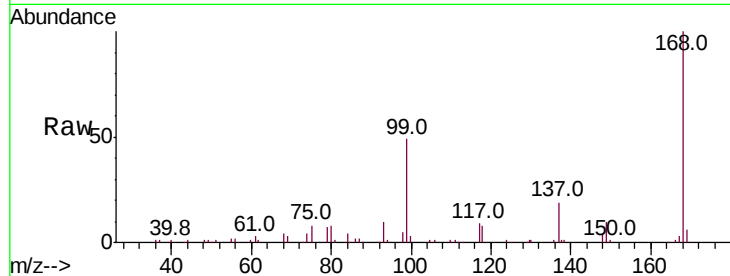
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 153893

Ion Ratio Lower Upper

168 100

99 49.2 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

80000

60000

40000

20000

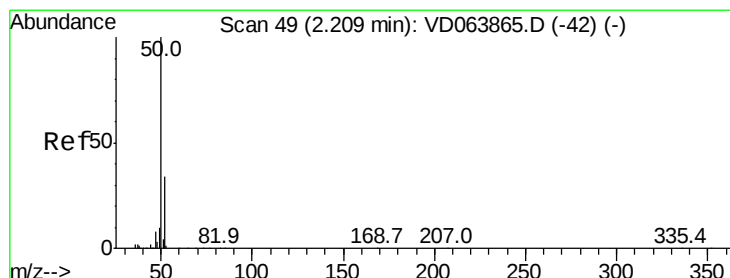
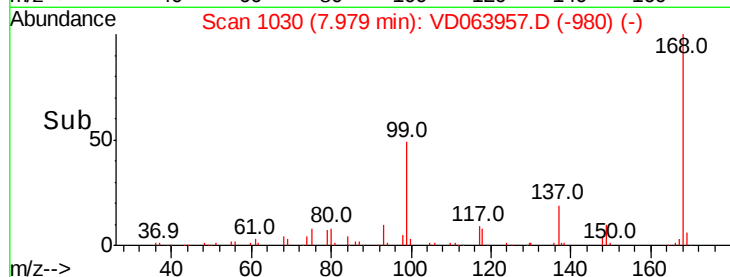
0

Time-->

7.90

8.00

8.10



#3

Chloromethane

Concen: Below Cal

RT: 2.20 min Scan# 48

Delta R.T. -0.01 min

Lab File: VD063957.D

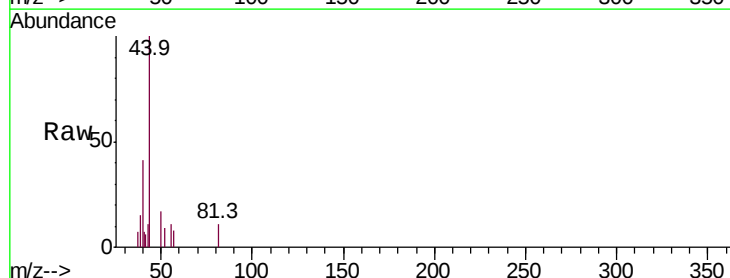
Acq: 14 Oct 2019 15:55

Tgt Ion: 50 Resp: 575

Ion Ratio Lower Upper

50 100

52 49.1 27.5 41.3#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

2.20

500

400

300

200

100

0

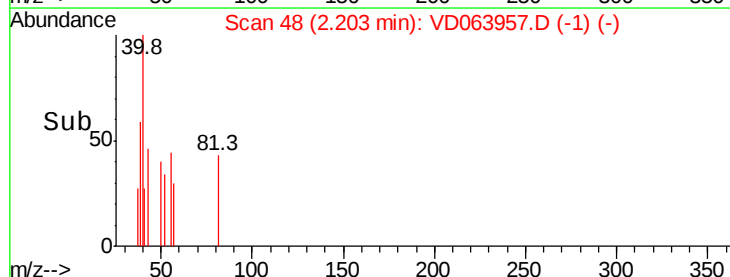
Time-->

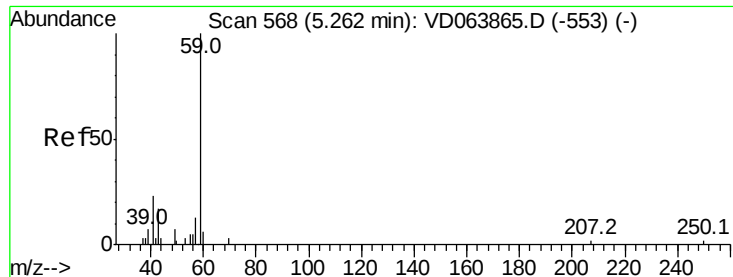
2.18

2.20

2.22

2.24



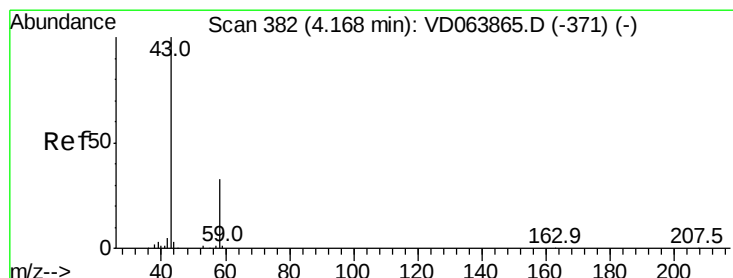
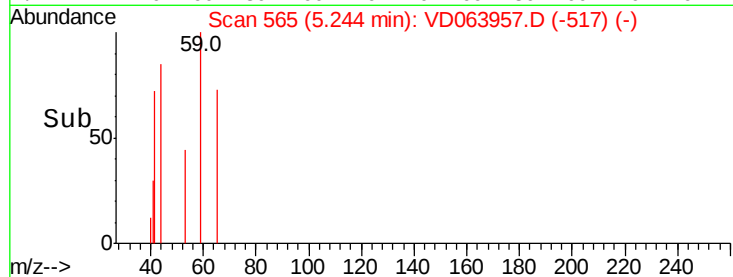
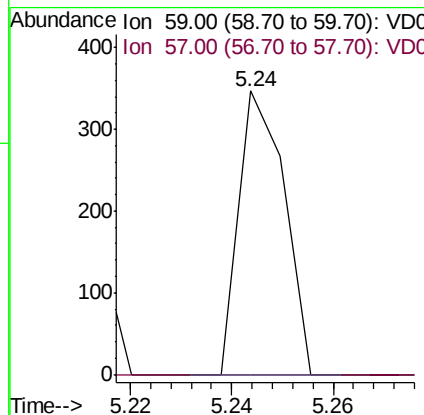
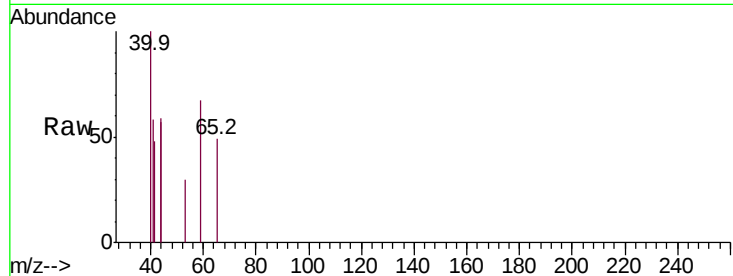


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.24 min Scan# 565
 Delta R.T. -0.02 min
 Lab File: VD063957.D
 Acq: 14 Oct 2019 15:55

Instrument :
 MSVOA_D
 ClientSampleId :

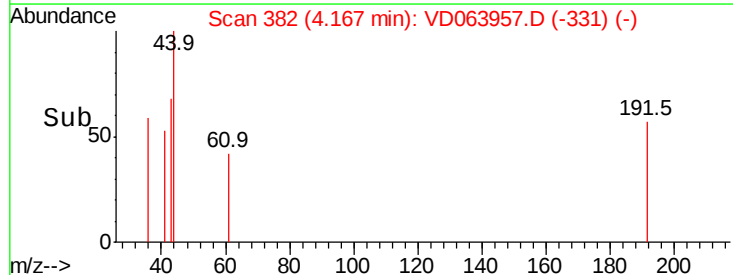
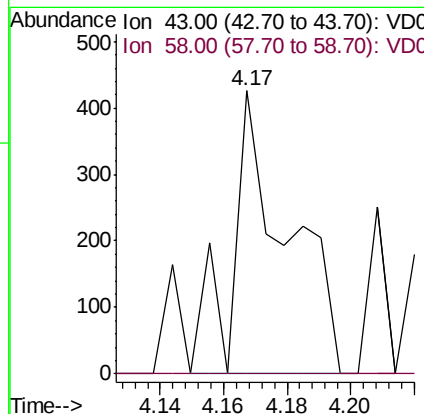
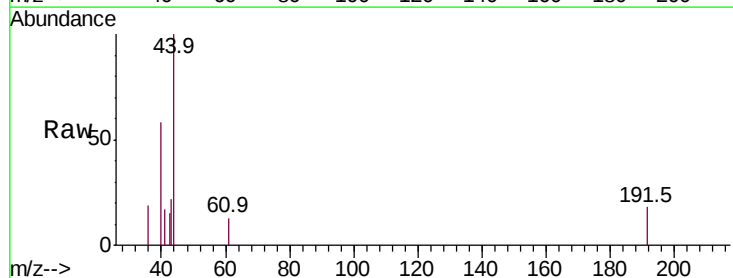
Tot Ion: 59 Resp: 217
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.8 13.2#

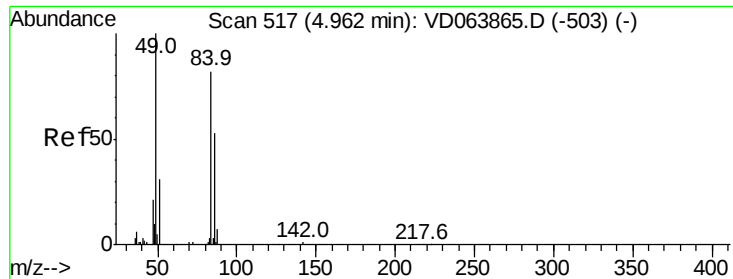


#16

Acetone
 Concen: 1.315 ug/l
 RT: 4.17 min Scan# 382
 Delta R.T. -0.00 min
 Lab File: VD063957.D
 Acq: 14 Oct 2019 15:55

Tgt Ion: 43 Resp: 513
 Ion Ratio Lower Upper
 43 100
 58 0.0 26.2 39.4#

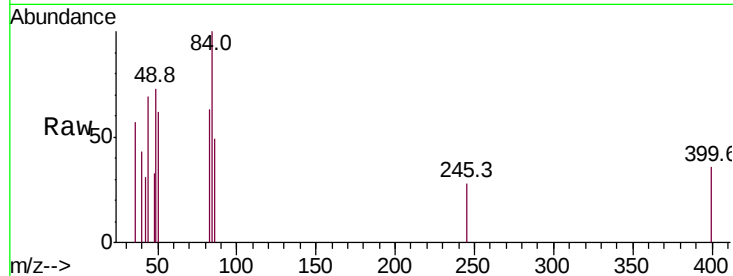




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.97 min Scan# 519
Delta R.T. 0.01 min
Lab File: VD063957.D
Acq: 14 Oct 2019 15:55

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
84	100		
49	36.3	97.3	145.9#
51	62.2	30.1	45.1#
86	49.0	51.4	77.2#



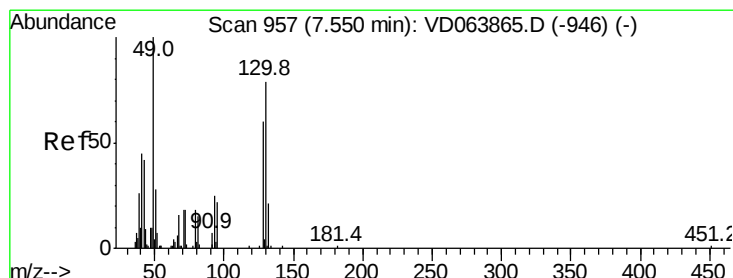
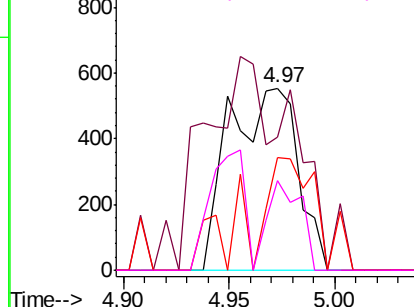
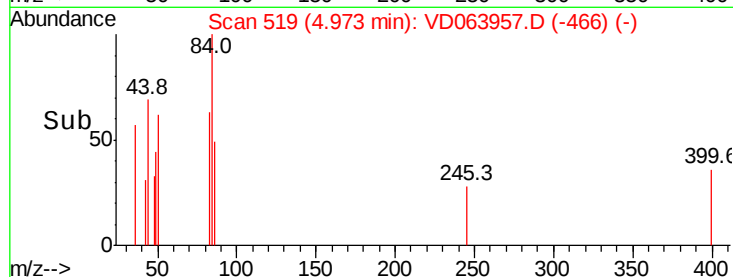
Abundance

Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

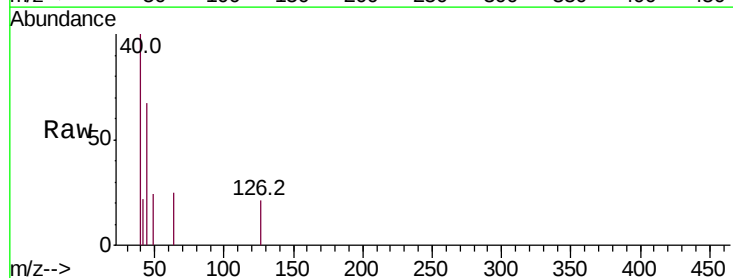
Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC



#28
Bromochloromethane
Concen: 1.923 ug/l
RT: 7.50 min Scan# 949
Delta R.T. -0.05 min
Lab File: VD063957.D
Acq: 14 Oct 2019 15:55

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	5.6
130	0.0	66.8	100.2#

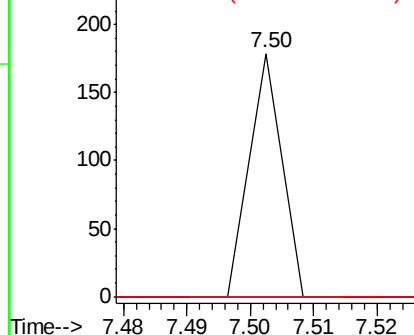
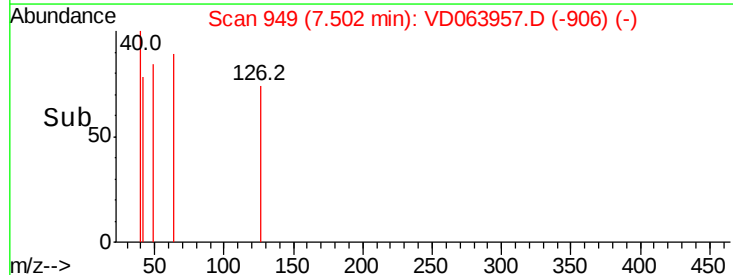


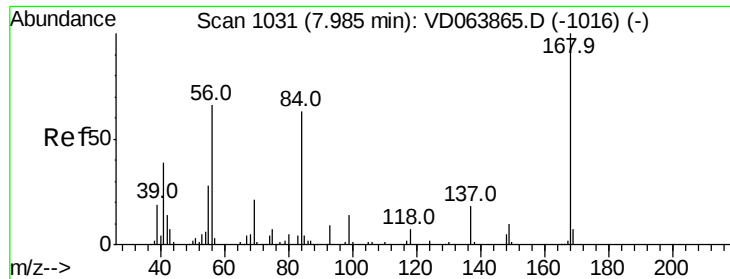
Abundance

Ion 48.90 (48.60 to 49.60): VDC

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

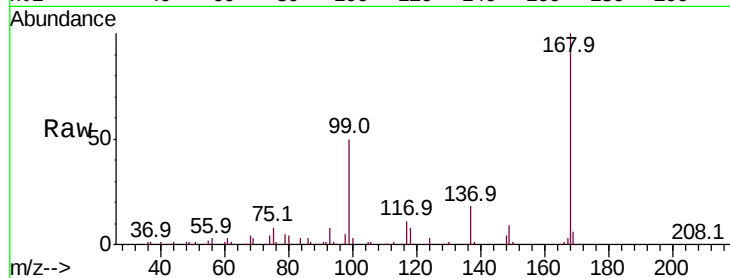




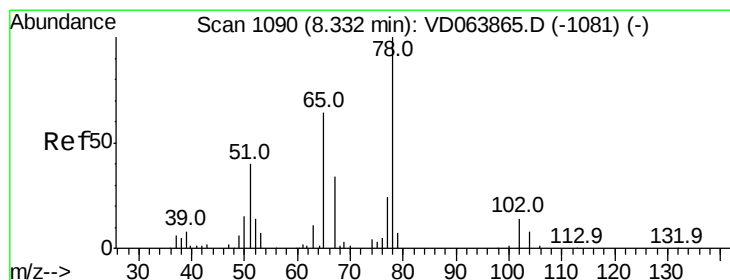
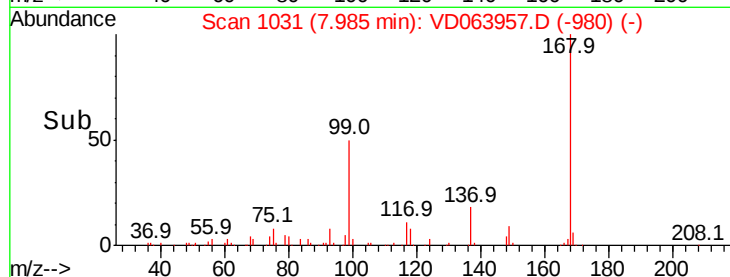
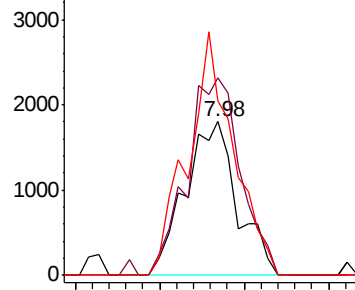
#31
Cyclohexane
Concen: Below Cal
RT: 7.98 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VD063957.D
Acq: 14 Oct 2019 15:55

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 56 Resp: 3883
Ion Ratio Lower Upper
56 100
69 128.5 25.0 37.4#
84 113.3 76.3 114.5

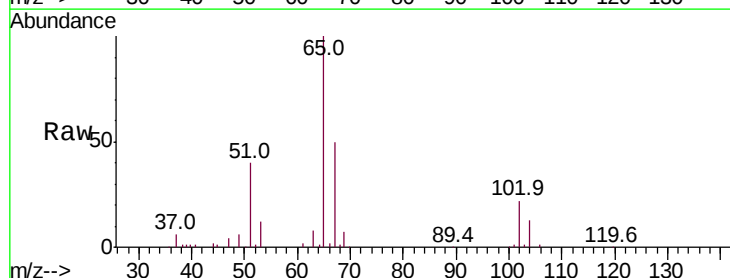


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

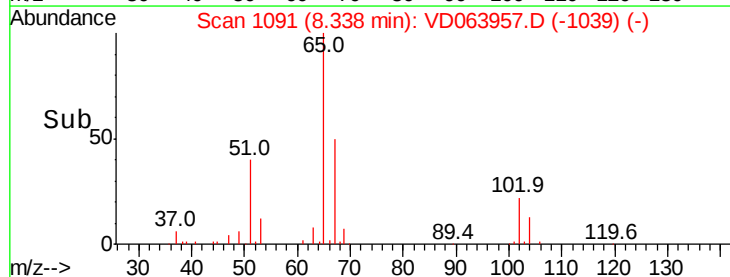
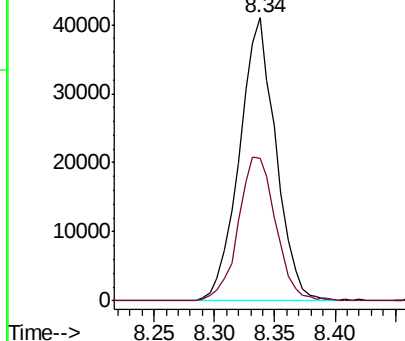


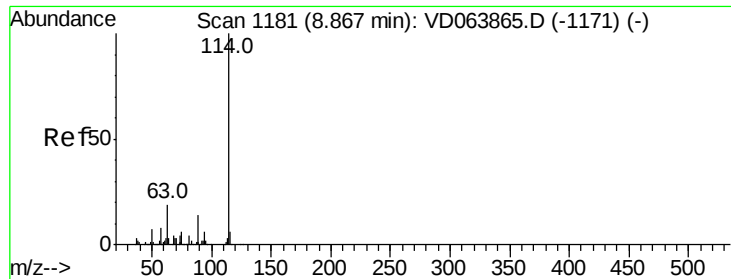
#33
1,2-Dichloroethane-d4
Concen: 57.336 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. 0.01 min
Lab File: VD063957.D
Acq: 14 Oct 2019 15:55

Tgt Ion: 65 Resp: 85904
Ion Ratio Lower Upper
65 100
67 52.5 0.0 106.4



Abundance Ion 64.90 (64.60 to 65.60): VDC
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. -0.00 min

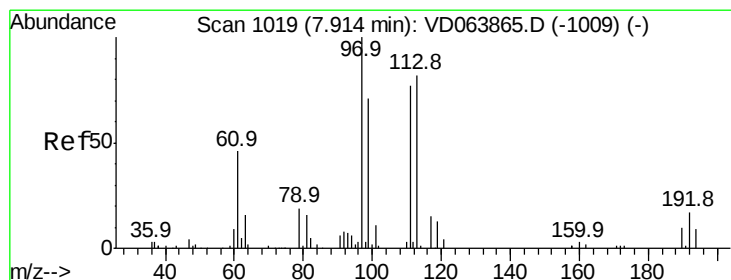
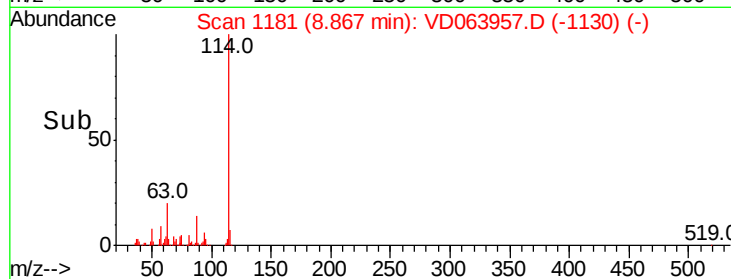
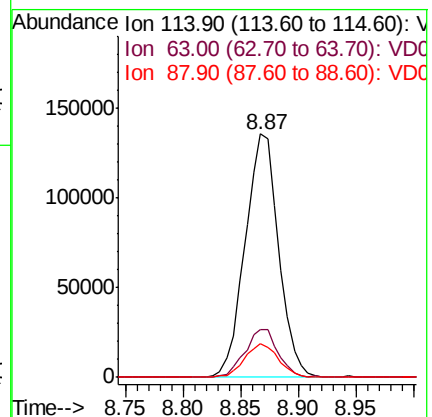
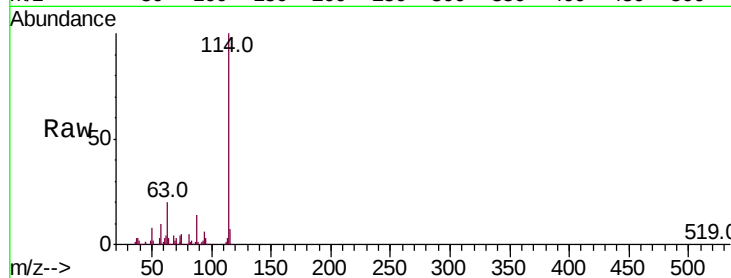
Lab File: VD063957.D

Acq: 14 Oct 2019 15:55

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:114 Resp: 273519

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	38.4
88	13.9	0.0	27.4



#35

Dibromofluoromethane

Concen: 50.316 ug/l

RT: 7.92 min Scan# 1020

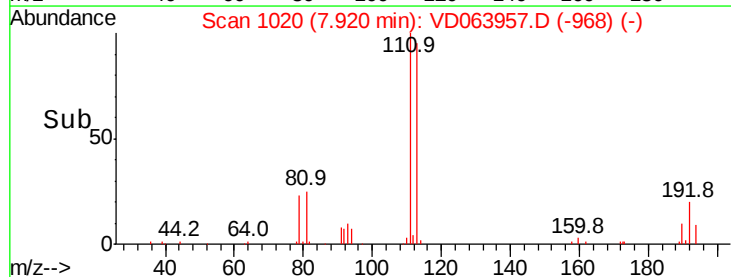
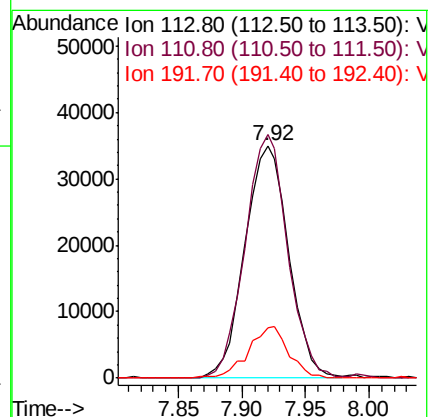
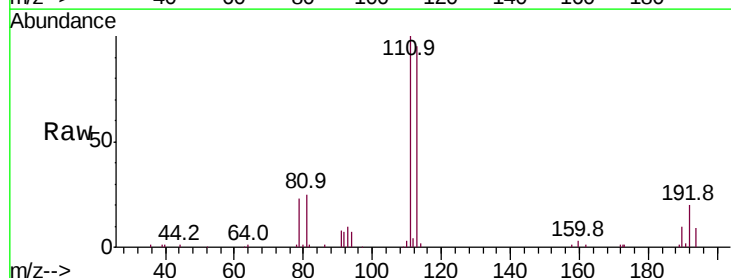
Delta R.T. 0.01 min

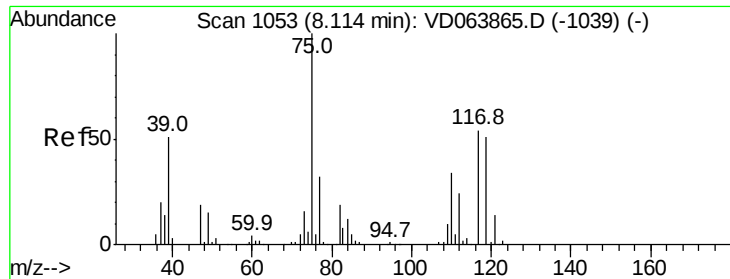
Lab File: VD063957.D

Acq: 14 Oct 2019 15:55

Tgt Ion:113 Resp: 84106

Ion	Ratio	Lower	Upper
113	100		
111	102.2	82.6	123.8
192	20.2	17.1	25.7





#36

1,1-Dichloropropene

Concen: 4.739 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.14 min

Lab File: VD063957.D

Acq: 14 Oct 2019 15:55

Instrument :
MSVOA_D
ClientSampled :

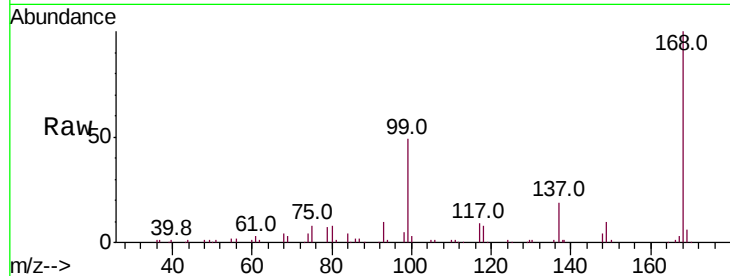
Tot Ion: 75 Resp: 11851

Ion Ratio Lower Upper

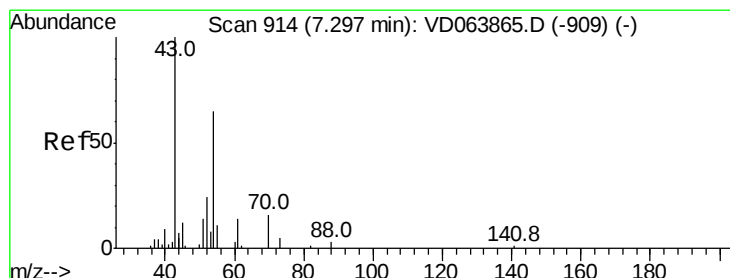
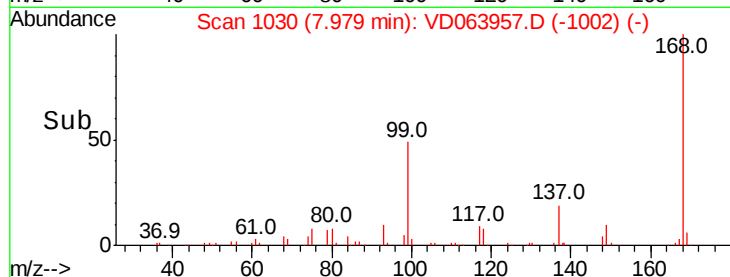
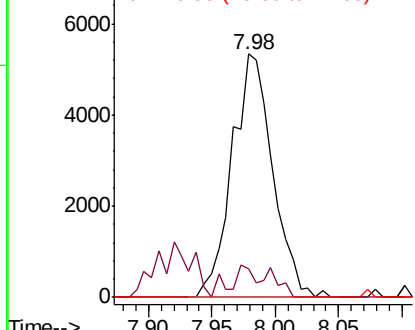
75 100

110 7.6 17.4 52.3#

77 0.0 25.4 38.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC
Ion 109.90 (109.60 to 110.60): VDC
Ion 76.90 (76.60 to 77.60): VDC



#37

Ethyl Acetate

Concen: Below Cal

RT: 7.29 min Scan# 913

Delta R.T. -0.01 min

Lab File: VD063957.D

Acq: 14 Oct 2019 15:55

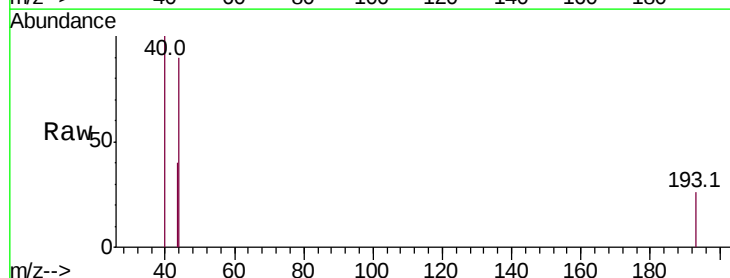
Tgt Ion: 43 Resp: 152

Ion Ratio Lower Upper

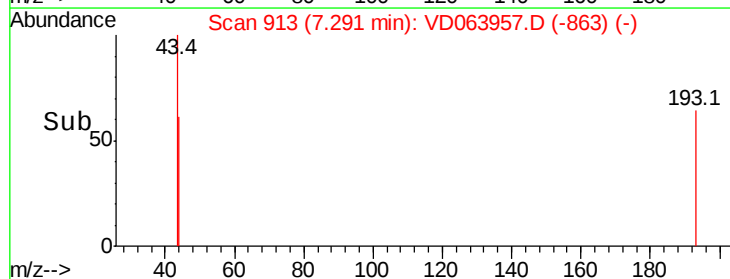
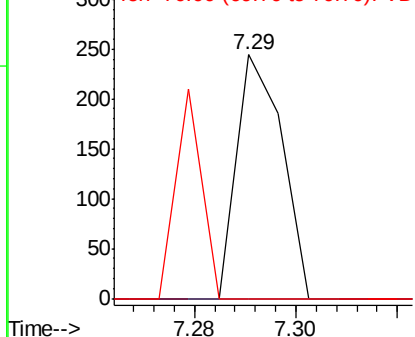
43 100

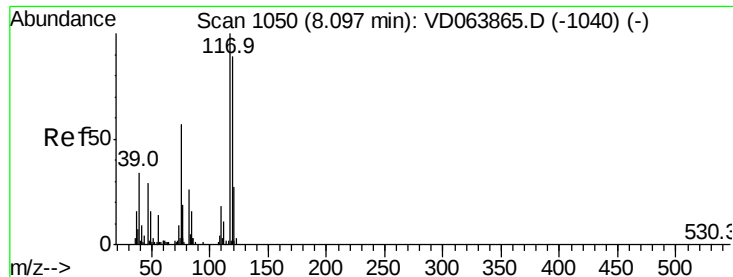
61 0.0 11.5 17.3#

70 48.7 8.2 12.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 5.808 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD063957.D

Acq: 14 Oct 2019 15:55

Instrument :

MSVOA_D

ClientSampleId :

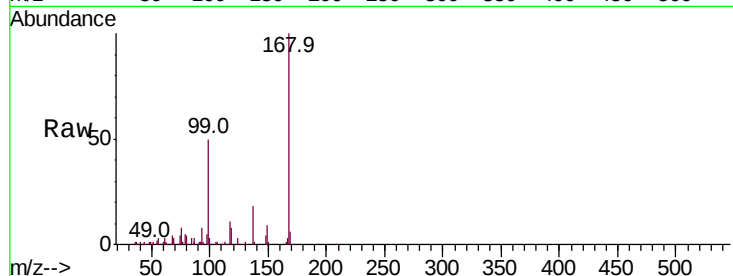
Tot Ion:117 Resp: 14678

Ion Ratio Lower Upper

117 100

119 4.3 70.8 106.2#

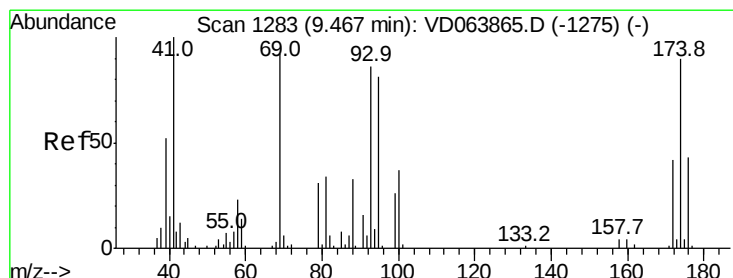
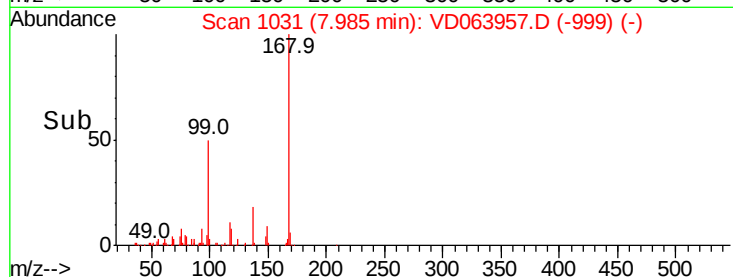
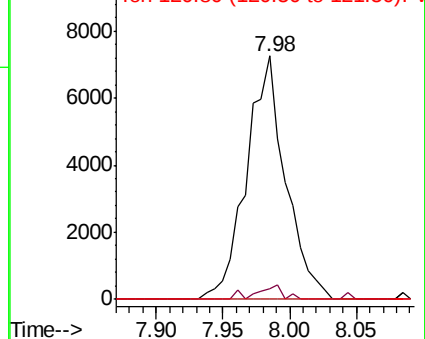
121 0.0 21.4 32.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 3.887 ug/l

RT: 9.60 min Scan# 1306

Delta R.T. 0.13 min

Lab File: VD063957.D

Acq: 14 Oct 2019 15:55

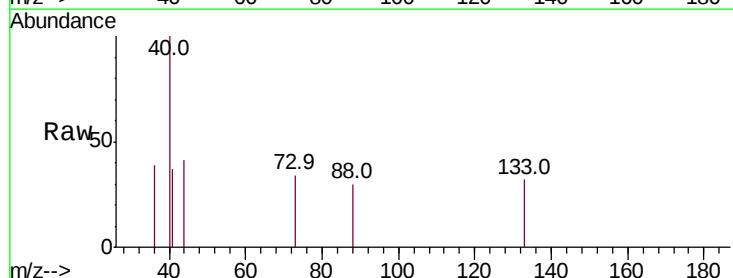
Tgt Ion: 88 Resp: 53

Ion Ratio Lower Upper

88 100

43 141.5 27.6 41.4#

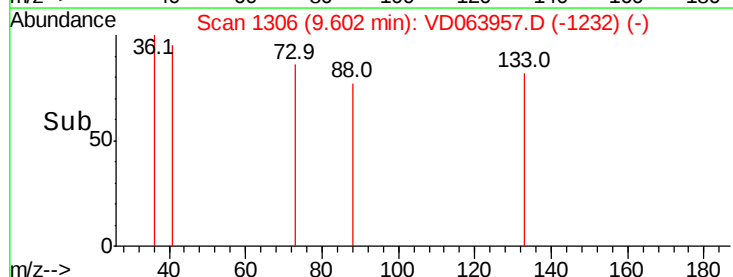
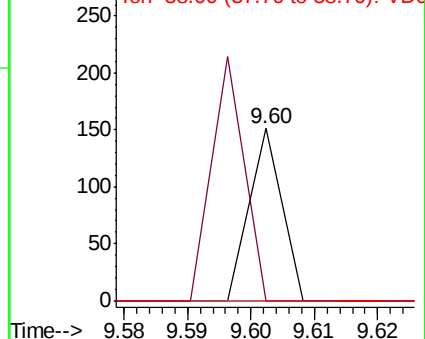
58 0.0 54.1 81.1#

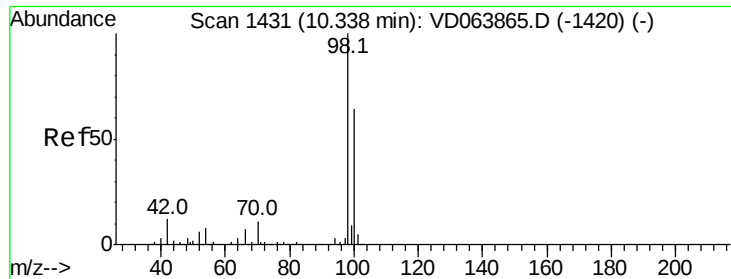


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#50

Toluene-d8

Concen: 52.084 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.01 min

Lab File: VD063957.D

Acq: 14 Oct 2019 15:55

Instrument :

MSVOA_D

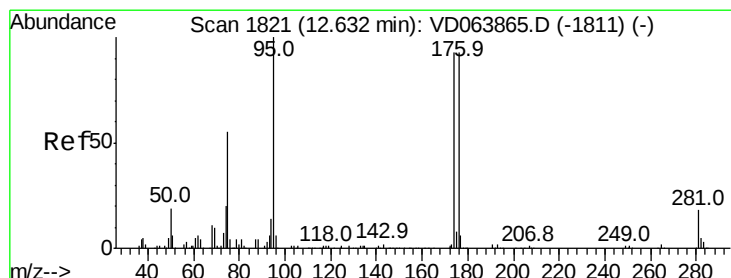
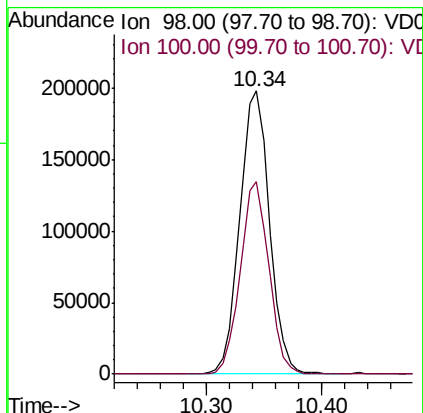
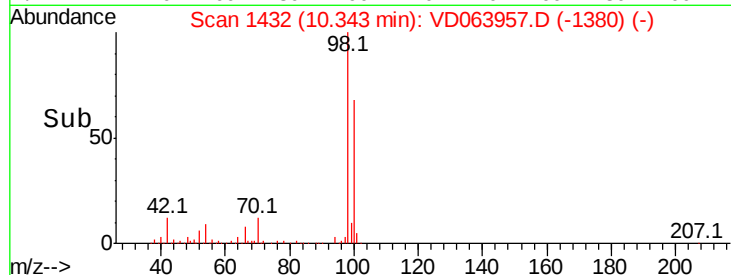
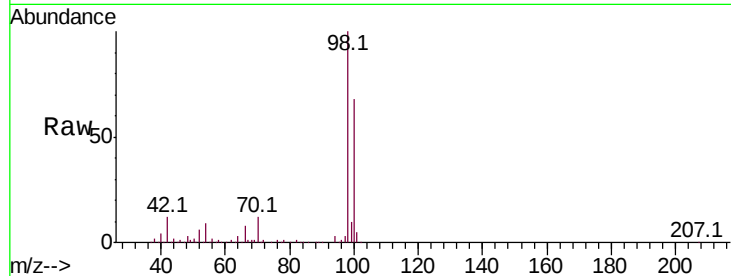
ClientSampleId :

Tot Ion: 98 Resp: 353366

Ion Ratio Lower Upper

98 100

100 65.7 52.1 78.1



#62

4-Bromofluorobenzene

Concen: 47.069 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.00 min

Lab File: VD063957.D

Acq: 14 Oct 2019 15:55

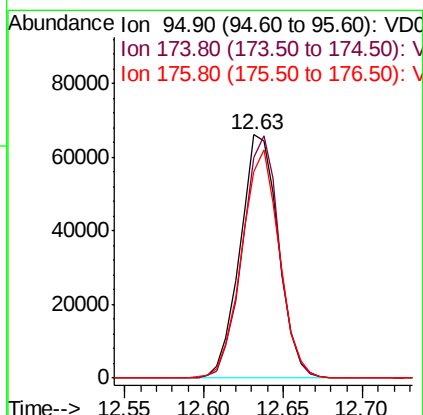
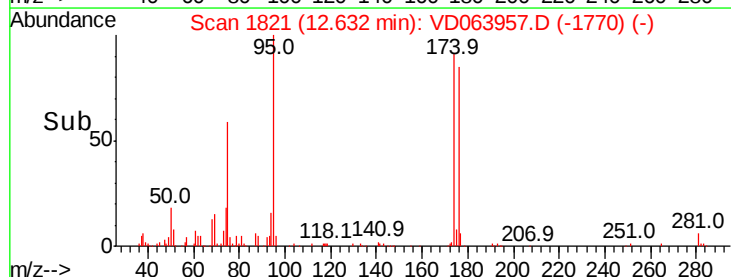
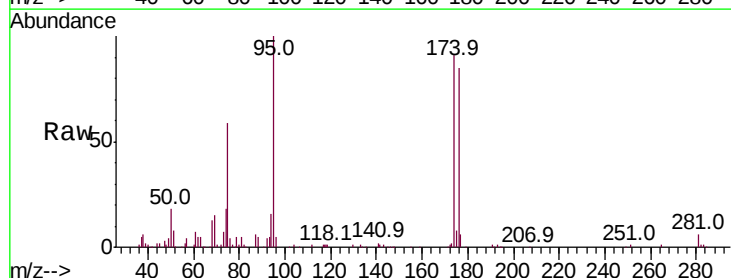
Tgt Ion: 95 Resp: 110971

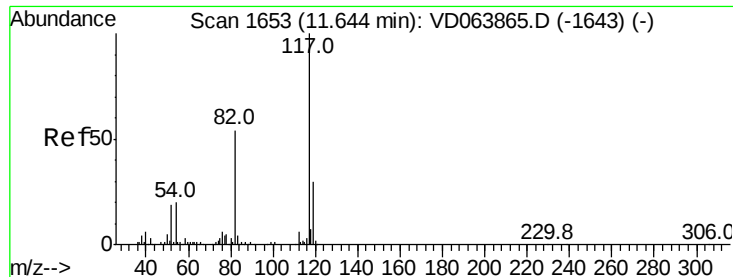
Ion Ratio Lower Upper

95 100

174 95.5 0.0 186.4

176 92.2 0.0 184.2

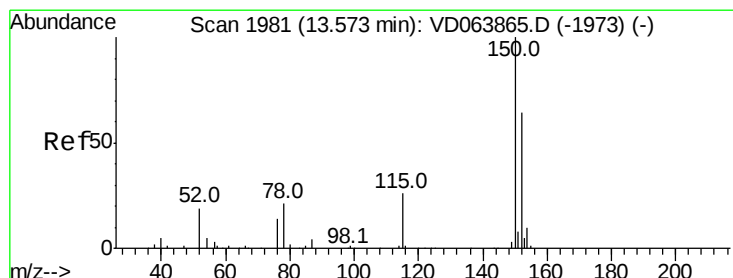
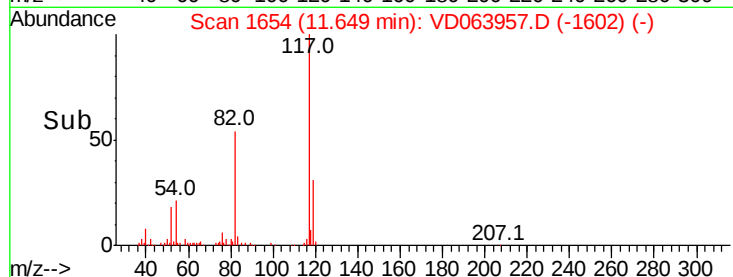
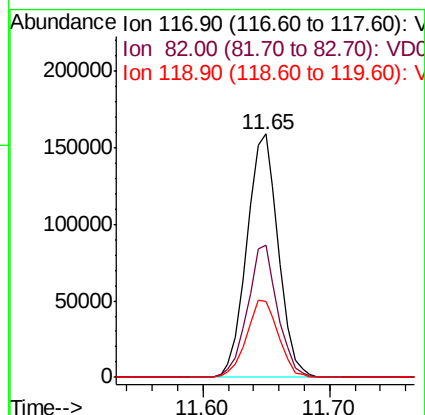
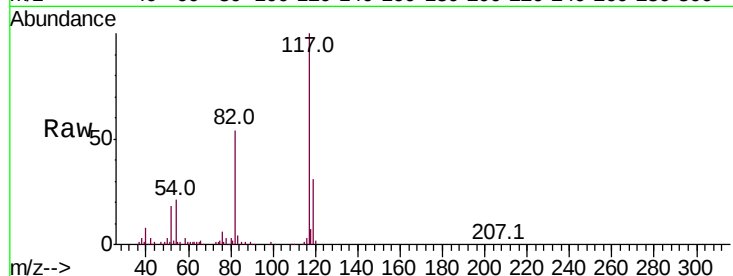




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.01 min
Lab File: VD063957.D
Acq: 14 Oct 2019 15:55

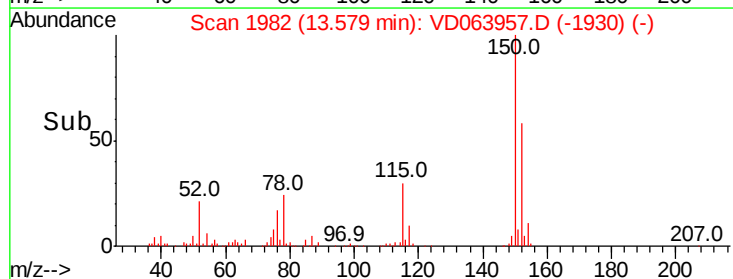
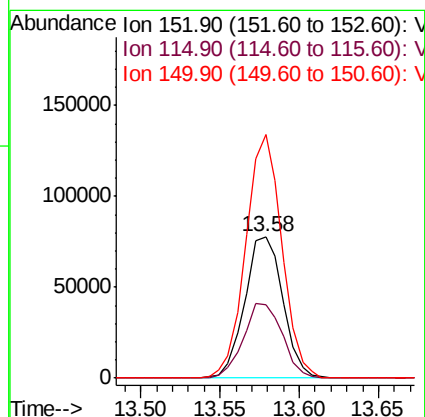
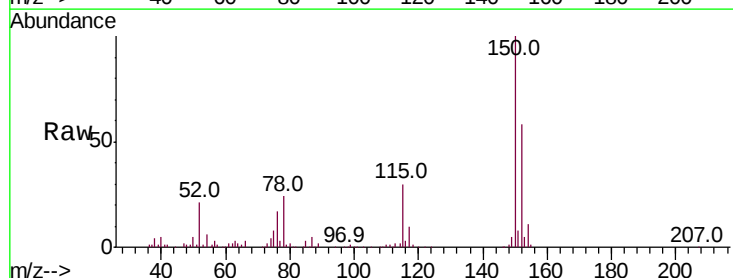
Instrument :
MSVOA_D
ClientSampled :

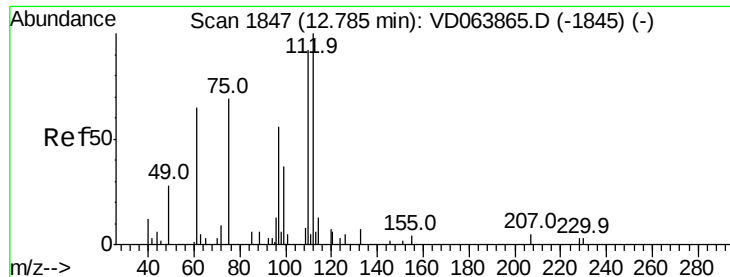
Tot Ion:117 Resp: 274904
Ion Ratio Lower Upper
117 100
82 54.4 42.8 64.2
119 31.1 24.4 36.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.01 min
Lab File: VD063957.D
Acq: 14 Oct 2019 15:55

Tgt Ion:152 Resp: 130036
Ion Ratio Lower Upper
152 100
115 54.2 25.9 77.7
150 162.9 0.0 344.2





#76

1,2,3-Trichloropropane

Concen: 69.953 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD063957.D

Acq: 14 Oct 2019 15:55

Instrument :

MSVOA_D

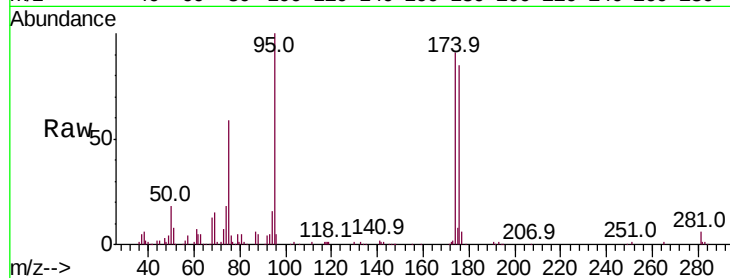
ClientSampleId :

Tot Ion: 75 Resp: 60925

Ion Ratio Lower Upper

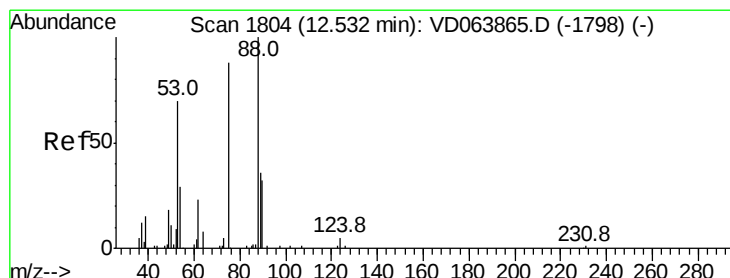
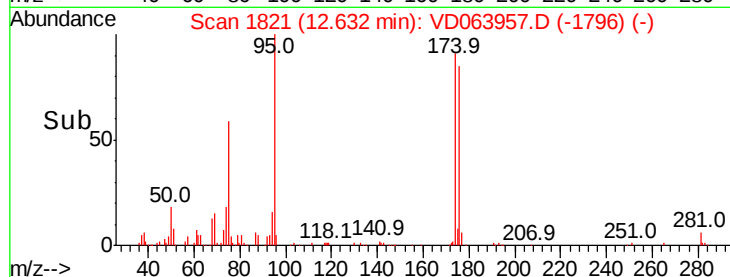
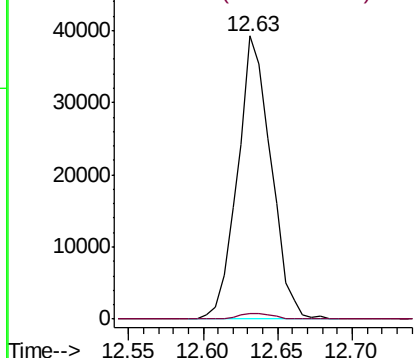
75 100

77 1.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 123.788 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD063957.D

Acq: 14 Oct 2019 15:55

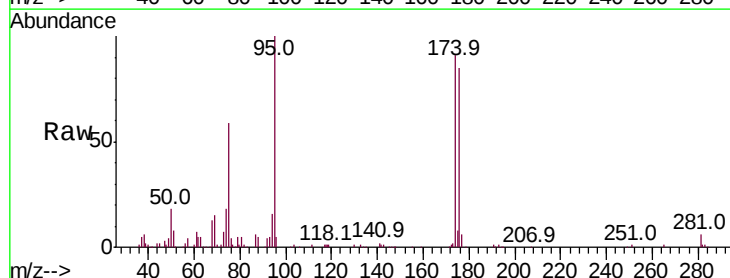
Tgt Ion: 75 Resp: 60925

Ion Ratio Lower Upper

75 100

53 0.1 75.0 112.6#

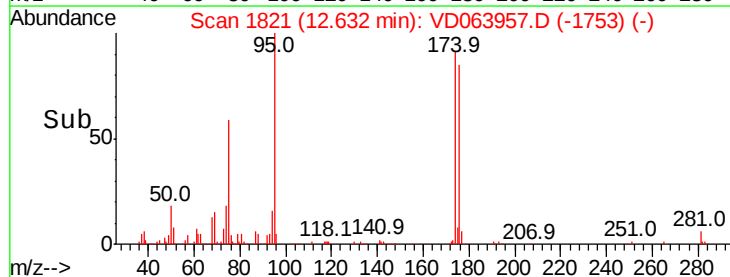
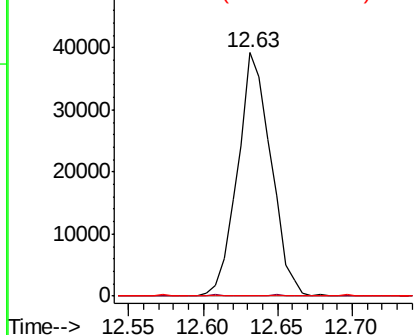
89 0.0 38.2 57.4#

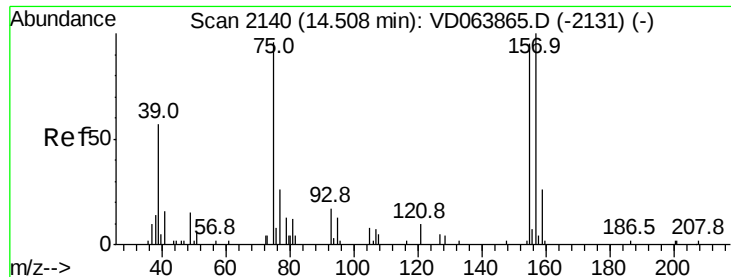


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.43 min Scan# 2127

Delta R.T. -0.08 min

Lab File: VD063957.D

Acq: 14 Oct 2019 15:55

Instrument :

MSVOA_D

ClientSampleId :

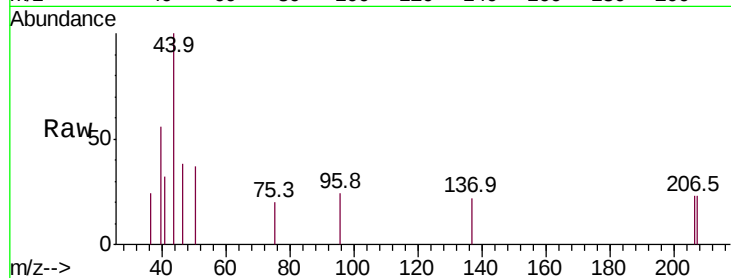
Tot Ion: 75 Resp: 57

Ion Ratio Lower Upper

75 100

155 0.0 43.9 131.6#

157 0.0 56.0 167.9#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

