

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD101019\
 Data File : VD063917.D
 Acq On : 10 Oct 2019 18:31
 Operator : VA/SY
 Sample : K5297-08
 Misc : 7.58G/MSVOA D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 11 07:41:06 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	159391	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	283659	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	271419	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	128850	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	87294	56.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.50%	
35) Dibromofluoromethane	7.92	113	91082	52.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.08%	
50) Toluene-d8	10.34	98	368799	52.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.84%	
62) 4-Bromofluorobenzene	12.63	95	108118	44.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.44%	

Target Compounds

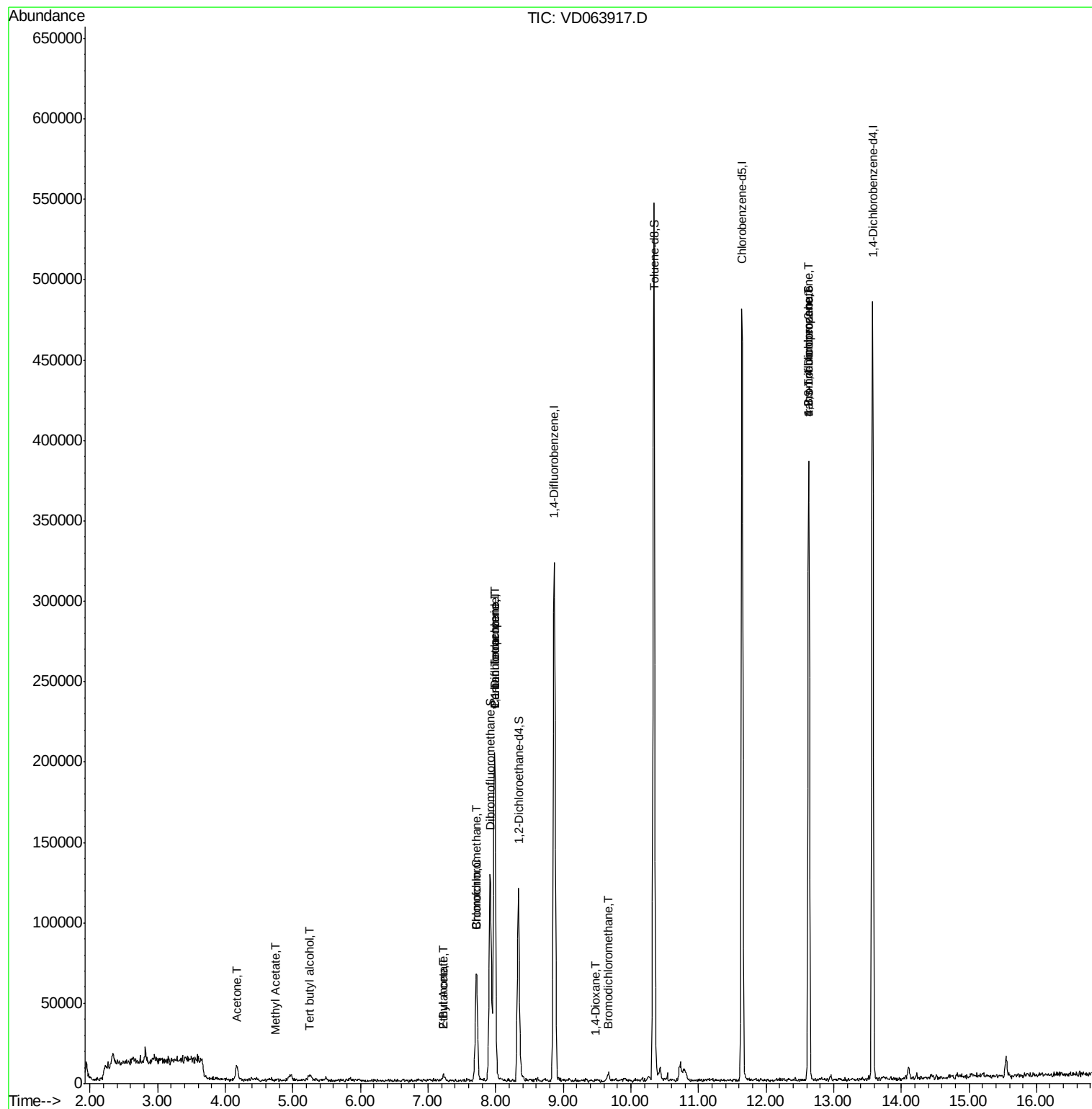
					Qvalue	
3) Chloromethane	2.21	50	867	Below Cal		89
11) Tert butyl alcohol	5.26	59	6189	51.025 ug/l #		75
16) Acetone	4.18	43	15869	39.278 ug/l #		78
18) Methyl Acetate	4.73	43	958	1.212 ug/l #		70
20) Methylene Chloride	4.96	84	1244	Below Cal #		75
25) 2-Butanone	7.23	43	6261	13.076 ug/l		96
28) Bromochloromethane	7.71	49	5114	6.499 ug/l #		10
30) Chloroform	7.71	83	62124	20.473 ug/l		97
31) Cyclohexane	7.98	56	4790	Below Cal #		53
36) 1,1-Dichloropropene	7.98	75	11974	4.617 ug/l #		52
37) Ethyl Acetate	7.23	43	6261	2.208 ug/l #		68
38) Carbon Tetrachloride	7.98	117	16556	6.317 ug/l #		20
47) Bromodichloromethane	9.66	83	3328	1.248 ug/l #		74
49) 1,4-Dioxane	9.48	88	58	4.101 ug/l #		1
76) 1,2,3-Trichloropropane	12.63	75	61008	70.693 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.63	75	61008	125.098 ug/l #		12
92) 1,2-Dibromo-3-Chloropropan	14.44	75	56	Below Cal #		1

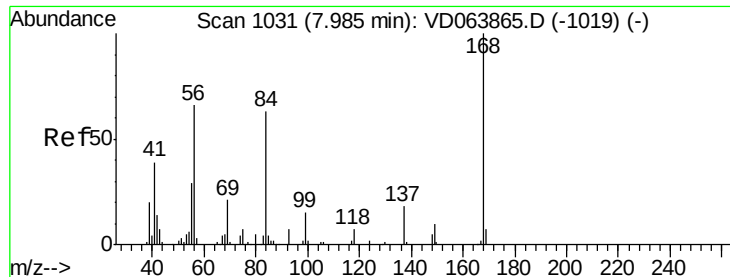
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD101019\
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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# 1031

Delta R.T. -0.00 min

Lab File: VD063917.D

Acq: 10 Oct 2019 18:31

Instrument :

MSVOA_D

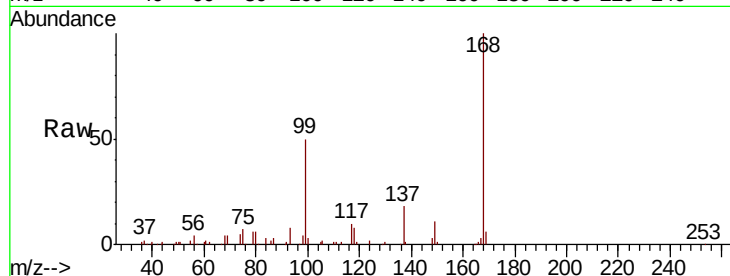
ClientSampleId :

Tot Ion:168 Resp: 159391

Ion Ratio Lower Upper

168 100

99 49.6 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

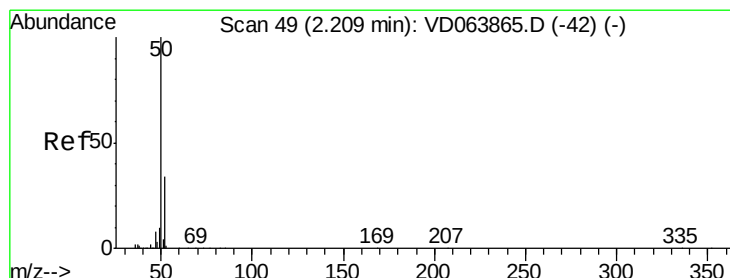
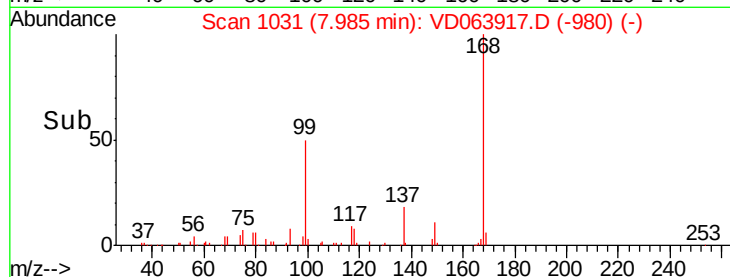
40000

20000

0

7.90 8.00 8.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD063917.D

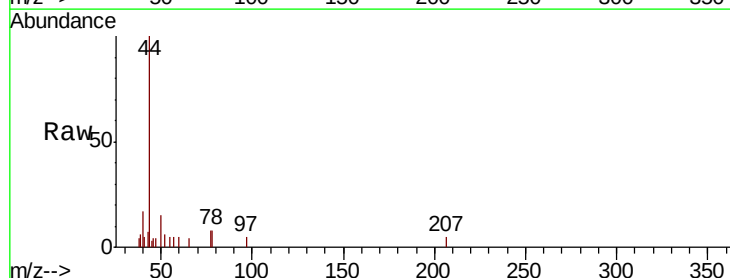
Acq: 10 Oct 2019 18:31

Tgt Ion: 50 Resp: 867

Ion Ratio Lower Upper

50 100

52 40.8 27.5 41.3



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

2.21

800

600

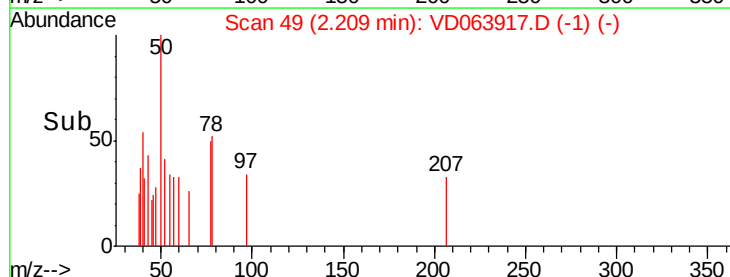
400

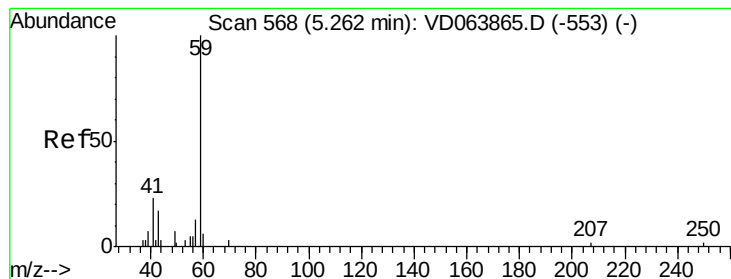
200

0

2.15 2.20 2.25

Time-->



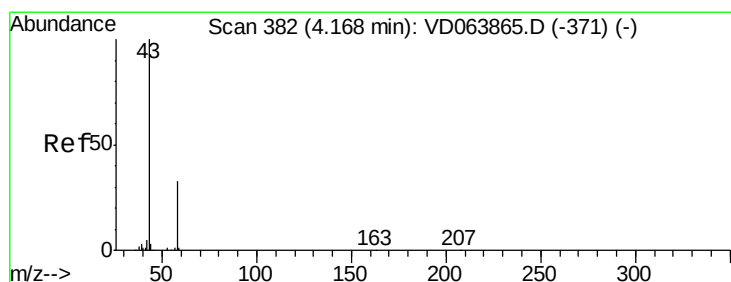
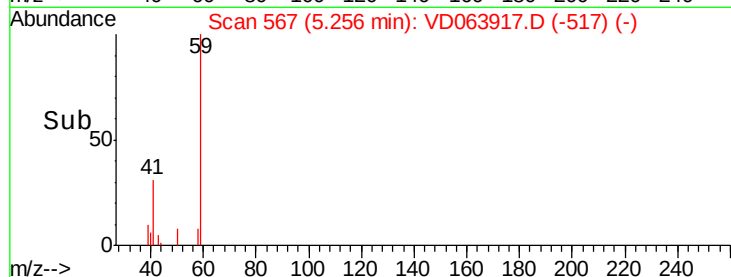
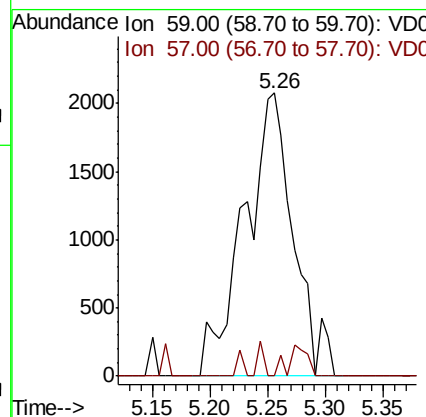
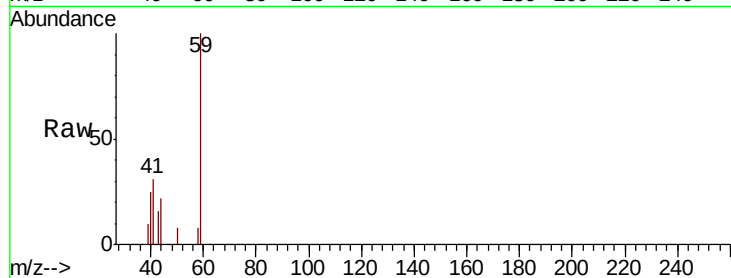


#11

Tert butyl alcohol
 Concen: 51.025 ug/l
 RT: 5.26 min Scan# 567
 Delta R.T. -0.01 min
 Lab File: VD063917.D
 Acq: 10 Oct 2019 18:31

Instrument :
 MSVOA_D
 ClientSampleId :

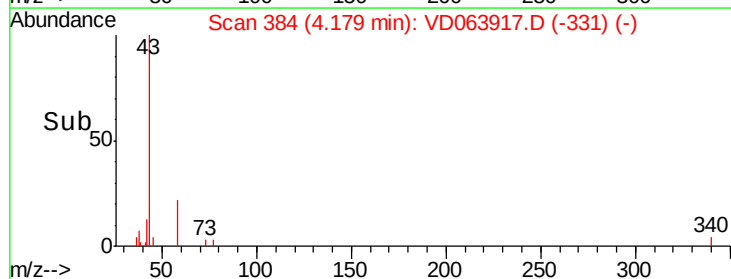
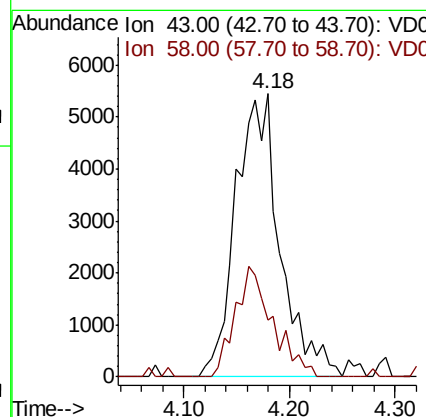
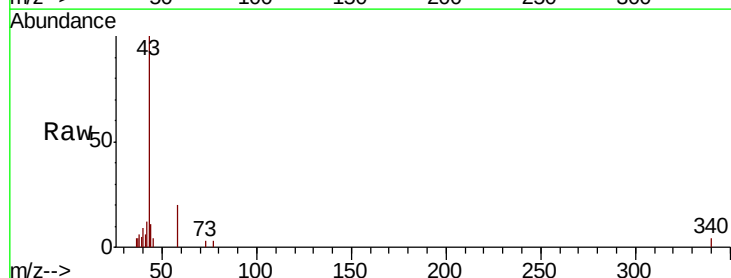
Tot Ion: 59 Resp: 6189
 Ion Ratio Lower Upper
 59 100
 57 1.5 8.8 13.2#

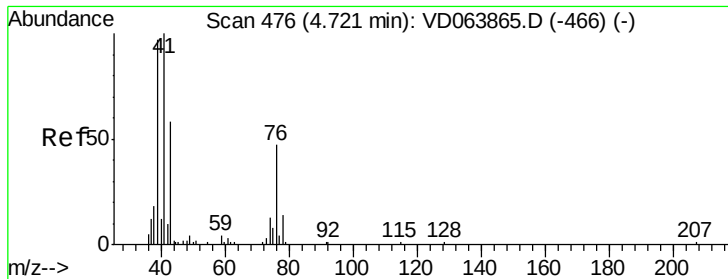


#16

Acetone
 Concen: 39.278 ug/l
 RT: 4.18 min Scan# 384
 Delta R.T. 0.01 min
 Lab File: VD063917.D
 Acq: 10 Oct 2019 18:31

Tgt Ion: 43 Resp: 15869
 Ion Ratio Lower Upper
 43 100
 58 20.2 26.2 39.4#

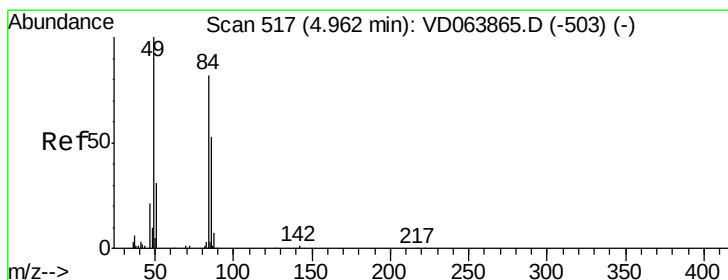
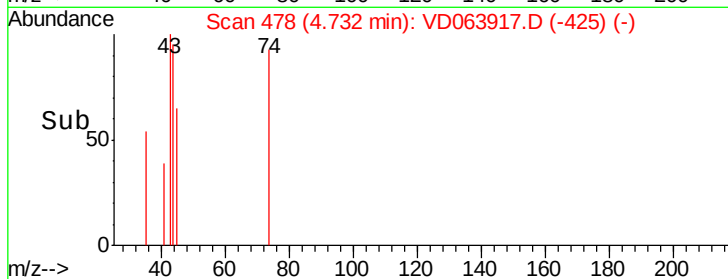
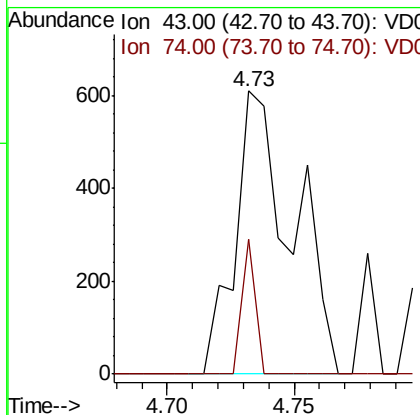
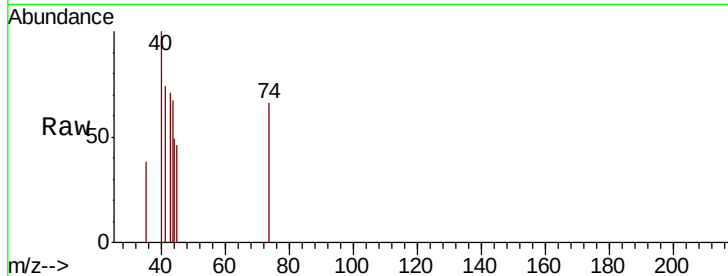




#18
Methyl Acetate
Concen: 1.212 ug/l
RT: 4.73 min Scan# 478
Delta R.T. 0.01 min
Lab File: VD063917.D
Acq: 10 Oct 2019 18:31

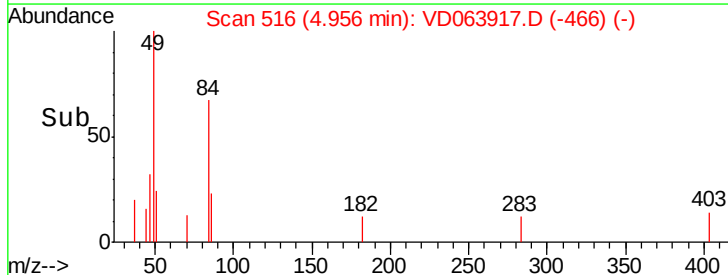
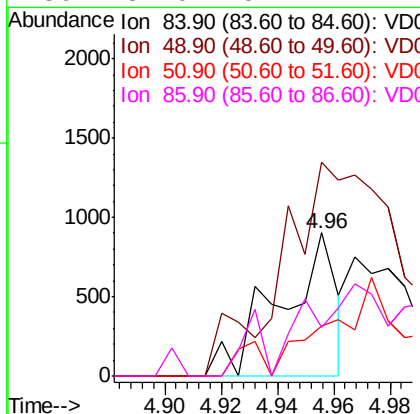
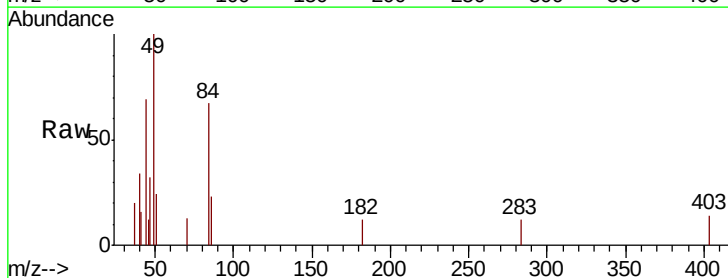
Instrument :
MSVOA_D
ClientSampleId :

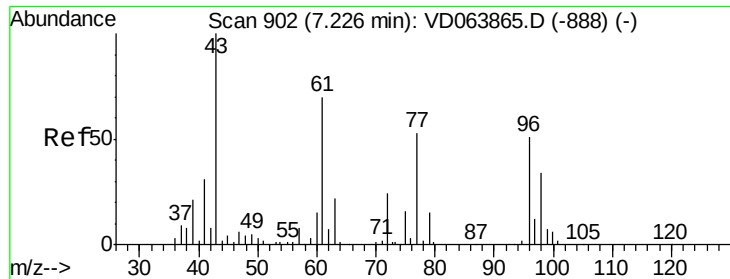
Tot Ion: 43 Resp: 958
Ion Ratio Lower Upper
43 100
74 10.6 20.8 31.2#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.96 min Scan# 516
Delta R.T. -0.01 min
Lab File: VD063917.D
Acq: 10 Oct 2019 18:31

Tgt Ion: 84 Resp: 1244
Ion Ratio Lower Upper
84 100
49 149.4 97.3 145.9#
51 35.4 30.1 45.1
86 34.0 51.4 77.2#

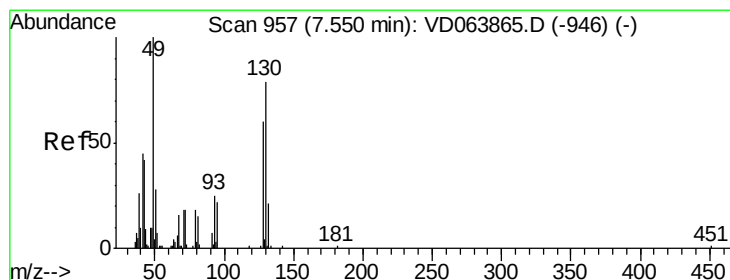
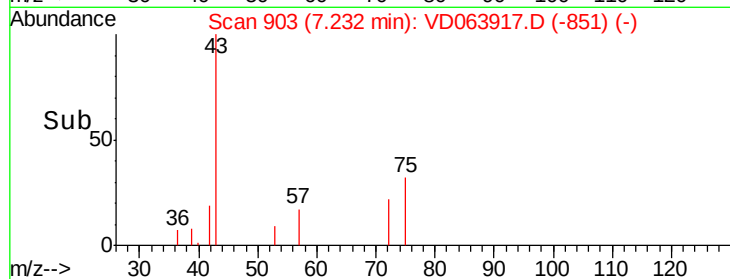
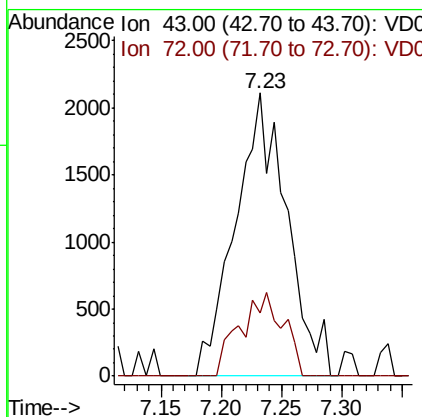
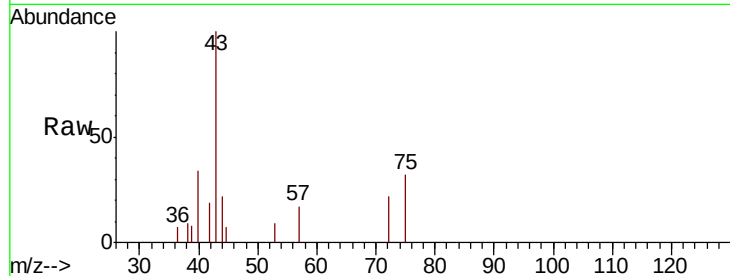




#25
2-Butanone
Concen: 13.076 ug/l
RT: 7.23 min Scan# 903
Delta R.T. 0.01 min
Lab File: VD063917.D
Acq: 10 Oct 2019 18:31

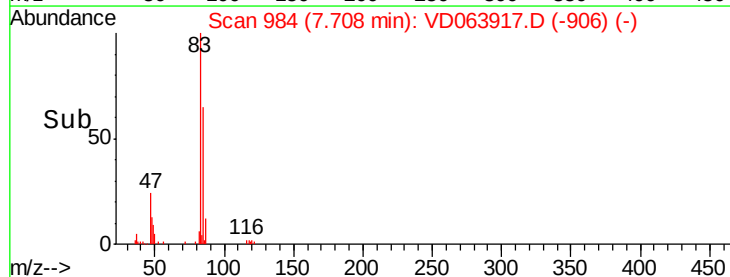
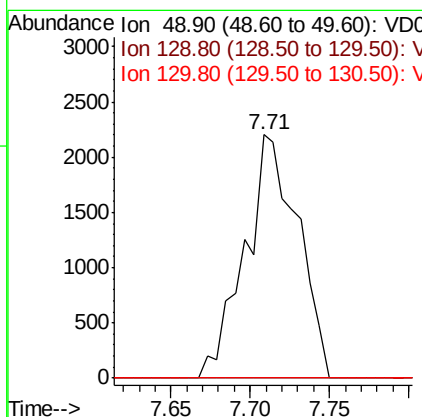
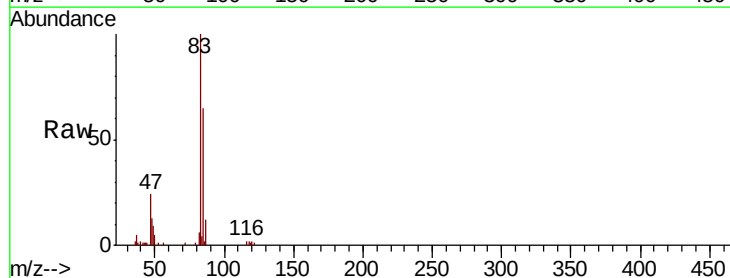
Instrument :
MSVOA_D
ClientSampled :

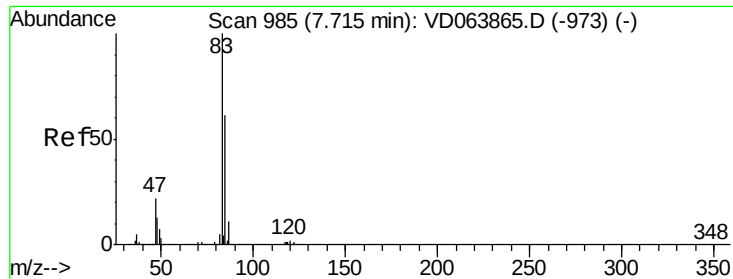
Tot Ion: 43 Resp: 6261
Ion Ratio Lower Upper
43 100
72 22.2 19.2 28.8



#28
Bromochloromethane
Concen: 6.499 ug/l
RT: 7.71 min Scan# 984
Delta R.T. 0.16 min
Lab File: VD063917.D
Acq: 10 Oct 2019 18:31

Tgt Ion: 49 Resp: 5114
Ion Ratio Lower Upper
49 100
129 0.0 0.0 5.6
130 0.0 66.8 100.2#

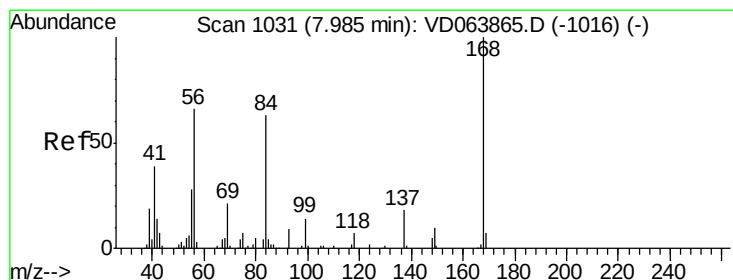
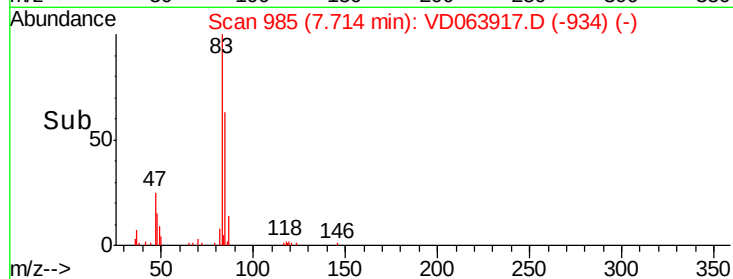
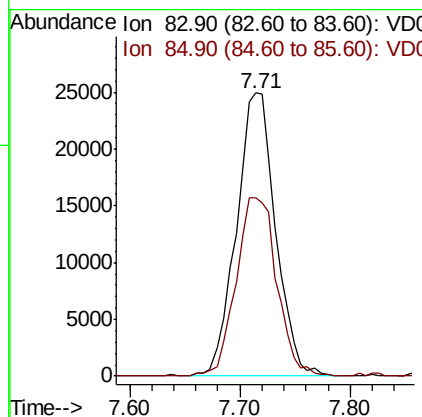
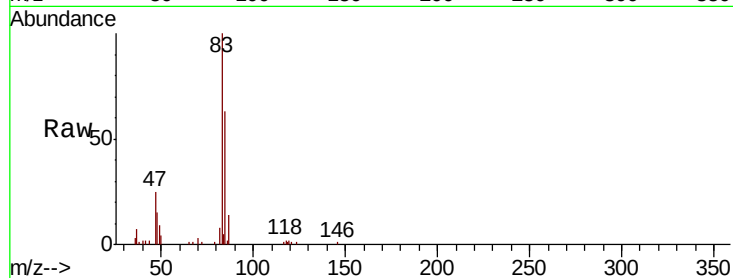




#30
Chloroform
Concen: 20.473 ug/l
RT: 7.71 min Scan# 985
Delta R.T. -0.00 min
Lab File: VD063917.D
Acq: 10 Oct 2019 18:31

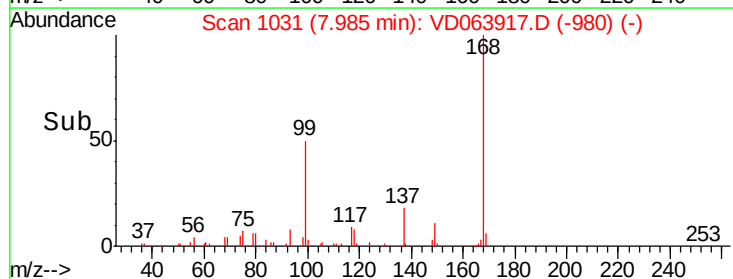
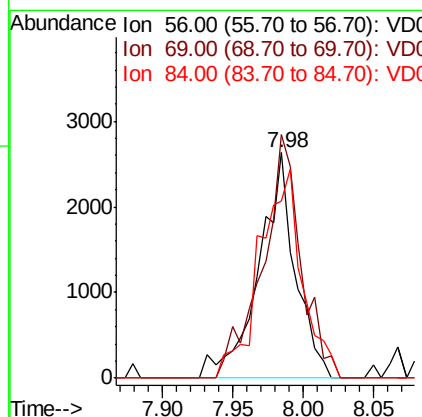
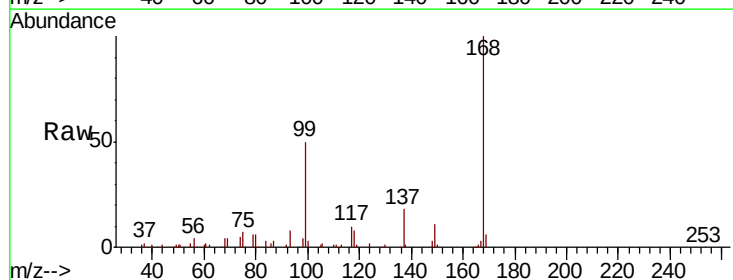
Instrument :
MSVOA_D
ClientSampleId :

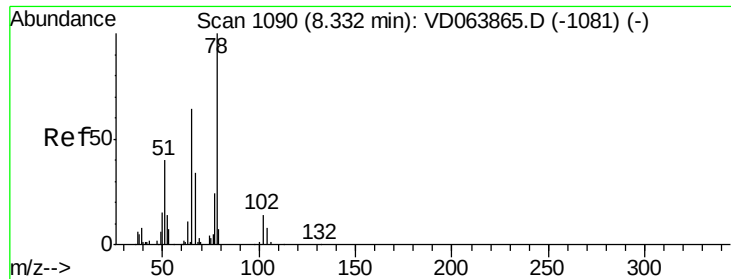
Tot Ion: 83 Resp: 62124
Ion Ratio Lower Upper
83 100
85 63.2 48.9 73.3



#31
Cyclohexane
Concen: Below Cal
RT: 7.98 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VD063917.D
Acq: 10 Oct 2019 18:31

Tgt Ion: 56 Resp: 4790
Ion Ratio Lower Upper
56 100
69 108.1 25.0 37.4#
84 78.6 76.3 114.5





#33

1,2-Dichloroethane-d4

Concen: 56.254 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VD063917.D

Acq: 10 Oct 2019 18:31

Instrument :

MSVOA_D

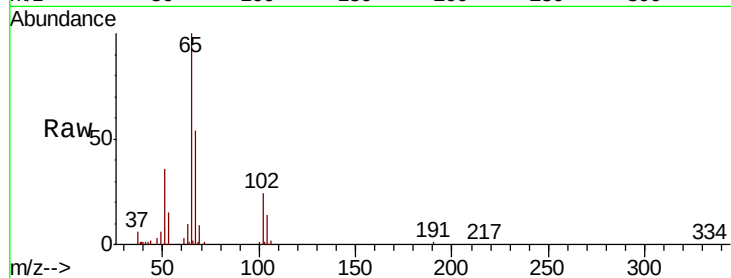
ClientSampleId :

Tot Ion: 65 Resp: 87294

Ion Ratio Lower Upper

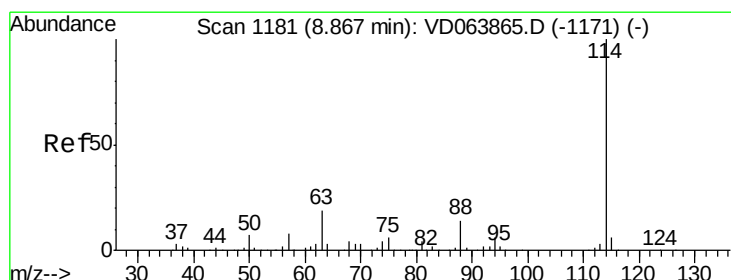
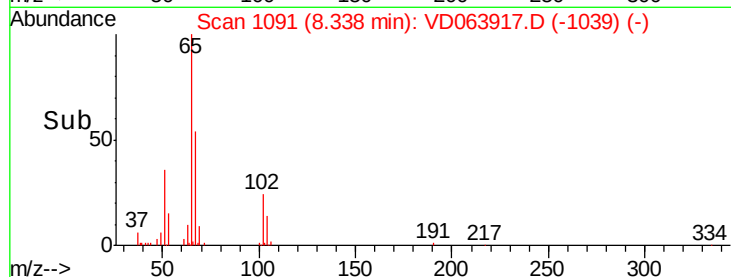
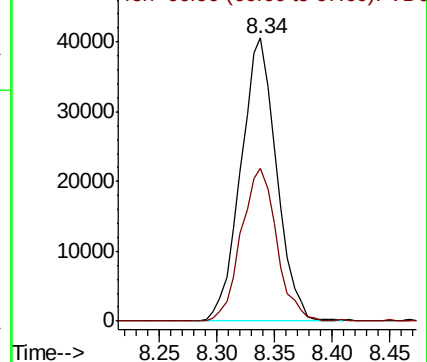
65 100

67 53.3 0.0 106.4



Abundance Ion 64.90 (64.60 to 65.60): V

Ion 66.90 (66.60 to 67.60): V



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VD063917.D

Acq: 10 Oct 2019 18:31

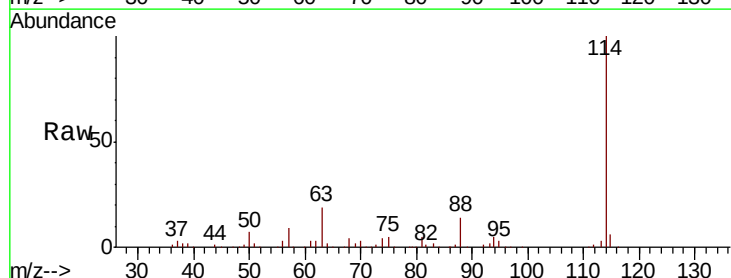
Tgt Ion: 114 Resp: 283659

Ion Ratio Lower Upper

114 100

63 19.0 0.0 38.4

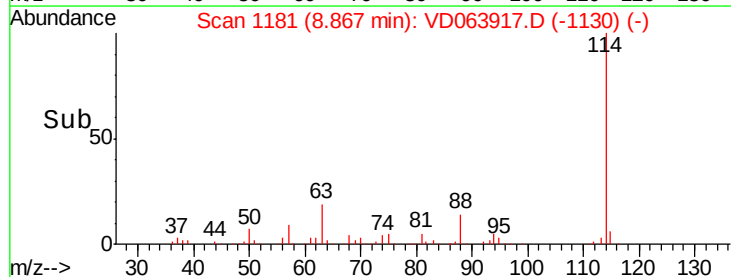
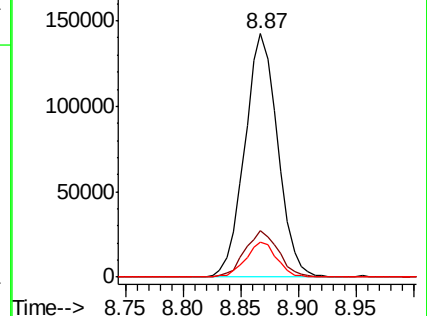
88 14.3 0.0 27.4

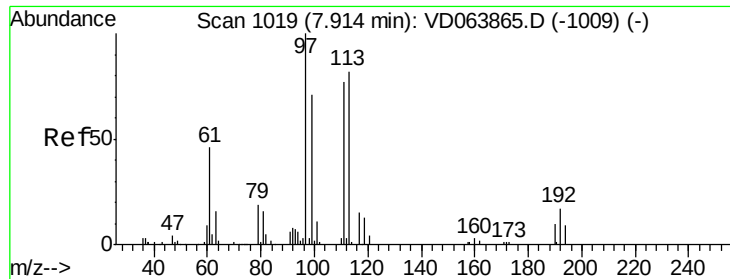


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V

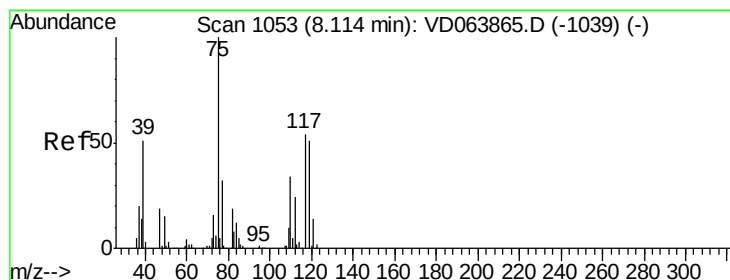
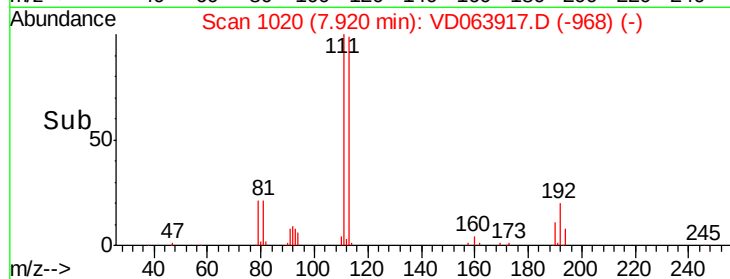
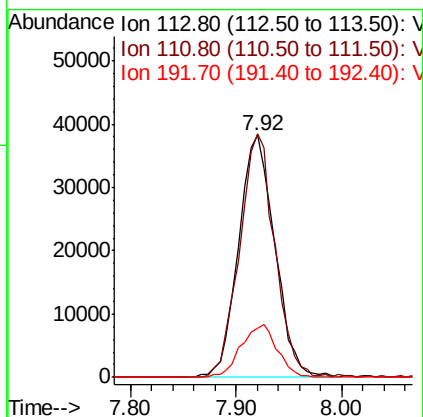
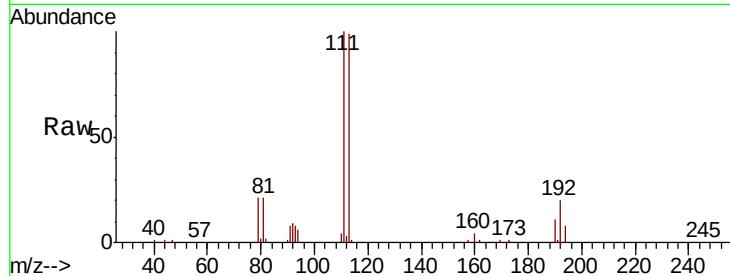




#35
 Dibromofluoromethane
 Concen: 52.541 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.01 min
 Lab File: VD063917.D
 Acq: 10 Oct 2019 18:31

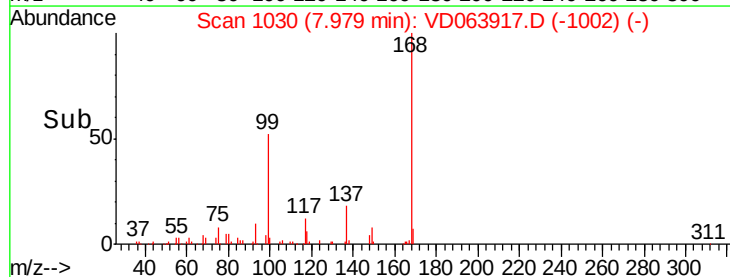
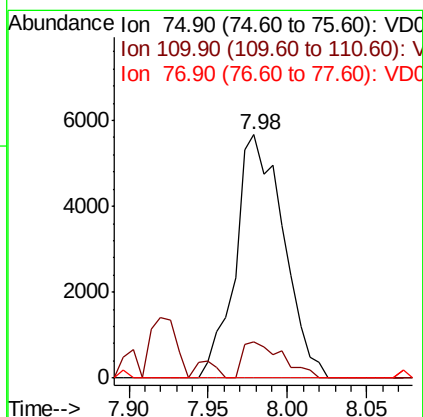
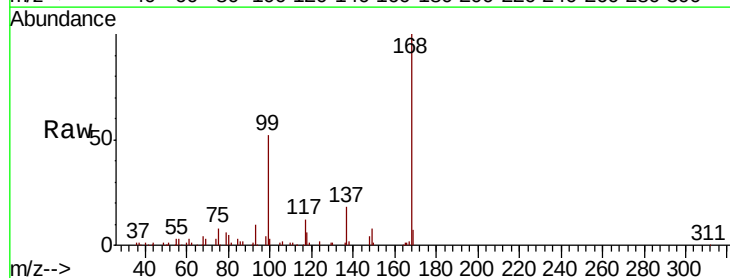
Instrument :
 MSVOA_D
 ClientSampled :

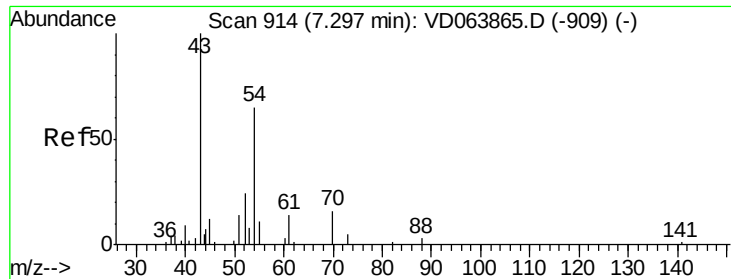
Tot Ion:113 Resp: 91082
 Ion Ratio Lower Upper
 113 100
 111 97.8 82.6 123.8
 192 21.8 17.1 25.7



#36
 1,1-Dichloropropene
 Concen: 4.617 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD063917.D
 Acq: 10 Oct 2019 18:31

Tgt Ion: 75 Resp: 11974
 Ion Ratio Lower Upper
 75 100
 110 12.4 17.4 52.3#
 77 0.0 25.4 38.0#

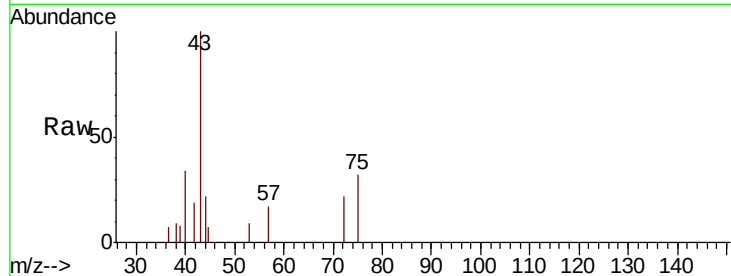




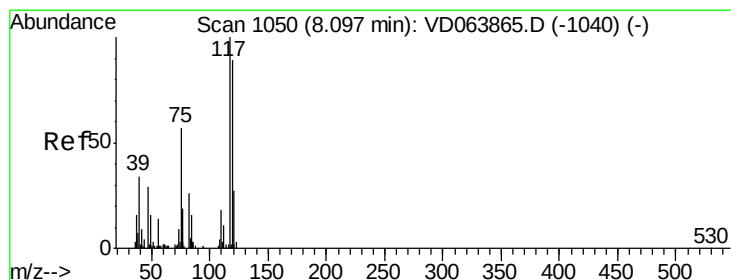
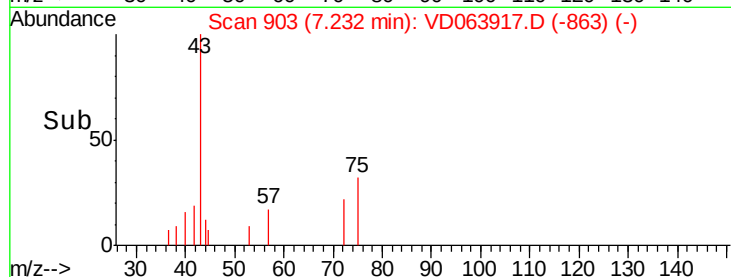
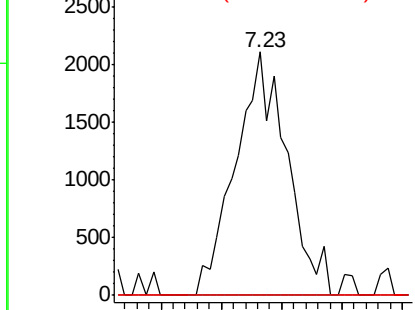
#37
Ethyl Acetate
Concen: 2.208 ug/l
RT: 7.23 min Scan# 903
Delta R.T. -0.06 min
Lab File: VD063917.D
Acq: 10 Oct 2019 18:31

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 6261
Ion Ratio Lower Upper
43 100
61 0.0 11.5 17.3#
70 0.0 8.2 12.4#

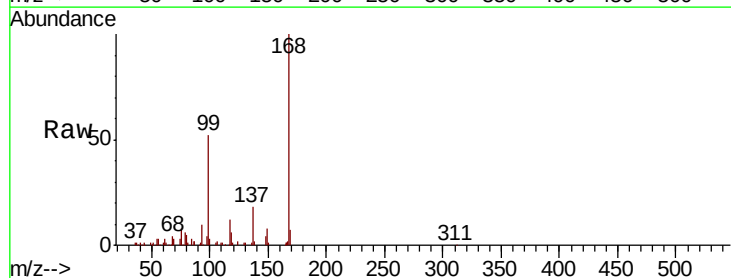


Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 70.00 (69.70 to 70.70): VDC

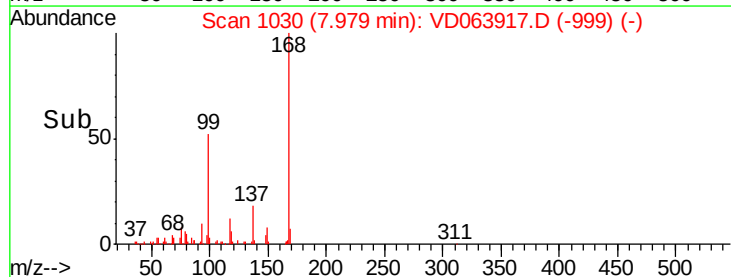
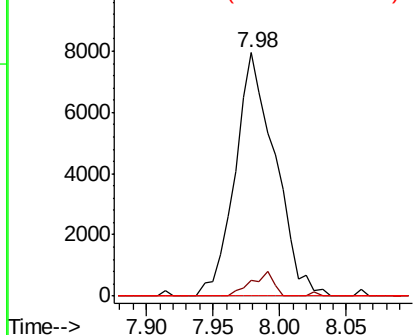


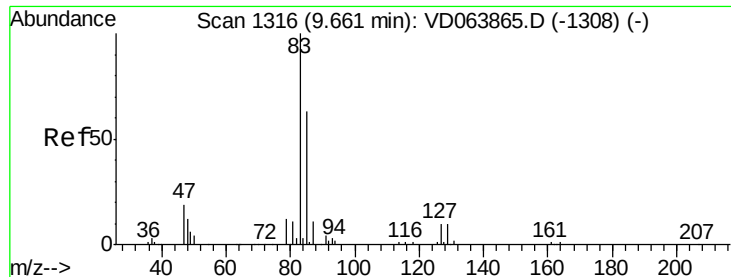
#38
Carbon Tetrachloride
Concen: 6.317 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.12 min
Lab File: VD063917.D
Acq: 10 Oct 2019 18:31

Tgt Ion: 117 Resp: 16556
Ion Ratio Lower Upper
117 100
119 6.3 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





#47

Bromodichloromethane

Concen: 1.248 ug/l

RT: 9.66 min Scan# 1315

Delta R.T. -0.01 min

Lab File: VD063917.D

Acq: 10 Oct 2019 18:31

Instrument :

MSVOA_D

ClientSampleId :

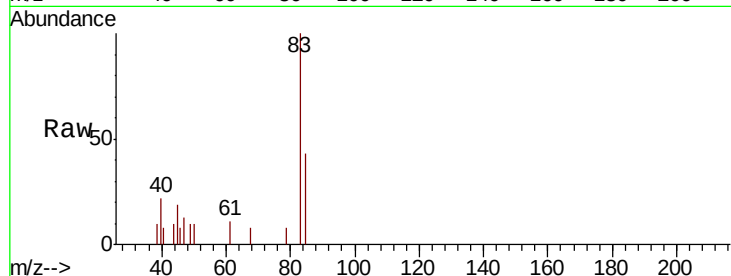
Tot Ion: 83 Resp: 3328

Ion Ratio Lower Upper

83 100

85 42.6 50.2 75.2#

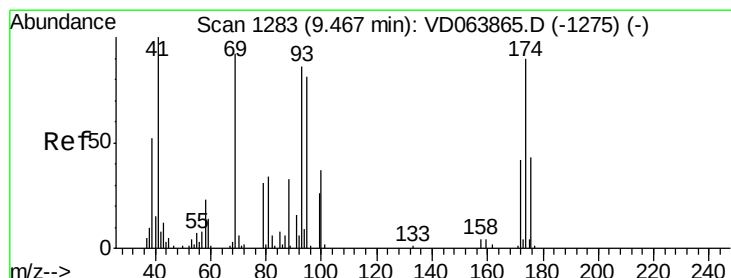
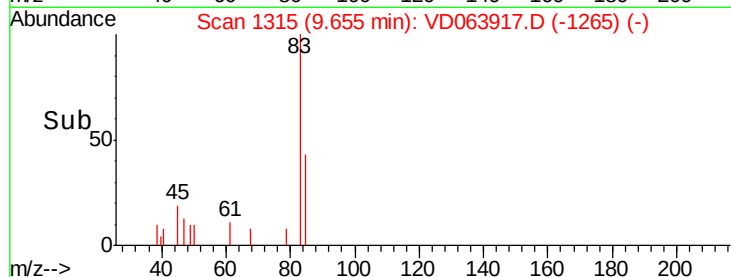
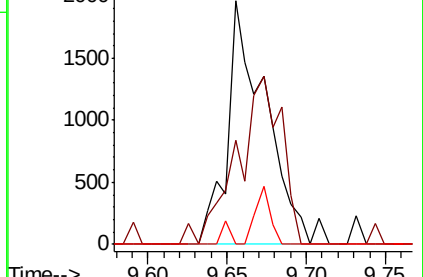
127 0.0 7.6 11.4#



Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

Ion 126.80 (126.50 to 127.50): VDC



#49

1,4-Dioxane

Concen: 4.101 ug/l

RT: 9.48 min Scan# 1285

Delta R.T. 0.01 min

Lab File: VD063917.D

Acq: 10 Oct 2019 18:31

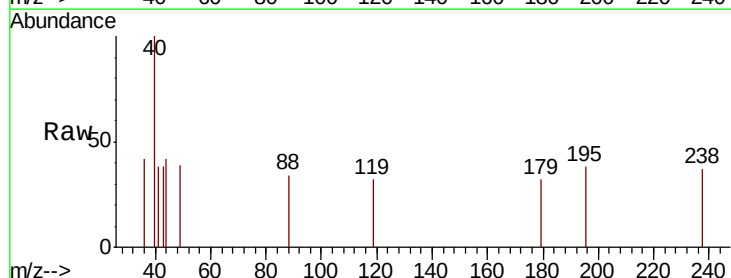
Tgt Ion: 88 Resp: 58

Ion Ratio Lower Upper

88 100

43 112.1 27.6 41.4#

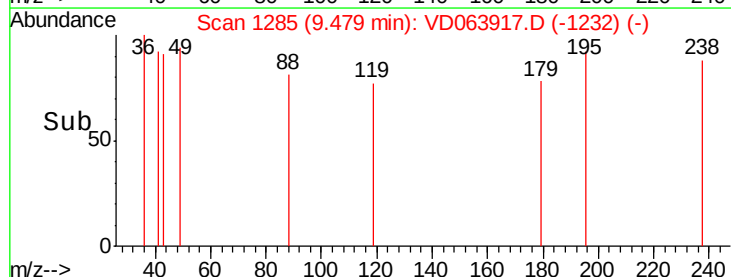
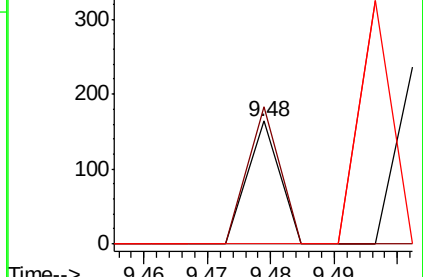
58 0.0 54.1 81.1#

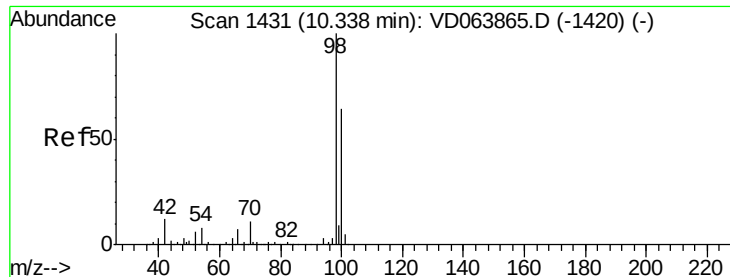


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

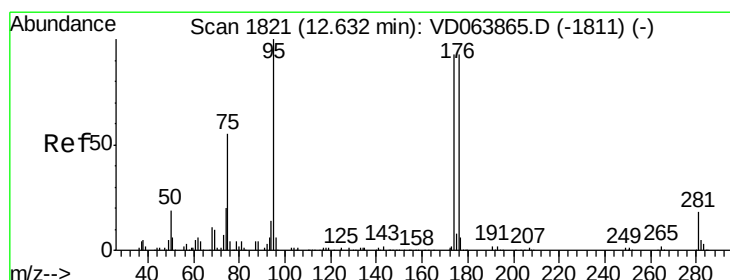
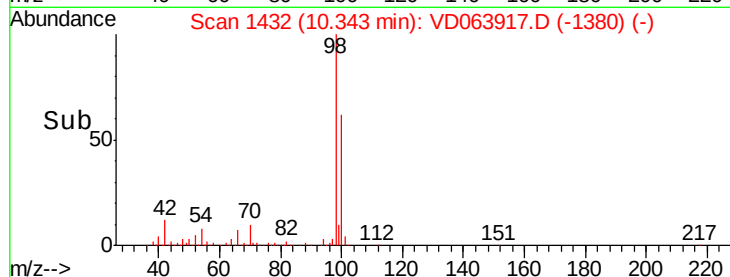
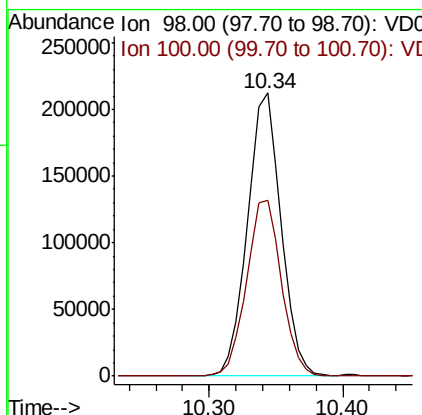
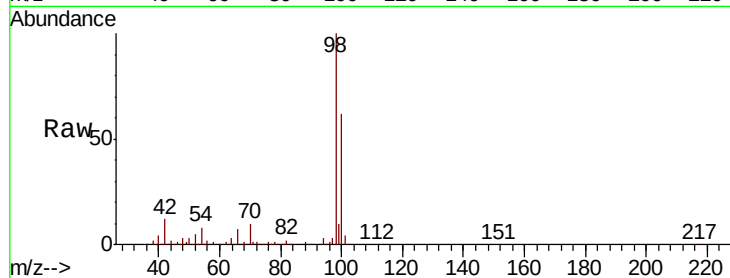




#50
Toluene-d8
Concen: 52.415 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.01 min
Lab File: VD063917.D
Acq: 10 Oct 2019 18:31

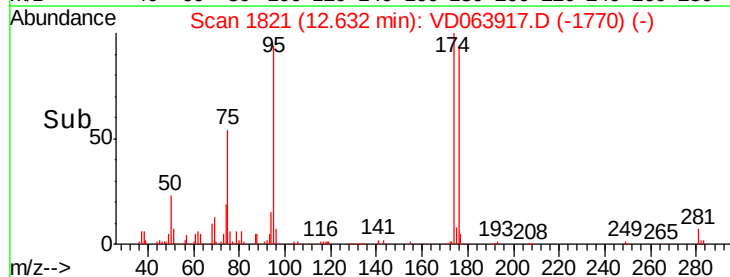
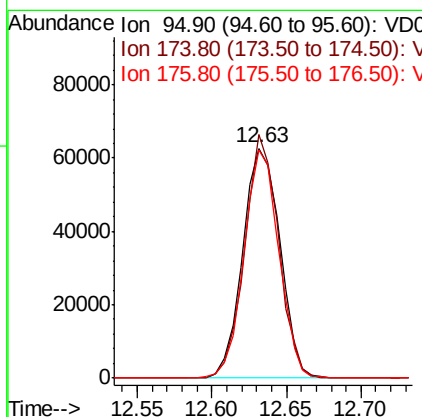
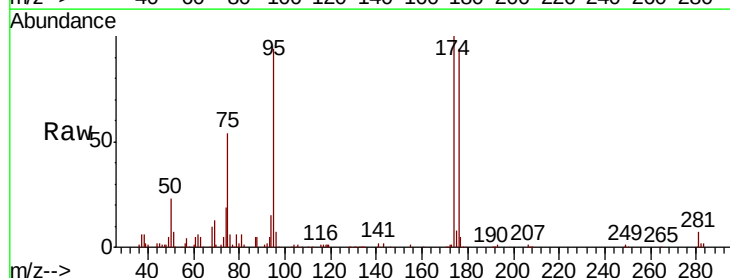
Instrument :
MSVOA_D
ClientSampleId :

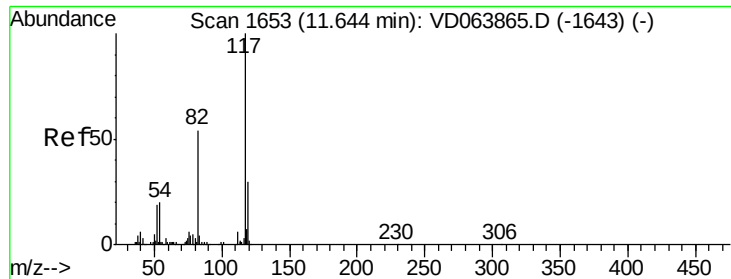
Tot Ion: 98 Resp: 368799
Ion Ratio Lower Upper
98 100
100 64.6 52.1 78.1



#62
4-Bromofluorobenzene
Concen: 44.219 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. -0.00 min
Lab File: VD063917.D
Acq: 10 Oct 2019 18:31

Tgt Ion: 95 Resp: 108118
Ion Ratio Lower Upper
95 100
174 96.0 0.0 186.4
176 93.3 0.0 184.2

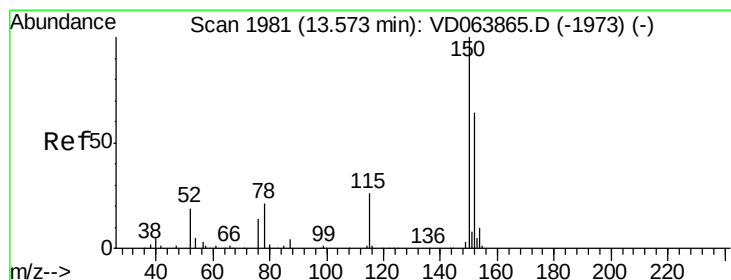
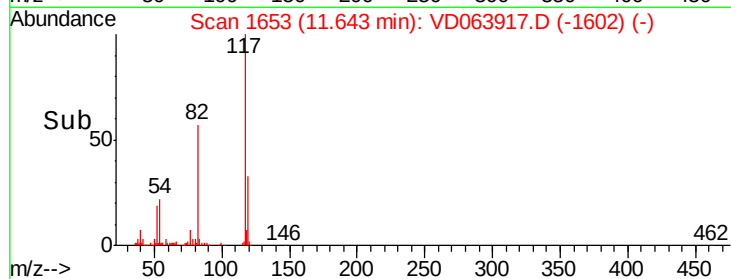
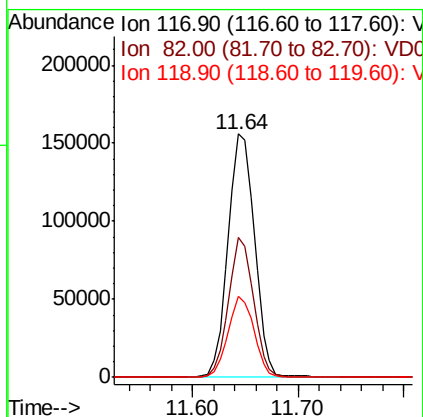
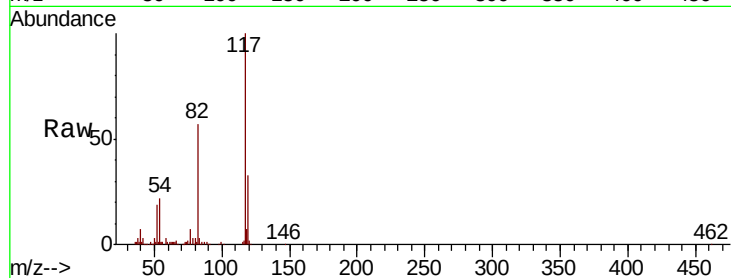




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.00 min
Lab File: VD063917.D
Acq: 10 Oct 2019 18:31

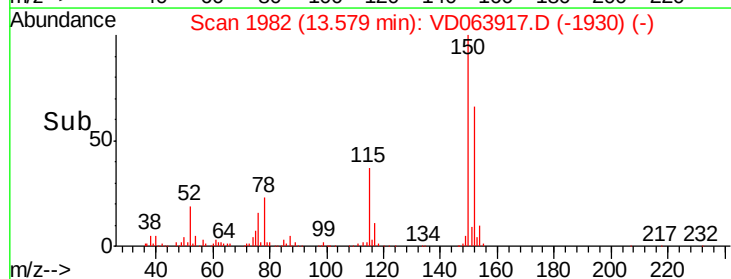
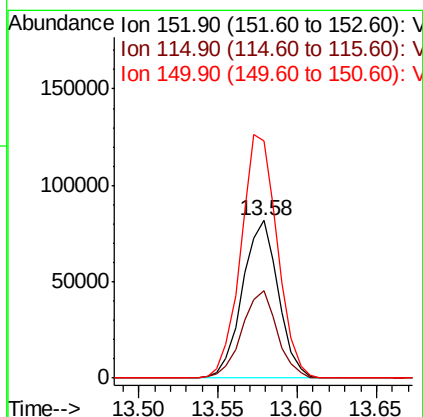
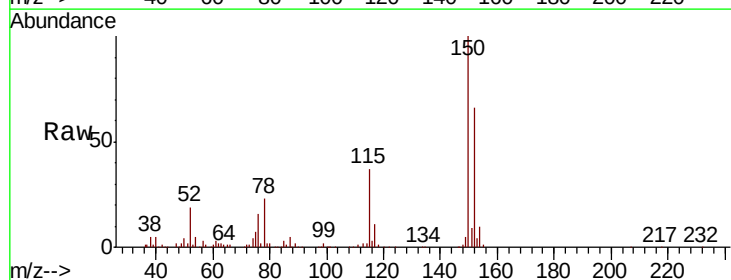
Instrument :
MSVOA_D
ClientSampleId :

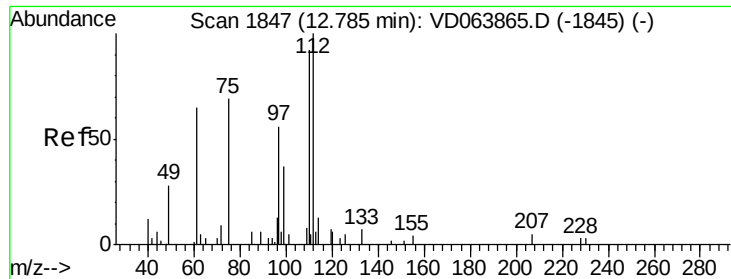
Tot Ion:117 Resp: 271419
Ion Ratio Lower Upper
117 100
82 57.5 42.8 64.2
119 33.1 24.4 36.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.01 min
Lab File: VD063917.D
Acq: 10 Oct 2019 18:31

Tgt Ion:152 Resp: 128850
Ion Ratio Lower Upper
152 100
115 54.4 25.9 77.7
150 156.4 0.0 344.2





#76

1,2,3-Trichloropropane

Concen: 70.693 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD063917.D

Acq: 10 Oct 2019 18:31

Instrument :

MSVOA_D

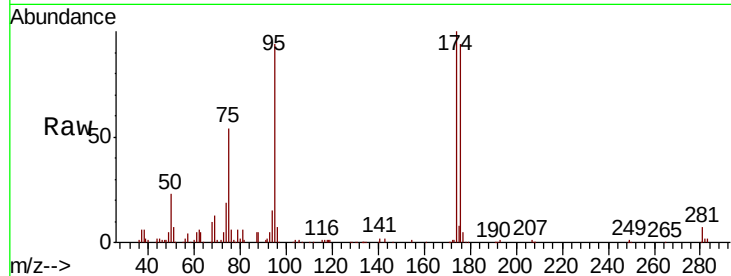
ClientSampleId :

Tot Ion: 75 Resp: 61008

Ion Ratio Lower Upper

75 100

77 2.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC

12.63

40000

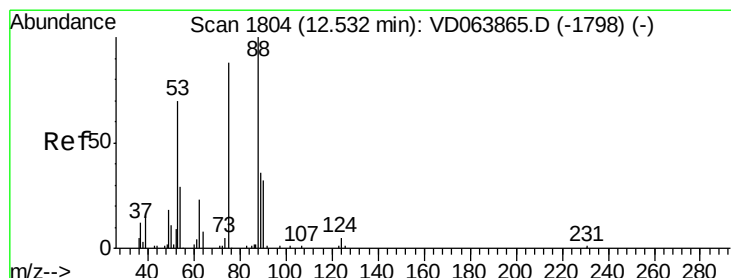
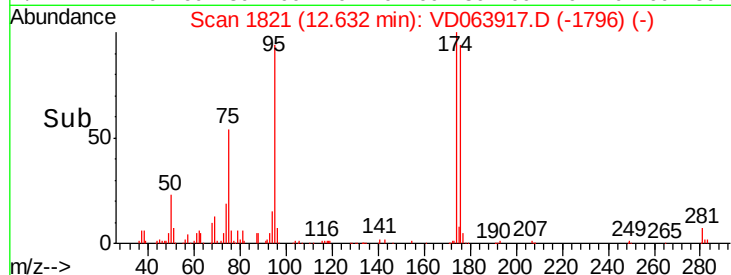
30000

20000

10000

0

Time--> 12.55 12.60 12.65 12.70



#81

trans-1,4-Dichloro-2-butene

Concen: 125.098 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD063917.D

Acq: 10 Oct 2019 18:31

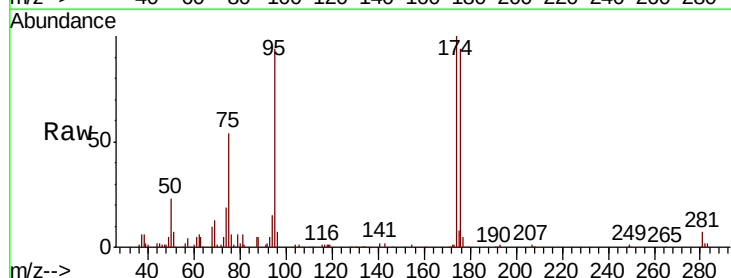
Tgt Ion: 75 Resp: 61008

Ion Ratio Lower Upper

75 100

53 0.2 75.0 112.6#

89 0.1 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

50000

40000

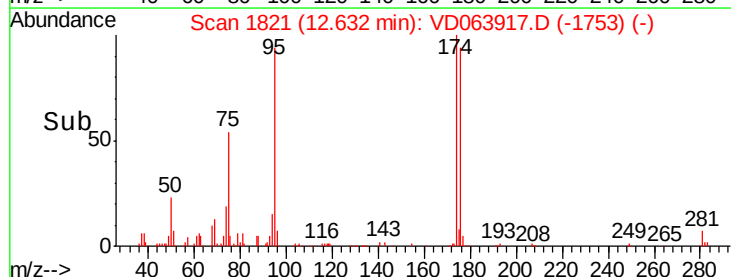
30000

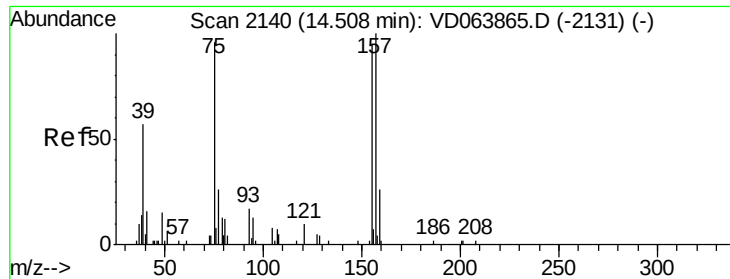
20000

10000

0

Time--> 12.55 12.60 12.65 12.70





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.44 min Scan# 2129

Delta R.T. -0.06 min

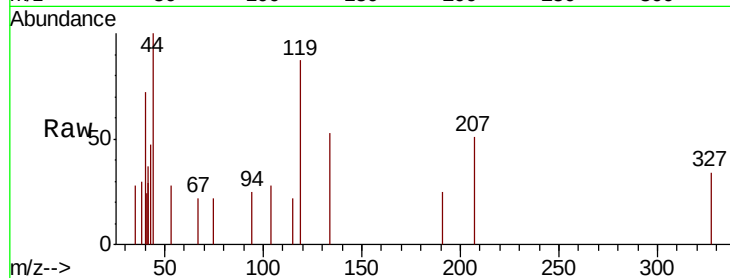
Lab File: VD063917.D

Acq: 10 Oct 2019 18:31

Instrument :

MSVOA_D

ClientSampleId :



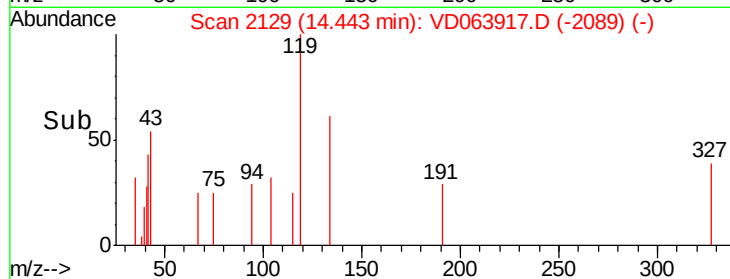
Tot Ion: 75 Resp: 56

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

14.44

150

100

50

0

Time--> 14.42 14.44 14.46