

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD101019\
 Data File : VD063921.D
 Acq On : 10 Oct 2019 20:24
 Operator : VA/SY
 Sample : K5297-16
 Misc : 5.31G/MSVOA D/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 11 07:42:00 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	7.99	168	162847	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	289891	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	284417	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	136674	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	91472	57.70	ug/l	0.00
Spiked Amount			Recovery	=	115.40%	
35) Dibromofluoromethane	7.91	113	89164	50.33	ug/l	0.00
Spiked Amount			Recovery	=	100.66%	
50) Toluene-d8	10.34	98	384360	53.45	ug/l	0.00
Spiked Amount			Recovery	=	106.90%	
62) 4-Bromofluorobenzene	12.64	95	110126	44.07	ug/l	0.00
Spiked Amount			Recovery	=	88.14%	

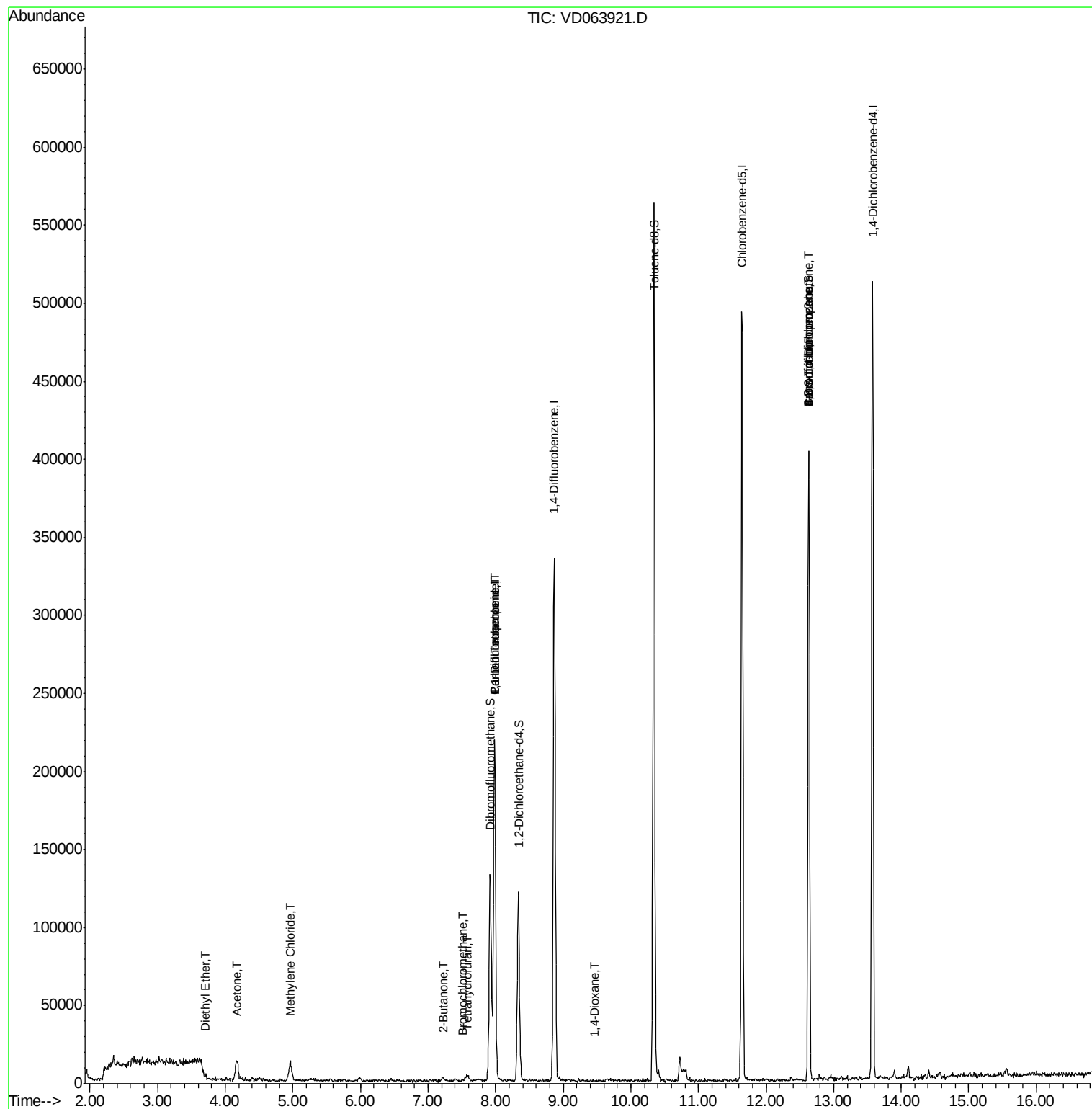
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.21	50	358	Below Cal	#	52
8) Diethyl Ether	3.70	74	1029	1.299	ug/l #	50
11) Tert butyl alcohol	5.27	59	373	Below Cal	#	88
16) Acetone	4.17	43	24213	58.659	ug/l	96
20) Methylene Chloride	4.97	84	7976	1.431	ug/l #	78
25) 2-Butanone	7.23	43	565	1.155	ug/l #	51
28) Bromochloromethane	7.51	49	62	1.919	ug/l #	10
29) Tetrahydrofuran	7.58	42	3453	12.093	ug/l #	47
31) Cyclohexane	7.98	56	4236	Below Cal	#	19
36) 1,1-Dichloropropene	7.98	75	12916	4.873	ug/l #	51
37) Ethyl Acetate	7.29	43	56	Below Cal	#	1
38) Carbon Tetrachloride	7.99	117	16993	6.344	ug/l #	18
49) 1,4-Dioxane	9.47	88	106	7.334	ug/l #	24
71) Bromoform	12.63	173	1237	1.095	ug/l #	1
76) 1,2,3-Trichloropropane	12.63	75	63585	69.461	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	63585	122.918	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.56	75	63	Below Cal	#	1

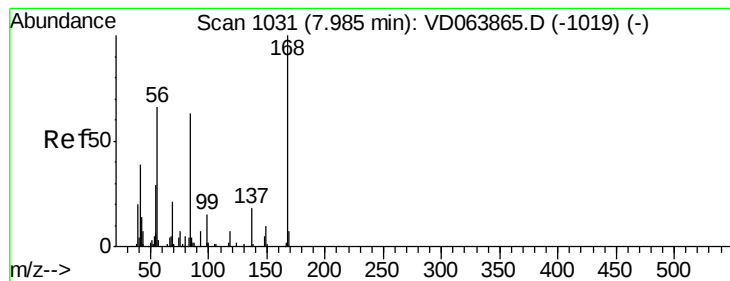
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD101019\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD063921.D

Acq: 10 Oct 2019 20:24

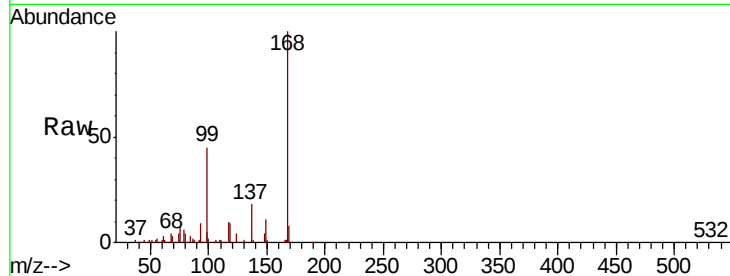
Instrument :
MSVOA_D
ClientSampled :

Tot Ion:168 Resp: 162847

Ion Ratio Lower Upper

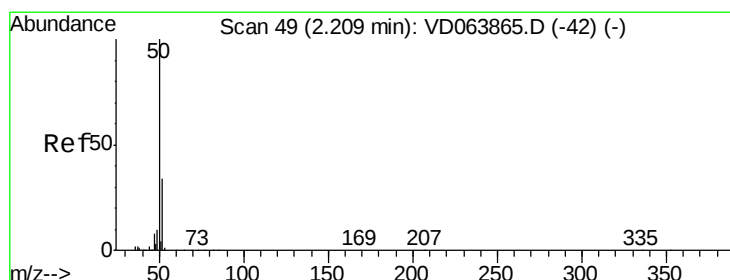
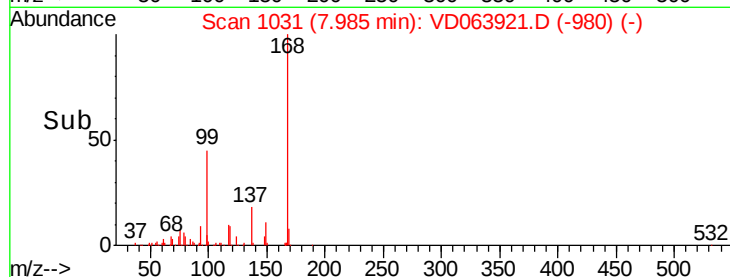
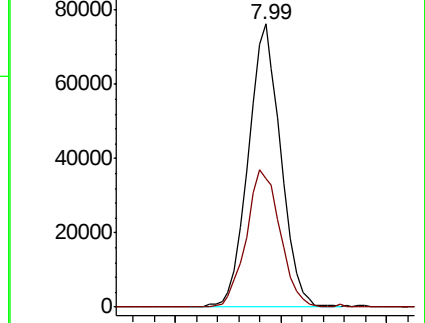
168 100

99 45.4 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: Below Cal

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD063921.D

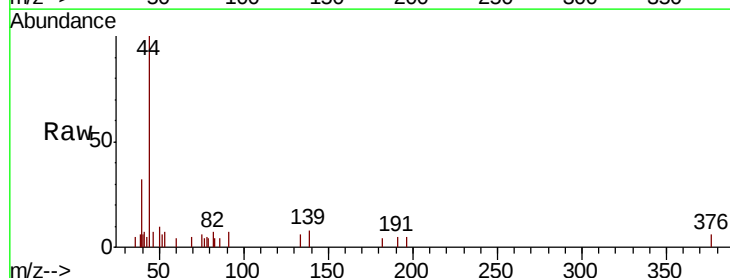
Acq: 10 Oct 2019 20:24

Tgt Ion: 50 Resp: 358

Ion Ratio Lower Upper

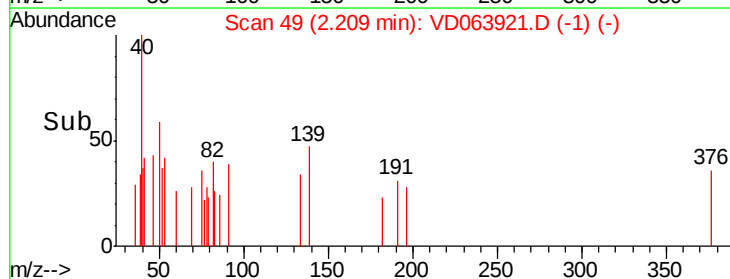
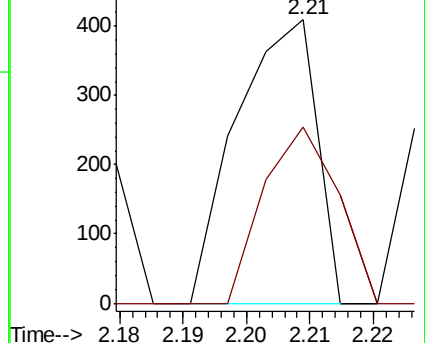
50 100

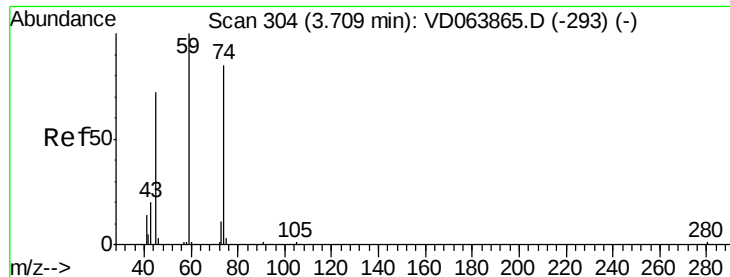
52 62.1 27.5 41.3#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#8

Diethyl Ether

Concen: 1.299 ug/l

RT: 3.70 min Scan# 303

Delta R.T. -0.01 min

Lab File: VD063921.D

Acq: 10 Oct 2019 20:24

Instrument :

MSVOA_D

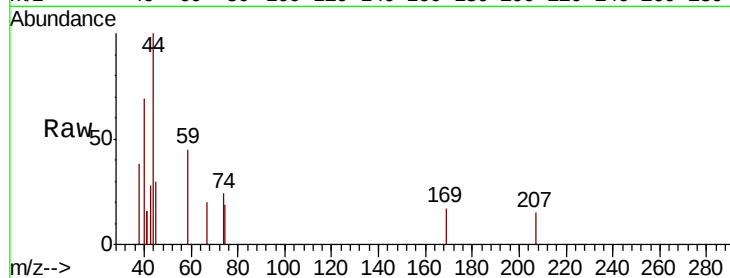
ClientSampled :

Tot Ion: 74 Resp: 1029

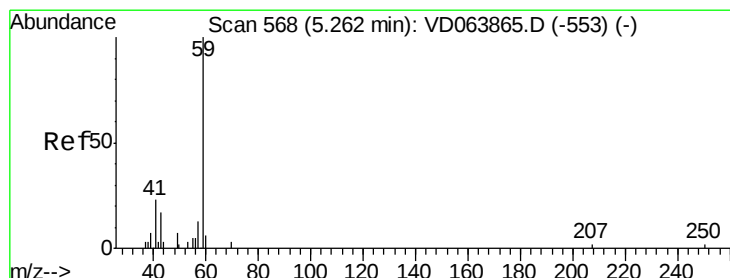
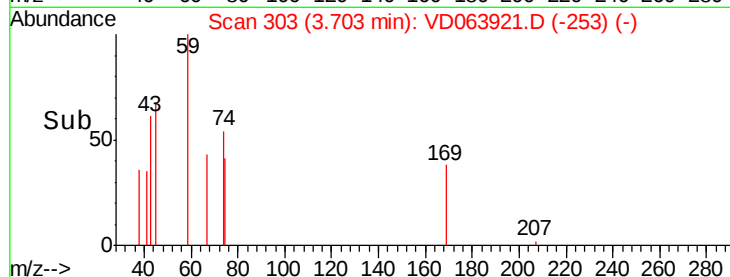
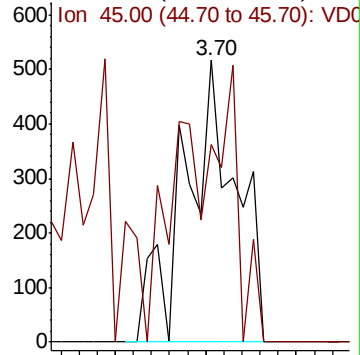
Ion Ratio Lower Upper

74 100

45 47.2 48.1 144.4#



Abundance Ion 74.00 (73.70 to 74.70): VDC



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.27 min Scan# 569

Delta R.T. 0.01 min

Lab File: VD063921.D

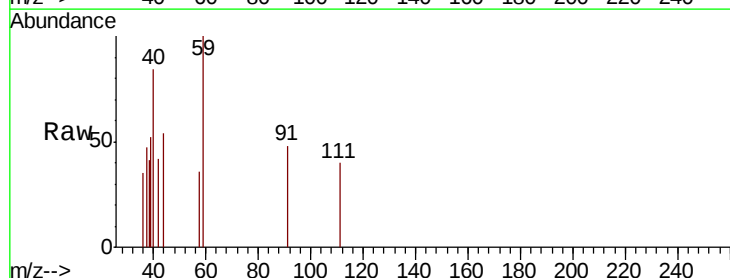
Acq: 10 Oct 2019 20:24

Tgt Ion: 59 Resp: 373

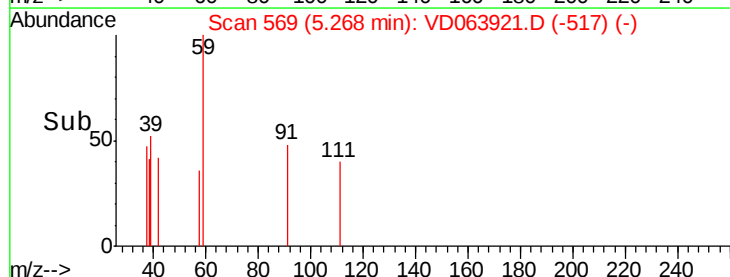
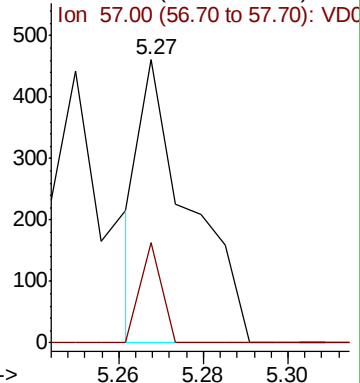
Ion Ratio Lower Upper

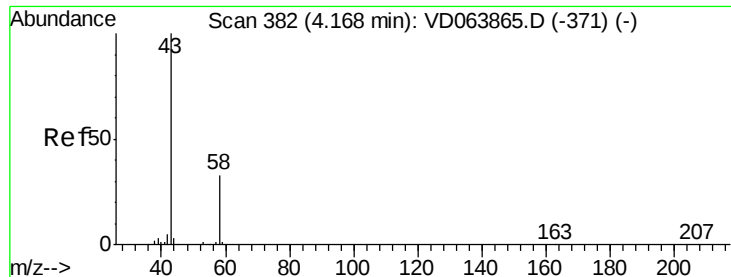
59 100

57 15.5 8.8 13.2#



Abundance Ion 59.00 (58.70 to 59.70): VDC





#16

Acetone

Concen: 58.659 ug/l

RT: 4.17 min Scan# 382

Delta R.T. -0.00 min

Lab File: VD063921.D

Acq: 10 Oct 2019 20:24

Instrument :

MSVOA_D

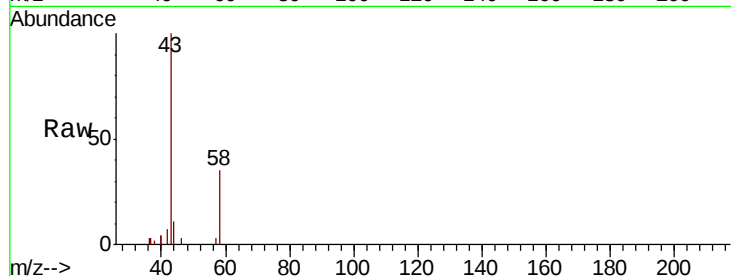
ClientSampleId :

Tot Ion: 43 Resp: 24213

Ion Ratio Lower Upper

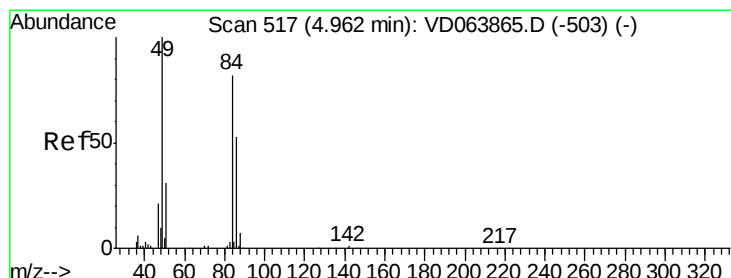
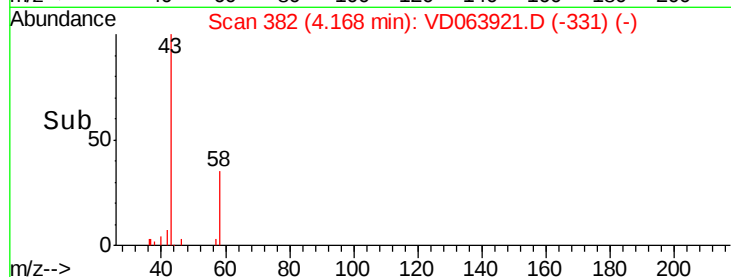
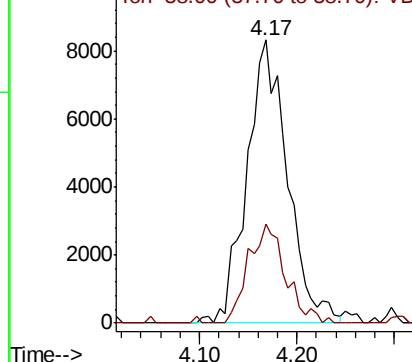
43 100

58 34.8 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#20

Methylene Chloride

Concen: 1.431 ug/l

RT: 4.97 min Scan# 518

Delta R.T. 0.01 min

Lab File: VD063921.D

Acq: 10 Oct 2019 20:24

Tgt Ion: 84 Resp: 7976

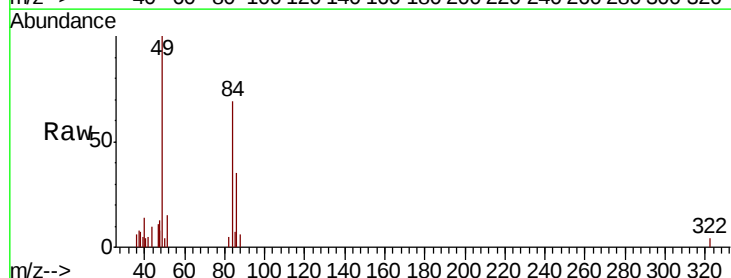
Ion Ratio Lower Upper

84 100

49 145.4 97.3 145.9

51 16.8 30.1 45.1#

86 51.4 51.4 77.2#

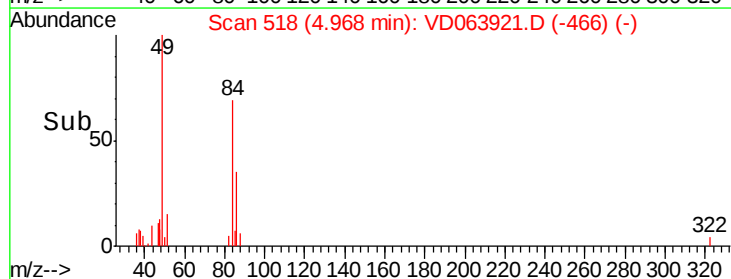
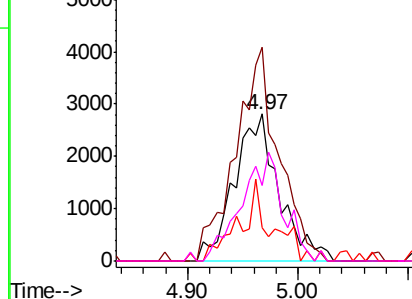


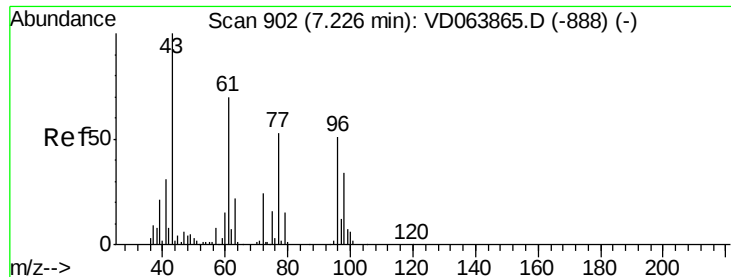
Abundance Ion 83.90 (83.60 to 84.60): VDC

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





#25

2-Butanone

Concen: 1.155 ug/l

RT: 7.23 min Scan# 902

Delta R.T. -0.00 min

Lab File: VD063921.D

Acq: 10 Oct 2019 20:24

Instrument :

MSVOA_D

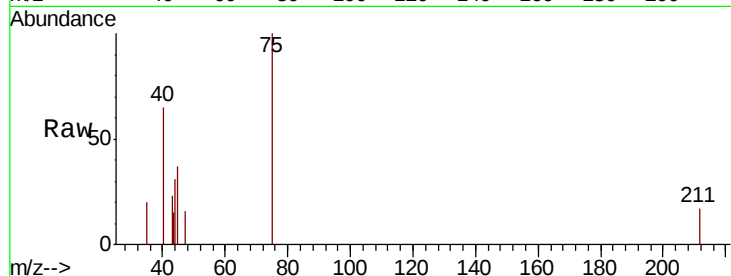
ClientSampled :

Tot Ion: 43 Resp: 565

Ion Ratio Lower Upper

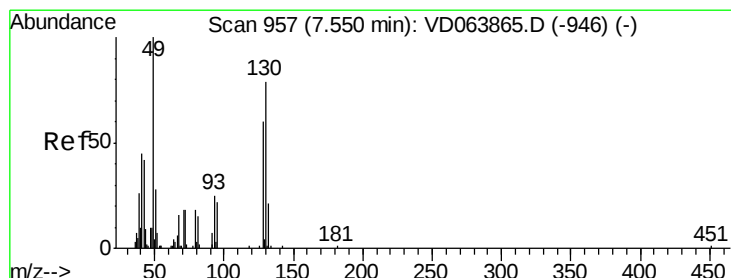
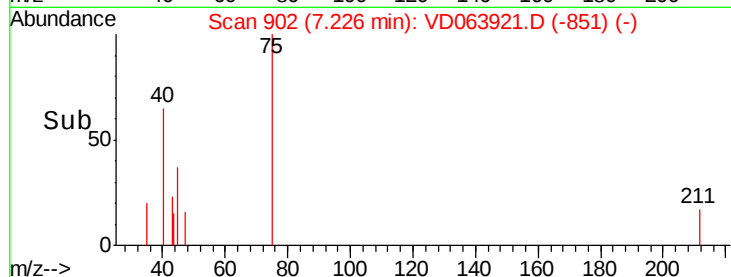
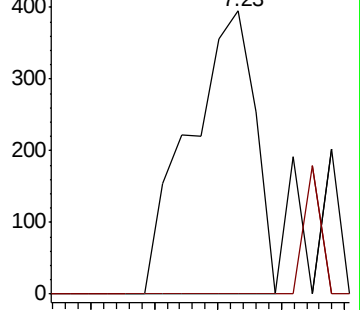
43 100

72 0.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#28

Bromochloromethane

Concen: 1.919 ug/l

RT: 7.51 min Scan# 950

Delta R.T. -0.04 min

Lab File: VD063921.D

Acq: 10 Oct 2019 20:24

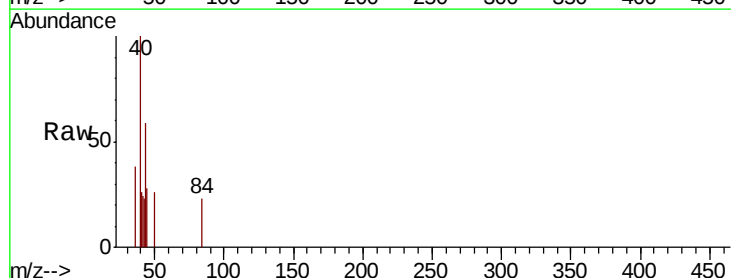
Tgt Ion: 49 Resp: 62

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.6

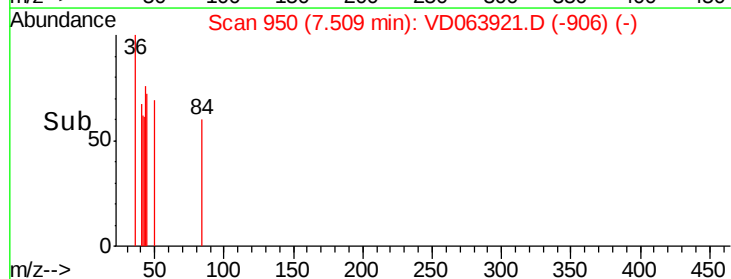
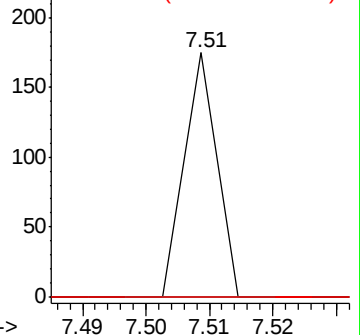
130 0.0 66.8 100.2#

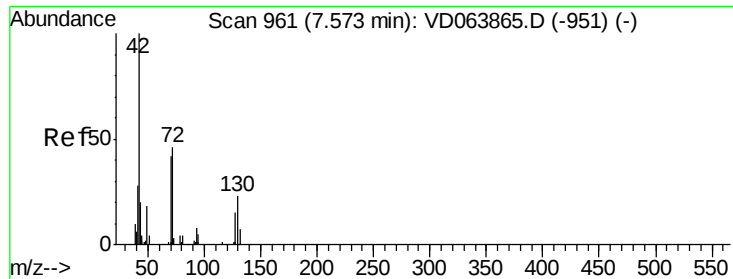


Abundance Ion 48.90 (48.60 to 49.60): VDC

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

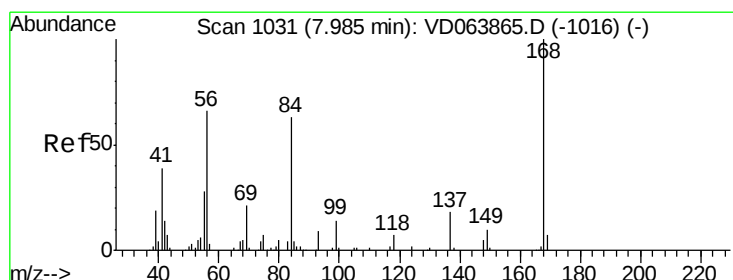
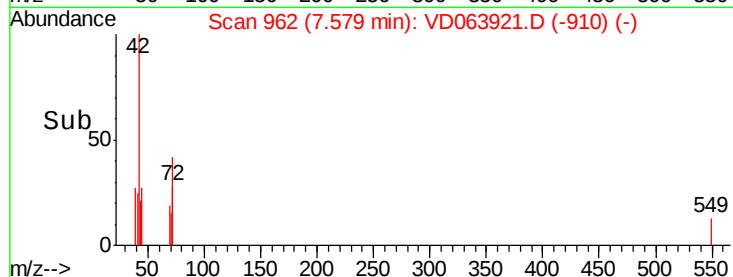
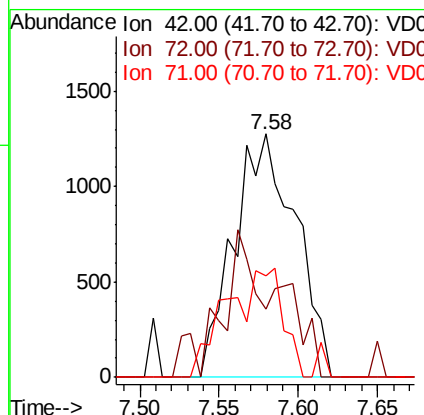
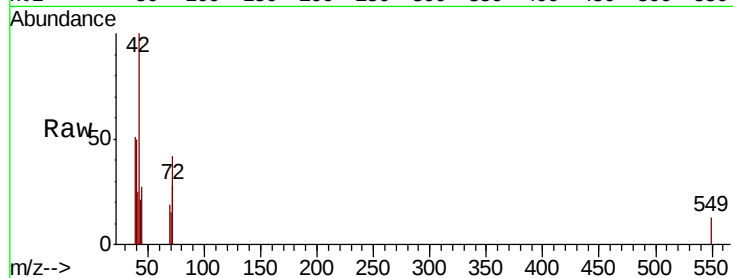




#29
Tetrahydrofuran
Concen: 12.093 ug/l
RT: 7.58 min Scan# 962
Delta R.T. 0.01 min
Lab File: VD063921.D
Acq: 10 Oct 2019 20:24

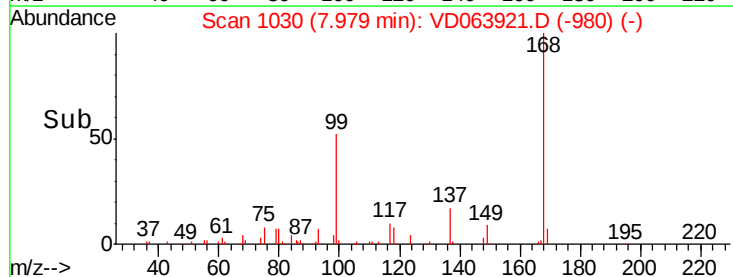
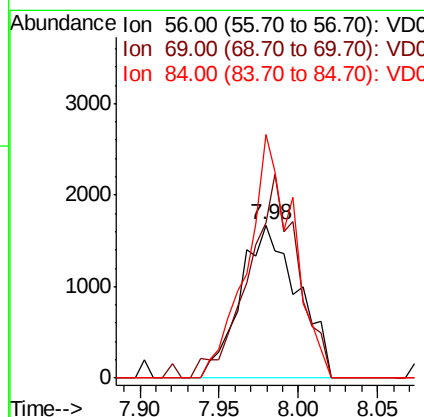
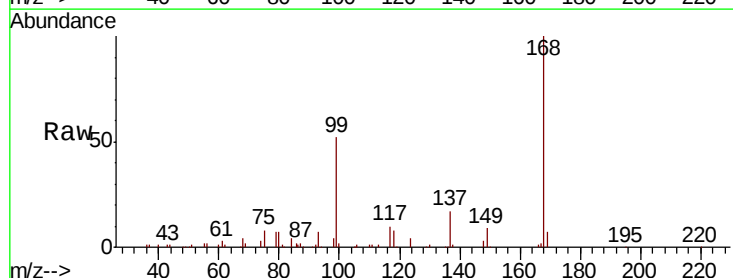
Instrument :
MSVOA_D
ClientSampleId :

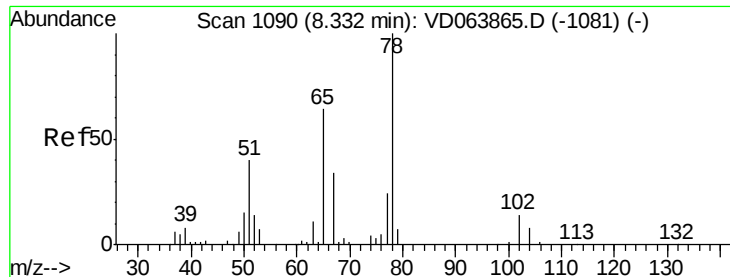
Tot Ion: 42 Resp: 3453
Ion Ratio Lower Upper
42 100
72 0.0 37.6 56.4#
71 21.8 35.0 52.6#



#31
Cyclohexane
Concen: Below Cal
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD063921.D
Acq: 10 Oct 2019 20:24

Tgt Ion: 56 Resp: 4236
Ion Ratio Lower Upper
56 100
69 101.3 25.0 37.4#
84 159.2 76.3 114.5#

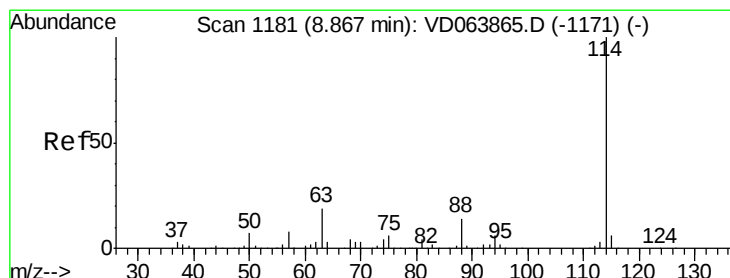
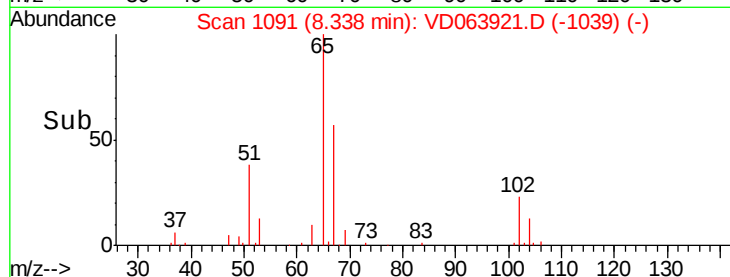
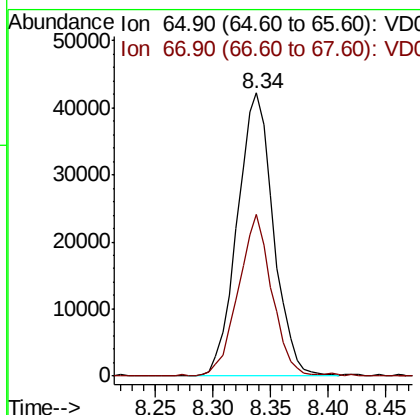
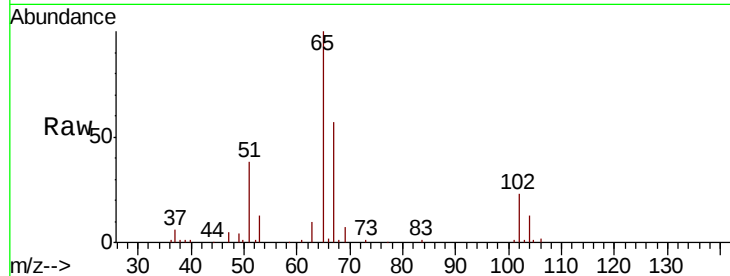




#33
 1,2-Dichloroethane-d4
 Concen: 57.695 ug/l
 RT: 8.34 min Scan# 1091
 Delta R.T. 0.01 min
 Lab File: VD063921.D
 Acq: 10 Oct 2019 20:24

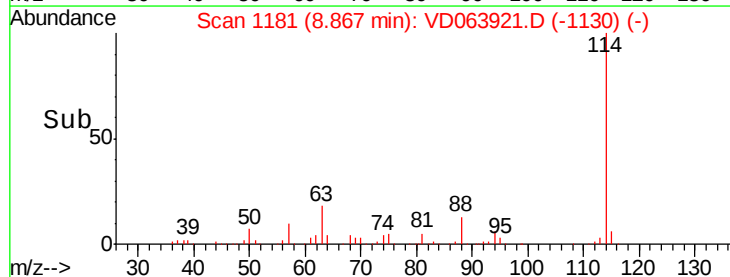
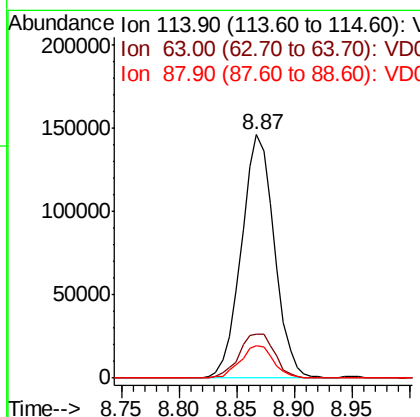
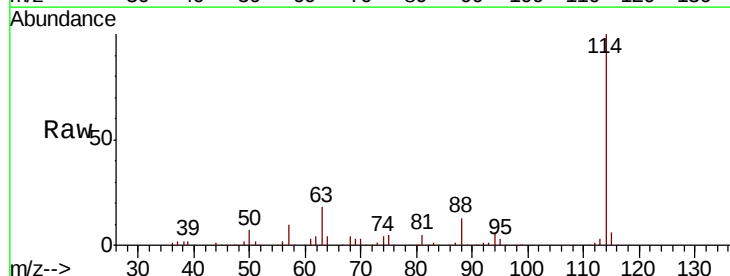
Instrument :
 MSVOA_D
 ClientSampleId :

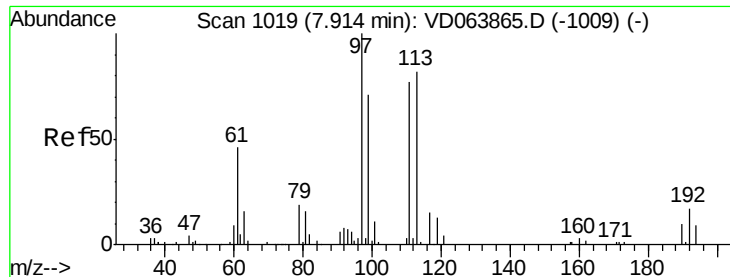
Tot Ion: 65 Resp: 91472
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 106.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD063921.D
 Acq: 10 Oct 2019 20:24

Tgt Ion: 114 Resp: 289891
 Ion Ratio Lower Upper
 114 100
 63 18.1 0.0 38.4
 88 13.4 0.0 27.4

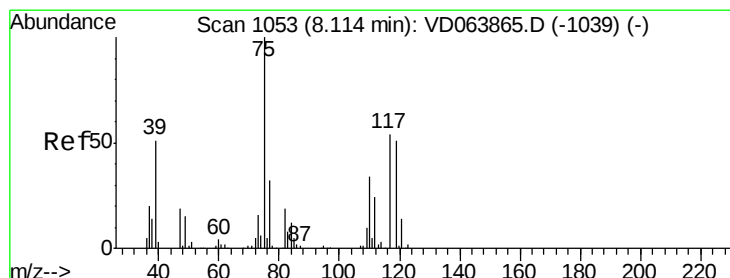
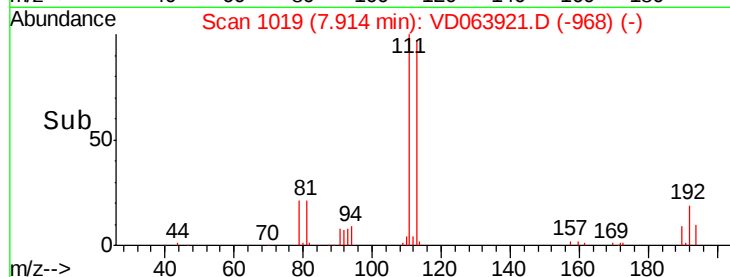
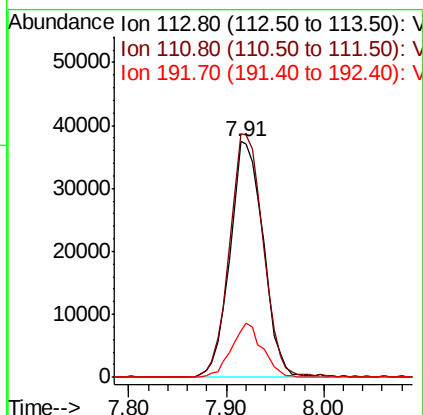
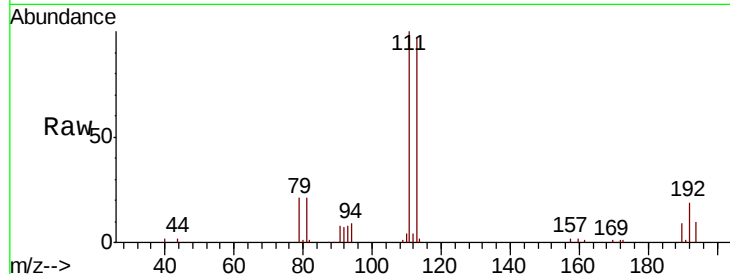




#35
 Dibromofluoromethane
 Concen: 50.329 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. -0.00 min
 Lab File: VD063921.D
 Acq: 10 Oct 2019 20:24

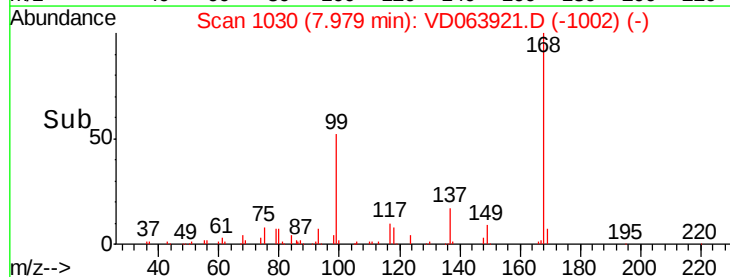
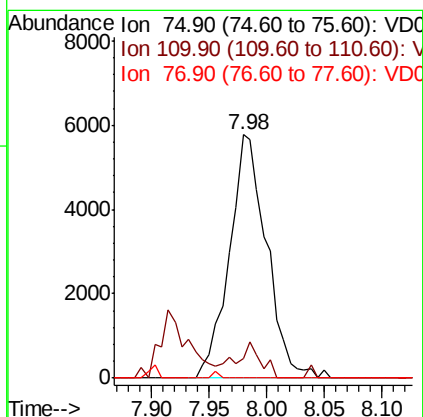
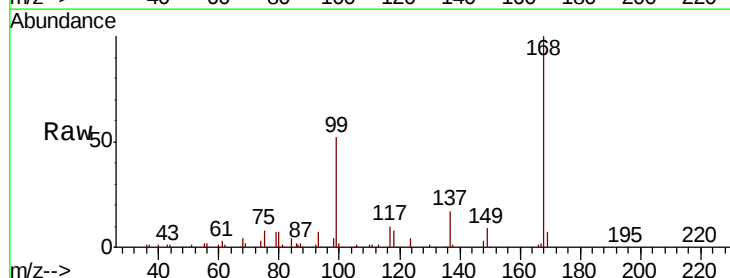
Instrument :
 MSVOA_D
 ClientSampled :

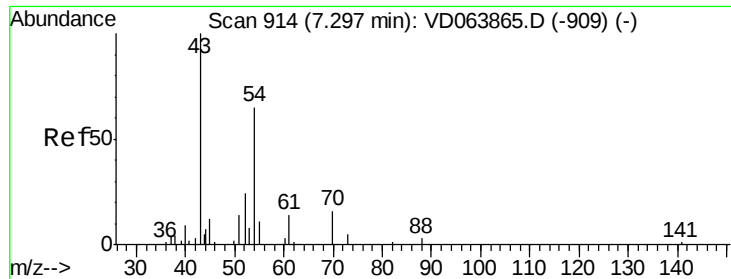
Tot Ion:113 Resp: 89164
 Ion Ratio Lower Upper
 113 100
 111 104.0 82.6 123.8
 192 21.3 17.1 25.7



#36
 1,1-Dichloropropene
 Concen: 4.873 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD063921.D
 Acq: 10 Oct 2019 20:24

Tgt Ion: 75 Resp: 12916
 Ion Ratio Lower Upper
 75 100
 110 10.2 17.4 52.3#
 77 0.0 25.4 38.0#

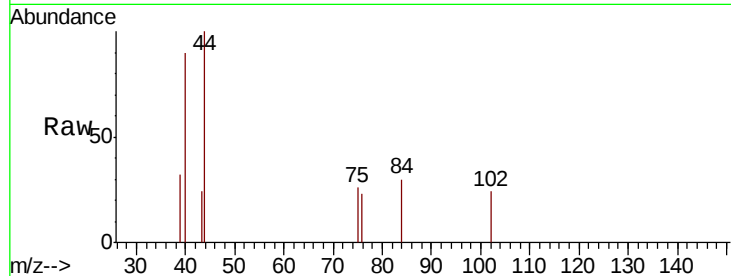




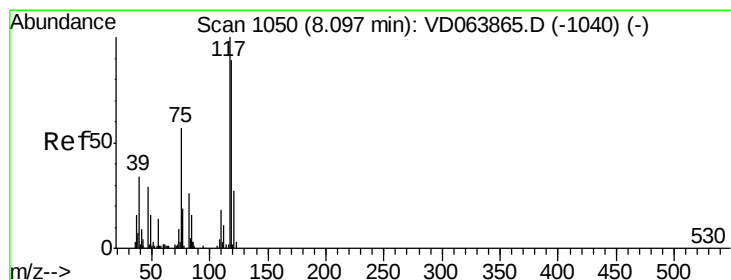
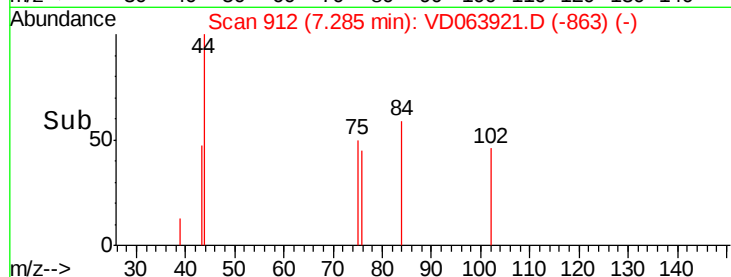
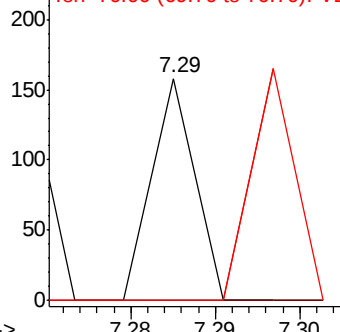
#37
Ethyl Acetate
Concen: Below Cal
RT: 7.29 min Scan# 912
Delta R.T. -0.01 min
Lab File: VD063921.D
Acq: 10 Oct 2019 20:24

Instrument :
MSVOA_D
ClientSampleID :

Tot Ion: 43 Resp: 56
Ion Ratio Lower Upper
43 100
61 0.0 11.5 17.3#
70 103.6 8.2 12.4#

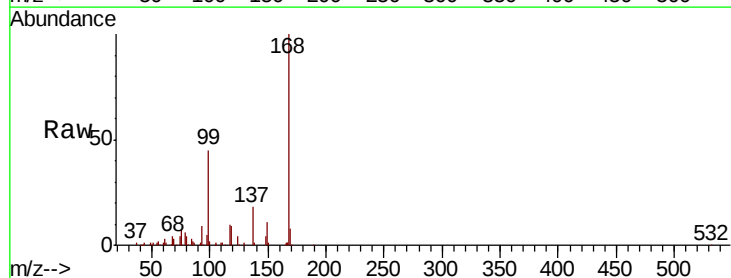


Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 70.00 (69.70 to 70.70): VDC

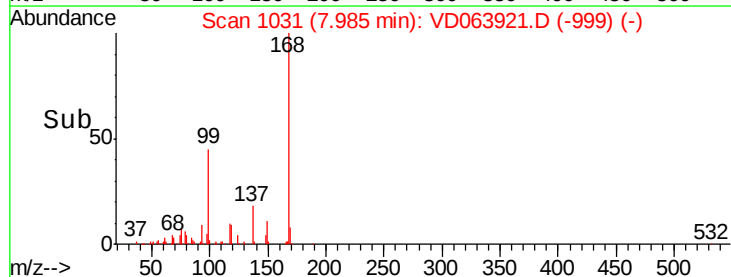
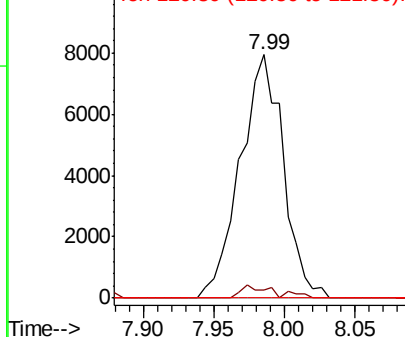


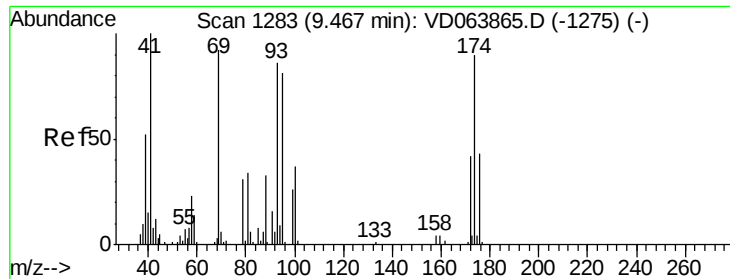
#38
Carbon Tetrachloride
Concen: 6.344 ug/l
RT: 7.99 min Scan# 1031
Delta R.T. -0.11 min
Lab File: VD063921.D
Acq: 10 Oct 2019 20:24

Tgt Ion: 117 Resp: 16993
Ion Ratio Lower Upper
117 100
119 3.1 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: 7.334 ug/l

RT: 9.47 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VD063921.D

Acq: 10 Oct 2019 20:24

Instrument :
MSVOA_D
ClientSampleId :

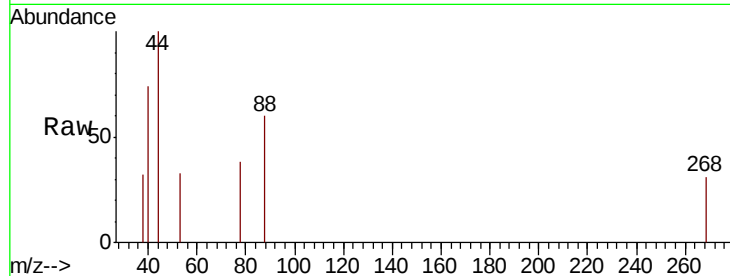
Tot Ion: 88 Resp: 106

Ion Ratio Lower Upper

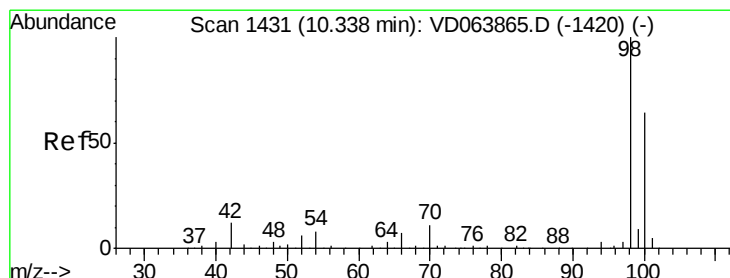
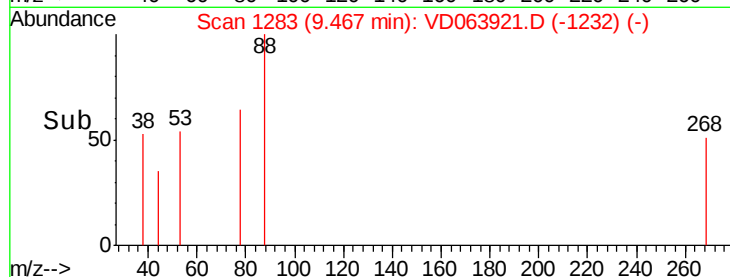
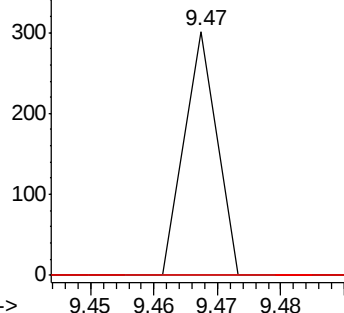
88 100

43 0.0 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: 53.452 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.01 min

Lab File: VD063921.D

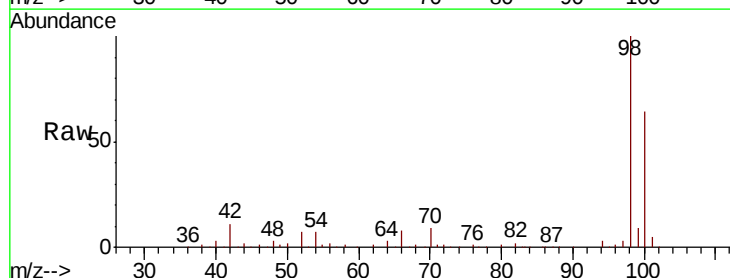
Acq: 10 Oct 2019 20:24

Tgt Ion: 98 Resp: 384360

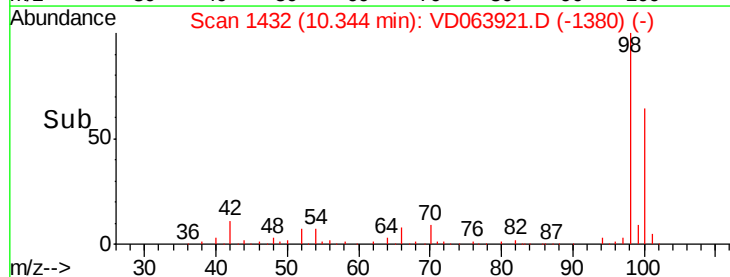
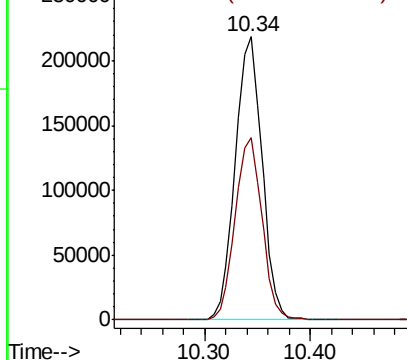
Ion Ratio Lower Upper

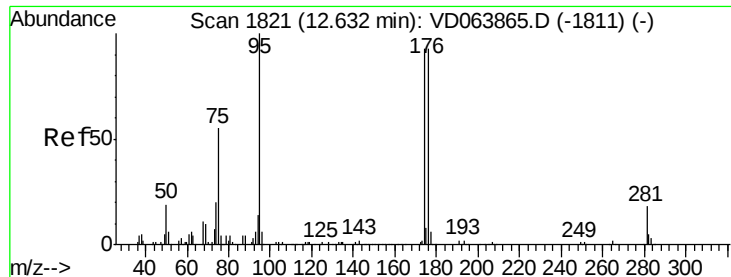
98 100

100 64.3 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VDC
Ion 100.00 (99.70 to 100.70): VDC





#62

4-Bromofluorobenzene

Concen: 44.072 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.01 min

Lab File: VD063921.D

Acq: 10 Oct 2019 20:24

Instrument :

MSVOA_D

ClientSampleId :

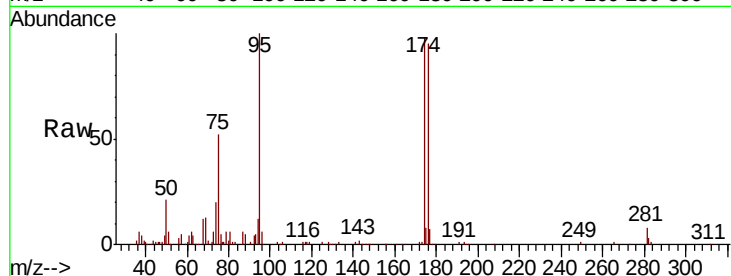
Tot Ion: 95 Resp: 110126

Ion Ratio Lower Upper

95 100

174 98.3 0.0 186.4

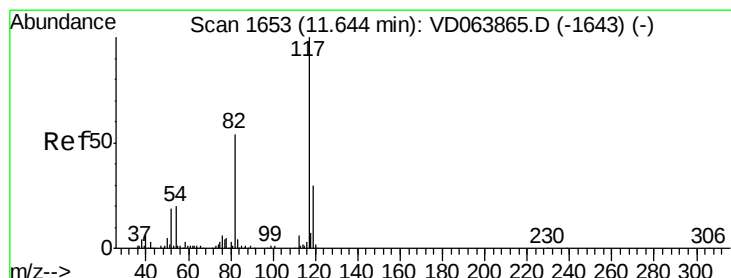
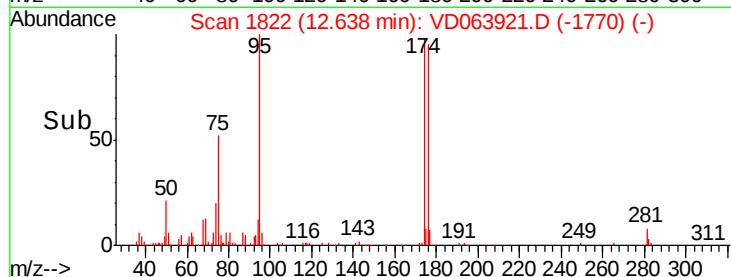
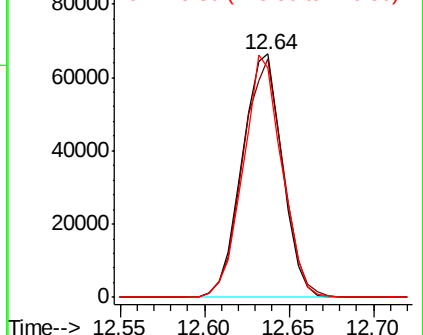
176 96.0 0.0 184.2



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.64 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VD063921.D

Acq: 10 Oct 2019 20:24

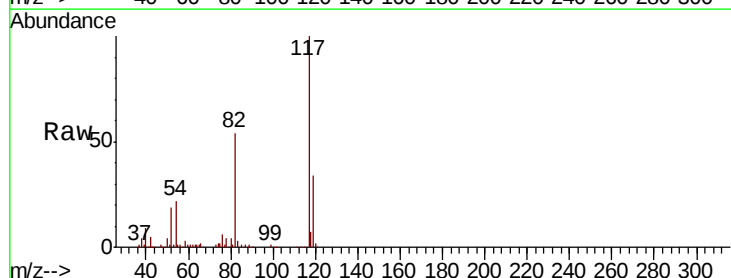
Tgt Ion: 117 Resp: 284417

Ion Ratio Lower Upper

117 100

82 53.7 42.8 64.2

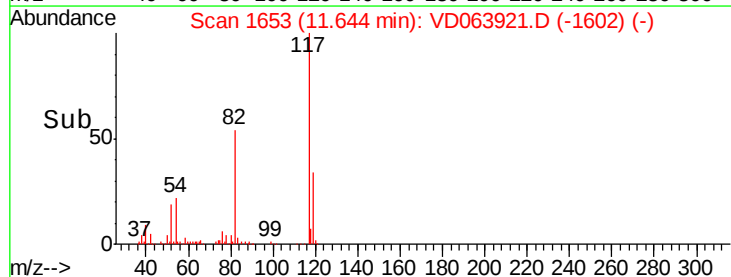
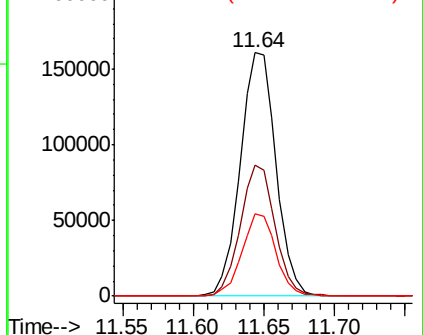
119 33.9 24.4 36.6

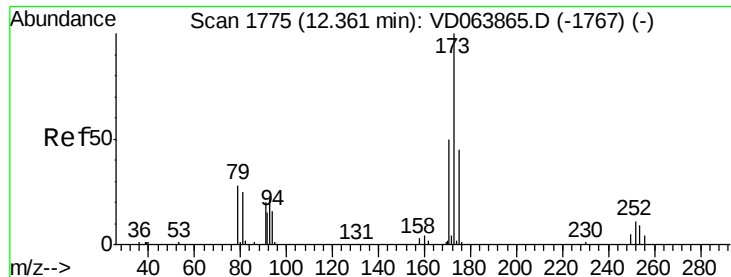


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V





#71

Bromoform

Concen: 1.095 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.27 min

Lab File: VD063921.D

Acq: 10 Oct 2019 20:24

Instrument :

MSVOA_D

ClientSampleId :

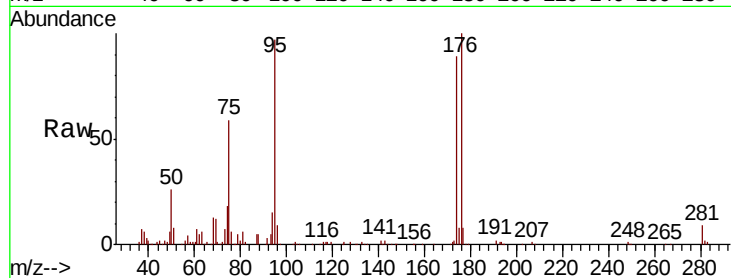
Tot Ion:173 Resp: 1237

Ion Ratio Lower Upper

173 100

175 561.6 24.6 74.0#

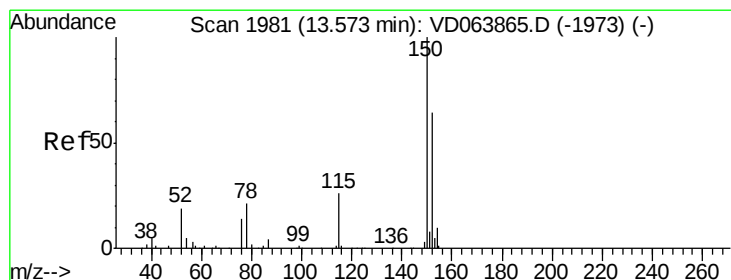
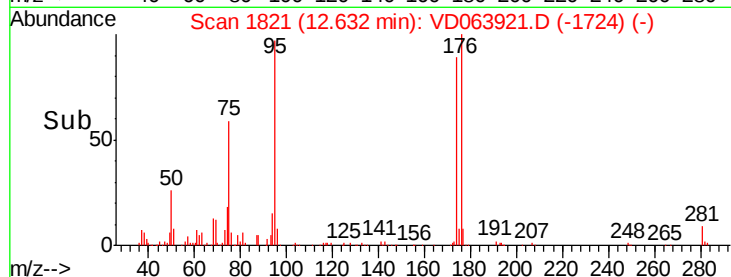
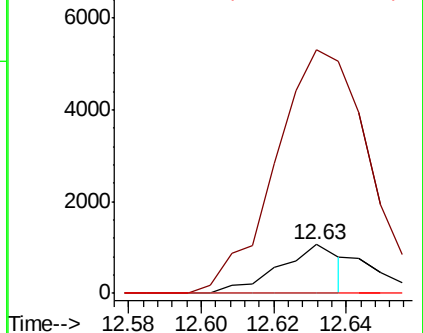
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.01 min

Lab File: VD063921.D

Acq: 10 Oct 2019 20:24

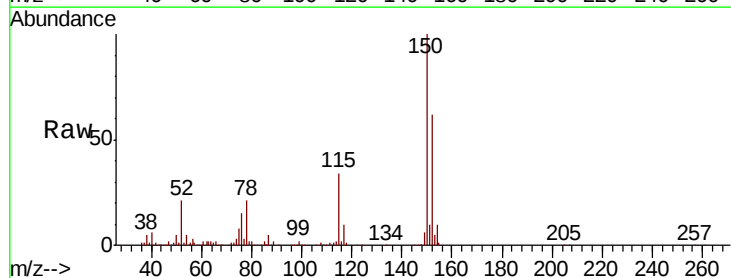
Tgt Ion:152 Resp: 136674

Ion Ratio Lower Upper

152 100

115 54.0 25.9 77.7

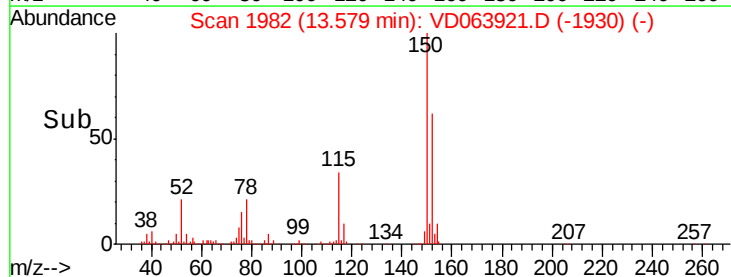
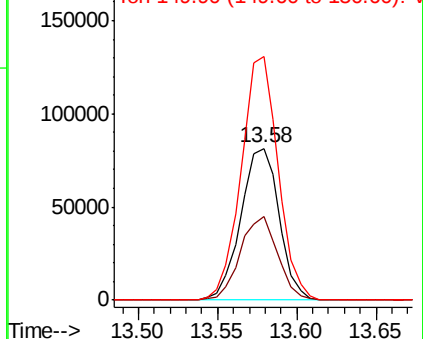
150 154.7 0.0 344.2

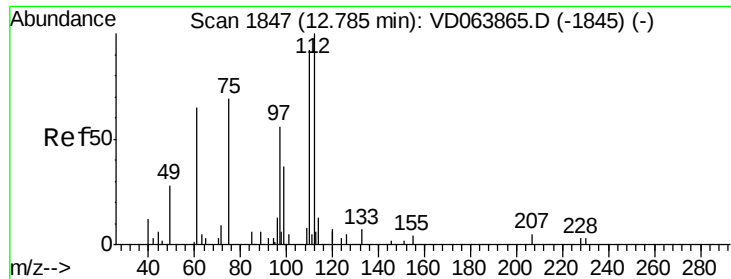


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

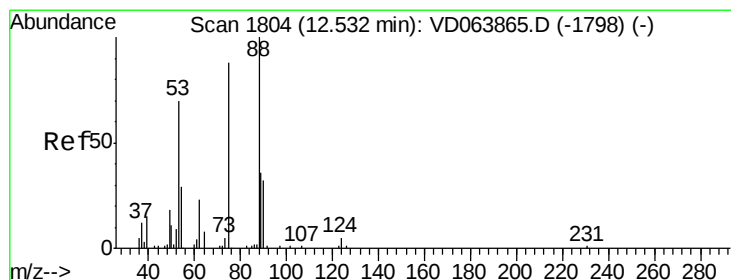
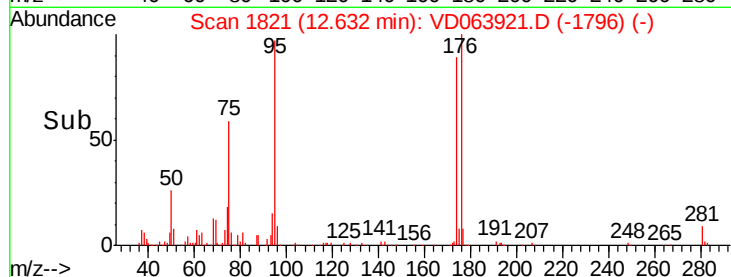
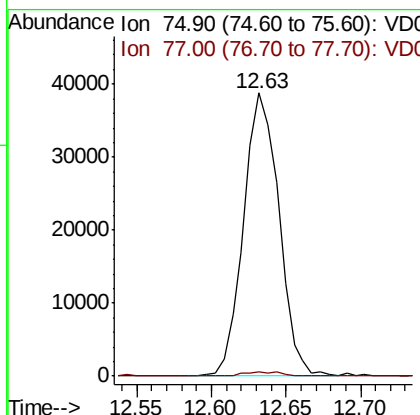
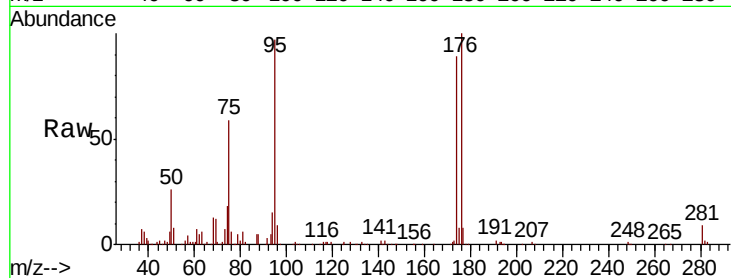




#76
 1,2,3-Trichloropropane
 Concen: 69.461 ug/l
 RT: 12.63 min Scan# 1821
 Delta R.T. -0.15 min
 Lab File: VD063921.D
 Acq: 10 Oct 2019 20:24

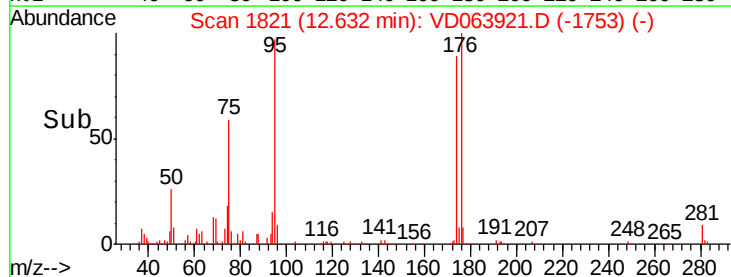
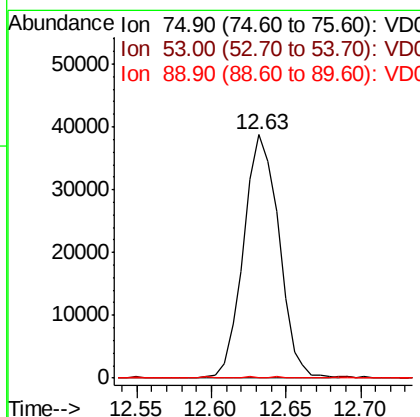
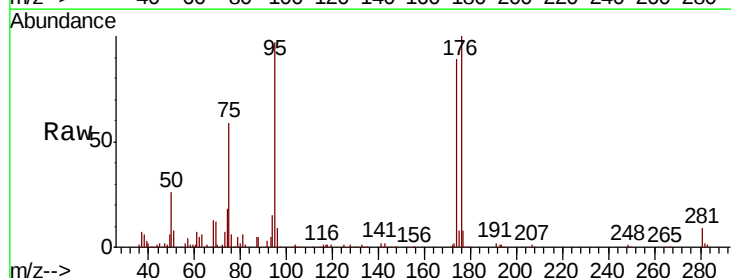
Instrument :
 MSVOA_D
 ClientSampleId :

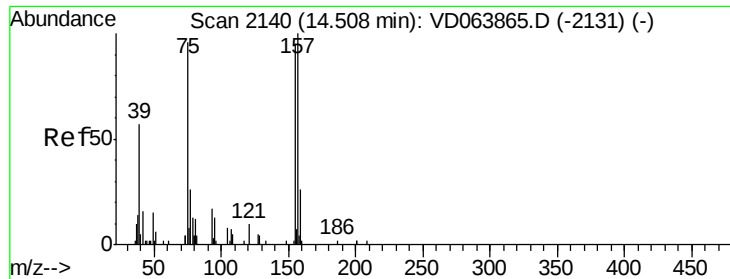
Tot Ion: 75 Resp: 63585
 Ion Ratio Lower Upper
 75 100
 77 1.5 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 122.918 ug/l
 RT: 12.63 min Scan# 1821
 Delta R.T. 0.10 min
 Lab File: VD063921.D
 Acq: 10 Oct 2019 20:24

Tgt Ion: 75 Resp: 63585
 Ion Ratio Lower Upper
 75 100
 53 0.0 75.0 112.6#
 89 0.1 38.2 57.4#





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.56 min Scan# 2148

Delta R.T. 0.05 min

Lab File: VD063921.D

Acq: 10 Oct 2019 20:24

Instrument :

MSVOA_D

ClientSampleId :

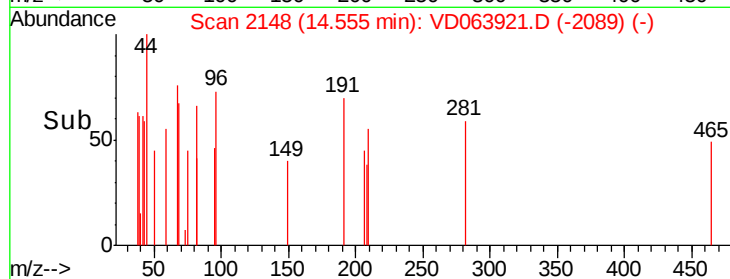
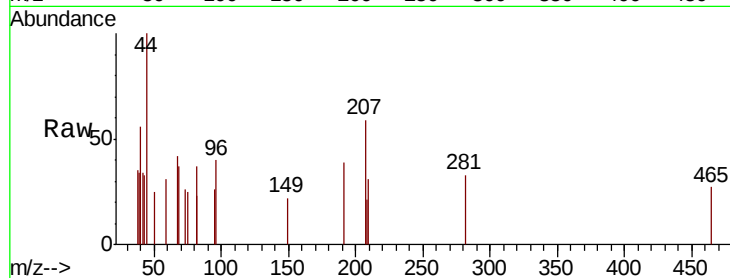
Tot Ion: 75 Resp: 63

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

