

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD101619\
 Data File : VD063990.D
 Acq On : 16 Oct 2019 16:43
 Operator : VA/SY
 Sample : K5153-01
 Misc : 6.25G/5.00ml/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 16 18:09:30 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	150768	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	293633	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	306114	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	136276	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	92922	63.31	ug/l	0.00
Spiked Amount			Recovery	=	126.62%	
35) Dibromofluoromethane	7.91	113	89968	50.14	ug/l	0.00
Spiked Amount			Recovery	=	100.28%	
50) Toluene-d8	10.34	98	405512	55.68	ug/l	0.00
Spiked Amount			Recovery	=	111.36%	
62) 4-Bromofluorobenzene	12.63	95	122408	48.36	ug/l	0.00
Spiked Amount			Recovery	=	96.72%	

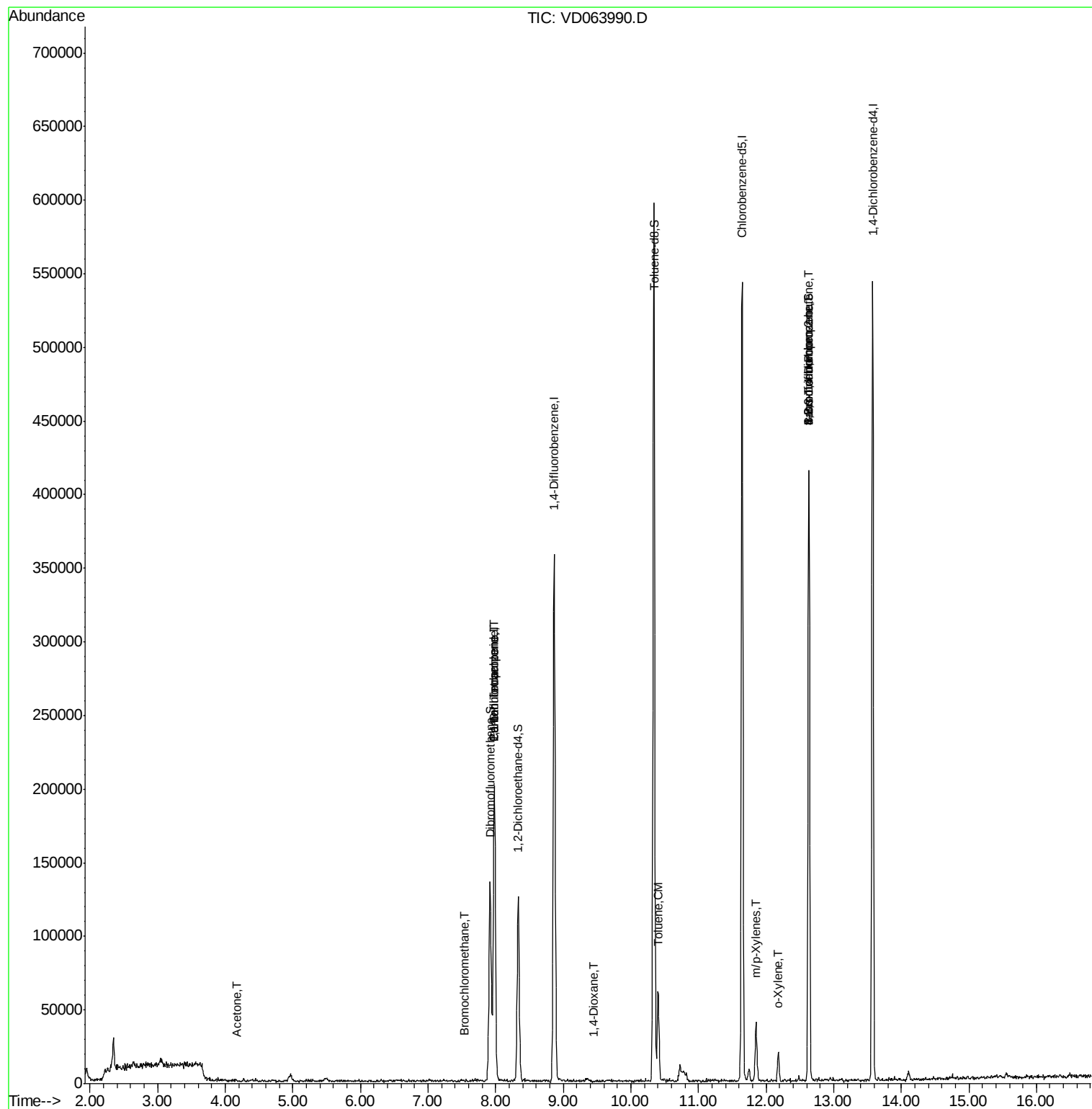
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.21	50	439	Below Cal	#	74
11) Tert butyl alcohol	5.26	59	95	Below Cal	#	71
16) Acetone	4.18	43	709	1.855	ug/l #	42
20) Methylene Chloride	4.96	84	1747	Below Cal	#	82
28) Bromochloromethane	7.54	49	84	1.945	ug/l #	10
31) Cyclohexane	7.98	56	3431	Below Cal	#	1
36) 1,1-Dichloropropene	7.98	75	11528	4.294	ug/l #	50
37) Ethyl Acetate	7.33	43	60	Below Cal	#	68
38) Carbon Tetrachloride	7.98	117	14118	5.204	ug/l #	20
49) 1,4-Dioxane	9.46	88	69	4.713	ug/l #	4
52) Toluene	10.40	92	25648	4.856	ug/l	100
68) m/p-Xylenes	11.85	106	13017	3.042	ug/l	91
69) o-Xylene	12.18	106	5496	1.341	ug/l	84
71) Bromoform	12.63	173	1656	1.362	ug/l #	28
76) 1,2,3-Trichloropropane	12.63	75	65144	71.372	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	65144	126.300	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.50	75	102	Below Cal	#	1

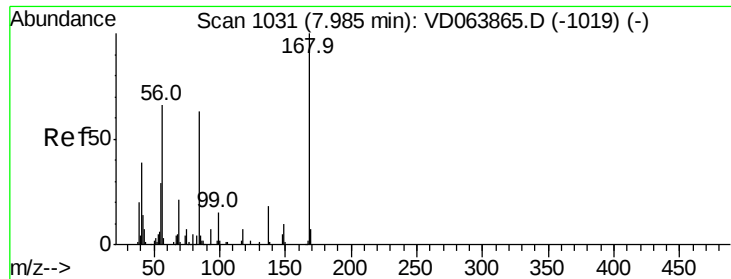
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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: VD063990.D

Acq: 16 Oct 2019 16:43

Instrument :

MSVOA_D

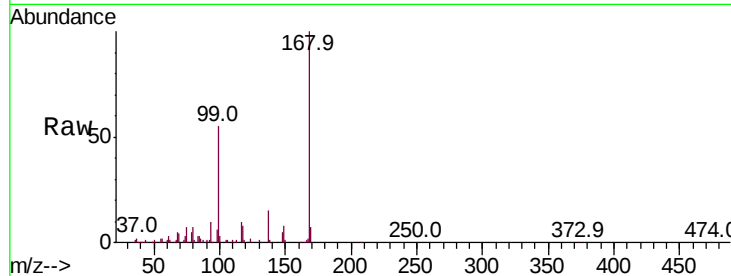
ClientSampleId :

Tot Ion:168 Resp: 150768

Ion Ratio Lower Upper

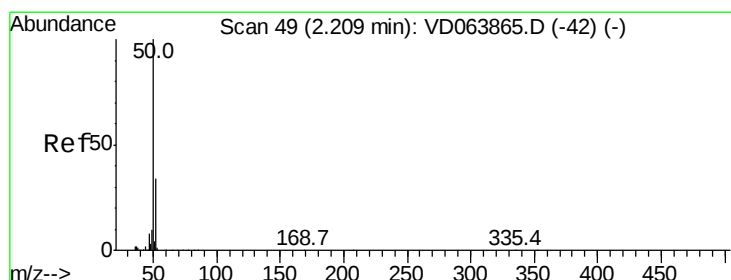
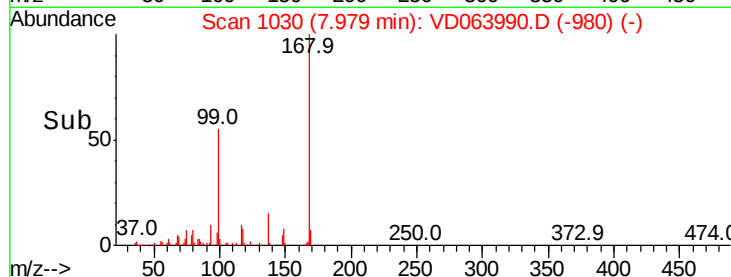
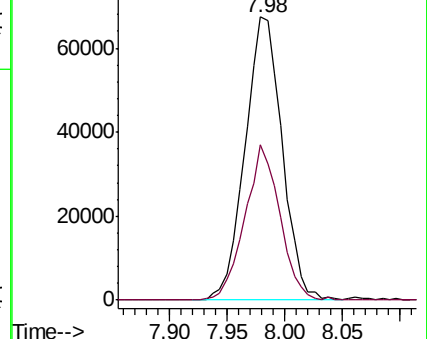
168 100

99 54.8 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: VD063990.D

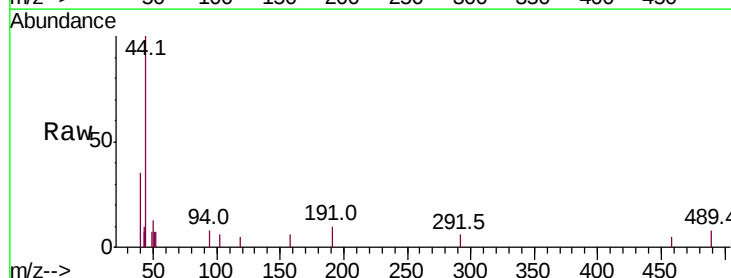
Acq: 16 Oct 2019 16:43

Tgt Ion: 50 Resp: 439

Ion Ratio Lower Upper

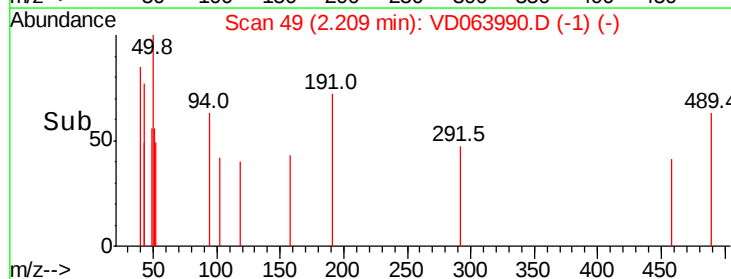
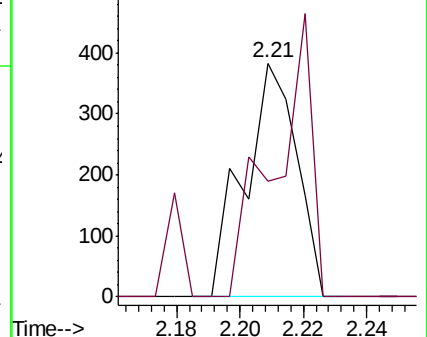
50 100

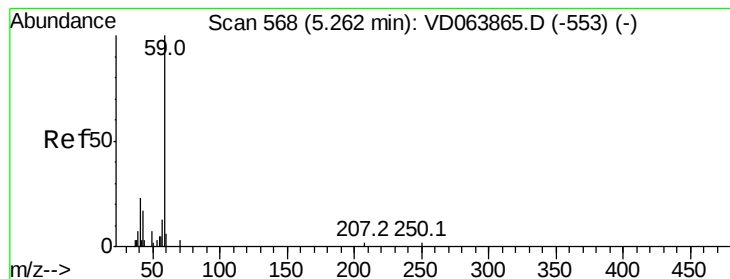
52 49.3 27.5 41.3#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



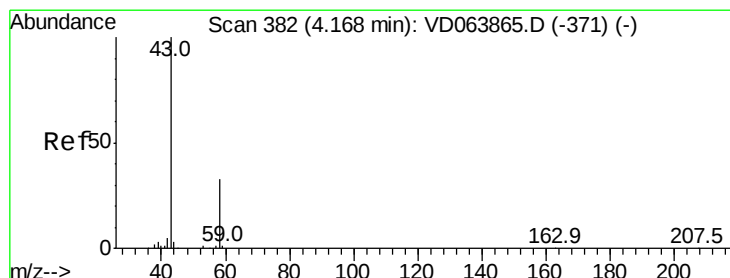
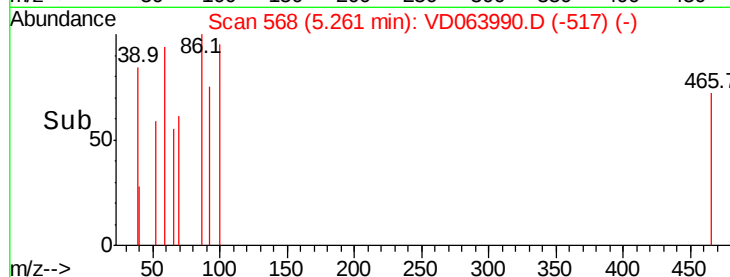
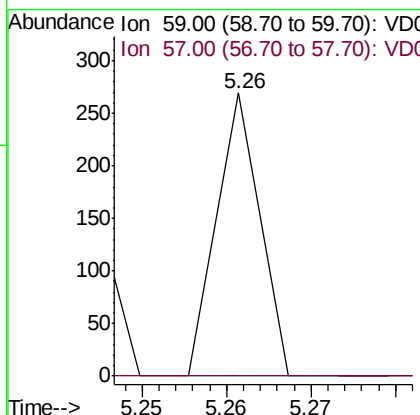
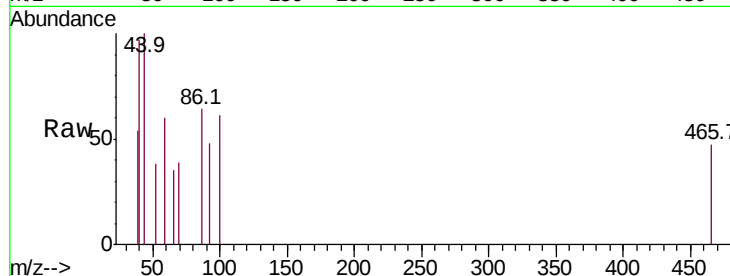


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.26 min Scan# 568
 Delta R.T. 0.00 min
 Lab File: VD063990.D
 Acq: 16 Oct 2019 16:43

Instrument :
 MSVOA_D
 ClientSampled :

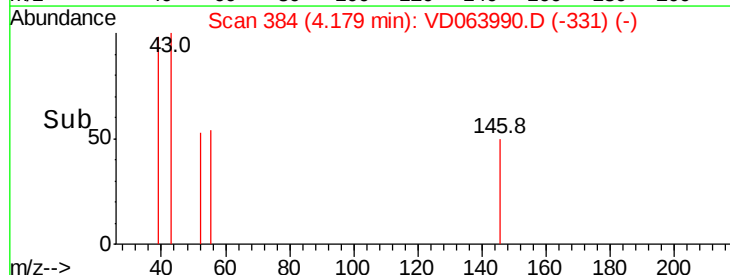
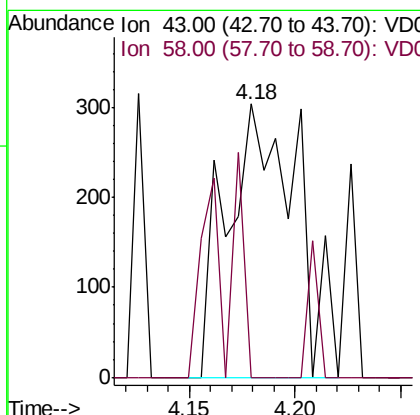
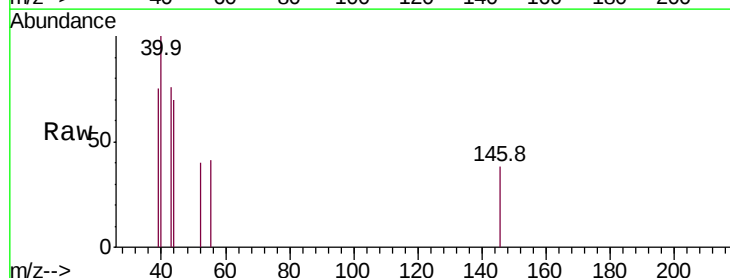
Tot Ion: 59 Resp: 95
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.8 13.2#

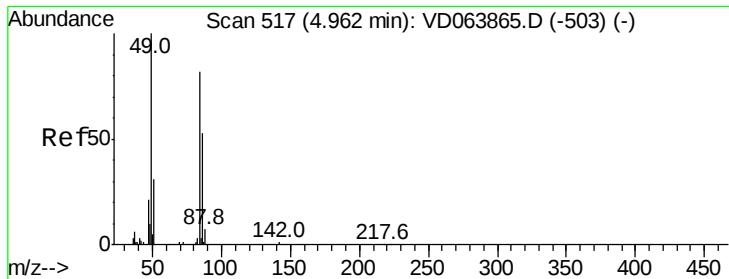


#16

Acetone
 Concen: 1.855 ug/l
 RT: 4.18 min Scan# 384
 Delta R.T. 0.01 min
 Lab File: VD063990.D
 Acq: 16 Oct 2019 16:43

Tgt Ion: 43 Resp: 709
 Ion Ratio Lower Upper
 43 100
 58 0.0 26.2 39.4#





#20

Methvlene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 517

Delta R.T. 0.00 min

Lab File: VD063990.D

Acq: 16 Oct 2019 16:43

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 84 Resp: 1747

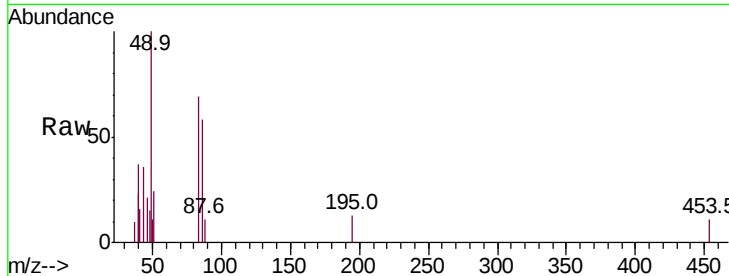
Ion Ratio Lower Upper

84 100

49 114.0 97.3 145.9

51 11.7 30.1 45.1#

86 83.2 51.4 77.2#

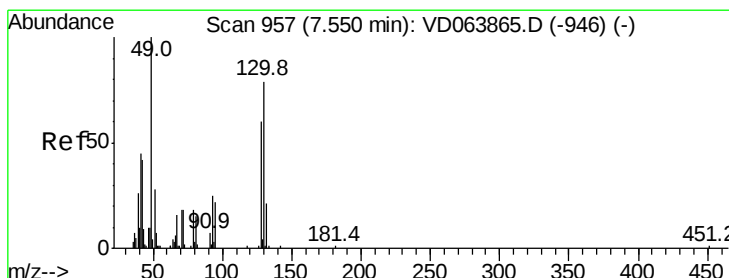
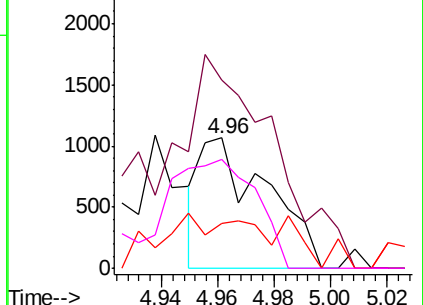
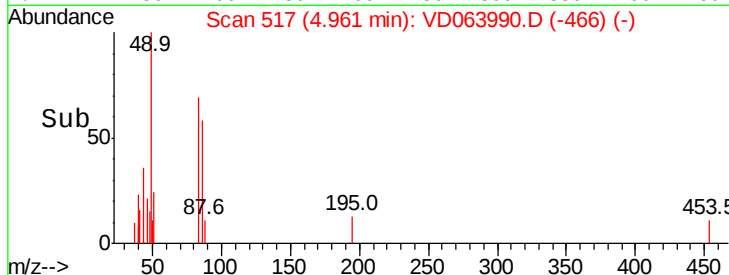


Abundance Ion 83.90 (83.60 to 84.60): VDC

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: 1.945 ug/l

RT: 7.54 min Scan# 956

Delta R.T. -0.01 min

Lab File: VD063990.D

Acq: 16 Oct 2019 16:43

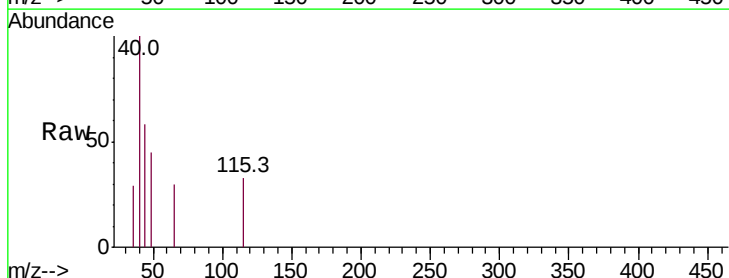
Tgt Ion: 49 Resp: 84

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.6

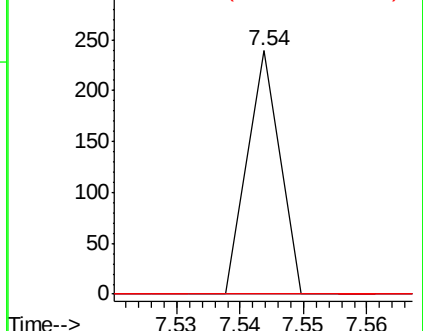
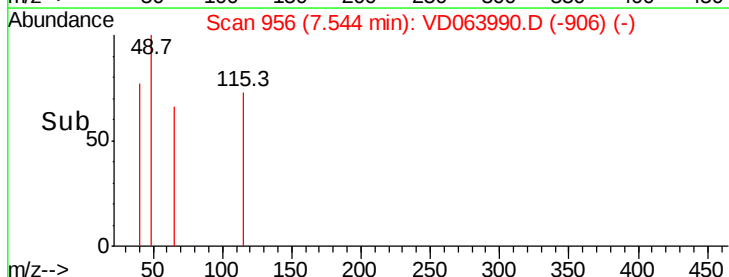
130 0.0 66.8 100.2#

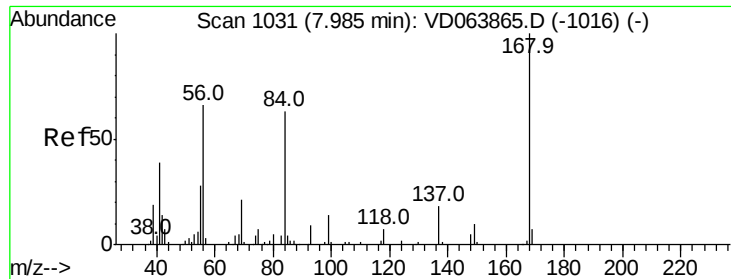


Abundance Ion 48.90 (48.60 to 49.60): VDC

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

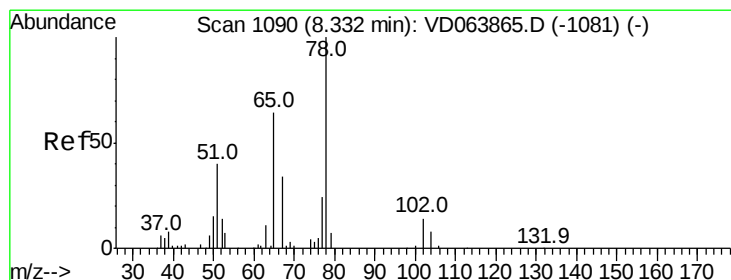
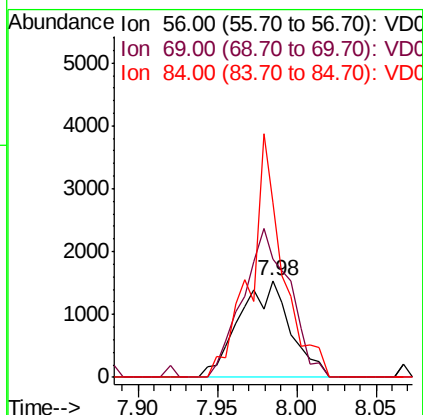
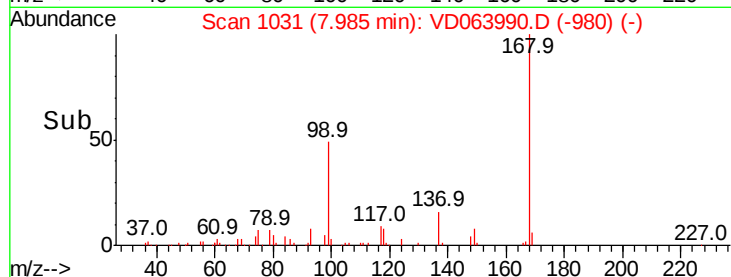
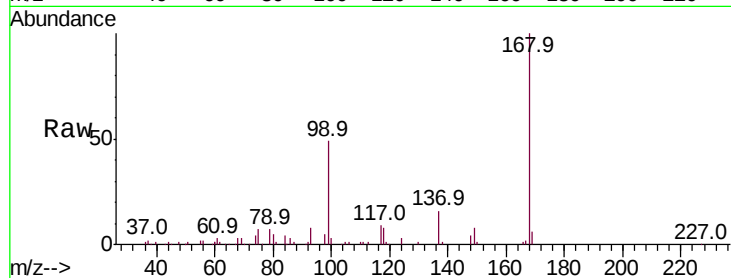




#31
Cyclohexane
Concen: Below Cal
RT: 7.98 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VD063990.D
Acq: 16 Oct 2019 16:43

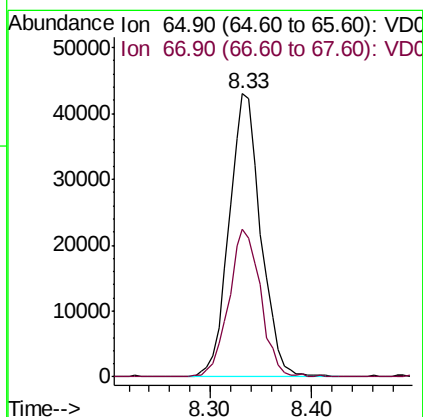
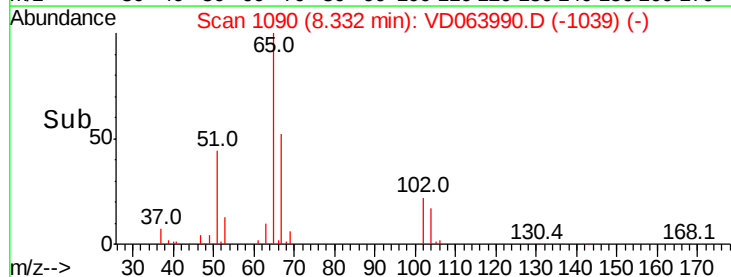
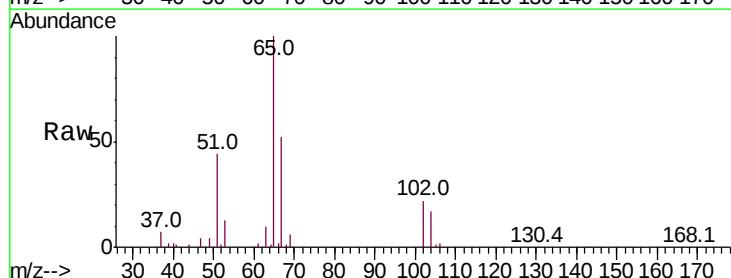
Instrument :
MSVOA_D
ClientSampleId :

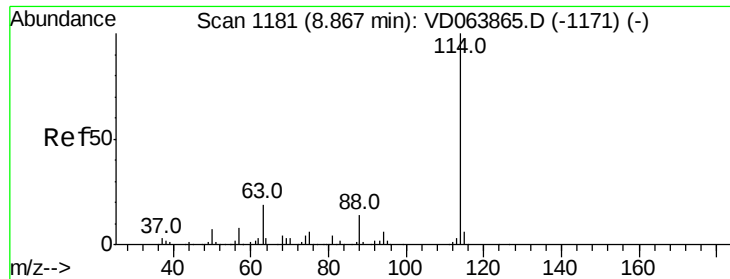
Tot Ion: 56 Resp: 3431
Ion Ratio Lower Upper
56 100
69 122.2 25.0 37.4#
84 191.6 76.3 114.5#



#33
1,2-Dichloroethane-d4
Concen: 63.305 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. -0.00 min
Lab File: VD063990.D
Acq: 16 Oct 2019 16:43

Tgt Ion: 65 Resp: 92922
Ion Ratio Lower Upper
65 100
67 52.6 0.0 106.4

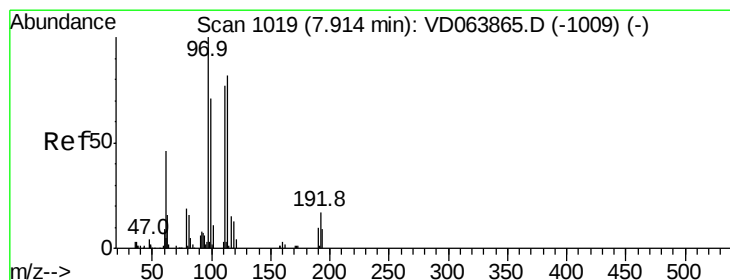
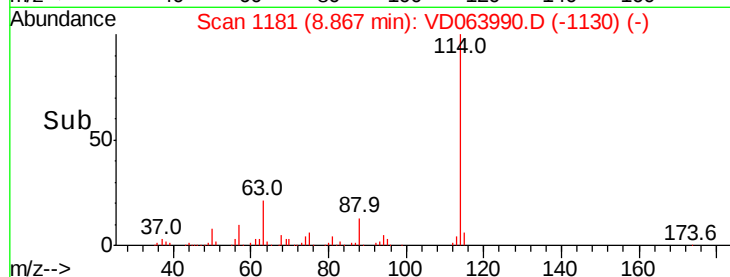
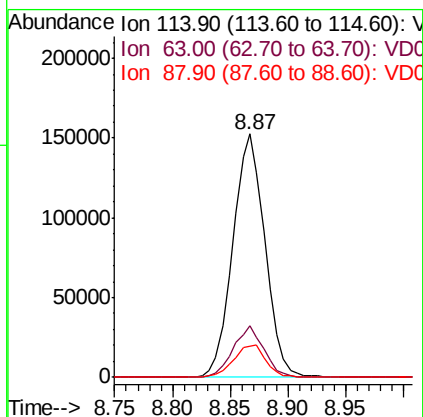
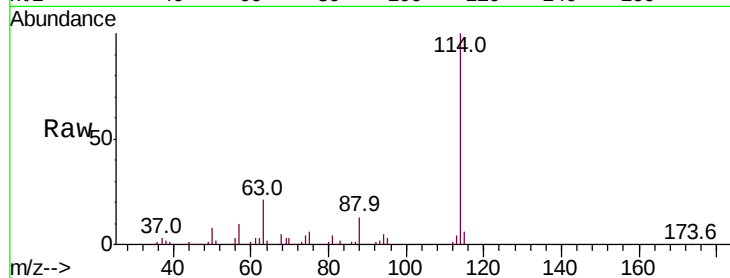




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD063990.D
 Acq: 16 Oct 2019 16:43

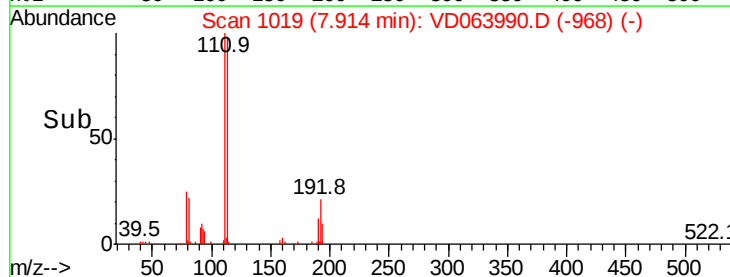
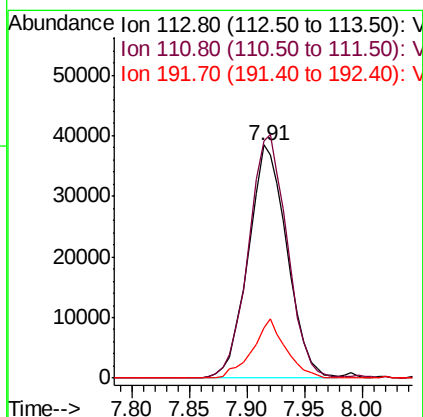
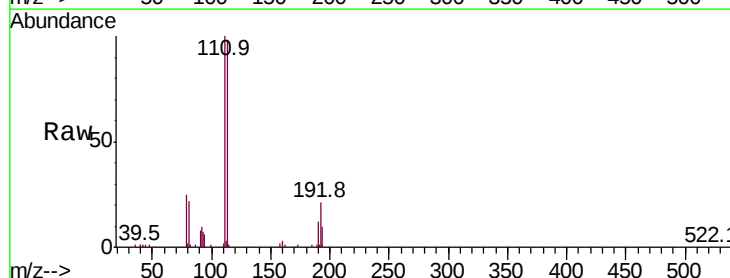
Instrument :
 MSVOA_D
 ClientSampleId :

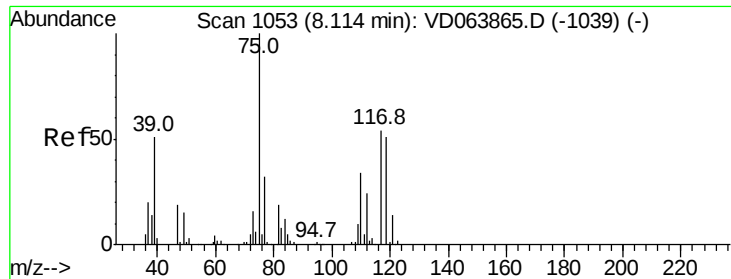
Tot Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	38.4
88	13.0	0.0	27.4



#35
 Dibromofluoromethane
 Concen: 50.136 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. -0.00 min
 Lab File: VD063990.D
 Acq: 16 Oct 2019 16:43

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.1	82.6	123.8
192	21.7	17.1	25.7

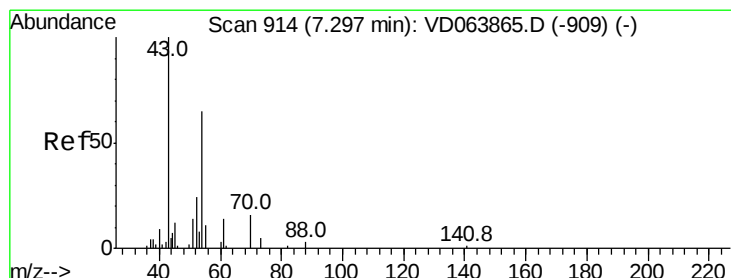
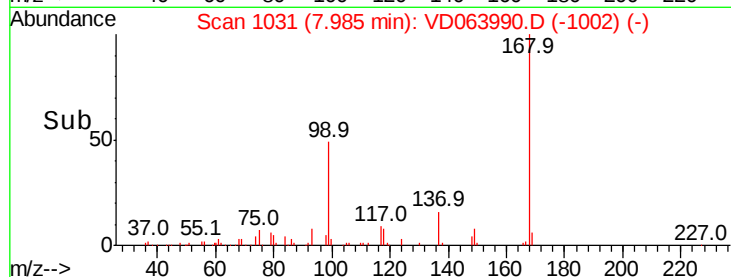
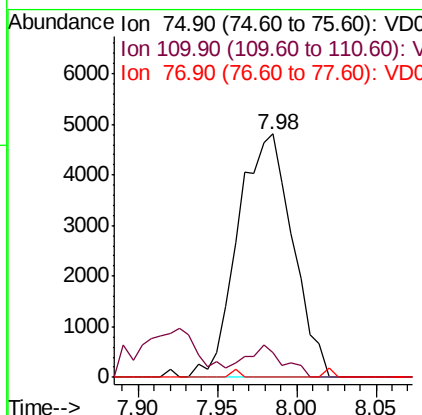
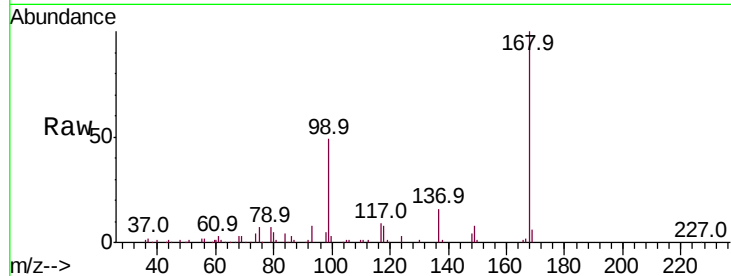




#36
 1,1-Dichloropropene
 Concen: 4.294 ug/l
 RT: 7.98 min Scan# 1031
 Delta R.T. -0.13 min
 Lab File: VD063990.D
 Acq: 16 Oct 2019 16:43

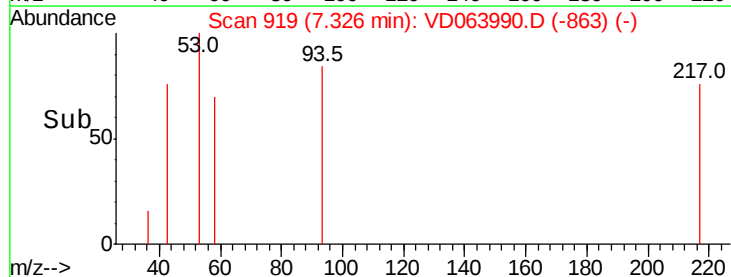
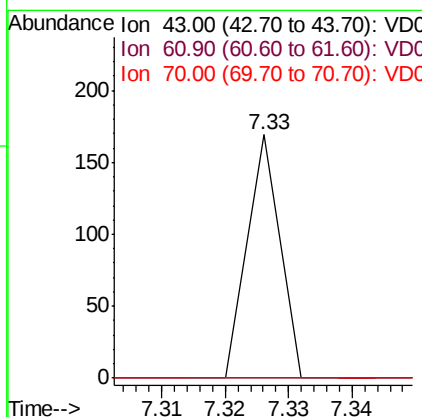
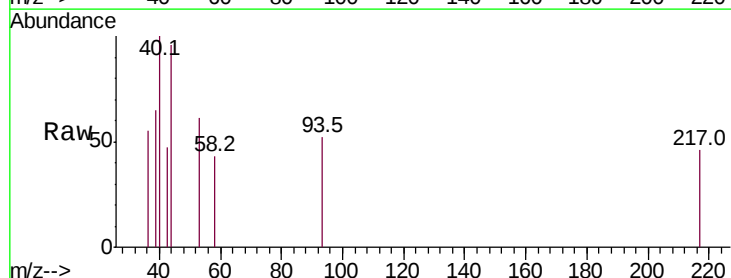
Instrument :
 MSVOA_D
 ClientSampled :

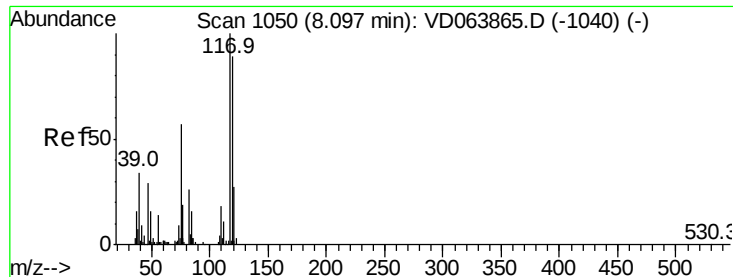
Tot Ion: 75 Resp: 11528
 Ion Ratio Lower Upper
 75 100
 110 9.1 17.4 52.3#
 77 0.0 25.4 38.0#



#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 7.33 min Scan# 919
 Delta R.T. 0.03 min
 Lab File: VD063990.D
 Acq: 16 Oct 2019 16:43

Tgt Ion: 43 Resp: 60
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.5 17.3#
 70 0.0 8.2 12.4#





#38

Carbon Tetrachloride

Concen: 5.204 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD063990.D

Acq: 16 Oct 2019 16:43

Instrument :

MSVOA_D

ClientSampleId :

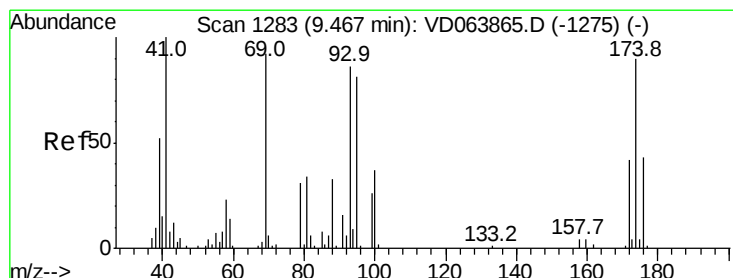
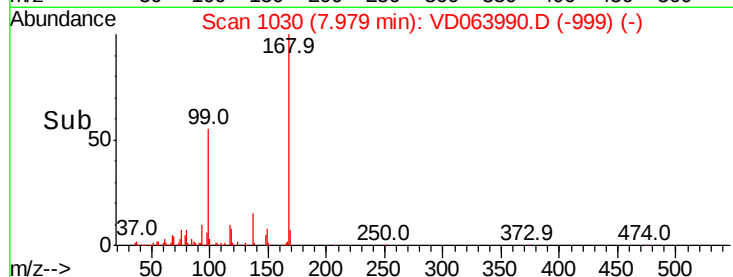
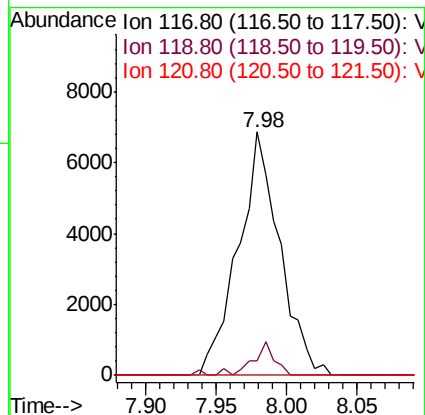
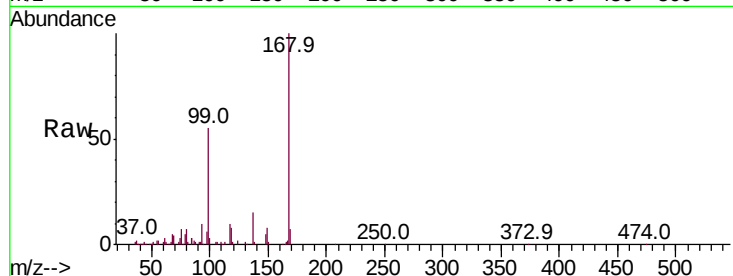
Tot Ion:117 Resp: 14118

Ion Ratio Lower Upper

117 100

119 6.0 70.8 106.2#

121 0.0 21.4 32.0#



#49

1,4-Dioxane

Concen: 4.713 ug/l

RT: 9.46 min Scan# 1282

Delta R.T. -0.01 min

Lab File: VD063990.D

Acq: 16 Oct 2019 16:43

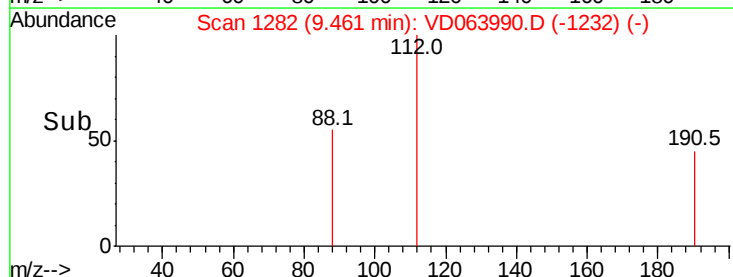
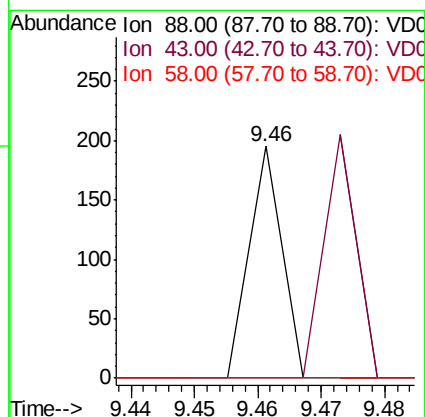
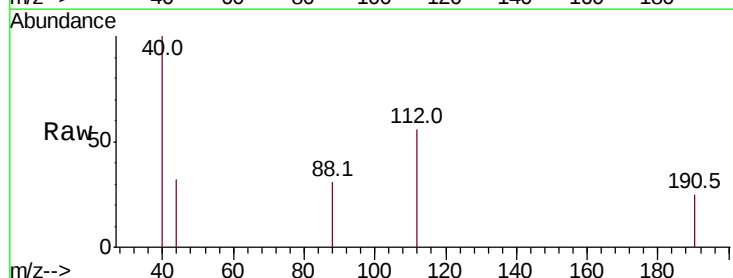
Tgt Ion: 88 Resp: 69

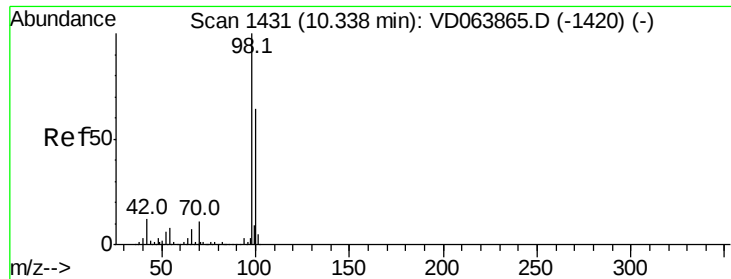
Ion Ratio Lower Upper

88 100

43 104.3 27.6 41.4#

58 0.0 54.1 81.1#

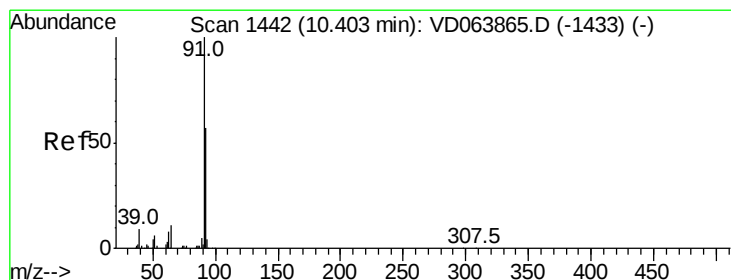
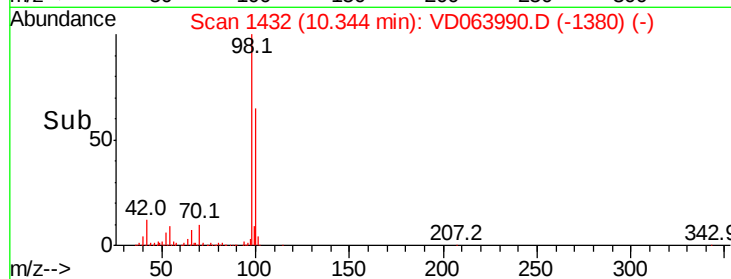
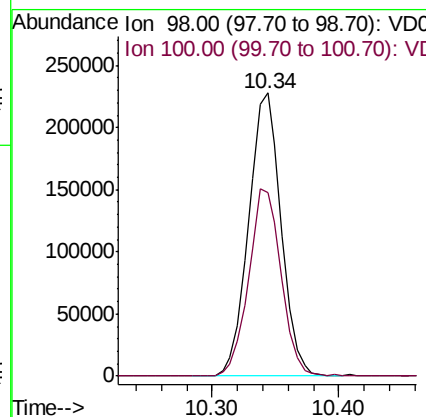
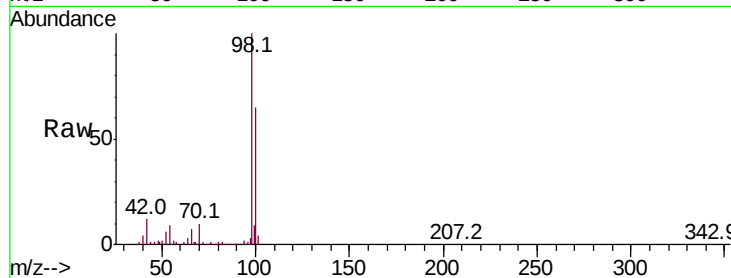




#50
Toluene-d8
Concen: 55.675 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.01 min
Lab File: VD063990.D
Acq: 16 Oct 2019 16:43

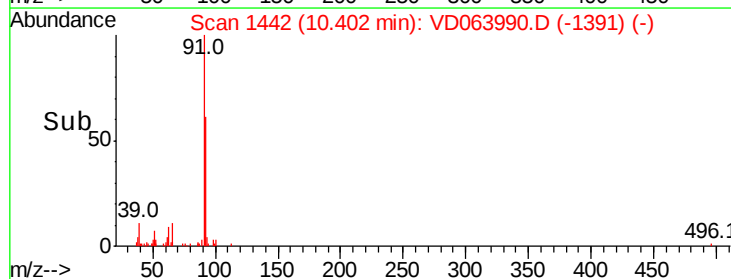
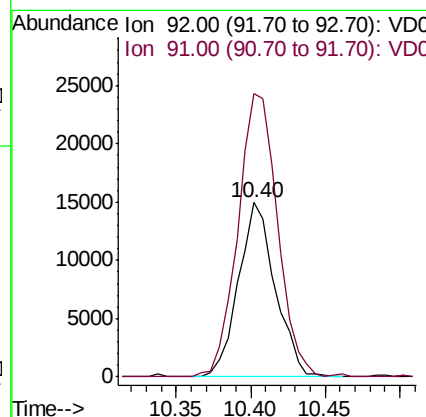
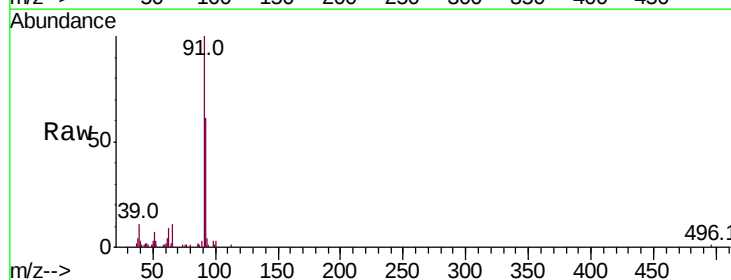
Instrument :
MSVOA_D
ClientSampleId :

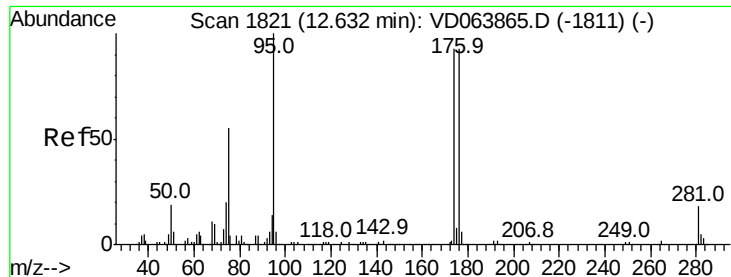
Tot Ion: 98 Resp: 405512
Ion Ratio Lower Upper
98 100
100 66.4 52.1 78.1



#52
Toluene
Concen: 4.856 ug/l
RT: 10.40 min Scan# 1442
Delta R.T. -0.00 min
Lab File: VD063990.D
Acq: 16 Oct 2019 16:43

Tgt Ion: 92 Resp: 25648
Ion Ratio Lower Upper
92 100
91 174.3 139.5 209.3





#62

4-Bromofluorobenzene

Concen: 48.363 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.00 min

Lab File: VD063990.D

Acq: 16 Oct 2019 16:43

Instrument :

MSVOA_D

ClientSampleId :

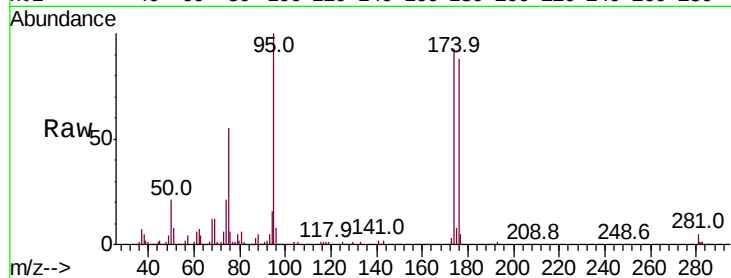
Tot Ion: 95 Resp: 122408

Ion Ratio Lower Upper

95 100

174 93.2 0.0 186.4

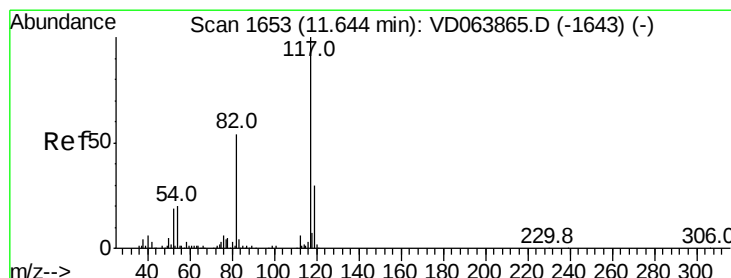
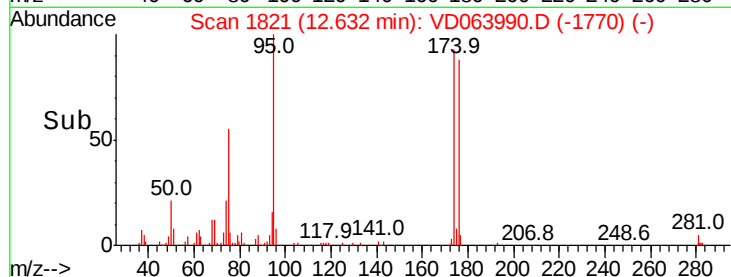
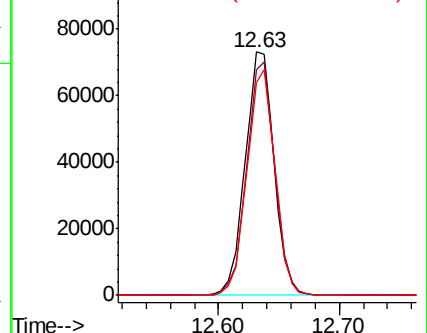
176 90.0 0.0 184.2



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: 11.65 min Scan# 1654

Delta R.T. 0.01 min

Lab File: VD063990.D

Acq: 16 Oct 2019 16:43

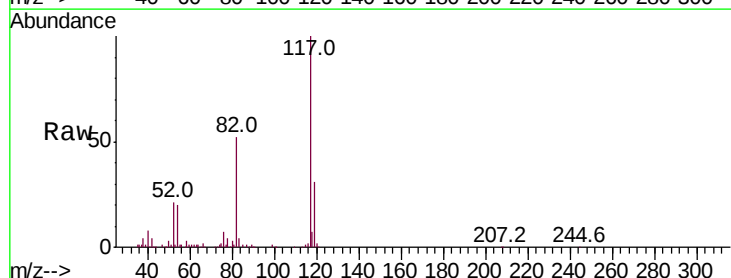
Tgt Ion: 117 Resp: 306114

Ion Ratio Lower Upper

117 100

82 52.3 42.8 64.2

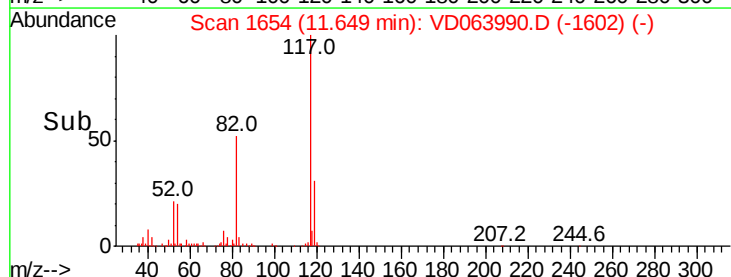
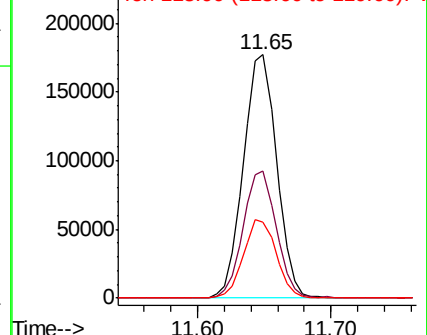
119 31.0 24.4 36.6

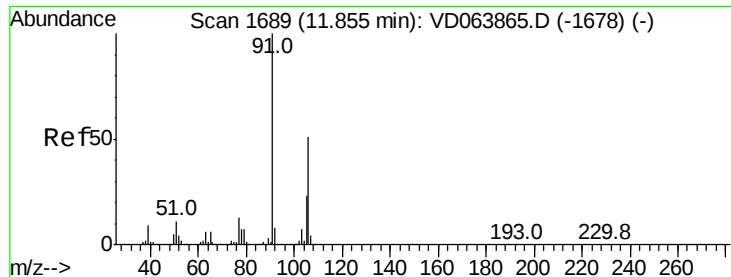


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V





#68

m/p-Xylenes

Concen: 3.042 ug/l

RT: 11.85 min Scan# 1688

Delta R.T. -0.01 min

Lab File: VD063990.D

Acq: 16 Oct 2019 16:43

Instrument :

MSVOA_D

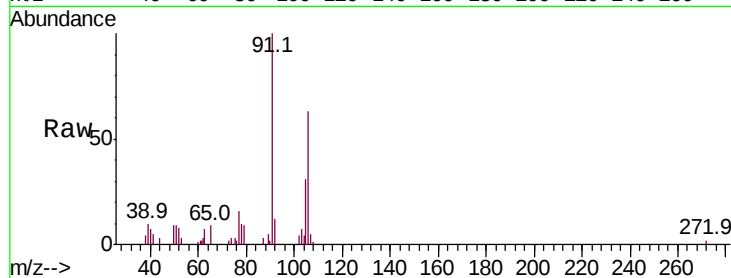
ClientSampleId :

Tot Ion:106 Resp: 13017

Ion Ratio Lower Upper

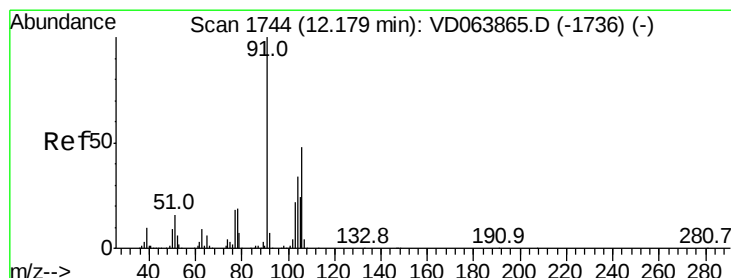
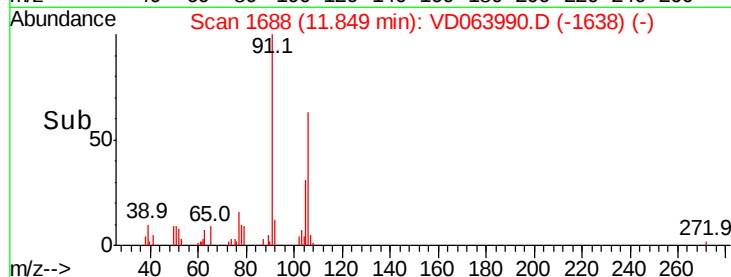
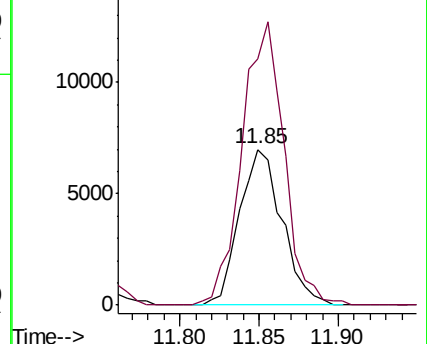
106 100

91 180.4 154.8 232.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): V



#69

o-Xylene

Concen: 1.341 ug/l

RT: 12.18 min Scan# 1744

Delta R.T. -0.00 min

Lab File: VD063990.D

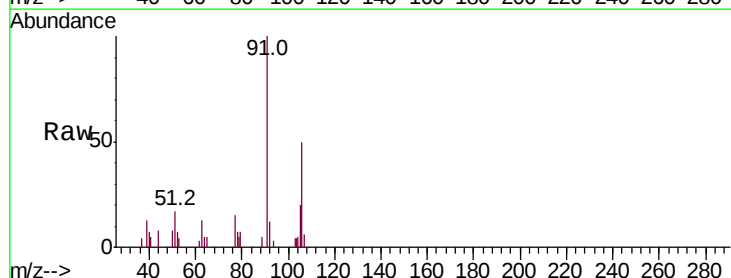
Acq: 16 Oct 2019 16:43

Tgt Ion:106 Resp: 5496

Ion Ratio Lower Upper

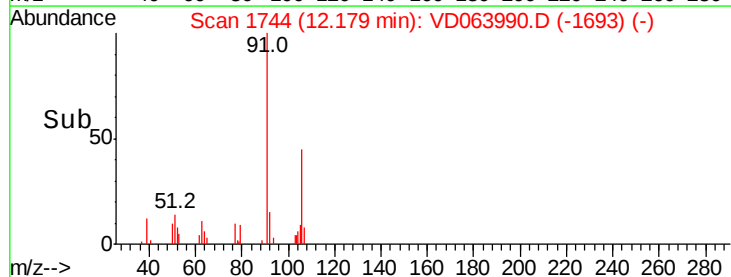
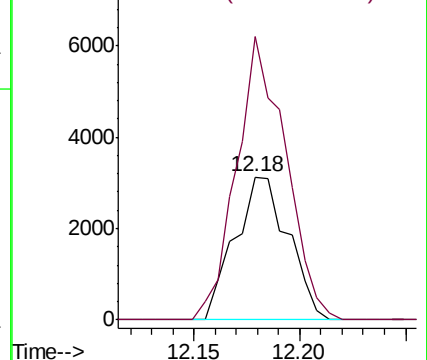
106 100

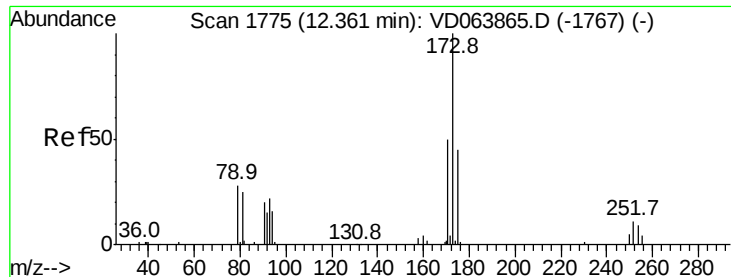
91 182.3 103.9 311.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): V





#71

Bromoform

Concen: 1.362 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.27 min

Lab File: VD063990.D

Acq: 16 Oct 2019 16:43

Instrument :

MSVOA_D

ClientSampleId :

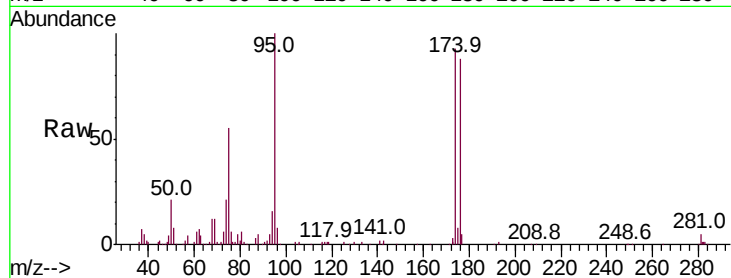
Tot Ion:173 Resp: 1656

Ion Ratio Lower Upper

173 100

175 0.0 24.6 74.0#

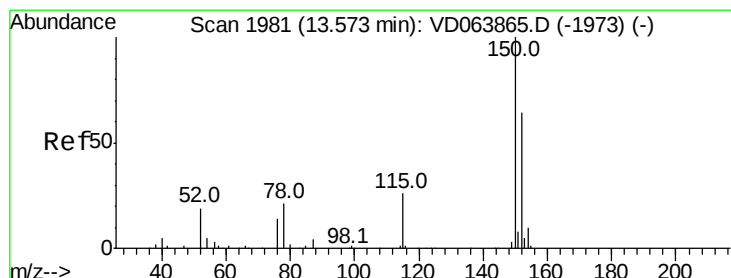
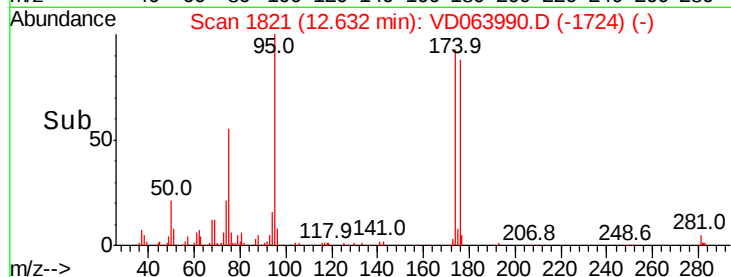
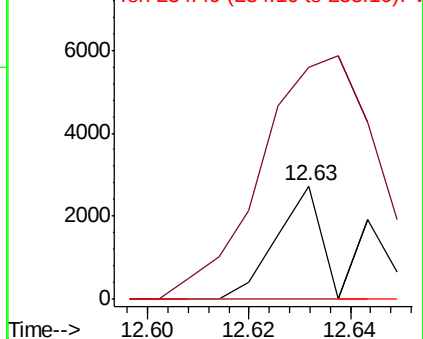
254 0.0 0.0 0.0



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: VD063990.D

Acq: 16 Oct 2019 16:43

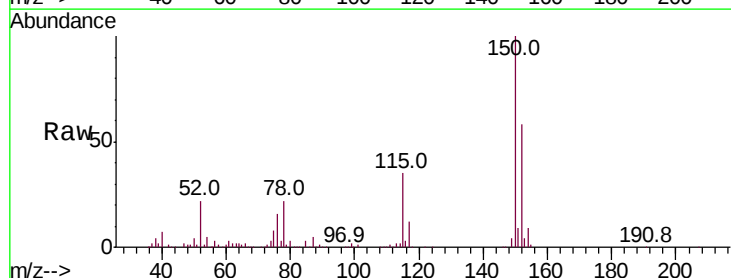
Tgt Ion:152 Resp: 136276

Ion Ratio Lower Upper

152 100

115 56.3 25.9 77.7

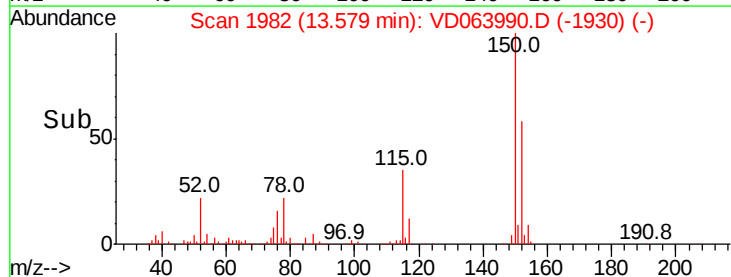
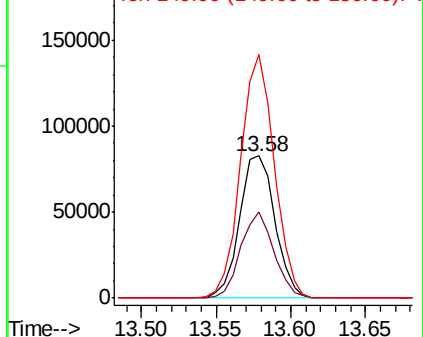
150 162.7 0.0 344.2

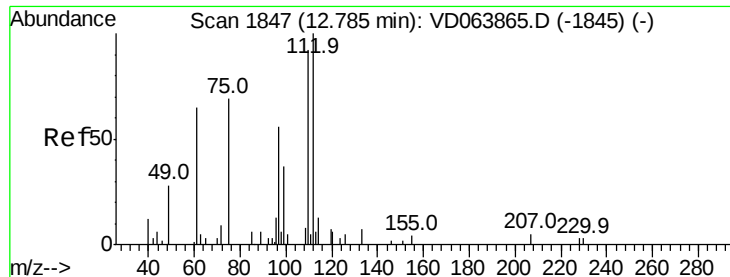


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 71.372 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD063990.D

Acq: 16 Oct 2019 16:43

Instrument :

MSVOA_D

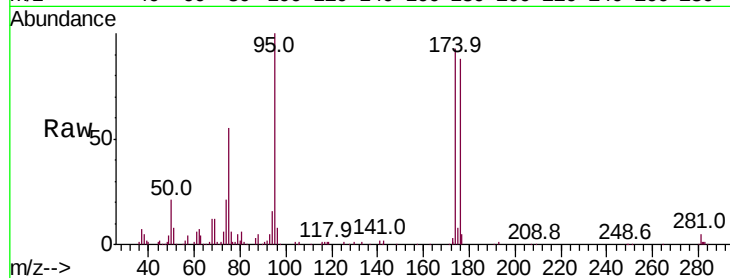
ClientSampleId :

Tot Ion: 75 Resp: 65144

Ion Ratio Lower Upper

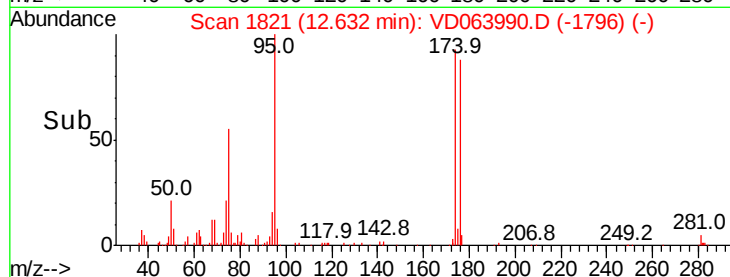
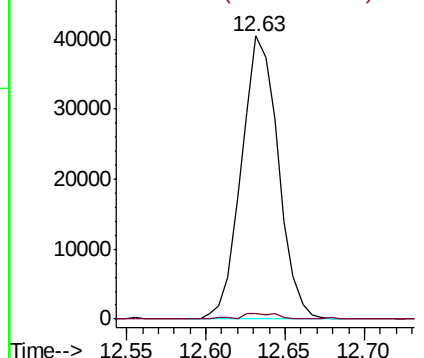
75 100

77 2.0 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: 126.300 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD063990.D

Acq: 16 Oct 2019 16:43

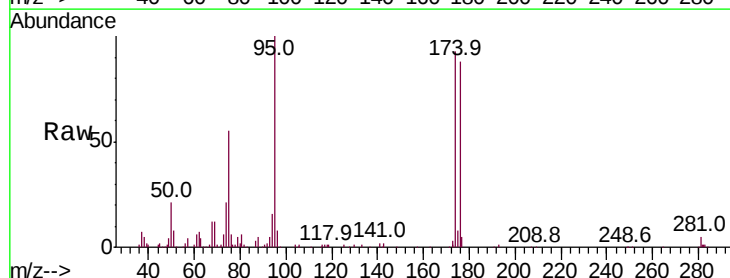
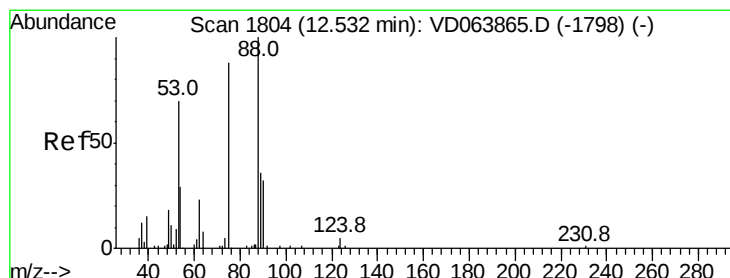
Tgt Ion: 75 Resp: 65144

Ion Ratio Lower Upper

75 100

53 0.0 75.0 112.6#

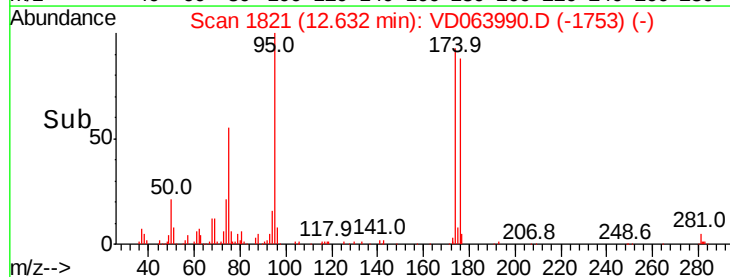
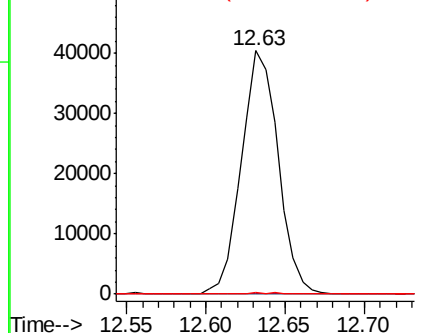
89 0.3 38.2 57.4#

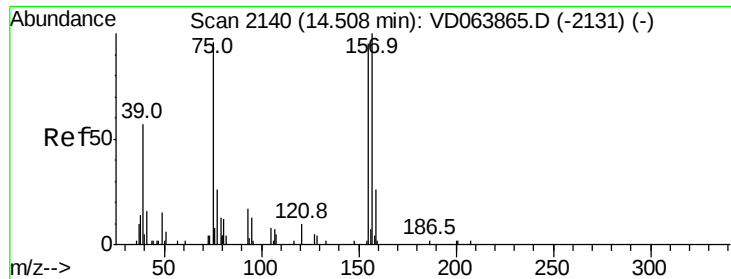


Abundance Ion 74.90 (74.60 to 75.60): VDC

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: 14.50 min Scan# 2138
 Delta R.T. -0.01 min
 Lab File: VD063990.D
 Acq: 16 Oct 2019 16:43

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 75 Resp: 102
 Ion Ratio Lower Upper
 75 100
 155 0.0 43.9 131.6#
 157 0.0 56.0 167.9#

