

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102419\
 Data File : VD064057.D
 Acq On : 24 Oct 2019 20:36
 Operator : VA/SY
 Sample : K5497-18
 Misc : 10.75G/5.00ml/MSVOA D/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 25 04:00:34 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	33113	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	60362	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	62045	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	26955	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	24704	76.63	ug/l	0.00
Spiked Amount						
			Recovery	=	153.26%	
35) Dibromofluoromethane	7.93	113	20385	55.26	ug/l	0.01
Spiked Amount						
			Recovery	=	110.52%	
50) Toluene-d8	10.34	98	76906	51.36	ug/l	0.00
Spiked Amount						
			Recovery	=	102.72%	
62) 4-Bromofluorobenzene	12.64	95	23856	45.85	ug/l	0.00
Spiked Amount						
			Recovery	=	91.70%	

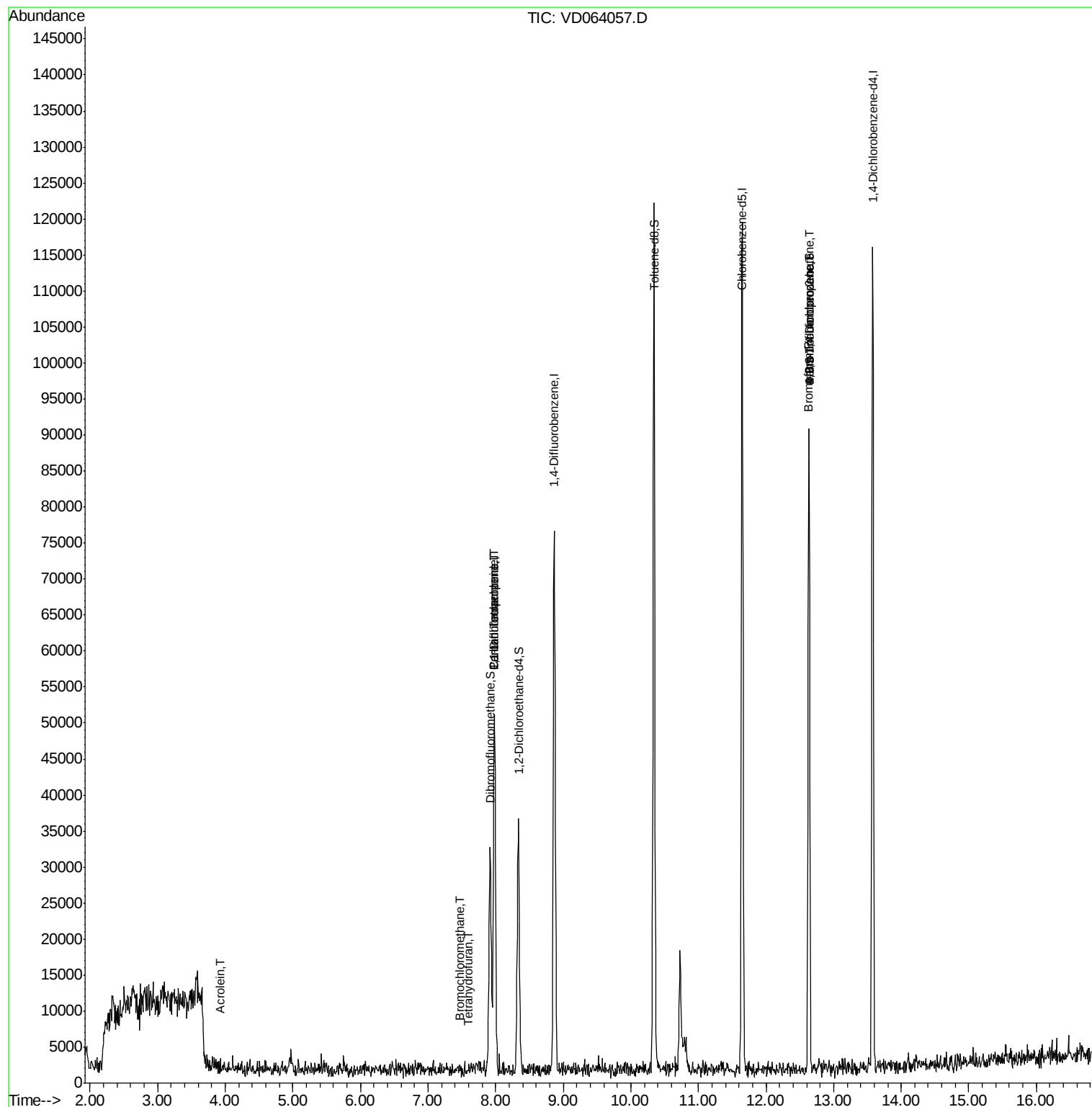
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.21	50	106	Below Cal	#	40
11) Tert butyl alcohol	5.35	59	56	Below Cal	#	71
13) Acrolein	3.92	56	133	4.619	ug/l #	17
20) Methylene Chloride	4.95	84	823	Below Cal	#	46
28) Bromochloromethane	7.47	49	58	2.117	ug/l #	10
29) Tetrahydrofuran	7.59	42	84	1.447	ug/l #	31
31) Cyclohexane	7.99	56	1233	Below Cal	#	59
36) 1,1-Dichloropropene	7.98	75	3331	6.035	ug/l #	43
37) Ethyl Acetate	7.36	43	65	Below Cal	#	68
38) Carbon Tetrachloride	7.98	117	3537	6.342	ug/l #	23
71) Bromoform	12.63	173	374	1.518	ug/l #	1
76) 1,2,3-Trichloropropane	12.63	75	14646	81.125	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	14646	143.558	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.63	75	70	Below Cal	#	1

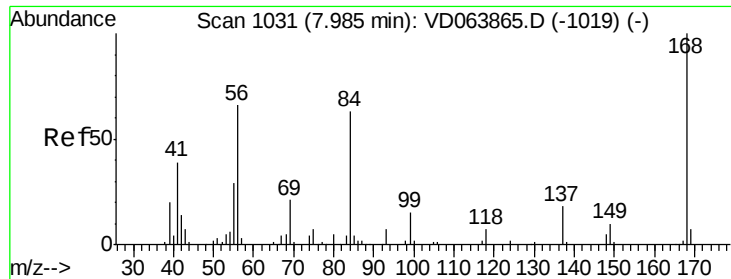
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Oct 05 03:51:17 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064057.D

Acq: 24 Oct 2019 20:36

Instrument :

MSVOA_D

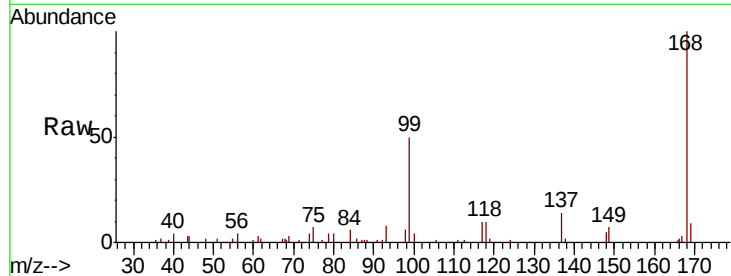
ClientSampleId :

Tot Ion:168 Resp: 33113

Ion Ratio Lower Upper

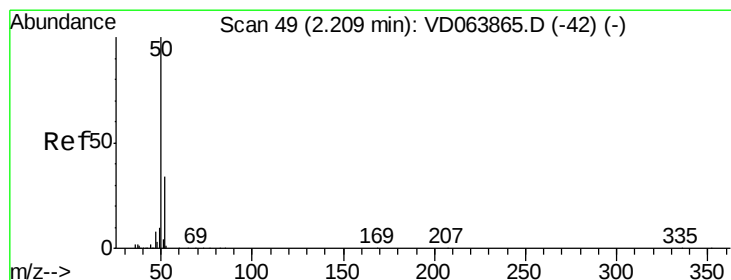
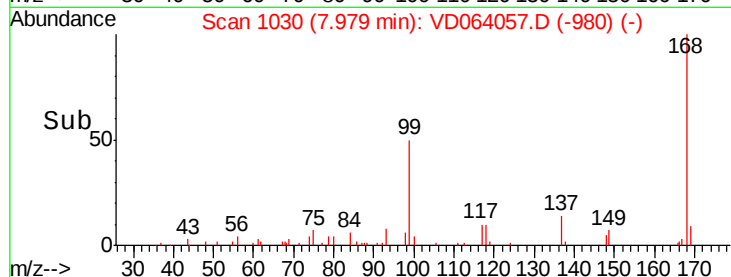
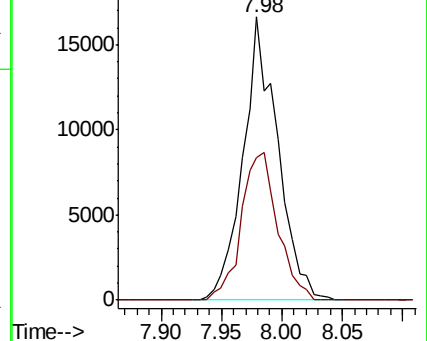
168 100

99 50.2 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: VD064057.D

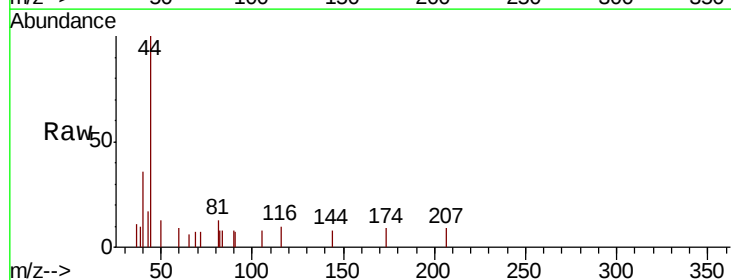
Acq: 24 Oct 2019 20:36

Tgt Ion: 50 Resp: 106

Ion Ratio Lower Upper

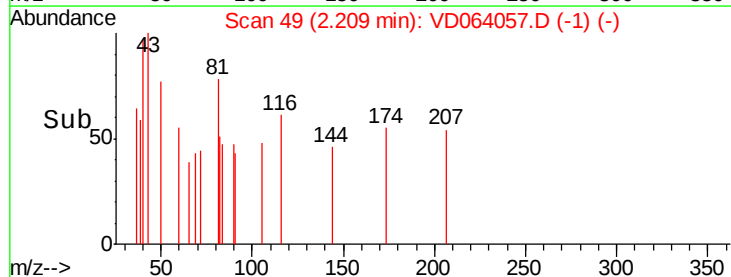
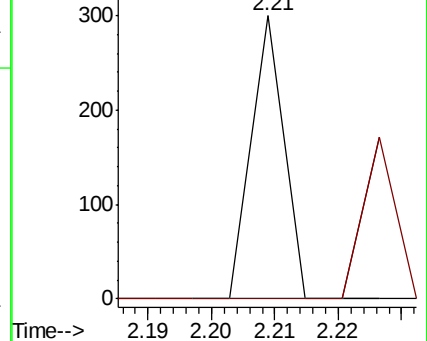
50 100

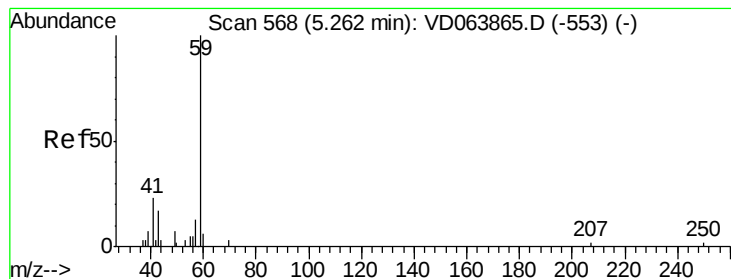
52 0.0 27.5 41.3#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



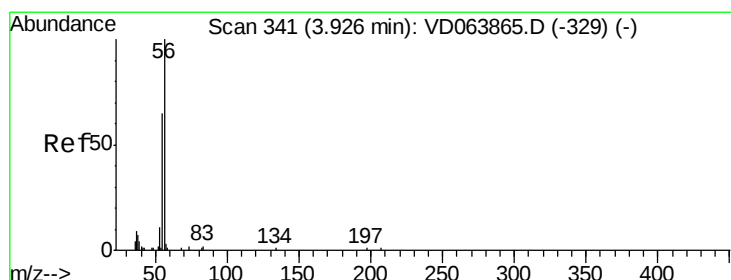
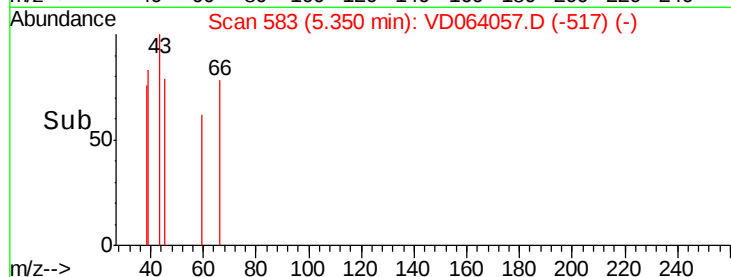
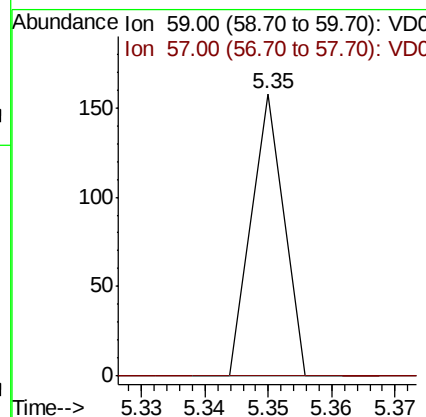
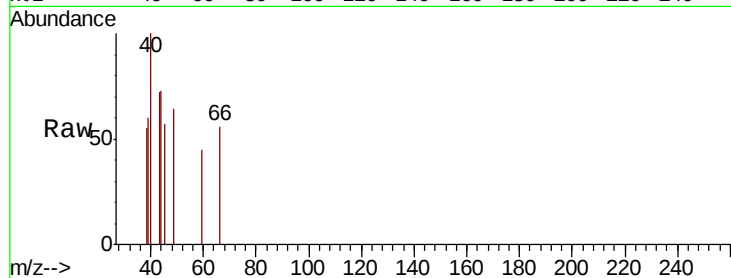


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.35 min Scan# 583
 Delta R.T. 0.09 min
 Lab File: VD064057.D
 Acq: 24 Oct 2019 20:36

Instrument :
 MSVOA_D
 ClientSampled :

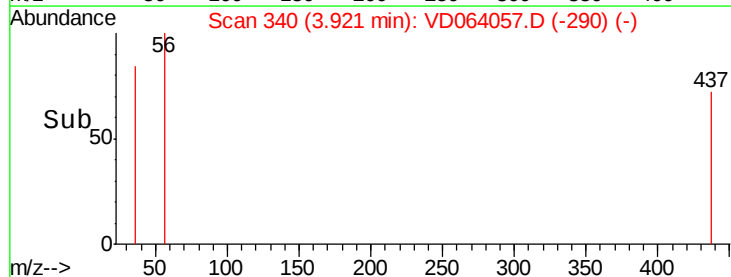
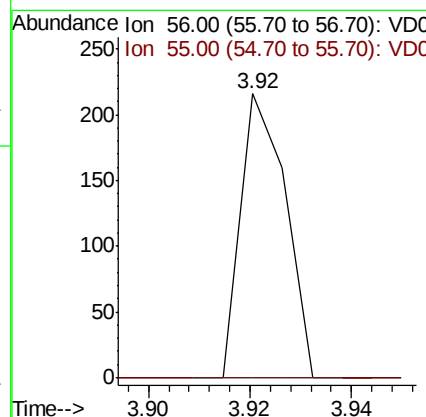
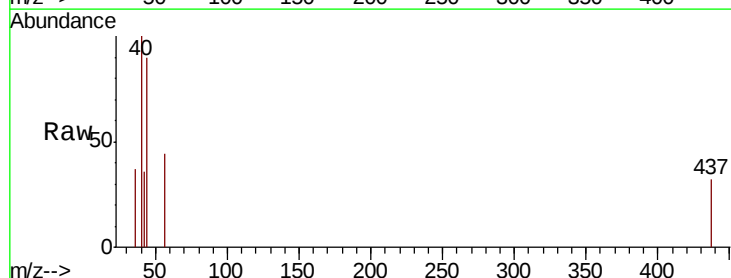
Tot Ion: 59 Resp: 56
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.8 13.2#

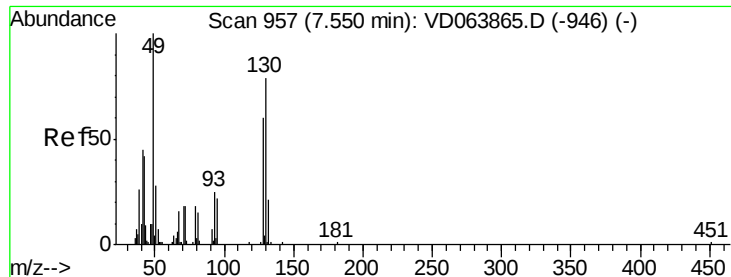


#13

Acrolein
 Concen: 4.619 ug/l
 RT: 3.92 min Scan# 340
 Delta R.T. -0.01 min
 Lab File: VD064057.D
 Acq: 24 Oct 2019 20:36

Tgt Ion: 56 Resp: 133
 Ion Ratio Lower Upper
 56 100
 55 0.0 53.0 79.6#





#28

Bromochloromethane

Concen: 2.117 ug/l

RT: 7.47 min Scan# 944

Delta R.T. -0.08 min

Lab File: VD064057.D

Acq: 24 Oct 2019 20:36

Instrument :
MSVOA_D
ClientSampleId :

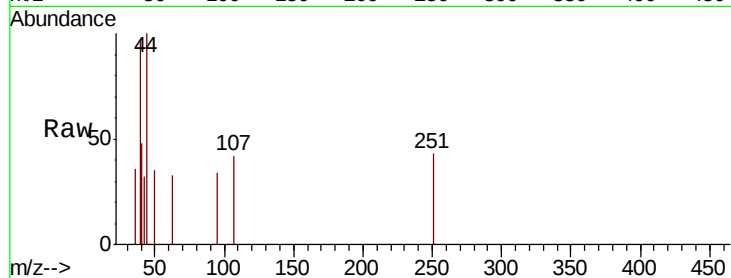
Tot Ion: 49 Resp: 58

Ion Ratio Lower Upper

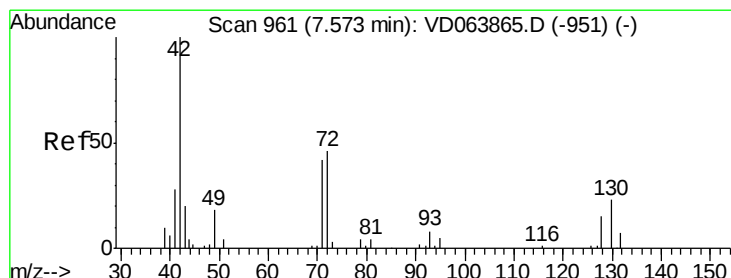
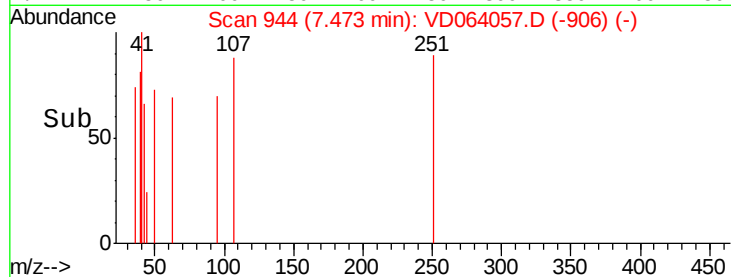
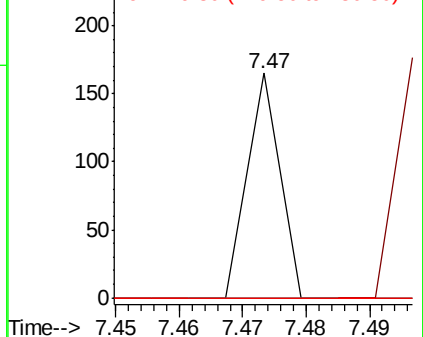
49 100

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): VDC
Ion 129.80 (129.50 to 130.50): VDC



#29

Tetrahydrofuran

Concen: 1.447 ug/l

RT: 7.59 min Scan# 963

Delta R.T. 0.01 min

Lab File: VD064057.D

Acq: 24 Oct 2019 20:36

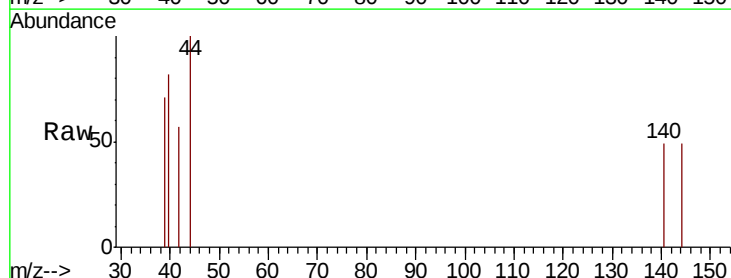
Tgt Ion: 42 Resp: 84

Ion Ratio Lower Upper

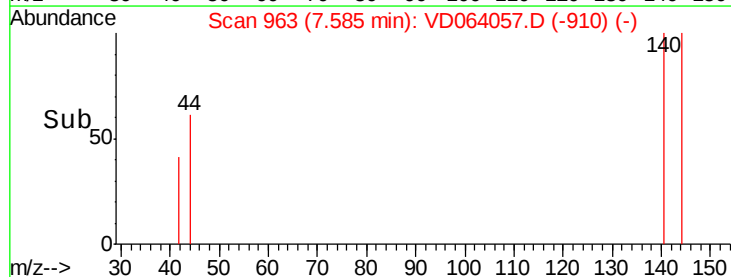
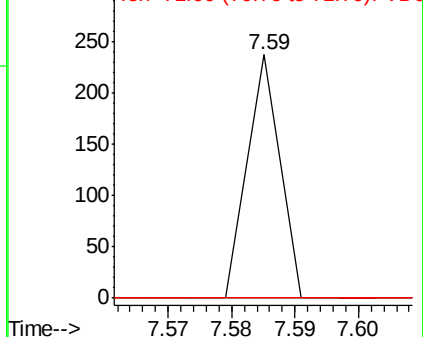
42 100

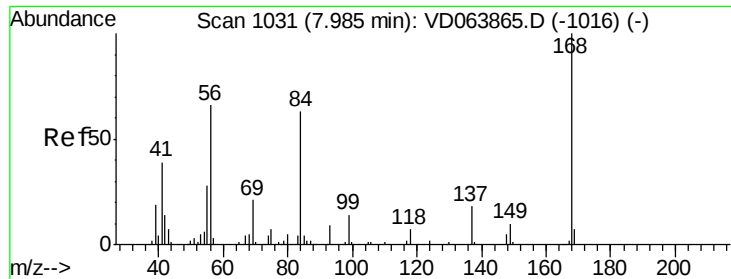
72 0.0 37.6 56.4#

71 0.0 35.0 52.6#



Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC

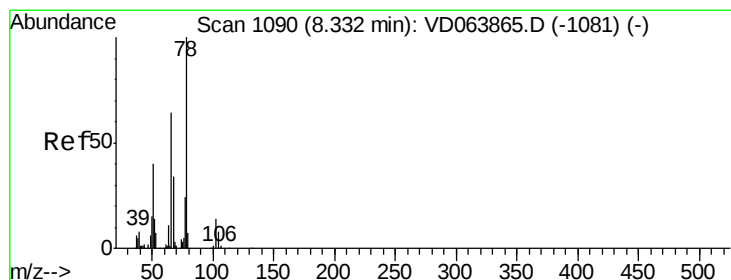
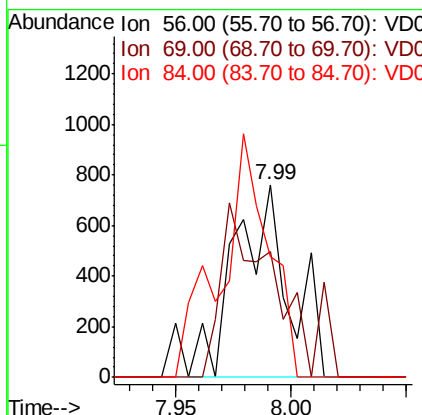
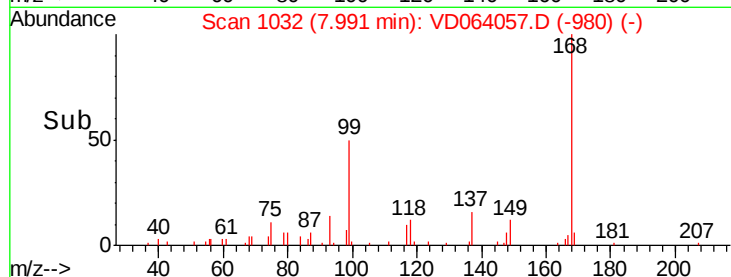
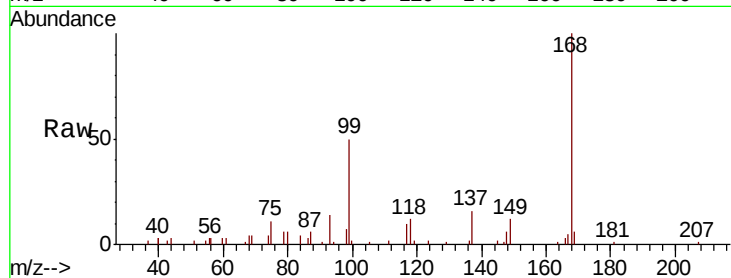




#31
Cyclohexane
Concen: Below Cal
RT: 7.99 min Scan# 1032
Delta R.T. 0.01 min
Lab File: VD064057.D
Acq: 24 Oct 2019 20:36

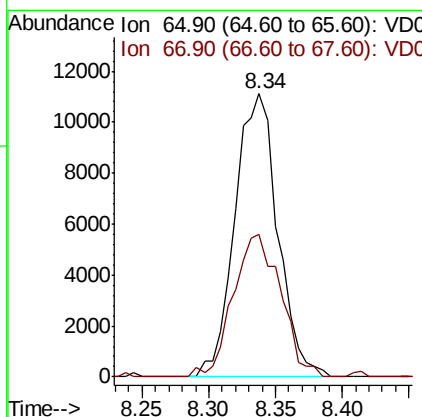
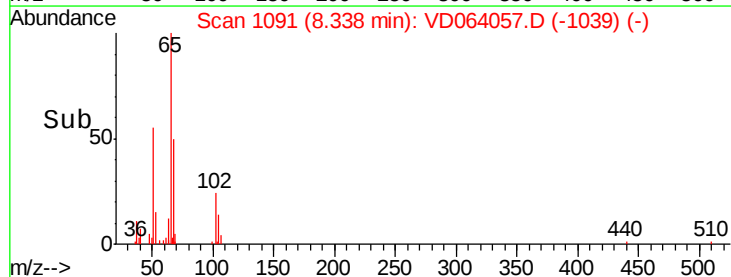
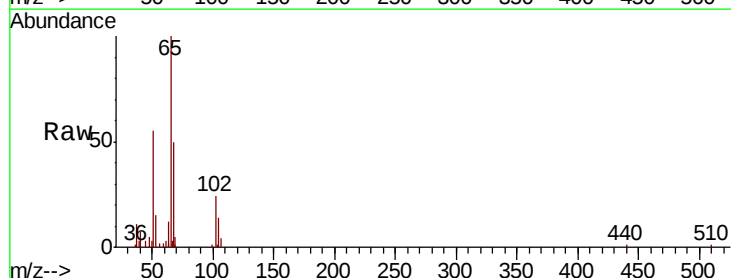
Instrument :
MSVOA_D
ClientSampleId :

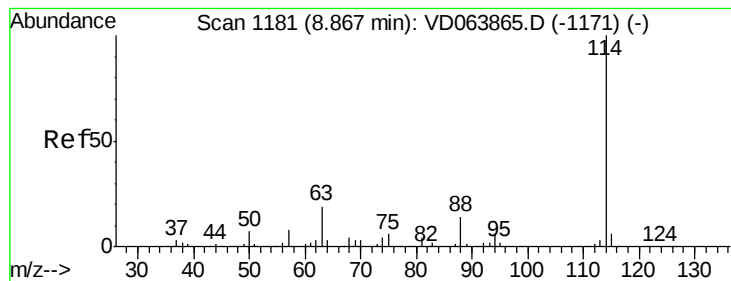
Tot Ion: 56 Resp: 1233
Ion Ratio Lower Upper
56 100
69 65.6 25.0 37.4#
84 62.5 76.3 114.5#



#33
1,2-Dichloroethane-d4
Concen: 76.630 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. 0.01 min
Lab File: VD064057.D
Acq: 24 Oct 2019 20:36

Tgt Ion: 65 Resp: 24704
Ion Ratio Lower Upper
65 100
67 56.0 0.0 106.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

Delta R.T. -0.01 min

Lab File: VD064057.D

Acq: 24 Oct 2019 20:36

Instrument :

MSVOA_D

ClientSampleId :

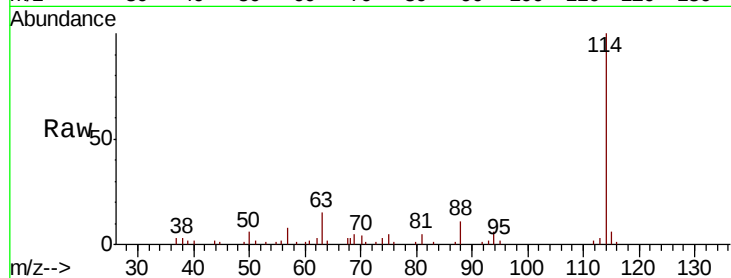
Tot Ion:114 Resp: 60362

Ion Ratio Lower Upper

114 100

63 15.4 0.0 38.4

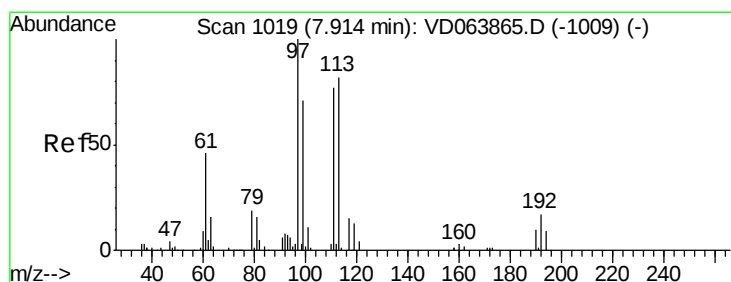
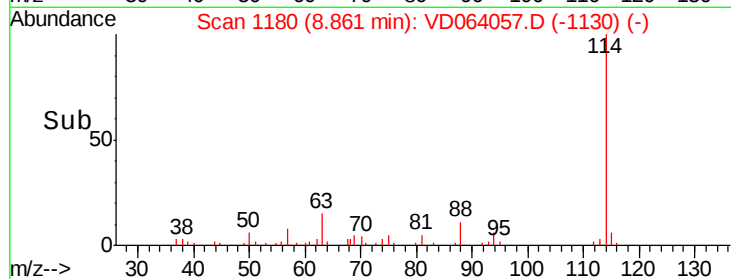
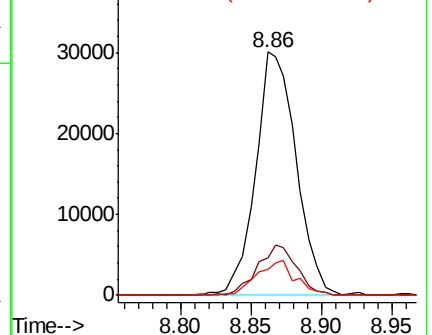
88 10.7 0.0 27.4



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: 55.260 ug/l

RT: 7.93 min Scan# 1021

Delta R.T. 0.01 min

Lab File: VD064057.D

Acq: 24 Oct 2019 20:36

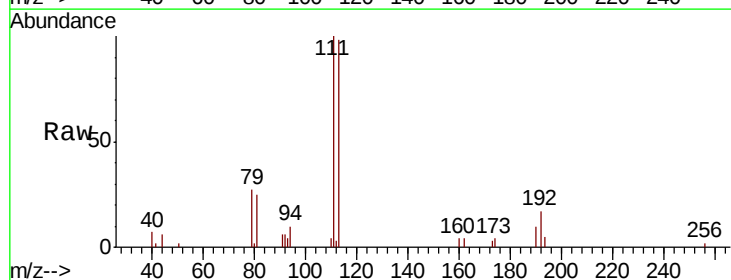
Tgt Ion:113 Resp: 20385

Ion Ratio Lower Upper

113 100

111 106.0 82.6 123.8

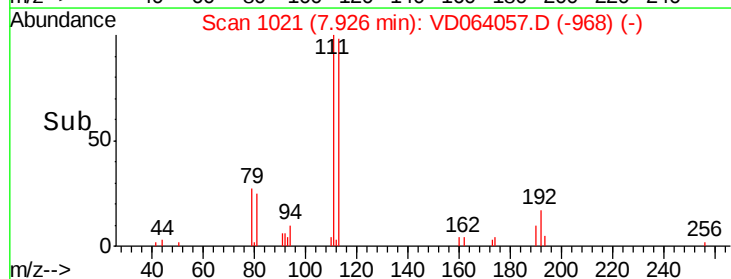
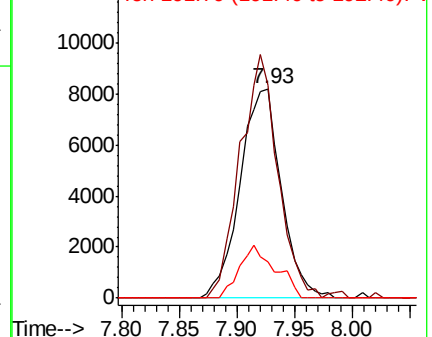
192 22.0 17.1 25.7

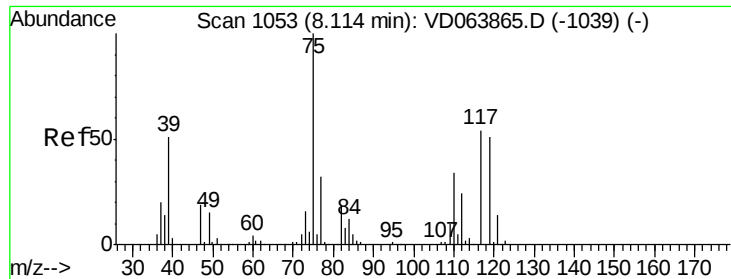


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

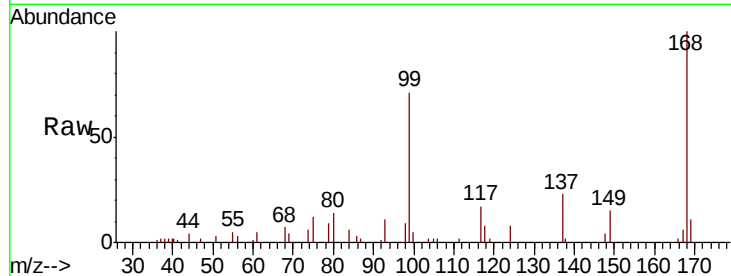




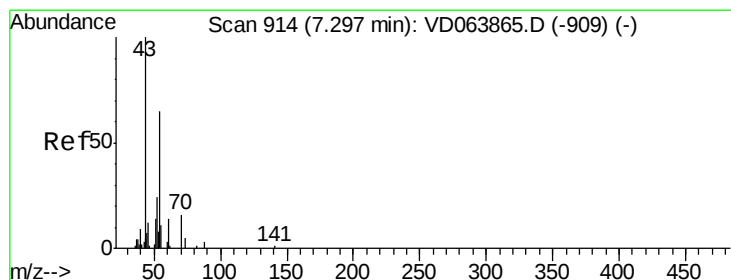
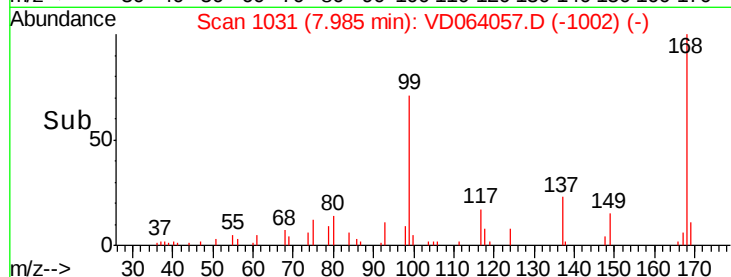
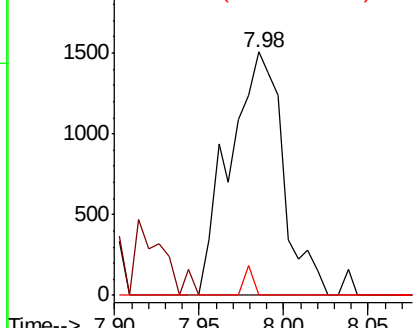
#36
 1,1-Dichloropropene
 Concen: 6.035 ug/l
 RT: 7.98 min Scan# 1031
 Delta R.T. -0.13 min
 Lab File: VD064057.D
 Acq: 24 Oct 2019 20:36

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 75 Resp: 3331
 Ion Ratio Lower Upper
 75 100
 110 0.0 17.4 52.3#
 77 2.0 25.4 38.0#

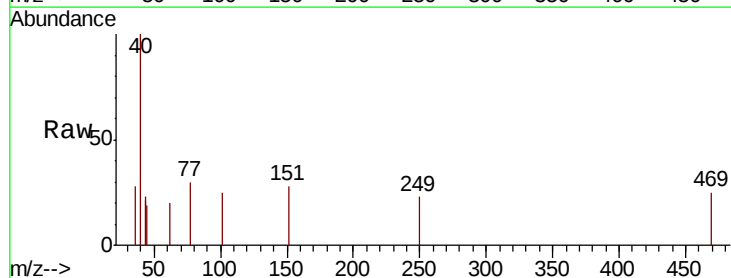


Abundance Ion 74.90 (74.60 to 75.60): VDC
 Ion 109.90 (109.60 to 110.60): VDC
 Ion 76.90 (76.60 to 77.60): VDC

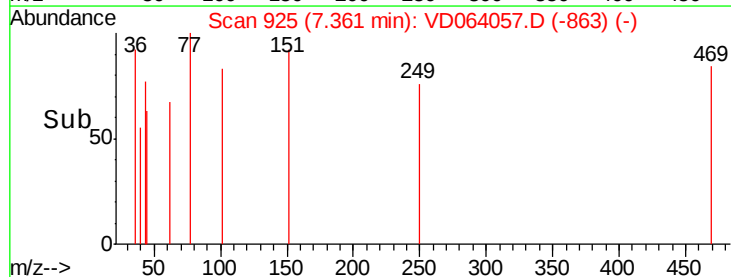
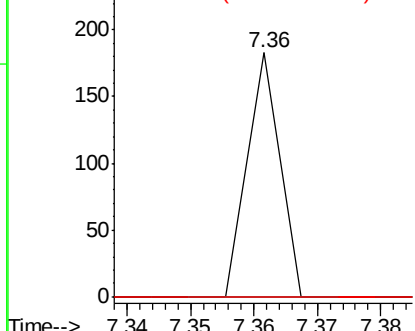


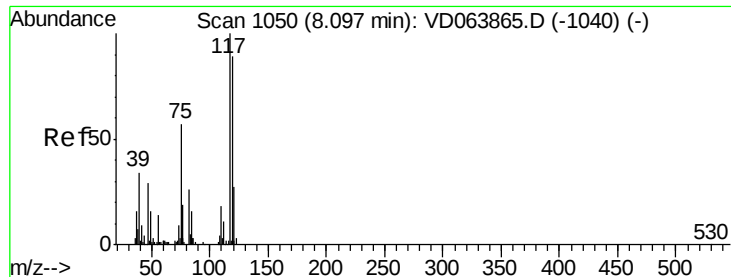
#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 7.36 min Scan# 925
 Delta R.T. 0.07 min
 Lab File: VD064057.D
 Acq: 24 Oct 2019 20:36

Tgt Ion: 43 Resp: 65
 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

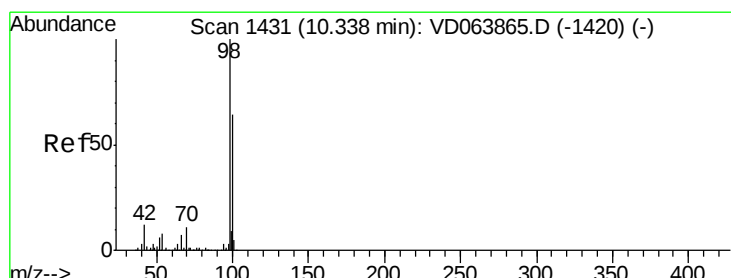
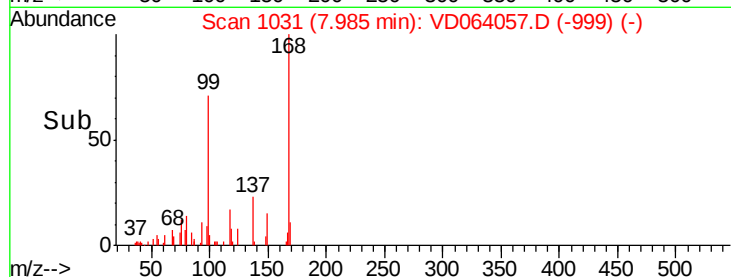
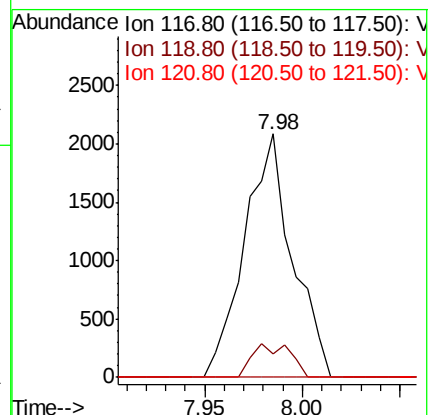
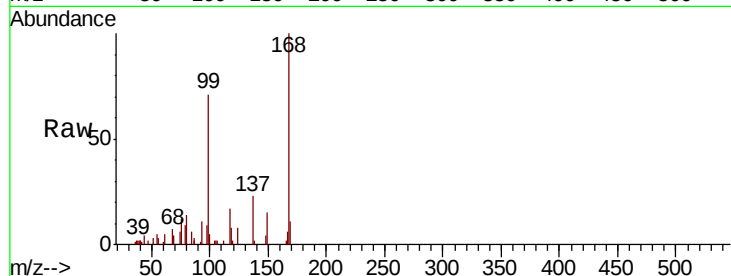




#38
Carbon Tetrachloride
Concen: 6.342 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.11 min
Lab File: VD064057.D
Acq: 24 Oct 2019 20:36

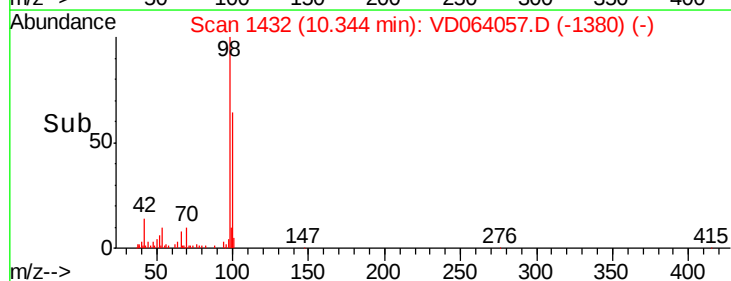
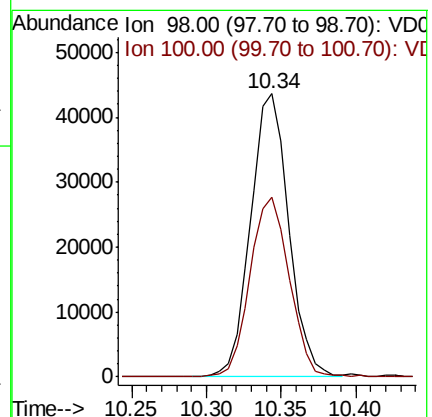
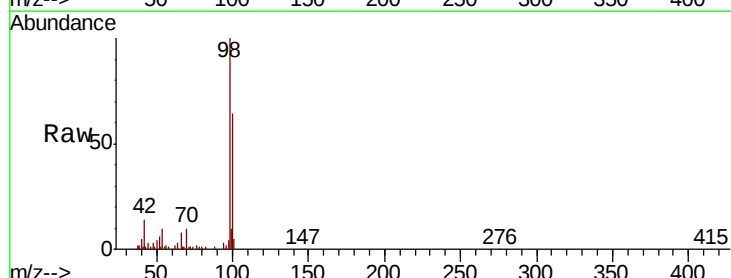
Instrument :
MSVOA_D
ClientSampled :

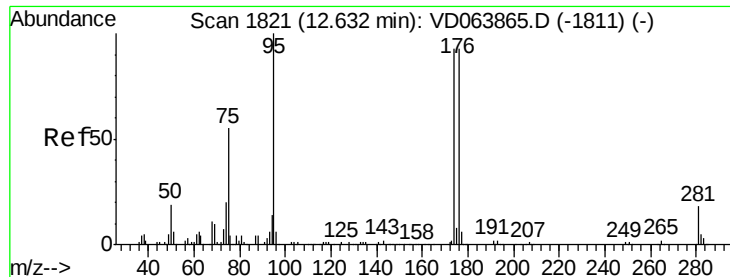
Tot Ion:117 Resp: 3537
Ion Ratio Lower Upper
117 100
119 9.6 70.8 106.2#
121 0.0 21.4 32.0#



#50
Toluene-d8
Concen: 51.364 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.01 min
Lab File: VD064057.D
Acq: 24 Oct 2019 20:36

Tgt Ion: 98 Resp: 76906
Ion Ratio Lower Upper
98 100
100 65.5 52.1 78.1





#62

4-Bromofluorobenzene

Concen: 45.850 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.01 min

Lab File: VD064057.D

Acq: 24 Oct 2019 20:36

Instrument :

MSVOA_D

ClientSampleId :

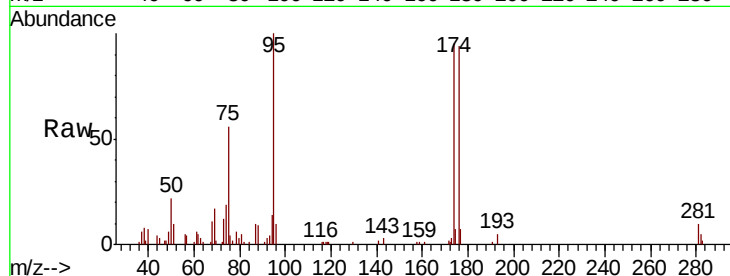
Tot Ion: 95 Resp: 23856

Ion Ratio Lower Upper

95 100

174 90.6 0.0 186.4

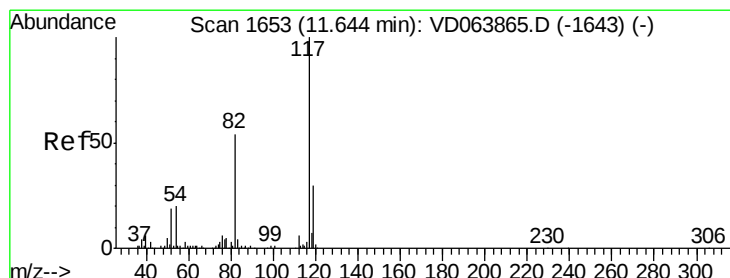
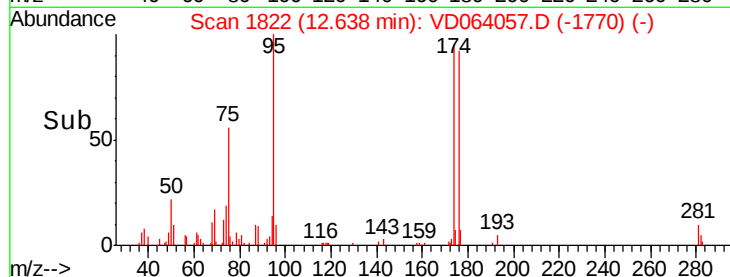
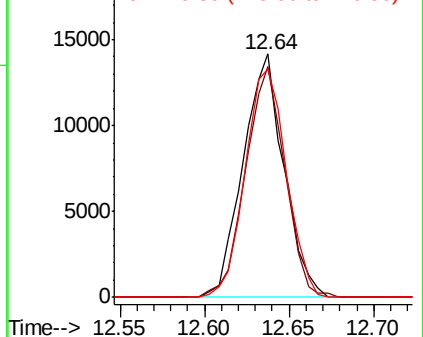
176 94.3 0.0 184.2



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: VD064057.D

Acq: 24 Oct 2019 20:36

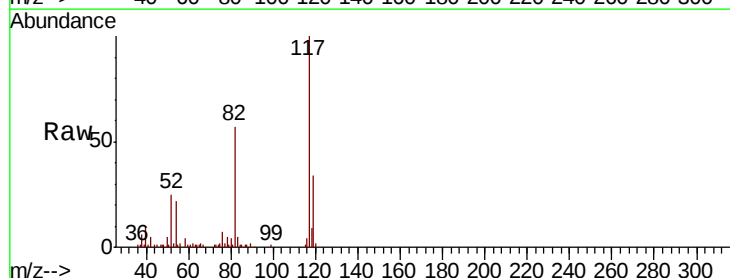
Tgt Ion: 117 Resp: 62045

Ion Ratio Lower Upper

117 100

82 57.2 42.8 64.2

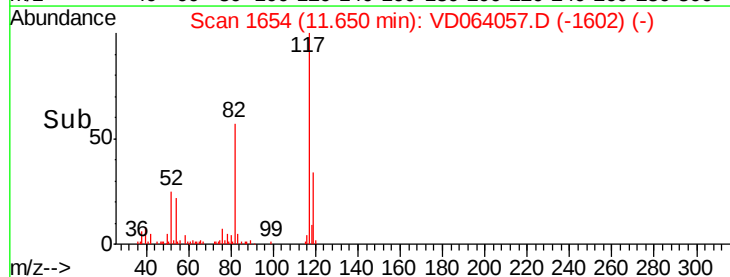
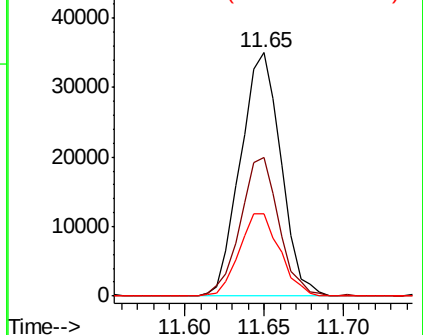
119 33.6 24.4 36.6

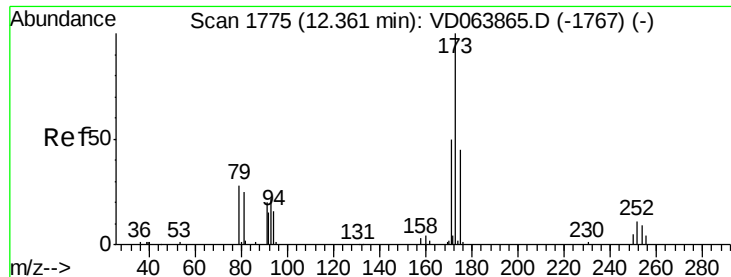


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V





#71

Bromoform

Concen: 1.518 ug/l

RT: 12.63 min Scan# 1820

Delta R.T. 0.26 min

Lab File: VD064057.D

Acq: 24 Oct 2019 20:36

Instrument :

MSVOA_D

ClientSampleID :

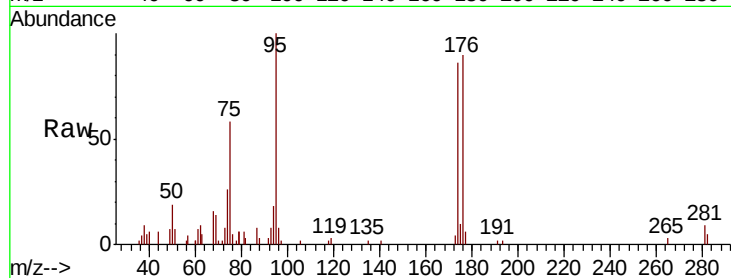
Tot Ion:173 Resp: 374

Ion Ratio Lower Upper

173 100

175 423.5 24.6 74.0#

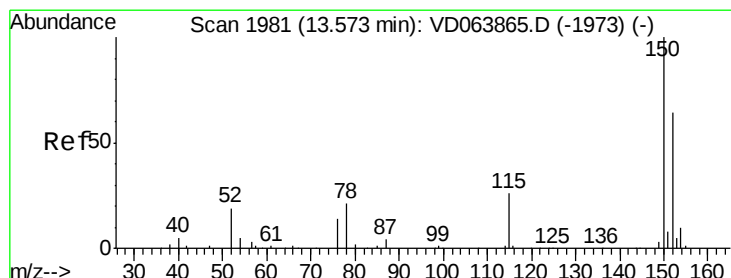
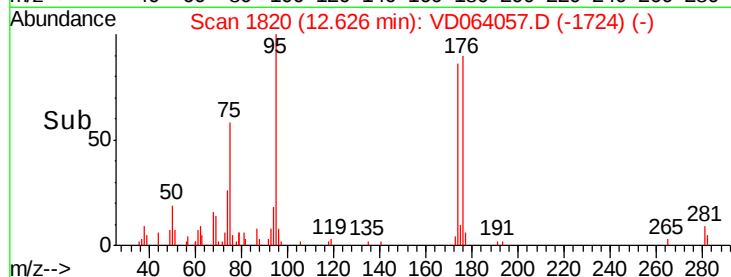
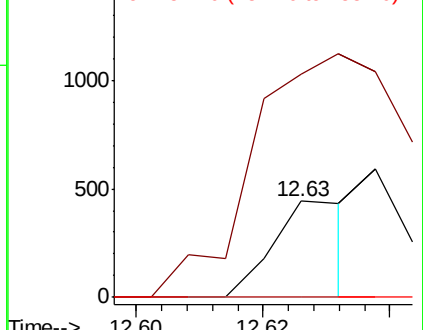
254 0.0 0.0 0.0



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: VD064057.D

Acq: 24 Oct 2019 20:36

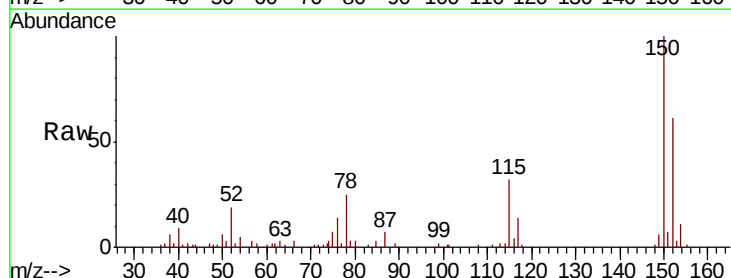
Tgt Ion:152 Resp: 26955

Ion Ratio Lower Upper

152 100

115 58.2 25.9 77.7

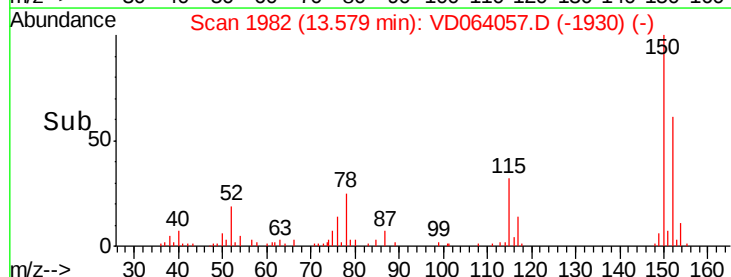
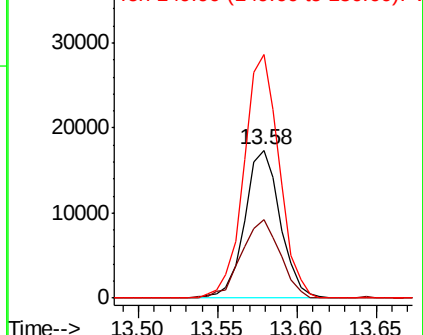
150 164.4 0.0 344.2

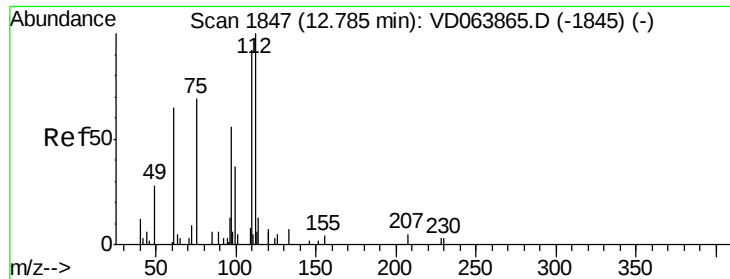


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 81.125 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD064057.D

Acq: 24 Oct 2019 20:36

Instrument :

MSVOA_D

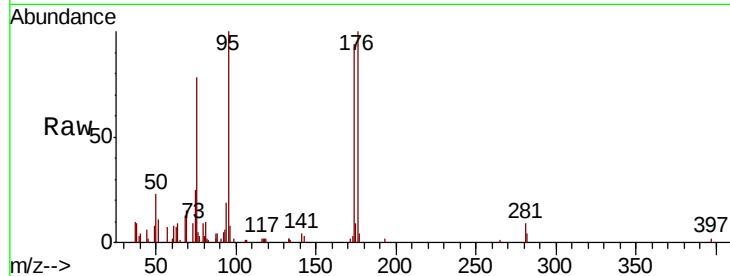
ClientSampled :

Tot Ion: 75 Resp: 14646

Ion Ratio Lower Upper

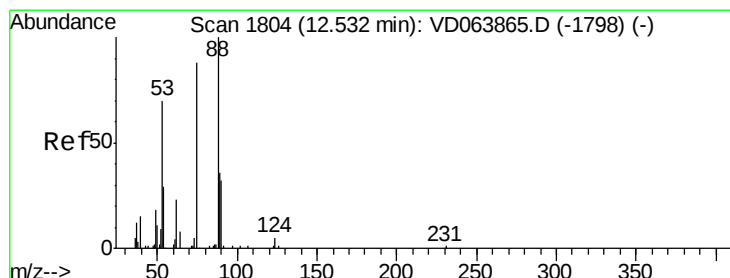
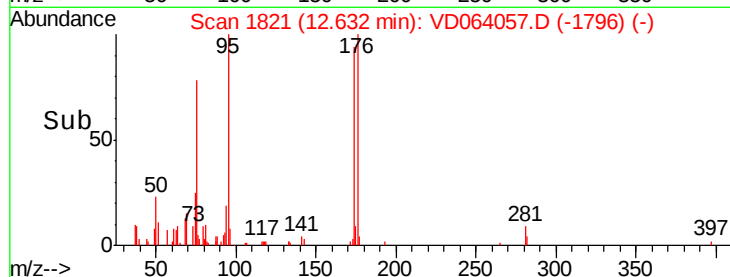
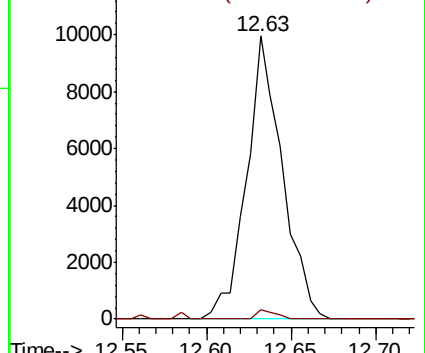
75 100

77 1.8 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: 143.558 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD064057.D

Acq: 24 Oct 2019 20:36

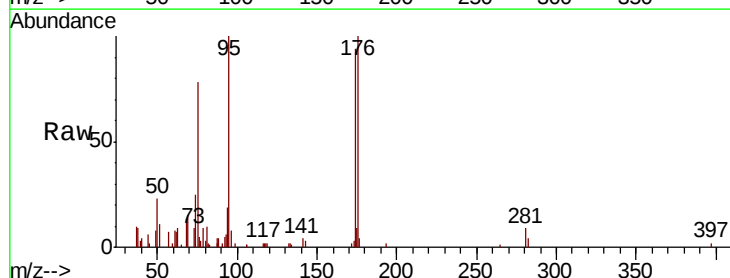
Tgt Ion: 75 Resp: 14646

Ion Ratio Lower Upper

75 100

53 0.0 75.0 112.6#

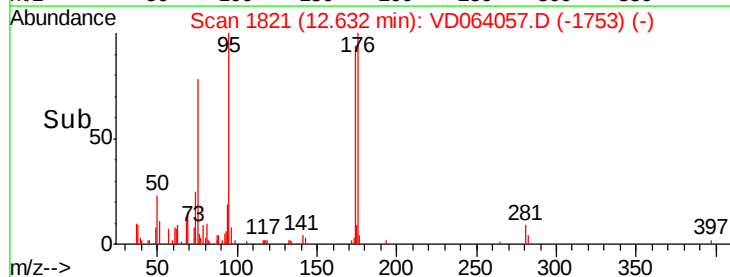
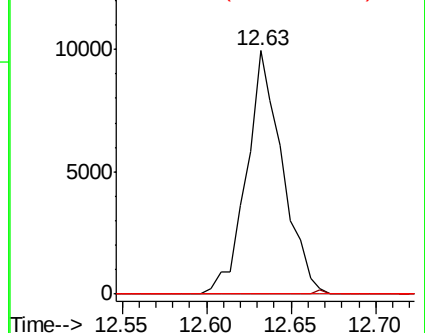
89 0.0 38.2 57.4#

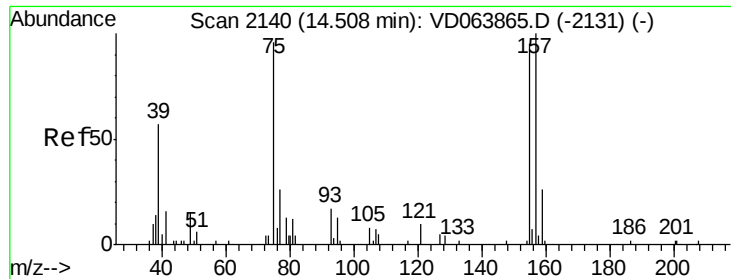


Abundance Ion 74.90 (74.60 to 75.60): VDC

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: 14.63 min Scan# 2160

Delta R.T. 0.12 min

Lab File: VD064057.D

Acq: 24 Oct 2019 20:36

Instrument :

MSVOA_D

ClientSampleId :

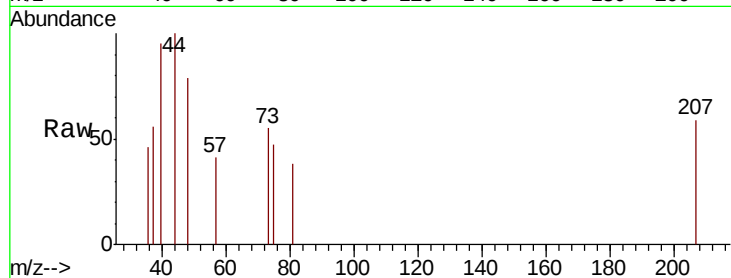
Tot Ion: 75 Resp: 70

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

