

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102319\
 Data File : VD064033.D
 Acq On : 23 Oct 2019 21:01
 Operator : VA/SY
 Sample : K5501-02
 Misc : 4.85G/5.00ml/MSVOA D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 24 06:00:44 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	127269	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	258121	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	273013	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	125309	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	81583	65.84	ug/l	0.00
Spiked Amount			Recovery	=	131.68%	
35) Dibromofluoromethane	7.92	113	77624	49.21	ug/l	0.00
Spiked Amount			Recovery	=	98.42%	
50) Toluene-d8	10.34	98	366554	57.25	ug/l	0.00
Spiked Amount			Recovery	=	114.50%	
62) 4-Bromofluorobenzene	12.64	95	107853	48.48	ug/l	0.00
Spiked Amount			Recovery	=	96.96%	

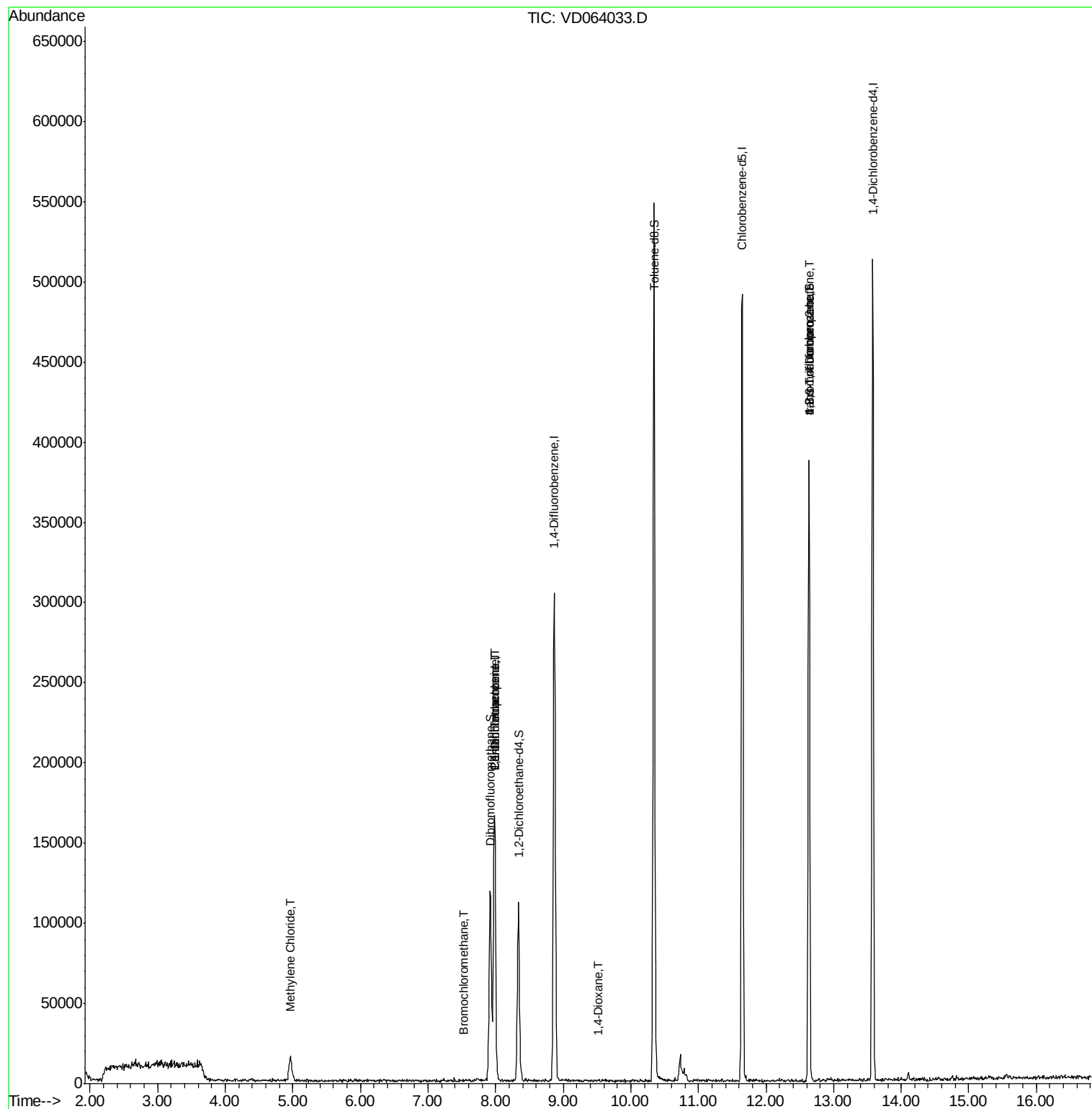
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.22	50	208	Below Cal	#	1
11) Tert butyl alcohol	5.26	59	64	Below Cal	#	71
20) Methylene Chloride	4.96	84	11126	5.068	ug/l #	73
28) Bromochloromethane	7.51	49	131	2.013	ug/l #	10
31) Cyclohexane	7.99	56	3043	Below Cal	#	39
36) 1,1-Dichloropropene	7.99	75	10376	4.396	ug/l #	52
37) Ethyl Acetate	7.27	43	86	Below Cal	#	68
38) Carbon Tetrachloride	7.99	117	12749	5.346	ug/l #	23
49) 1,4-Dioxane	9.51	88	67	5.206	ug/l #	10
76) 1,2,3-Trichloropropane	12.64	75	58426	69.614	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	58426	123.189	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.49	75	53	Below Cal	#	1

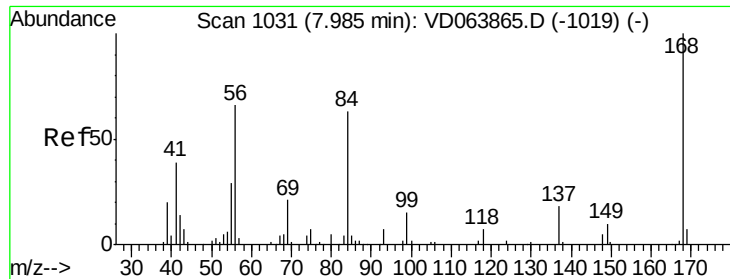
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD102319\
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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: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064033.D

Acq: 23 Oct 2019 21:01

Instrument :

MSVOA_D

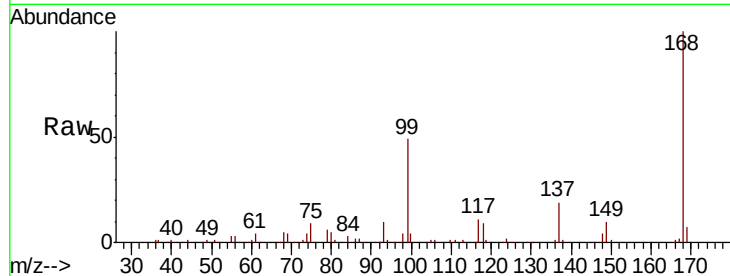
ClientSampleId :

Tot Ion:168 Resp: 127269

Ion Ratio Lower Upper

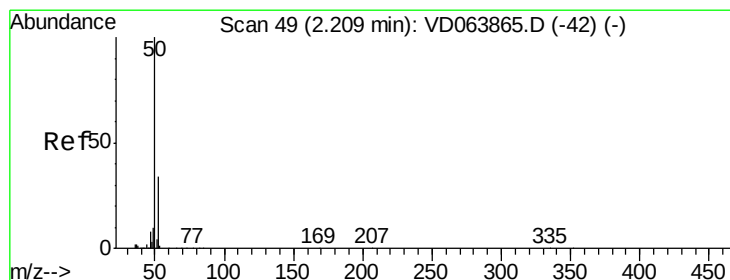
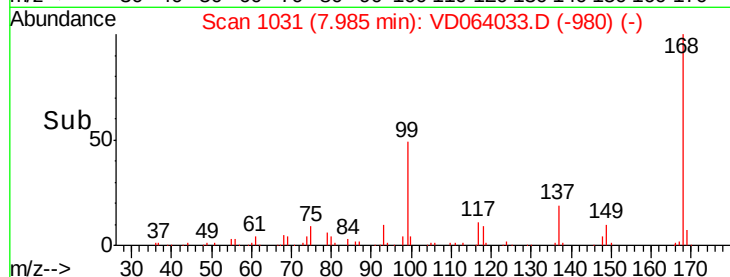
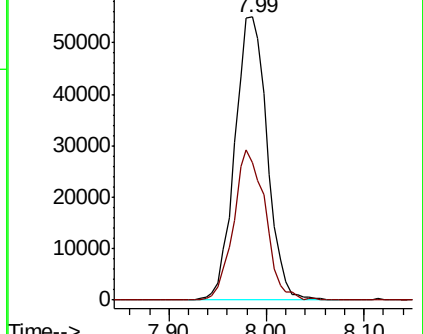
168 100

99 48.7 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: 2.22 min Scan# 51

Delta R.T. 0.01 min

Lab File: VD064033.D

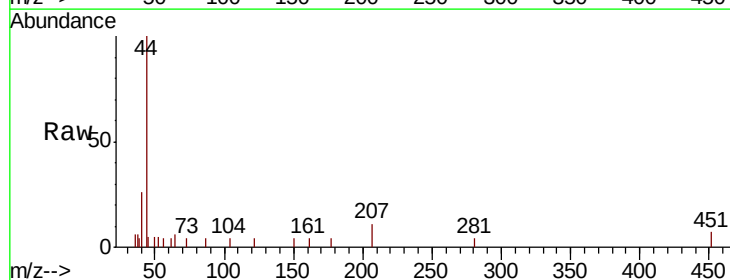
Acq: 23 Oct 2019 21:01

Tgt Ion: 50 Resp: 208

Ion Ratio Lower Upper

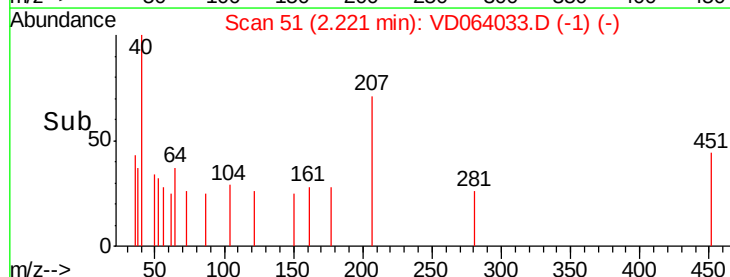
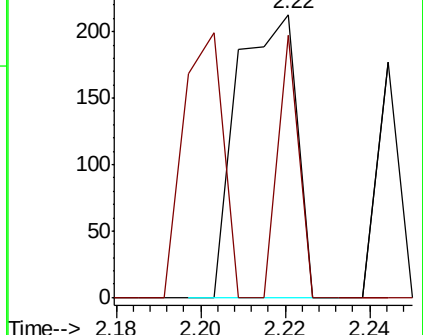
50 100

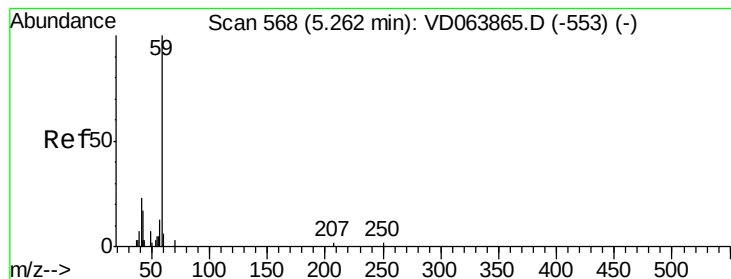
52 92.5 27.5 41.3#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



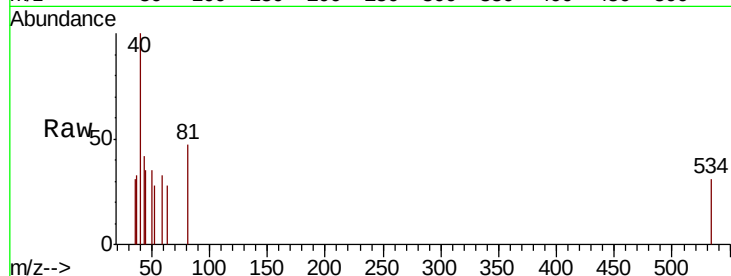


#11

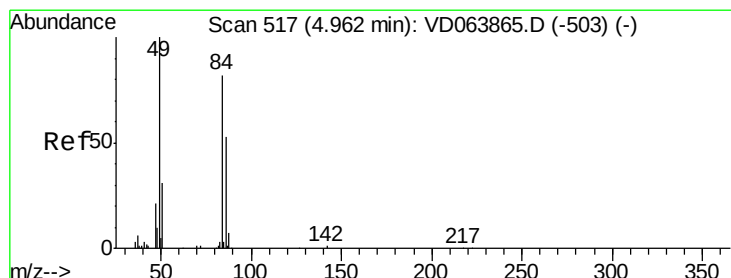
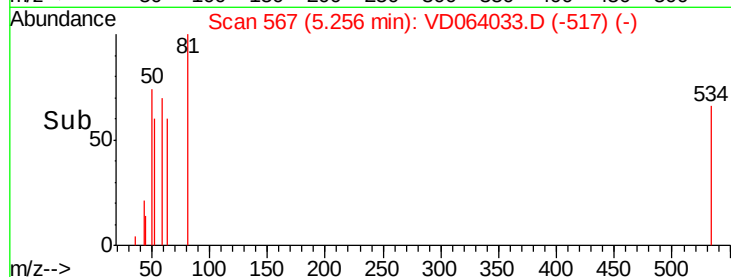
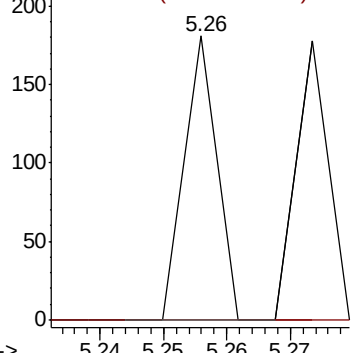
Tert butyl alcohol
 Concen: Below Cal
 RT: 5.26 min Scan# 567
 Delta R.T. -0.01 min
 Lab File: VD064033.D
 Acq: 23 Oct 2019 21:01

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 59 Resp: 64
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.8 13.2#



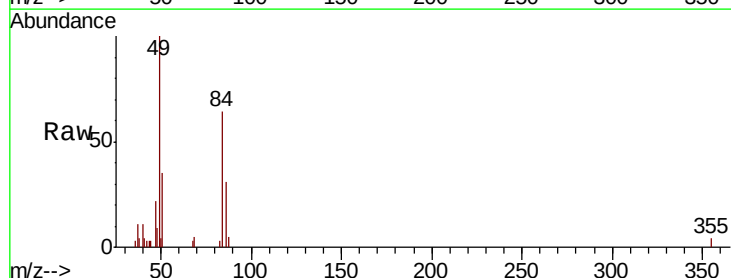
Abundance Ion 59.00 (58.70 to 59.70): VDC
 Ion 57.00 (56.70 to 57.70): VDC



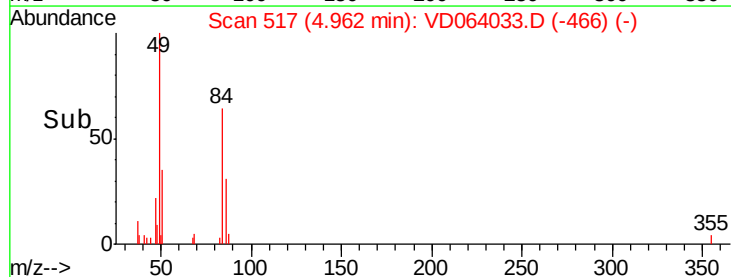
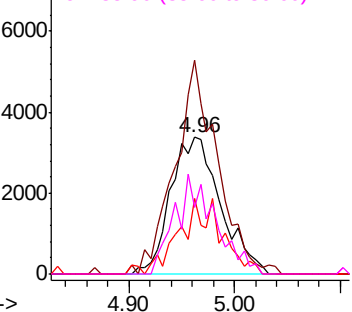
#20

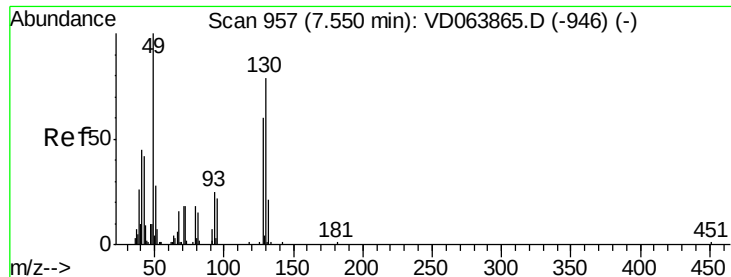
Methylene Chloride
 Concen: 5.068 ug/l
 RT: 4.96 min Scan# 517
 Delta R.T. 0.00 min
 Lab File: VD064033.D
 Acq: 23 Oct 2019 21:01

Tgt Ion: 84 Resp: 11126
 Ion Ratio Lower Upper
 84 100
 49 156.0 97.3 145.9#
 51 54.9 30.1 45.1#
 86 48.7 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: 2.013 ug/l

RT: 7.51 min Scan# 951

Delta R.T. -0.03 min

Lab File: VD064033.D

Acq: 23 Oct 2019 21:01

Instrument :

MSVOA_D

ClientSampled :

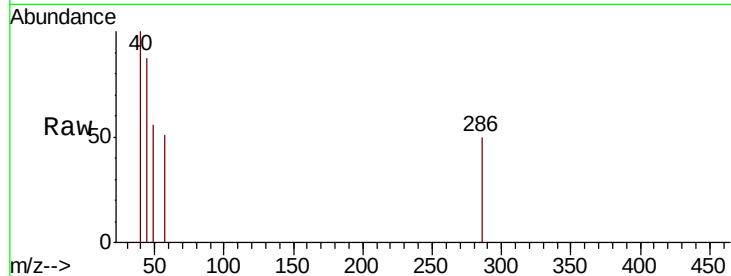
Tot Ion: 49 Resp: 131

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.6

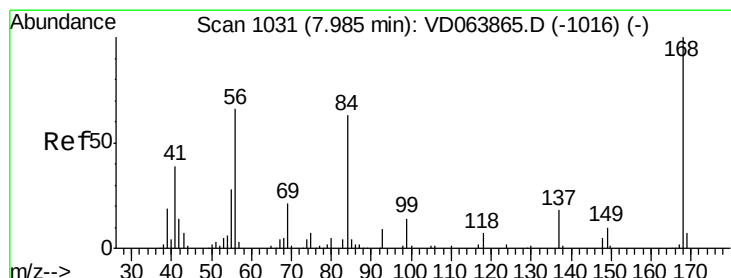
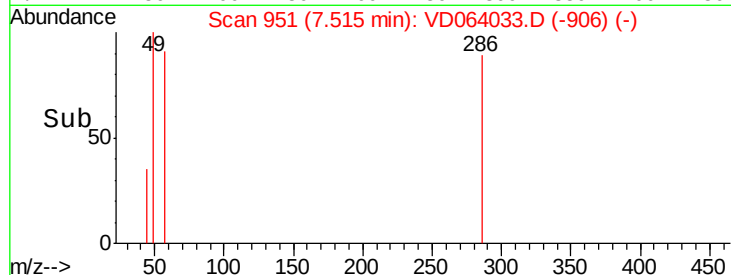
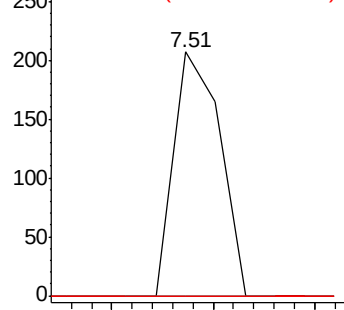
130 0.0 66.8 100.2#



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: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064033.D

Acq: 23 Oct 2019 21:01

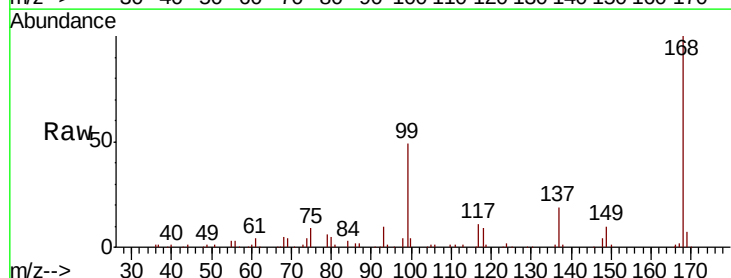
Tgt Ion: 56 Resp: 3043

Ion Ratio Lower Upper

56 100

69 140.2 25.0 37.4#

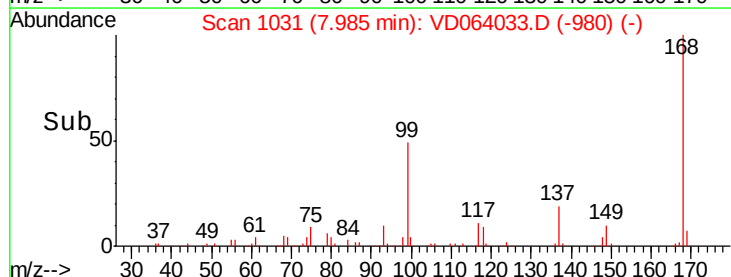
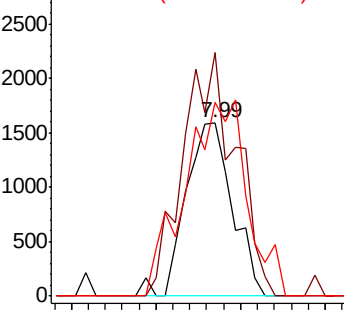
84 111.2 76.3 114.5

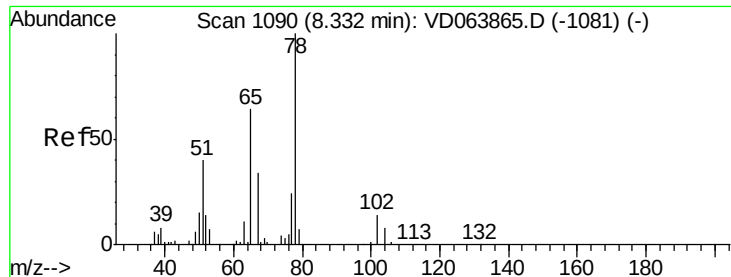


Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC





#33

1,2-Dichloroethane-d4

Concen: 65.843 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VD064033.D

Acq: 23 Oct 2019 21:01

Instrument :

MSVOA_D

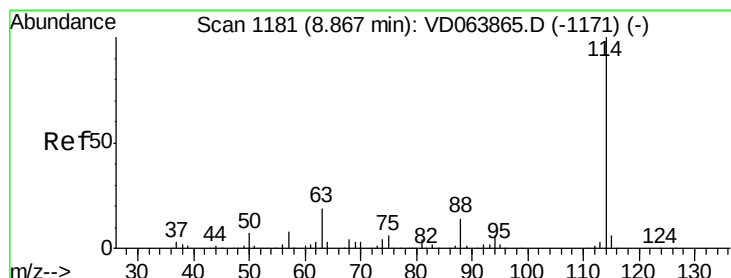
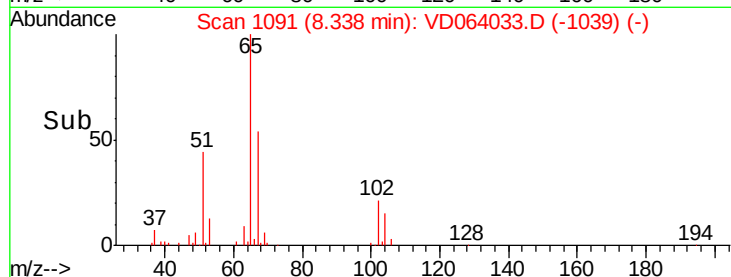
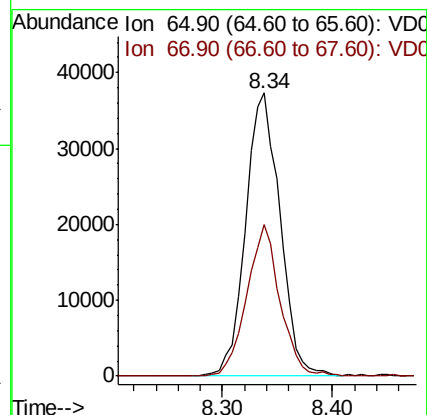
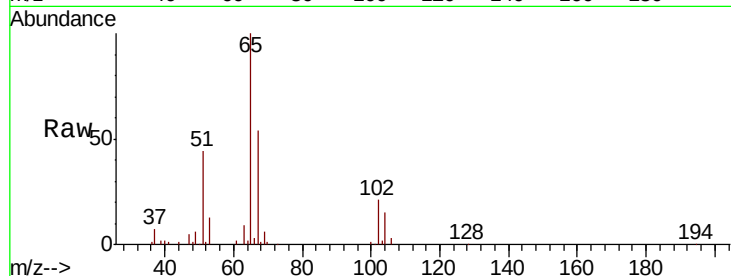
ClientSampleId :

Tot Ion: 65 Resp: 81583

Ion Ratio Lower Upper

65 100

67 51.7 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: VD064033.D

Acq: 23 Oct 2019 21:01

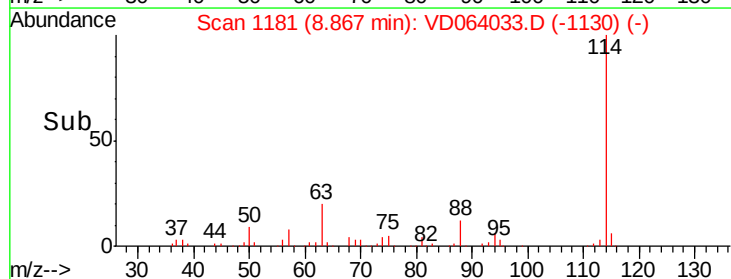
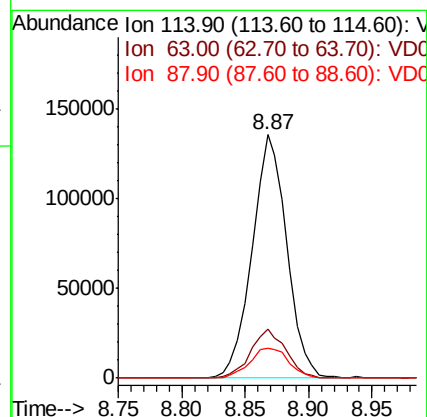
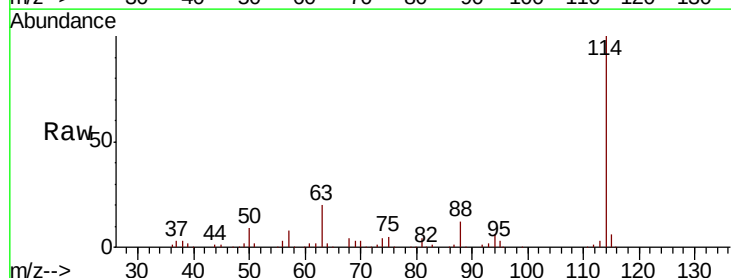
Tgt Ion: 114 Resp: 258121

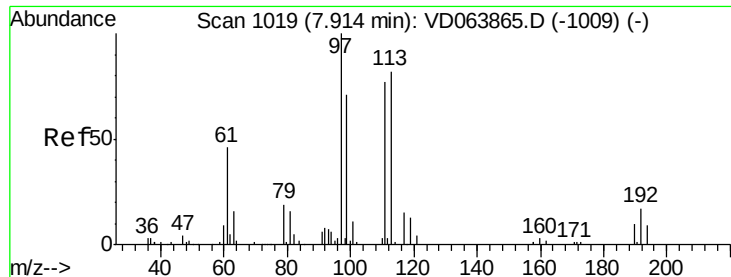
Ion Ratio Lower Upper

114 100

63 20.0 0.0 38.4

88 12.4 0.0 27.4

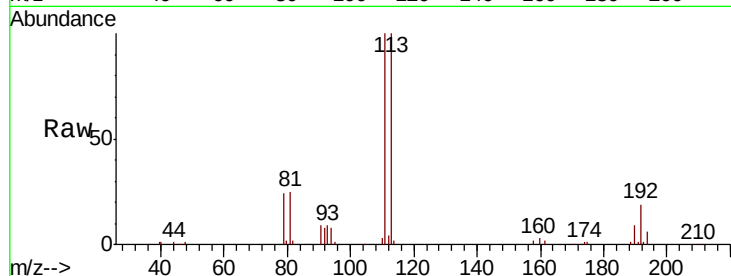




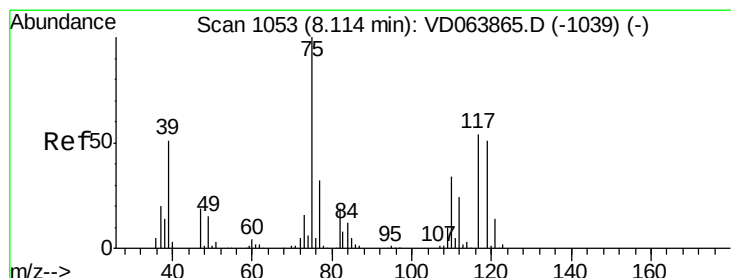
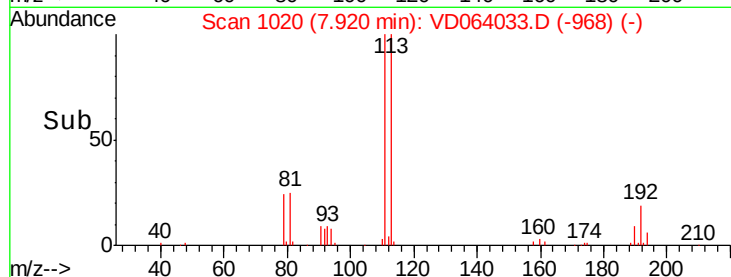
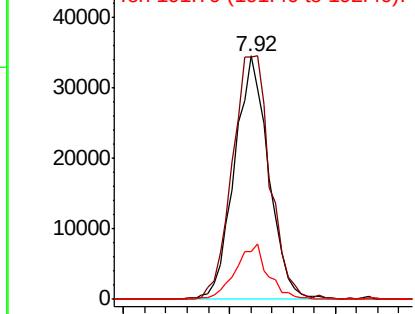
#35
 Dibromofluoromethane
 Concen: 49.208 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.01 min
 Lab File: VD064033.D
 Acq: 23 Oct 2019 21:01

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:113 Resp: 77624
 Ion Ratio Lower Upper
 113 100
 111 110.6 82.6 123.8
 192 21.4 17.1 25.7

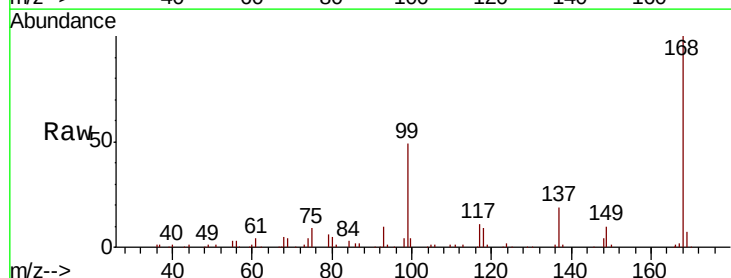


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

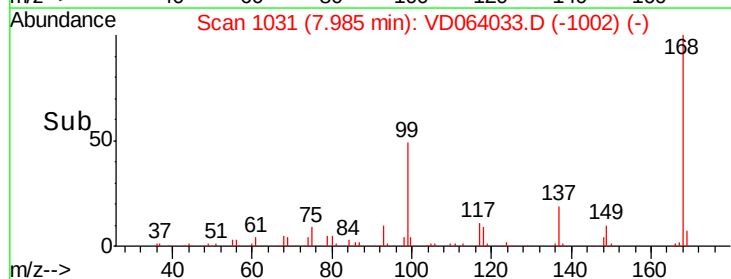
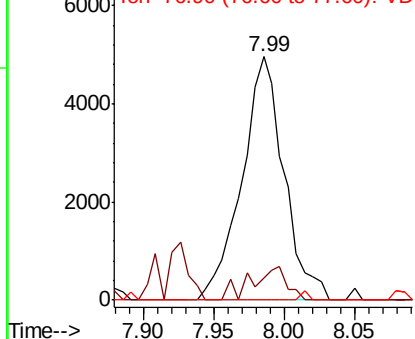


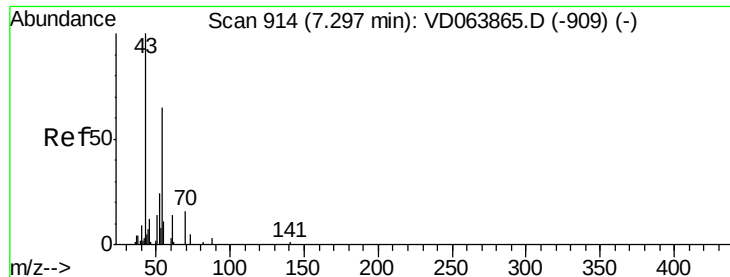
#36
 1,1-Dichloropropene
 Concen: 4.396 ug/l
 RT: 7.99 min Scan# 1031
 Delta R.T. -0.13 min
 Lab File: VD064033.D
 Acq: 23 Oct 2019 21:01

Tgt Ion: 75 Resp: 10376
 Ion Ratio Lower Upper
 75 100
 110 11.7 17.4 52.3#
 77 0.0 25.4 38.0#



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

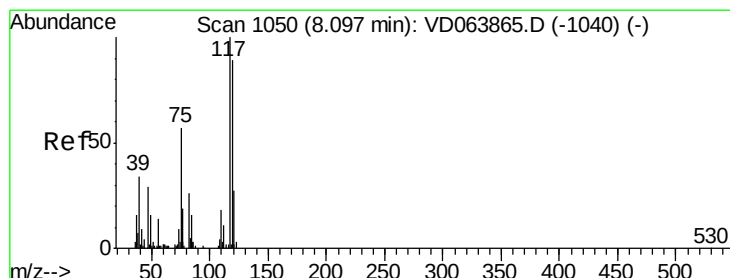
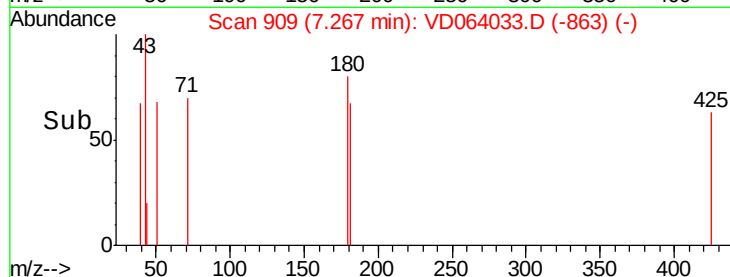
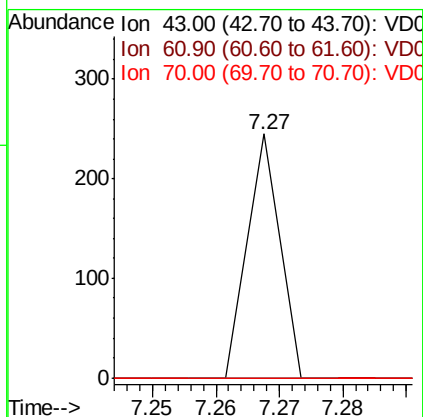
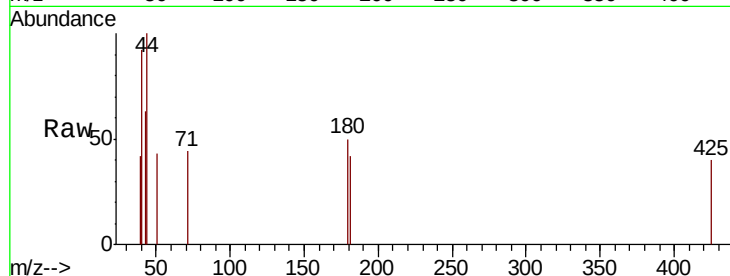




#37
Ethyl Acetate
Concen: Below Cal
RT: 7.27 min Scan# 909
Delta R.T. -0.03 min
Lab File: VD064033.D
Acq: 23 Oct 2019 21:01

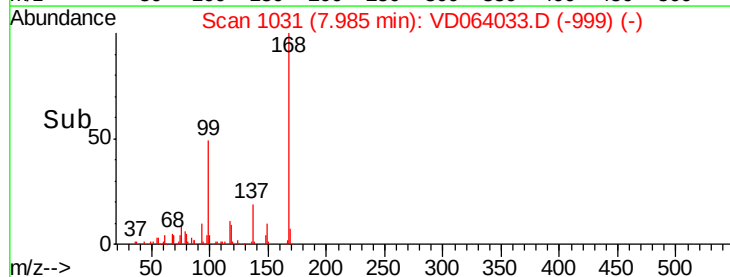
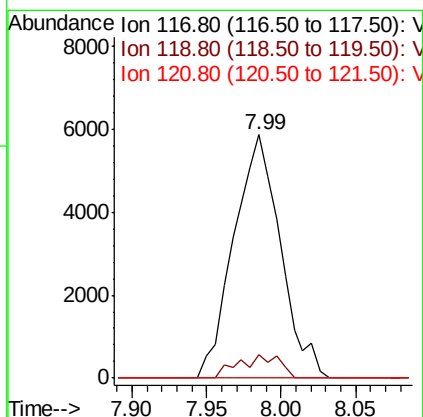
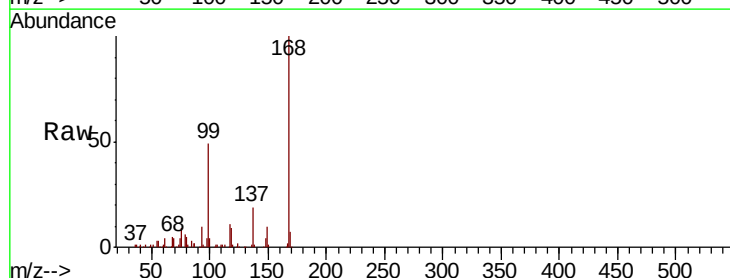
Instrument :
MSVOA_D
ClientSampleId :

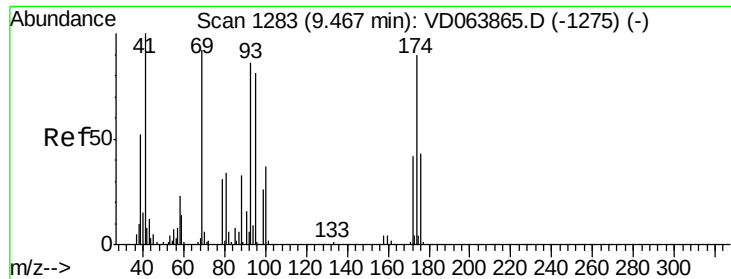
Tot Ion: 43 Resp: 86
Ion Ratio Lower Upper
43 100
61 0.0 11.5 17.3#
70 0.0 8.2 12.4#



#38
Carbon Tetrachloride
Concen: 5.346 ug/l
RT: 7.99 min Scan# 1031
Delta R.T. -0.11 min
Lab File: VD064033.D
Acq: 23 Oct 2019 21:01

Tgt Ion: 117 Resp: 12749
Ion Ratio Lower Upper
117 100
119 9.5 70.8 106.2#
121 0.0 21.4 32.0#

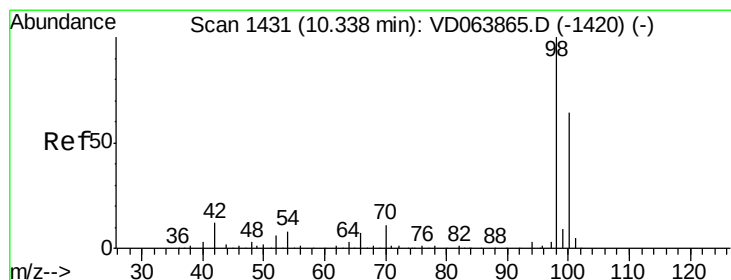
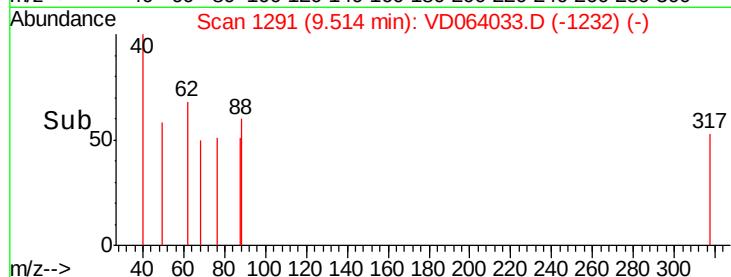
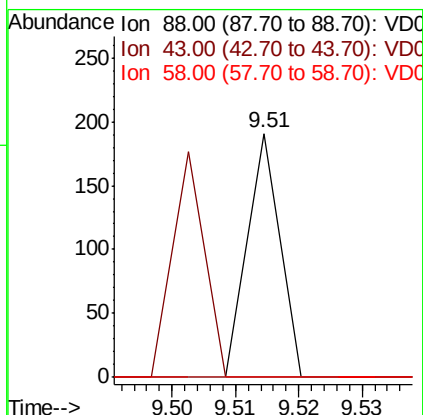
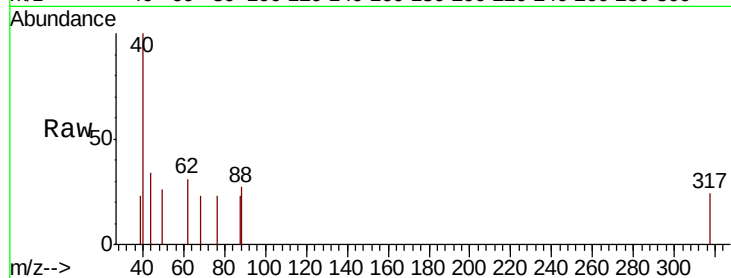




#49
 1,4-Dioxane
 Concen: 5.206 ug/l
 RT: 9.51 min Scan# 1291
 Delta R.T. 0.05 min
 Lab File: VD064033.D
 Acq: 23 Oct 2019 21:01

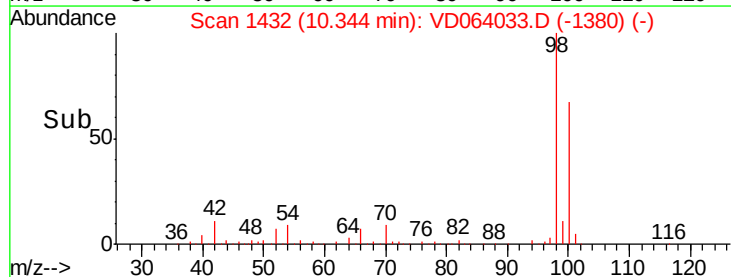
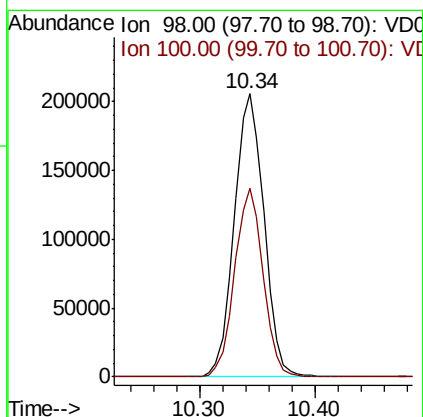
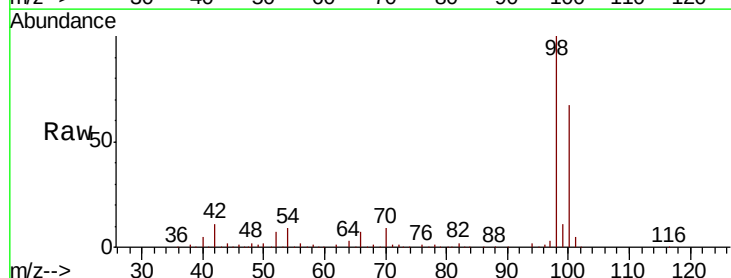
Instrument :
 MSVOA_D
 ClientSampled :

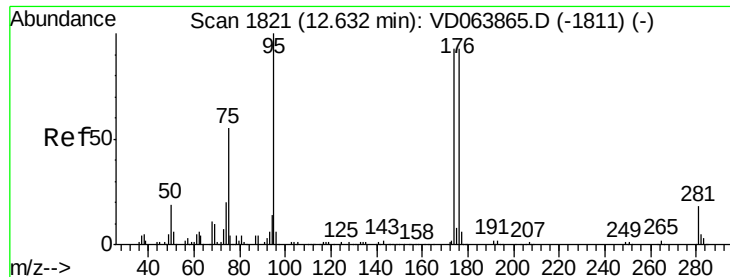
Tot Ion: 88 Resp: 67
 Ion Ratio Lower Upper
 88 100
 43 92.5 27.6 41.4#
 58 0.0 54.1 81.1#



#50
 Toluene-d8
 Concen: 57.250 ug/l
 RT: 10.34 min Scan# 1432
 Delta R.T. 0.01 min
 Lab File: VD064033.D
 Acq: 23 Oct 2019 21:01

Tgt Ion: 98 Resp: 366554
 Ion Ratio Lower Upper
 98 100
 100 63.9 52.1 78.1





#62

4-Bromofluorobenzene

Concen: 48.475 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.01 min

Lab File: VD064033.D

Acq: 23 Oct 2019 21:01

Instrument :

MSVOA_D

ClientSampleId :

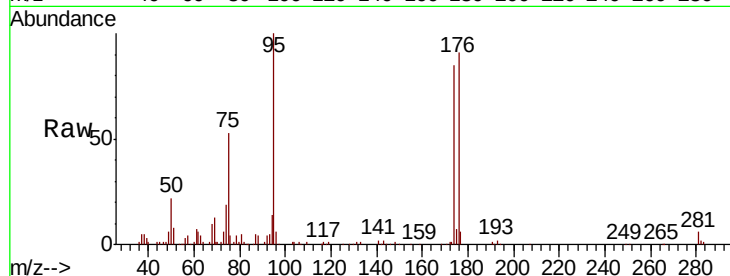
Tot Ion: 95 Resp: 107853

Ion Ratio Lower Upper

95 100

174 92.2 0.0 186.4

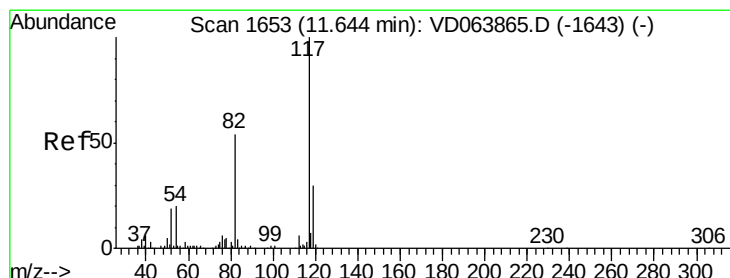
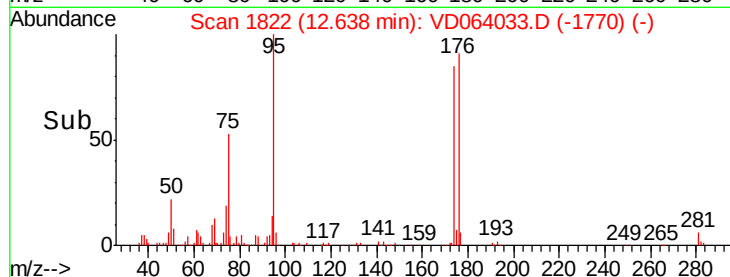
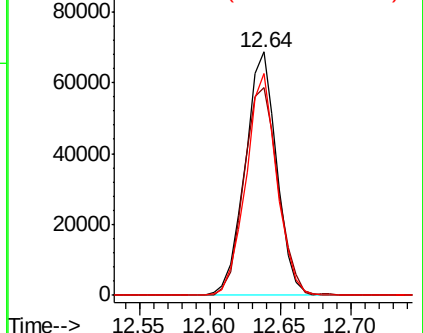
176 89.5 0.0 184.2



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: VD064033.D

Acq: 23 Oct 2019 21:01

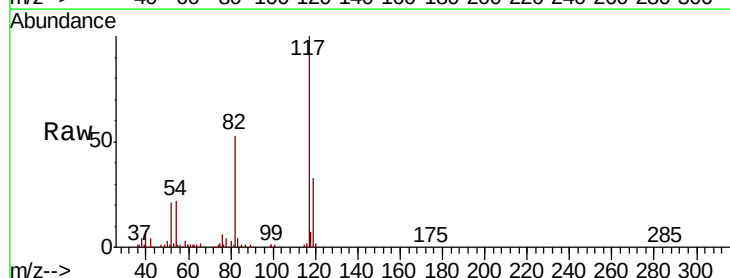
Tgt Ion: 117 Resp: 273013

Ion Ratio Lower Upper

117 100

82 53.1 42.8 64.2

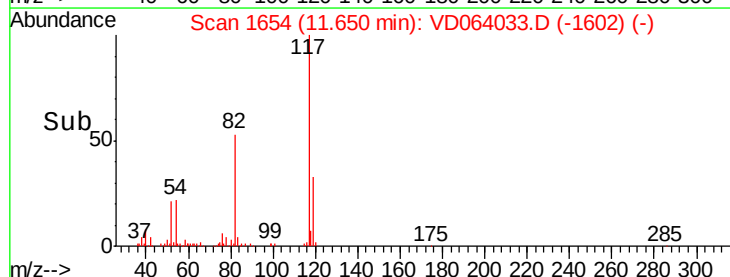
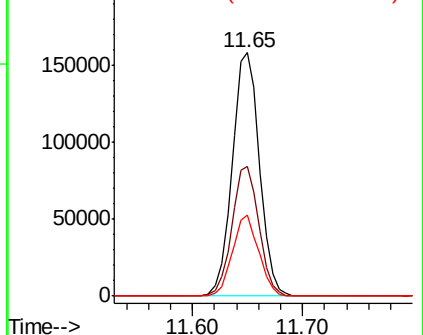
119 33.3 24.4 36.6

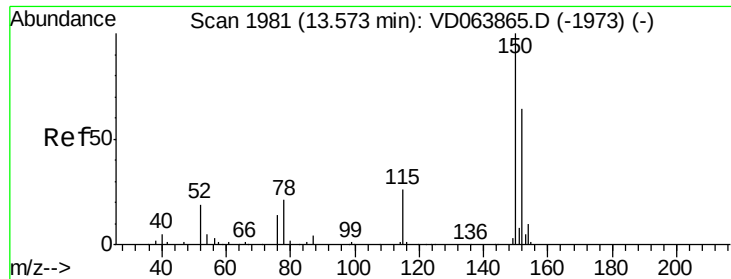


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.01 min

Lab File: VD064033.D

Acq: 23 Oct 2019 21:01

Instrument :

MSVOA_D

ClientSampleId :

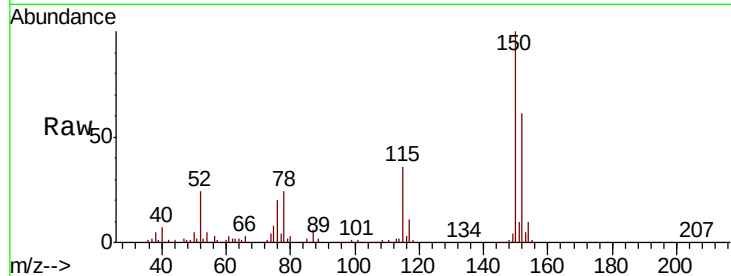
Tot Ion:152 Resp: 125309

Ion Ratio Lower Upper

152 100

115 56.8 25.9 77.7

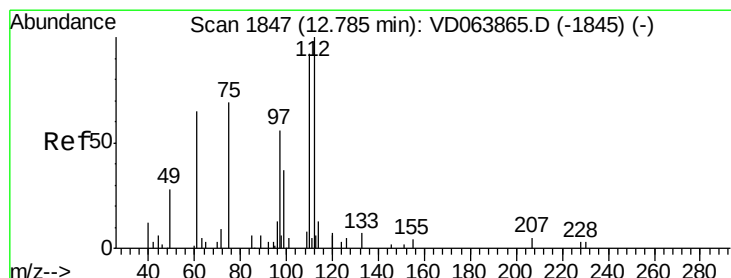
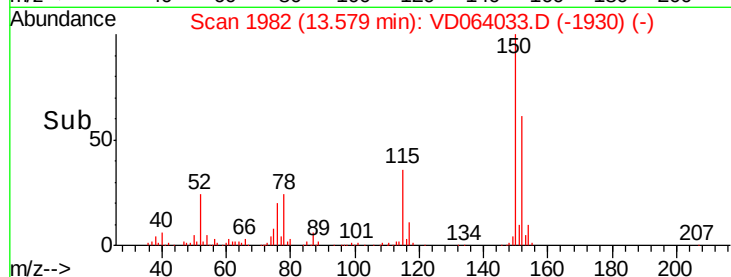
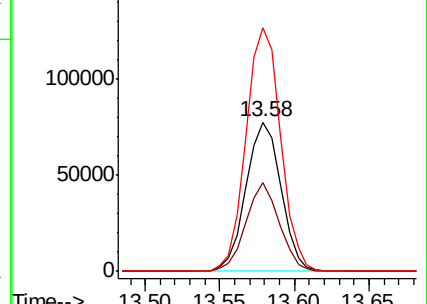
150 161.4 0.0 344.2



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: 69.614 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064033.D

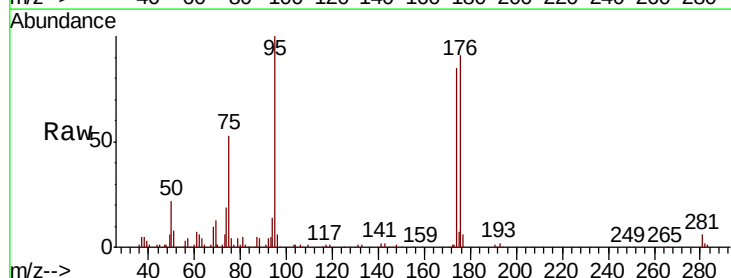
Acq: 23 Oct 2019 21:01

Tgt Ion: 75 Resp: 58426

Ion Ratio Lower Upper

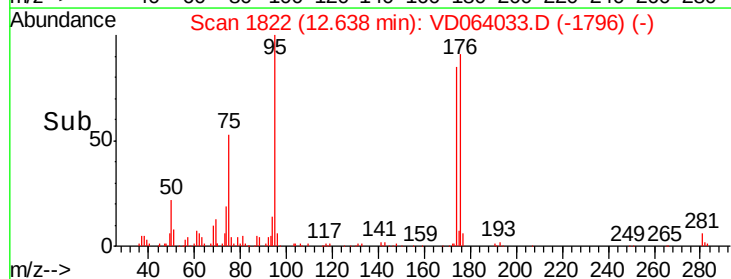
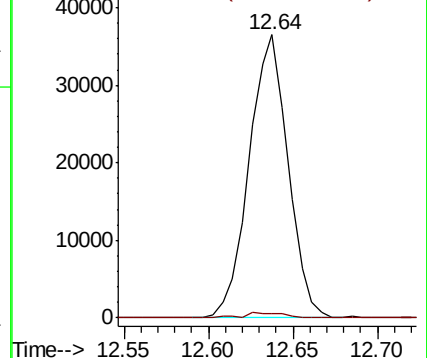
75 100

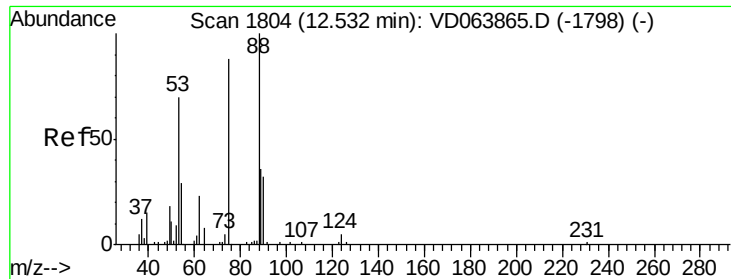
77 1.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 123.189 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064033.D

Acq: 23 Oct 2019 21:01

Instrument :

MSVOA_D

ClientSampleId :

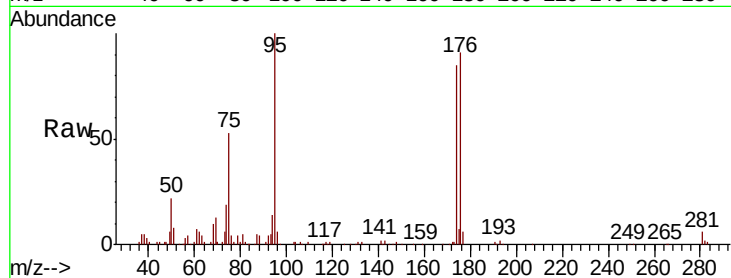
Tot Ion: 75 Resp: 58426

Ion Ratio Lower Upper

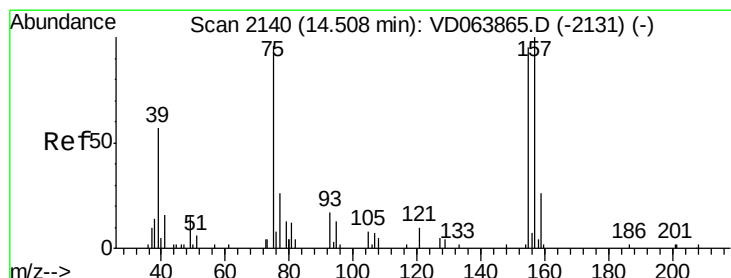
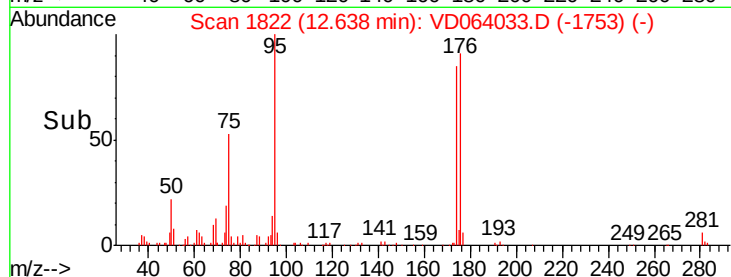
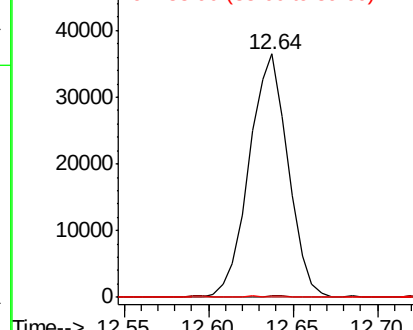
75 100

53 0.3 75.0 112.6#

89 0.2 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: 14.49 min Scan# 2137

Delta R.T. -0.02 min

Lab File: VD064033.D

Acq: 23 Oct 2019 21:01

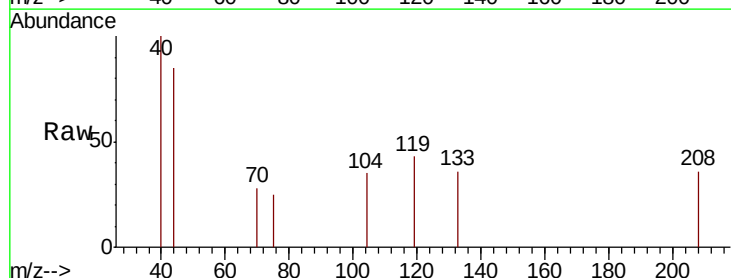
Tgt Ion: 75 Resp: 53

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

