

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102419\
 Data File : VD064045.D
 Acq On : 24 Oct 2019 14:26
 Operator : VA/SY
 Sample : K5485-06RE
 Misc : 4.29G/5.00ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 25 03:58:00 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	7.98	168	140300	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	272753	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	286386	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	132772	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	85901	62.89	ug/l	0.00
Spiked Amount						
			Recovery	=	125.78%	
35) Dibromofluoromethane	7.93	113	85320	51.19	ug/l	0.01
Spiked Amount						
			Recovery	=	102.38%	
50) Toluene-d8	10.34	98	375021	55.43	ug/l	0.00
Spiked Amount						
			Recovery	=	110.86%	
62) 4-Bromofluorobenzene	12.64	95	112226	47.73	ug/l	0.00
Spiked Amount						
			Recovery	=	95.46%	

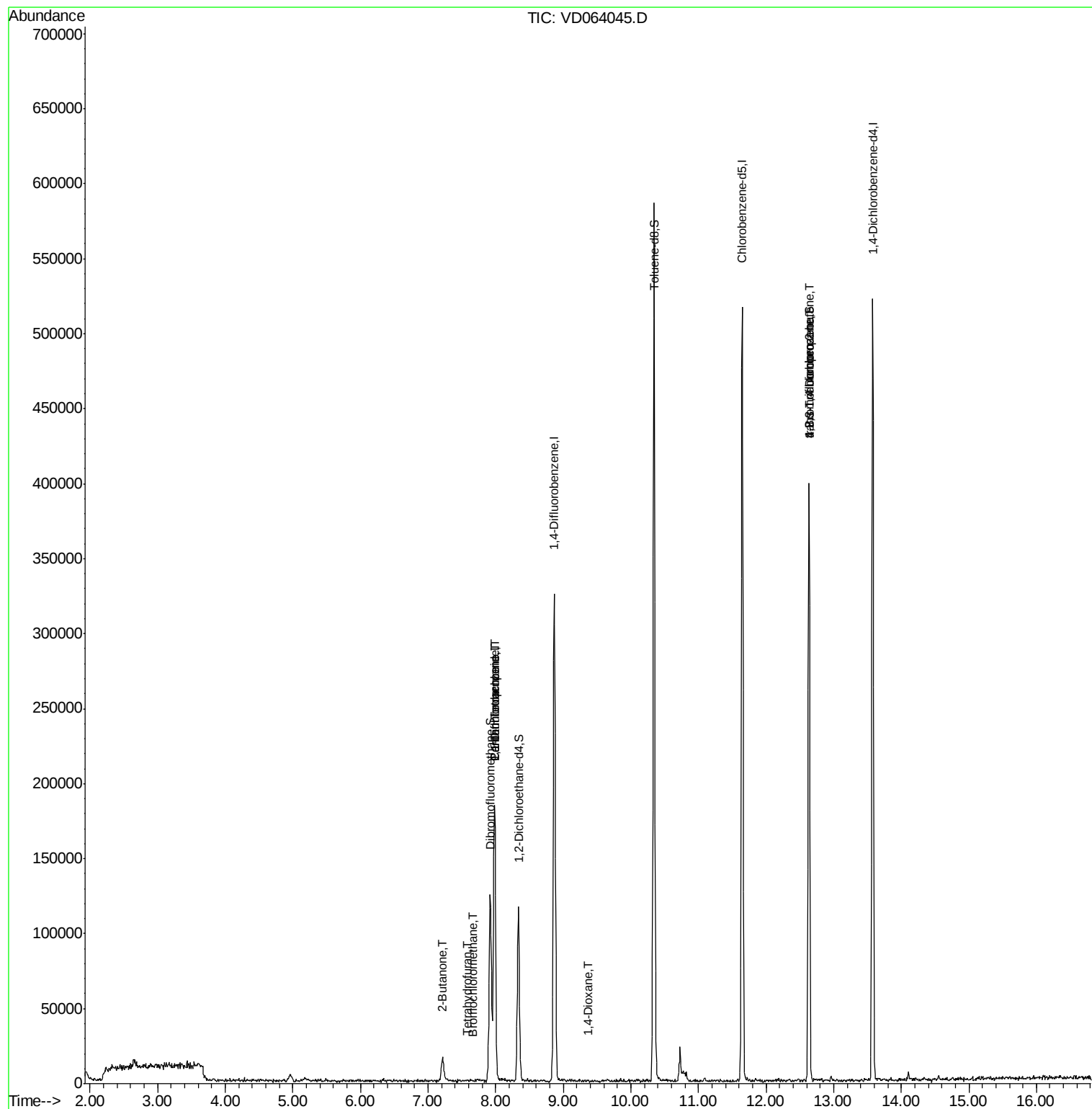
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.20	50	480	Below Cal		95
11) Tert butyl alcohol	5.24	59	216	Below Cal	#	71
20) Methylene Chloride	4.95	84	1618	Below Cal	#	83
25) 2-Butanone	7.22	43	760	1.803	ug/l #	51
28) Bromochloromethane	7.66	49	67	1.933	ug/l #	10
29) Tetrahydrofuran	7.58	42	332	1.350	ug/l #	31
31) Cyclohexane	7.98	56	3988	Below Cal	#	53
36) 1,1-Dichloropropene	7.98	75	12712	5.097	ug/l #	44
37) Ethyl Acetate	7.31	43	185	Below Cal	#	68
38) Carbon Tetrachloride	7.99	117	13301	5.278	ug/l #	17
49) 1,4-Dioxane	9.36	88	56	4.118	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	64419	72.440	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	64419	128.190	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.57	75	71	Below Cal	#	1

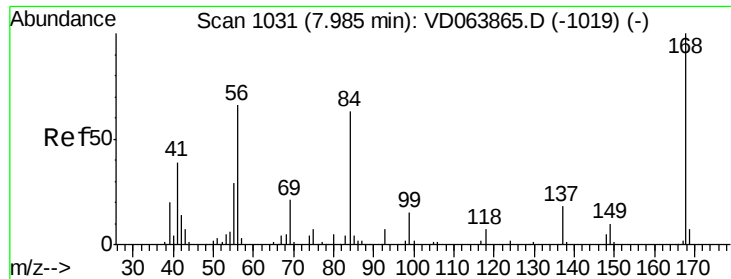
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD064045.D

Acq: 24 Oct 2019 14:26

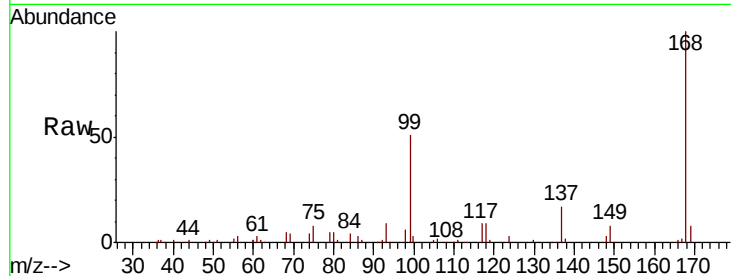
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 140300

Ion Ratio Lower Upper

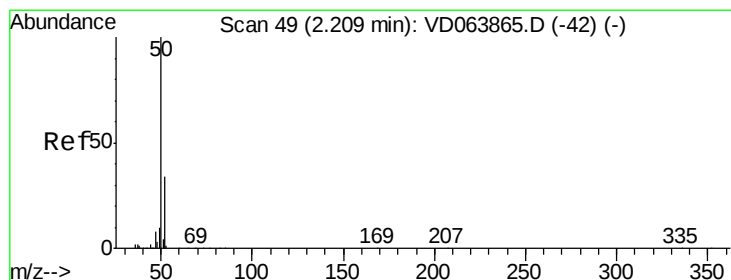
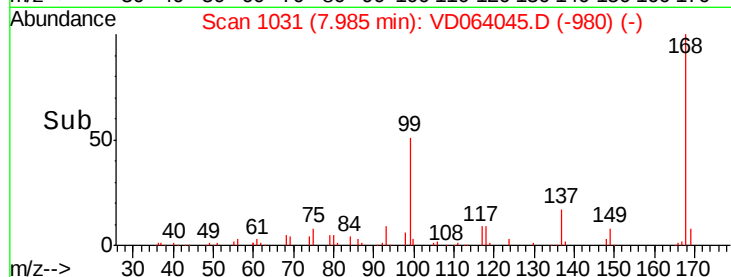
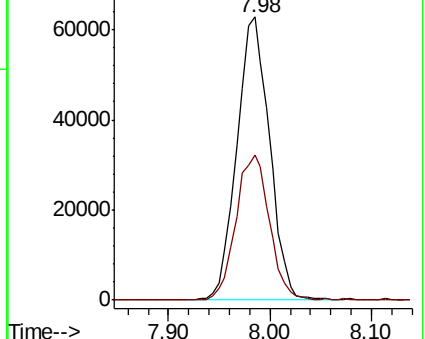
168 100

99 51.2 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: 2.20 min Scan# 48

Delta R.T. -0.01 min

Lab File: VD064045.D

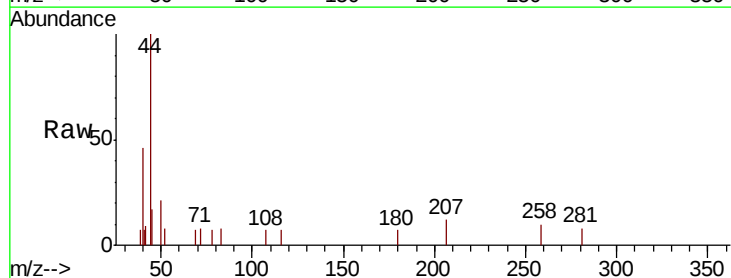
Acq: 24 Oct 2019 14:26

Tgt Ion: 50 Resp: 480

Ion Ratio Lower Upper

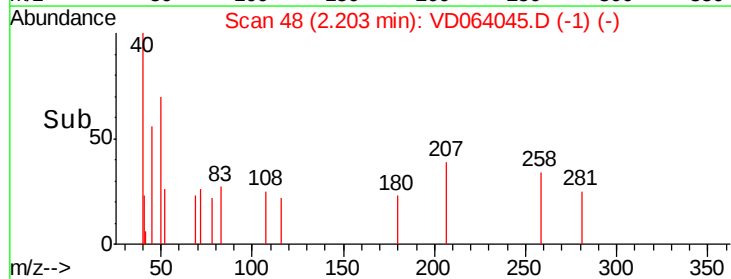
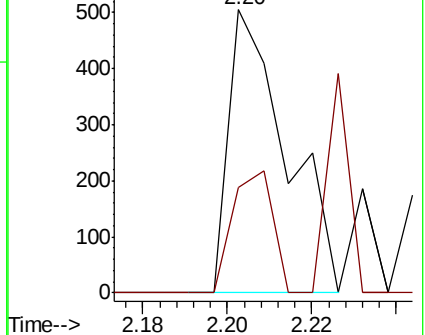
50 100

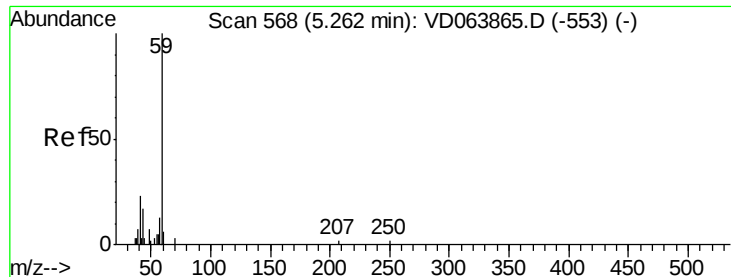
52 37.2 27.5 41.3



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



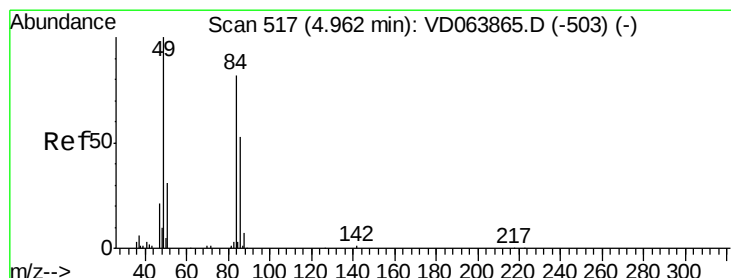
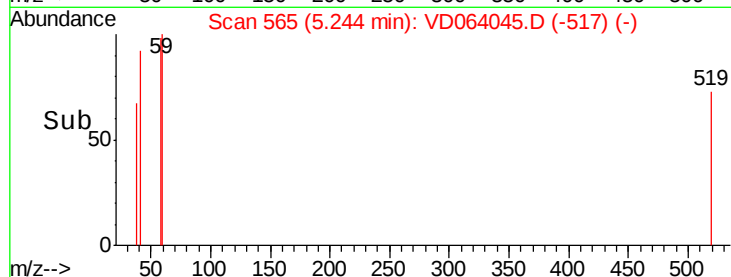
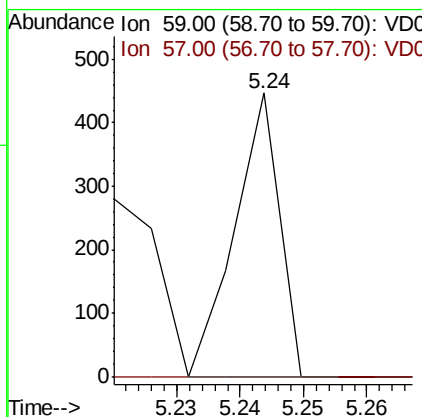
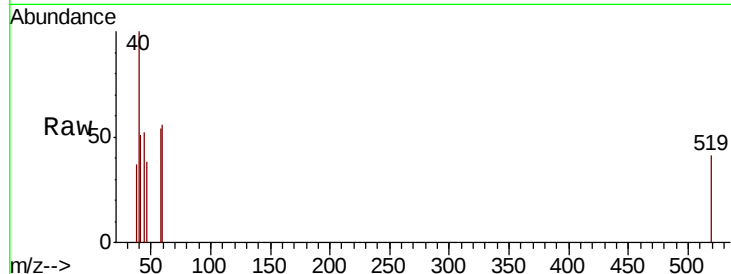


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.24 min Scan# 565
 Delta R.T. -0.02 min
 Lab File: VD064045.D
 Acq: 24 Oct 2019 14:26

Instrument :
 MSVOA_D
 ClientSampleId :

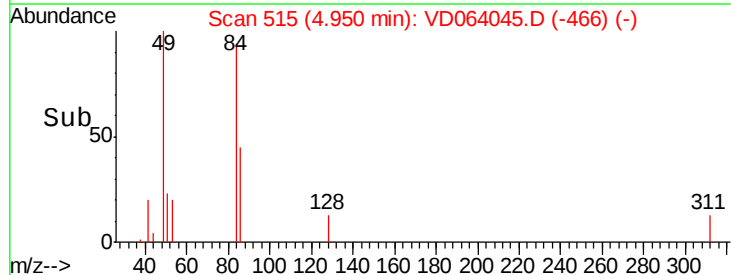
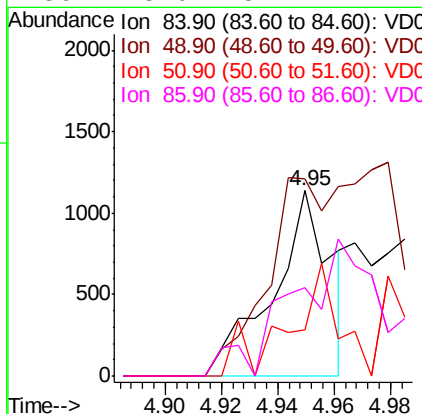
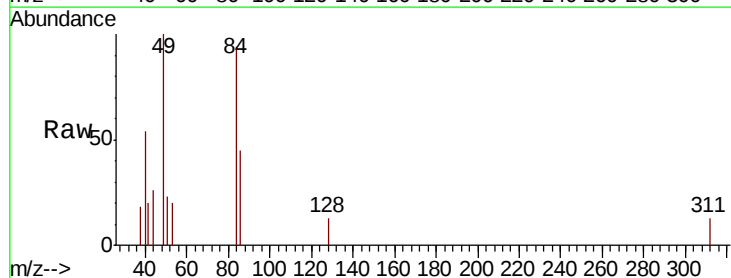
Tot Ion: 59 Resp: 216
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.8 13.2#

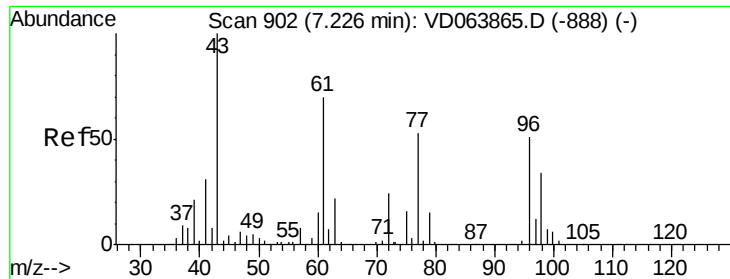


#20

Methylene Chloride
 Concen: Below Cal
 RT: 4.95 min Scan# 515
 Delta R.T. -0.01 min
 Lab File: VD064045.D
 Acq: 24 Oct 2019 14:26

Tgt Ion: 84 Resp: 1618
 Ion Ratio Lower Upper
 84 100
 49 106.2 97.3 145.9
 51 24.9 30.1 45.1#
 86 48.0 51.4 77.2#

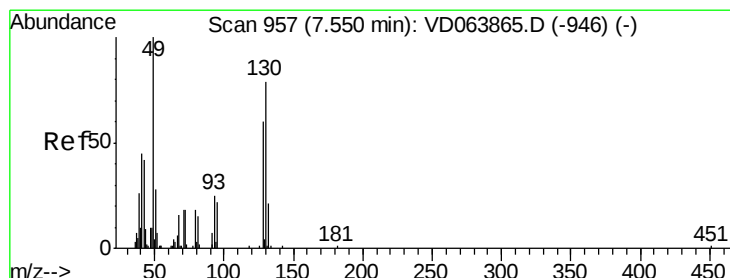
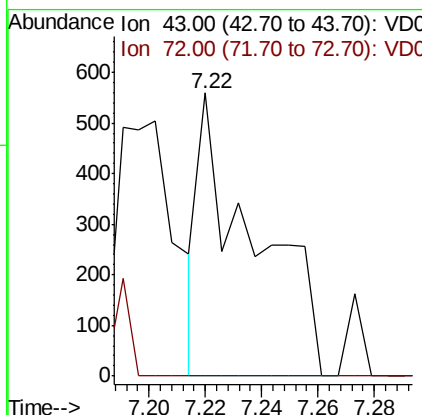
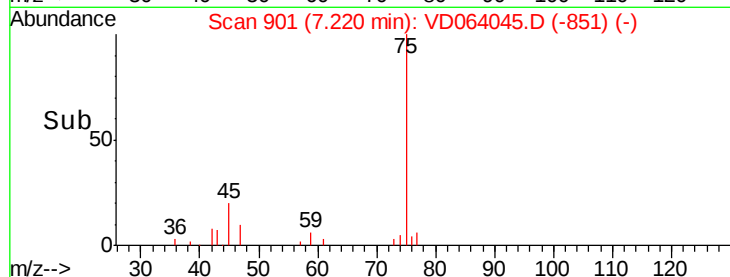
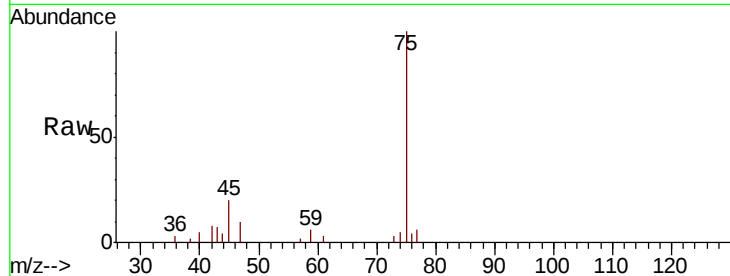




#25
 2-Butanone
 Concen: 1.803 ug/l
 RT: 7.22 min Scan# 901
 Delta R.T. -0.01 min
 Lab File: VD064045.D
 Acq: 24 Oct 2019 14:26

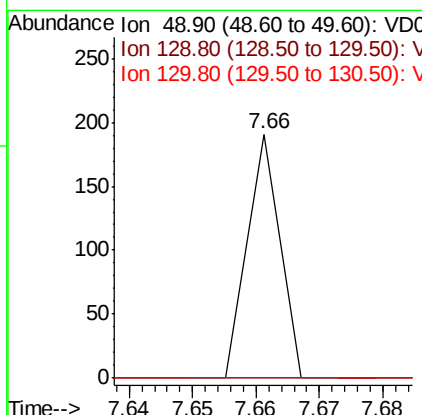
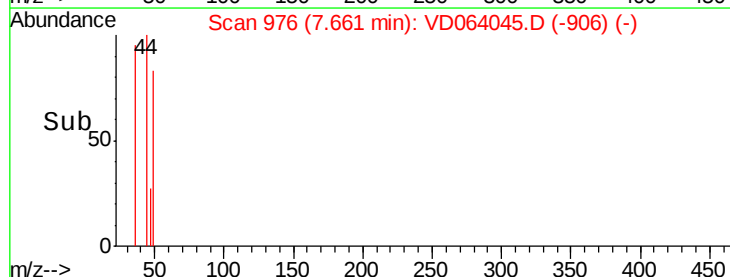
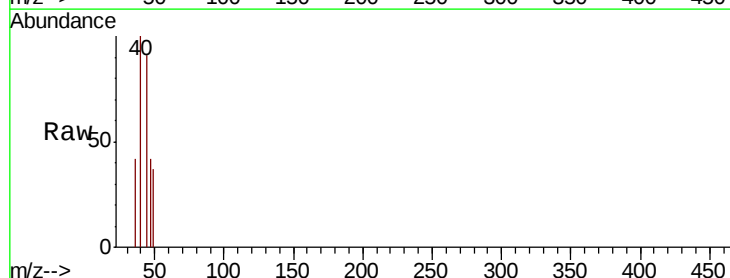
Instrument :
 MSVOA_D
 ClientSampled :

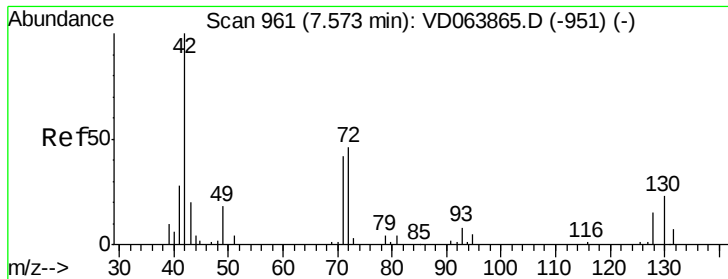
Tot Ion: 43 Resp: 760
 Ion Ratio Lower Upper
 43 100
 72 0.0 19.2 28.8#



#28
 Bromochloromethane
 Concen: 1.933 ug/l
 RT: 7.66 min Scan# 976
 Delta R.T. 0.11 min
 Lab File: VD064045.D
 Acq: 24 Oct 2019 14:26

Tgt Ion: 49 Resp: 67
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 5.6
 130 0.0 66.8 100.2#





#29

Tetrahydrofuran

Concen: 1.350 ug/l

RT: 7.58 min Scan# 963

Delta R.T. 0.01 min

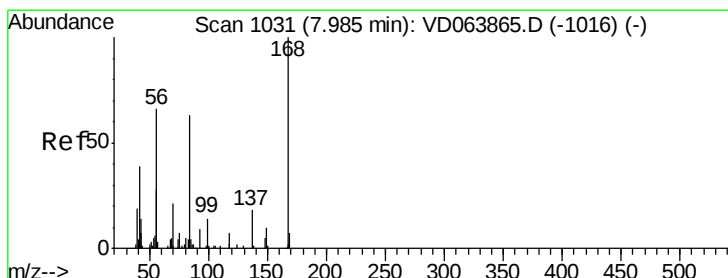
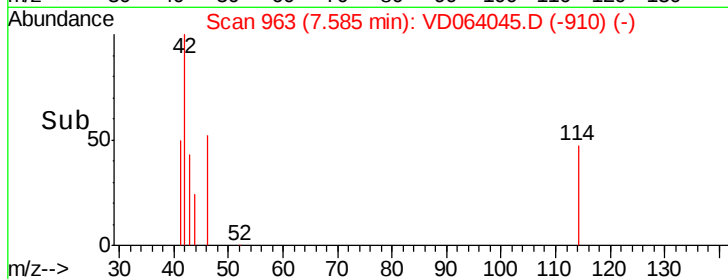
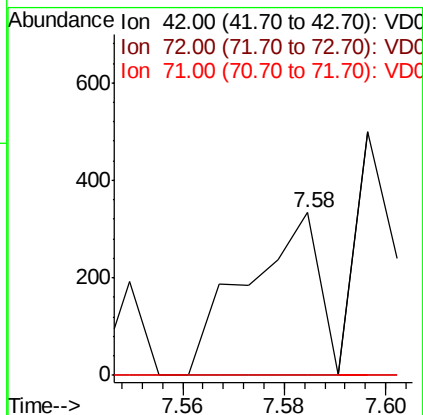
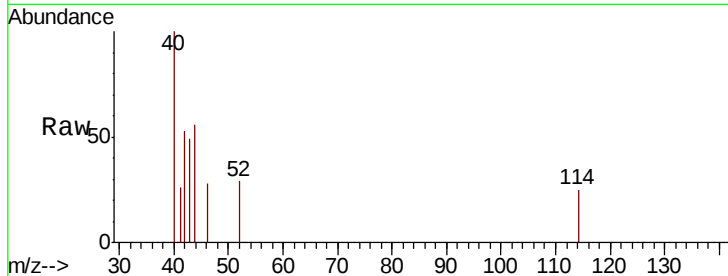
Lab File: VD064045.D

Acq: 24 Oct 2019 14:26

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 42 Resp: 332

Ion	Ratio	Lower	Upper
42	100		
72	0.0	37.6	56.4#
71	0.0	35.0	52.6#



#31

Cyclohexane

Concen: Below Cal

RT: 7.98 min Scan# 1030

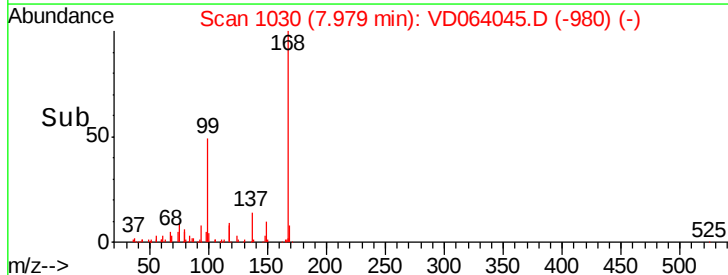
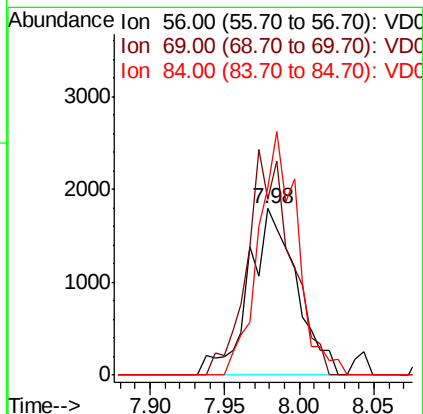
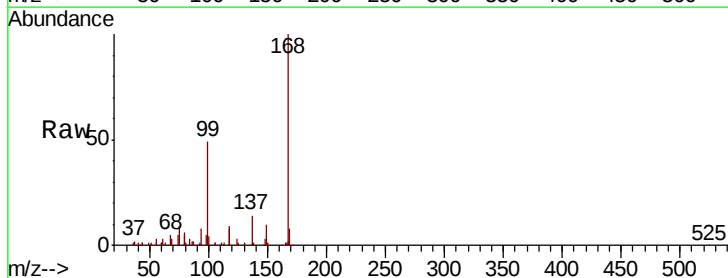
Delta R.T. -0.01 min

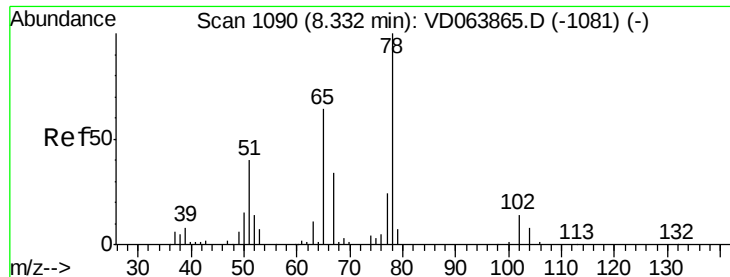
Lab File: VD064045.D

Acq: 24 Oct 2019 14:26

Tgt Ion: 56 Resp: 3988

Ion	Ratio	Lower	Upper
56	100		
69	105.9	25.0	37.4#
84	112.7	76.3	114.5





#33

1,2-Dichloroethane-d4

Concen: 62.888 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VD064045.D

Acq: 24 Oct 2019 14:26

Instrument :

MSVOA_D

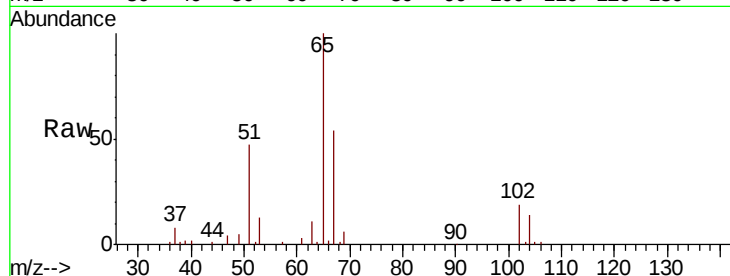
ClientSampleId :

Tot Ion: 65 Resp: 85901

Ion Ratio Lower Upper

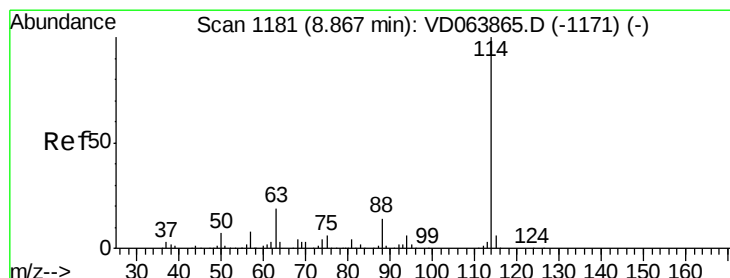
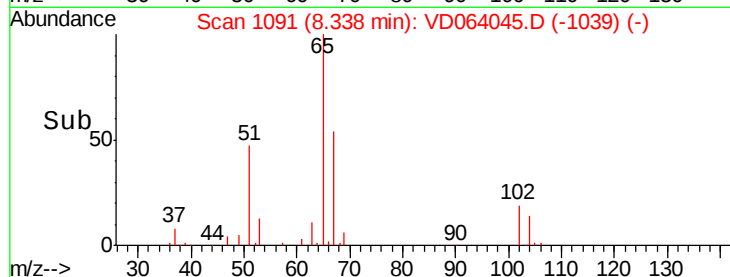
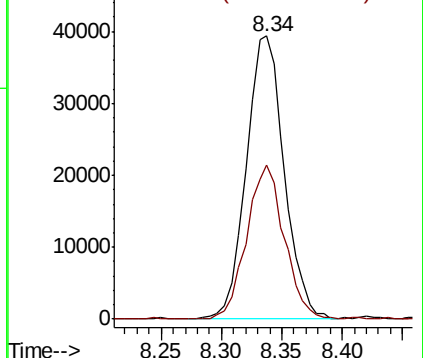
65 100

67 53.8 0.0 106.4



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VD064045.D

Acq: 24 Oct 2019 14:26

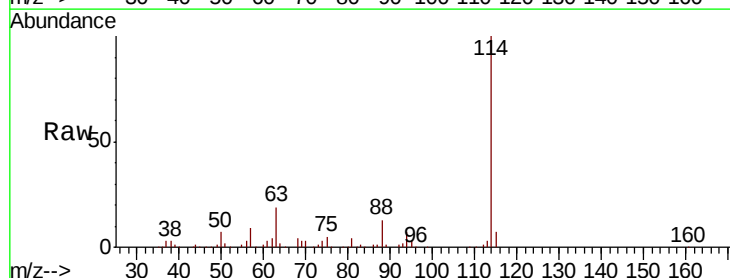
Tgt Ion: 114 Resp: 272753

Ion Ratio Lower Upper

114 100

63 18.9 0.0 38.4

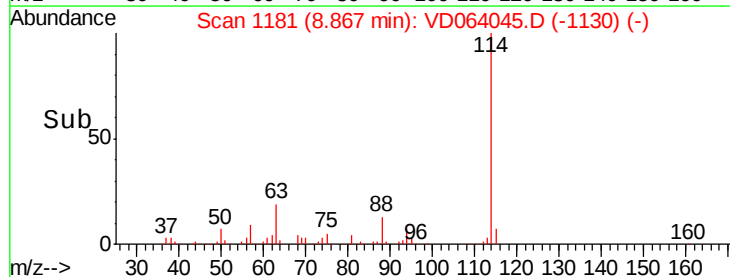
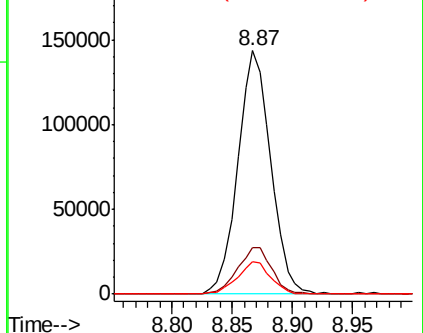
88 13.1 0.0 27.4

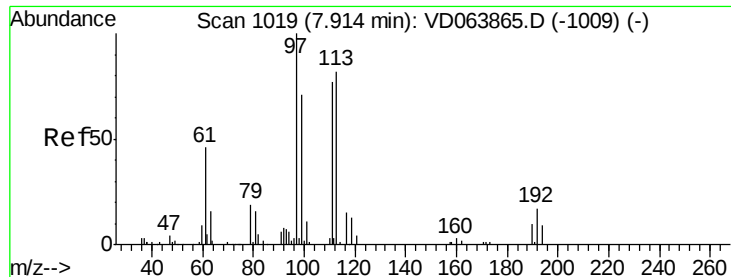


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

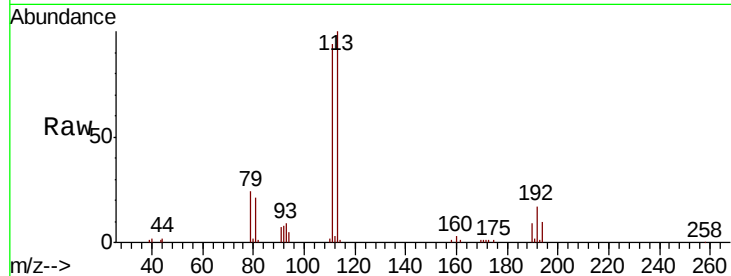




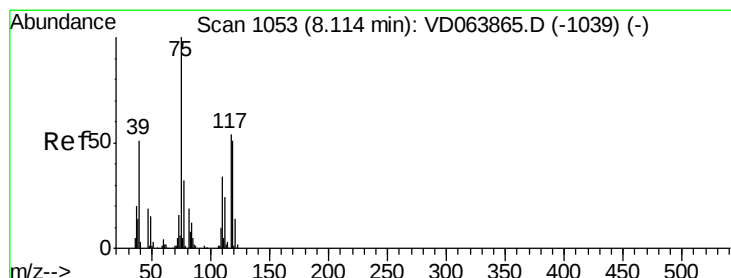
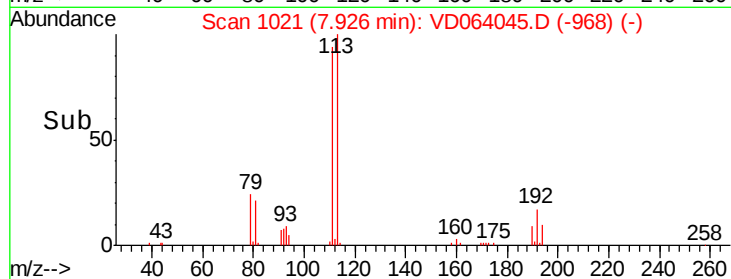
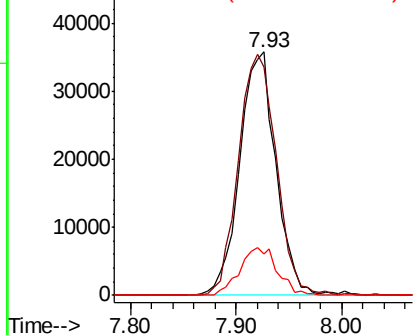
#35
 Dibromofluoromethane
 Concen: 51.186 ug/l
 RT: 7.93 min Scan# 1021
 Delta R.T. 0.01 min
 Lab File: VD064045.D
 Acq: 24 Oct 2019 14:26

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:113 Resp: 85320
 Ion Ratio Lower Upper
 113 100
 111 103.2 82.6 123.8
 192 20.3 17.1 25.7

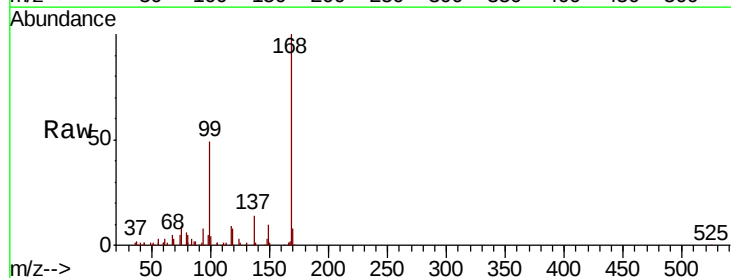


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

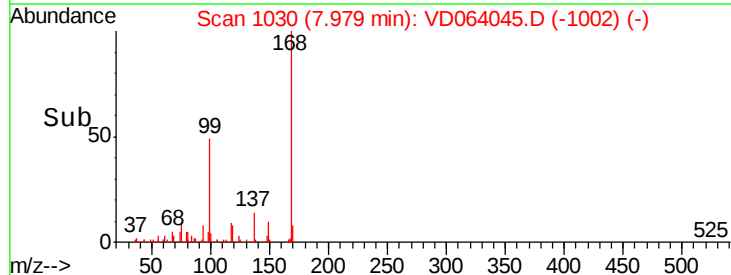
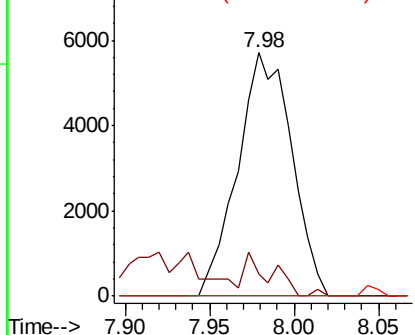


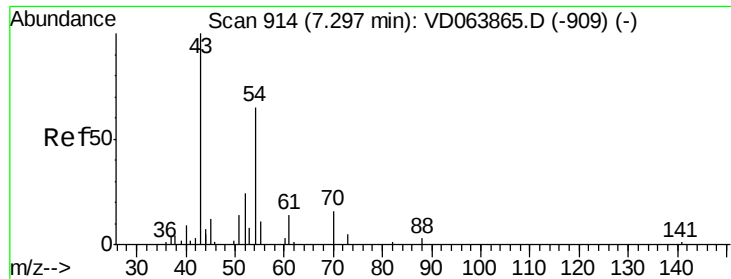
#36
 1,1-Dichloropropene
 Concen: 5.097 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD064045.D
 Acq: 24 Oct 2019 14:26

Tgt Ion: 75 Resp: 12712
 Ion Ratio Lower Upper
 75 100
 110 2.7 17.4 52.3#
 77 0.0 25.4 38.0#



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

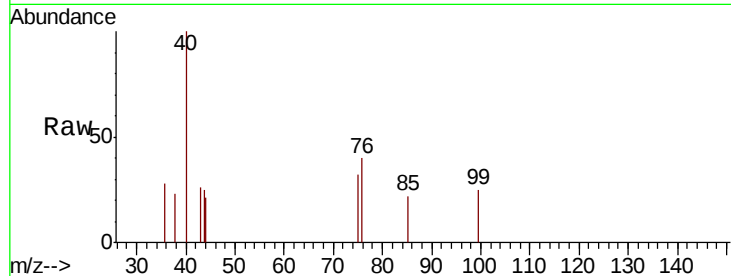




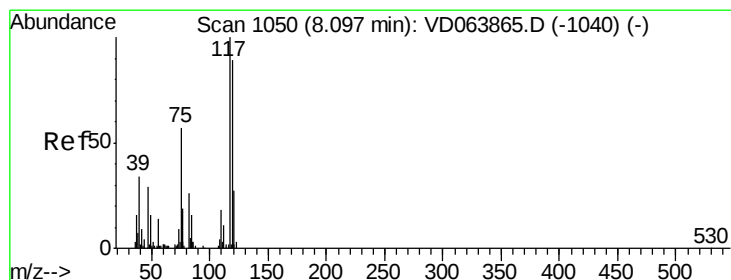
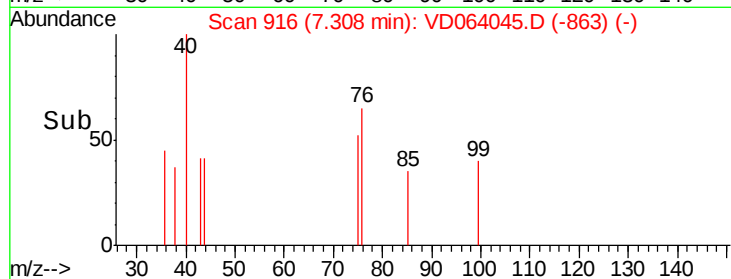
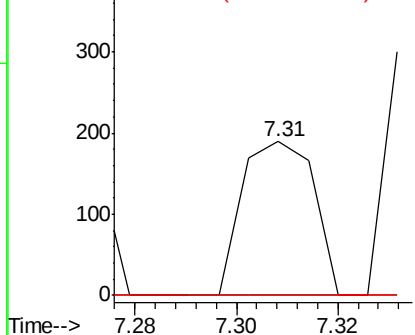
#37
Ethyl Acetate
Concen: Below Cal
RT: 7.31 min Scan# 916
Delta R.T. 0.01 min
Lab File: VD064045.D
Acq: 24 Oct 2019 14:26

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 43 Resp: 185
Ion Ratio Lower Upper
43 100
61 0.0 11.5 17.3#
70 0.0 8.2 12.4#

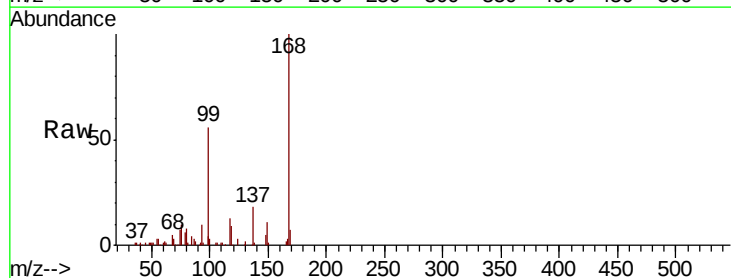


Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 70.00 (69.70 to 70.70): VDC

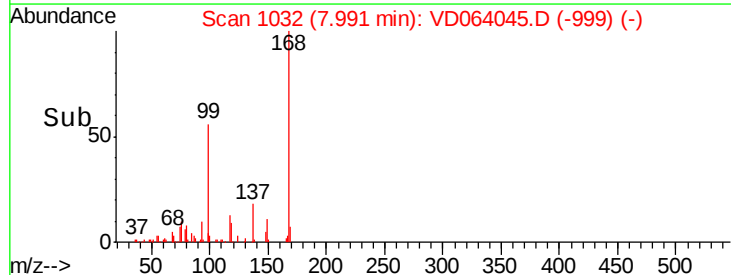
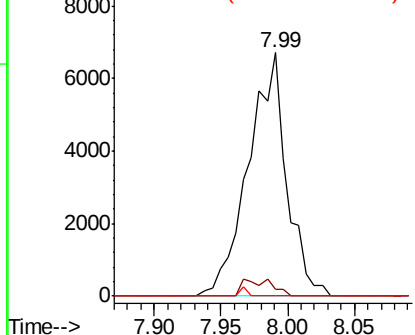


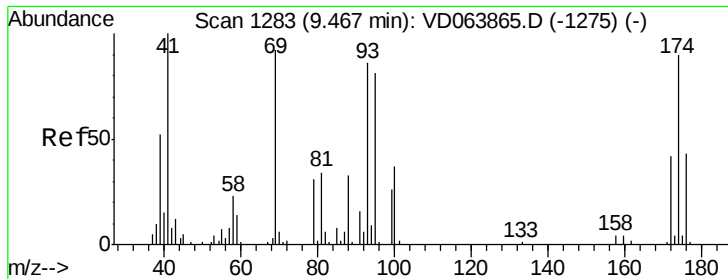
#38
Carbon Tetrachloride
Concen: 5.278 ug/l
RT: 7.99 min Scan# 1032
Delta R.T. -0.11 min
Lab File: VD064045.D
Acq: 24 Oct 2019 14:26

Tgt Ion: 117 Resp: 13301
Ion Ratio Lower Upper
117 100
119 2.7 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

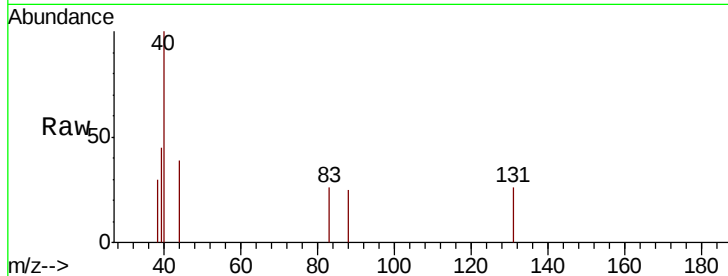




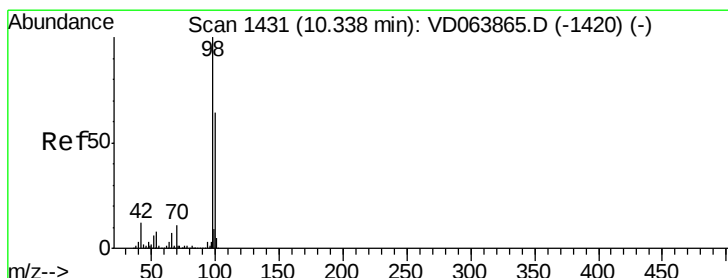
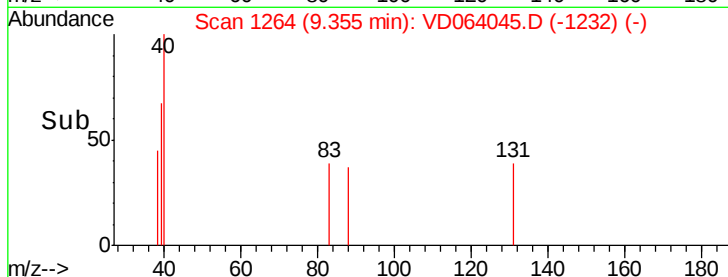
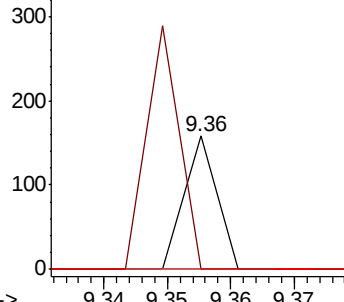
#49
1,4-Dioxane
Concen: 4.118 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. -0.11 min
Lab File: VD064045.D
Acq: 24 Oct 2019 14:26

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 88 Resp: 56
Ion Ratio Lower Upper
88 100
43 182.1 27.6 41.4#
58 0.0 54.1 81.1#

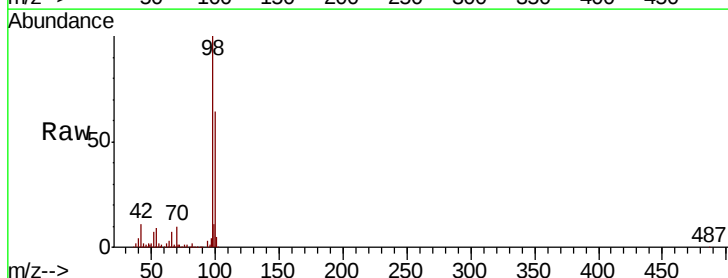


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.00 (42.70 to 43.70): VDC
Ion 58.00 (57.70 to 58.70): VDC

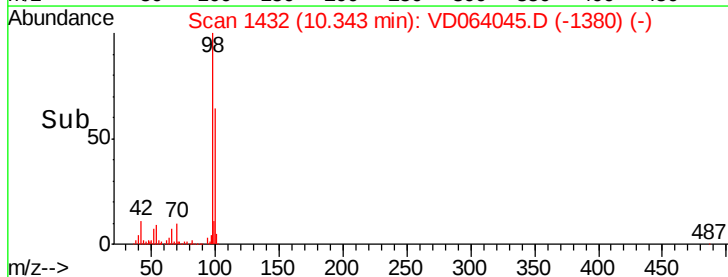
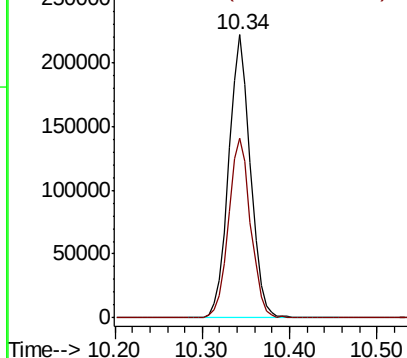


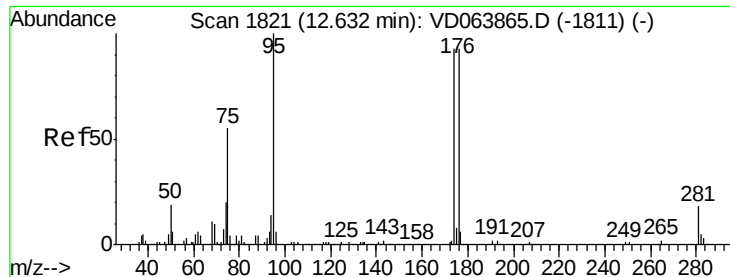
#50
Toluene-d8
Concen: 55.431 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.01 min
Lab File: VD064045.D
Acq: 24 Oct 2019 14:26

Tgt Ion: 98 Resp: 375021
Ion Ratio Lower Upper
98 100
100 64.6 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: 47.735 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.01 min

Lab File: VD064045.D

Acq: 24 Oct 2019 14:26

Instrument :

MSVOA_D

ClientSampleId :

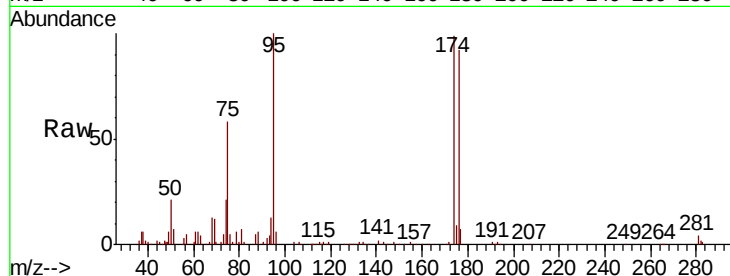
Tot Ion: 95 Resp: 112226

Ion Ratio Lower Upper

95 100

174 93.4 0.0 186.4

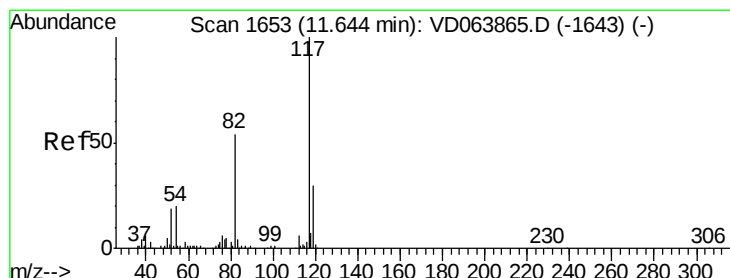
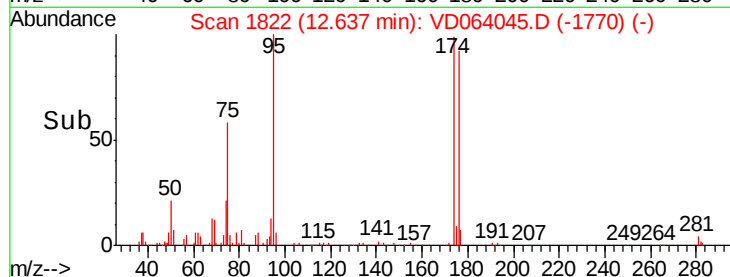
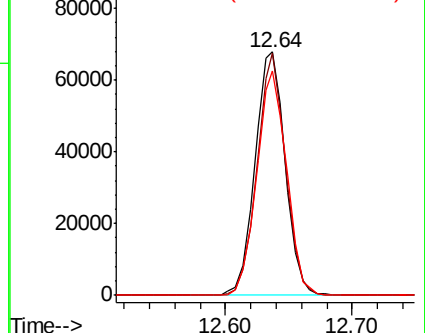
176 91.2 0.0 184.2



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: VD064045.D

Acq: 24 Oct 2019 14:26

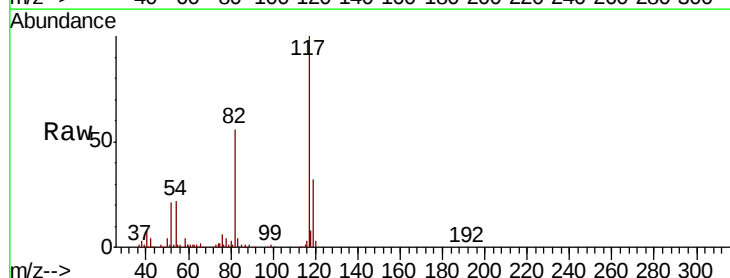
Tgt Ion: 117 Resp: 286386

Ion Ratio Lower Upper

117 100

82 55.6 42.8 64.2

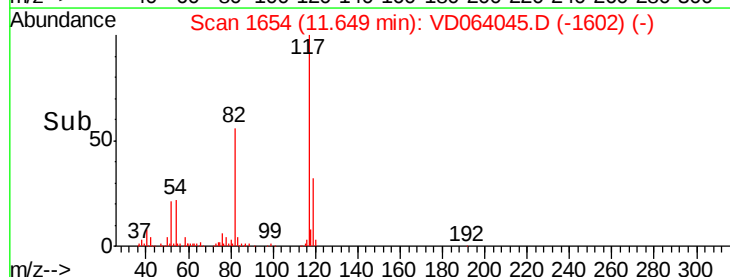
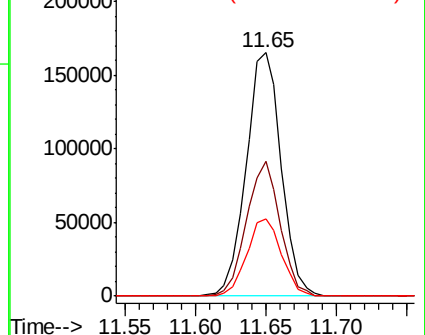
119 31.8 24.4 36.6

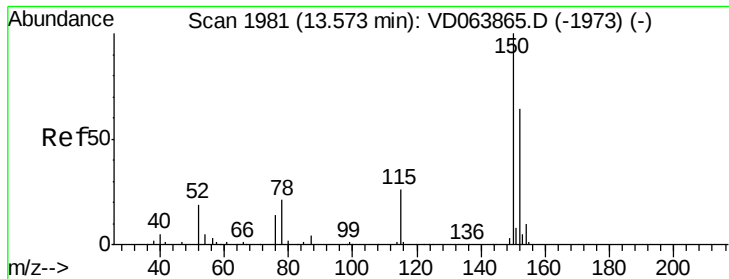


Abundance Ion 116.90 (116.60 to 117.60): V

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: VD064045.D

Acq: 24 Oct 2019 14:26

Instrument :

MSVOA_D

ClientSampleId :

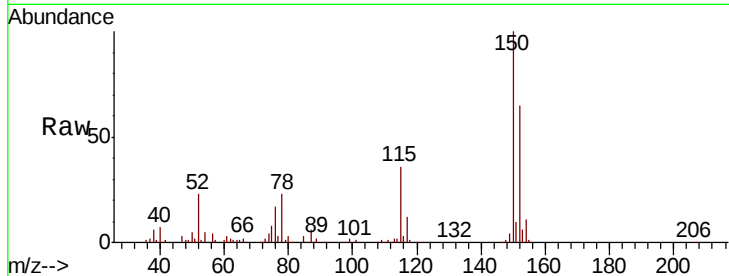
Tot Ion:152 Resp: 132772

Ion Ratio Lower Upper

152 100

115 54.0 25.9 77.7

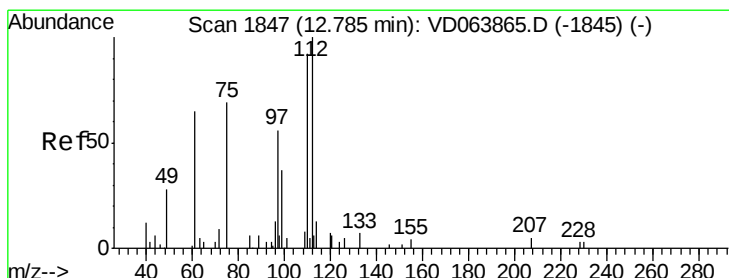
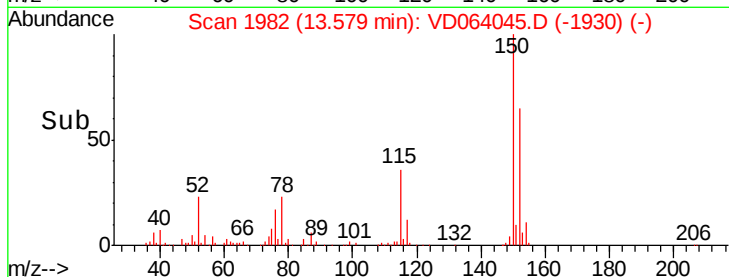
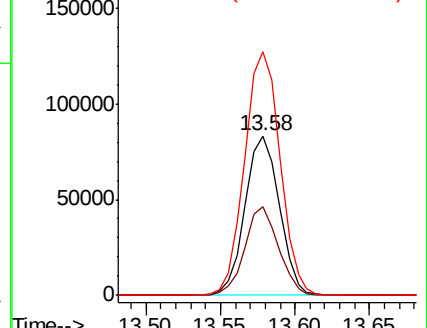
150 157.6 0.0 344.2



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: 72.440 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064045.D

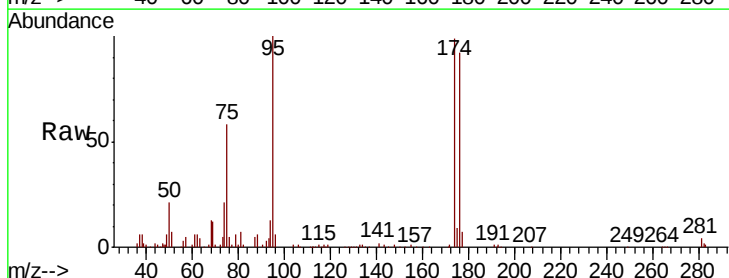
Acq: 24 Oct 2019 14:26

Tgt Ion: 75 Resp: 64419

Ion Ratio Lower Upper

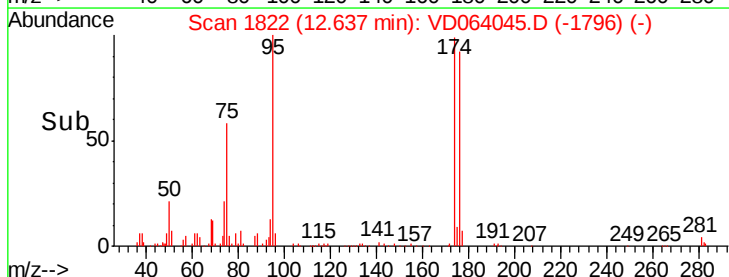
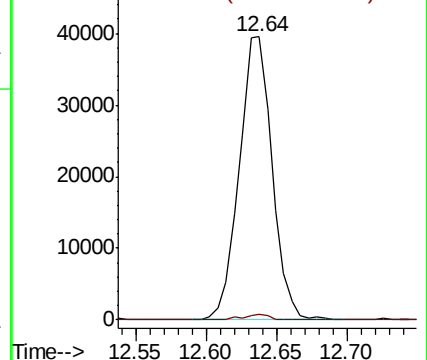
75 100

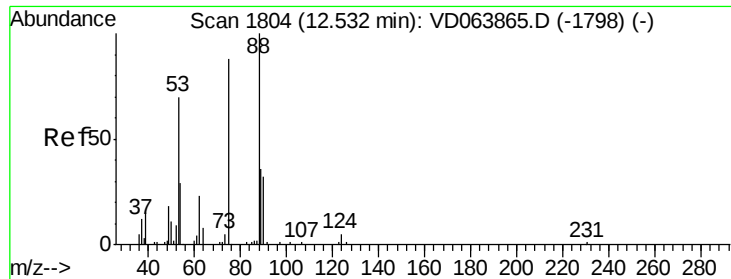
77 1.4 0.0 0.0#



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: 128.190 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064045.D

Acq: 24 Oct 2019 14:26

Instrument :

MSVOA_D

ClientSampleId :

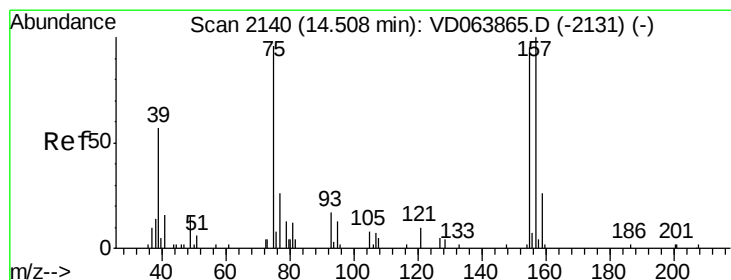
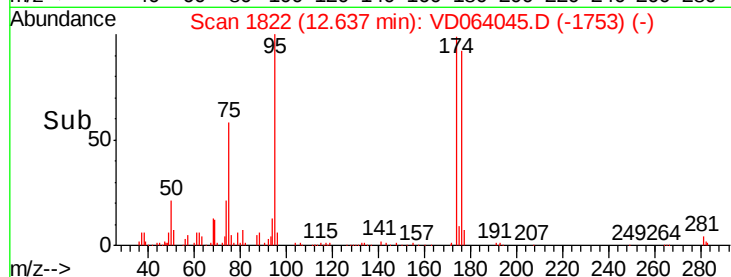
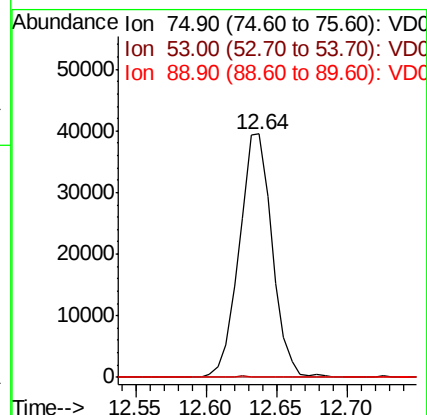
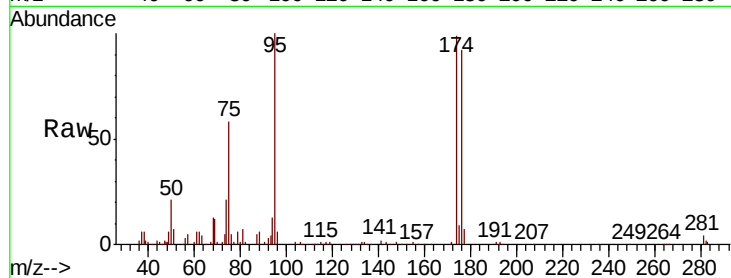
Tot Ion: 75 Resp: 64419

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: 14.57 min Scan# 2150

Delta R.T. 0.06 min

Lab File: VD064045.D

Acq: 24 Oct 2019 14:26

Tgt Ion: 75 Resp: 71

Ion Ratio Lower Upper

75 100

155 0.0 43.9 131.6#

157 0.0 56.0 167.9#

