

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102319\
 Data File : VD064028.D
 Acq On : 23 Oct 2019 18:40
 Operator : VA/SY
 Sample : K5497-16
 Misc : 6.08G/5.00ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 24 05:59:36 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	135167	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	266180	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	271625	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	114493	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	84518	64.23	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	128.46%	
35) Dibromofluoromethane	7.93	113	83974	51.62	ug/l	0.01
Spiked Amount				50.000		
			Recovery	=	103.24%	
50) Toluene-d8	10.34	98	369794	56.01	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	112.02%	
62) 4-Bromofluorobenzene	12.63	95	101763	44.35	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	88.70%	

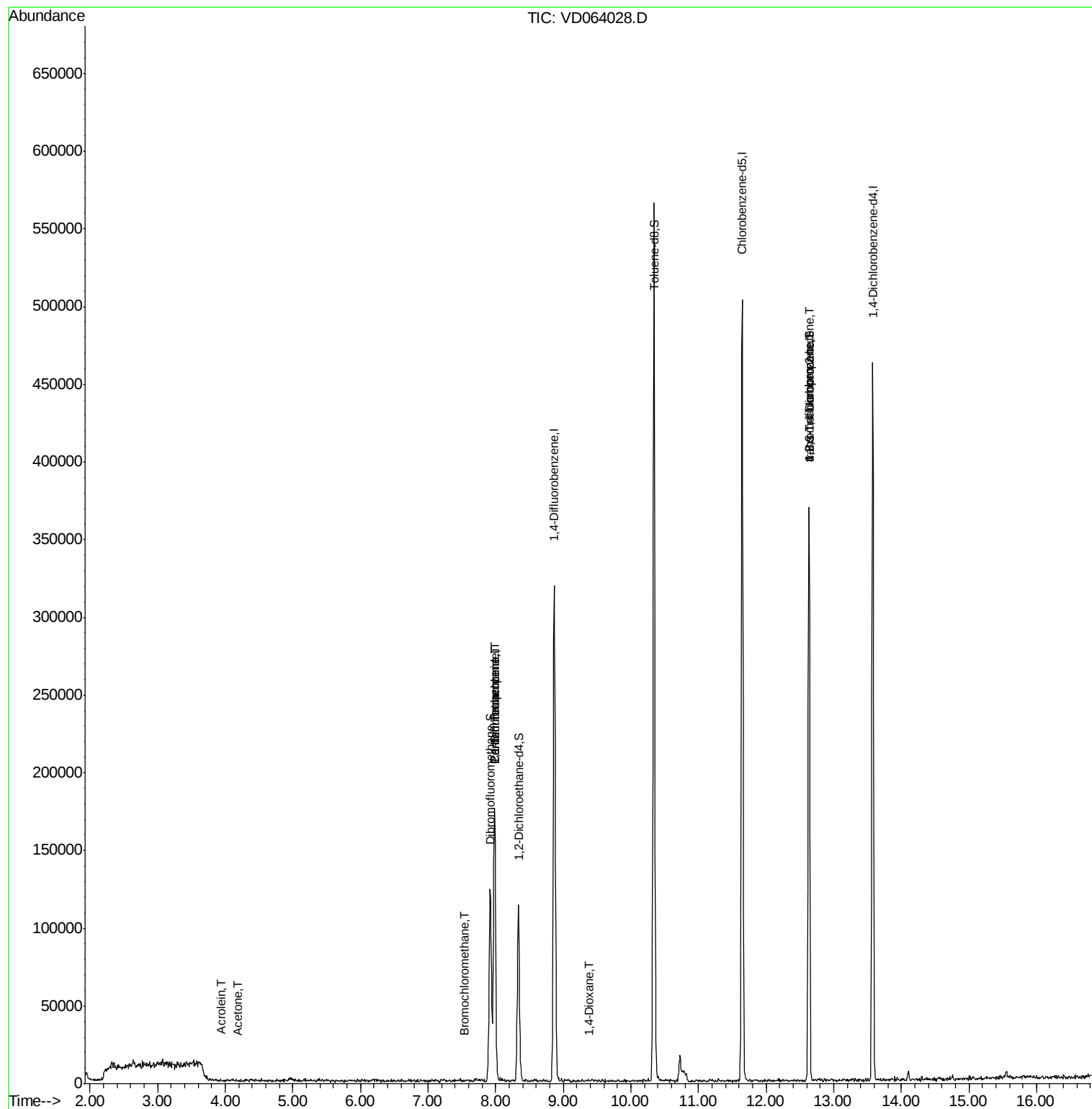
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.20	50	414	Below Cal	#	88
11) Tert butyl alcohol	5.26	59	275	Below Cal	#	75
13) Acrolein	3.93	56	135	1.149	ug/l #	17
16) Acetone	4.18	43	413	1.205	ug/l #	42
20) Methylene Chloride	4.96	84	677	Below Cal	#	35
28) Bromochloromethane	7.54	49	57	1.925	ug/l #	10
31) Cyclohexane	7.98	56	3697	Below Cal	#	59
36) 1,1-Dichloropropene	7.98	75	10771	4.426	ug/l #	47
37) Ethyl Acetate	7.27	43	126	Below Cal	#	68
38) Carbon Tetrachloride	7.98	117	13474	5.479	ug/l #	20
49) 1,4-Dioxane	9.38	88	100	7.535	ug/l #	55
76) 1,2,3-Trichloropropane	12.64	75	57874	75.471	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	57874	133.553	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.50	75	132	Below Cal	#	1

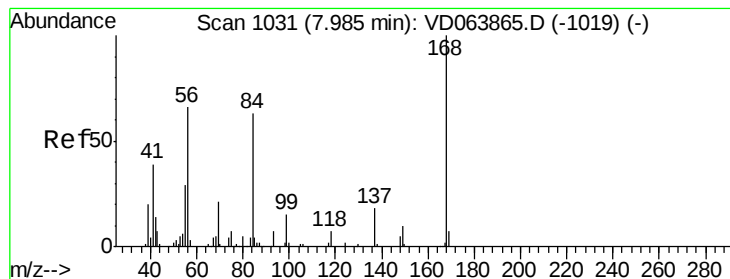
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1031

Delta R.T. -0.00 min

Lab File: VD064028.D

Acq: 23 Oct 2019 18:40

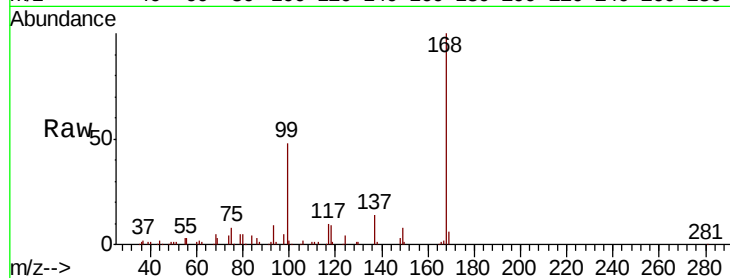
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 135167

Ion Ratio Lower Upper

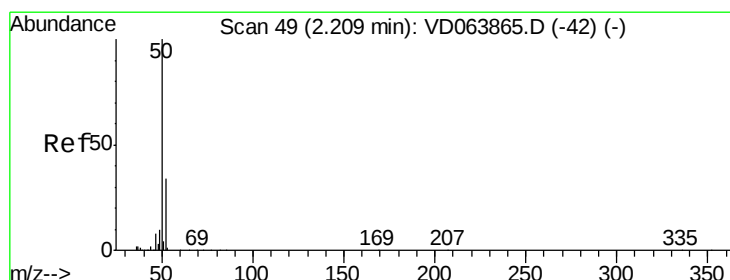
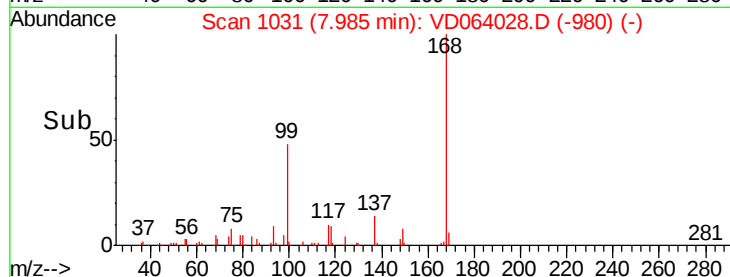
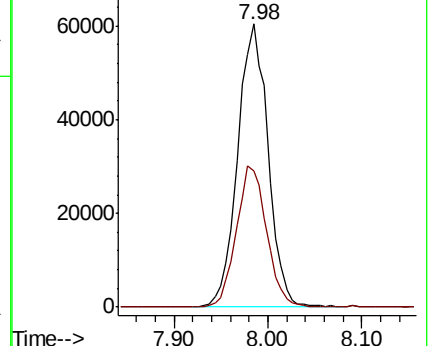
168 100

99 48.3 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: VD064028.D

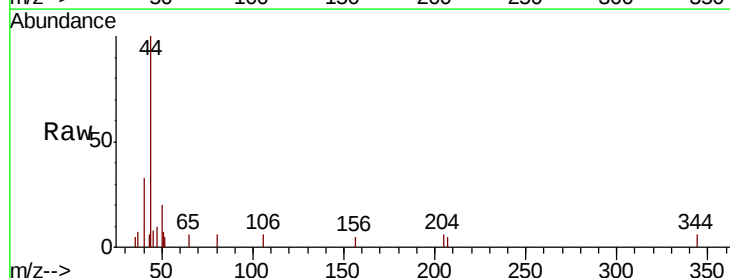
Acq: 23 Oct 2019 18:40

Tgt Ion: 50 Resp: 414

Ion Ratio Lower Upper

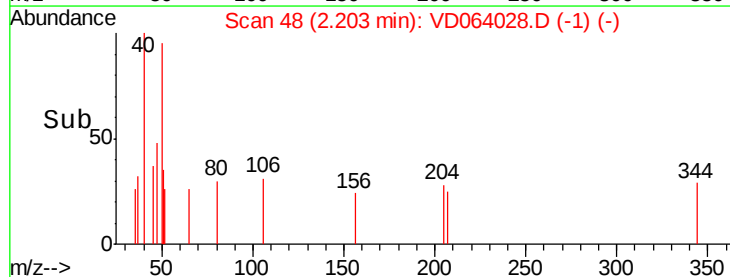
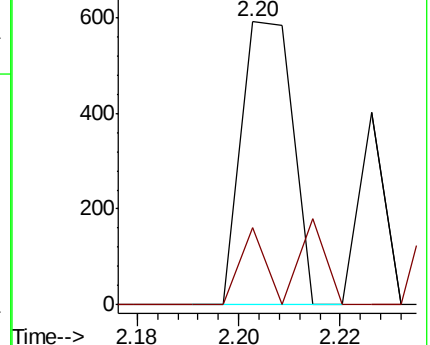
50 100

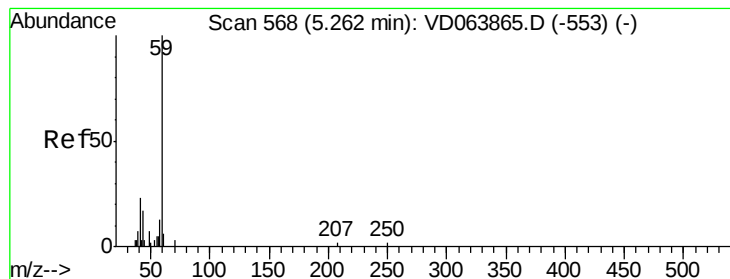
52 27.4 27.5 41.3#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



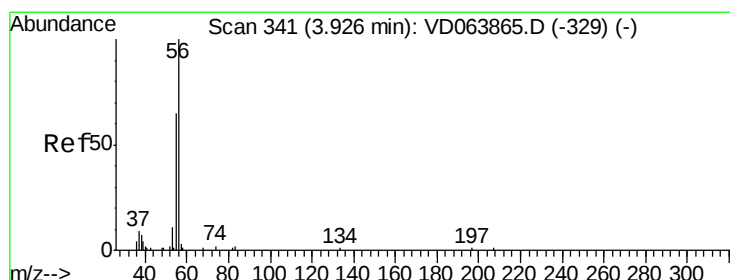
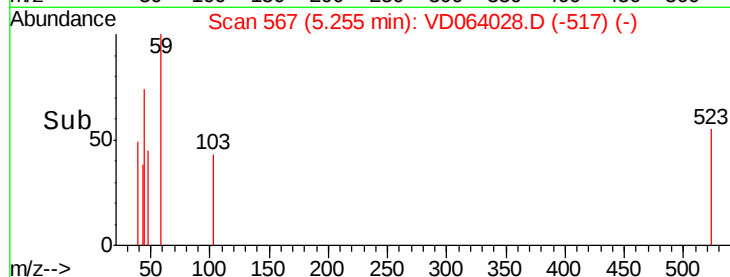
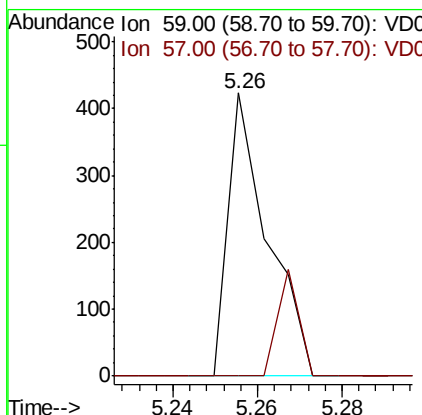
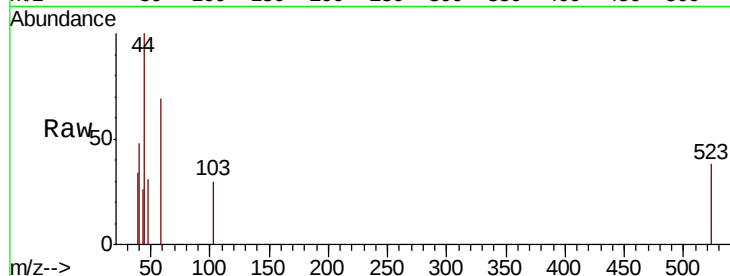


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.26 min Scan# 567
 Delta R.T. -0.01 min
 Lab File: VD064028.D
 Acq: 23 Oct 2019 18:40

Instrument :
 MSVOA_D
 ClientSampleID :

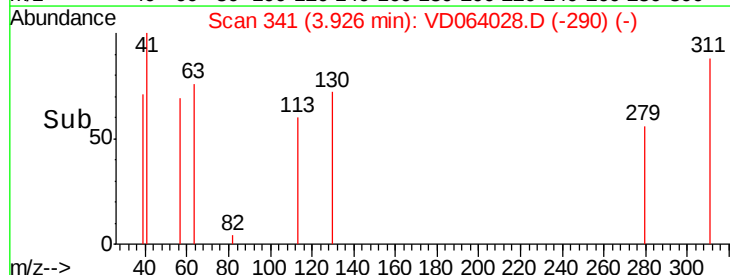
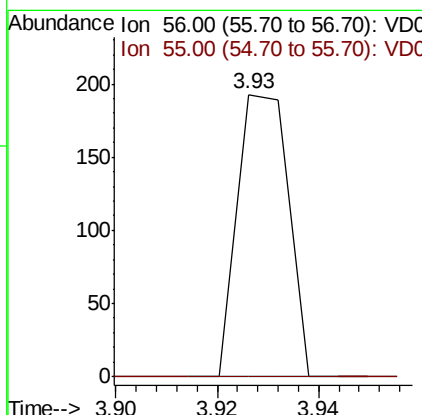
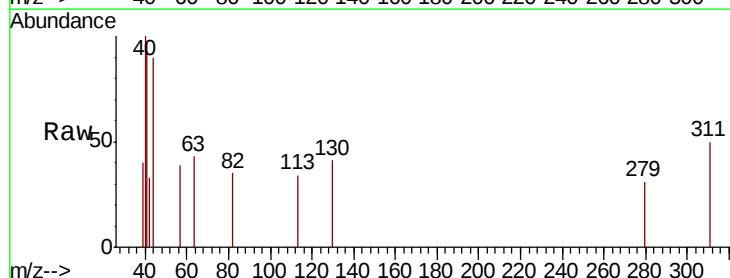
Tot Ion: 59 Resp: 275
 Ion Ratio Lower Upper
 59 100
 57 20.4 8.8 13.2#

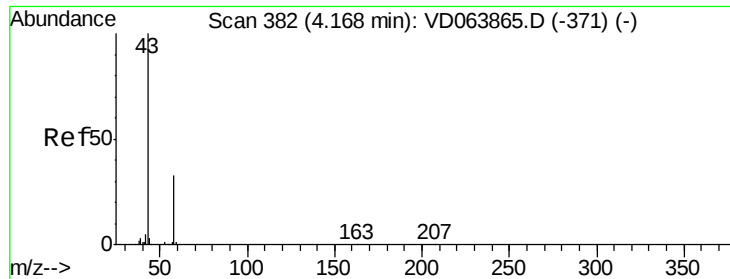


#13

Acrolein
 Concen: 1.149 ug/l
 RT: 3.93 min Scan# 341
 Delta R.T. -0.00 min
 Lab File: VD064028.D
 Acq: 23 Oct 2019 18:40

Tgt Ion: 56 Resp: 135
 Ion Ratio Lower Upper
 56 100
 55 0.0 53.0 79.6#





#16

Acetone

Concen: 1.205 ug/l

RT: 4.18 min Scan# 384

Delta R.T. 0.01 min

Lab File: VD064028.D

Acq: 23 Oct 2019 18:40

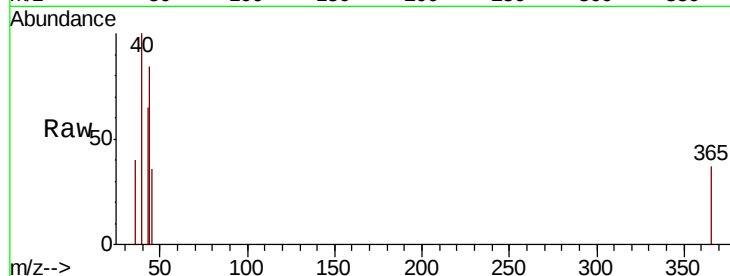
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 43 Resp: 413

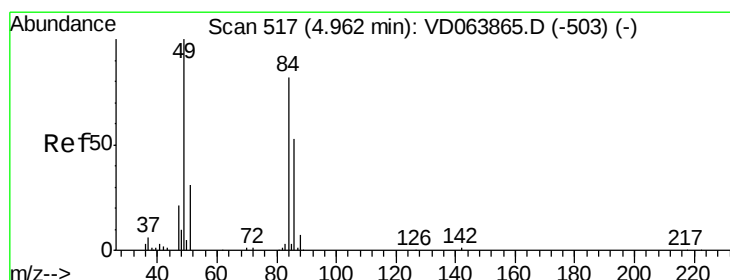
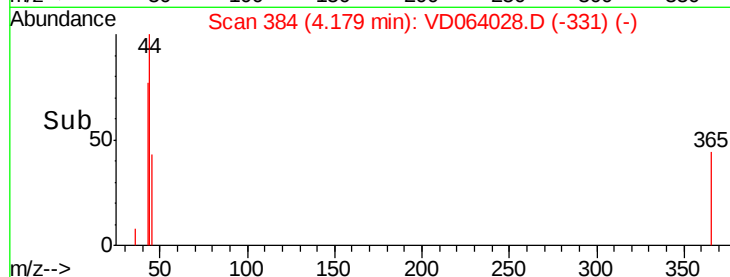
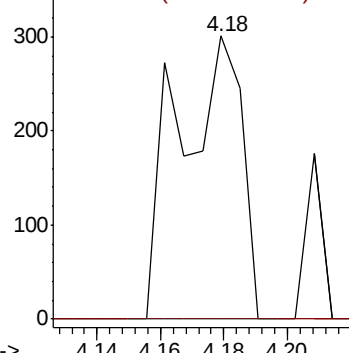
Ion Ratio Lower Upper

43 100

58 0.0 26.2 39.4#



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



#20

Methylene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 517

Delta R.T. 0.00 min

Lab File: VD064028.D

Acq: 23 Oct 2019 18:40

Tgt Ion: 84 Resp: 677

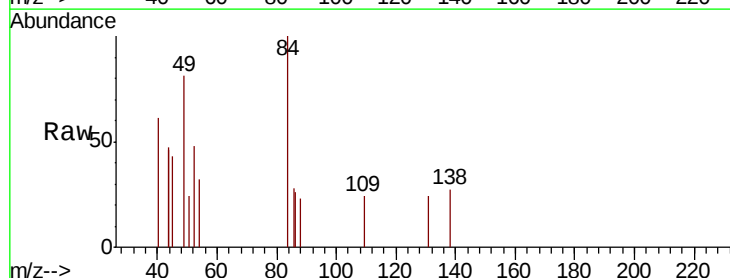
Ion Ratio Lower Upper

84 100

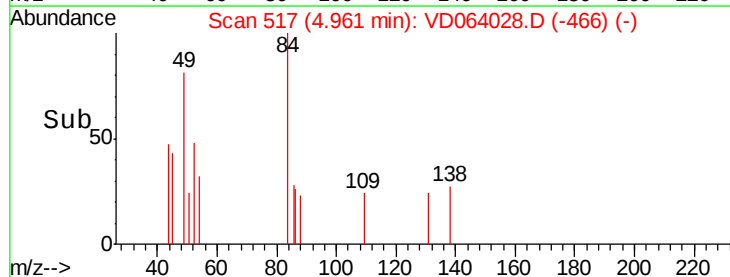
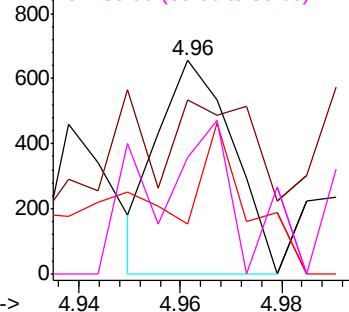
49 47.1 97.3 145.9#

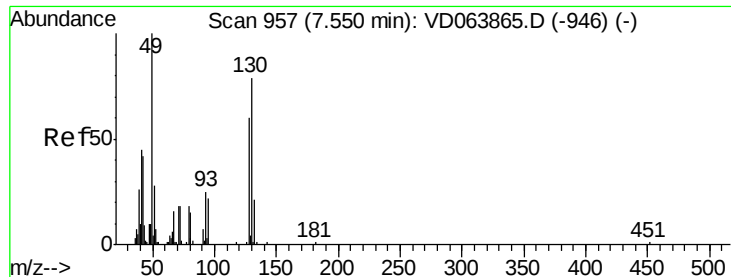
51 0.0 30.1 45.1#

86 13.6 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: 1.925 ug/l

RT: 7.54 min Scan# 955

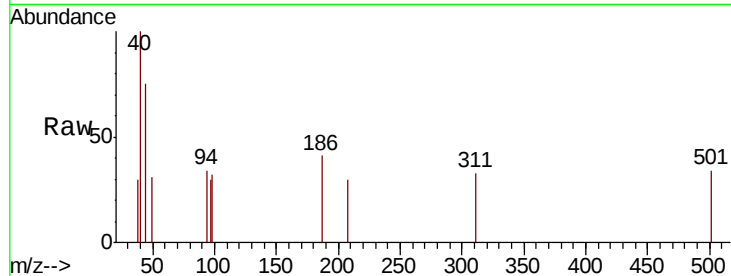
Delta R.T. -0.01 min

Lab File: VD064028.D

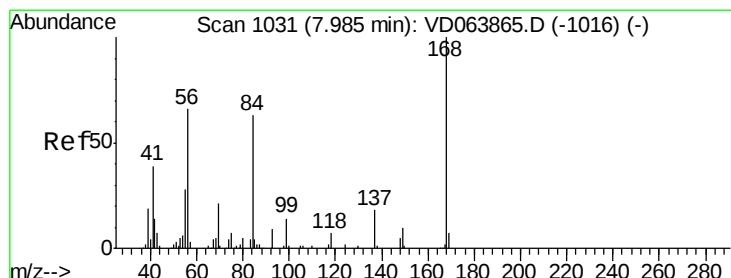
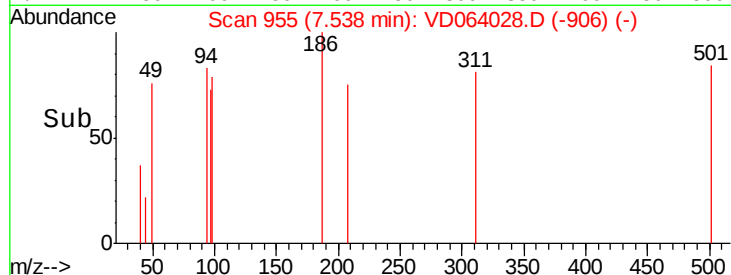
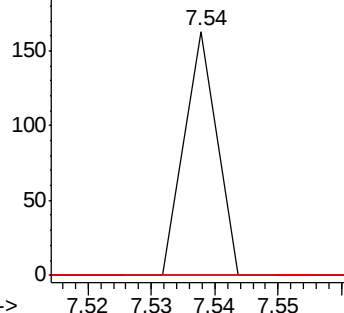
Acq: 23 Oct 2019 18:40

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 49 Resp: 57
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



#31

Cyclohexane

Concen: Below Cal

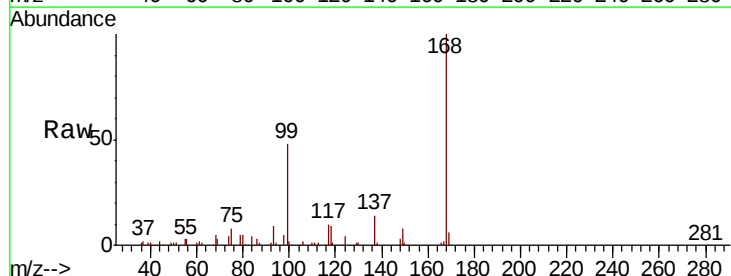
RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

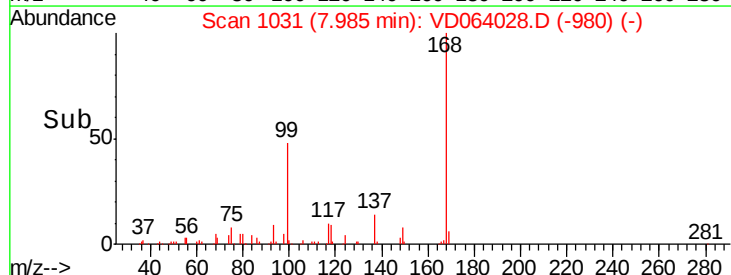
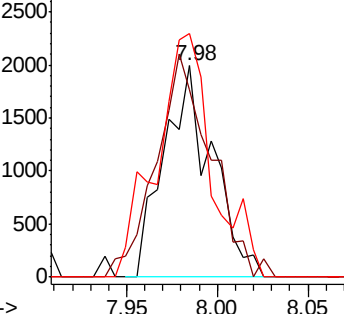
Lab File: VD064028.D

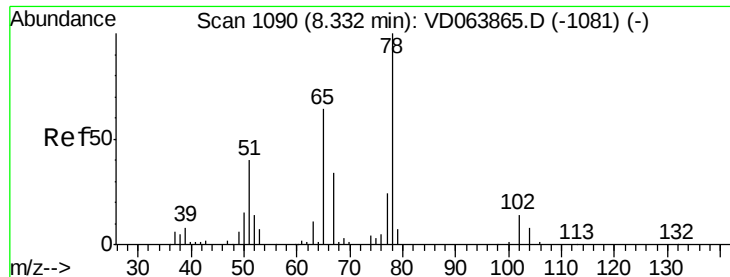
Acq: 23 Oct 2019 18:40

Tgt Ion: 56 Resp: 3697
Ion Ratio Lower Upper
56 100
69 88.9 25.0 37.4#
84 115.2 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: 64.226 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VD064028.D

Acq: 23 Oct 2019 18:40

Instrument :

MSVOA_D

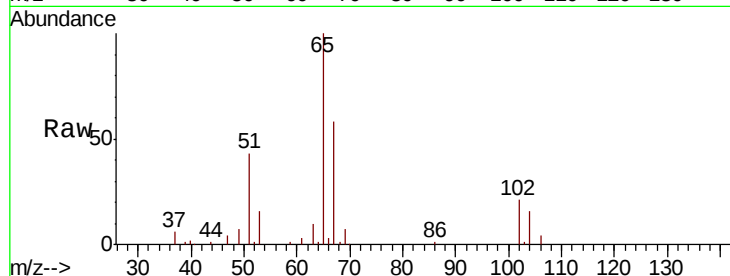
ClientSampleId :

Tot Ion: 65 Resp: 84518

Ion Ratio Lower Upper

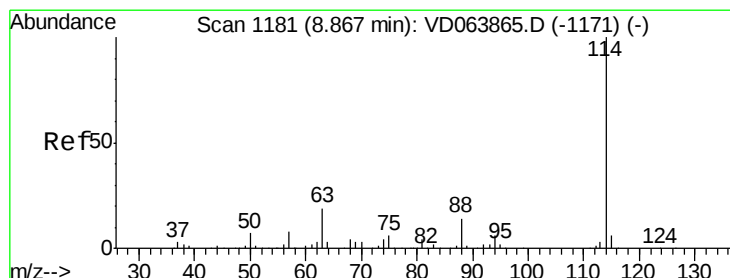
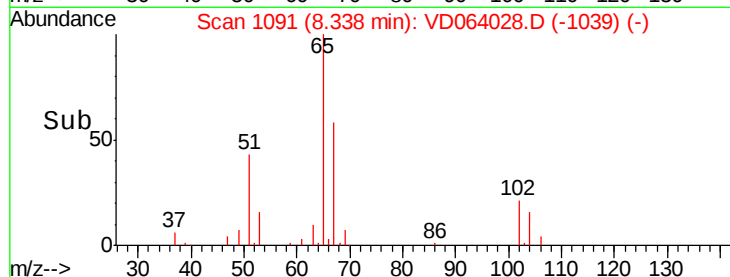
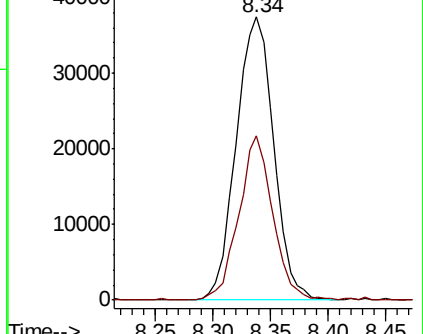
65 100

67 52.7 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: VD064028.D

Acq: 23 Oct 2019 18:40

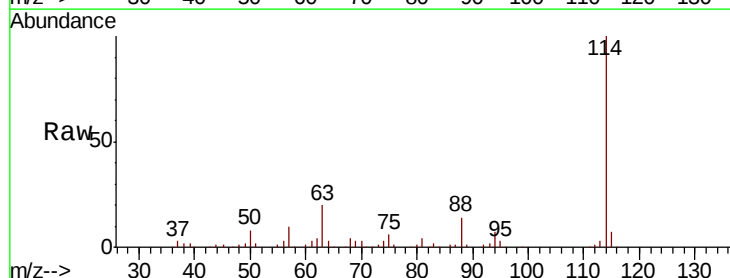
Tgt Ion: 114 Resp: 266180

Ion Ratio Lower Upper

114 100

63 20.0 0.0 38.4

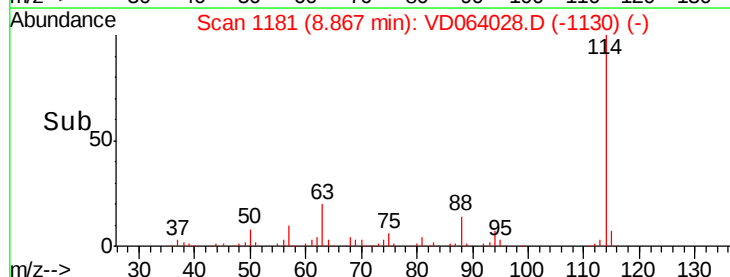
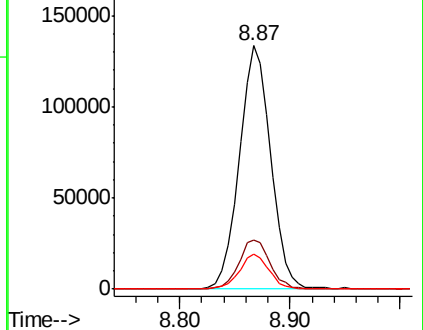
88 14.4 0.0 27.4

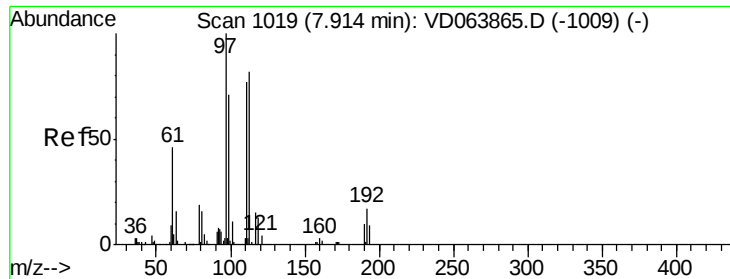


Abundance Ion 113.90 (113.60 to 114.60): VDC

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

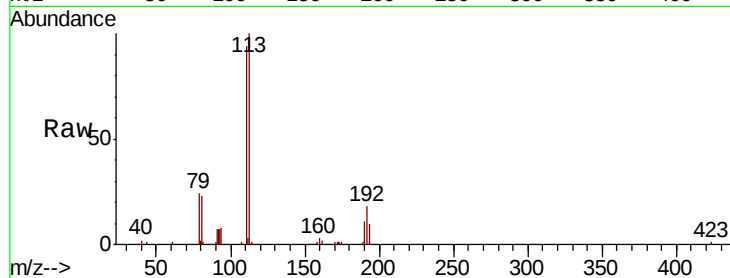




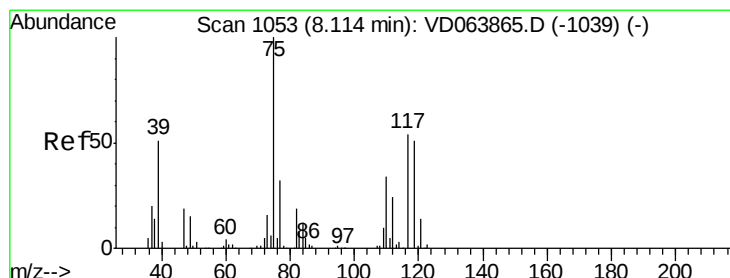
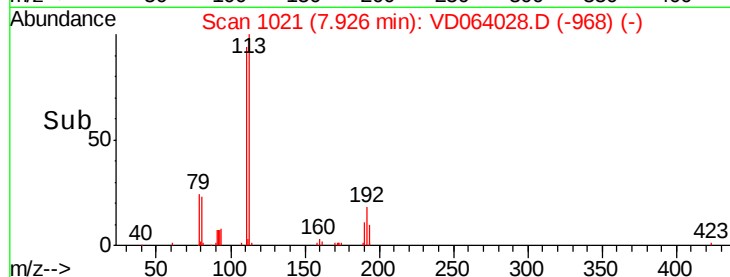
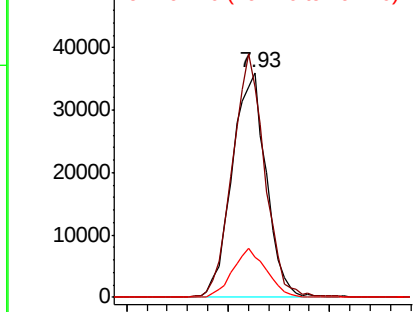
#35
 Dibromofluoromethane
 Concen: 51.622 ug/l
 RT: 7.93 min Scan# 1021
 Delta R.T. 0.01 min
 Lab File: VD064028.D
 Acq: 23 Oct 2019 18:40

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion:113 Resp: 83974
 Ion Ratio Lower Upper
 113 100
 111 102.6 82.6 123.8
 192 21.3 17.1 25.7

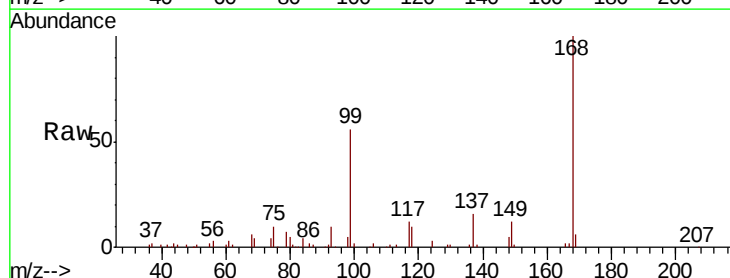


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

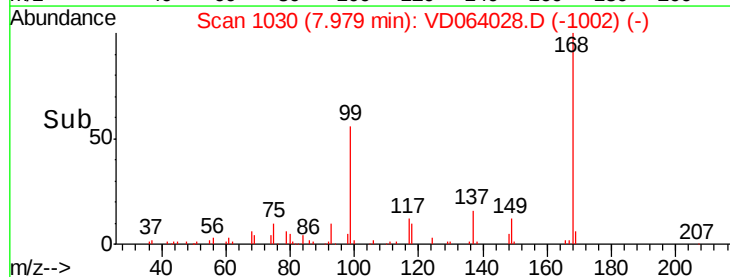
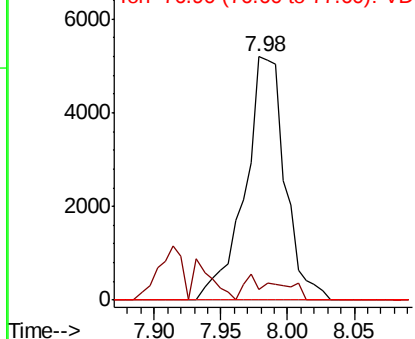


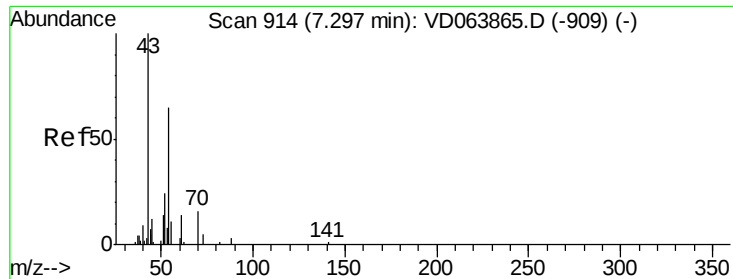
#36
 1,1-Dichloropropene
 Concen: 4.426 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD064028.D
 Acq: 23 Oct 2019 18:40

Tgt Ion: 75 Resp: 10771
 Ion Ratio Lower Upper
 75 100
 110 6.0 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

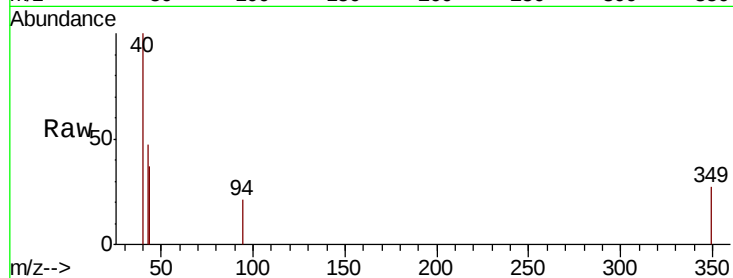




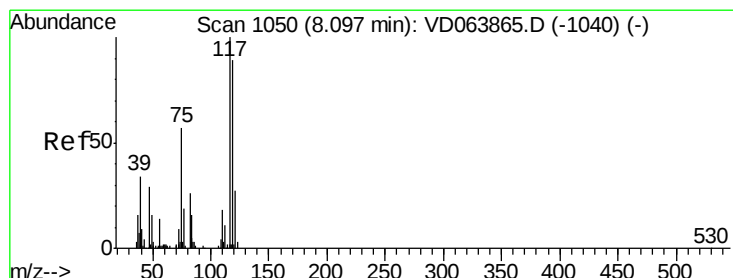
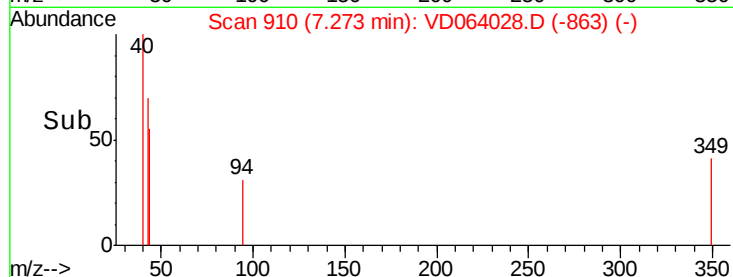
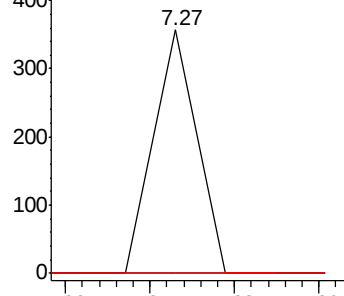
#37
Ethyl Acetate
Concen: Below Cal
RT: 7.27 min Scan# 910
Delta R.T. -0.02 min
Lab File: VD064028.D
Acq: 23 Oct 2019 18:40

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 126
Ion Ratio Lower Upper
43 100
61 0.0 11.5 17.3#
70 0.0 8.2 12.4#

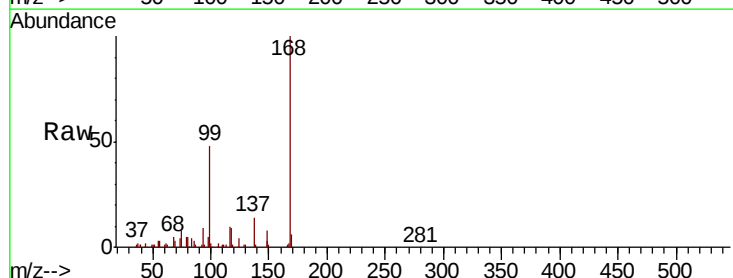


Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 70.00 (69.70 to 70.70): VDC

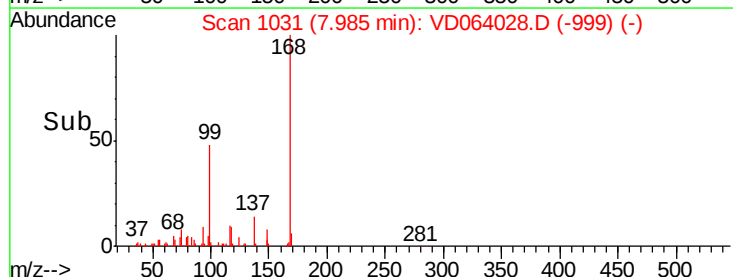
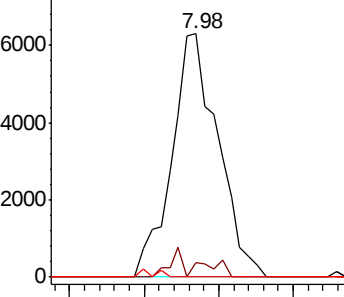


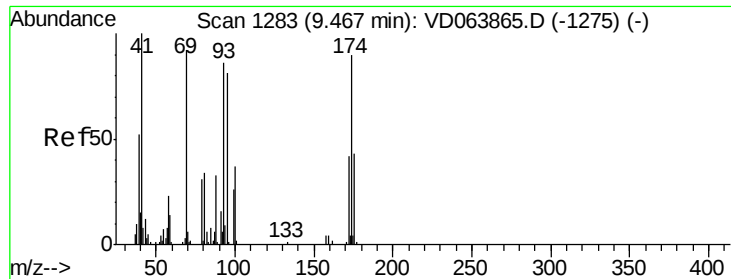
#38
Carbon Tetrachloride
Concen: 5.479 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.11 min
Lab File: VD064028.D
Acq: 23 Oct 2019 18:40

Tgt Ion: 117 Resp: 13474
Ion Ratio Lower Upper
117 100
119 5.9 70.8 106.2#
121 0.0 21.4 32.0#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

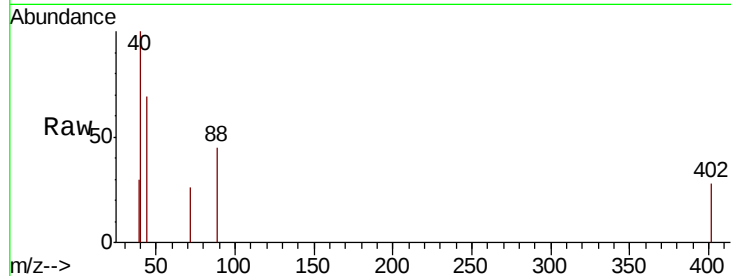




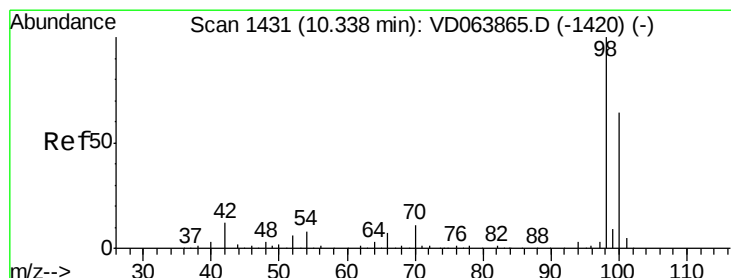
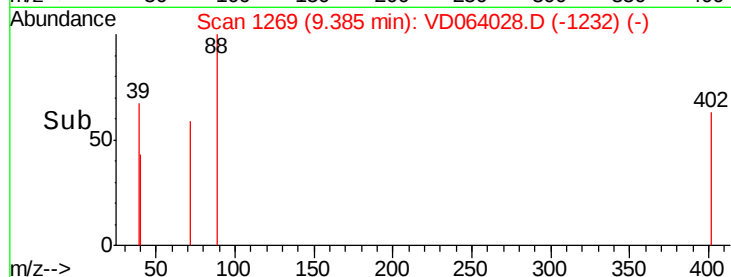
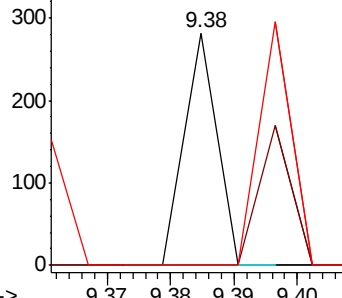
#49
 1,4-Dioxane
 Concen: 7.535 ug/l
 RT: 9.38 min Scan# 1269
 Delta R.T. -0.08 min
 Lab File: VD064028.D
 Acq: 23 Oct 2019 18:40

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 88 Resp: 100
 Ion Ratio Lower Upper
 88 100
 43 60.0 27.6 41.4#
 58 104.0 54.1 81.1#

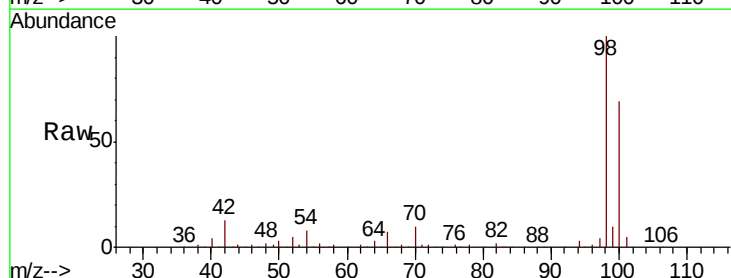


Abundance Ion 88.00 (87.70 to 88.70): VDC
 Ion 43.00 (42.70 to 43.70): VDC
 Ion 58.00 (57.70 to 58.70): VDC

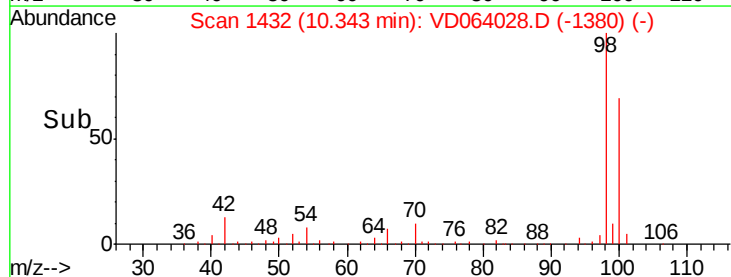
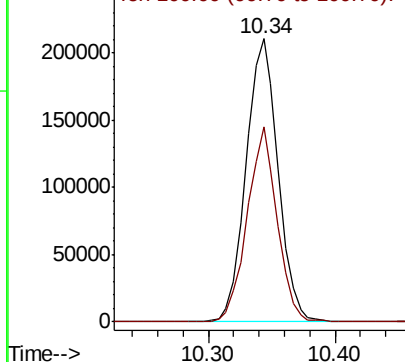


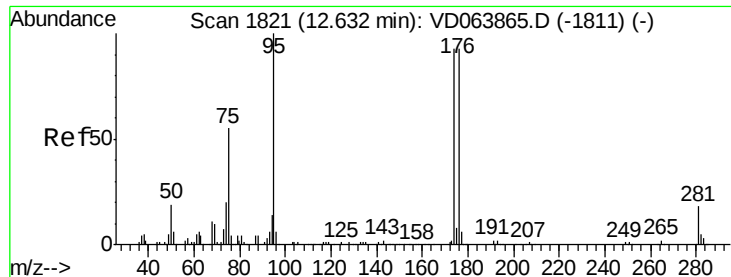
#50
 Toluene-d8
 Concen: 56.008 ug/l
 RT: 10.34 min Scan# 1432
 Delta R.T. 0.01 min
 Lab File: VD064028.D
 Acq: 23 Oct 2019 18:40

Tgt Ion: 98 Resp: 369794
 Ion Ratio Lower Upper
 98 100
 100 64.5 52.1 78.1



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

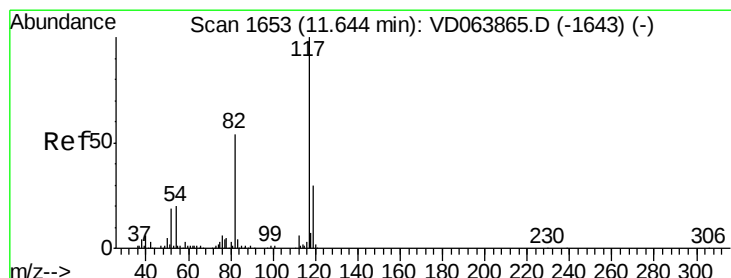
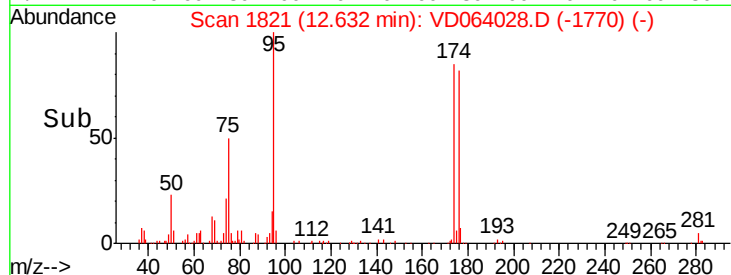
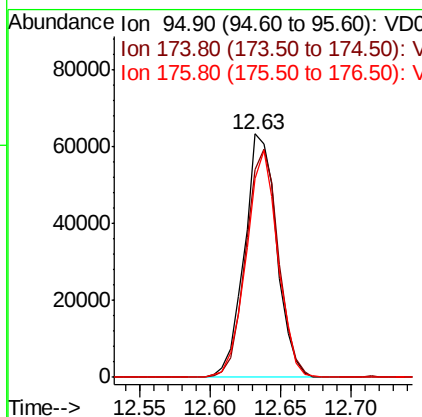
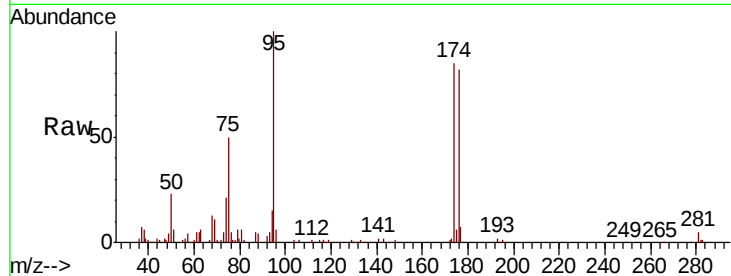




#62
4-Bromofluorobenzene
Concen: 44.353 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. -0.00 min
Lab File: VD064028.D
Acq: 23 Oct 2019 18:40

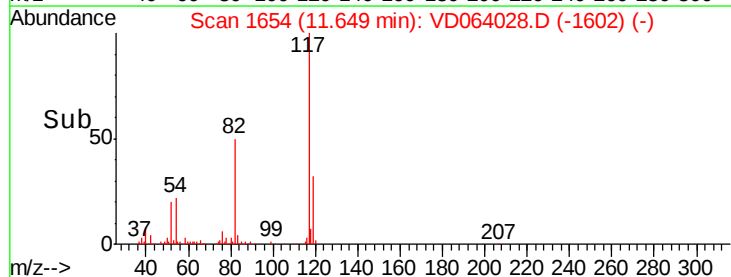
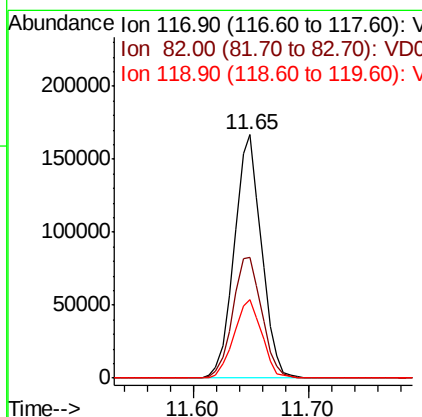
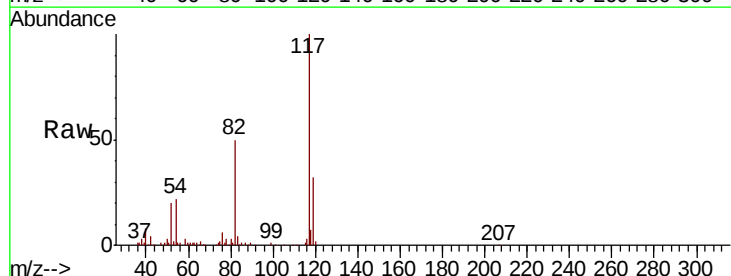
Instrument :
MSVOA_D
ClientSampleId :

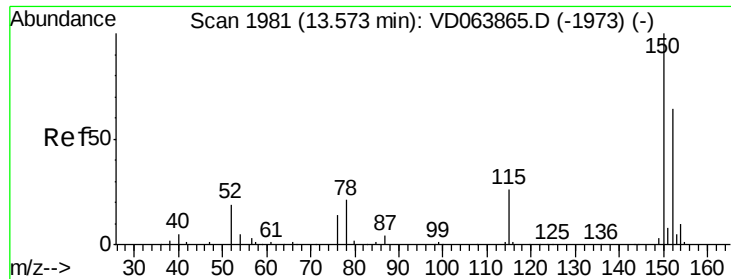
Tot Ion: 95 Resp: 101763
Ion Ratio Lower Upper
95 100
174 94.5 0.0 186.4
176 91.0 0.0 184.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.01 min
Lab File: VD064028.D
Acq: 23 Oct 2019 18:40

Tgt Ion: 117 Resp: 271625
Ion Ratio Lower Upper
117 100
82 49.8 42.8 64.2
119 32.0 24.4 36.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.01 min

Lab File: VD064028.D

Acq: 23 Oct 2019 18:40

Instrument :

MSVOA_D

ClientSampleId :

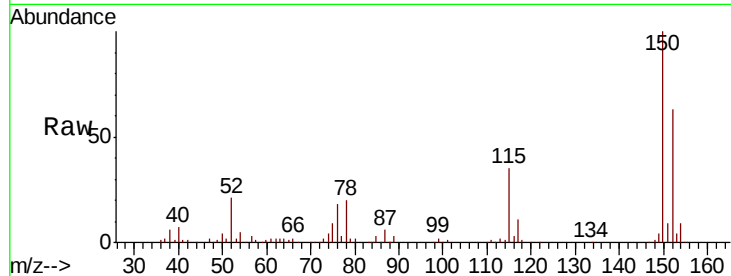
Tot Ion:152 Resp: 114493

Ion Ratio Lower Upper

152 100

115 56.1 25.9 77.7

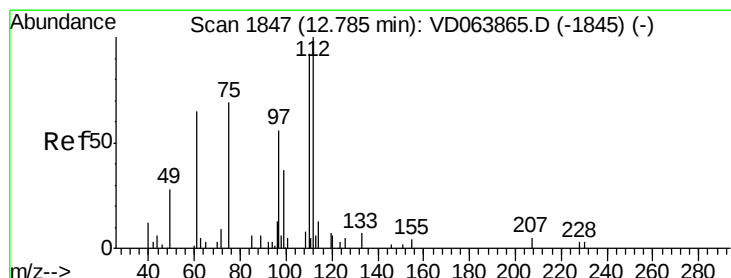
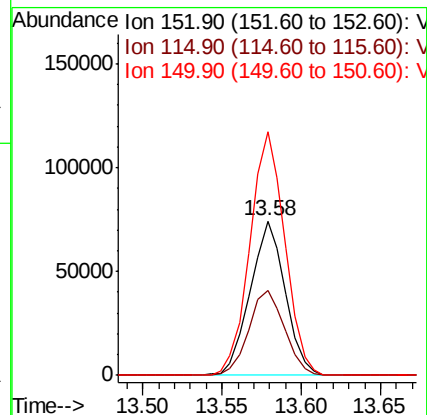
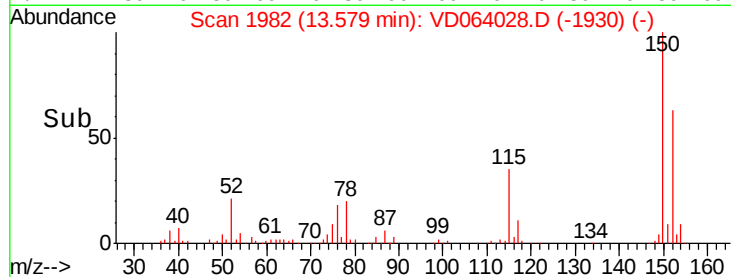
150 156.7 0.0 344.2



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: 75.471 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064028.D

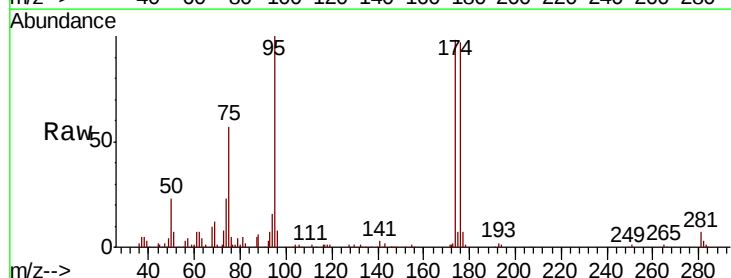
Acq: 23 Oct 2019 18:40

Tgt Ion: 75 Resp: 57874

Ion Ratio Lower Upper

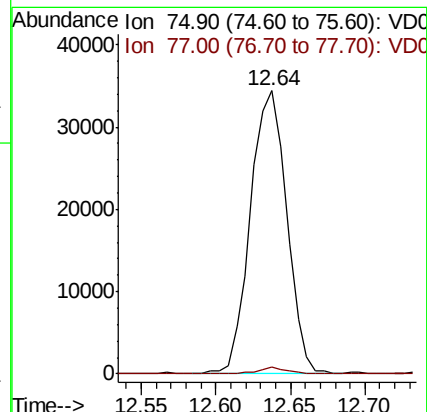
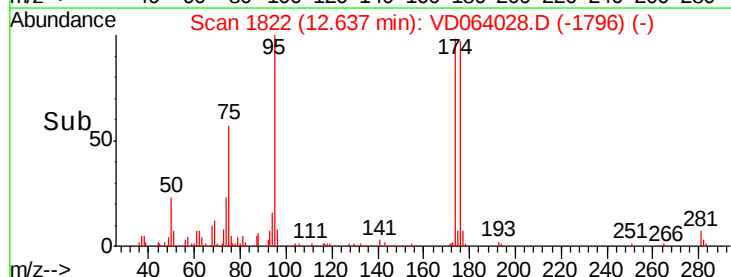
75 100

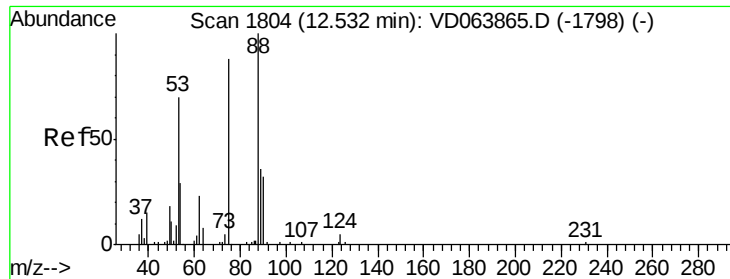
77 1.6 0.0 0.0#



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: 133.553 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064028.D

Acq: 23 Oct 2019 18:40

Instrument :

MSVOA_D

ClientSampleId :

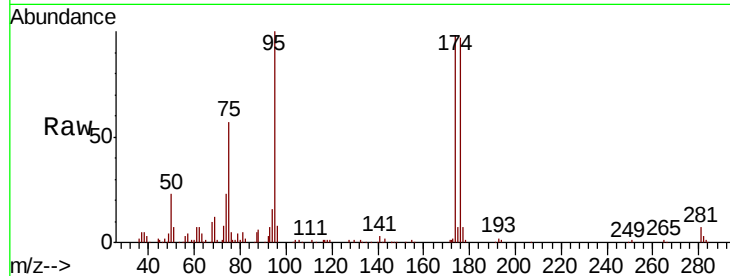
Tot Ion: 75 Resp: 57874

Ion Ratio Lower Upper

75 100

53 0.1 75.0 112.6#

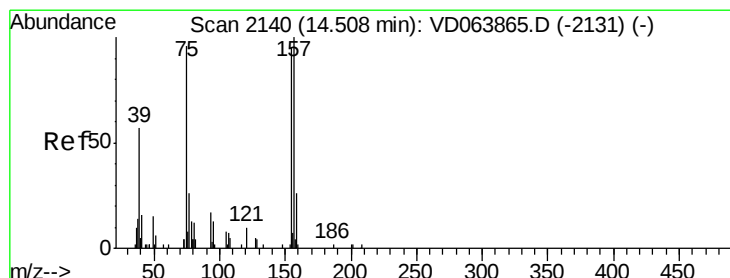
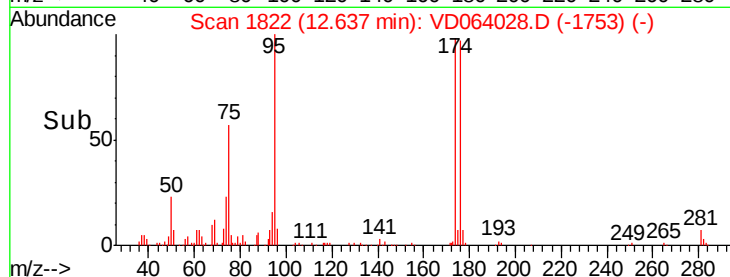
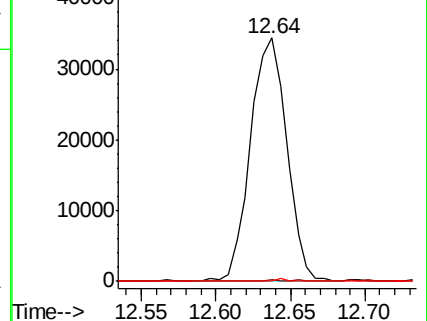
89 0.2 38.2 57.4#



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: 14.50 min Scan# 2138

Delta R.T. -0.01 min

Lab File: VD064028.D

Acq: 23 Oct 2019 18:40

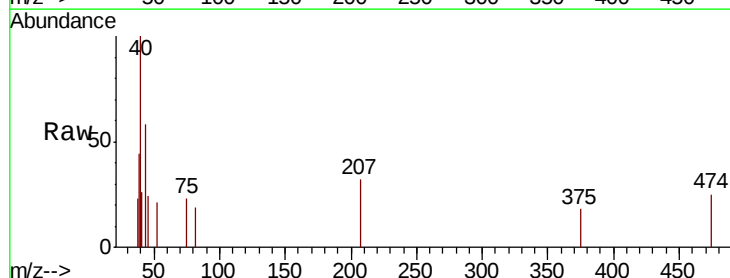
Tgt Ion: 75 Resp: 132

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

