

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD013020\
 Data File : VD065010.D
 Acq On : 30 Jan 2020 13:50
 Operator : VA/SY
 Sample : L1318-05
 Misc : 5.61G/5.00ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RAINEY-PARK-BH-03-B

Quant Time: Jan 30 14:17:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012320S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 23 13:45:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	14683	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	23240	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	24654	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	10755	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	11007	78.15	ug/l	0.00
Spiked Amount 50.000			Recovery	=	156.30%	
35) Dibromofluoromethane	7.92	113	9105	62.34	ug/l	0.00
Spiked Amount 50.000			Recovery	=	124.68%	
50) Toluene-d8	10.34	98	26451	46.93	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.86%	
62) 4-Bromofluorobenzene	12.64	95	8759	50.78	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.56%	

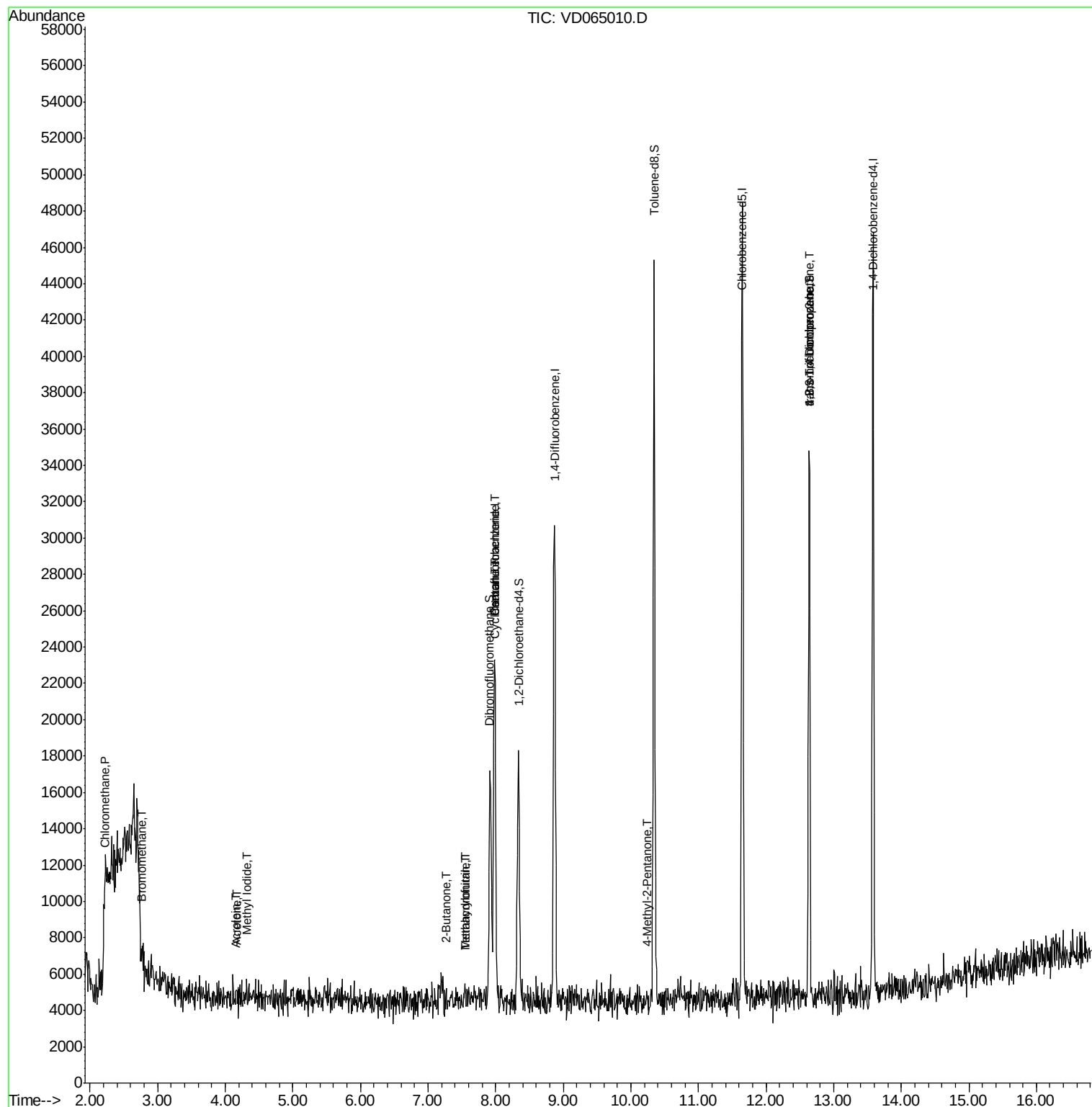
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.21	50	498	3.072	ug/l #	43
5) Bromomethane	2.77	94	596	4.758	ug/l #	55
10) Methyl Iodide	4.31	142	594	4.183	ug/l #	50
13) Acrolein	4.16	56	72	7.379	ug/l #	12
16) Acetone	4.16	43	258	20.019	ug/l #	45
20) Methylene Chloride	4.96	84	146	Below Cal	#	58
25) 2-Butanone	7.28	43	64	1.682	ug/l #	49
29) Tetrahydrofuran	7.56	42	66	2.811	ug/l #	34
31) Cyclohexane	8.00	56	353	1.439	ug/l #	62
38) Carbon Tetrachloride	7.98	117	1409	5.949	ug/l #	14
41) Methacrylonitrile	7.56	41	63	1.263	ug/l #	24
51) 4-Methyl-2-Pentanone	10.24	43	114	1.296	ug/l #	37
76) 1,2,3-Trichloropropane	12.64	75	4660	52.203	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	4660	111.465	ug/l #	9

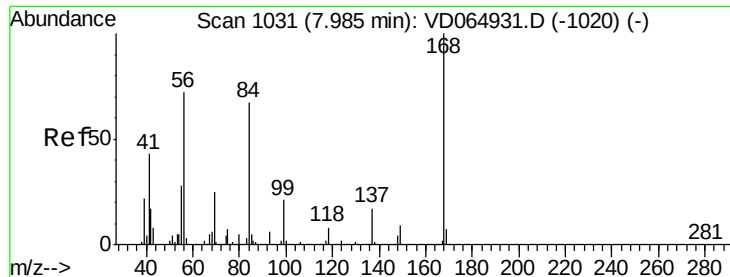
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD065010.D

Acq: 30 Jan 2020 13:50

Instrument :

MSVOA_D

ClientSampleId :

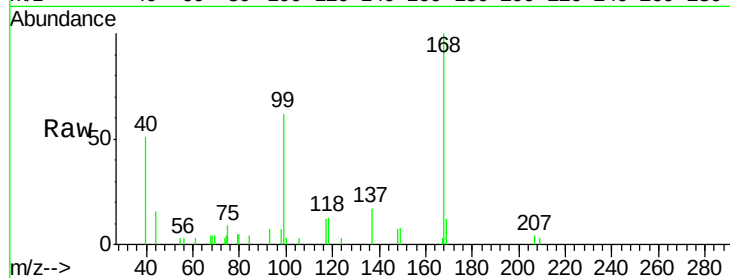
RAINEY-PARK-BH-03-B

Tot Ion:168 Resp: 14683

Ion Ratio Lower Upper

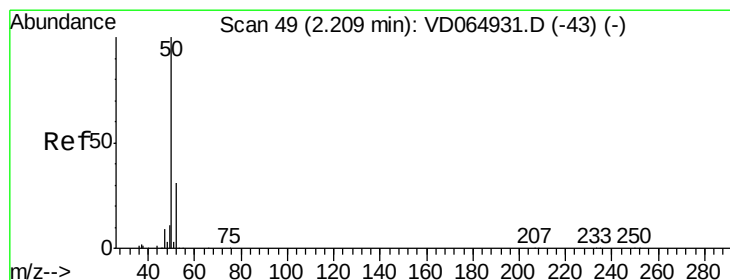
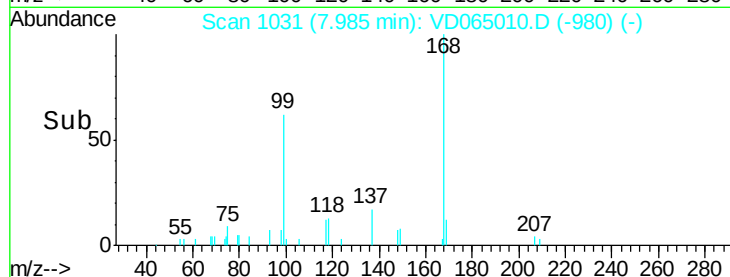
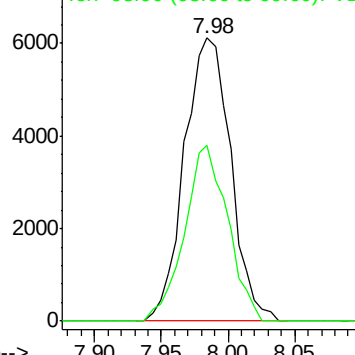
168 100

99 62.2 43.3 64.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: 3.072 ug/l

RT: 2.21 min Scan# 49

Delta R.T. -0.00 min

Lab File: VD065010.D

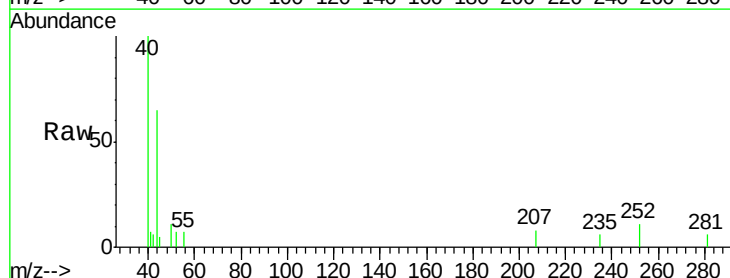
Acq: 30 Jan 2020 13:50

Tgt Ion: 50 Resp: 498

Ion Ratio Lower Upper

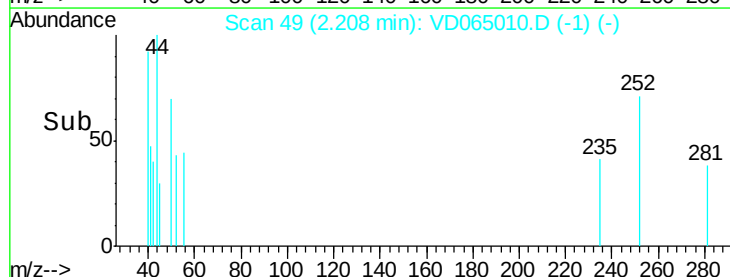
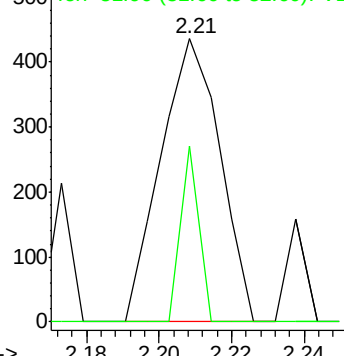
50 100

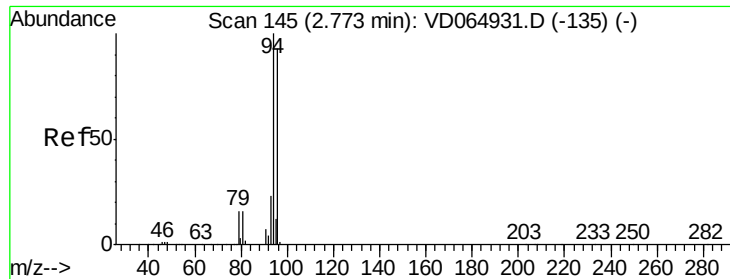
52 62.2 24.6 36.8#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 4.758 ug/l

RT: 2.77 min Scan# 145

Delta R.T. -0.00 min

Lab File: VD065010.D

Acq: 30 Jan 2020 13:50

Instrument :

MSVOA_D

ClientSampleId :

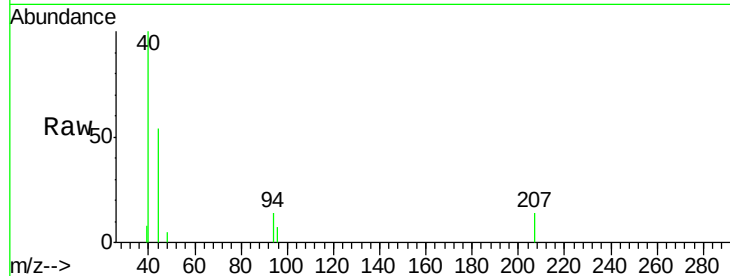
RAINEY-PARK-BH-03-B

Tot Ion: 94 Resp: 596

Ion Ratio Lower Upper

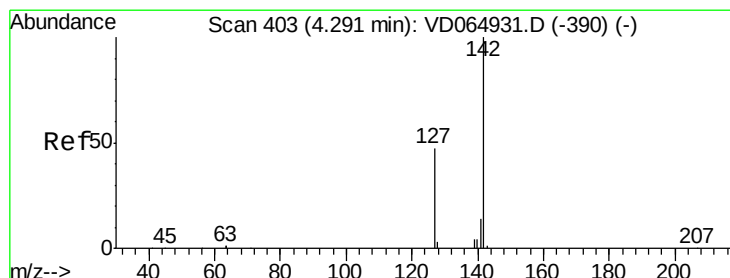
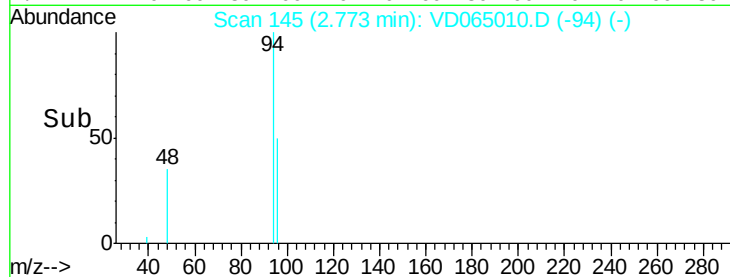
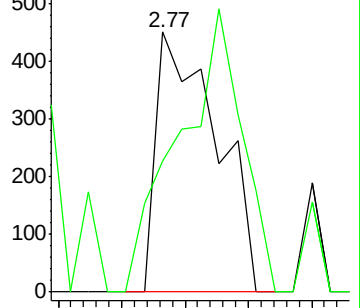
94 100

96 50.3 74.6 111.8#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#10

Methyl Iodide

Concen: 4.183 ug/l

RT: 4.31 min Scan# 407

Delta R.T. 0.02 min

Lab File: VD065010.D

Acq: 30 Jan 2020 13:50

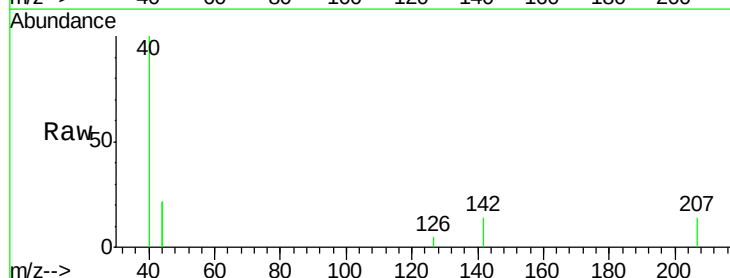
Tgt Ion: 142 Resp: 594

Ion Ratio Lower Upper

142 100

127 9.3 36.2 54.2#

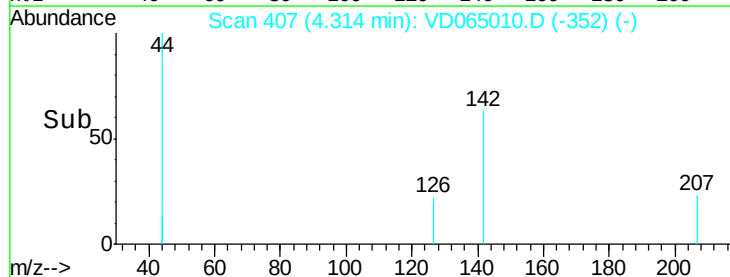
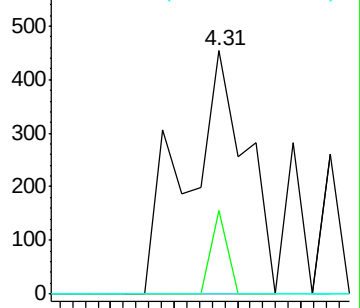
141 0.0 11.6 17.4#

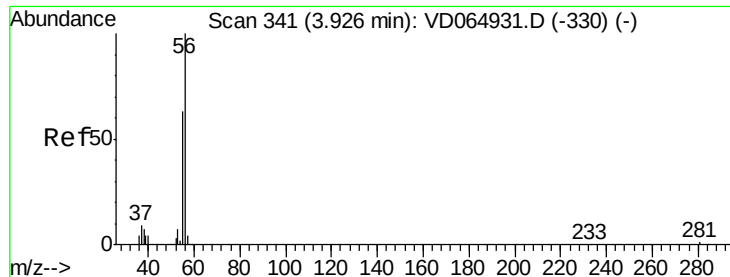


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#13

Acrolein

Concen: 7.379 ug/l

RT: 4.16 min Scan# 380

Delta R.T. 0.23 min

Lab File: VD065010.D

Acq: 30 Jan 2020 13:50

Instrument :

MSVOA_D

ClientSampleId :

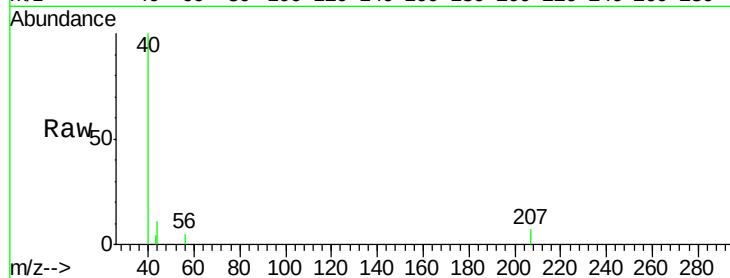
RAINEY-PARK-BH-03-B

Tot Ion: 56 Resp: 72

Ion Ratio Lower Upper

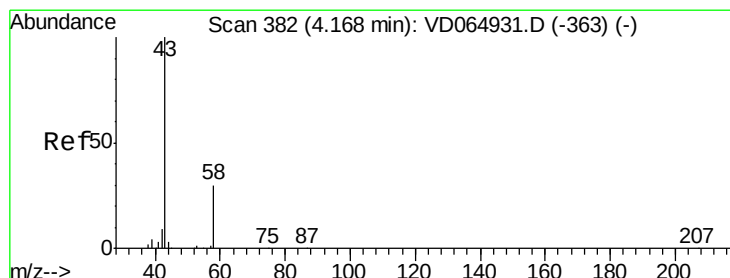
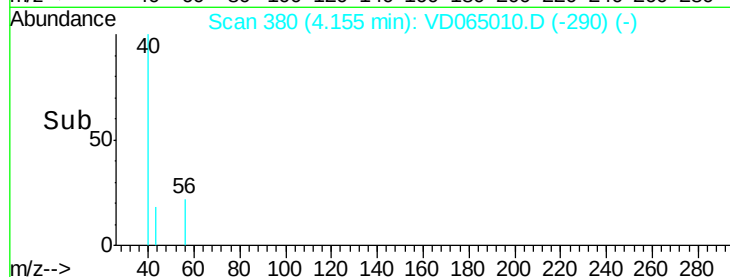
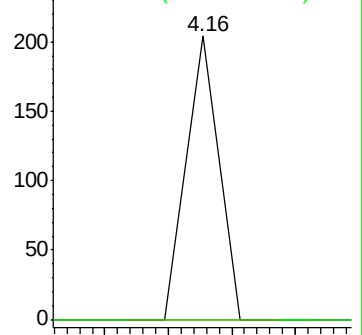
56 100

55 0.0 59.7 89.5#



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 20.019 ug/l

RT: 4.16 min Scan# 381

Delta R.T. -0.01 min

Lab File: VD065010.D

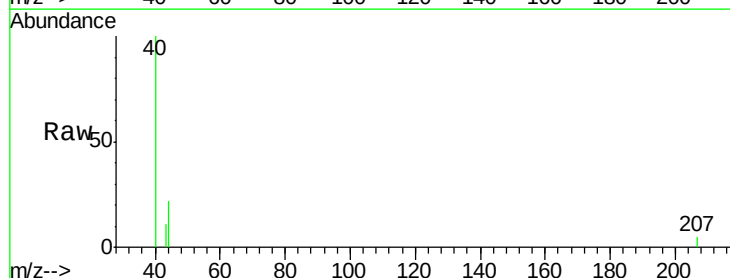
Acq: 30 Jan 2020 13:50

Tgt Ion: 43 Resp: 258

Ion Ratio Lower Upper

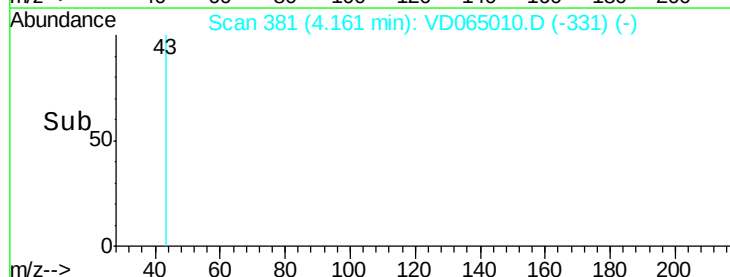
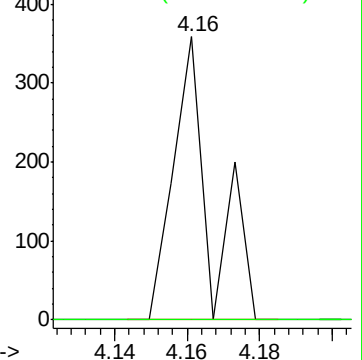
43 100

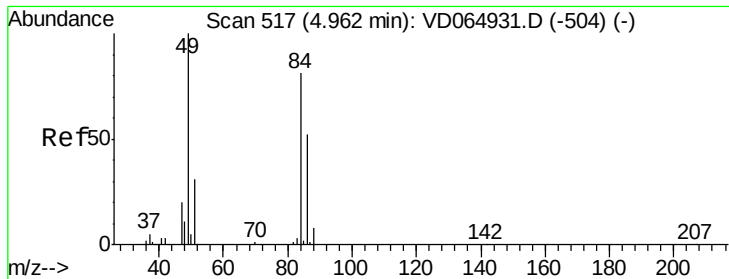
58 0.0 23.8 35.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

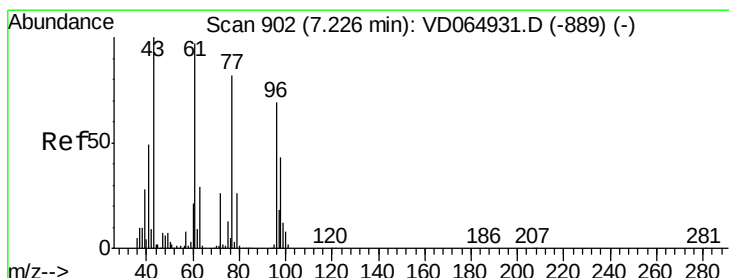
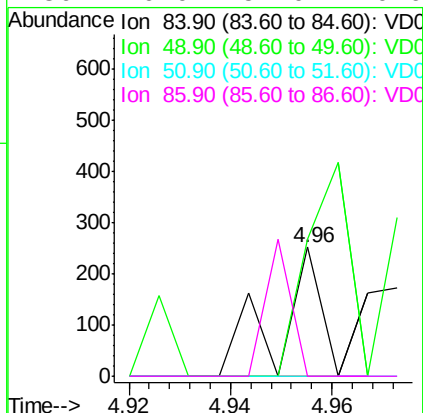
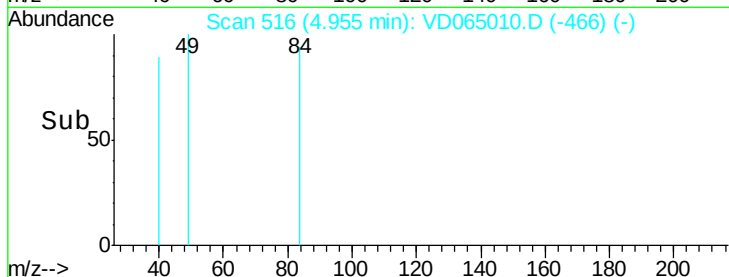
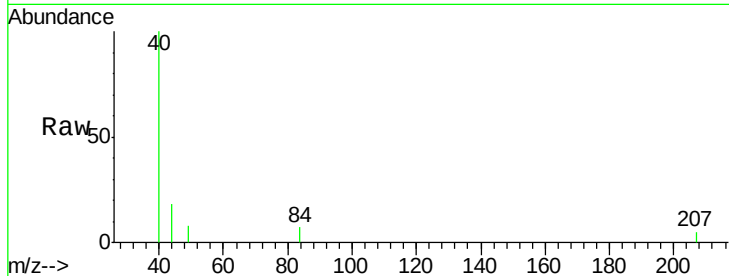




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.96 min Scan# 516
Delta R.T. -0.01 min
Lab File: VD065010.D
Acq: 30 Jan 2020 13:50

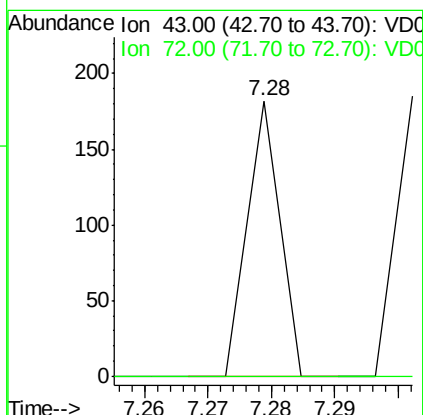
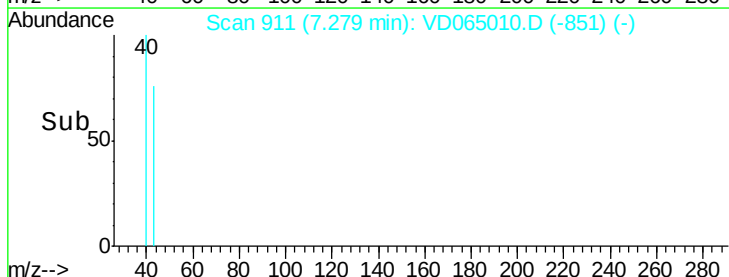
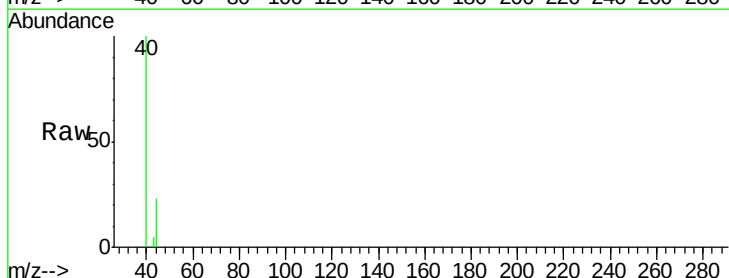
Instrument :
MSVOA_D
ClientSampleId :
RAINEY-PARK-BH-03-B

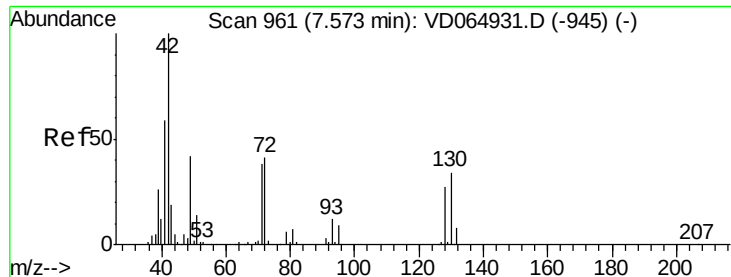
Tot Ion: 84 Resp: 146
Ion Ratio Lower Upper
84 100
49 106.4 98.4 147.6
51 0.0 30.8 46.2#
86 0.0 51.0 76.6#



#25
2-Butanone
Concen: 1.682 ug/l
RT: 7.28 min Scan# 911
Delta R.T. 0.05 min
Lab File: VD065010.D
Acq: 30 Jan 2020 13:50

Tgt Ion: 43 Resp: 64
Ion Ratio Lower Upper
43 100
72 0.0 20.6 31.0#

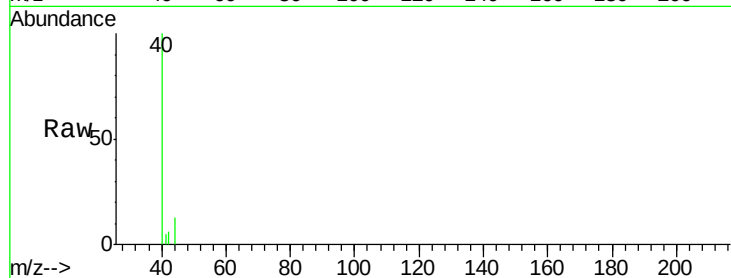




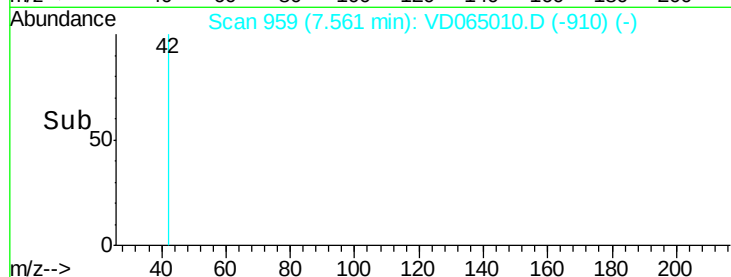
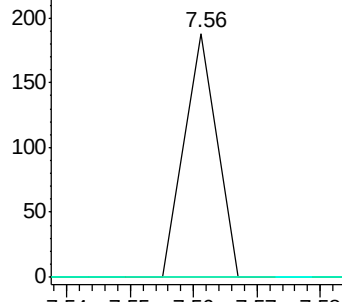
#29
Tetrahydrofuran
Concen: 2.811 ug/l
RT: 7.56 min Scan# 959
Delta R.T. -0.01 min
Lab File: VD065010.D
Acq: 30 Jan 2020 13:50

Instrument :
MSVOA_D
ClientSampleId :
RAINEY-PARK-BH-03-B

Tot Ion: 42 Resp: 66
Ion Ratio Lower Upper
42 100
72 0.0 34.0 51.0#
71 0.0 31.5 47.3#

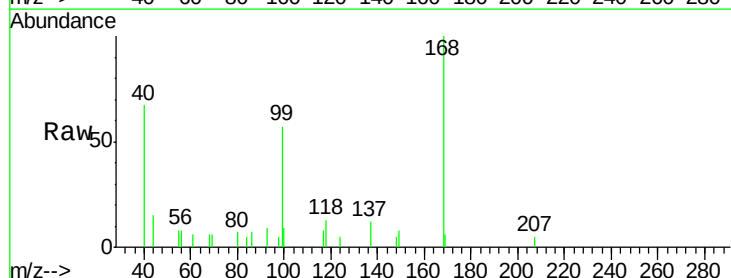
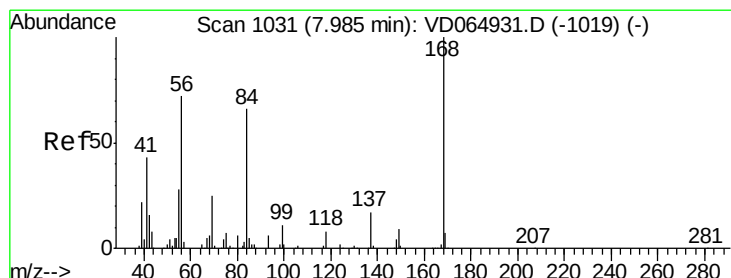


Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC

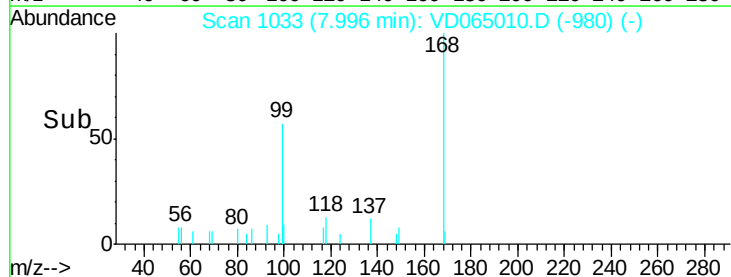
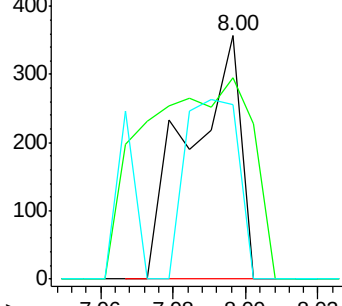


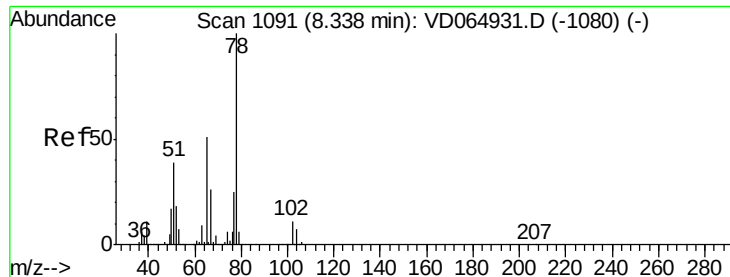
#31
Cyclohexane
Concen: 1.439 ug/l
RT: 8.00 min Scan# 1033
Delta R.T. 0.01 min
Lab File: VD065010.D
Acq: 30 Jan 2020 13:50

Tgt Ion: 56 Resp: 353
Ion Ratio Lower Upper
56 100
69 82.9 27.9 41.9#
84 71.7 72.8 109.2#



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: 78.151 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. -0.00 min

Lab File: VD065010.D

Acq: 30 Jan 2020 13:50

Instrument :

MSVOA_D

ClientSampleId :

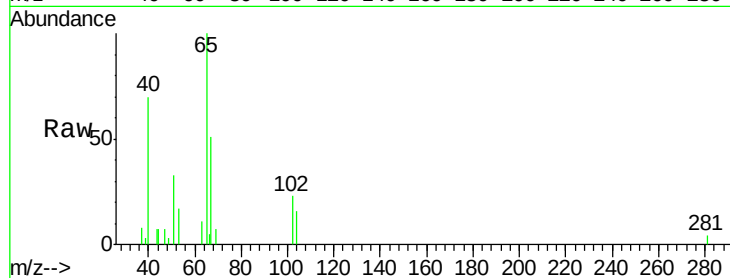
RAINEY-PARK-BH-03-B

Tot Ion: 65 Resp: 11007

Ion Ratio Lower Upper

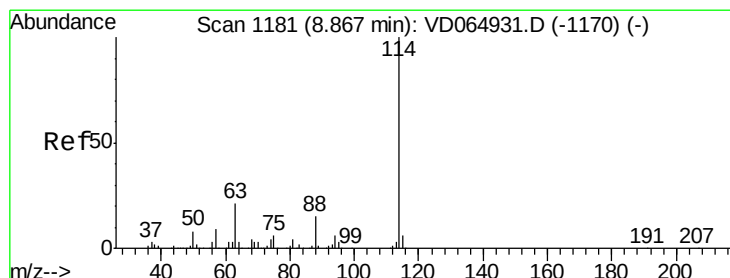
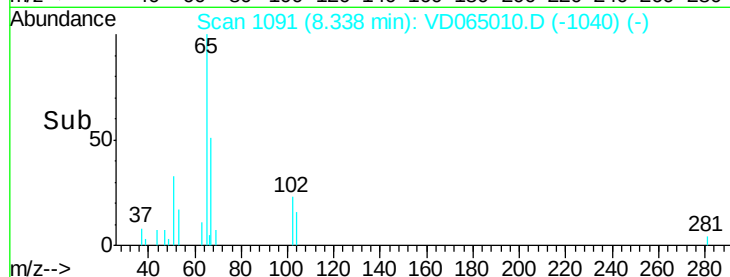
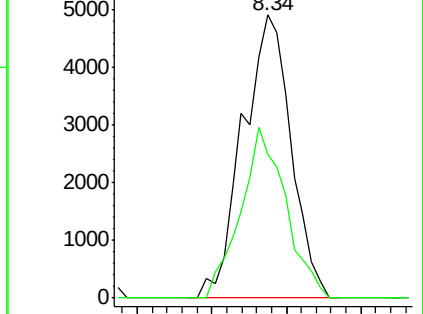
65 100

67 56.0 0.0 103.6



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: VD065010.D

Acq: 30 Jan 2020 13:50

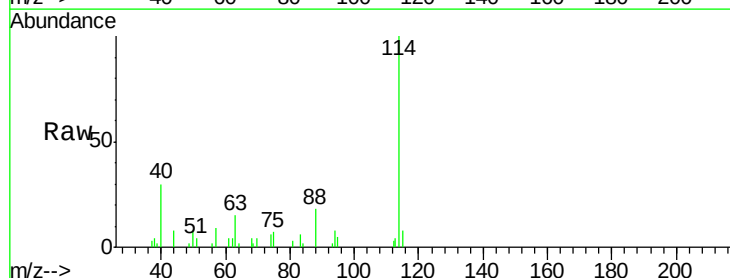
Tgt Ion: 114 Resp: 23240

Ion Ratio Lower Upper

114 100

63 14.9 0.0 42.0

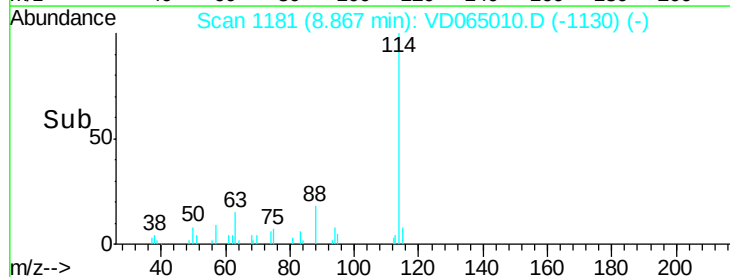
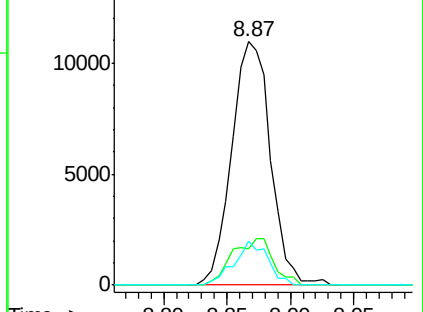
88 18.1 0.0 29.4

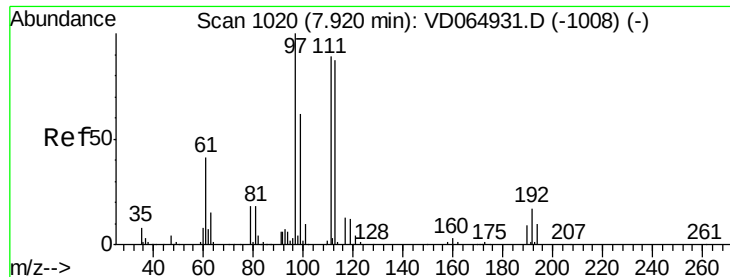


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 62.345 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. -0.00 min

Lab File: VD065010.D

Acq: 30 Jan 2020 13:50

Instrument :

MSVOA_D

ClientSampleId :

RAINEY-PARK-BH-03-B

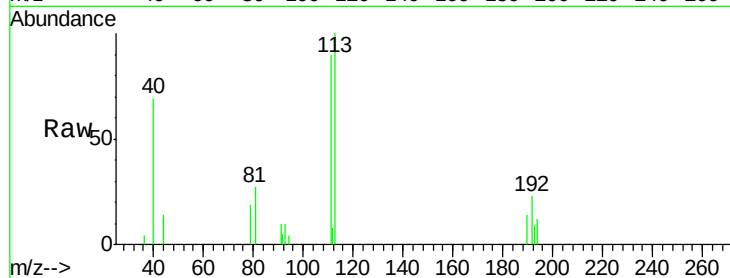
Tot Ion:113 Resp: 9105

Ion Ratio Lower Upper

113 100

111 114.9 82.4 123.6

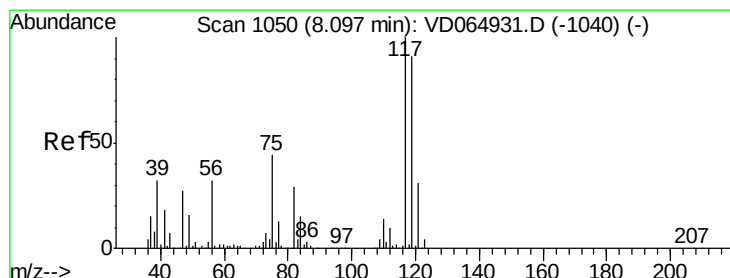
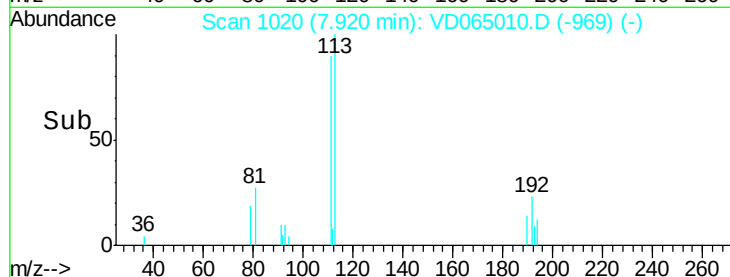
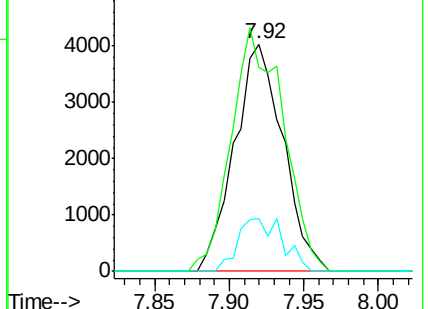
192 21.4 16.9 25.3



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



#38

Carbon Tetrachloride

Concen: 5.949 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD065010.D

Acq: 30 Jan 2020 13:50

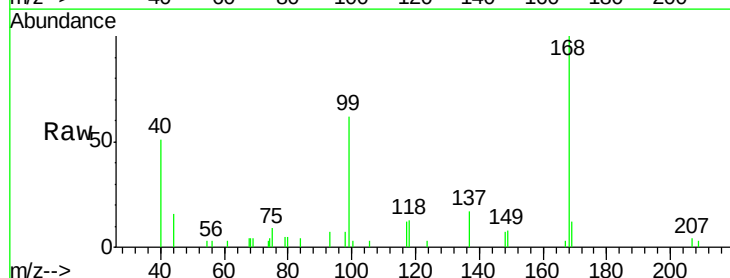
Tgt Ion:117 Resp: 1409

Ion Ratio Lower Upper

117 100

119 0.0 73.2 109.8#

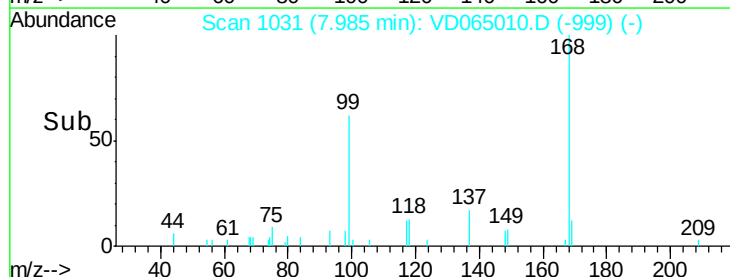
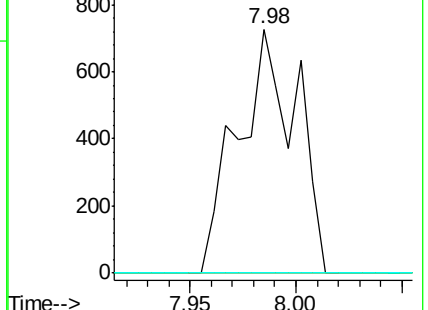
121 0.0 24.4 36.6#

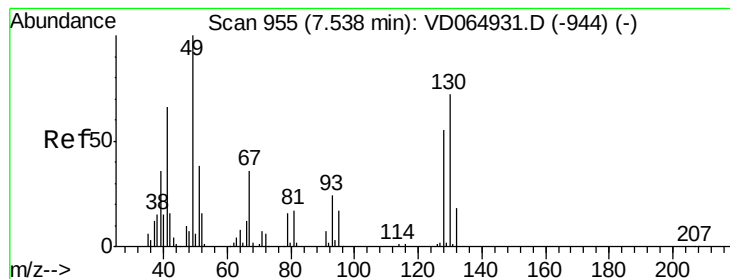


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#41

Methacrylonitrile

Concen: 1.263 ug/l

RT: 7.56 min Scan# 959

Delta R.T. 0.02 min

Lab File: VD065010.D

Acq: 30 Jan 2020 13:50

Instrument :

MSVOA_D

ClientSampleId :

RAINEY-PARK-BH-03-B

Tot Ion: 41 Resp: 63

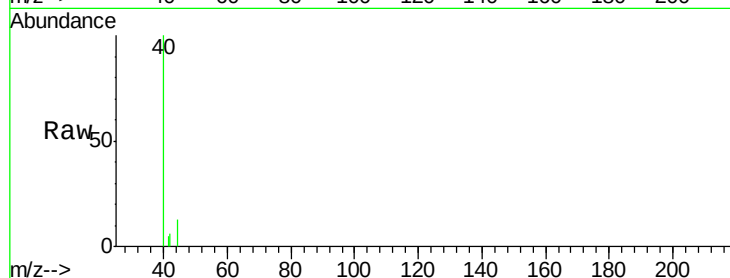
Ion Ratio Lower Upper

41 100

39 0.0 49.3 73.9#

67 0.0 51.0 76.6#

52 0.0 22.3 33.5#

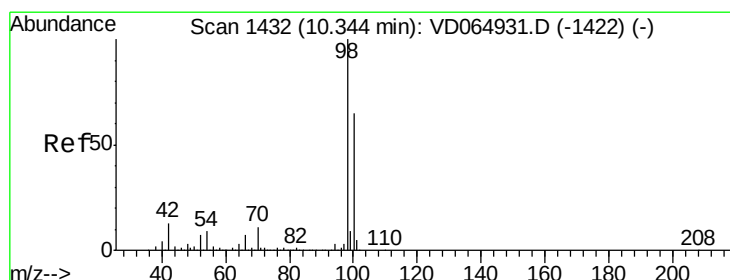
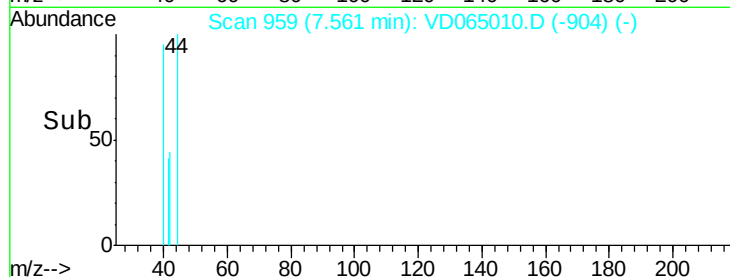
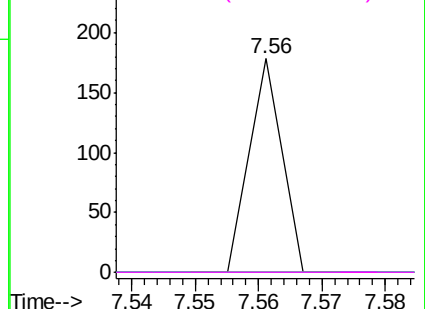


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#50

Toluene-d8

Concen: 46.926 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VD065010.D

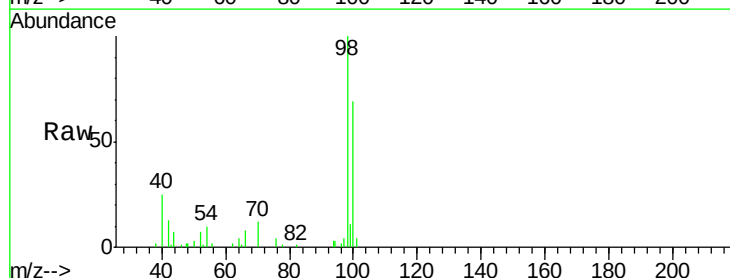
Acq: 30 Jan 2020 13:50

Tgt Ion: 98 Resp: 26451

Ion Ratio Lower Upper

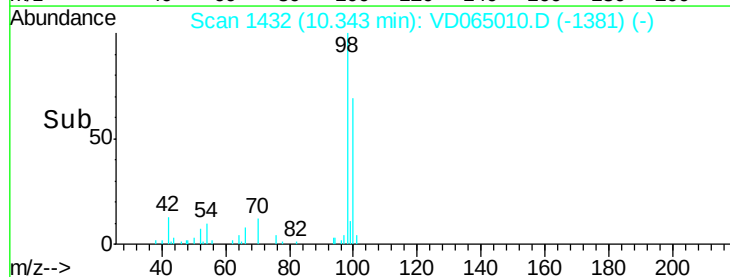
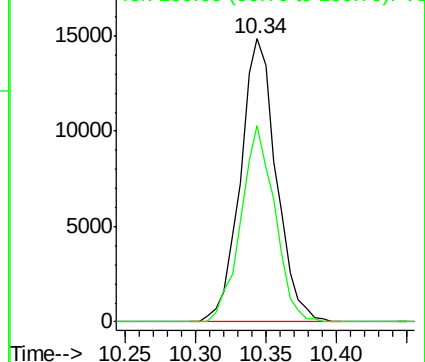
98 100

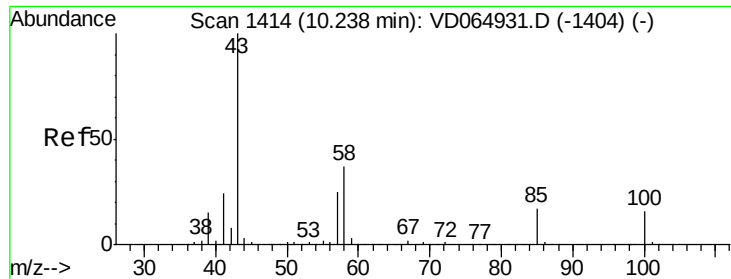
100 65.7 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC

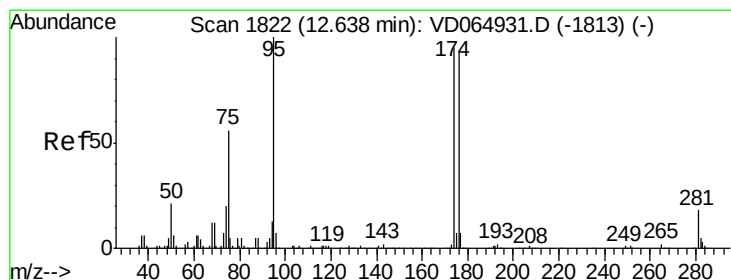
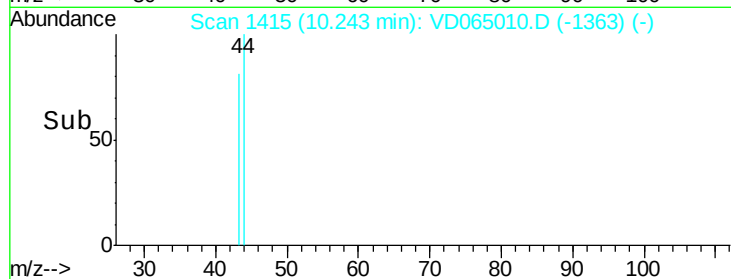
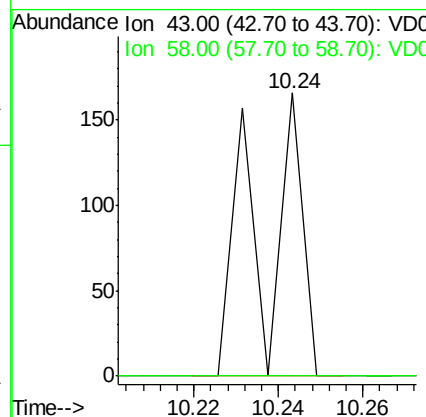
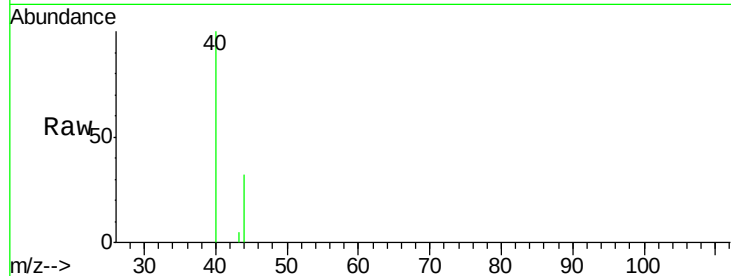




#51
4-Methyl-2-Pentanone
Concen: 1.296 ug/l
RT: 10.24 min Scan# 1415
Delta R.T. 0.01 min
Lab File: VD065010.D
Acq: 30 Jan 2020 13:50

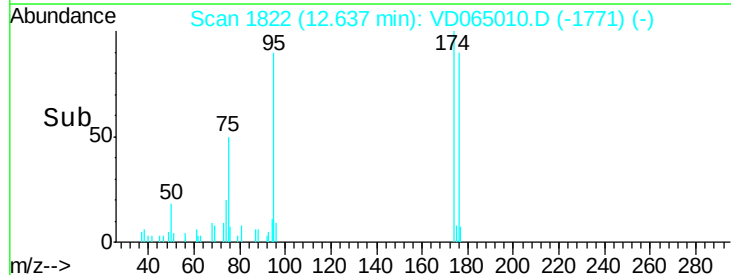
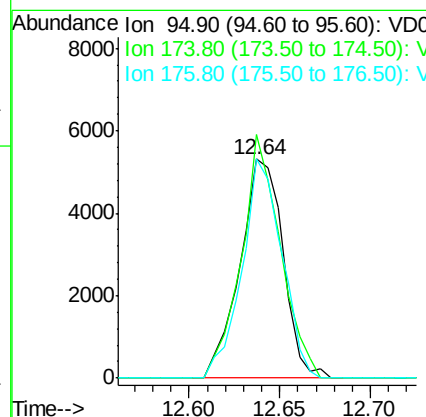
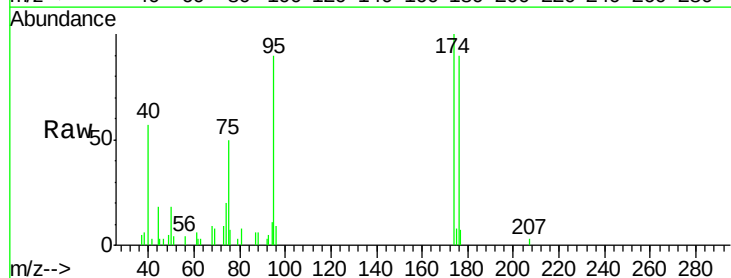
Instrument :
MSVOA_D
ClientSampleId :
RAINEY-PARK-BH-03-B

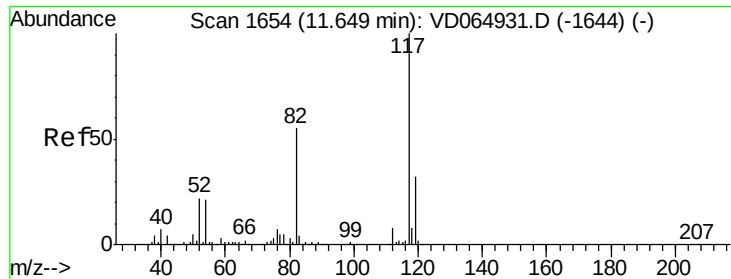
Tot Ion: 43 Resp: 114
Ion Ratio Lower Upper
43 100
58 0.0 30.4 45.6#



#62
4-Bromofluorobenzene
Concen: 50.778 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VD065010.D
Acq: 30 Jan 2020 13:50

Tgt Ion: 95 Resp: 8759
Ion Ratio Lower Upper
95 100
174 101.0 0.0 186.8
176 92.9 0.0 183.4

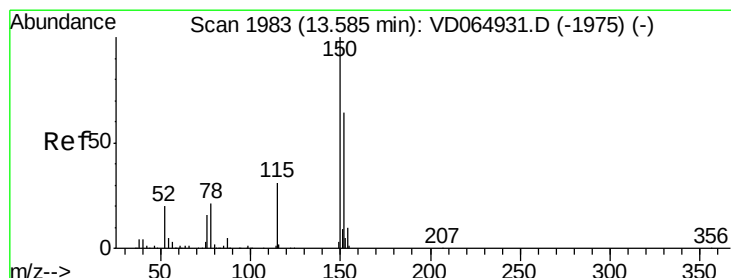
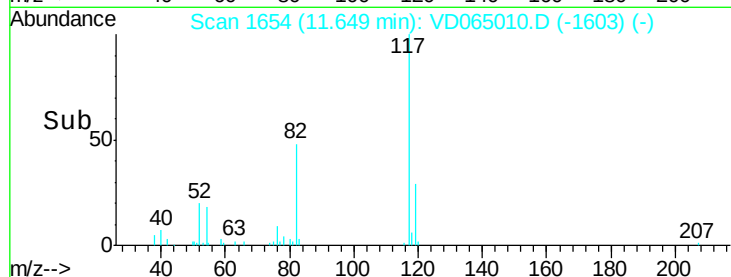
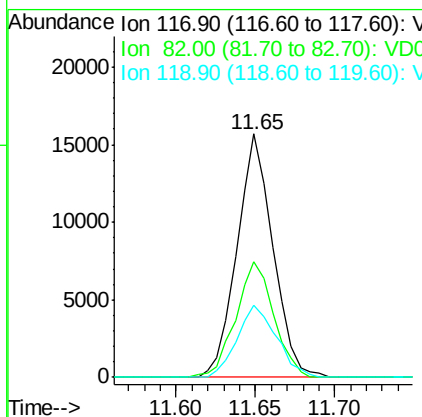
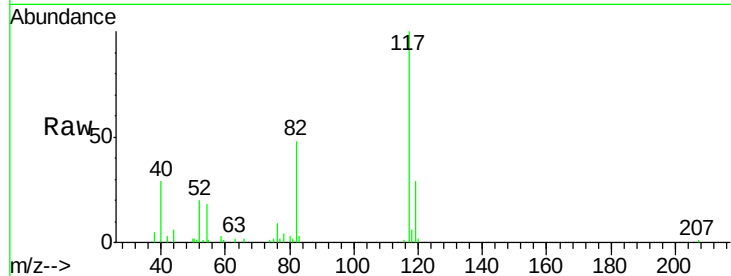




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD065010.D
Acq: 30 Jan 2020 13:50

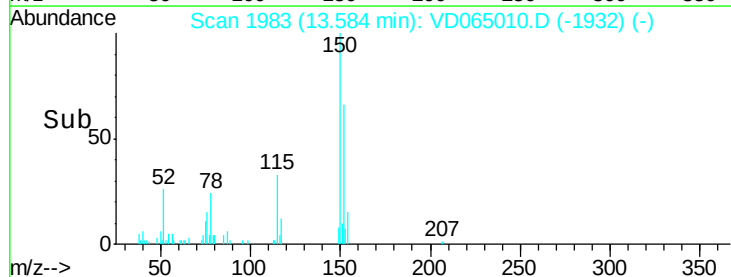
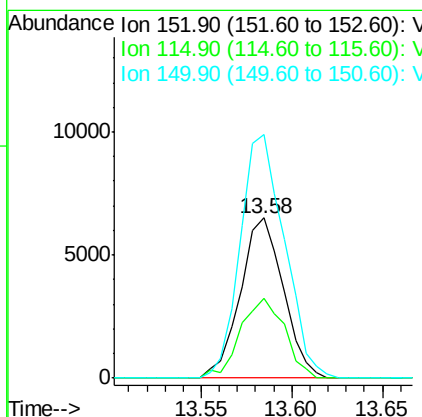
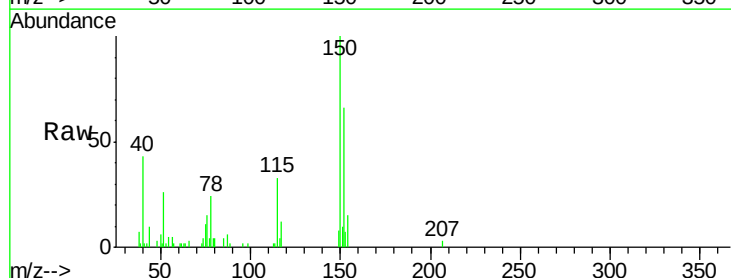
Instrument :
MSVOA_D
ClientSampleId :
RAINEY-PARK-BH-03-B

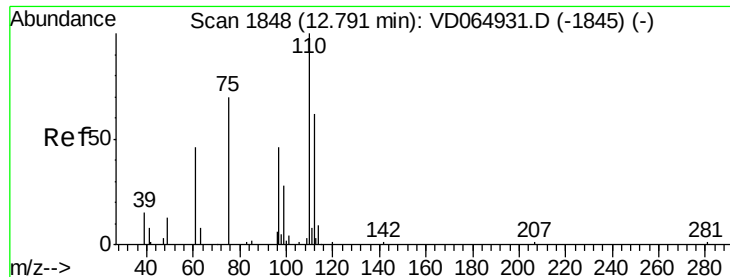
Tot Ion:117 Resp: 24654
Ion Ratio Lower Upper
117 100
82 47.7 43.6 65.4
119 29.5 25.2 37.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. -0.00 min
Lab File: VD065010.D
Acq: 30 Jan 2020 13:50

Tgt Ion:152 Resp: 10755
Ion Ratio Lower Upper
152 100
115 51.5 28.1 84.4
150 156.3 0.0 350.4





#76

1,2,3-Trichloropropane

Concen: 52.203 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD065010.D

Acq: 30 Jan 2020 13:50

Instrument :

MSVOA_D

ClientSampleId :

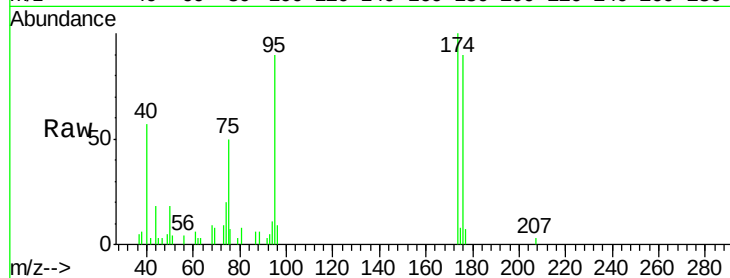
RAINEY-PARK-BH-03-B

Tot Ion: 75 Resp: 4660

Ion Ratio Lower Upper

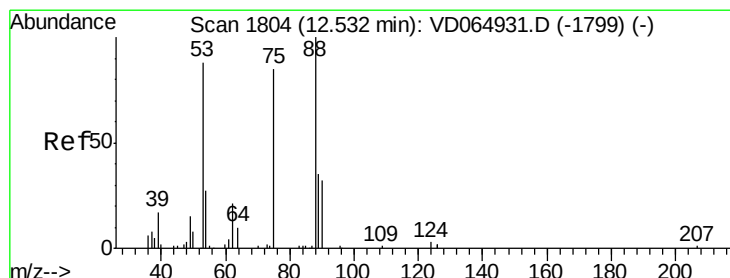
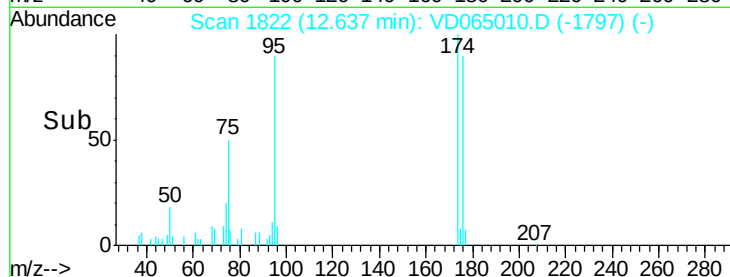
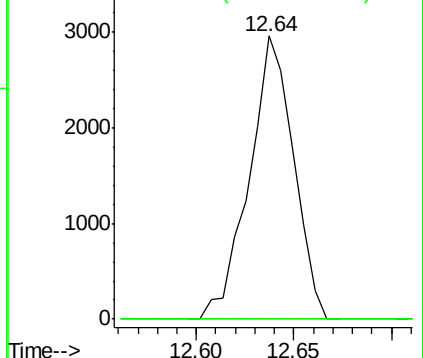
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 111.465 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD065010.D

Acq: 30 Jan 2020 13:50

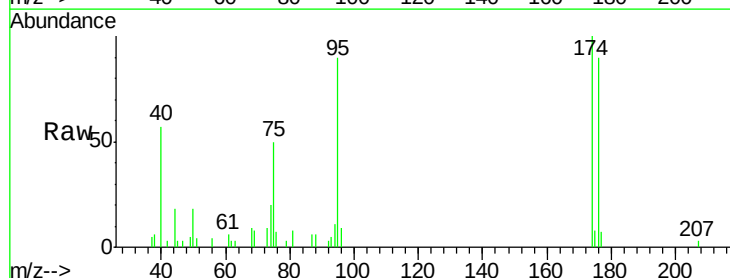
Tgt Ion: 75 Resp: 4660

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.4#

89 0.0 36.2 54.4#



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

