

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD013020\
 Data File : VD065011.D
 Acq On : 30 Jan 2020 14:18
 Operator : VA/SY
 Sample : L1318-06
 Misc : 5.91G/5.00ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

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

Quant Time: Jan 30 14:36:36 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	19614	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	28166	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.66	117	30653	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	14694	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	15069	80.09	ug/l	0.00
Spiked Amount			Recovery	=	160.18%	
35) Dibromofluoromethane	7.92	113	12170	68.76	ug/l	0.00
Spiked Amount			Recovery	=	137.52%	
50) Toluene-d8	10.34	98	32936	48.21	ug/l	0.00
Spiked Amount			Recovery	=	96.42%	
62) 4-Bromofluorobenzene	12.64	95	12026	57.52	ug/l	0.00
Spiked Amount			Recovery	=	115.04%	

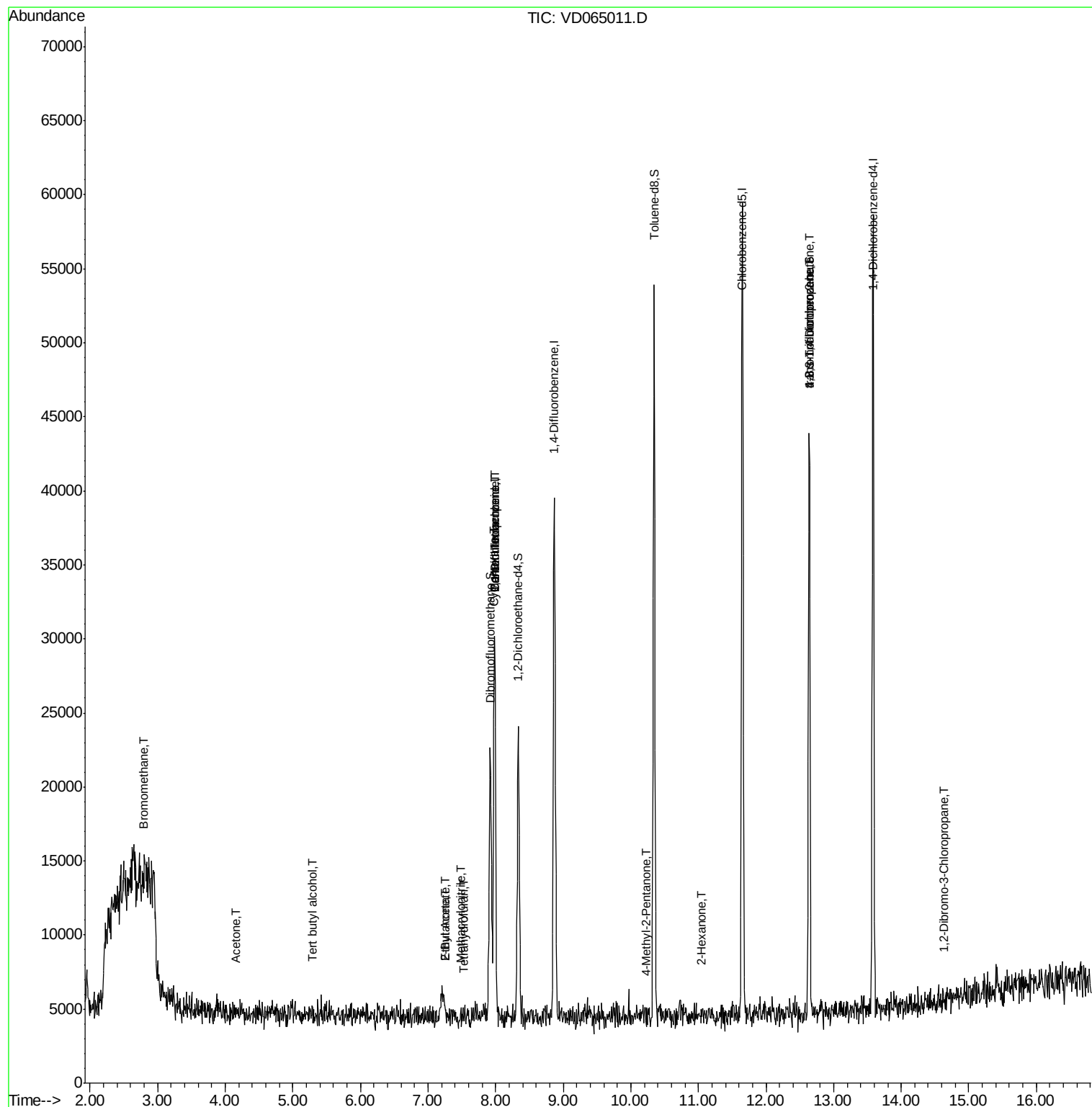
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.79	94	283	1.691	ug/l	85
11) Tert butyl alcohol	5.29	59	60	5.771	ug/l #	74
16) Acetone	4.16	43	238	18.094	ug/l #	45
20) Methylene Chloride	4.99	84	596	Below Cal	#	32
25) 2-Butanone	7.26	43	137	2.695	ug/l #	49
29) Tetrahydrofuran	7.53	42	70	2.232	ug/l #	34
31) Cyclohexane	7.97	56	425	1.297	ug/l #	69
36) 1,1-Dichloropropene	7.99	75	1506	5.545	ug/l #	42
37) Ethyl Acetate	7.26	43	137	1.221	ug/l #	69
38) Carbon Tetrachloride	7.98	117	1726	6.012	ug/l #	14
41) Methacrylonitrile	7.49	41	66	1.092	ug/l #	24
51) 4-Methyl-2-Pentanone	10.23	43	224	2.101	ug/l #	37
59) 2-Hexanone	11.05	43	91	1.237	ug/l #	25
76) 1,2,3-Trichloropropane	12.64	75	6195	50.795	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	6195	108.458	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.63	75	55	2.036	ug/l #	1

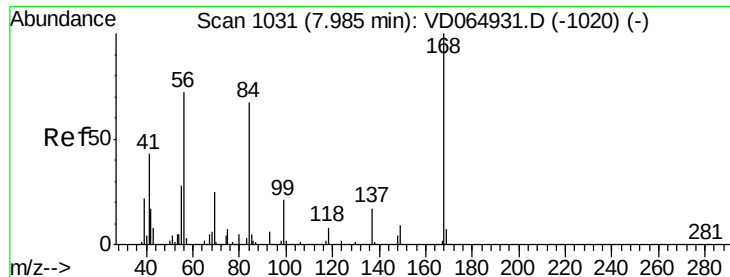
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD013020\
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD065011.D

Acq: 30 Jan 2020 14:18

Instrument :

MSVOA_D

ClientSampleId :

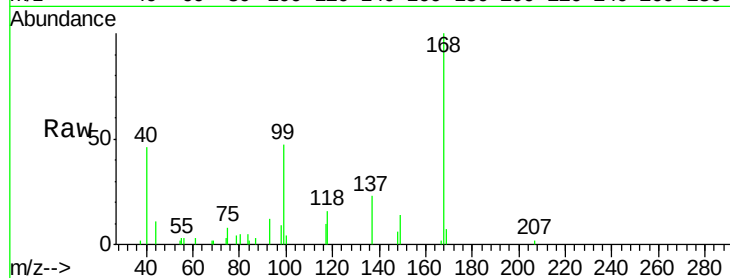
RAINEY-PARK-BH-03-C

Tot Ion:168 Resp: 19614

Ion Ratio Lower Upper

168 100

99 46.9 43.3 64.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

8000

6000

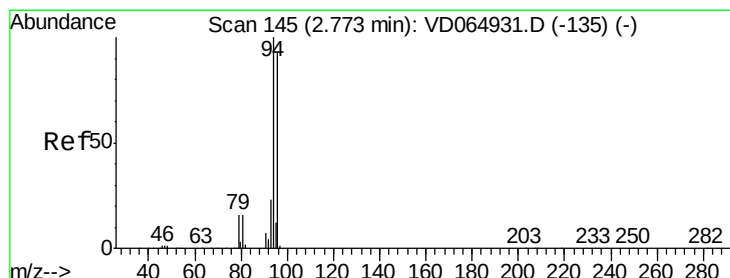
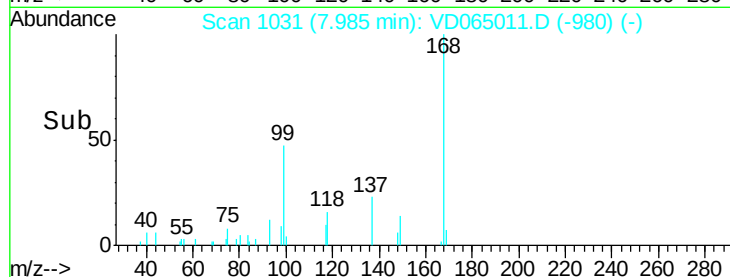
4000

2000

0

7.90 7.95 8.00 8.05

Time-->



#5

Bromomethane

Concen: 1.691 ug/l

RT: 2.79 min Scan# 148

Delta R.T. 0.02 min

Lab File: VD065011.D

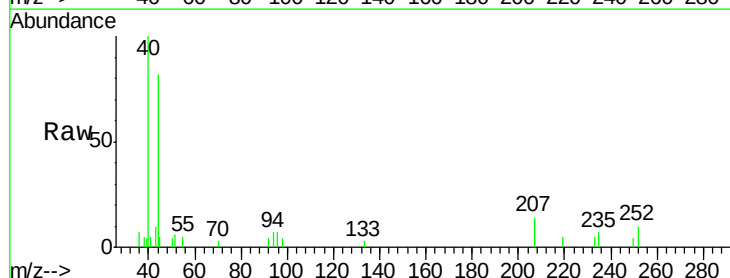
Acq: 30 Jan 2020 14:18

Tgt Ion: 94 Resp: 283

Ion Ratio Lower Upper

94 100

96 107.9 74.6 111.8



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.79

300

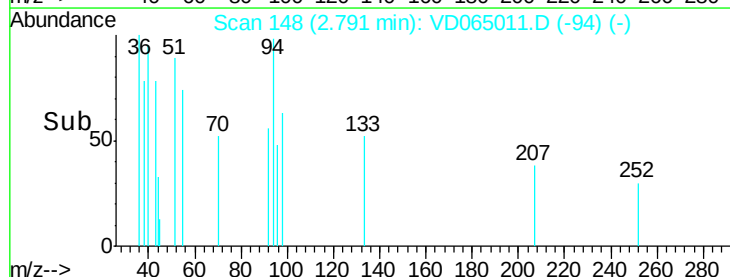
200

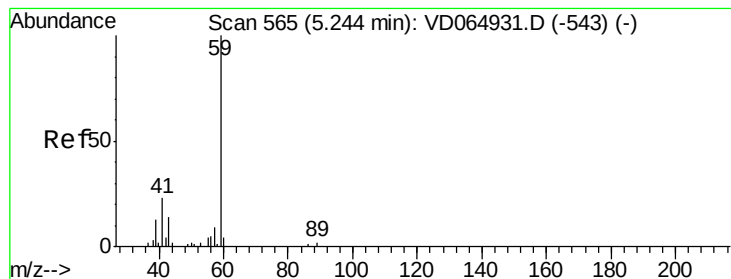
100

0

2.76 2.78 2.80

Time-->





#11

Tert butyl alcohol

Concen: 5.771 ug/l

RT: 5.29 min Scan# 573

Delta R.T. 0.05 min

Lab File: VD065011.D

Acq: 30 Jan 2020 14:18

Instrument :

MSVOA_D

ClientSampleId :

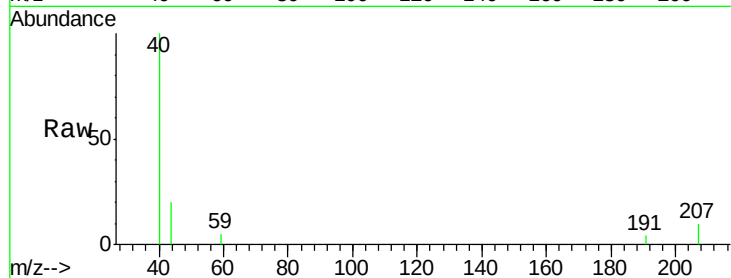
RAINEY-PARK-BH-03-C

Tot Ion: 59 Resp: 60

Ion Ratio Lower Upper

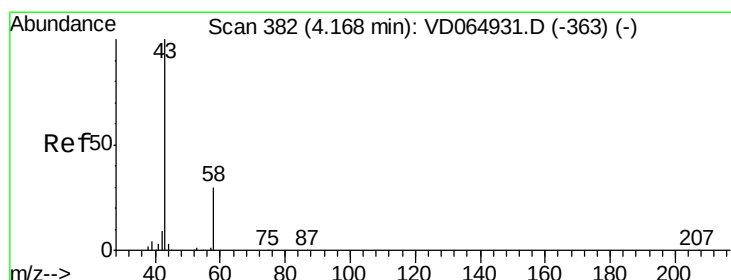
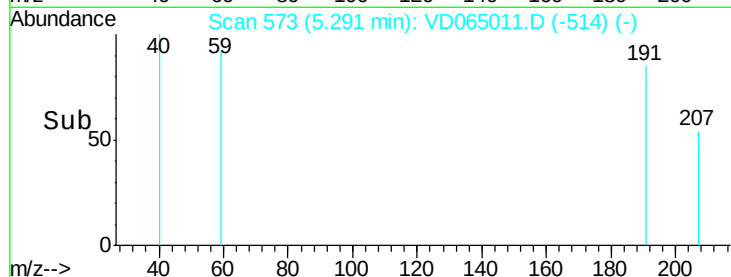
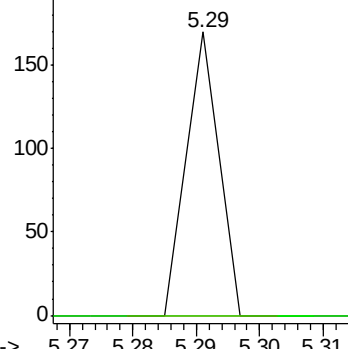
59 100

57 0.0 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC



#16

Acetone

Concen: 18.094 ug/l

RT: 4.16 min Scan# 380

Delta R.T. -0.01 min

Lab File: VD065011.D

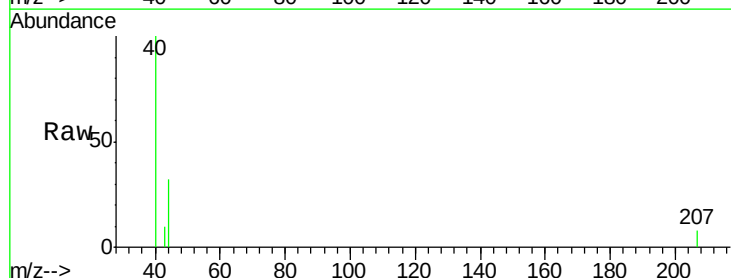
Acq: 30 Jan 2020 14:18

Tgt Ion: 43 Resp: 238

Ion Ratio Lower Upper

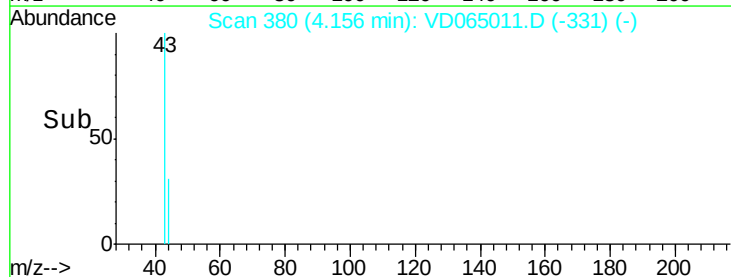
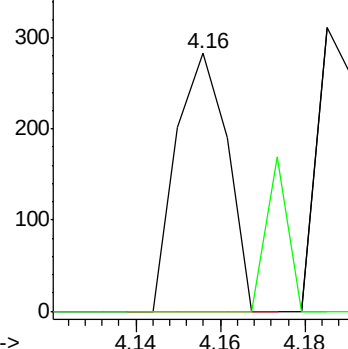
43 100

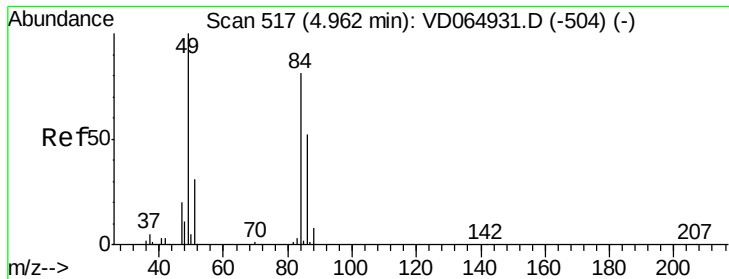
58 0.0 23.8 35.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



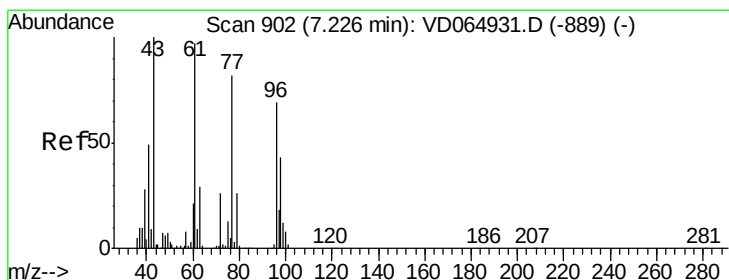
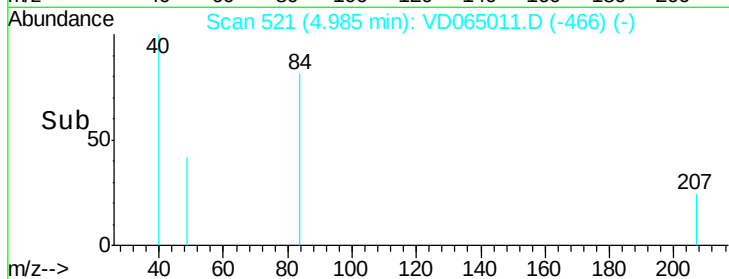
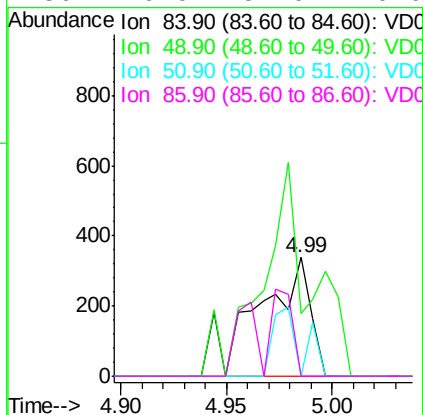
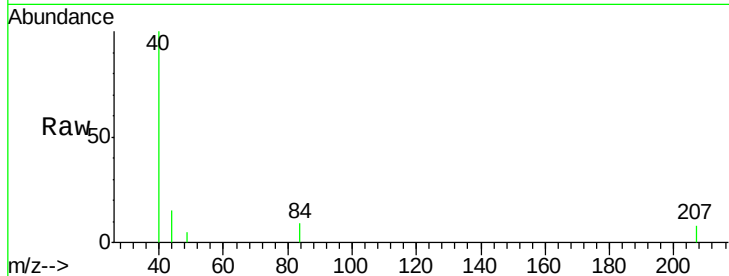


#20

Methylene Chloride
 Concen: Below Cal
 RT: 4.99 min Scan# 521
 Delta R.T. 0.02 min
 Lab File: VD065011.D
 Acq: 30 Jan 2020 14:18

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

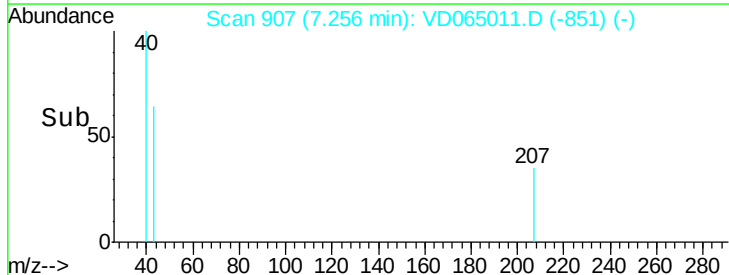
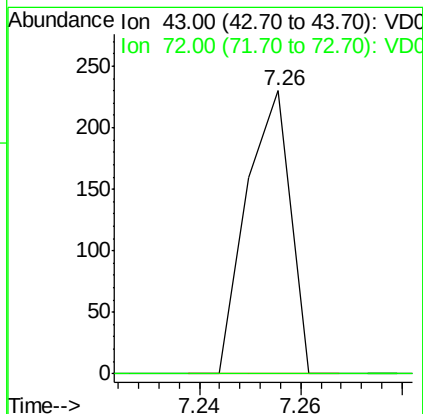
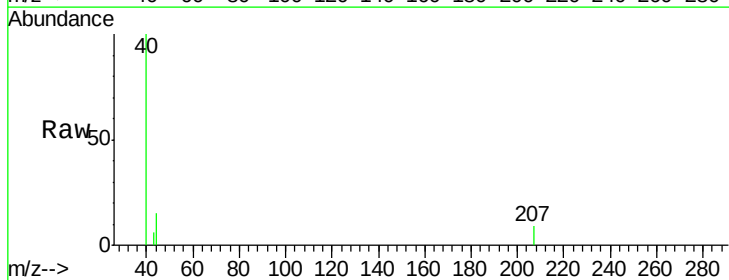
Tot Ion: 84 Resp: 596
 Ion Ratio Lower Upper
 84 100
 49 52.5 98.4 147.6#
 51 0.0 30.8 46.2#
 86 0.0 51.0 76.6#

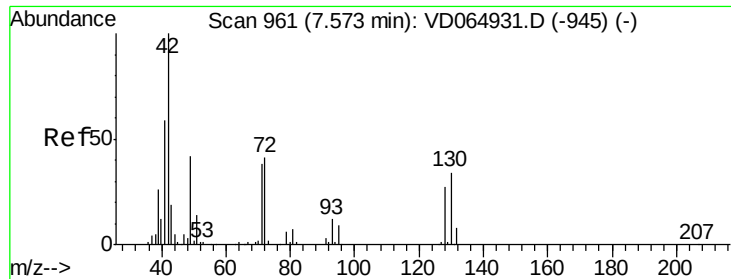


#25

2-Butanone
 Concen: 2.695 ug/l
 RT: 7.26 min Scan# 907
 Delta R.T. 0.03 min
 Lab File: VD065011.D
 Acq: 30 Jan 2020 14:18

Tgt Ion: 43 Resp: 137
 Ion Ratio Lower Upper
 43 100
 72 0.0 20.6 31.0#

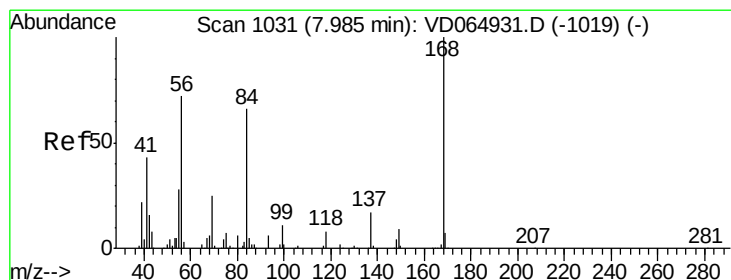
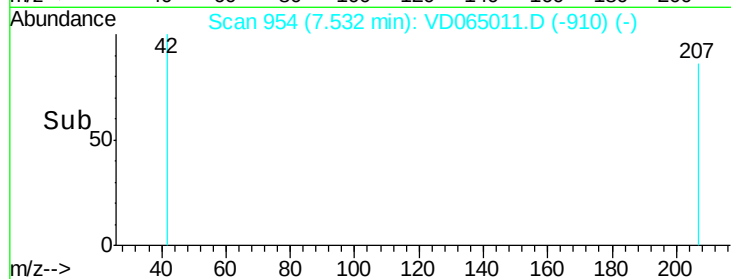
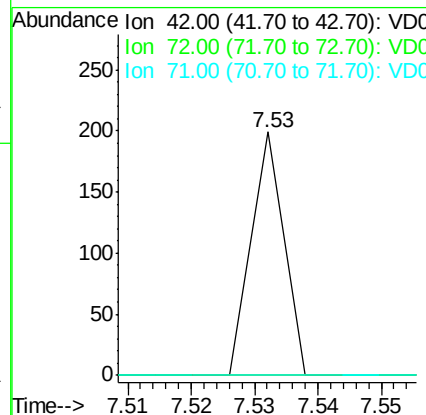
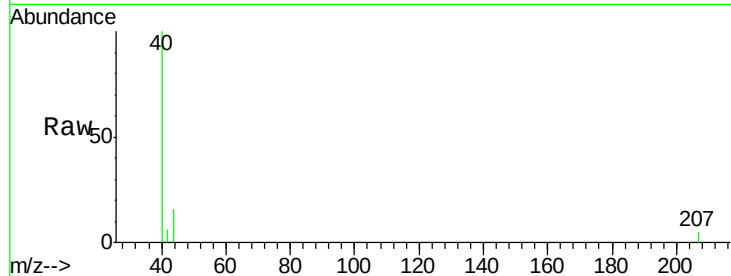




#29
Tetrahydrofuran
Concen: 2.232 ug/l
RT: 7.53 min Scan# 954
Delta R.T. -0.04 min
Lab File: VD065011.D
Acq: 30 Jan 2020 14:18

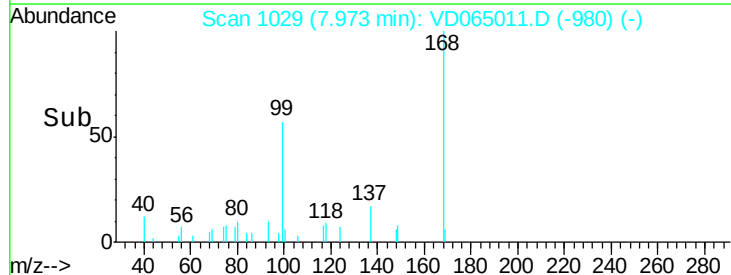
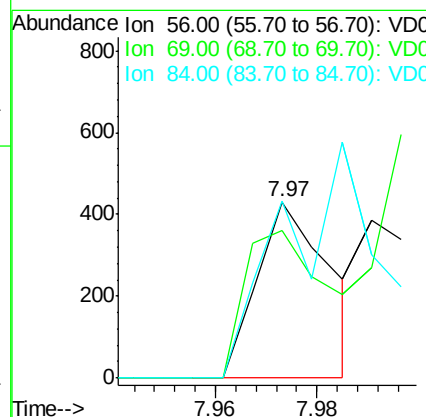
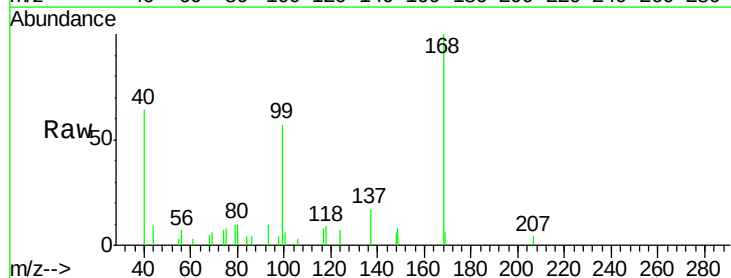
Instrument :
MSVOA_D
ClientSampleId :
RAINEY-PARK-BH-03-C

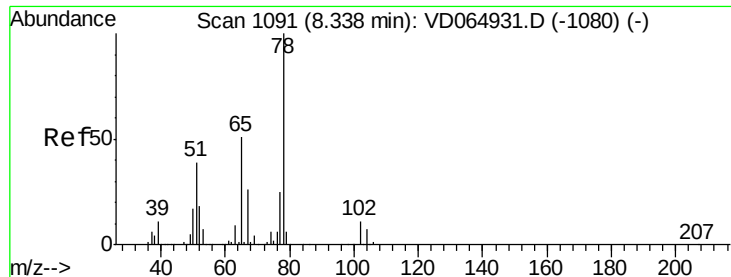
Tot Ion: 42 Resp: 70
Ion Ratio Lower Upper
42 100
72 0.0 34.0 51.0#
71 0.0 31.5 47.3#



#31
Cyclohexane
Concen: 1.297 ug/l
RT: 7.97 min Scan# 1029
Delta R.T. -0.01 min
Lab File: VD065011.D
Acq: 30 Jan 2020 14:18

Tgt Ion: 56 Resp: 425
Ion Ratio Lower Upper
56 100
69 83.8 27.9 41.9#
84 100.7 72.8 109.2





#33

1,2-Dichloroethane-d4

Concen: 80.094 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.01 min

Lab File: VD065011.D

Acq: 30 Jan 2020 14:18

Instrument :

MSVOA_D

ClientSampleId :

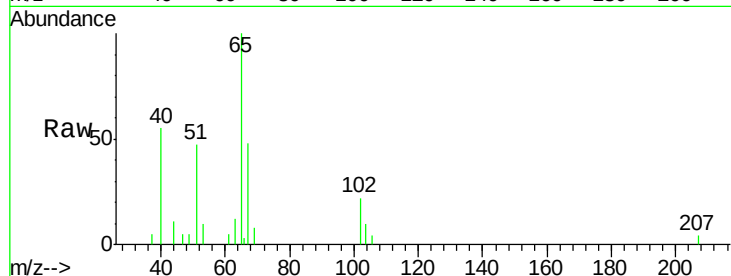
RAINEY-PARK-BH-03-C

Tot Ion: 65 Resp: 15069

Ion Ratio Lower Upper

65 100

67 49.4 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.33

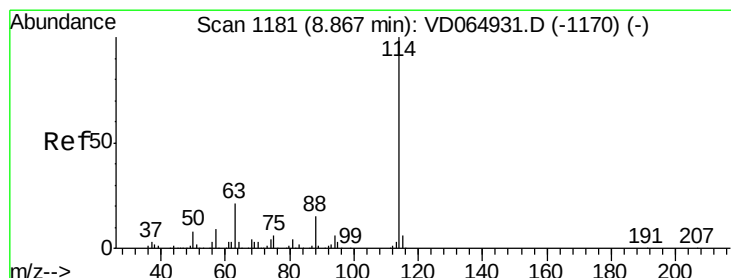
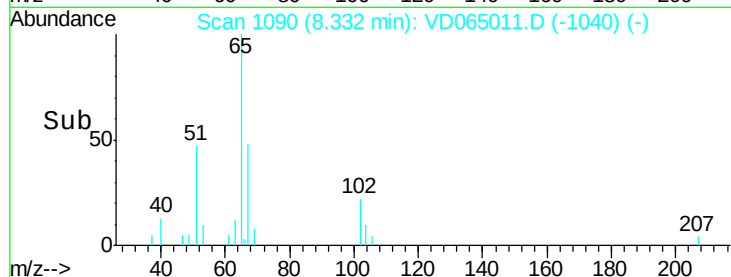
6000

4000

2000

0

8.25 8.30 8.35 8.40



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VD065011.D

Acq: 30 Jan 2020 14:18

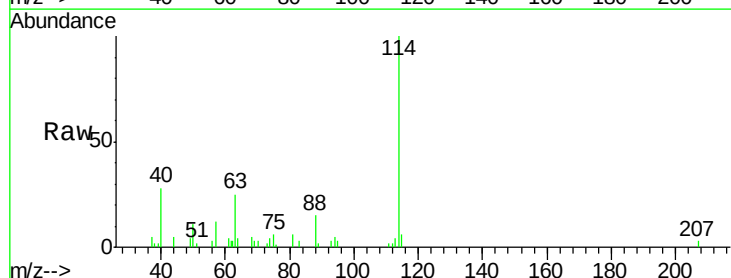
Tgt Ion: 114 Resp: 28166

Ion Ratio Lower Upper

114 100

63 24.9 0.0 42.0

88 15.3 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

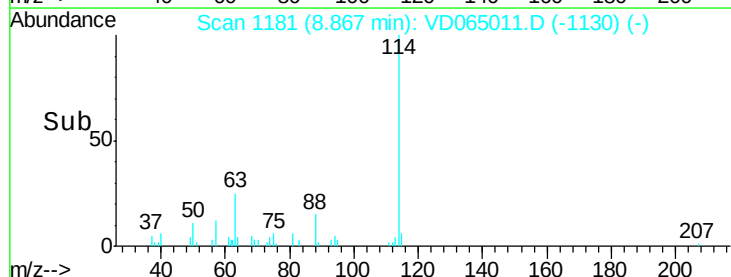
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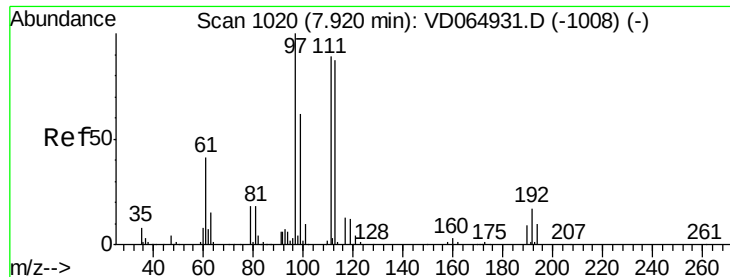
10000

5000

0

8.80 8.85 8.90 8.95





#35

Dibromofluoromethane

Concen: 68.758 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. -0.00 min

Lab File: VD065011.D

Acq: 30 Jan 2020 14:18

Instrument :

MSVOA_D

ClientSampleId :

RAINEY-PARK-BH-03-C

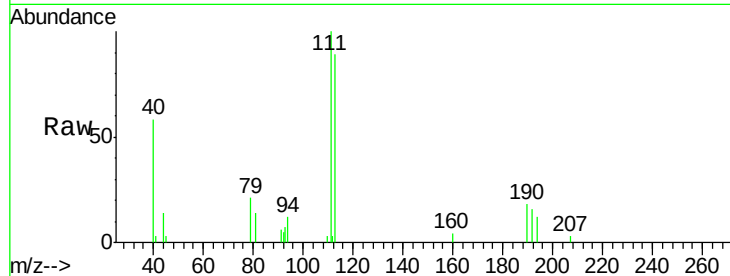
Tot Ion:113 Resp: 12170

Ion Ratio Lower Upper

113 100

111 105.6 82.4 123.6

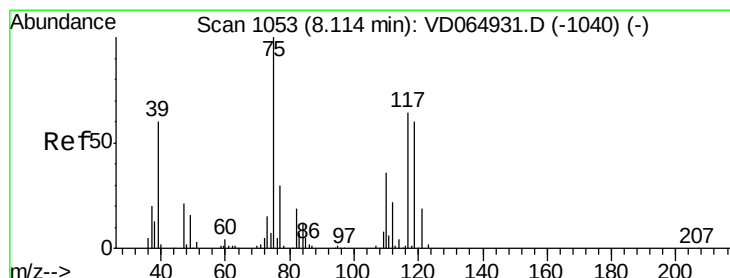
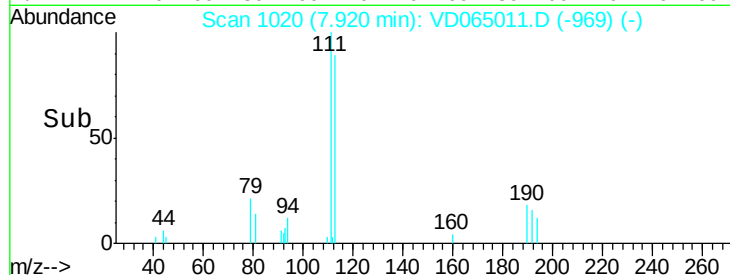
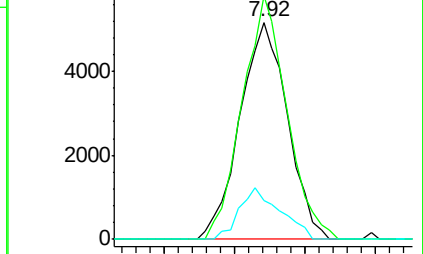
192 20.5 16.9 25.3



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



#36

1,1-Dichloropropene

Concen: 5.545 ug/l

RT: 7.99 min Scan# 1032

Delta R.T. -0.12 min

Lab File: VD065011.D

Acq: 30 Jan 2020 14:18

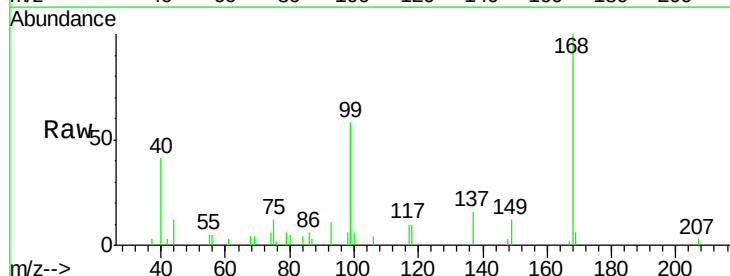
Tgt Ion: 75 Resp: 1506

Ion Ratio Lower Upper

75 100

110 0.0 17.3 52.0#

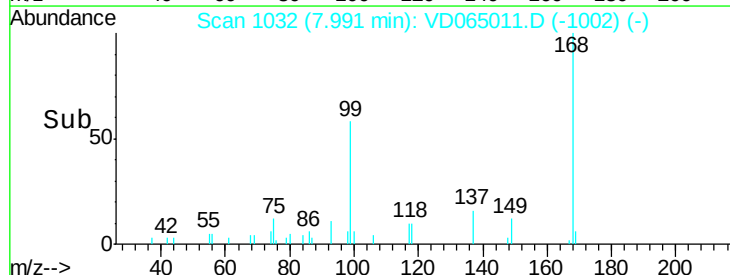
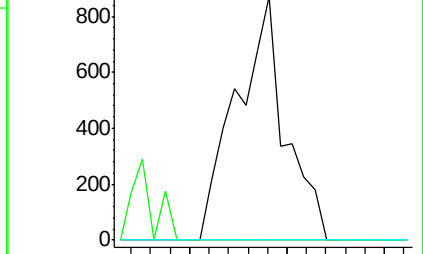
77 0.0 24.7 37.1#

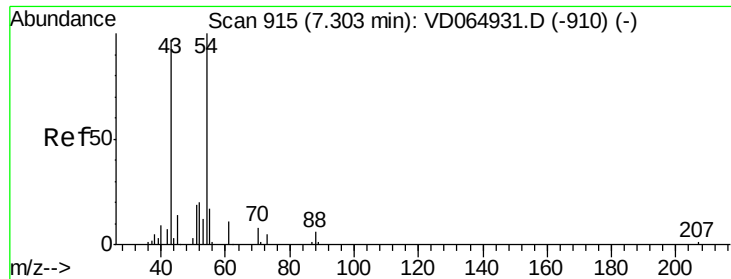


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VDC

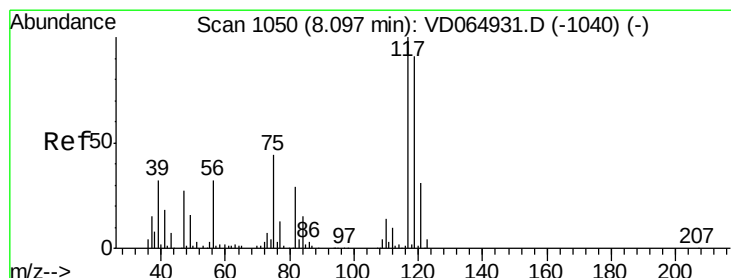
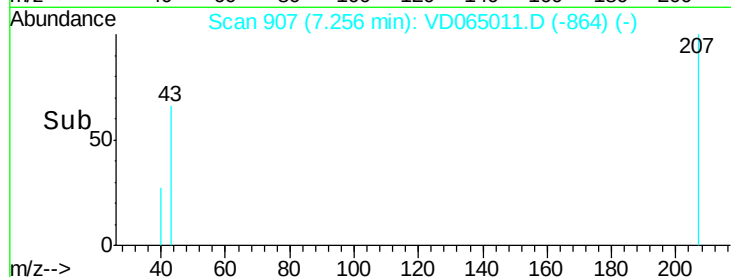
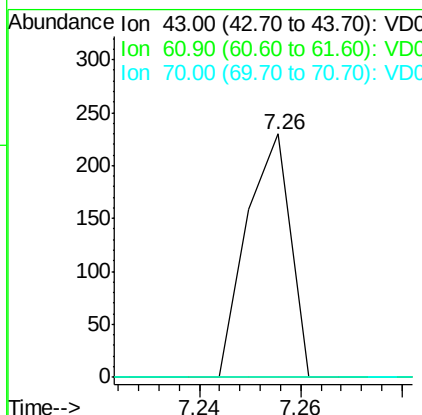
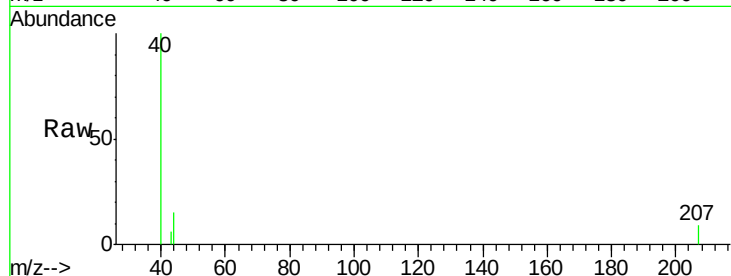




#37
Ethyl Acetate
Concen: 1.221 ug/l
RT: 7.26 min Scan# 907
Delta R.T. -0.05 min
Lab File: VD065011.D
Acq: 30 Jan 2020 14:18

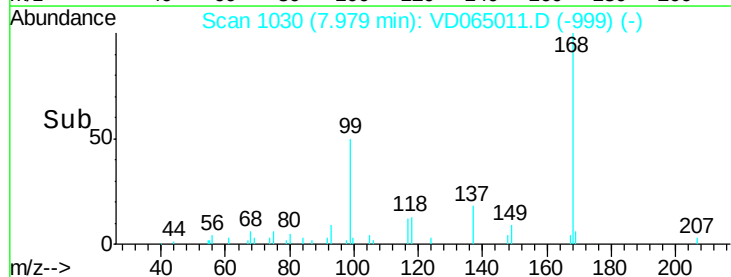
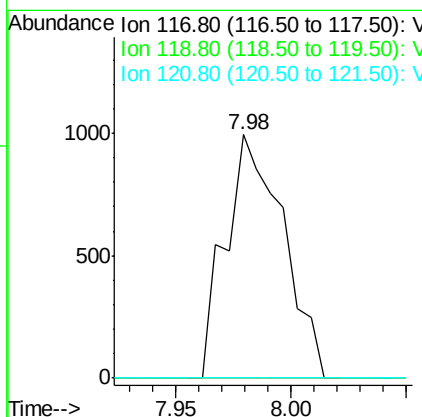
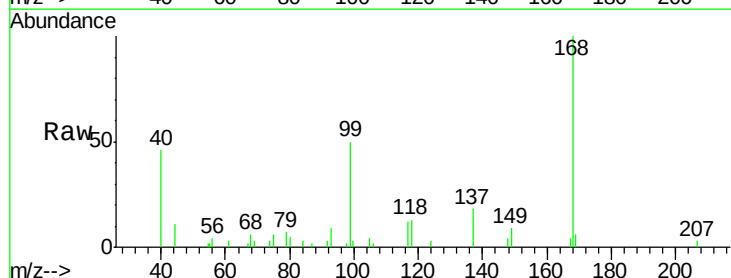
Instrument :
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RAINEY-PARK-BH-03-C

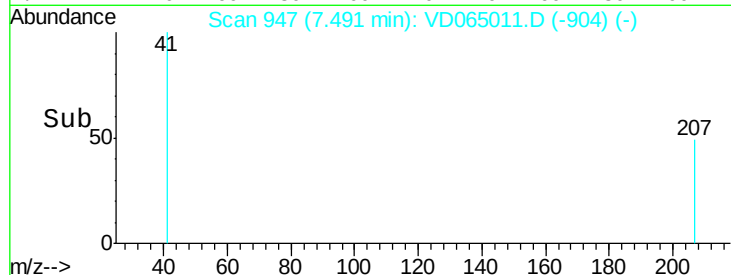
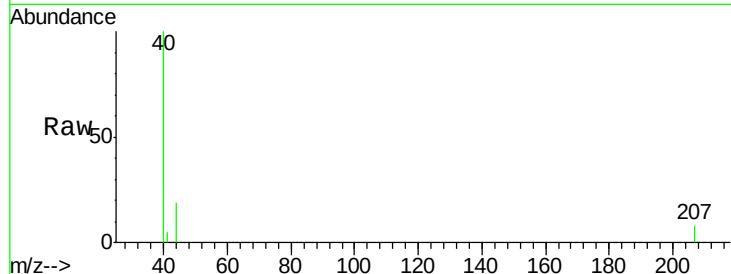
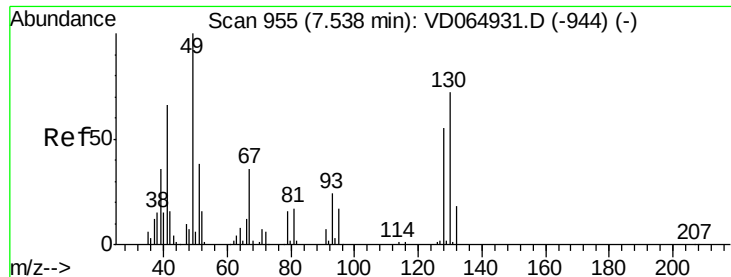
Tot Ion: 43 Resp: 137
Ion Ratio Lower Upper
43 100
61 0.0 11.0 16.4#
70 0.0 7.5 11.3#



#38
Carbon Tetrachloride
Concen: 6.012 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.12 min
Lab File: VD065011.D
Acq: 30 Jan 2020 14:18

Tgt Ion: 117 Resp: 1726
Ion Ratio Lower Upper
117 100
119 0.0 73.2 109.8#
121 0.0 24.4 36.6#

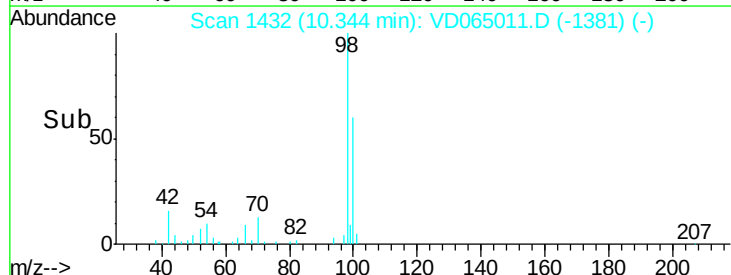
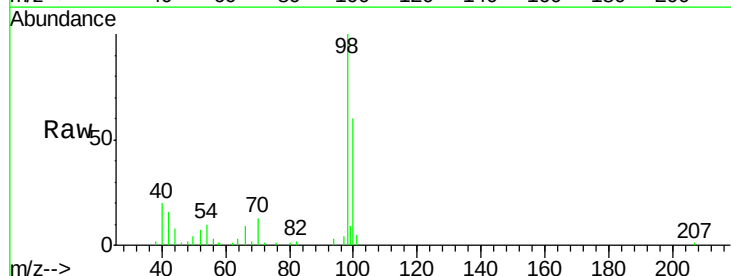
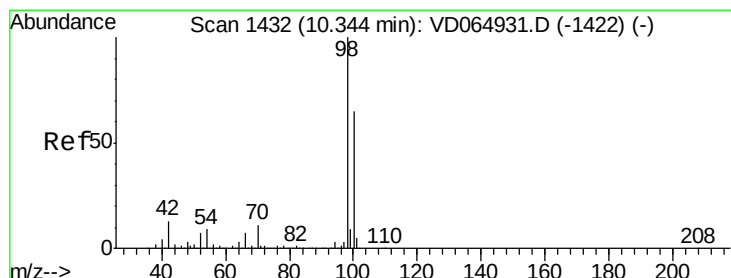
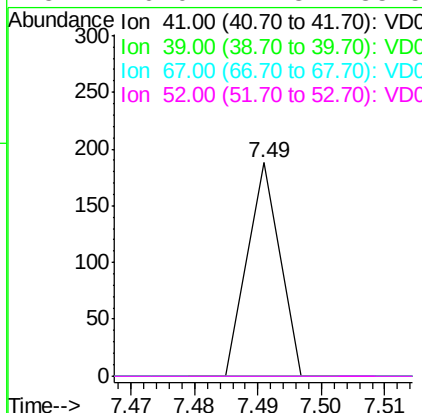




#41
Methacrylonitrile
Concen: 1.092 ug/l
RT: 7.49 min Scan# 947
Delta R.T. -0.05 min
Lab File: VD065011.D
Acq: 30 Jan 2020 14:18

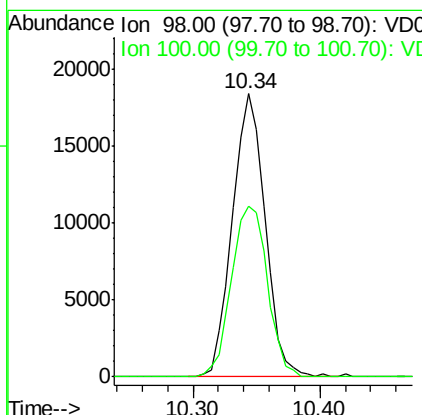
Instrument :
MSVOA_D
ClientSampleId :
RAINEY-PARK-BH-03-C

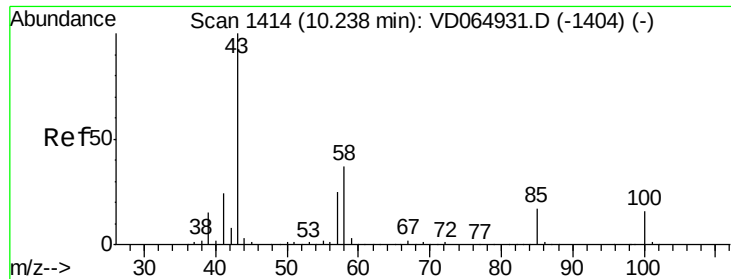
Tot Ion: 41 Resp: 66
Ion Ratio Lower Upper
41 100
39 0.0 49.3 73.9#
67 0.0 51.0 76.6#
52 0.0 22.3 33.5#



#50
Toluene-d8
Concen: 48.212 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD065011.D
Acq: 30 Jan 2020 14:18

Tgt Ion: 98 Resp: 32936
Ion Ratio Lower Upper
98 100
100 66.1 52.3 78.5





#51

4-Methyl-2-Pentanone

Concen: 2.101 ug/l

RT: 10.23 min Scan# 1412

Delta R.T. -0.01 min

Lab File: VD065011.D

Acq: 30 Jan 2020 14:18

Instrument :

MSVOA_D

ClientSampleId :

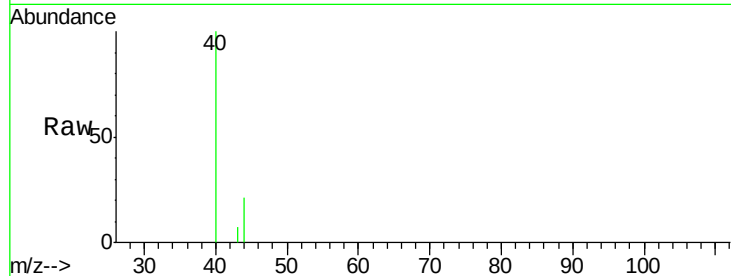
RAINEY-PARK-BH-03-C

Tot Ion: 43 Resp: 224

Ion Ratio Lower Upper

43 100

58 0.0 30.4 45.6#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

10.23

250

200

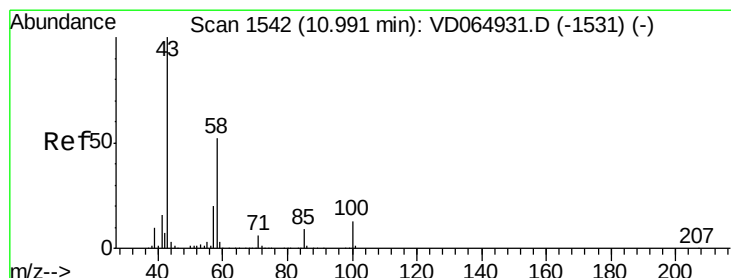
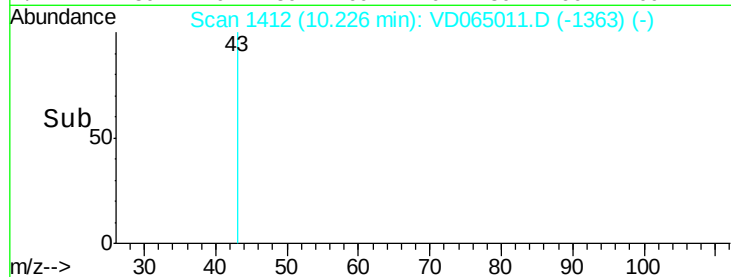
150

100

50

0

Time-->



#59

2-Hexanone

Concen: 1.237 ug/l

RT: 11.05 min Scan# 1552

Delta R.T. 0.06 min

Lab File: VD065011.D

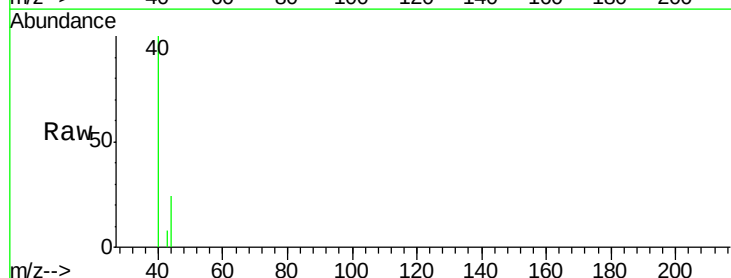
Acq: 30 Jan 2020 14:18

Tgt Ion: 43 Resp: 91

Ion Ratio Lower Upper

43 100

58 0.0 26.5 79.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

11.05

300

250

200

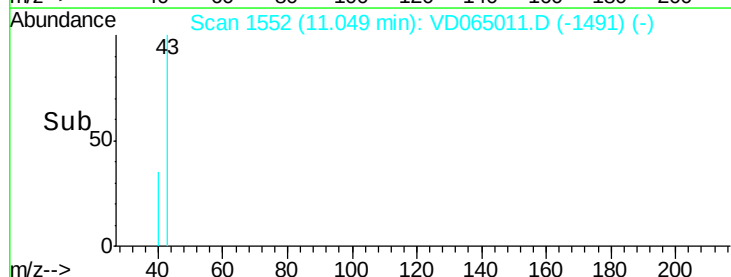
150

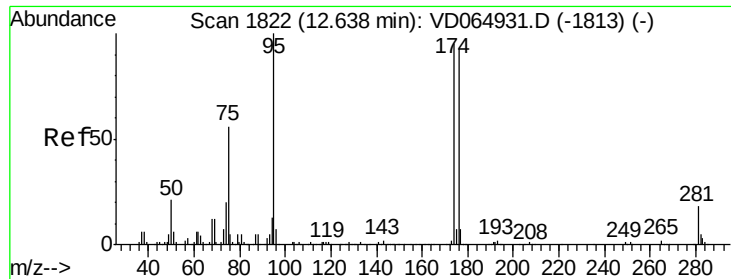
100

50

0

Time-->

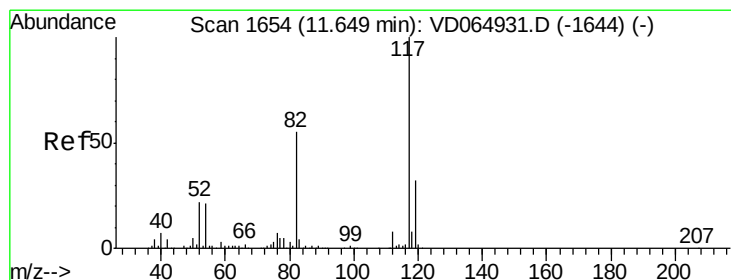
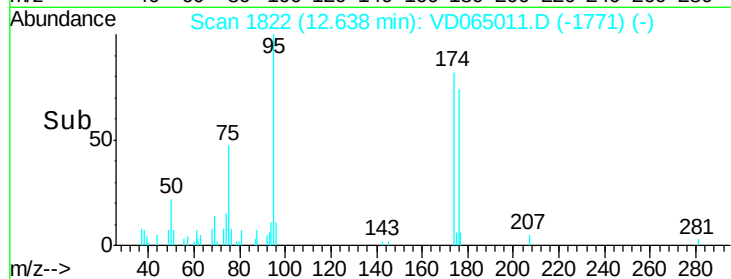
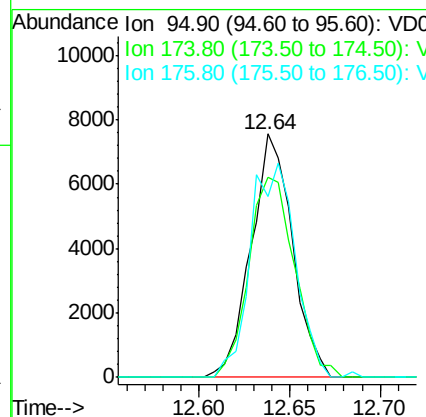
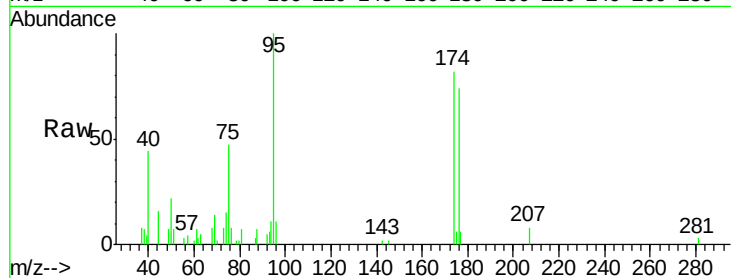




#62
4-Bromofluorobenzene
Concen: 57.525 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VD065011.D
Acq: 30 Jan 2020 14:18

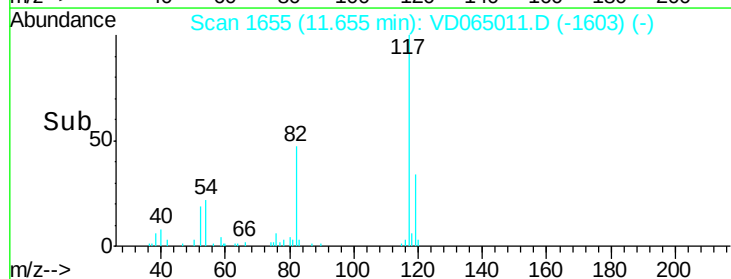
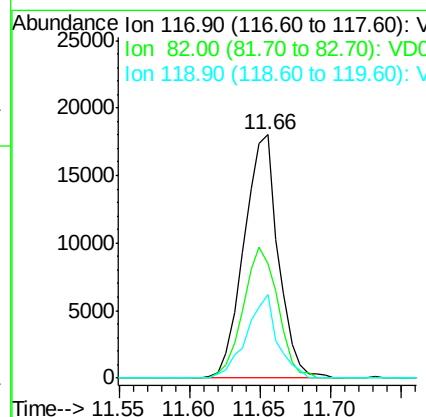
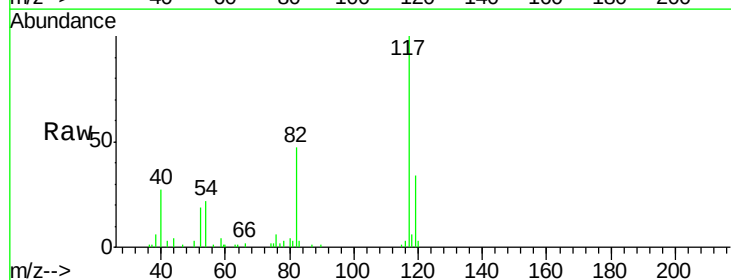
Instrument :
MSVOA_D
ClientSampleId :
RAINEY-PARK-BH-03-C

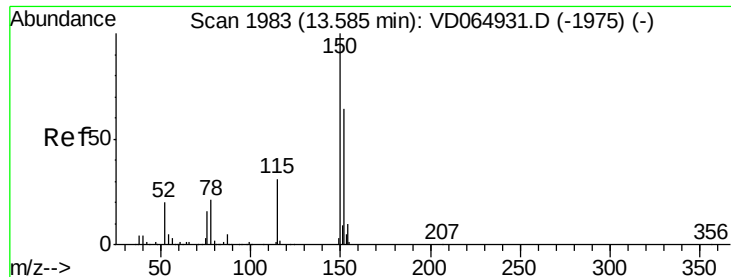
Tot Ion: 95 Resp: 12026
Ion Ratio Lower Upper
95 100
174 91.1 0.0 186.8
176 94.9 0.0 183.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.66 min Scan# 1655
Delta R.T. 0.01 min
Lab File: VD065011.D
Acq: 30 Jan 2020 14:18

Tgt Ion: 117 Resp: 30653
Ion Ratio Lower Upper
117 100
82 47.0 43.6 65.4
119 34.2 25.2 37.8



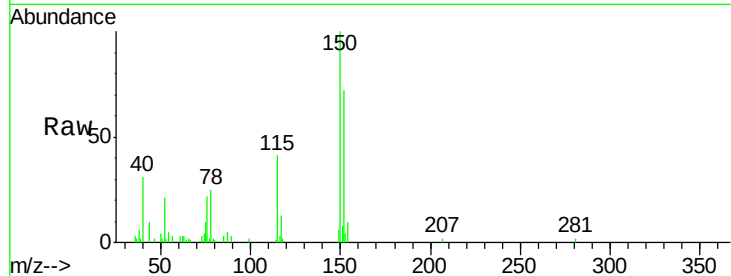


#72

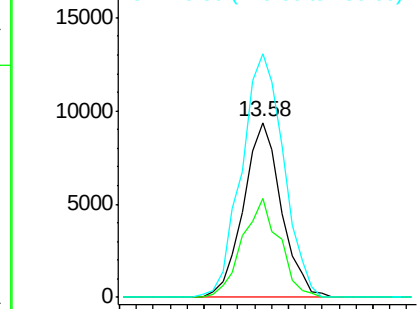
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. -0.00 min
Lab File: VD065011.D
Acq: 30 Jan 2020 14:18

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

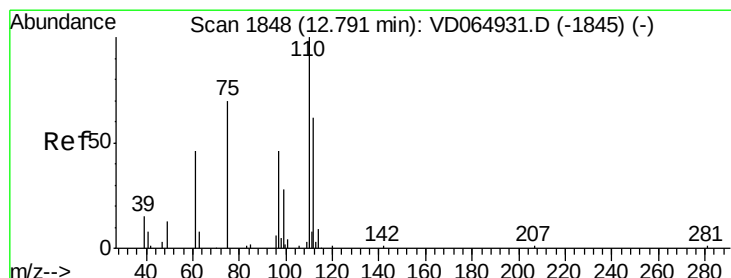
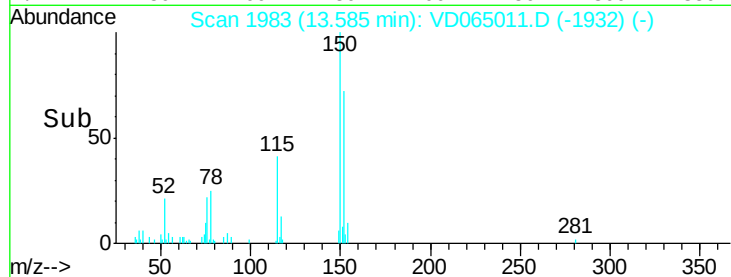
Tot Ion:152 Resp: 14694
Ion Ratio Lower Upper
152 100
115 55.2 28.1 84.4
150 154.4 0.0 350.4



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



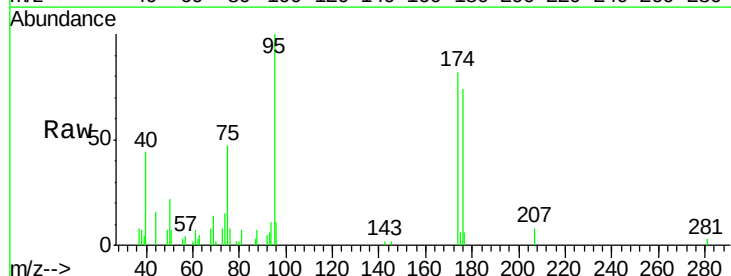
Time--> 13.50 13.55 13.60 13.65



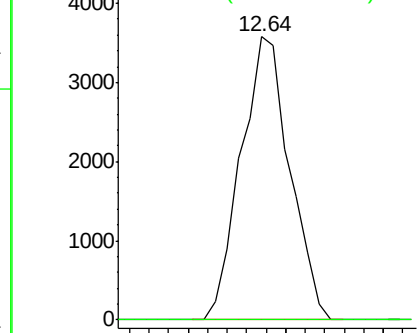
#76

1,2,3-Trichloropropane
Concen: 50.795 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.15 min
Lab File: VD065011.D
Acq: 30 Jan 2020 14:18

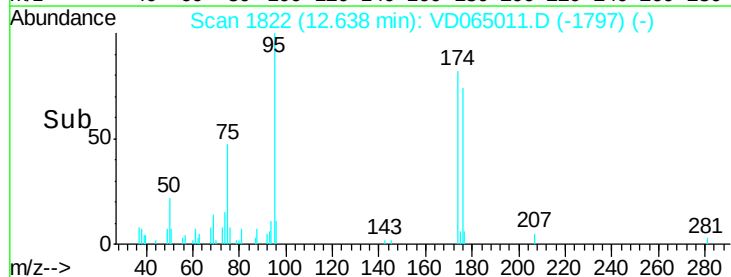
Tgt Ion: 75 Resp: 6195
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0

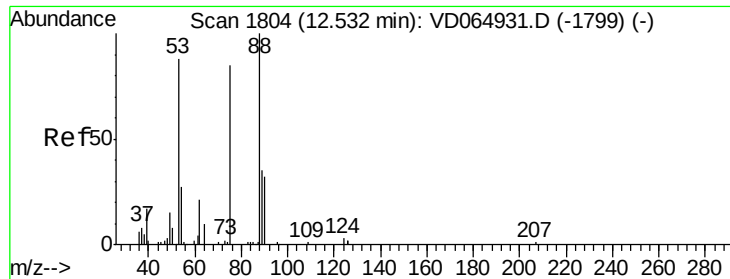


Abundance Ion 74.90 (74.60 to 75.60): VDC
Ion 77.00 (76.70 to 77.70): VDC



Time--> 12.60 12.65 12.70





#81

trans-1,4-Dichloro-2-butene

Concen: 108.458 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD065011.D

Acq: 30 Jan 2020 14:18

Instrument :

MSVOA_D

ClientSampleId :

RAINEY-PARK-BH-03-C

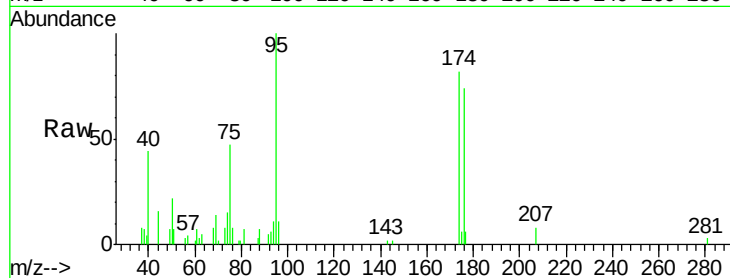
Tot Ion: 75 Resp: 6195

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.4#

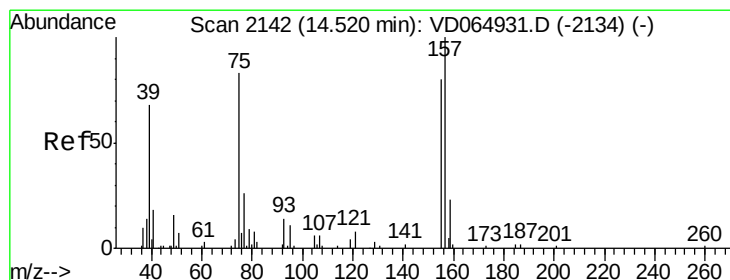
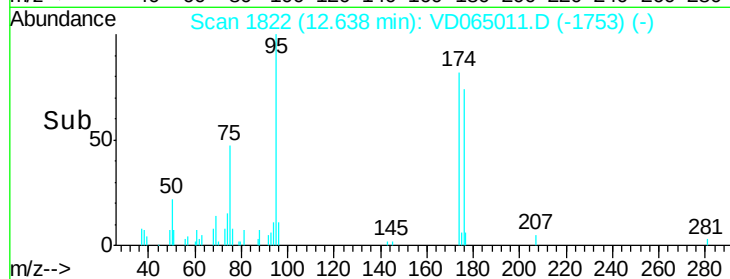
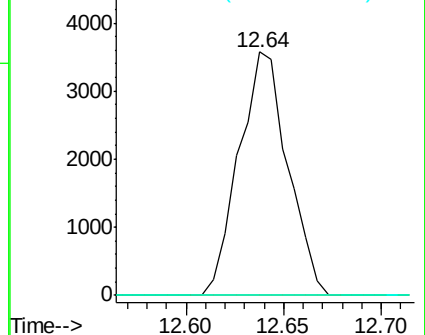
89 0.0 36.2 54.4#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.036 ug/l

RT: 14.63 min Scan# 2161

Delta R.T. 0.11 min

Lab File: VD065011.D

Acq: 30 Jan 2020 14:18

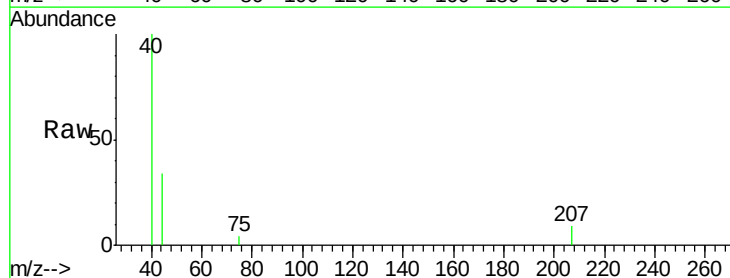
Tgt Ion: 75 Resp: 55

Ion Ratio Lower Upper

75 100

155 0.0 44.9 134.7#

157 0.0 58.9 176.6#



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

