

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD013020\
 Data File : VD065008.D
 Acq On : 30 Jan 2020 12:52
 Operator : VA/SY
 Sample : L1313-02RE
 Misc : 7.61G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 124018-ARE

Quant Time: Jan 30 13:24:21 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	7.99	168	20099	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	28471	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	30327	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	15756	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.34	65	14333	74.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	148.68%	
35) Dibromofluoromethane	7.92	113	10648	59.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.02%	
50) Toluene-d8	10.34	98	32703	47.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.72%	
62) 4-Bromofluorobenzene	12.64	95	11623	55.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.00%	

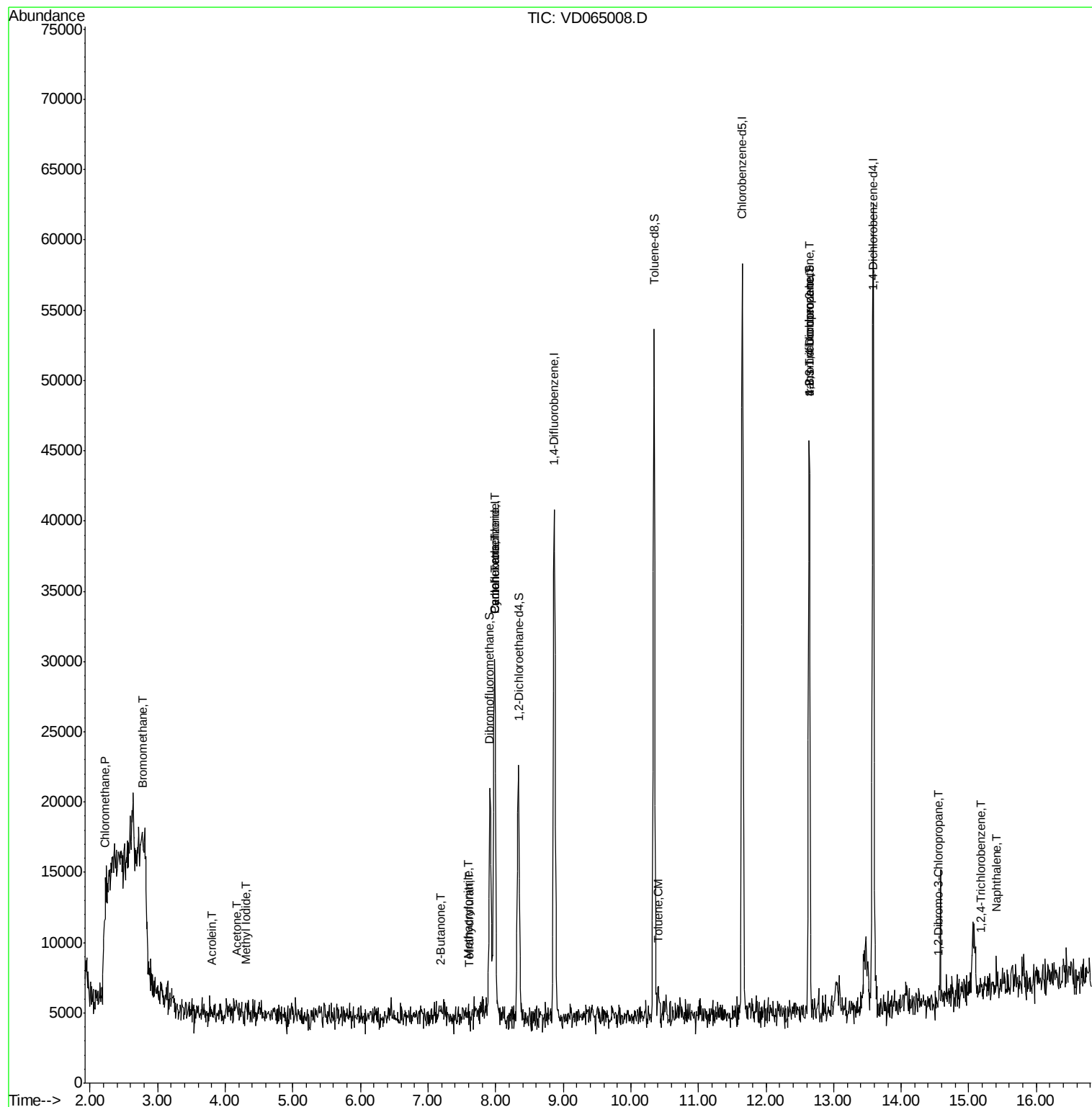
Target Compounds						Qvalue
3) Chloromethane	2.22	50	639	2.88	ug/l #	44
5) Bromomethane	2.78	94	1177	6.86	ug/l	89
10) Methyl Iodide	4.31	142	490	2.52	ug/l #	71
13) Acrolein	3.80	56	74	5.54	ug/l #	12
16) Acetone	4.17	43	594	24.28	ug/l #	45
20) Methylene Chloride	4.96	84	237	Below Cal	#	46
25) 2-Butanone	7.19	43	56	1.08	ug/l #	49
29) Tetrahydrofuran	7.61	42	60	1.87	ug/l #	34
31) Cyclohexane	7.99	56	565	1.68	ug/l #	64
38) Carbon Tetrachloride	7.98	117	2034	7.01	ug/l #	14
41) Methacrylonitrile	7.60	41	135	2.21	ug/l #	54
52) Toluene	10.40	92	826	1.69	ug/l	89
76) 1,2,3-Trichloropropane	12.64	75	6438	49.23	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	6438	105.12	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.54	75	65	2.24	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.17	180	569	1.92	ug/l #	26
95) Naphthalene	15.41	128	917	1.91	ug/l #	77

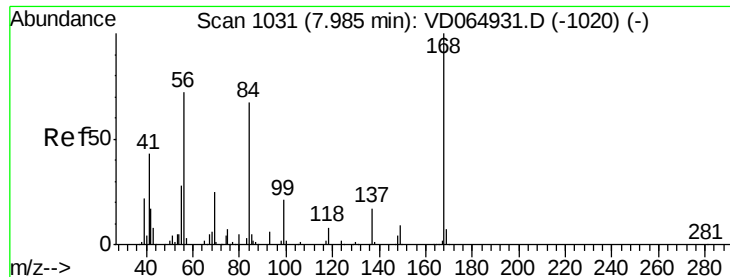
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_D\DATA\VD013020\
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065008.D

Acq: 30 Jan 2020 12:52

Instrument :

MSVOA_D

ClientSampleId :

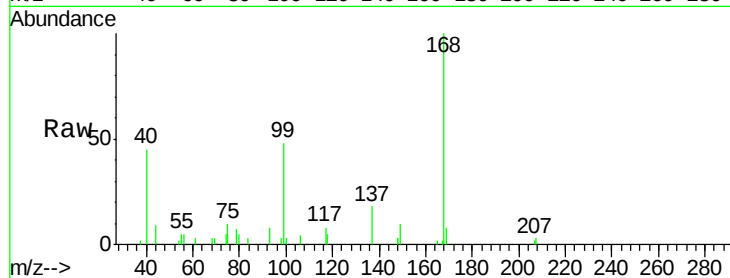
124018-ARE

Tgt Ion:168 Resp: 20099

Ion Ratio Lower Upper

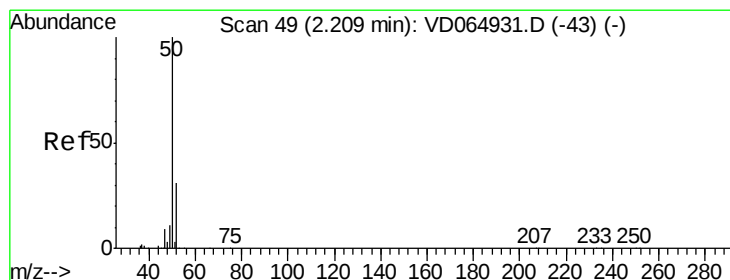
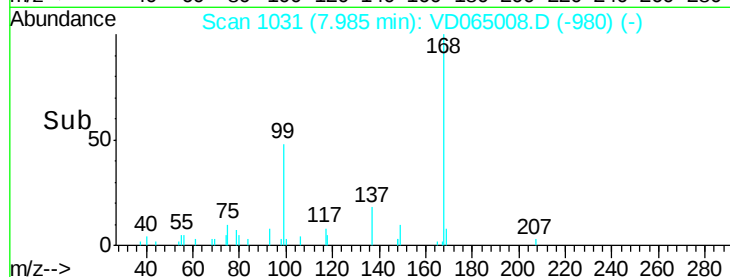
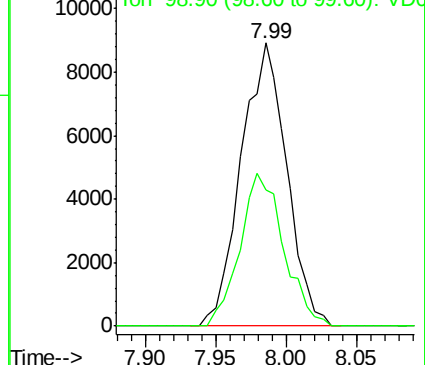
168 100

99 47.9 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: 2.88 ug/l

RT: 2.22 min Scan# 51

Delta R.T. 0.01 min

Lab File: VD065008.D

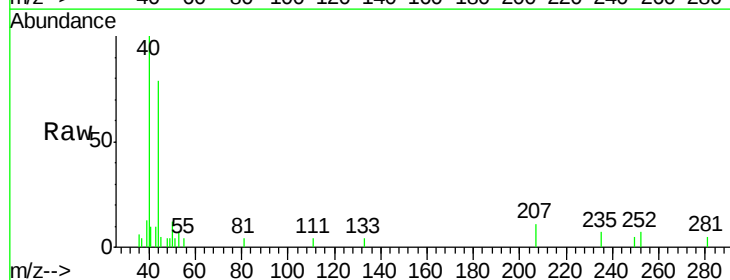
Acq: 30 Jan 2020 12:52

Tgt Ion: 50 Resp: 639

Ion Ratio Lower Upper

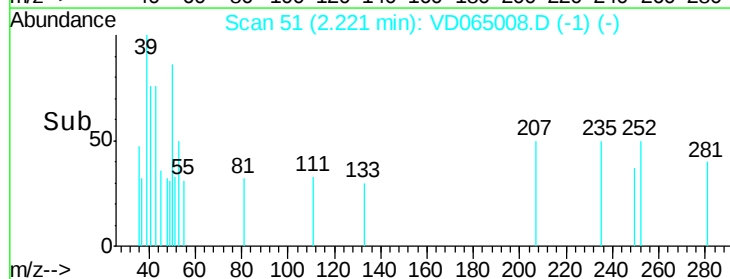
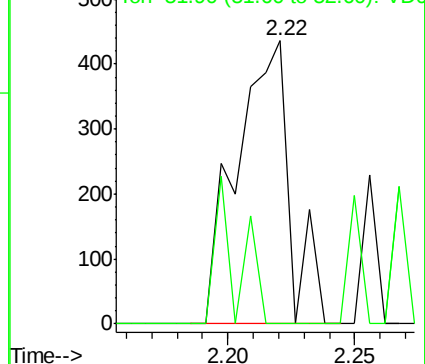
50 100

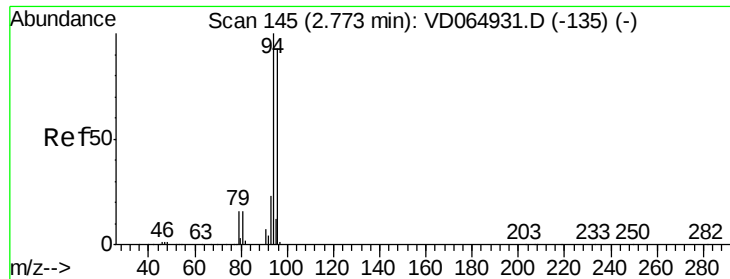
52 0.0 24.6 36.8#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 6.86 ug/l

RT: 2.78 min Scan# 146

Delta R.T. 0.01 min

Lab File: VD065008.D

Acq: 30 Jan 2020 12:52

Instrument :

MSVOA_D

ClientSampleId :

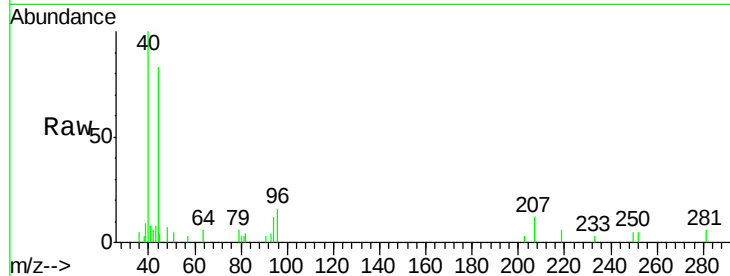
124018-ARE

Tgt Ion: 94 Resp: 1177

Ion Ratio Lower Upper

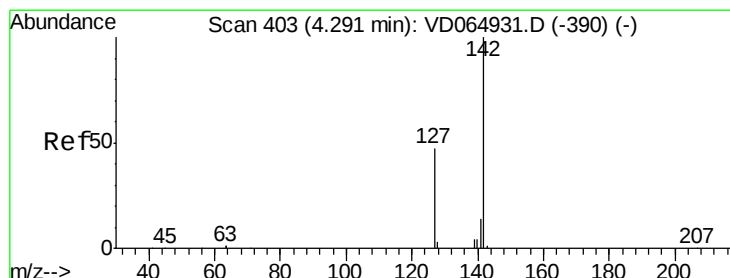
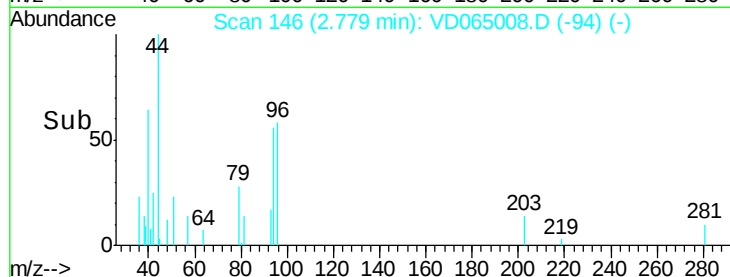
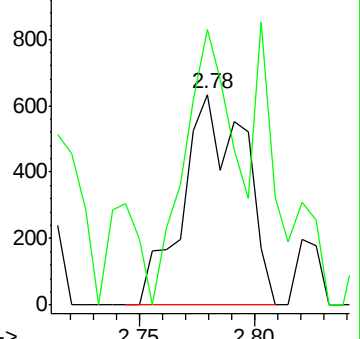
94 100

96 82.6 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: 2.52 ug/l

RT: 4.31 min Scan# 407

Delta R.T. 0.02 min

Lab File: VD065008.D

Acq: 30 Jan 2020 12:52

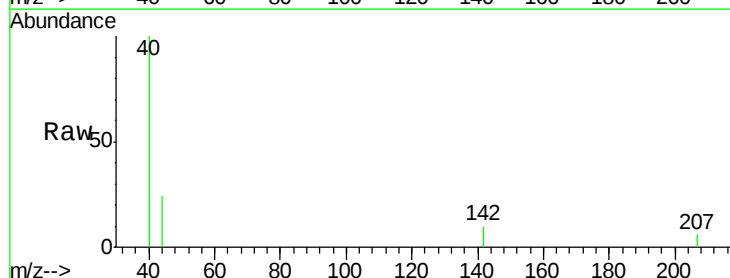
Tgt Ion: 142 Resp: 490

Ion Ratio Lower Upper

142 100

127 27.1 36.2 54.2#

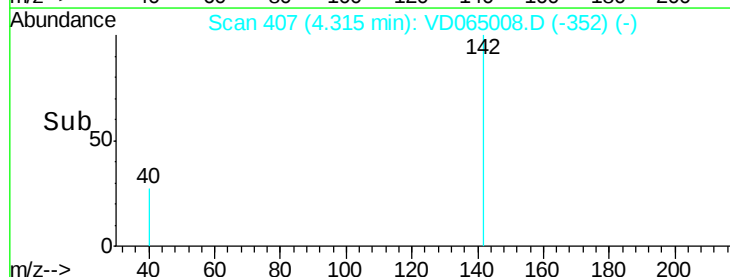
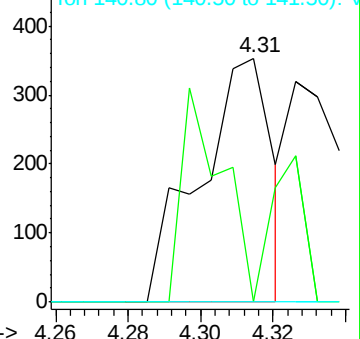
141 0.0 11.6 17.4#

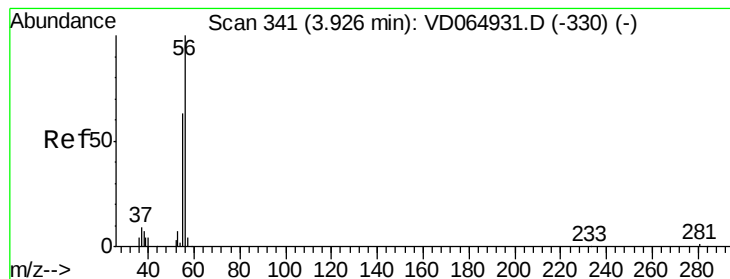


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#13

Acrolein

Concen: 5.54 ug/l

RT: 3.80 min Scan# 320

Delta R.T. -0.12 min

Lab File: VD065008.D

Acq: 30 Jan 2020 12:52

Instrument :

MSVOA_D

ClientSampleId :

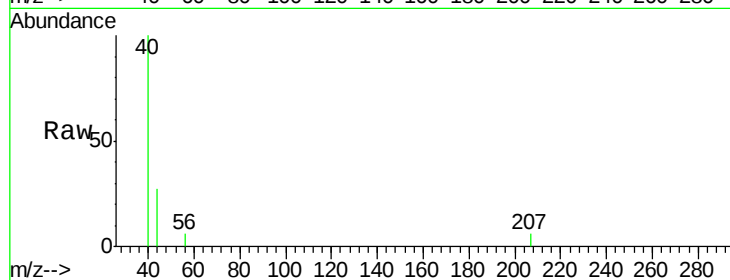
124018-ARE

Tgt Ion: 56 Resp: 74

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

3.80

200

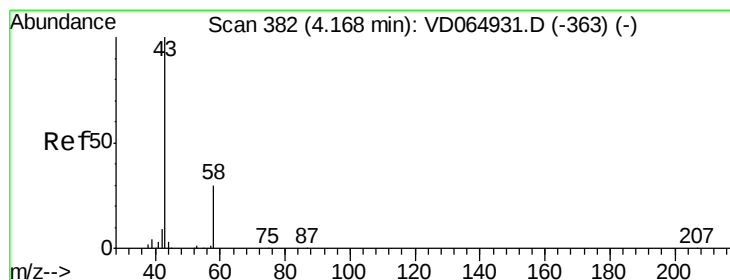
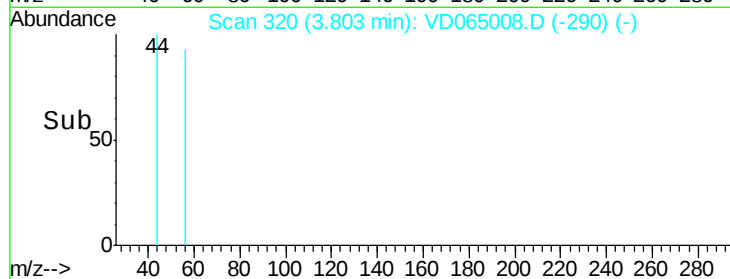
150

100

50

0

Time--> 3.78 3.79 3.80 3.81 3.82



#16

Acetone

Concen: 24.28 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.00 min

Lab File: VD065008.D

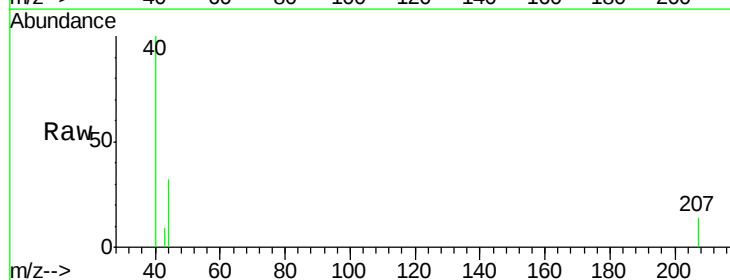
Acq: 30 Jan 2020 12:52

Tgt Ion: 43 Resp: 594

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

4.17

400

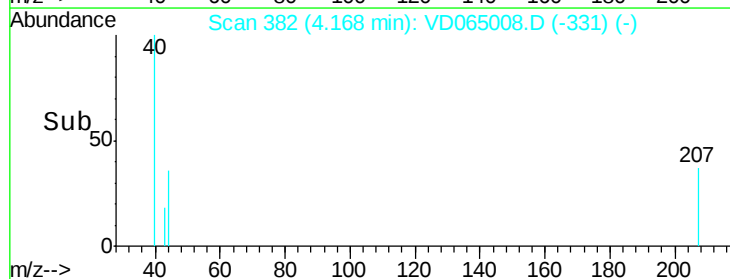
300

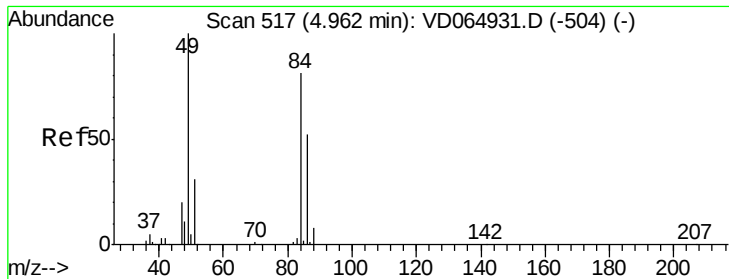
200

100

0

Time--> 4.12 4.14 4.16 4.18 4.20

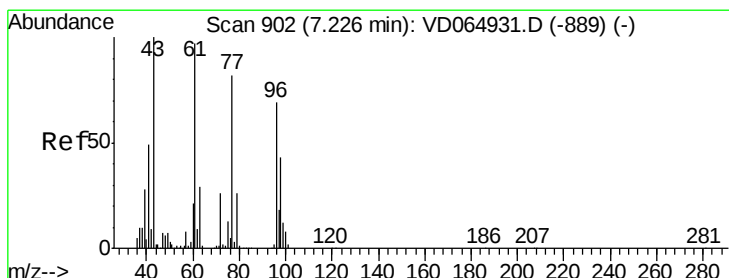
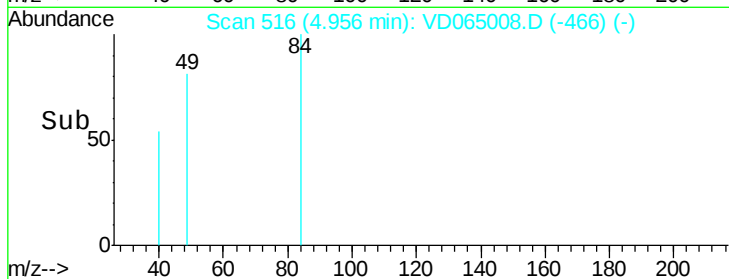
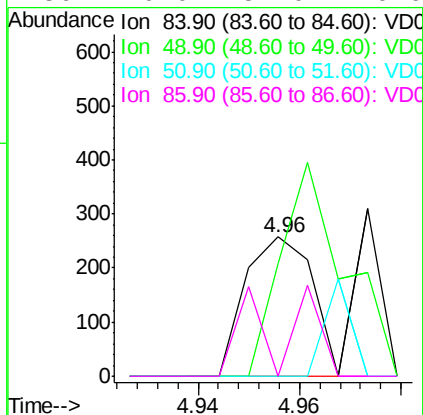
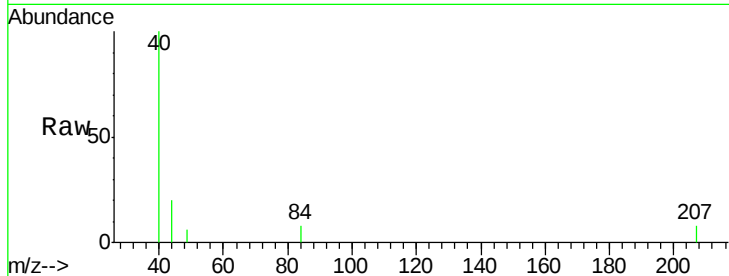




#20
Methylene Chloride
Concen: Below Cal
RT: 4.96 min Scan# 516
Delta R.T. -0.01 min
Lab File: VD065008.D
Acq: 30 Jan 2020 12:52

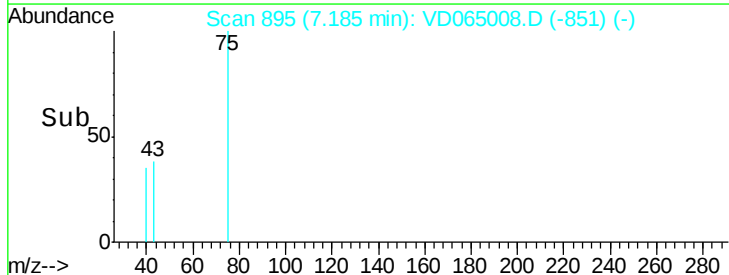
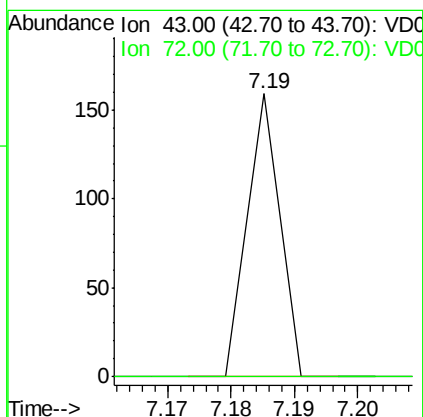
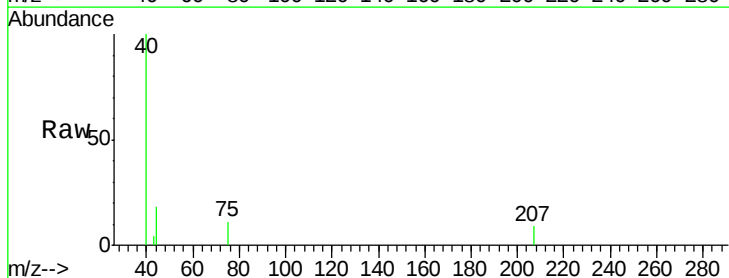
Instrument :
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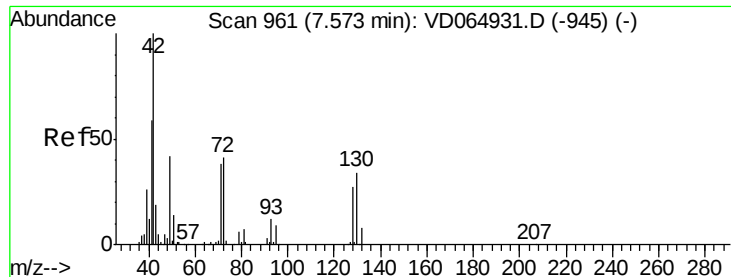
Tgt Ion: 84 Resp: 237
Ion Ratio Lower Upper
84 100
49 81.3 98.4 147.6#
51 0.0 30.8 46.2#
86 0.0 51.0 76.6#



#25
2-Butanone
Concen: 1.08 ug/l
RT: 7.19 min Scan# 895
Delta R.T. -0.04 min
Lab File: VD065008.D
Acq: 30 Jan 2020 12:52

Tgt Ion: 43 Resp: 56
Ion Ratio Lower Upper
43 100
72 0.0 20.6 31.0#

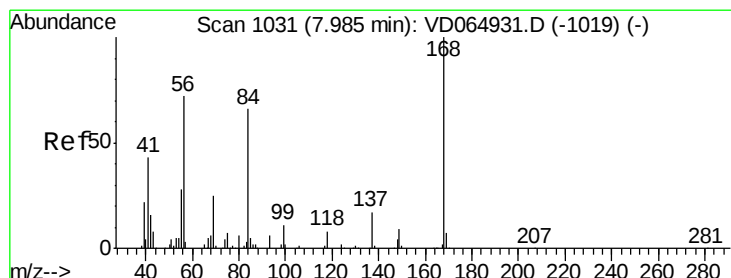
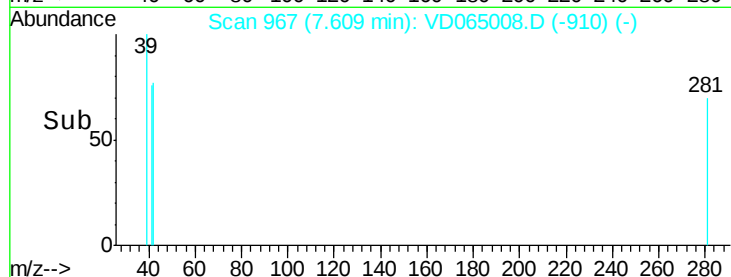
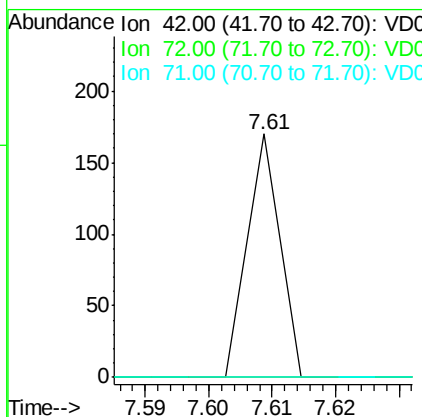
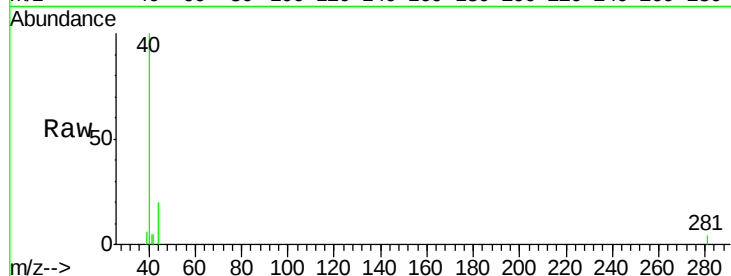




#29
Tetrahydrofuran
Concen: 1.87 ug/l
RT: 7.61 min Scan# 967
Delta R.T. 0.04 min
Lab File: VD065008.D
Acq: 30 Jan 2020 12:52

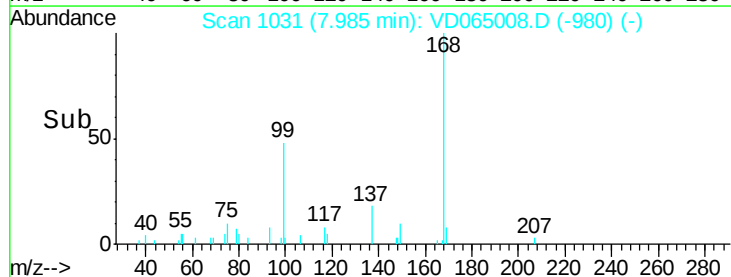
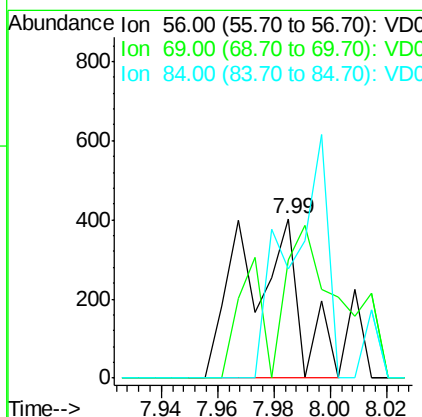
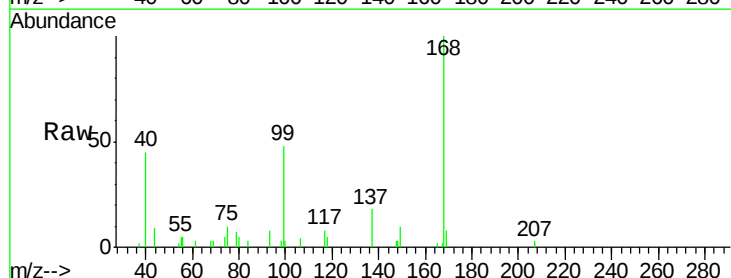
Instrument :
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ClientSampleId :
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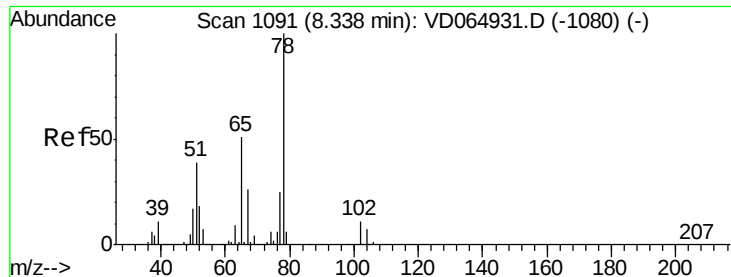
Tgt Ion: 42 Resp: 60
Ion Ratio Lower Upper
42 100
72 0.0 34.0 51.0#
71 0.0 31.5 47.3#



#31
Cyclohexane
Concen: 1.68 ug/l
RT: 7.99 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD065008.D
Acq: 30 Jan 2020 12:52

Tgt Ion: 56 Resp: 565
Ion Ratio Lower Upper
56 100
69 74.2 27.9 41.9#
84 68.5 72.8 109.2#





#33

1,2-Dichloroethane-d4

Concen: 74.34 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.00 min

Lab File: VD065008.D

Acq: 30 Jan 2020 12:52

Instrument :

MSVOA_D

ClientSampleId :

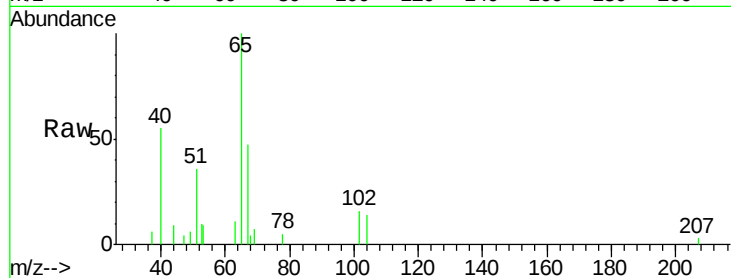
124018-ARE

Tgt Ion: 65 Resp: 14333

Ion Ratio Lower Upper

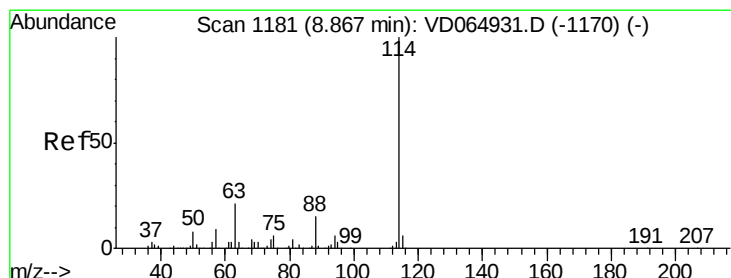
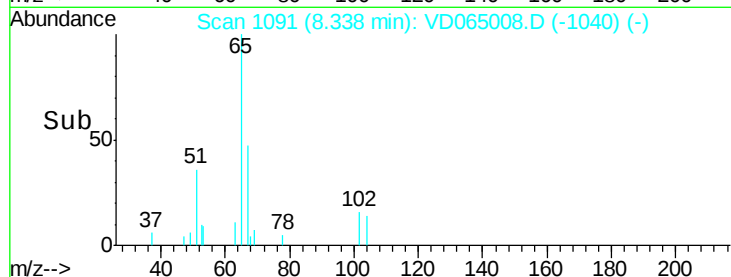
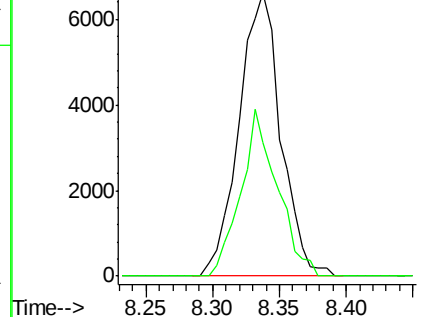
65 100

67 51.7 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: 50.00 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD065008.D

Acq: 30 Jan 2020 12:52

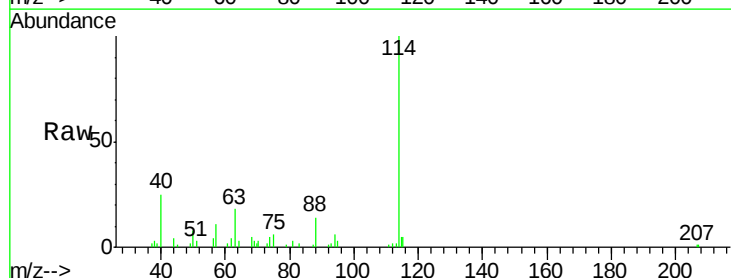
Tgt Ion: 114 Resp: 28471

Ion Ratio Lower Upper

114 100

63 18.4 0.0 42.0

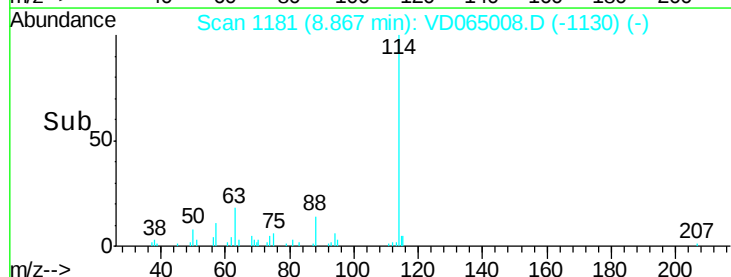
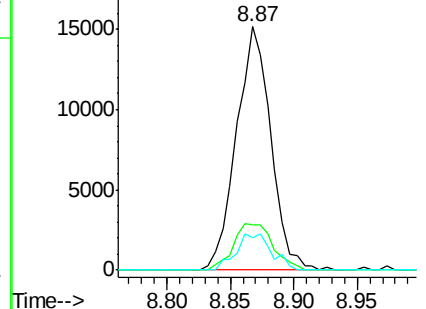
88 13.5 0.0 29.4

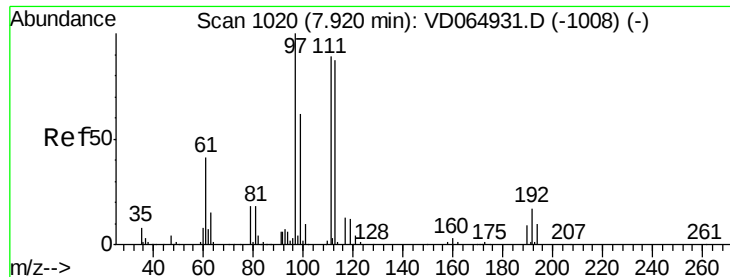


Abundance Ion 113.90 (113.60 to 114.60): VDC

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

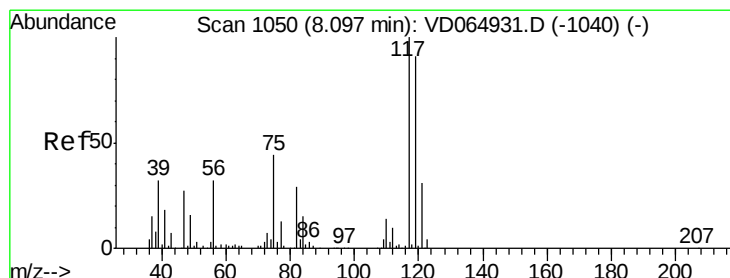
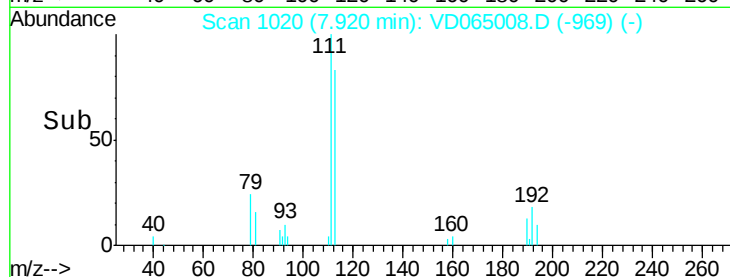
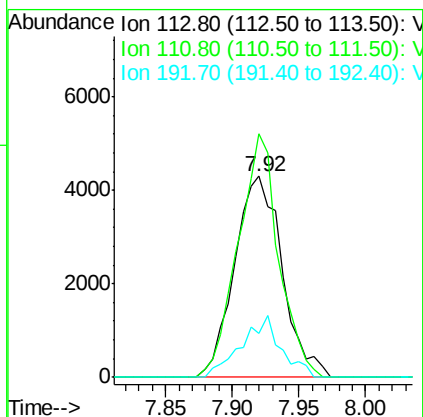
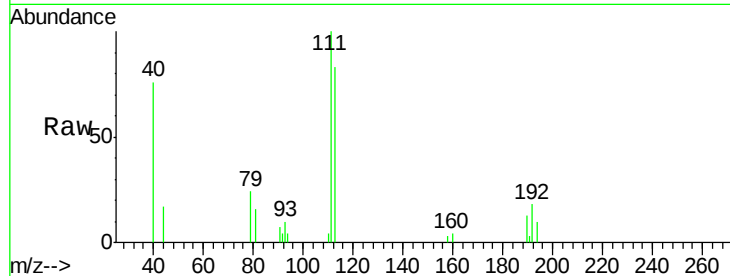




#35
Dibromofluoromethane
Concen: 59.51 ug/l
RT: 7.92 min Scan# 1020
Delta R.T. 0.00 min
Lab File: VD065008.D
Acq: 30 Jan 2020 12:52

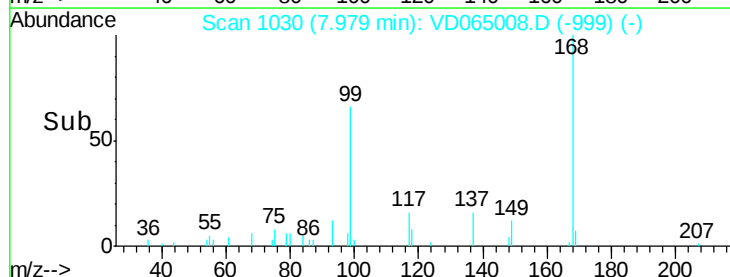
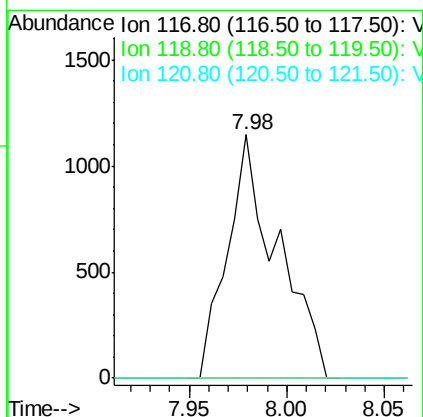
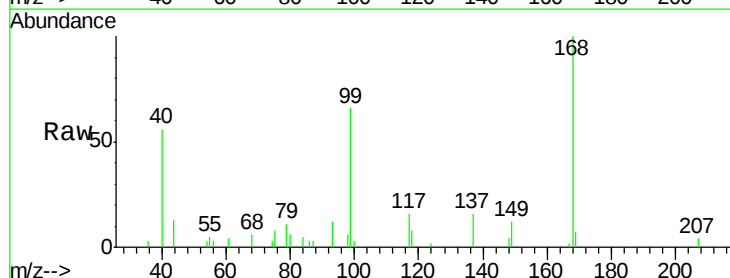
Instrument :
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124018-ARE

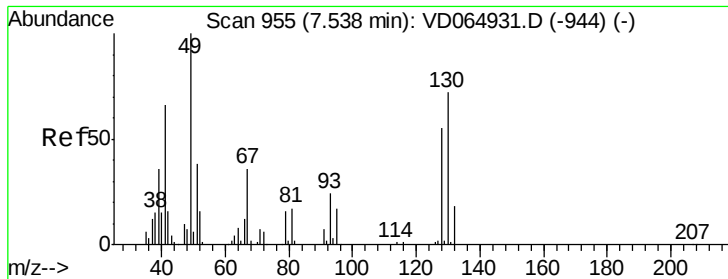
Tgt Ion:113 Resp: 10648
Ion Ratio Lower Upper
113 100
111 103.3 82.4 123.6
192 25.3 16.9 25.3



#38
Carbon Tetrachloride
Concen: 7.01 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.12 min
Lab File: VD065008.D
Acq: 30 Jan 2020 12:52

Tgt Ion:117 Resp: 2034
Ion Ratio Lower Upper
117 100
119 0.0 73.2 109.8#
121 0.0 24.4 36.6#

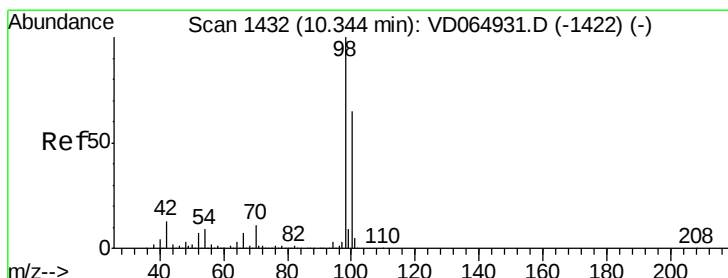
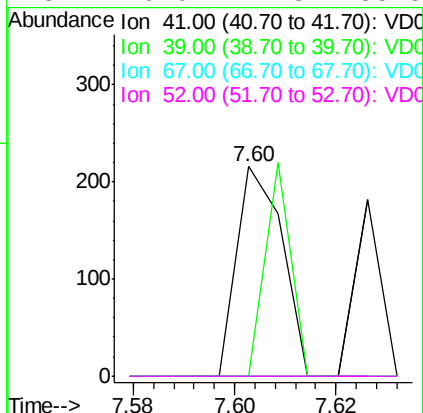
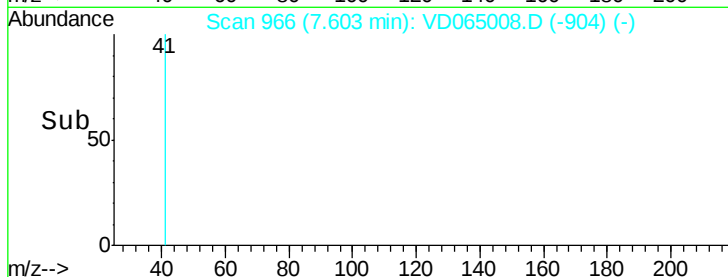
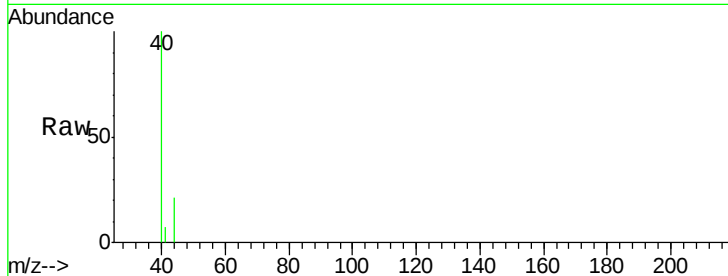




#41
Methacrylonitrile
Concen: 2.21 ug/l
RT: 7.60 min Scan# 966
Delta R.T. 0.06 min
Lab File: VD065008.D
Acq: 30 Jan 2020 12:52

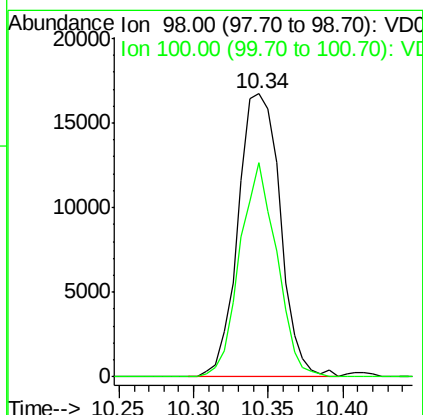
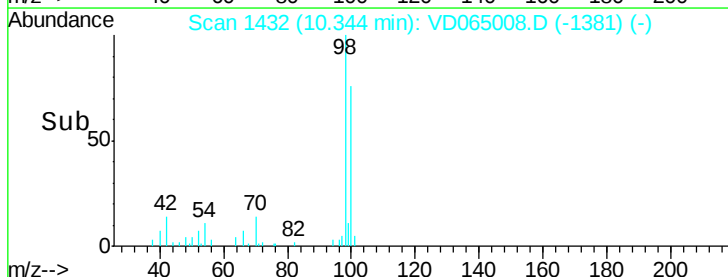
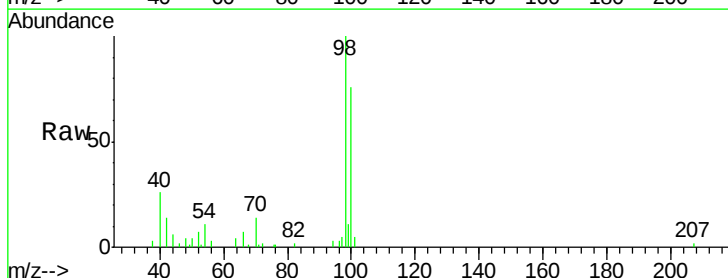
Instrument :
MSVOA_D
ClientSampleId :
124018-ARE

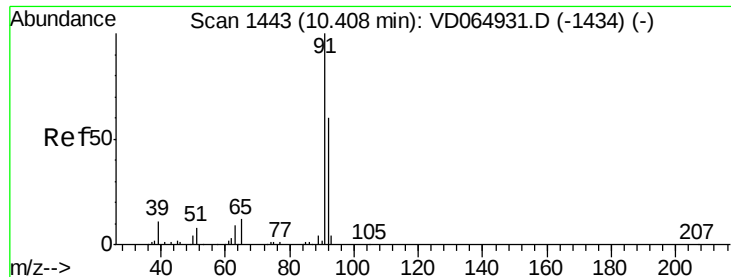
Tgt Ion: 41 Resp: 135
Ion Ratio Lower Upper
41 100
39 57.8 49.3 73.9
67 0.0 51.0 76.6#
52 0.0 22.3 33.5#



#50
Toluene-d8
Concen: 47.36 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD065008.D
Acq: 30 Jan 2020 12:52

Tgt Ion: 98 Resp: 32703
Ion Ratio Lower Upper
98 100
100 66.7 52.3 78.5





#52

Toluene

Concen: 1.69 ug/l

RT: 10.40 min Scan# 1441

Delta R.T. -0.01 min

Lab File: VD065008.D

Acq: 30 Jan 2020 12:52

Instrument :

MSVOA_D

ClientSampleId :

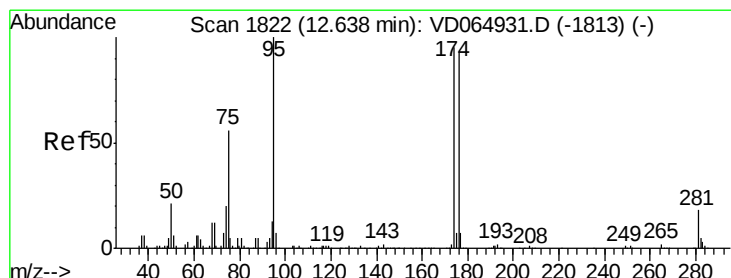
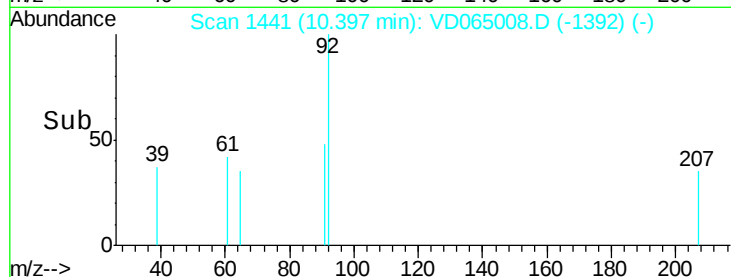
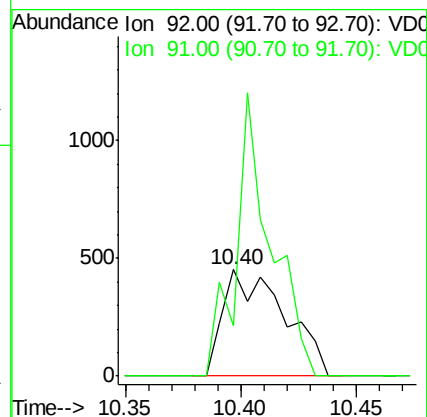
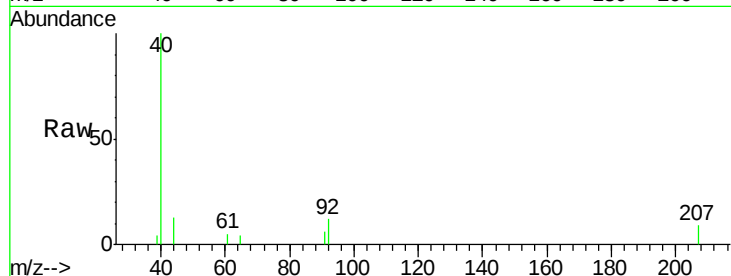
124018-ARE

Tgt Ion: 92 Resp: 826

Ion Ratio Lower Upper

92 100

91 155.6 136.8 205.2



#62

4-Bromofluorobenzene

Concen: 55.00 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. 0.01 min

Lab File: VD065008.D

Acq: 30 Jan 2020 12:52

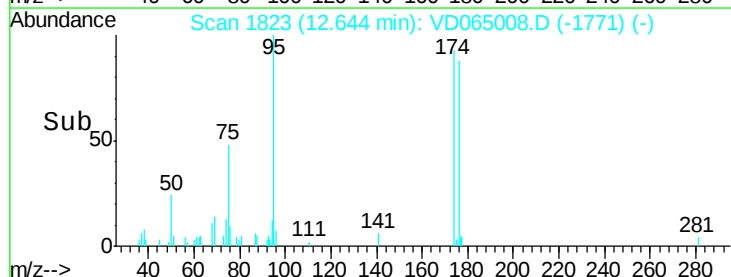
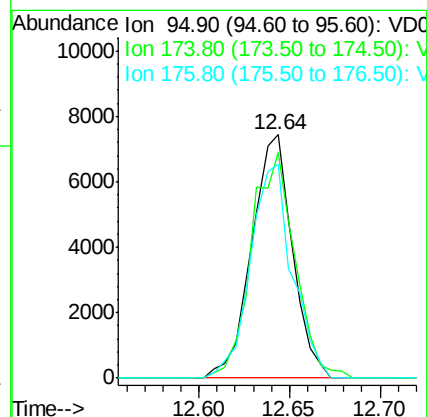
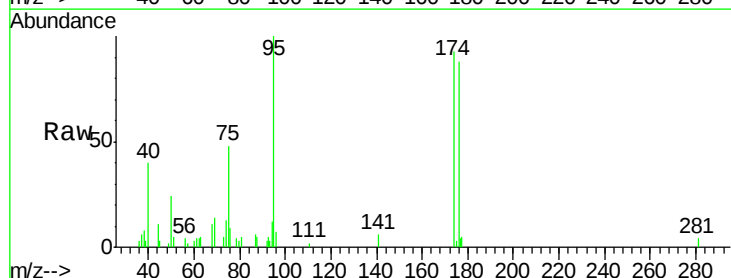
Tgt Ion: 95 Resp: 11623

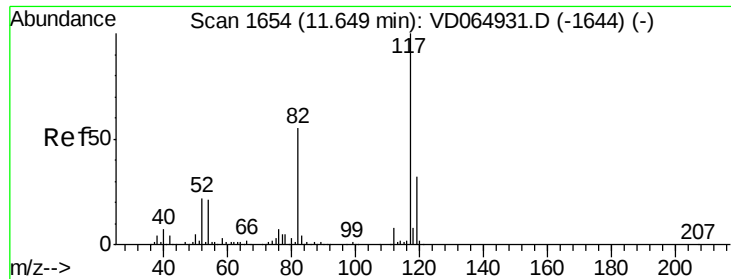
Ion Ratio Lower Upper

95 100

174 98.8 0.0 186.8

176 90.4 0.0 183.4

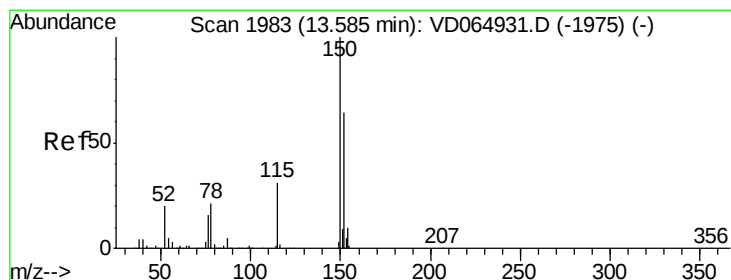
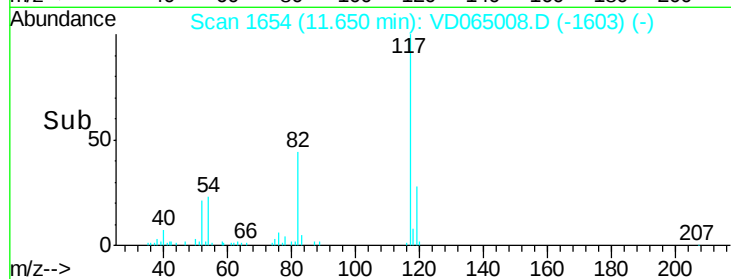
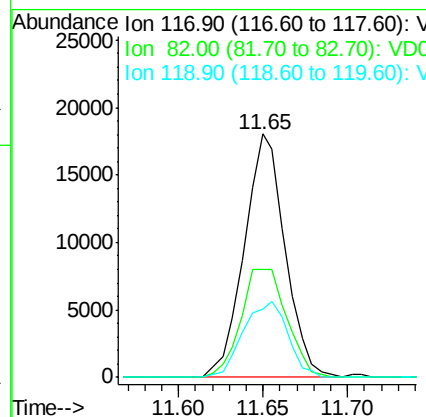
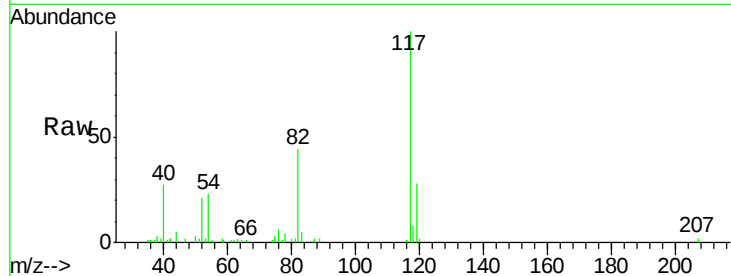




#63
 Chlorobenzene-d5
 Concen: 50.00 ug/l
 RT: 11.65 min Scan# 1654
 Delta R.T. 0.00 min
 Lab File: VD065008.D
 Acq: 30 Jan 2020 12:52

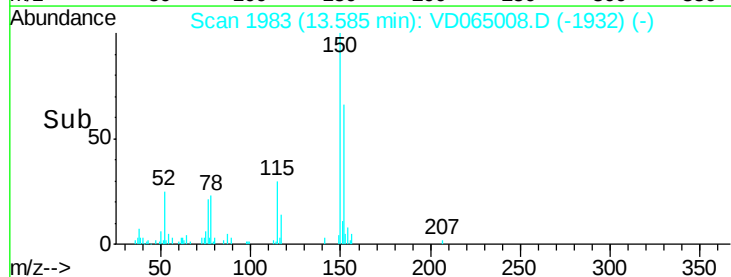
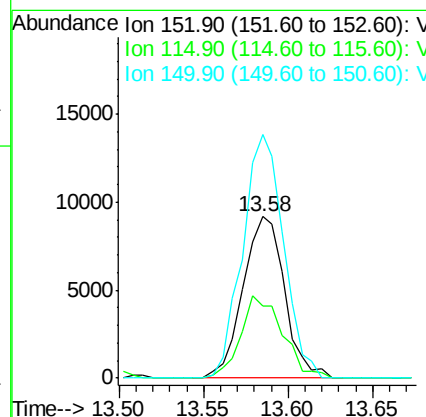
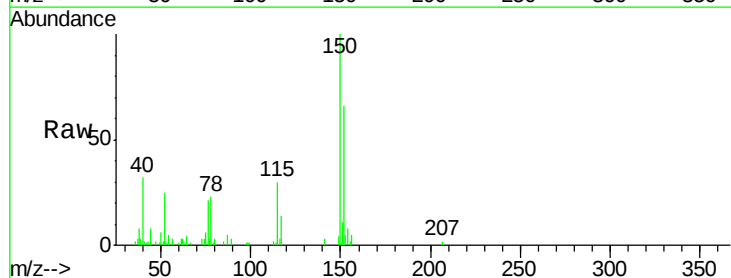
Instrument :
 MSVOA_D
 ClientSampleId :
 124018-ARE

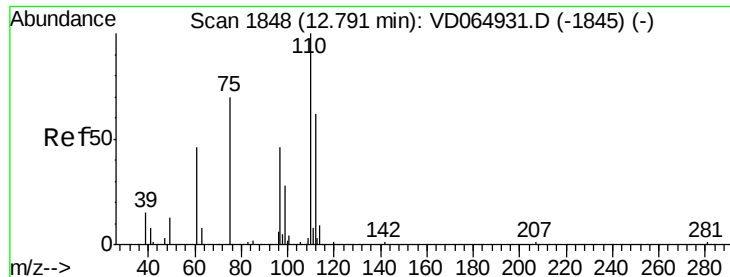
Tgt Ion	Ratio	Lower	Upper
117	100		
82	44.3	43.6	65.4
119	28.1	25.2	37.8



#72
 1,4-Dichlorobenzene-d4
 Concen: 50.00 ug/l
 RT: 13.58 min Scan# 1983
 Delta R.T. 0.00 min
 Lab File: VD065008.D
 Acq: 30 Jan 2020 12:52

Tgt Ion	Ratio	Lower	Upper
152	100		
115	51.1	28.1	84.4
150	148.5	0.0	350.4





#76

1,2,3-Trichloropropane

Concen: 49.23 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD065008.D

Acq: 30 Jan 2020 12:52

Instrument :

MSVOA_D

ClientSampleId :

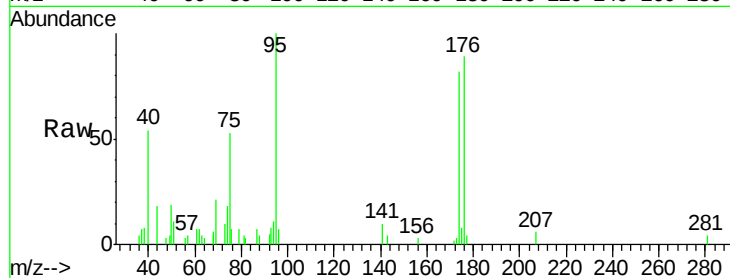
124018-ARE

Tgt Ion: 75 Resp: 6438

Ion Ratio Lower Upper

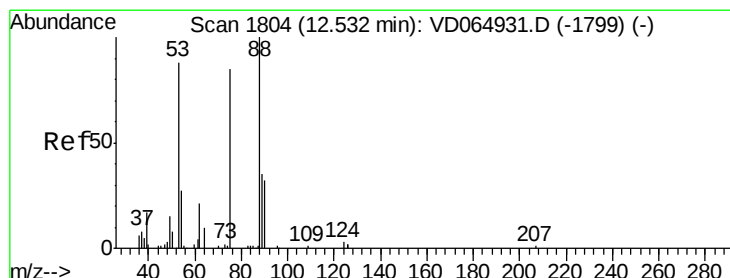
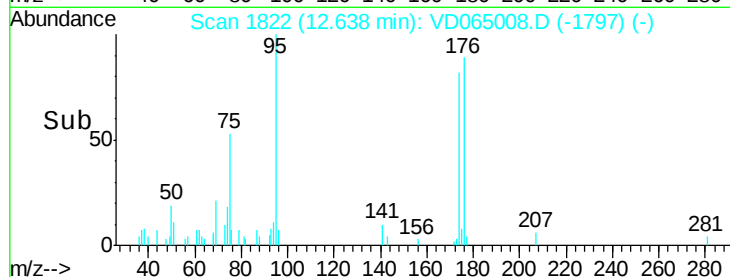
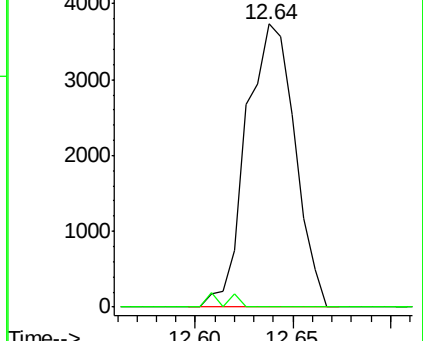
75 100

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: 105.12 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD065008.D

Acq: 30 Jan 2020 12:52

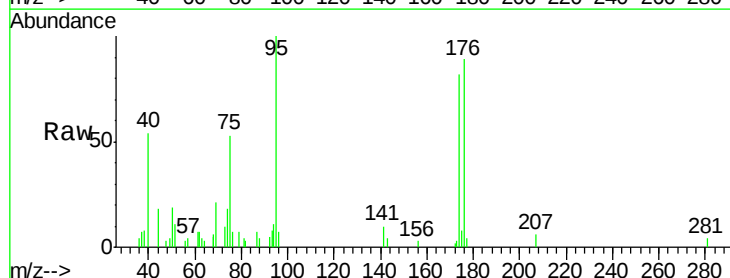
Tgt Ion: 75 Resp: 6438

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.4#

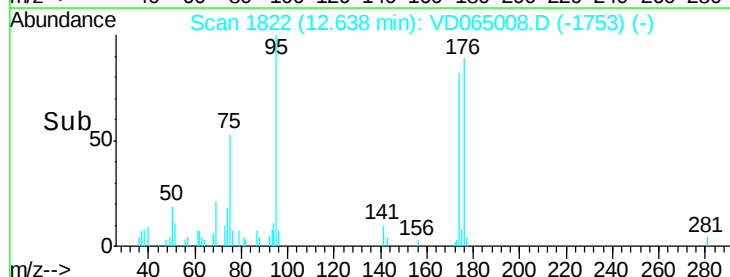
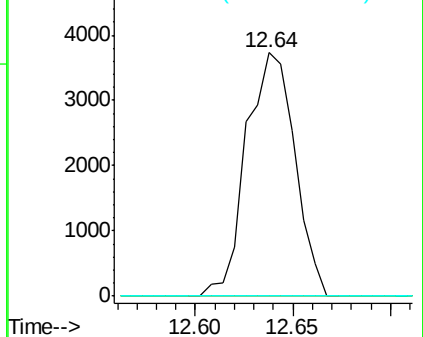
89 0.0 36.2 54.4#

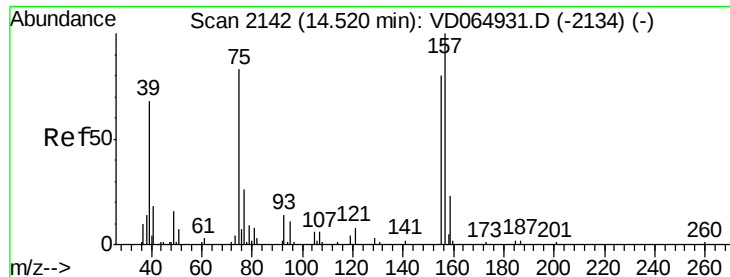


Abundance Ion 74.90 (74.60 to 75.60): VDC

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: 2.24 ug/l

RT: 14.54 min Scan# 2146

Delta R.T. 0.02 min

Lab File: VD065008.D

Acq: 30 Jan 2020 12:52

Instrument :

MSVOA_D

ClientSampleId :

124018-ARE

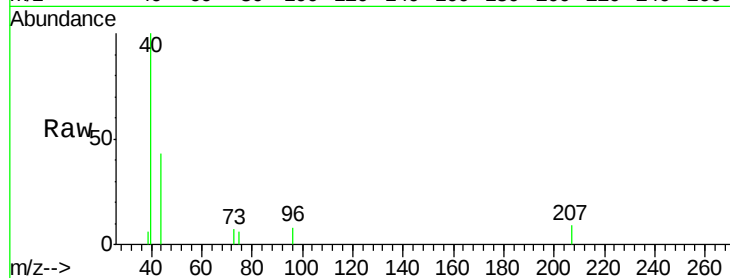
Tgt Ion: 75 Resp: 65

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): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

250

200

150

100

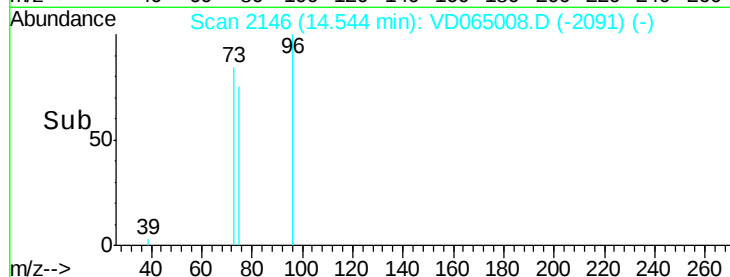
50

0

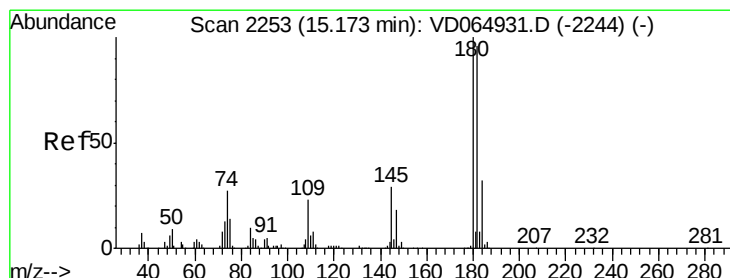
14.52

14.54

14.56



Time--> 14.52 14.54 14.56



#93

1,2,4-Trichlorobenzene

Concen: 1.92 ug/l

RT: 15.17 min Scan# 2253

Delta R.T. 0.00 min

Lab File: VD065008.D

Acq: 30 Jan 2020 12:52

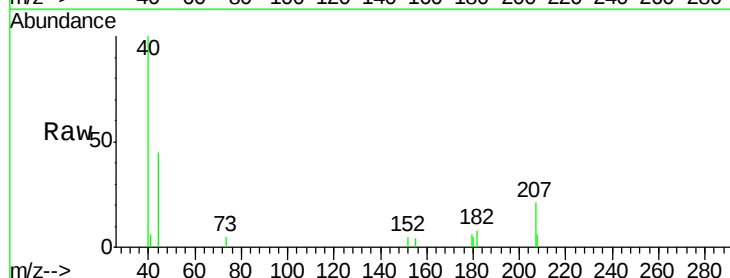
Tgt Ion: 180 Resp: 569

Ion Ratio Lower Upper

180 100

182 16.9 47.1 141.4#

145 0.0 14.1 42.3#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

500

400

300

200

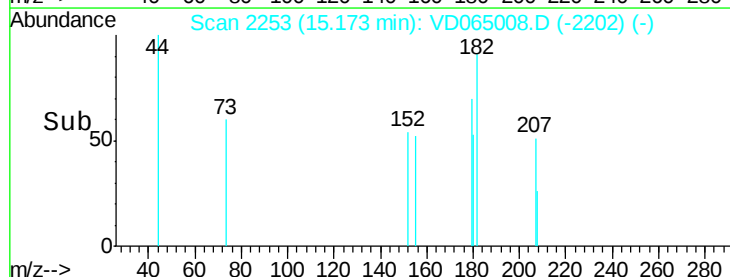
100

0

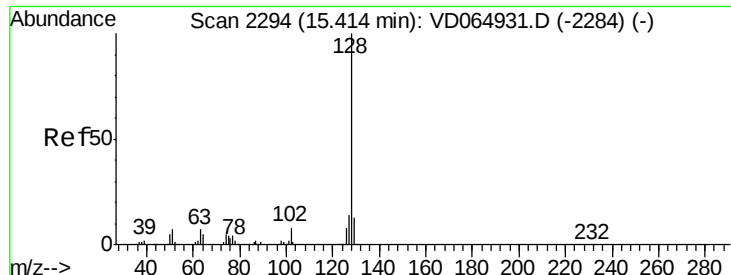
15.15

15.17

15.20



Time--> 15.15 15.17 15.20



#95

Naphthalene

Concen: 1.91 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. -0.01 min

Lab File: VD065008.D

Acq: 30 Jan 2020 12:52

Instrument :

MSVOA_D

ClientSampleId :

124018-ARE

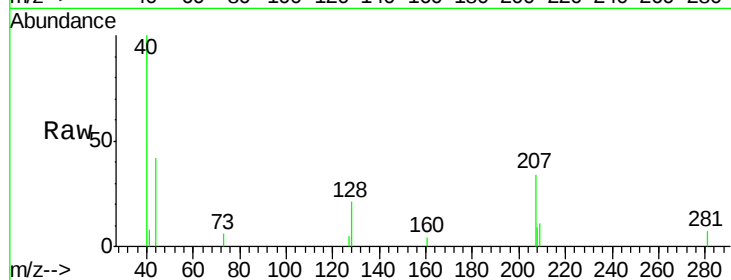
Tgt Ion:128 Resp: 917

Ion Ratio Lower Upper

128 100

127 6.9 10.6 15.8#

129 0.0 9.3 13.9#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

