

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN042820\
 Data File : VN061166.D
 Acq On : 28 Apr 2020 16:04
 Operator : JC/MD
 Sample : L2412-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB180-GW-588-590

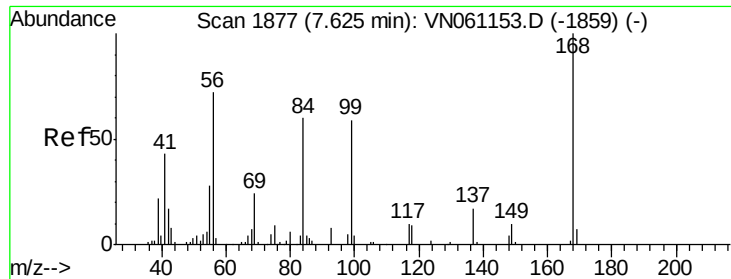
Quant Time: Apr 29 07:58:14 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 28 02:20:26 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	100126	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	179764	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	174096	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	78524	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	80984	51.12	ug/l	0.00
Spiked Amount			Recovery	=	102.24%	
35) Dibromofluoromethane	7.55	113	54473	51.25	ug/l	0.00
Spiked Amount			Recovery	=	102.50%	
50) Toluene-d8	10.06	98	224215	51.74	ug/l	0.00
Spiked Amount			Recovery	=	103.48%	
62) 4-Bromofluorobenzene	12.38	95	84898	52.06	ug/l	0.00
Spiked Amount			Recovery	=	104.12%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.83	85	700	0.659	ug/l #	43
3) Chloromethane	2.03	50	345	0.268	ug/l #	42
9) 1,1,2-Trichlorotrifluoroet	3.72	101	6426	6.053	ug/l	98
12) 1,1-Dichloroethene	3.70	96	2932	2.775	ug/l	97
16) Acetone	3.78	43	6136	4.591	ug/l	94
18) Methyl Acetate	4.27	43	31	0.694	ug/l #	55
24) 1,1-Dichloroethane	5.80	63	2357	0.993	ug/l #	84
27) cis-1,2-Dichloroethene	6.79	96	3977	2.946	ug/l	87
28) Bromochloromethane	7.33	49	453	0.403	ug/l #	20
30) Chloroform	7.33	83	6528	2.714	ug/l	96
31) Cyclohexane	7.62	56	2633	1.142	ug/l #	14
36) 1,1-Dichloropropene	7.63	75	9241	5.135	ug/l #	48
38) Carbon Tetrachloride	7.73	117	1183	0.822	ug/l	95
39) Methylcyclohexane	8.80	83	8269	5.149	ug/l #	1
42) 1,2-Dichloroethane	8.08	62	422	0.208	ug/l #	76
44) Trichloroethene	8.80	130	613190	423.096	ug/l	99
45) 1,2-Dichloropropane	8.80	63	1674	1.169	ug/l #	1
49) 1,4-Dioxane	9.16	88	141	7.862	ug/l #	19
51) 4-Methyl-2-Pentanone	10.06	43	1164	0.565	ug/l #	1
55) 1,1,2-Trichloroethane	10.54	97	2764	2.146	ug/l	97
76) 1,2,3-Trichloropropane	12.37	75	47838	28.896	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	47838	73.382	ug/l #	8

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VN061166.D

Acq: 28 Apr 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

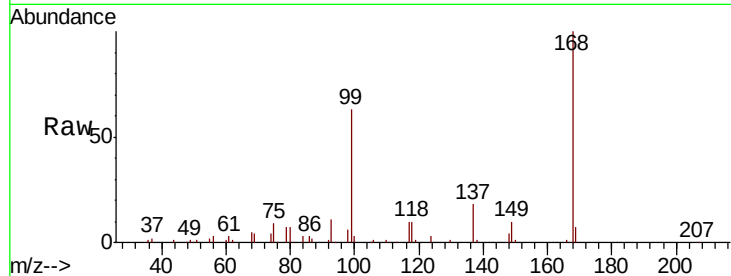
BP-VPB180-GW-588-590

Tot Ion:168 Resp: 100126

Ion Ratio Lower Upper

168 100

99 62.8 51.2 76.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63

40000

30000

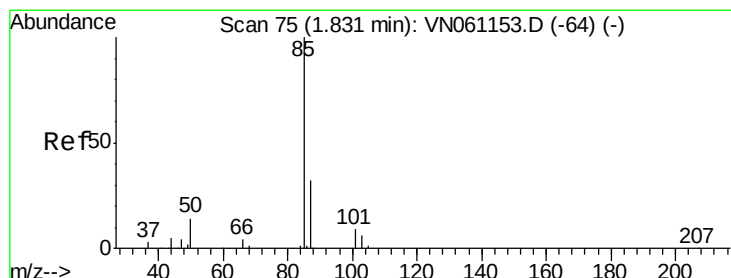
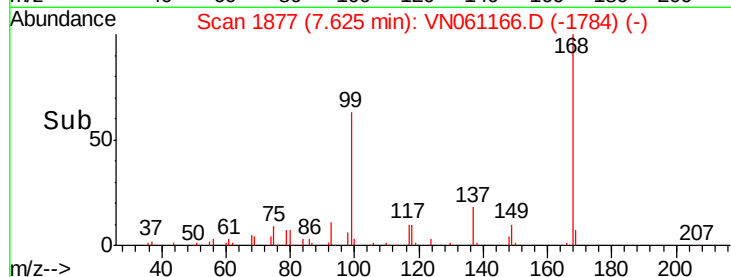
20000

10000

0

7.55 7.60 7.65 7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 0.659 ug/l

RT: 1.83 min Scan# 74

Delta R.T. -0.00 min

Lab File: VN061166.D

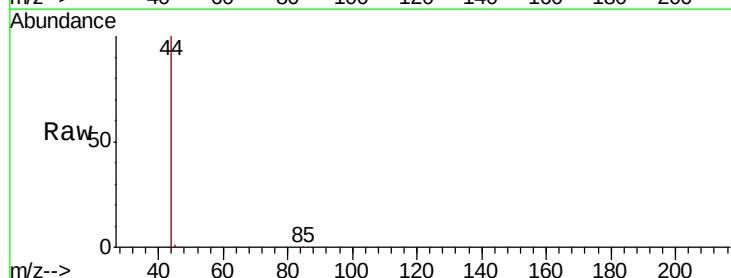
Acq: 28 Apr 2020 16:04

Tgt Ion: 85 Resp: 700

Ion Ratio Lower Upper

85 100

87 0.0 16.1 48.2#



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0

1.83

600

500

400

300

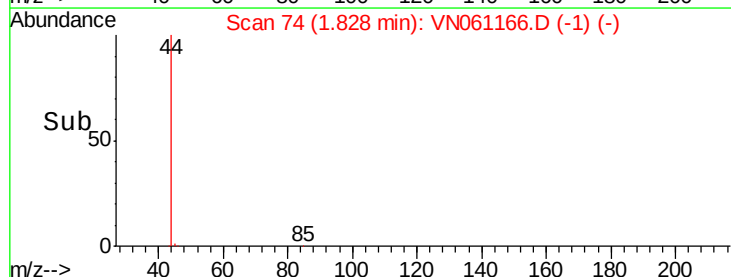
200

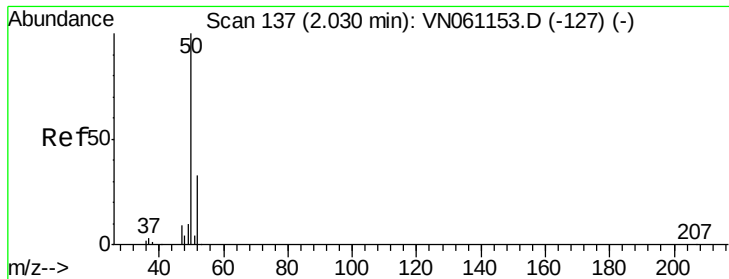
100

0

1.80 1.82 1.84 1.86

Time-->





#3

Chloromethane

Concen: 0.268 ug/l

RT: 2.03 min Scan# 138

Delta R.T. 0.00 min

Lab File: VN061166.D

Acq: 28 Apr 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

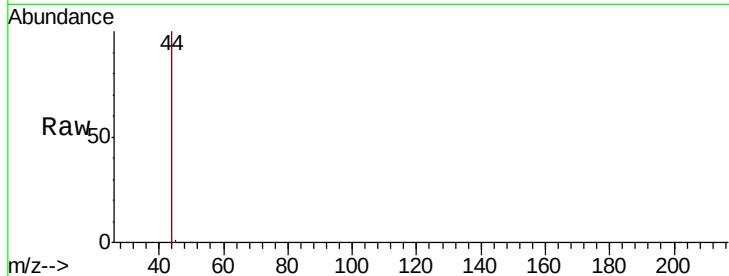
BP-VPB180-GW-588-590

Tot Ion: 50 Resp: 345

Ion Ratio Lower Upper

50 100

52 0.0 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.03

300

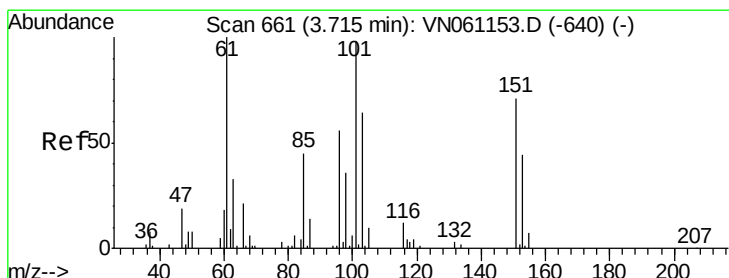
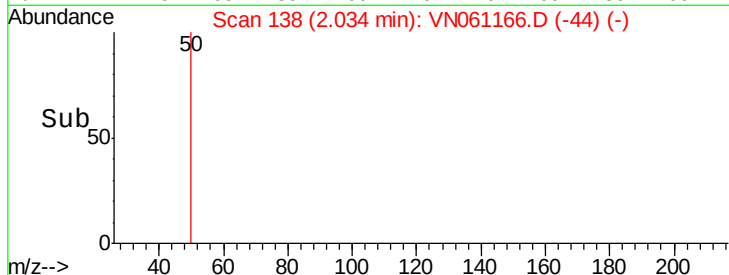
200

100

0

2.02 2.04 2.06

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 6.053 ug/l

RT: 3.72 min Scan# 662

Delta R.T. 0.00 min

Lab File: VN061166.D

Acq: 28 Apr 2020 16:04

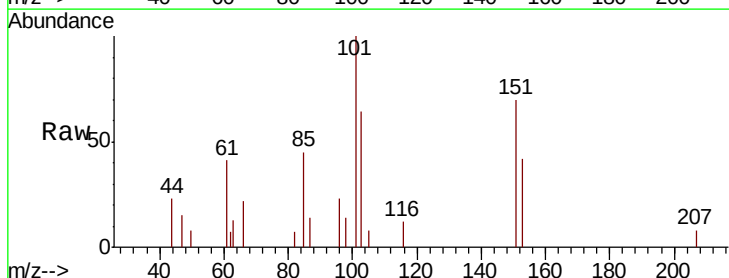
Tgt Ion:101 Resp: 6426

Ion Ratio Lower Upper

101 100

85 46.1 37.2 55.8

151 74.4 57.7 86.5



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN0

Ion 150.80 (150.50 to 151.50): V

3000

2500

2000

1500

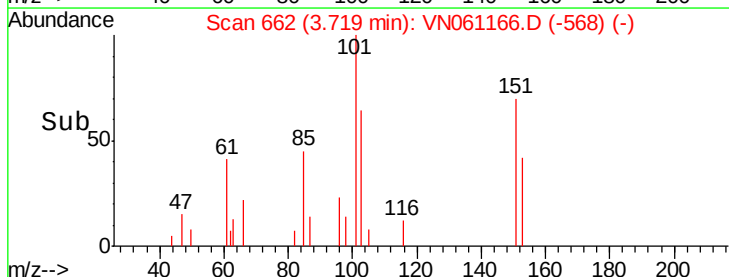
1000

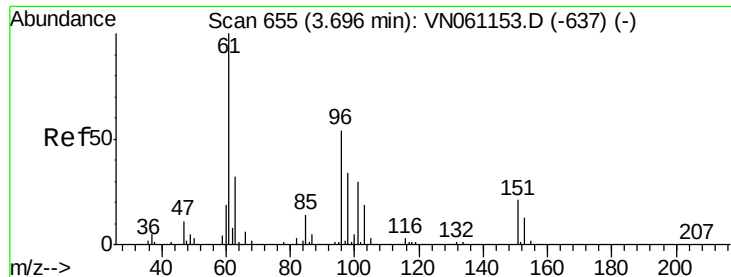
500

0

3.65 3.70 3.75 3.80

Time-->





#12

1,1-Dichloroethene

Concen: 2.775 ug/l

RT: 3.70 min Scan# 656

Delta R.T. 0.00 min

Lab File: VN061166.D

Acq: 28 Apr 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB180-GW-588-590

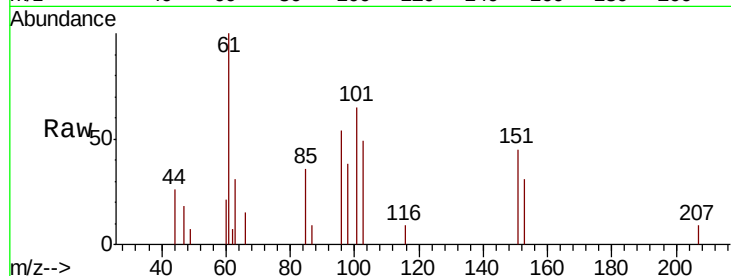
Tot Ion: 96 Resp: 2932

Ion Ratio Lower Upper

96 100

61 184.4 147.0 220.6

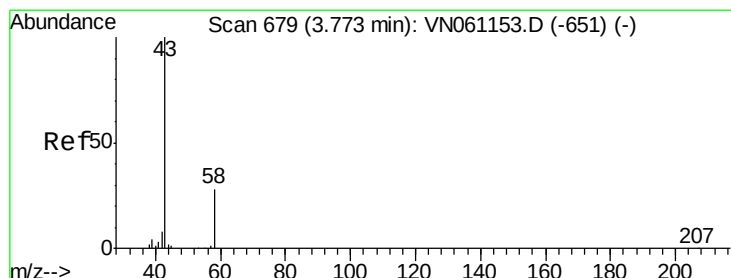
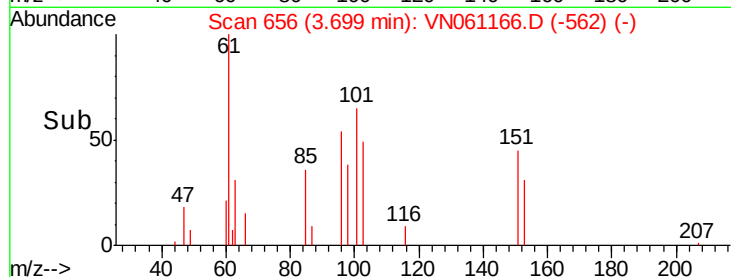
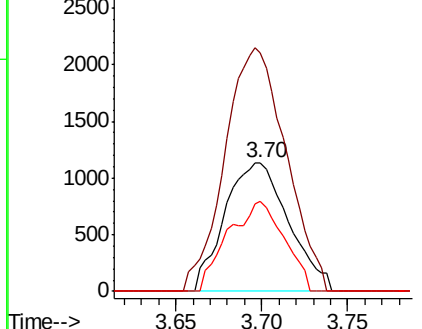
98 70.1 49.8 74.6



Abundance Ion 95.90 (95.60 to 96.60): VN061153.D (-637) (-)

Ion 60.90 (60.60 to 61.60): VN061153.D (-637) (-)

Ion 97.90 (97.60 to 98.60): VN061153.D (-637) (-)



#16

Acetone

Concen: 4.591 ug/l

RT: 3.78 min Scan# 681

Delta R.T. 0.01 min

Lab File: VN061166.D

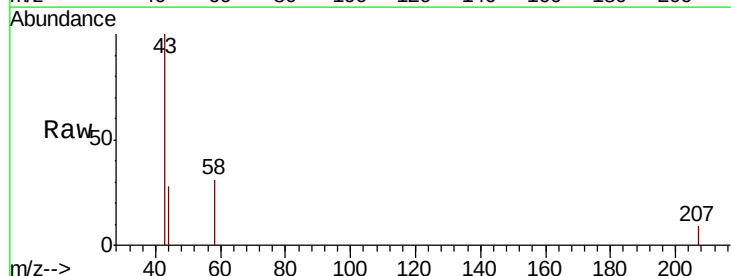
Acq: 28 Apr 2020 16:04

Tgt Ion: 43 Resp: 6136

Ion Ratio Lower Upper

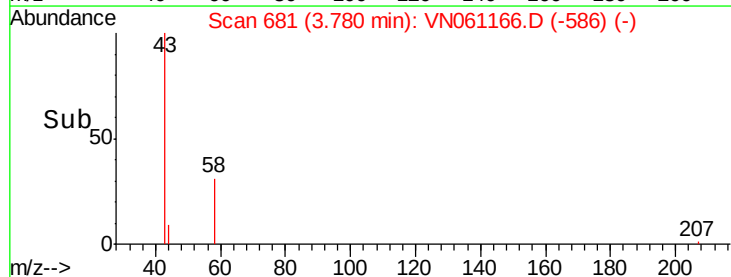
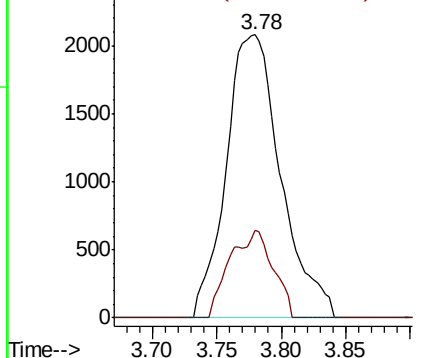
43 100

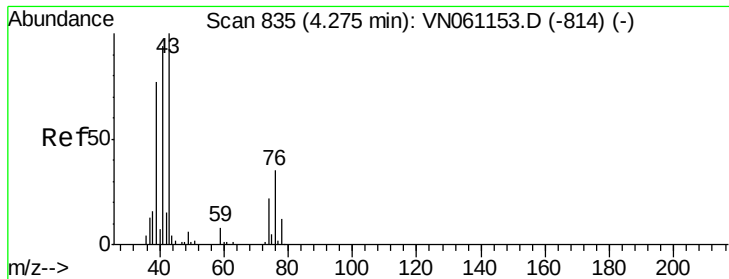
58 31.0 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN061153.D (-651) (-)

Ion 58.00 (57.70 to 58.70): VN061153.D (-651) (-)





#18

Methyl Acetate

Concen: 0.694 ug/l

RT: 4.27 min Scan# 834

Delta R.T. -0.00 min

Lab File: VN061166.D

Acq: 28 Apr 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

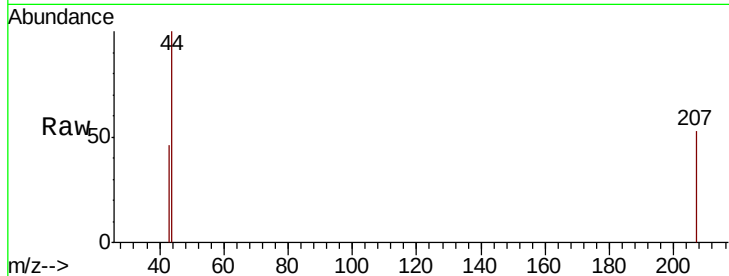
BP-VPB180-GW-588-590

Tot Ion: 43 Resp: 31

Ion Ratio Lower Upper

43 100

74 0.0 17.0 25.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.27

150

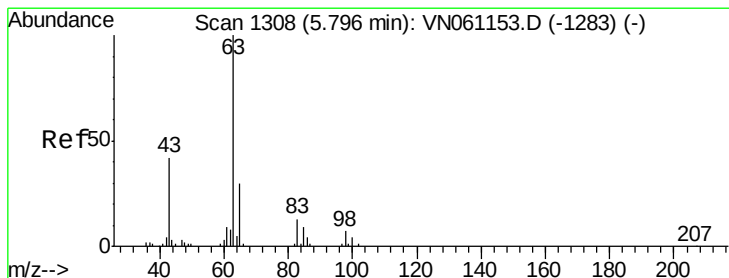
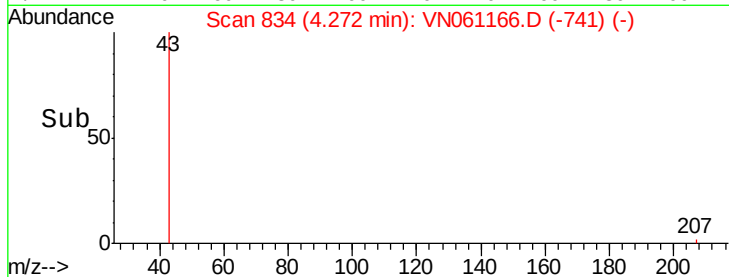
100

50

0

4.26 4.26 4.27 4.28 4.28

Time-->



#24

1,1-Dichloroethane

Concen: 0.993 ug/l

RT: 5.80 min Scan# 1309

Delta R.T. 0.00 min

Lab File: VN061166.D

Acq: 28 Apr 2020 16:04

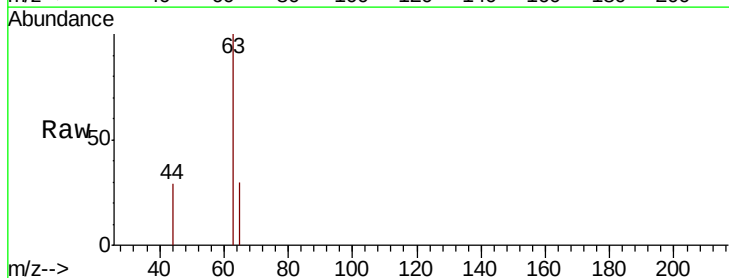
Tgt Ion: 63 Resp: 2357

Ion Ratio Lower Upper

63 100

98 0.0 3.3 9.9#

100 0.0 1.9 5.7#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0

1000

800

600

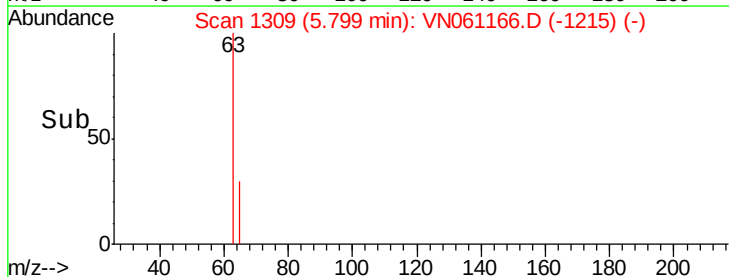
400

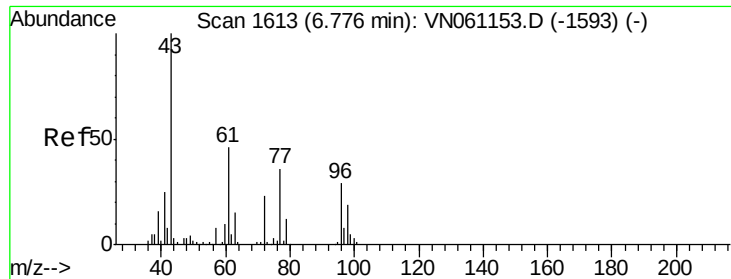
200

0

5.75 5.80 5.85

Time-->





#27

cis-1,2-Dichloroethene

Concen: 2.946 ug/l

RT: 6.79 min Scan# 1616

Delta R.T. 0.01 min

Lab File: VN061166.D

Acq: 28 Apr 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB180-GW-588-590

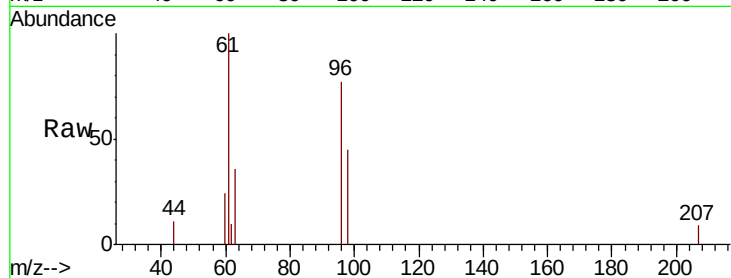
Tot Ion: 96 Resp: 3977

Ion Ratio Lower Upper

96 100

61 139.9 0.0 322.0

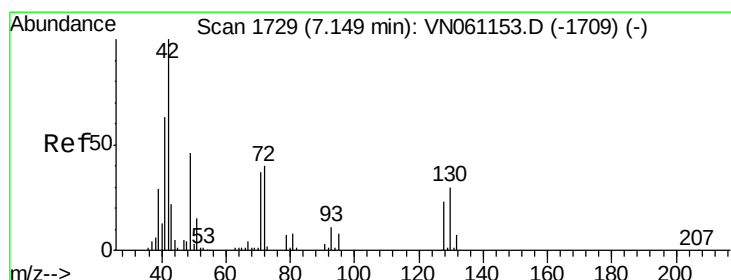
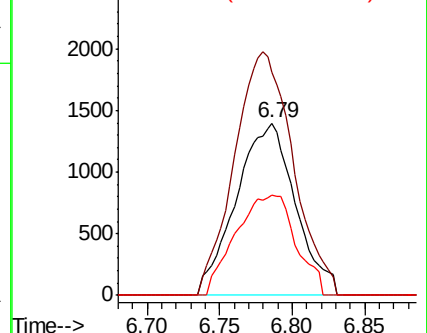
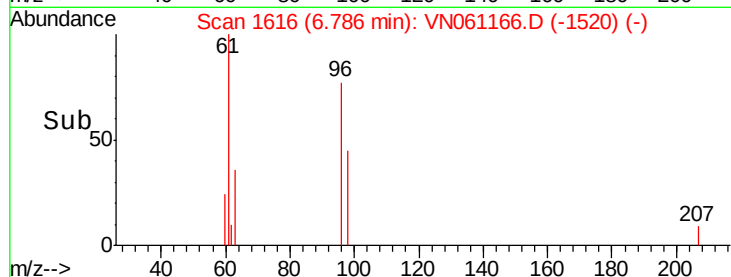
98 59.0 0.0 129.6



Abundance Ion 95.90 (95.60 to 96.60): VN061166.D (-1520) (-)

Ion 60.90 (60.60 to 61.60): VN061166.D (-1520) (-)

Ion 97.90 (97.60 to 98.60): VN061166.D (-1520) (-)



#28

Bromochloromethane

Concen: 0.403 ug/l

RT: 7.33 min Scan# 1785

Delta R.T. 0.18 min

Lab File: VN061166.D

Acq: 28 Apr 2020 16:04

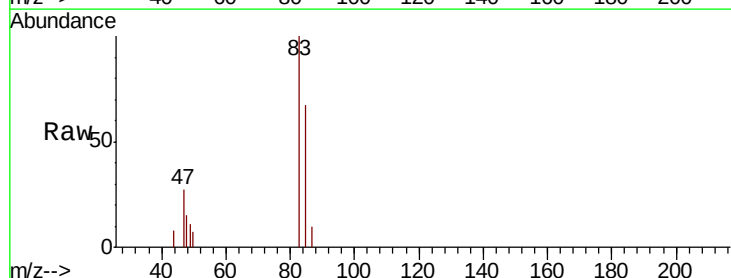
Tgt Ion: 49 Resp: 453

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.0

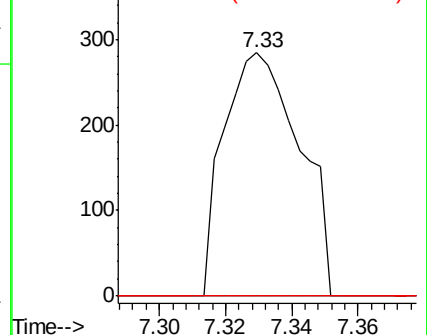
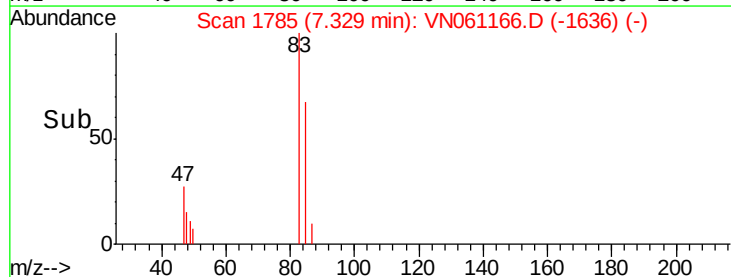
130 0.0 51.4 77.2#

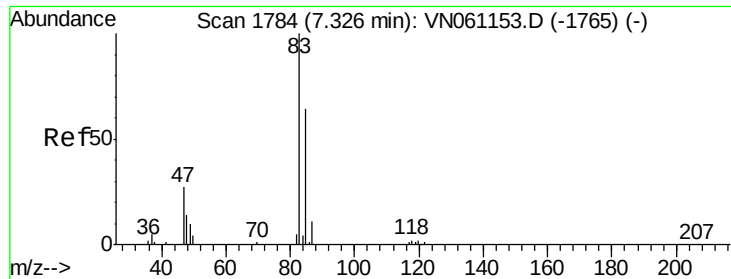


Abundance Ion 48.90 (48.60 to 49.60): VN061166.D (-1636) (-)

Ion 128.80 (128.50 to 129.50): VN061166.D (-1636) (-)

Ion 129.80 (129.50 to 130.50): VN061166.D (-1636) (-)

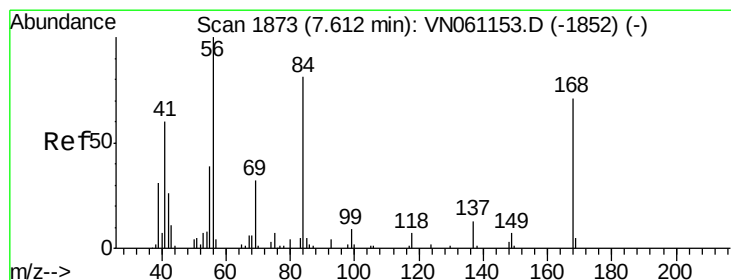
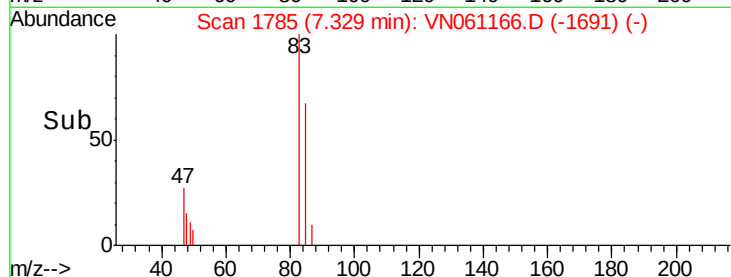
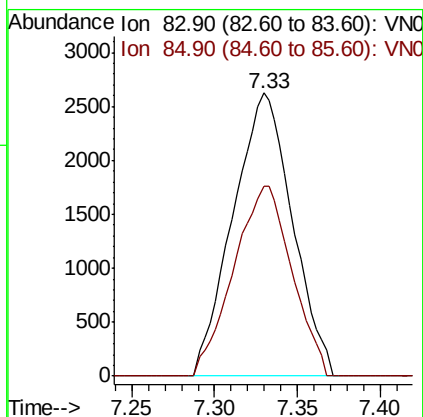
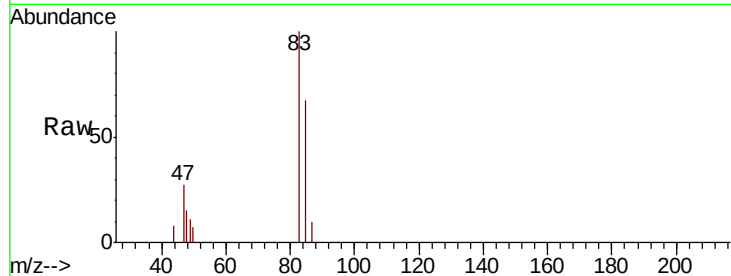




#30
Chloroform
Concen: 2.714 ug/l
RT: 7.33 min Scan# 1785
Delta R.T. 0.00 min
Lab File: VN061166.D
Acq: 28 Apr 2020 16:04

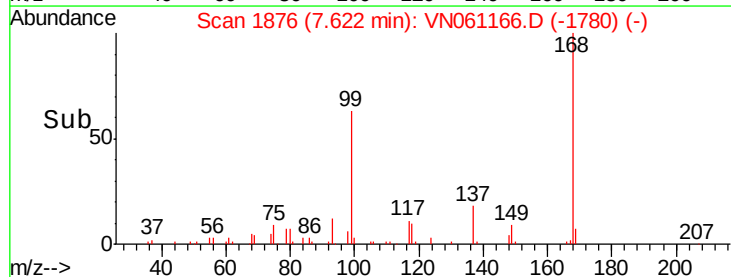
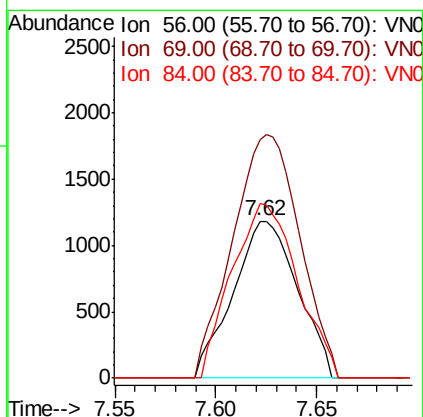
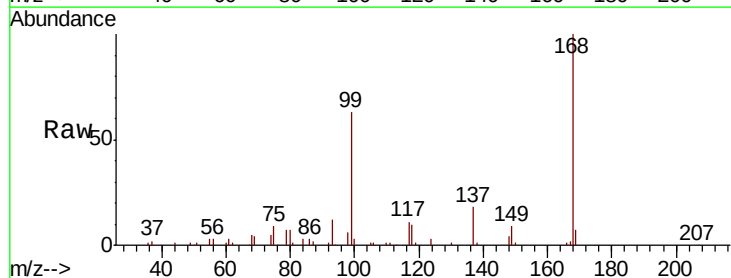
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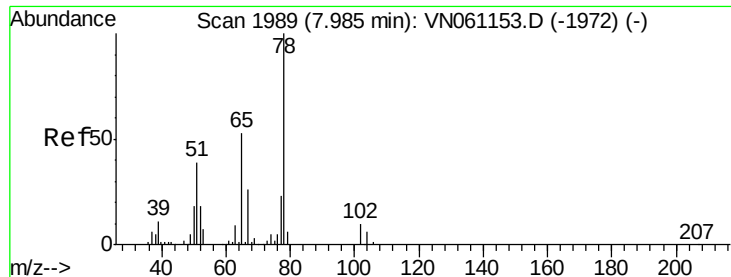
Tot Ion: 83 Resp: 6528
Ion Ratio Lower Upper
83 100
85 66.9 51.1 76.7



#31
Cyclohexane
Concen: 1.142 ug/l
RT: 7.62 min Scan# 1876
Delta R.T. 0.01 min
Lab File: VN061166.D
Acq: 28 Apr 2020 16:04

Tgt Ion: 56 Resp: 2633
Ion Ratio Lower Upper
56 100
69 151.8 25.7 38.5#
84 111.3 64.6 97.0#

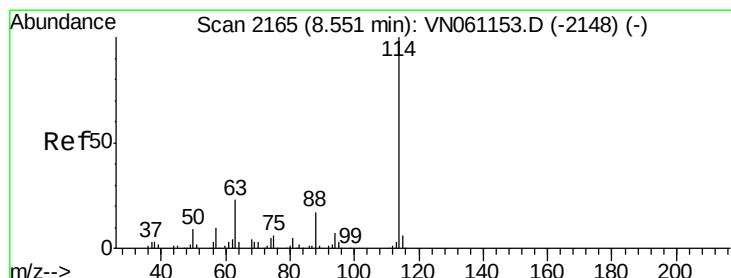
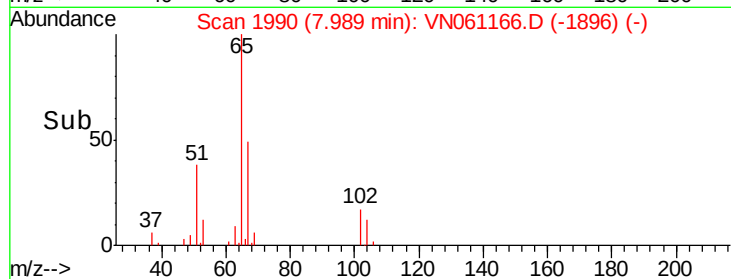
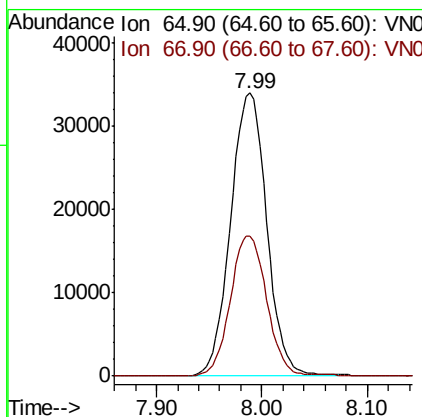
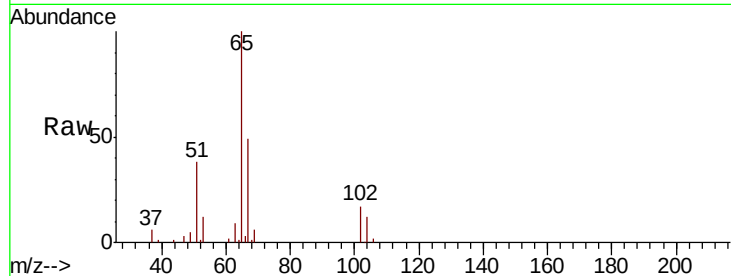




#33
 1,2-Dichloroethane-d4
 Concen: 51.116 ug/l
 RT: 7.99 min Scan# 1990
 Delta R.T. 0.00 min
 Lab File: VN061166.D
 Acq: 28 Apr 2020 16:04

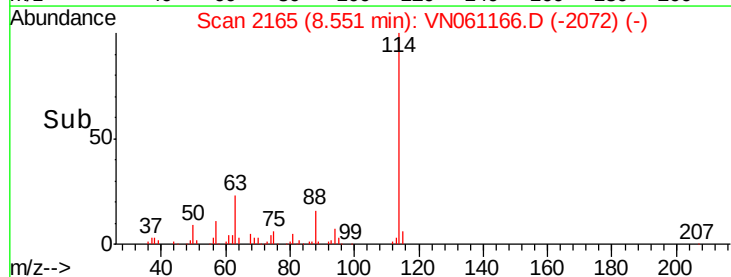
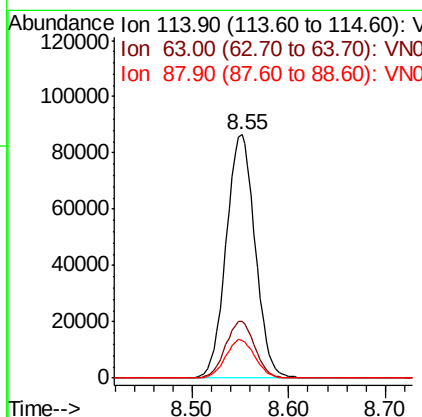
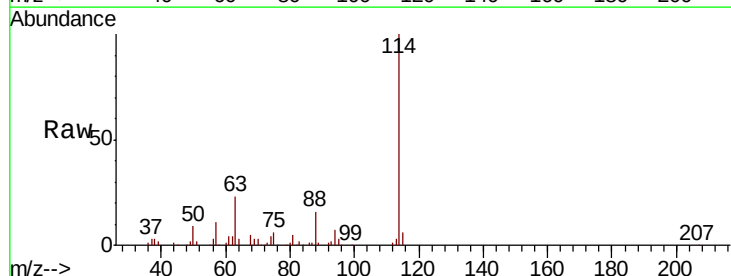
Instrument :
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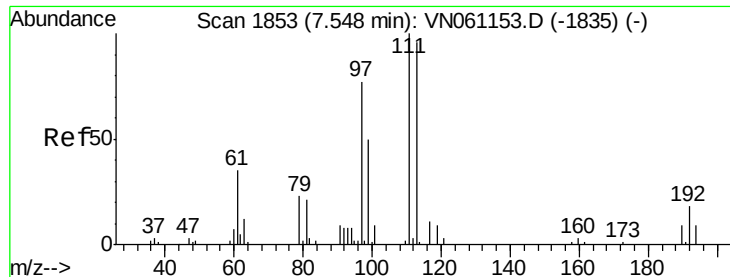
Tot Ion: 65 Resp: 80984
 Ion Ratio Lower Upper
 65 100
 67 49.9 0.0 101.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2165
 Delta R.T. 0.00 min
 Lab File: VN061166.D
 Acq: 28 Apr 2020 16:04

Tgt Ion: 114 Resp: 179764
 Ion Ratio Lower Upper
 114 100
 63 23.3 0.0 46.6
 88 15.6 0.0 33.4

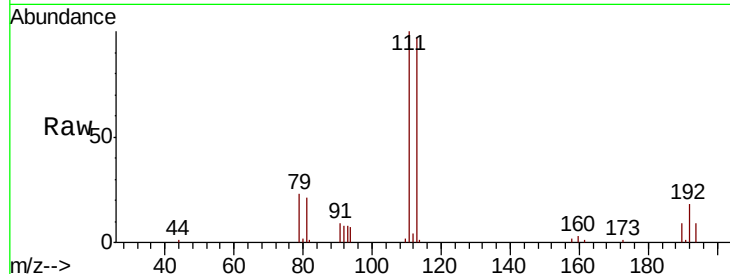




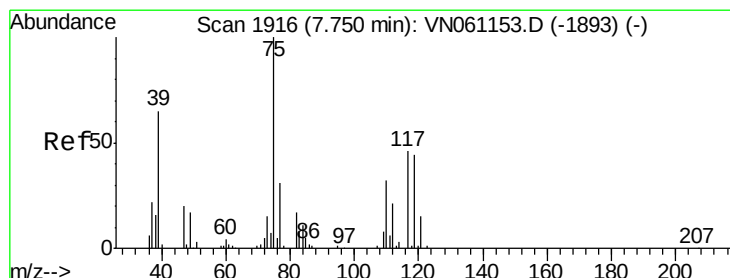
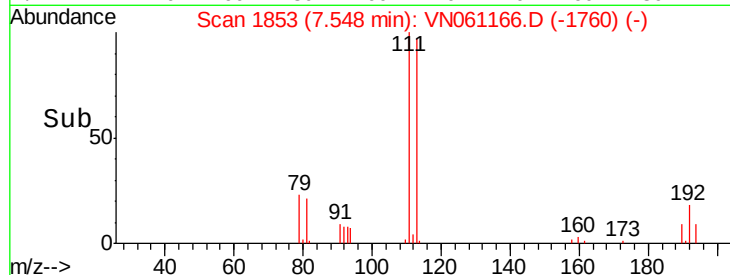
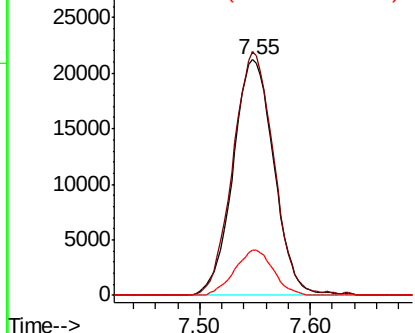
#35
Dibromofluoromethane
Concen: 51.245 ug/l
RT: 7.55 min Scan# 1853
Delta R.T. 0.00 min
Lab File: VN061166.D
Acq: 28 Apr 2020 16:04

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB180-GW-588-590

Tot Ion:113 Resp: 54473
Ion Ratio Lower Upper
113 100
111 102.7 82.9 124.3
192 18.2 14.7 22.1

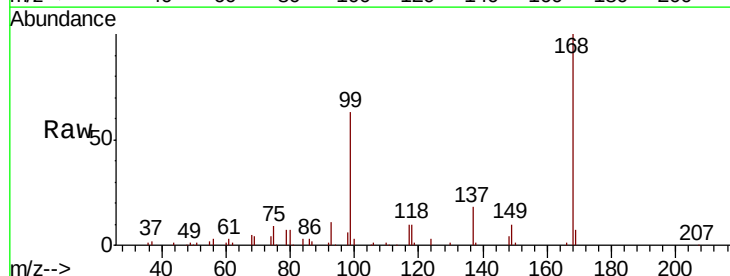


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

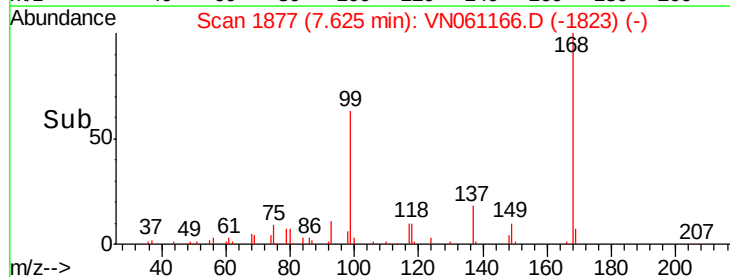
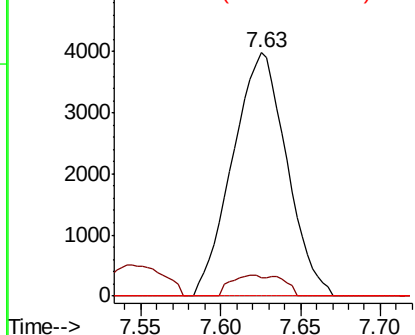


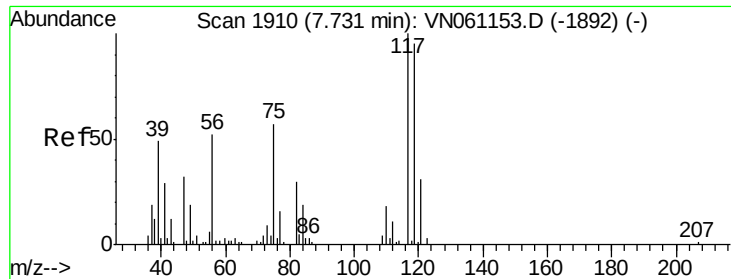
#36
1,1-Dichloropropene
Concen: 5.135 ug/l
RT: 7.63 min Scan# 1877
Delta R.T. -0.13 min
Lab File: VN061166.D
Acq: 28 Apr 2020 16:04

Tgt Ion: 75 Resp: 9241
Ion Ratio Lower Upper
75 100
110 4.8 16.0 48.0#
77 0.0 24.6 37.0#



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

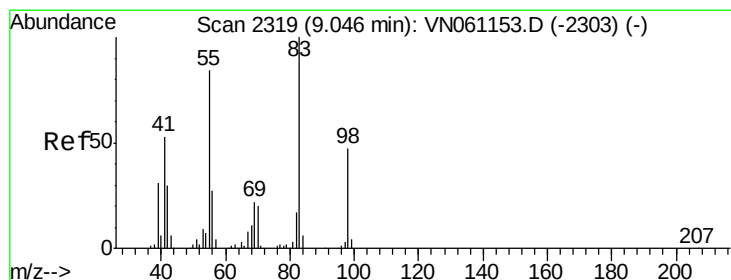
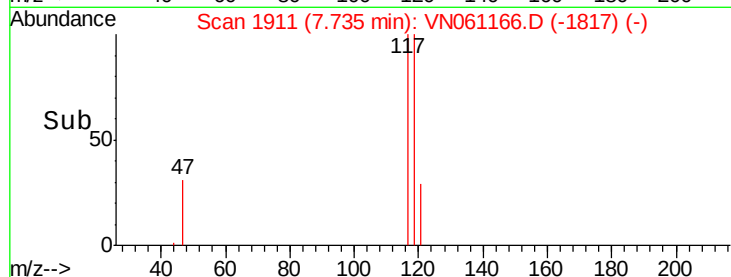
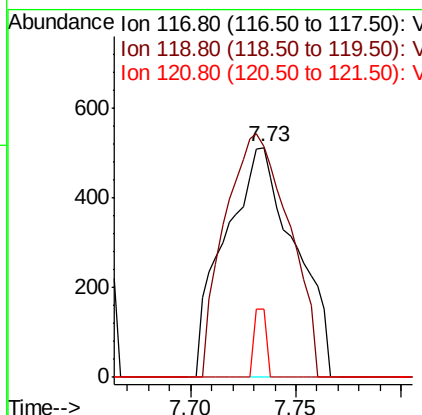
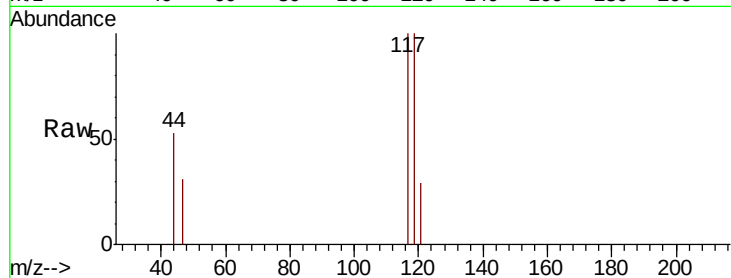




#38
Carbon Tetrachloride
Concen: 0.822 ug/l
RT: 7.73 min Scan# 1911
Delta R.T. 0.00 min
Lab File: VN061166.D
Acq: 28 Apr 2020 16:04

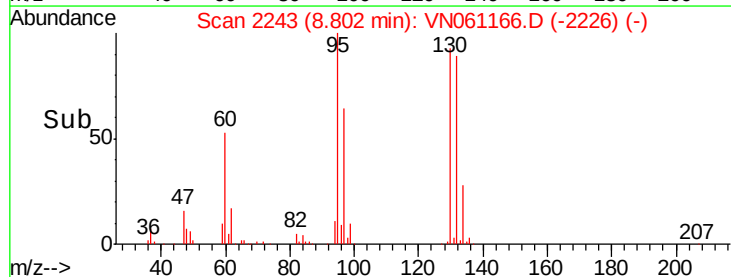
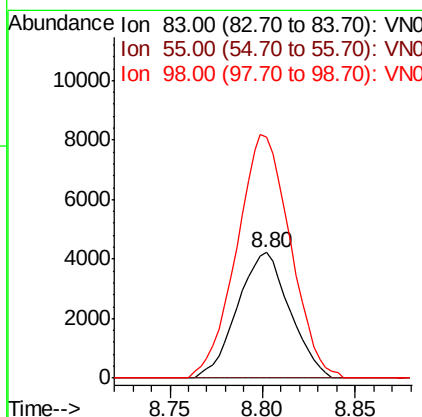
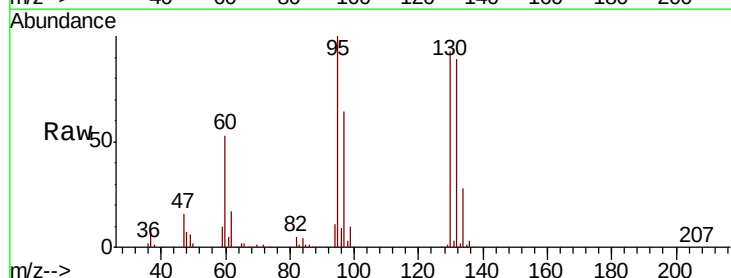
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB180-GW-588-590

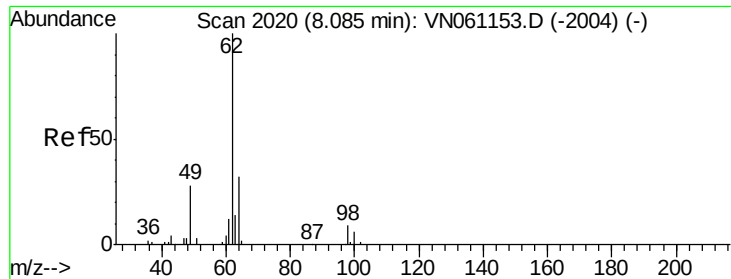
Tot Ion:117 Resp: 1183
Ion Ratio Lower Upper
117 100
119 100.2 75.8 113.6
121 29.4 24.7 37.1



#39
Methylcyclohexane
Concen: 5.149 ug/l
RT: 8.80 min Scan# 2243
Delta R.T. -0.24 min
Lab File: VN061166.D
Acq: 28 Apr 2020 16:04

Tgt Ion: 83 Resp: 8269
Ion Ratio Lower Upper
83 100
55 0.0 67.3 100.9#
98 192.2 37.7 56.5#

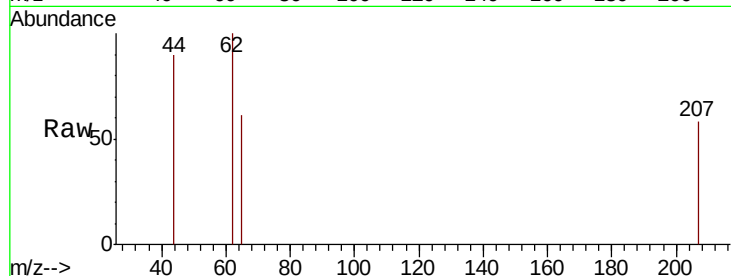




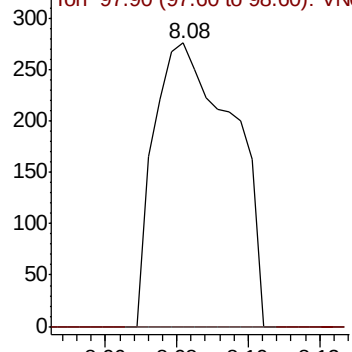
#42
 1,2-Dichloroethane
 Concen: 0.208 ug/l
 RT: 8.08 min Scan# 2019
 Delta R.T. -0.00 min
 Lab File: VN061166.D
 Acq: 28 Apr 2020 16:04

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB180-GW-588-590

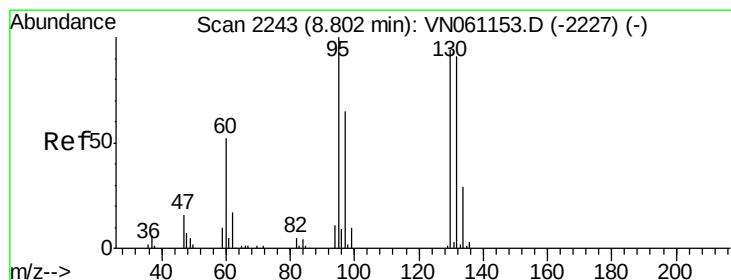
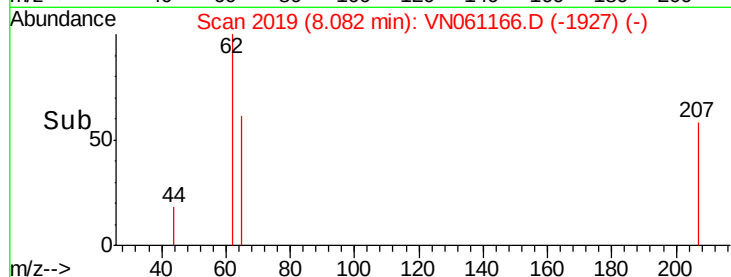
Tot Ion: 62 Resp: 422
 Ion Ratio Lower Upper
 62 100
 98 0.0 0.0 16.8



Abundance Ion 61.90 (61.60 to 62.60): VN061153.D (-2004) (-)
 Ion 97.90 (97.60 to 98.60): VN061153.D (-2004) (-)

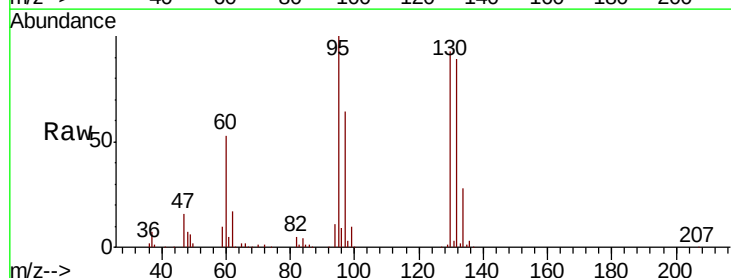


Time-->

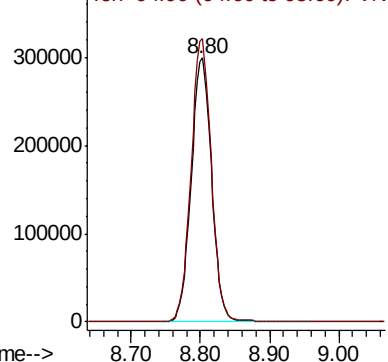


#44
 Trichloroethene
 Concen: 423.096 ug/l
 RT: 8.80 min Scan# 2243
 Delta R.T. 0.00 min
 Lab File: VN061166.D
 Acq: 28 Apr 2020 16:04

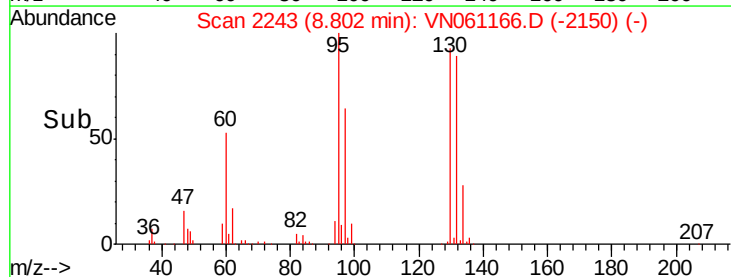
Tgt Ion: 130 Resp: 613190
 Ion Ratio Lower Upper
 130 100
 95 107.2 0.0 212.4

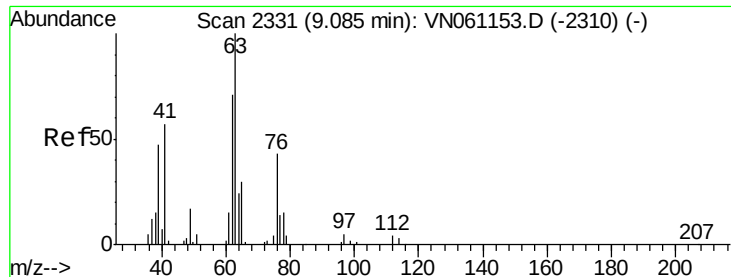


Abundance Ion 129.80 (129.50 to 130.50): VN061153.D (-2227) (-)
 Ion 94.90 (94.60 to 95.60): VN061153.D (-2227) (-)



Time-->





#45

1,2-Dichloropropane

Concen: 1.169 ug/l

RT: 8.80 min Scan# 2243

Delta R.T. -0.28 min

Lab File: VN061166.D

Acq: 28 Apr 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

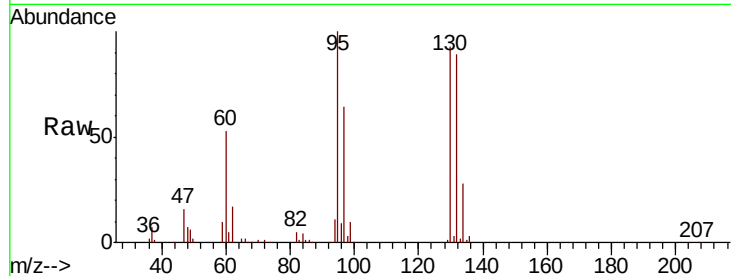
BP-VPB180-GW-588-590

Tot Ion: 63 Resp: 1674

Ion Ratio Lower Upper

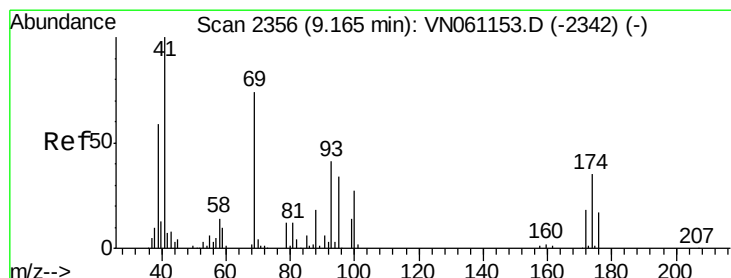
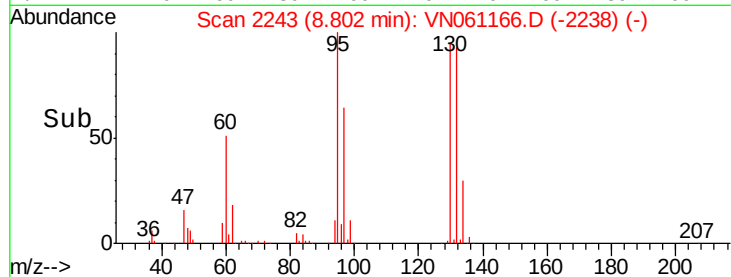
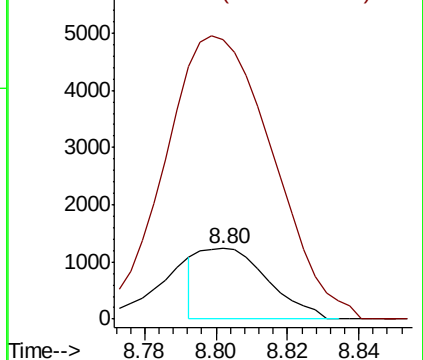
63 100

65 368.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#49

1,4-Dioxane

Concen: 7.862 ug/l

RT: 9.16 min Scan# 2355

Delta R.T. -0.00 min

Lab File: VN061166.D

Acq: 28 Apr 2020 16:04

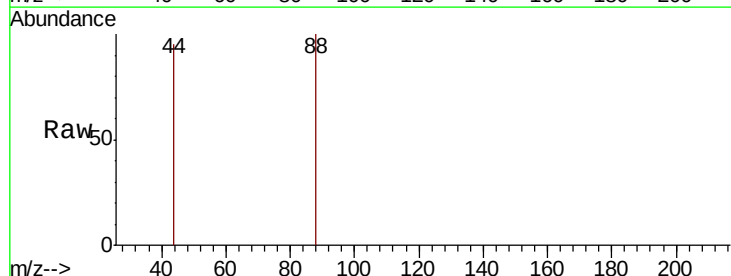
Tgt Ion: 88 Resp: 141

Ion Ratio Lower Upper

88 100

43 0.0 35.3 52.9#

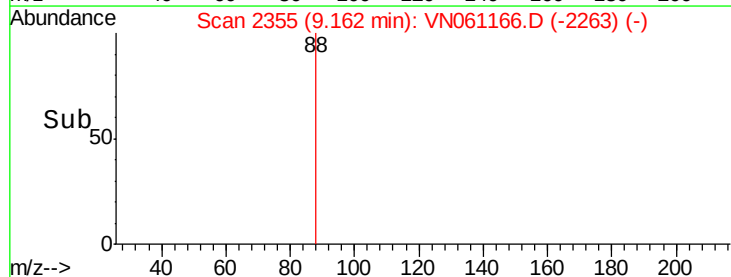
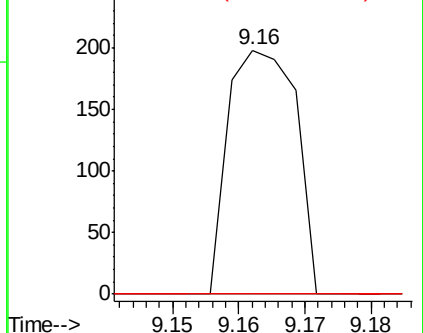
58 0.0 61.5 92.3#

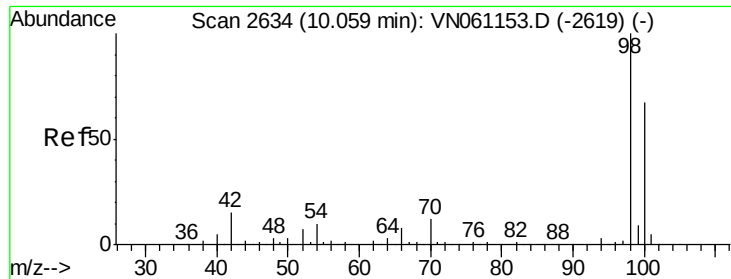


Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#50

Toluene-d8

Concen: 51.742 ug/l

RT: 10.06 min Scan# 2634

Delta R.T. 0.00 min

Lab File: VN061166.D

Acq: 28 Apr 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

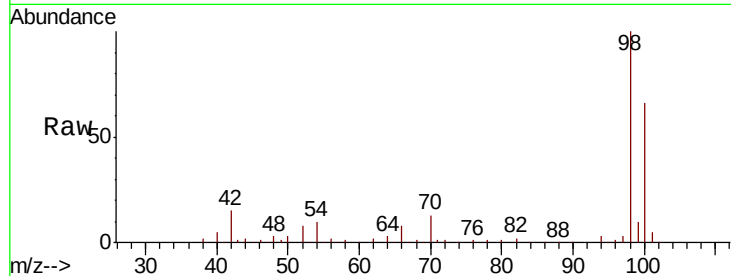
BP-VPB180-GW-588-590

Tot Ion: 98 Resp: 224215

Ion Ratio Lower Upper

98 100

100 65.9 53.4 80.0



Abundance Ion 98.00 (97.70 to 98.70): VN061153.D (-2619) (-)

Ion 100.00 (99.70 to 100.70): VN061153.D (-2619) (-)

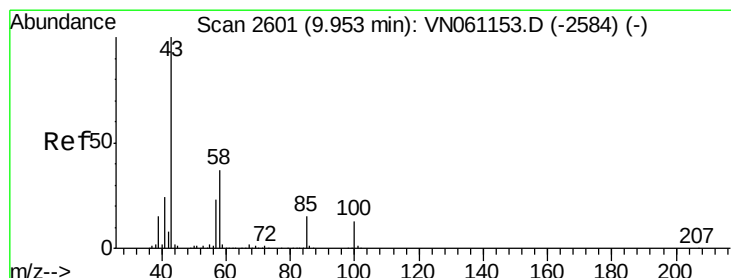
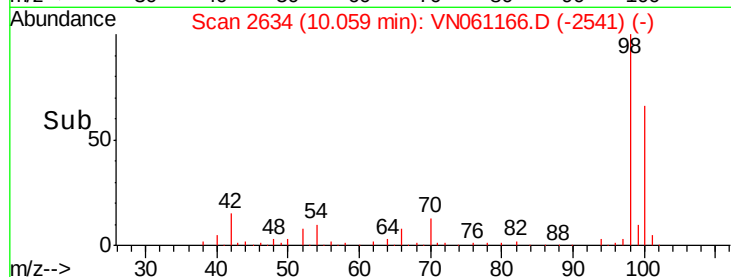
10.06

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.565 ug/l

RT: 10.06 min Scan# 2635

Delta R.T. 0.11 min

Lab File: VN061166.D

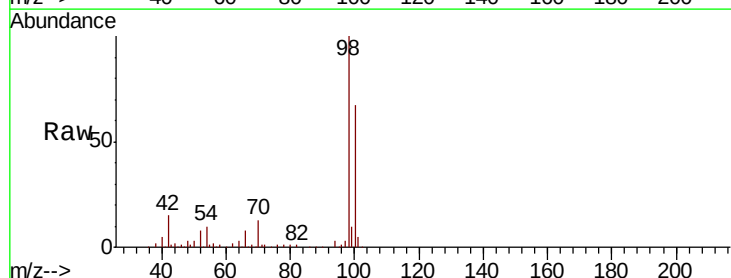
Acq: 28 Apr 2020 16:04

Tgt Ion: 43 Resp: 1164

Ion Ratio Lower Upper

43 100

58 181.4 29.1 43.7#



Abundance Ion 43.00 (42.70 to 43.70): VN061153.D (-2584) (-)

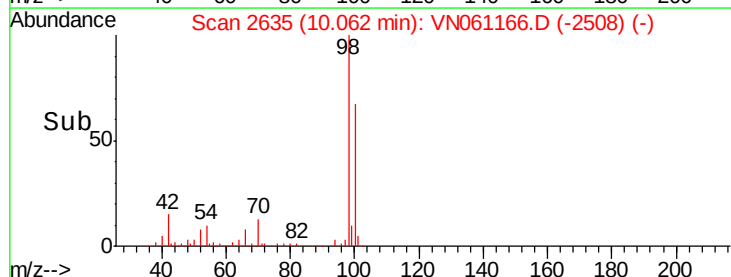
Ion 58.00 (57.70 to 58.70): VN061153.D (-2584) (-)

1000

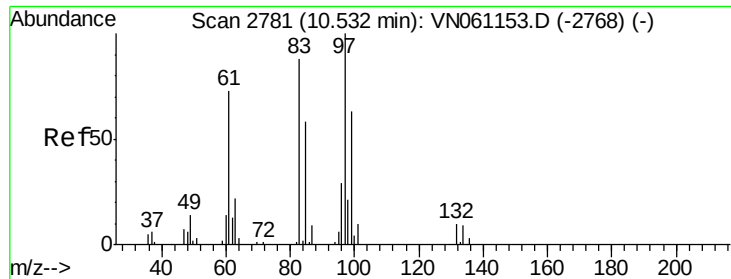
500

0

Time-->



10.06



#55

1,1,2-Trichloroethane

Concen: 2.146 ug/l

RT: 10.54 min Scan# 2782

Delta R.T. 0.00 min

Lab File: VN061166.D

Acq: 28 Apr 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB180-GW-588-590

Tot Ion: 97 Resp: 2764

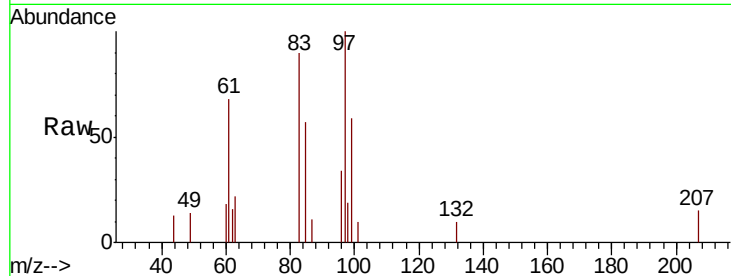
Ion Ratio Lower Upper

97 100

83 89.6 70.6 106.0

85 56.9 46.4 69.6

99 59.3 50.6 75.8

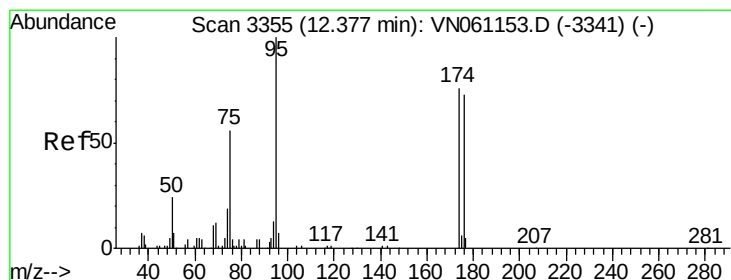
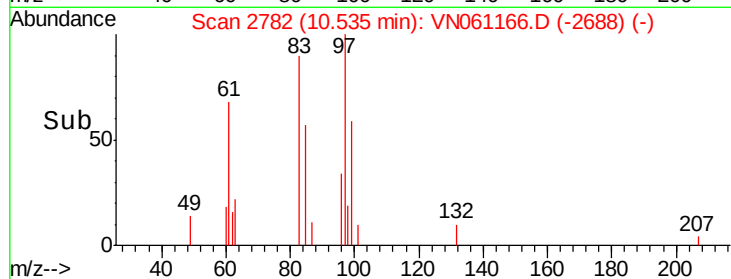
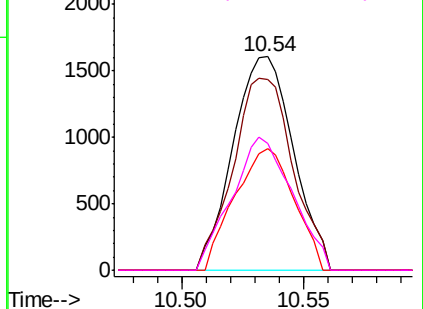


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 98.90 (98.60 to 99.60): VN0



#62

4-Bromofluorobenzene

Concen: 52.063 ug/l

RT: 12.38 min Scan# 3355

Delta R.T. 0.00 min

Lab File: VN061166.D

Acq: 28 Apr 2020 16:04

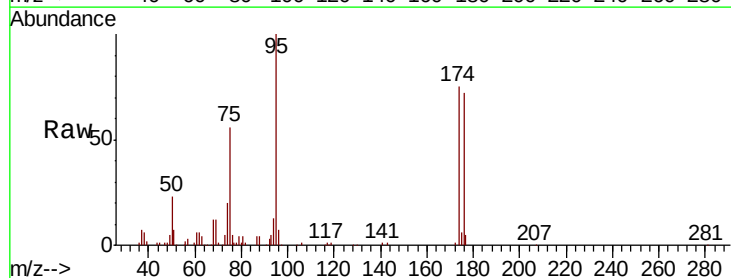
Tgt Ion: 95 Resp: 84898

Ion Ratio Lower Upper

95 100

174 72.9 0.0 149.4

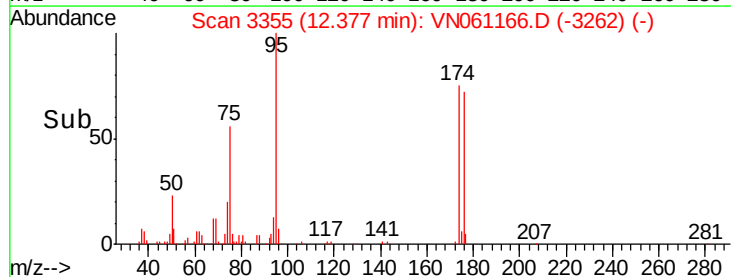
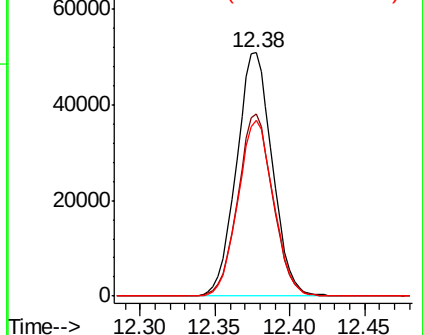
176 71.6 0.0 144.8

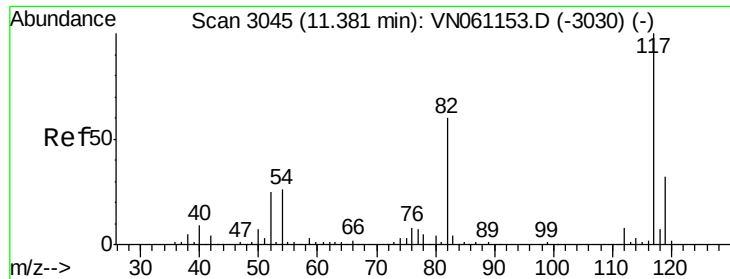


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 3045

Delta R.T. 0.00 min

Lab File: VN061166.D

Acq: 28 Apr 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB180-GW-588-590

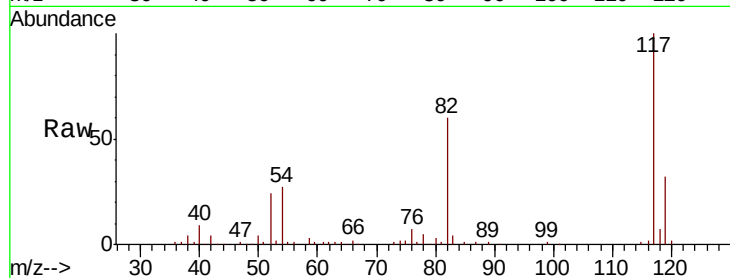
Tot Ion:117 Resp: 174096

Ion Ratio Lower Upper

117 100

82 60.2 47.8 71.8

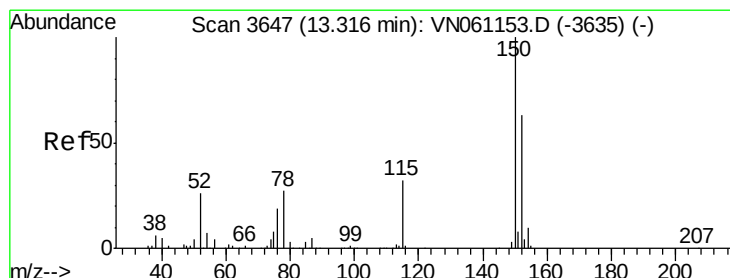
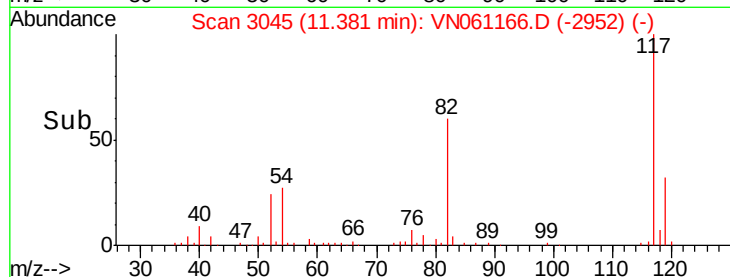
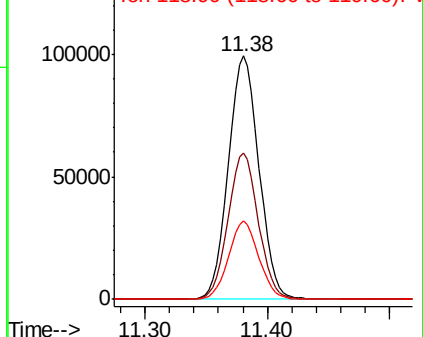
119 32.1 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3648

Delta R.T. 0.00 min

Lab File: VN061166.D

Acq: 28 Apr 2020 16:04

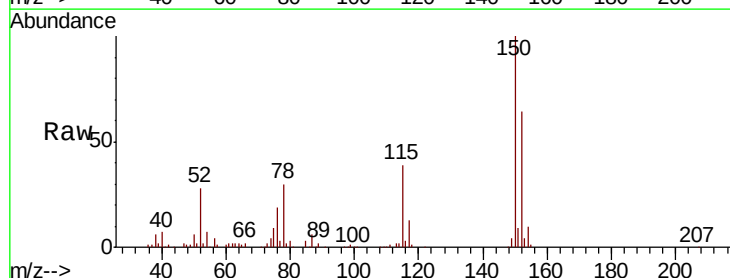
Tgt Ion:152 Resp: 78524

Ion Ratio Lower Upper

152 100

115 61.7 31.0 93.0

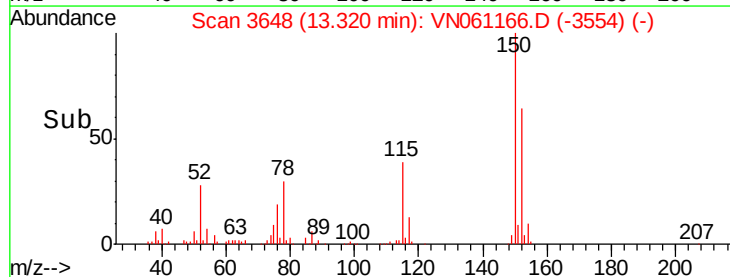
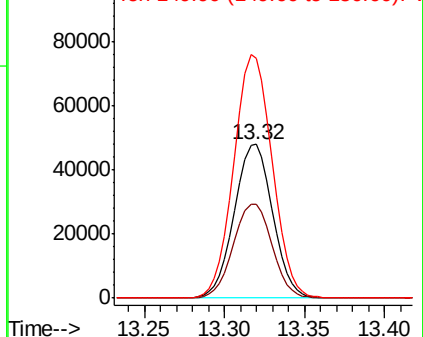
150 158.3 0.0 351.8

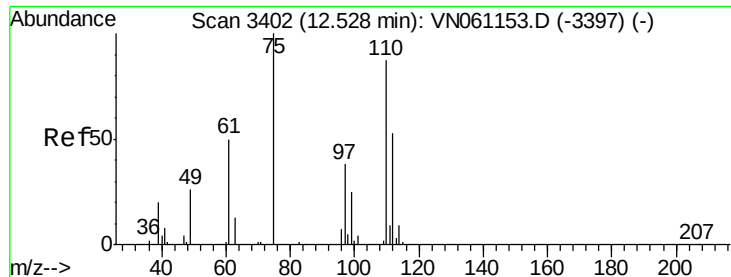


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 28.896 ug/l

RT: 12.37 min Scan# 3354

Delta R.T. -0.15 min

Lab File: VN061166.D

Acq: 28 Apr 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

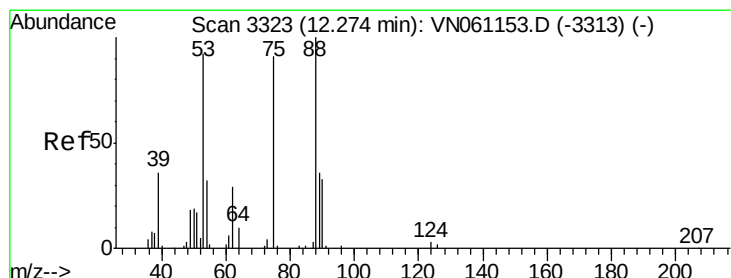
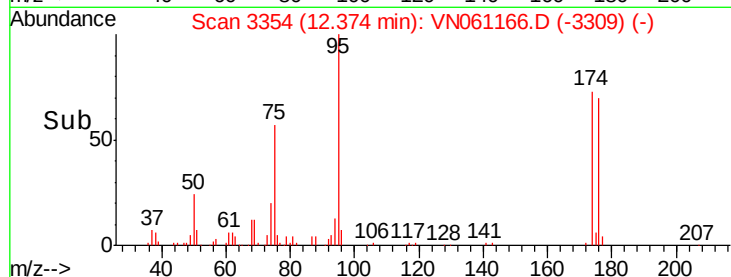
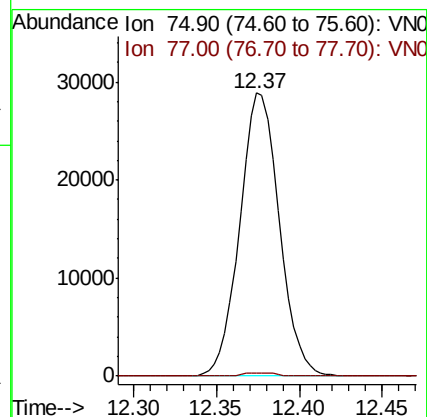
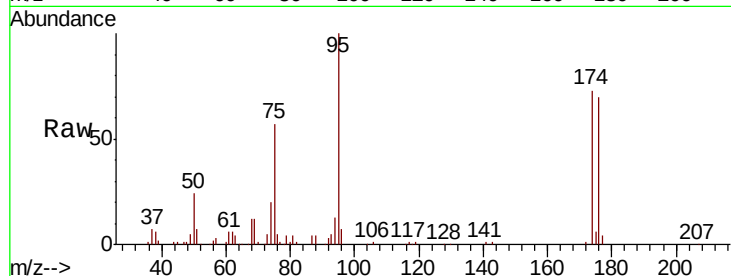
BP-VPB180-GW-588-590

Tot Ion: 75 Resp: 47838

Ion Ratio Lower Upper

75 100

77 0.9 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 73.382 ug/l

RT: 12.37 min Scan# 3354

Delta R.T. 0.10 min

Lab File: VN061166.D

Acq: 28 Apr 2020 16:04

Tgt Ion: 75 Resp: 47838

Ion Ratio Lower Upper

75 100

53 0.0 84.1 126.1#

89 0.0 35.2 52.8#

