

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112420\
 Data File : VN064833.D
 Acq On : 25 Nov 2020 1:06
 Operator : JC/MD
 Sample : L4798-06 20X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 45BR-20201118

Quant Time: Nov 25 05:58:38 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112320W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 23 13:54:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	166876	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	293929	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	302373	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	136015	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	102527	52.85	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	105.70%
35) Dibromofluoromethane	7.55	113	94143	53.53	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	107.06%
50) Toluene-d8	10.06	98	366350	50.98	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	101.96%
62) 4-Bromofluorobenzene	12.37	95	141485	55.01	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	110.02%

Target Compounds

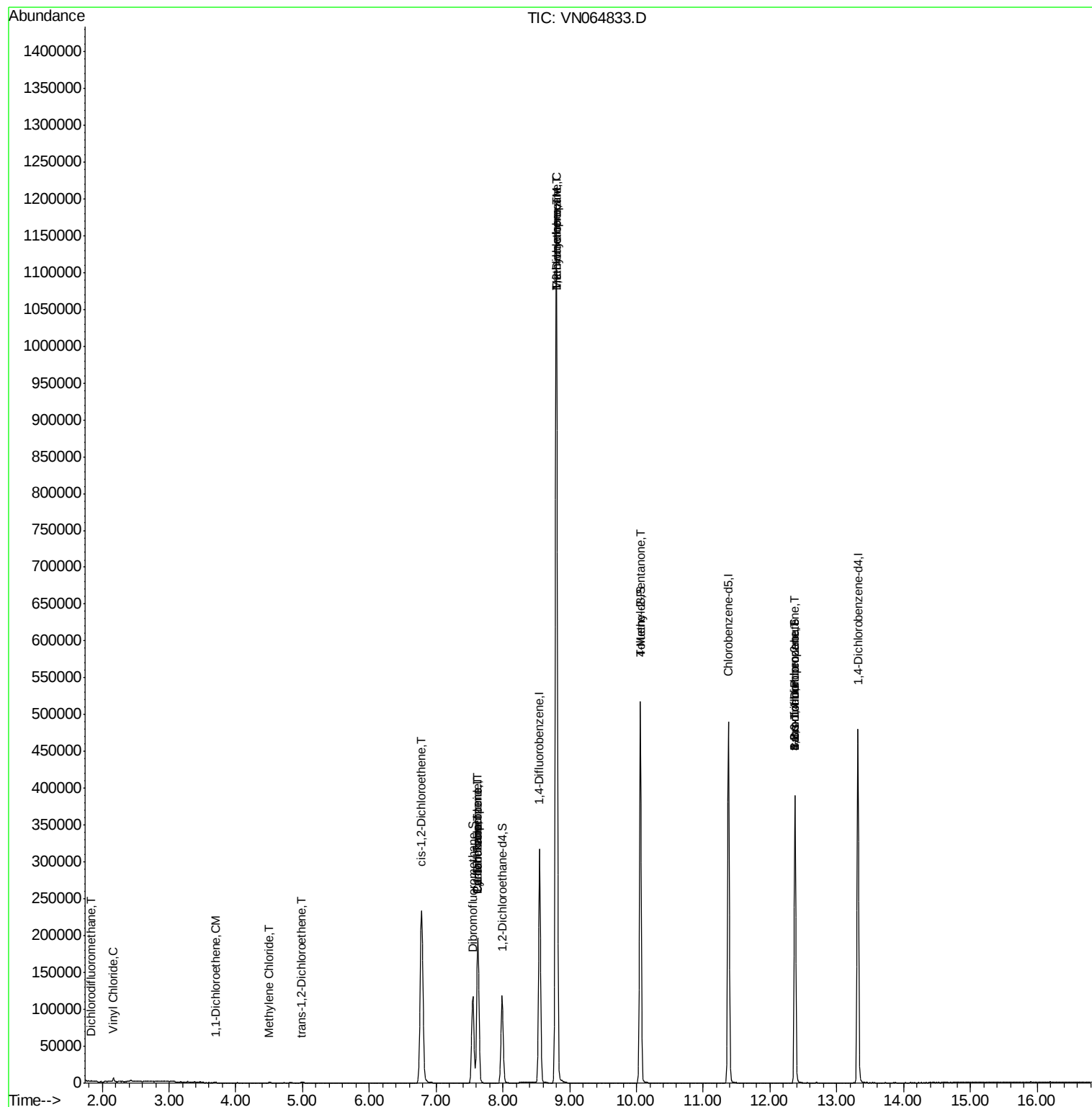
					Qvalue
2) Dichlorodifluoromethane	1.84	85	491	0.339 ug/l #	70
4) Vinyl Chloride	2.17	62	5359	2.735 ug/l	96
12) 1,1-Dichloroethene	3.69	96	668	0.413 ug/l #	68
20) Methylene Chloride	4.50	84	446	0.223 ug/l #	64
21) trans-1,2-Dichloroethene	4.99	96	875	0.487 ug/l #	71
27) cis-1,2-Dichloroethene	6.78	96	163537	80.875 ug/l	89
31) Cyclohexane	7.63	56	2916	1.078 ug/l #	1
36) 1,1-Dichloropropene	7.62	75	11388	4.180 ug/l #	50
38) Carbon Tetrachloride	7.62	117	16017	5.650 ug/l #	16
39) Methylcyclohexane	8.79	83	5403	1.842 ug/l #	1
44) Trichloroethene	8.80	130	462848	187.900 ug/l	99
45) 1,2-Dichloropropane	8.80	63	827	0.383 ug/l #	1
51) 4-Methyl-2-Pentanone	10.06	43	1525	0.602 ug/l #	1
71) Bromoform	12.38	173	946	0.496 ug/l #	1
76) 1,2,3-Trichloropropane	12.37	75	66621	22.744 ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	66621	62.335 ug/l #	15

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064833.D

Acq: 25 Nov 2020 1:06

Instrument :

MSVOA_N

ClientSampleId :

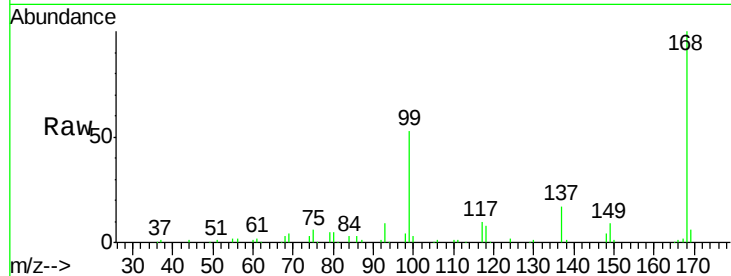
45BR-20201118

Tot Ion:168 Resp: 166876

Ion Ratio Lower Upper

168 100

99 53.4 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

80000

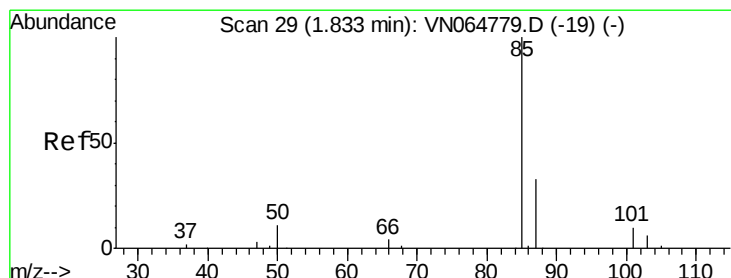
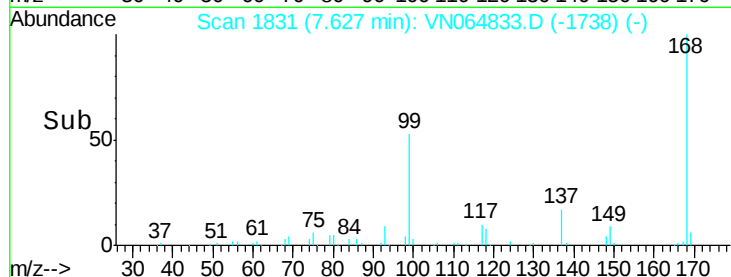
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#2

Dichlorodifluoromethane

Concen: 0.339 ug/l

RT: 1.84 min Scan# 30

Delta R.T. 0.00 min

Lab File: VN064833.D

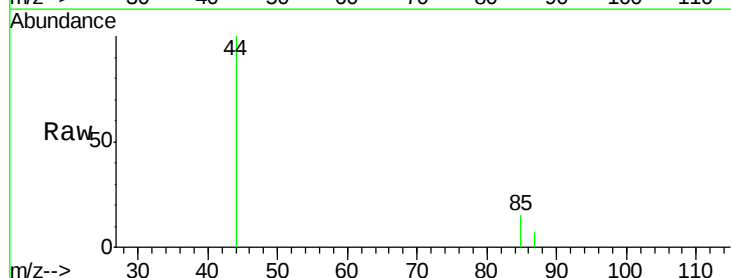
Acq: 25 Nov 2020 1:06

Tgt Ion: 85 Resp: 491

Ion Ratio Lower Upper

85 100

87 49.9 16.4 49.4#



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.84

400

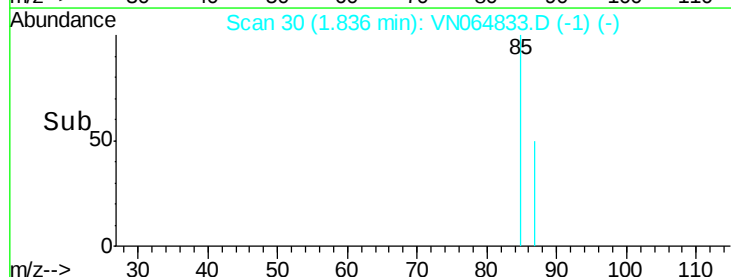
300

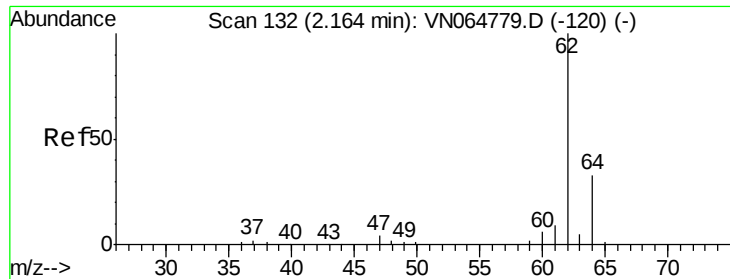
200

100

0

Time--> 1.80 1.82 1.84 1.86





#4

Vinyl Chloride

Concen: 2.735 ug/l

RT: 2.17 min Scan# 133

Delta R.T. 0.00 min

Lab File: VN064833.D

Acq: 25 Nov 2020 1:06

Instrument :

MSVOA_N

ClientSampleId :

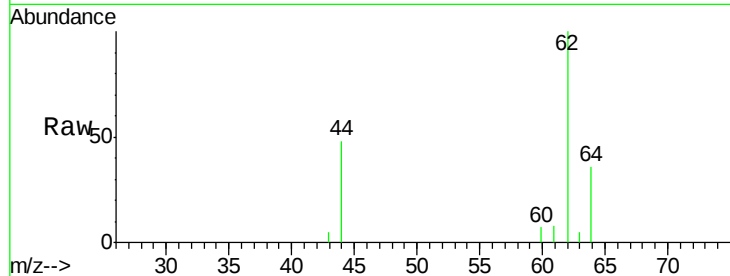
45BR-20201118

Tot Ion: 62 Resp: 5359

Ion Ratio Lower Upper

62 100

64 35.6 26.5 39.7



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

2.17

4000

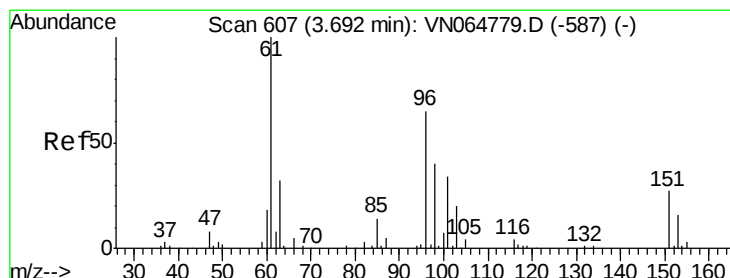
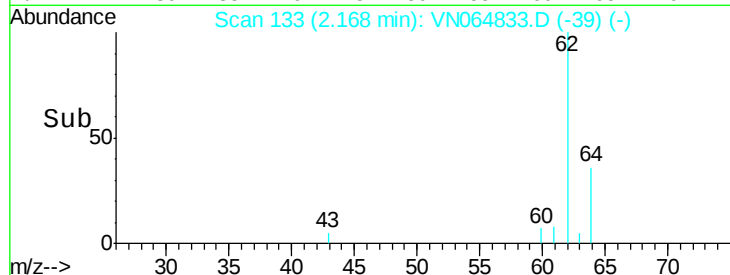
3000

2000

1000

0

Time-->



#12

1,1-Dichloroethene

Concen: 0.413 ug/l

RT: 3.69 min Scan# 606

Delta R.T. -0.00 min

Lab File: VN064833.D

Acq: 25 Nov 2020 1:06

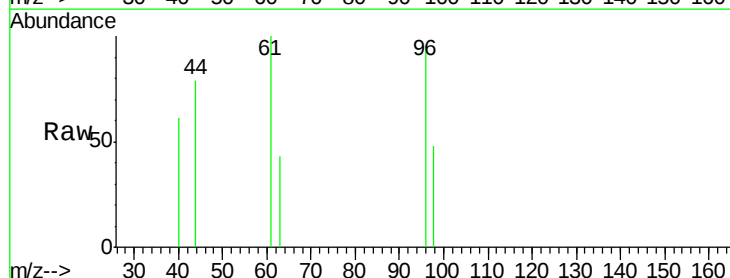
Tgt Ion: 96 Resp: 668

Ion Ratio Lower Upper

96 100

61 103.9 123.4 185.2#

98 50.0 49.8 74.8



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

3.69

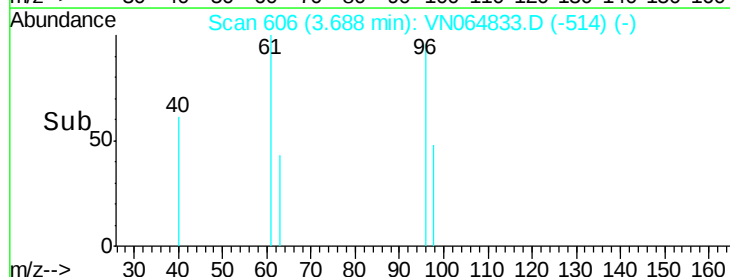
600

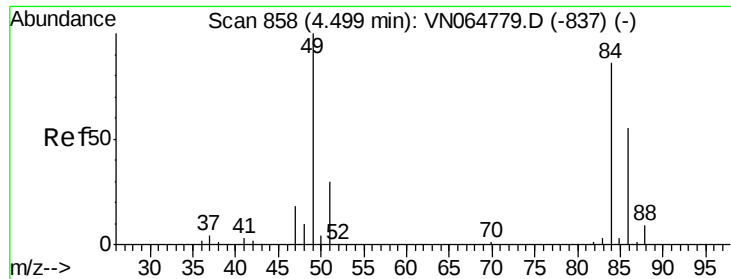
400

200

0

Time-->

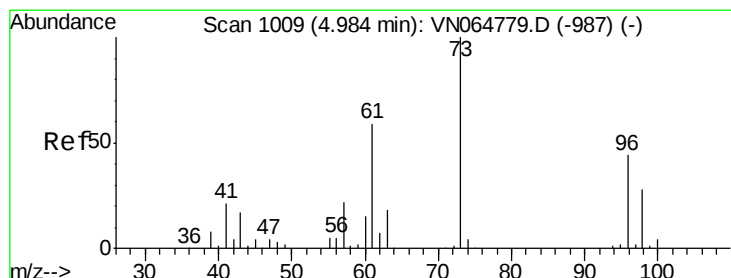
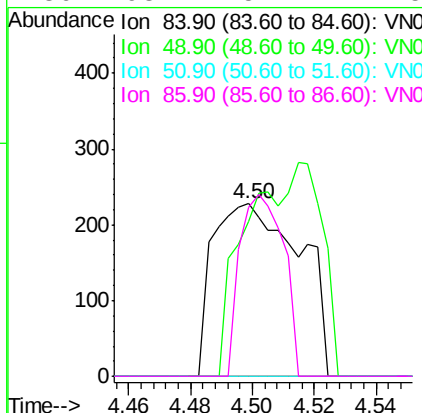
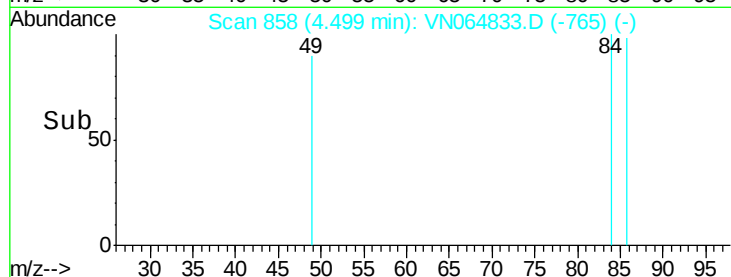
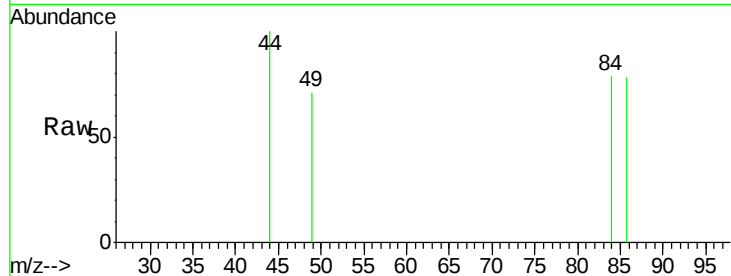




#20
Methvlene Chloride
Concen: 0.223 ug/l
RT: 4.50 min Scan# 858
Delta R.T. 0.00 min
Lab File: VN064833.D
Acq: 25 Nov 2020 1:06

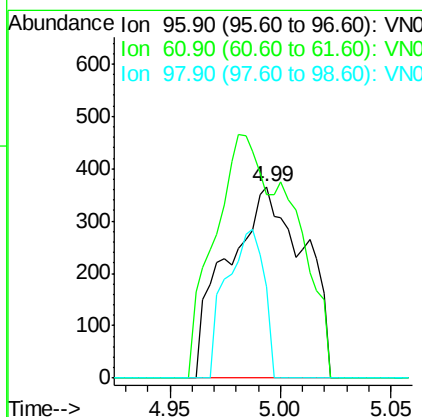
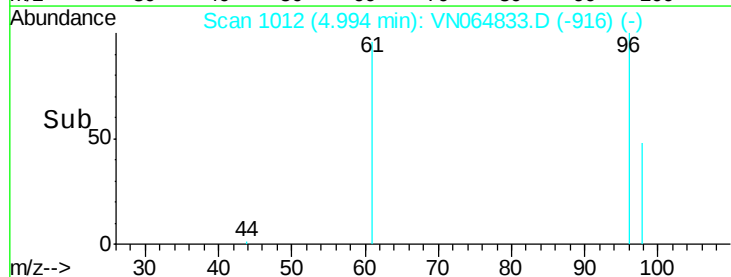
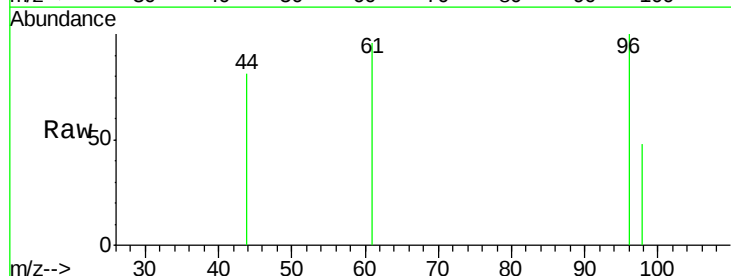
Instrument :
MSVOA_N
ClientSampleId :
45BR-20201118

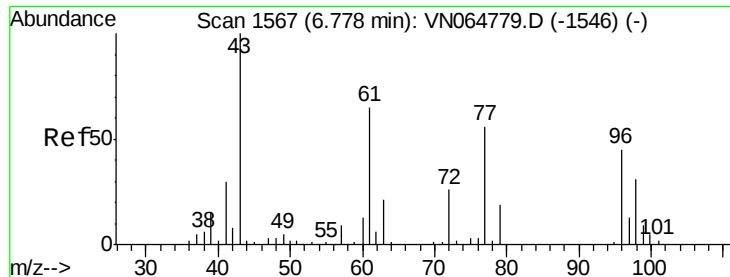
Tot Ion: 84 Resp: 446
Ion Ratio Lower Upper
84 100
49 89.9 93.4 140.0#
51 0.0 28.2 42.4#
86 98.2 51.7 77.5#



#21
trans-1,2-Dichloroethene
Concen: 0.487 ug/l
RT: 4.99 min Scan# 1012
Delta R.T. 0.01 min
Lab File: VN064833.D
Acq: 25 Nov 2020 1:06

Tgt Ion: 96 Resp: 875
Ion Ratio Lower Upper
96 100
61 95.9 108.4 162.6#
98 47.7 51.3 76.9#





#27

cis-1,2-Dichloroethene

Concen: 80.875 ug/l

RT: 6.78 min Scan# 1569

Delta R.T. 0.01 min

Lab File: VN064833.D

Acq: 25 Nov 2020 1:06

Instrument :

MSVOA_N

ClientSampleId :

45BR-20201118

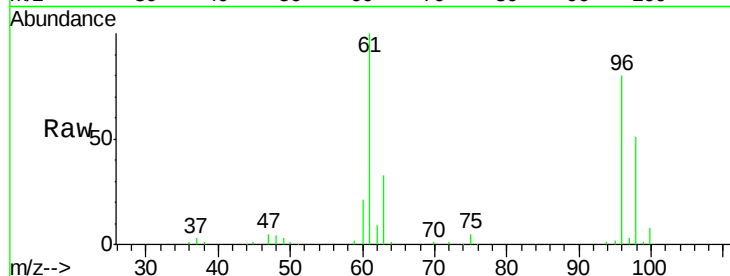
Tot Ion: 96 Resp: 163537

Ion Ratio Lower Upper

96 100

61 124.5 0.0 285.8

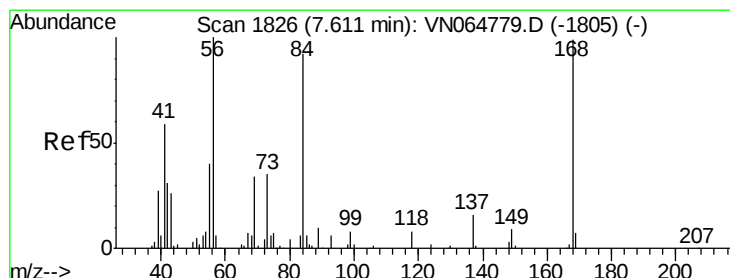
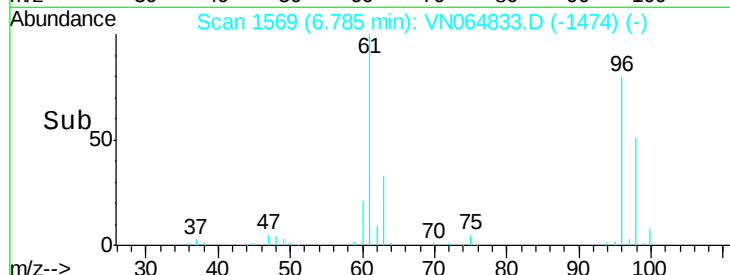
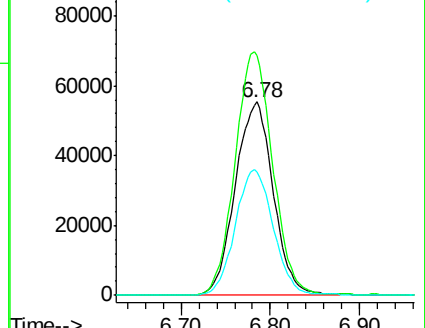
98 64.6 0.0 130.6



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#31

Cyclohexane

Concen: 1.078 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN064833.D

Acq: 25 Nov 2020 1:06

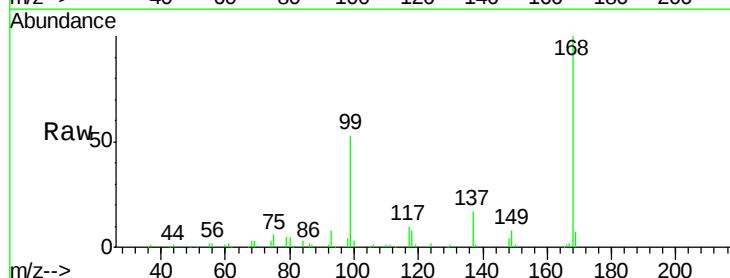
Tgt Ion: 56 Resp: 2916

Ion Ratio Lower Upper

56 100

69 185.9 27.5 41.3#

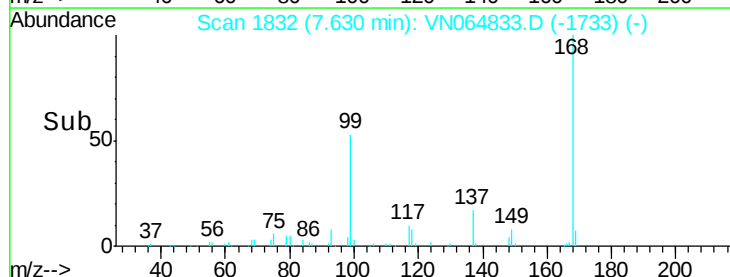
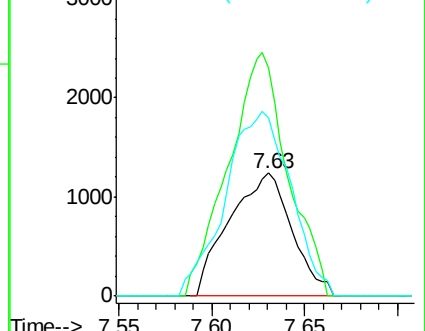
84 144.8 73.9 110.9#

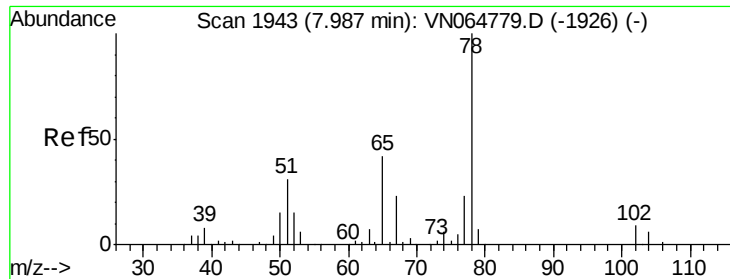


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 52.848 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN064833.D

Acq: 25 Nov 2020 1:06

Instrument :

MSVOA_N

ClientSampleId :

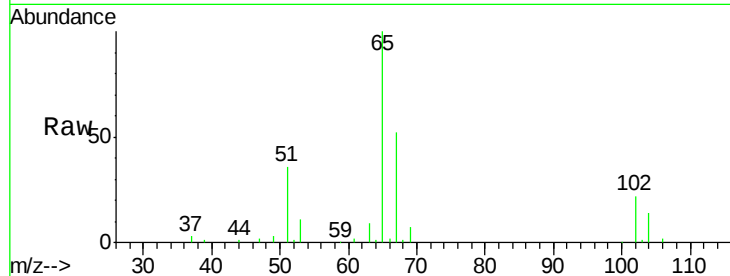
45BR-20201118

Tot Ion: 65 Resp: 102527

Ion Ratio Lower Upper

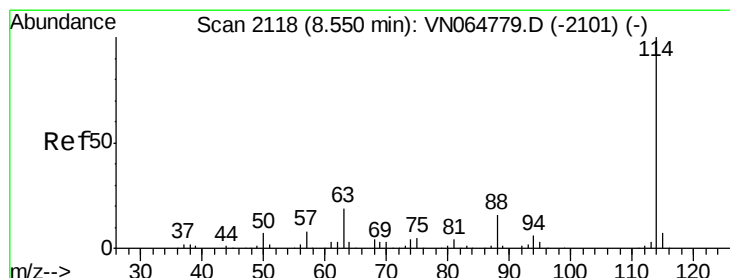
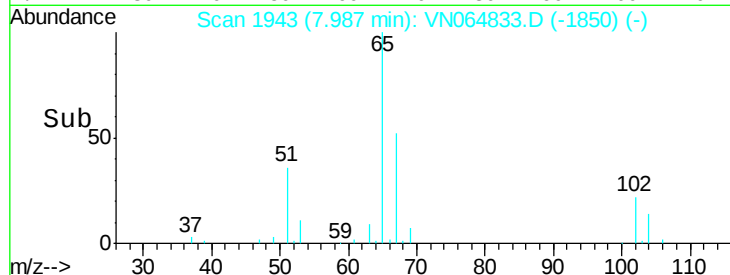
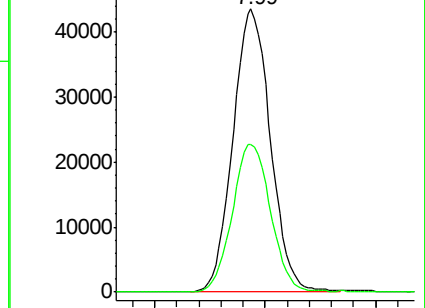
65 100

67 53.2 0.0 108.2



Abundance Ion 64.90 (64.60 to 65.60): VN064833.D (-1850) (-)

Ion 66.90 (66.60 to 67.60): VN064833.D (-1850) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN064833.D

Acq: 25 Nov 2020 1:06

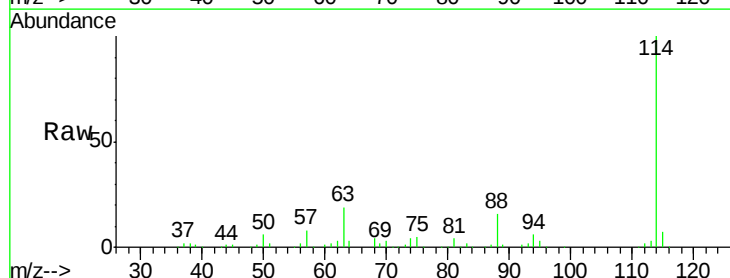
Tgt Ion: 114 Resp: 293929

Ion Ratio Lower Upper

114 100

63 19.2 0.0 38.6

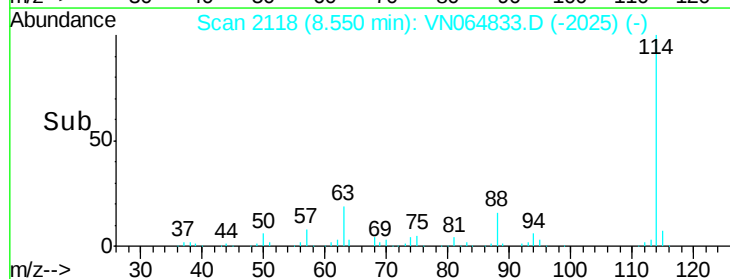
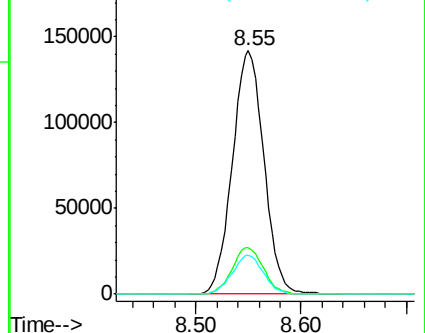
88 16.0 0.0 32.6

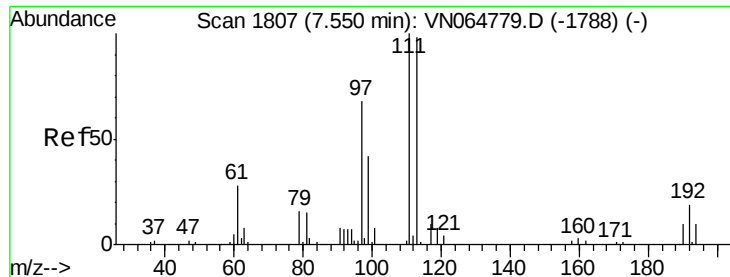


Abundance Ion 113.90 (113.60 to 114.60): VN064833.D (-2025) (-)

Ion 63.00 (62.70 to 63.70): VN064833.D (-2025) (-)

Ion 87.90 (87.60 to 88.60): VN064833.D (-2025) (-)

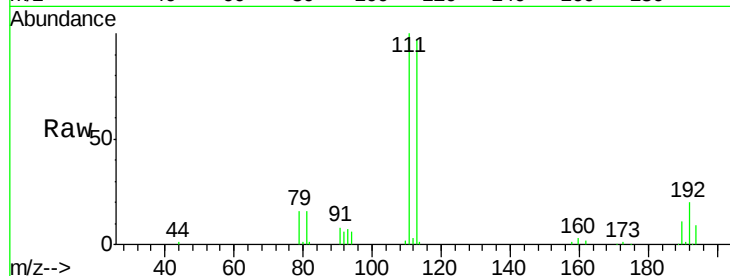




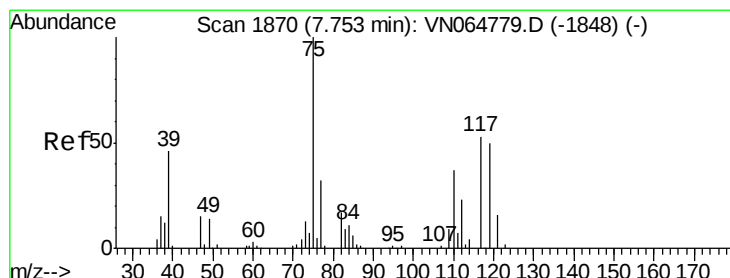
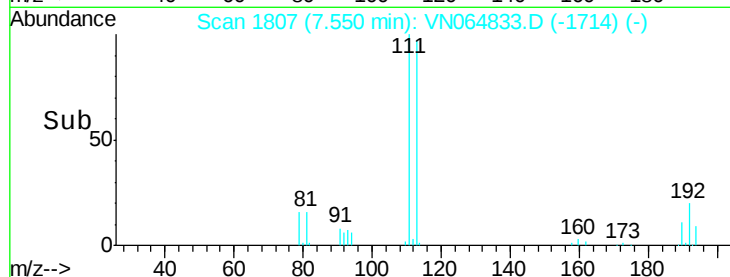
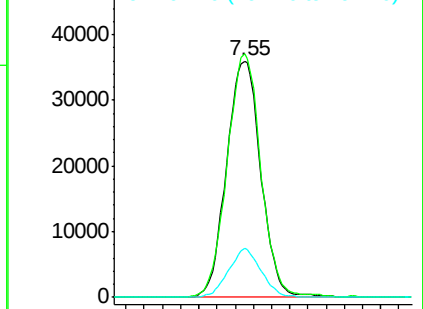
#35
 Dibromofluoromethane
 Concen: 53.528 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064833.D
 Acq: 25 Nov 2020 1:06

Instrument :
 MSVOA_N
 ClientSampleId :
 45BR-20201118

Tot Ion:113 Resp: 94143
 Ion Ratio Lower Upper
 113 100
 111 100.7 81.6 122.4
 192 19.5 16.2 24.2

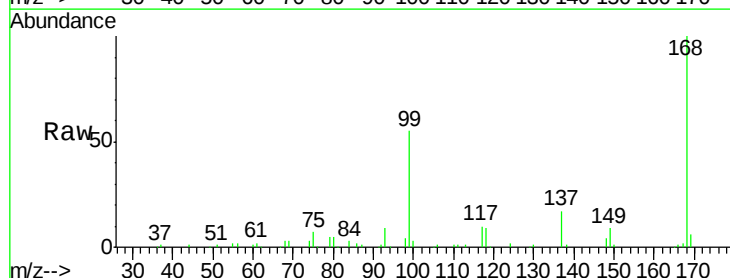


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

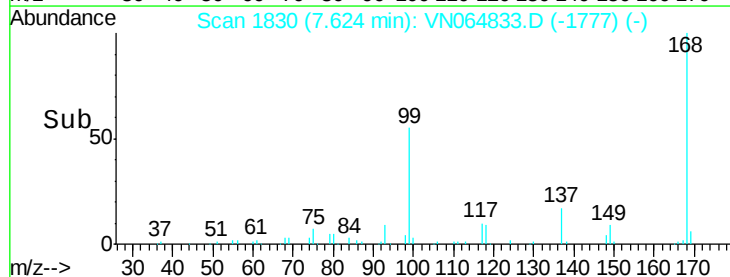
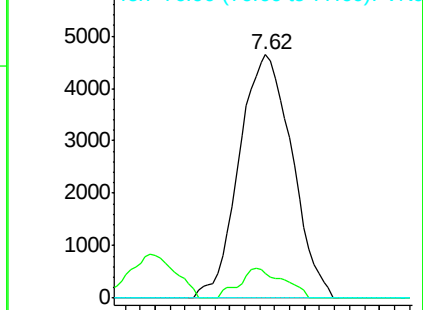


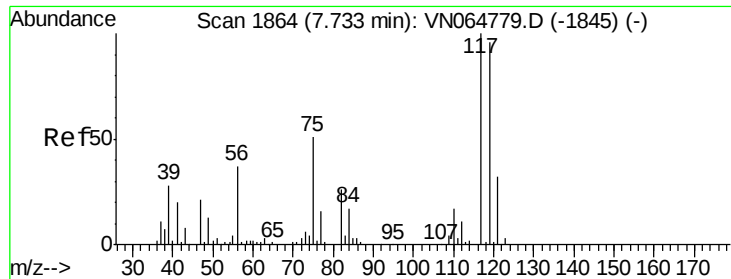
#36
 1,1-Dichloropropene
 Concen: 4.180 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN064833.D
 Acq: 25 Nov 2020 1:06

Tgt Ion: 75 Resp: 11388
 Ion Ratio Lower Upper
 75 100
 110 10.1 17.8 53.3#
 77 0.0 25.0 37.4#



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: 5.650 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN064833.D

Acq: 25 Nov 2020 1:06

Instrument :

MSVOA_N

ClientSampled :

45BR-20201118

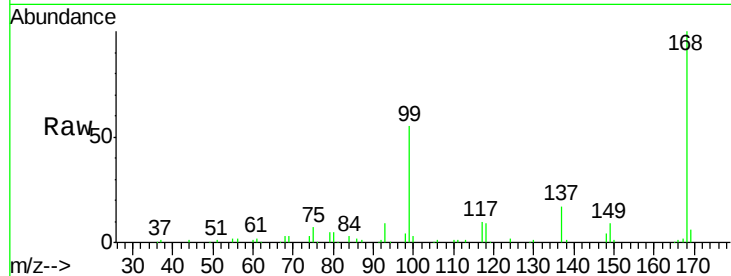
Tot Ion:117 Resp: 16017

Ion Ratio Lower Upper

117 100

119 4.6 76.7 115.1#

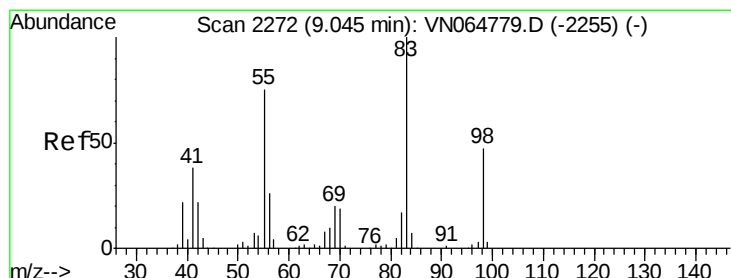
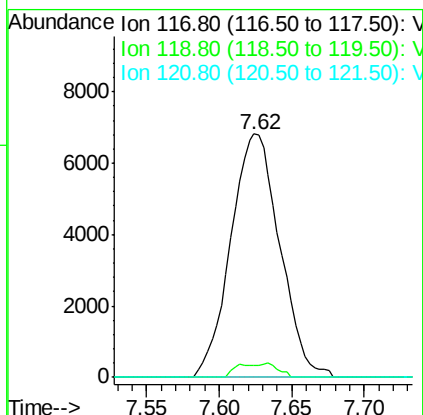
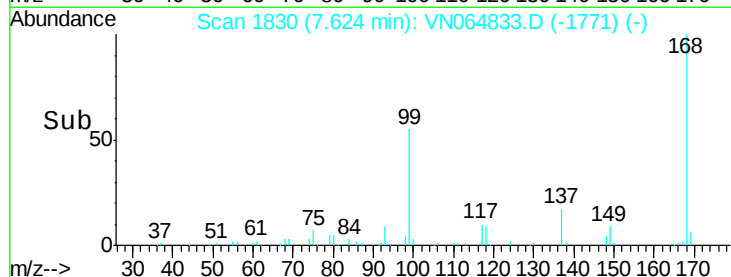
121 0.0 25.4 38.2#



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



#39

Methylcyclohexane

Concen: 1.842 ug/l

RT: 8.79 min Scan# 2194

Delta R.T. -0.25 min

Lab File: VN064833.D

Acq: 25 Nov 2020 1:06

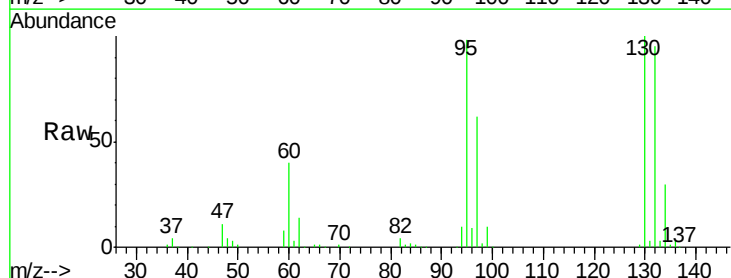
Tgt Ion: 83 Resp: 5403

Ion Ratio Lower Upper

83 100

55 0.0 60.2 90.2#

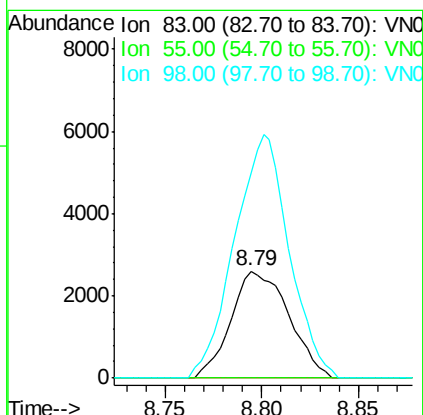
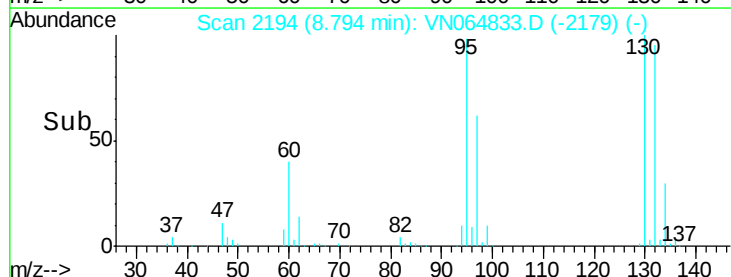
98 192.3 37.4 56.2#

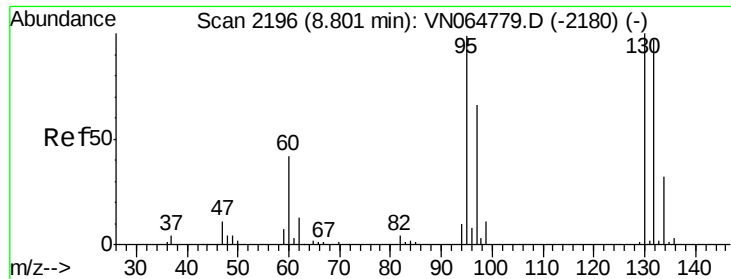


Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 98.00 (97.70 to 98.70): VN0





#44

Trichloroethene

Concen: 187.900 ug/l

RT: 8.80 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN064833.D

Acq: 25 Nov 2020 1:06

Instrument :

MSVOA_N

ClientSampleId :

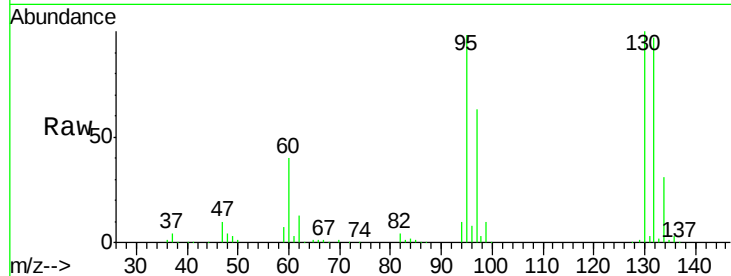
45BR-20201118

Tot Ion:130 Resp: 462848

Ion Ratio Lower Upper

130 100

95 97.8 0.0 197.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0

8.80

250000

200000

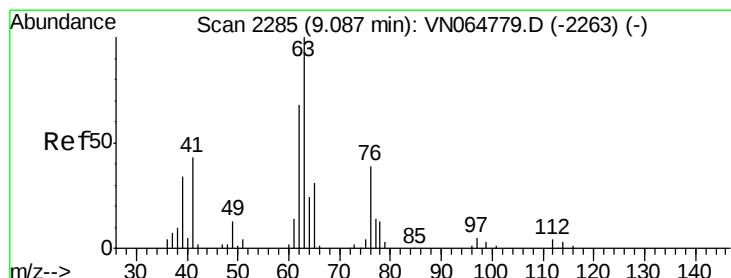
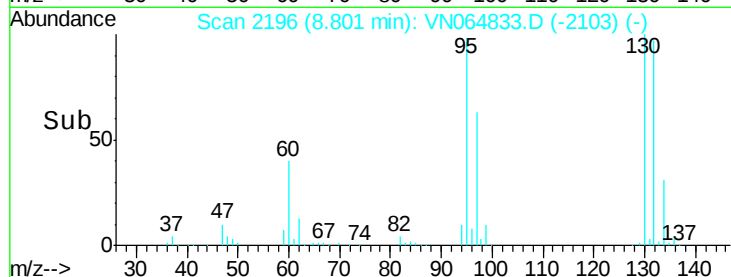
150000

100000

50000

0

Time--> 8.70 8.80 8.90



#45

1,2-Dichloropropane

Concen: 0.383 ug/l

RT: 8.80 min Scan# 2196

Delta R.T. -0.29 min

Lab File: VN064833.D

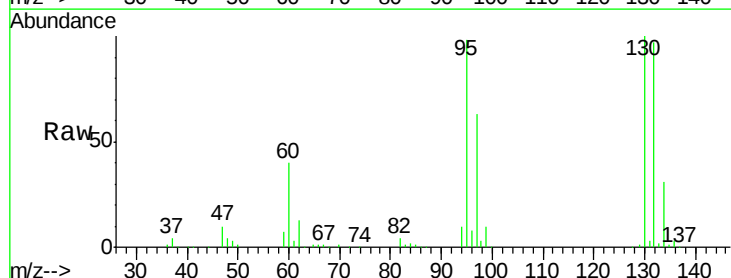
Acq: 25 Nov 2020 1:06

Tgt Ion: 63 Resp: 827

Ion Ratio Lower Upper

63 100

65 360.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

8.80

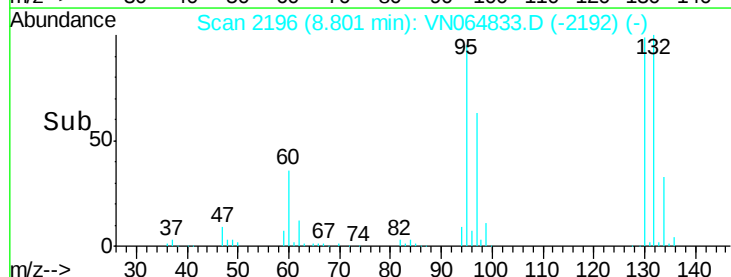
3000

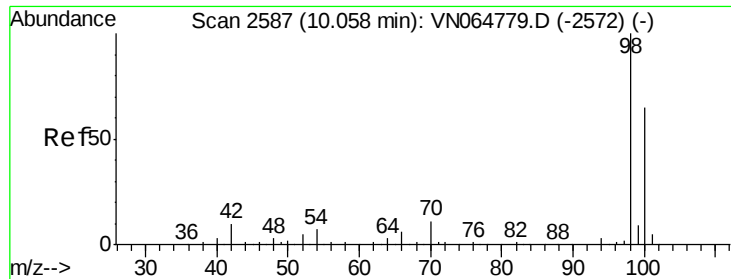
2000

1000

0

Time--> 8.78 8.80 8.82 8.84





#50

Toluene-d8

Concen: 50.979 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064833.D

Acq: 25 Nov 2020 1:06

Instrument :

MSVOA_N

ClientSampleId :

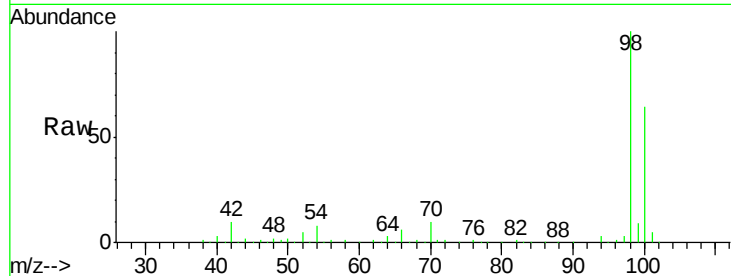
45BR-20201118

Tot Ion: 98 Resp: 366350

Ion Ratio Lower Upper

98 100

100 64.2 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN064779.D (-2572) (-)

Ion 100.00 (99.70 to 100.70): VN064779.D (-2572) (-)

10.06

200000

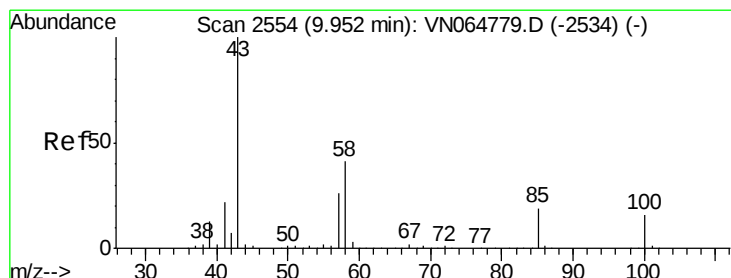
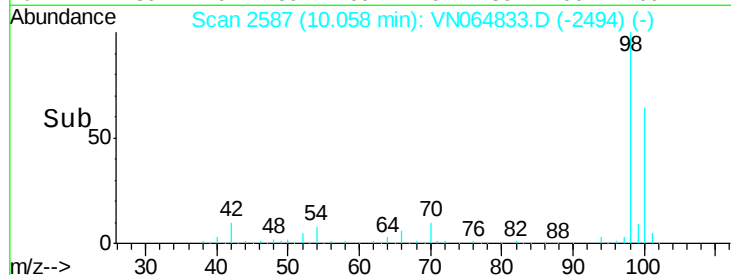
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.602 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.11 min

Lab File: VN064833.D

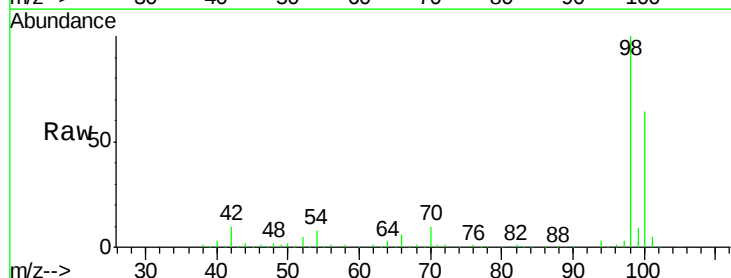
Acq: 25 Nov 2020 1:06

Tgt Ion: 43 Resp: 1525

Ion Ratio Lower Upper

43 100

58 190.6 32.4 48.6#



Abundance Ion 43.00 (42.70 to 43.70): VN064779.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN064779.D (-2534) (-)

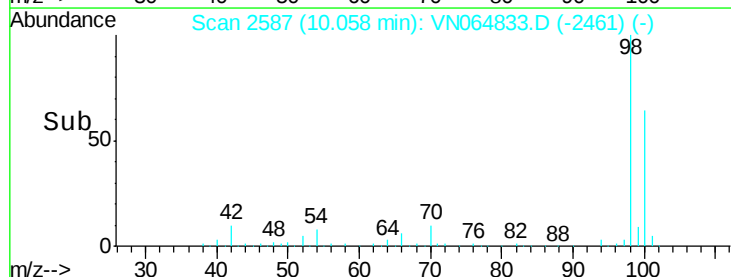
1500

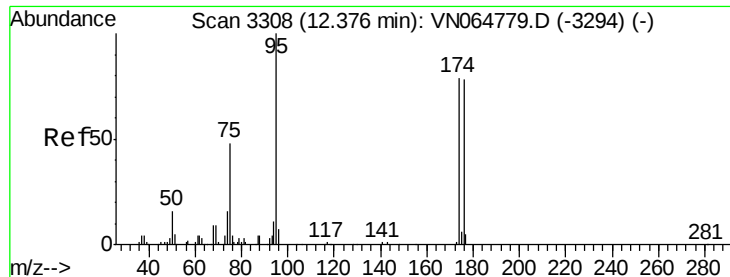
1000

500

0

Time-->

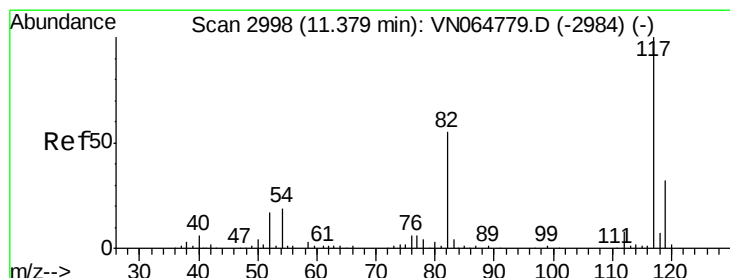
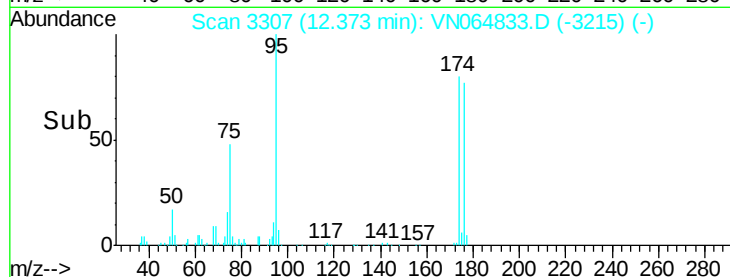
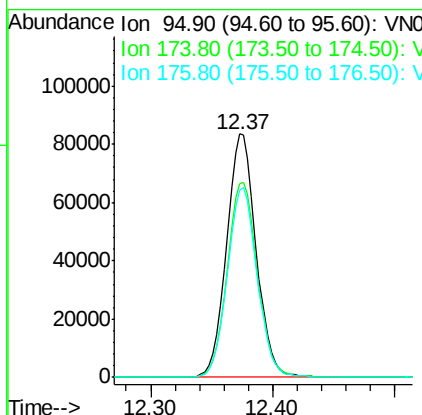
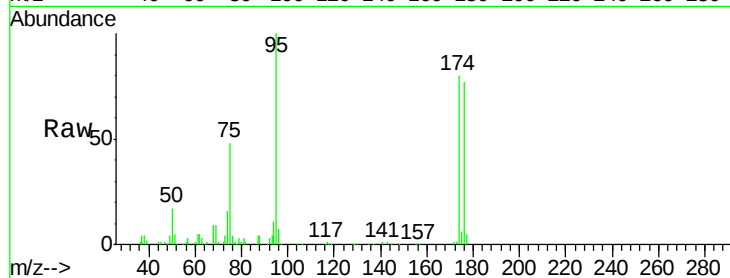




#62
4-Bromofluorobenzene
Concen: 55.014 ug/l
RT: 12.37 min Scan# 3307
Delta R.T. -0.00 min
Lab File: VN064833.D
Acq: 25 Nov 2020 1:06

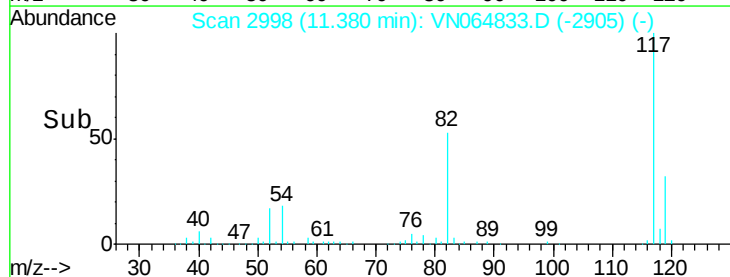
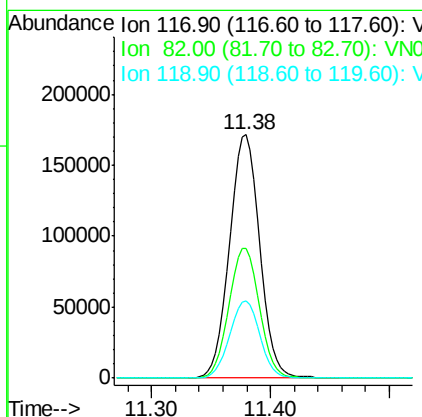
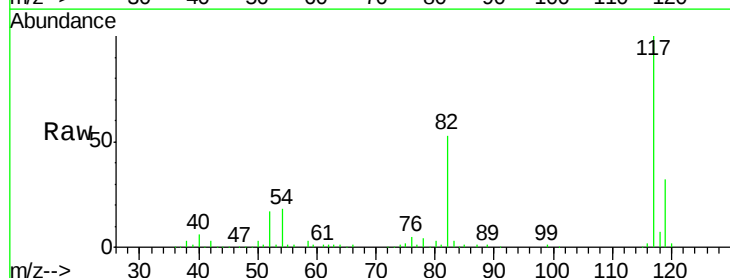
Instrument :
MSVOA_N
ClientSampleId :
45BR-20201118

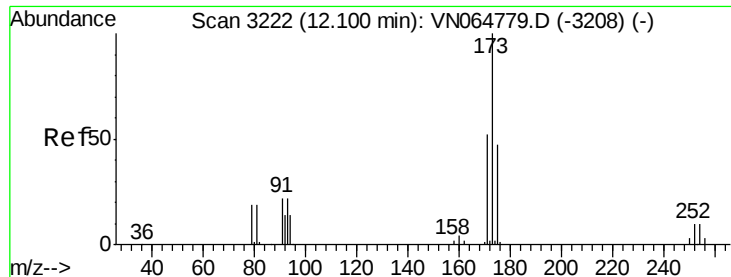
Tot Ion: 95 Resp: 141485
Ion Ratio Lower Upper
95 100
174 82.3 0.0 160.4
176 78.6 0.0 158.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064833.D
Acq: 25 Nov 2020 1:06

Tgt Ion: 117 Resp: 302373
Ion Ratio Lower Upper
117 100
82 53.4 44.2 66.2
119 31.9 25.8 38.6





#71

Bromoform

Concen: 0.496 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.28 min

Lab File: VN064833.D

Acq: 25 Nov 2020 1:06

Instrument :

MSVOA_N

ClientSampleId :

45BR-20201118

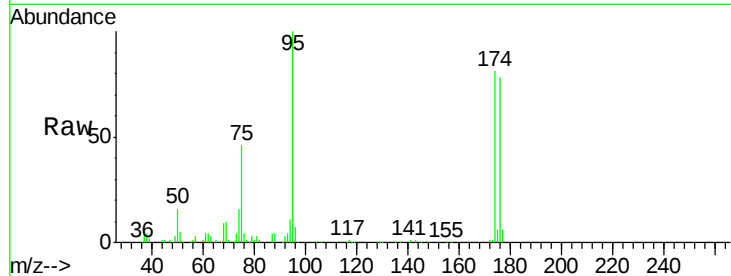
Tot Ion:173 Resp: 946

Ion Ratio Lower Upper

173 100

175 749.7 24.3 72.8#

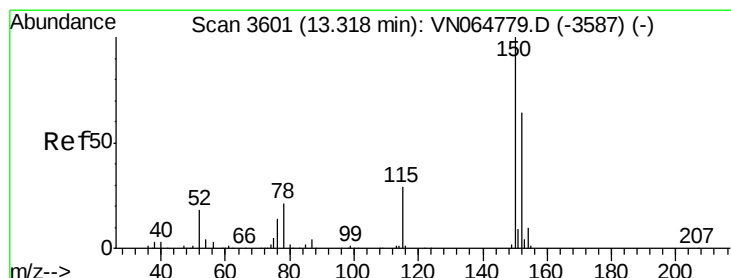
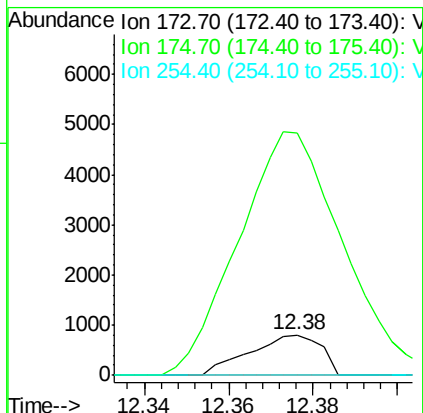
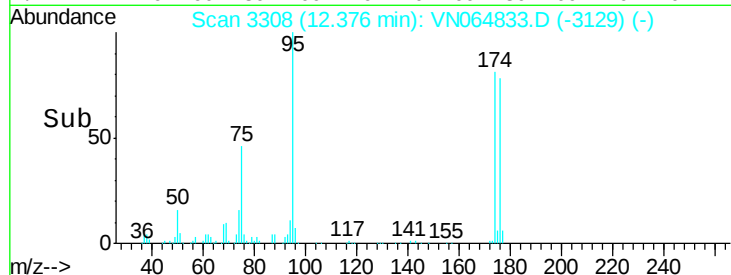
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN064833.D

Acq: 25 Nov 2020 1:06

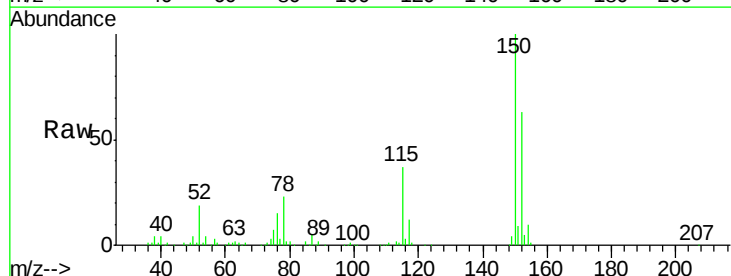
Tgt Ion:152 Resp: 136015

Ion Ratio Lower Upper

152 100

115 58.9 29.7 89.1

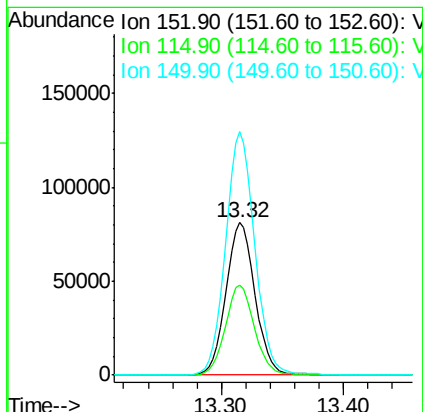
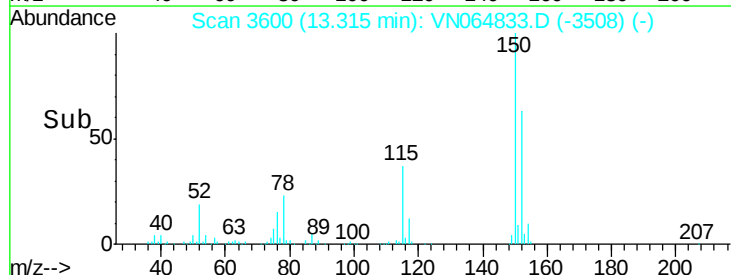
150 159.5 0.0 350.6

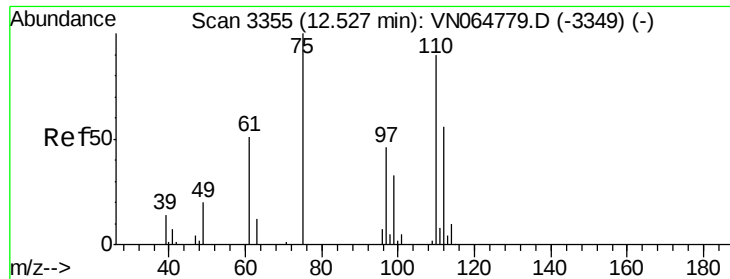


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.744 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN064833.D

Acq: 25 Nov 2020 1:06

Instrument :

MSVOA_N

ClientSampleId :

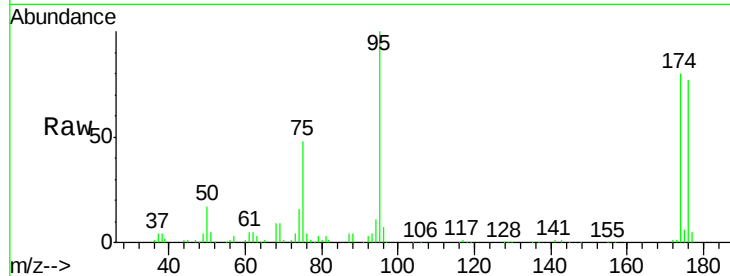
45BR-20201118

Tot Ion: 75 Resp: 66621

Ion Ratio Lower Upper

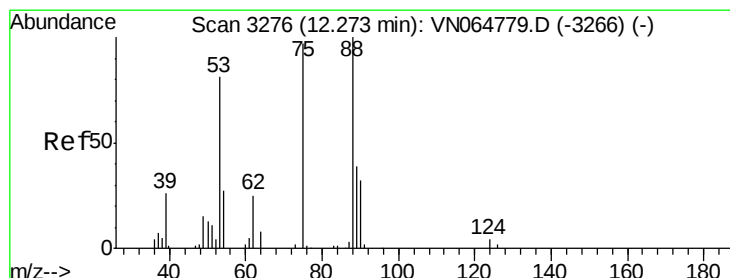
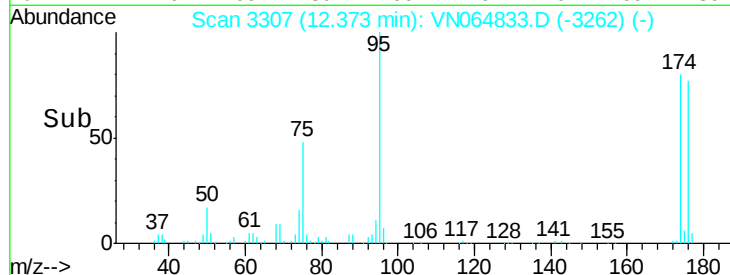
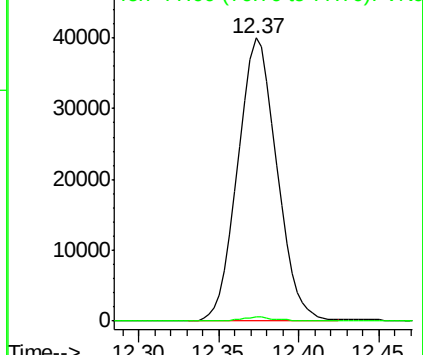
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 62.335 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN064833.D

Acq: 25 Nov 2020 1:06

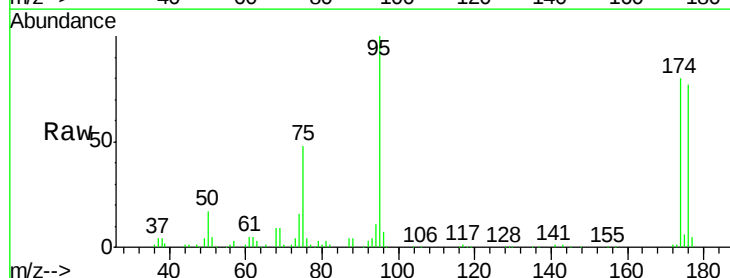
Tgt Ion: 75 Resp: 66621

Ion Ratio Lower Upper

75 100

53 0.0 67.0 100.4#

89 0.0 39.6 59.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

