

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102120\
 Data File : VN064221.D
 Acq On : 21 Oct 2020 15:06
 Operator : JC/MD
 Sample : L4418-02DL 20X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB-2020-WW-000-02DL

Quant Time: Oct 22 01:48:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N102120W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 21 12:48:40 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	263133	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	454287	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	454859	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	207775	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	197864	50.63	ug/l	0.00
Spiked Amount			Recovery	=	101.26%	
35) Dibromofluoromethane	7.55	113	149443	49.48	ug/l	0.00
Spiked Amount			Recovery	=	98.96%	
50) Toluene-d8	10.06	98	565592	51.62	ug/l	0.00
Spiked Amount			Recovery	=	103.24%	
62) 4-Bromofluorobenzene	12.38	95	248101	55.86	ug/l	0.00
Spiked Amount			Recovery	=	111.72%	

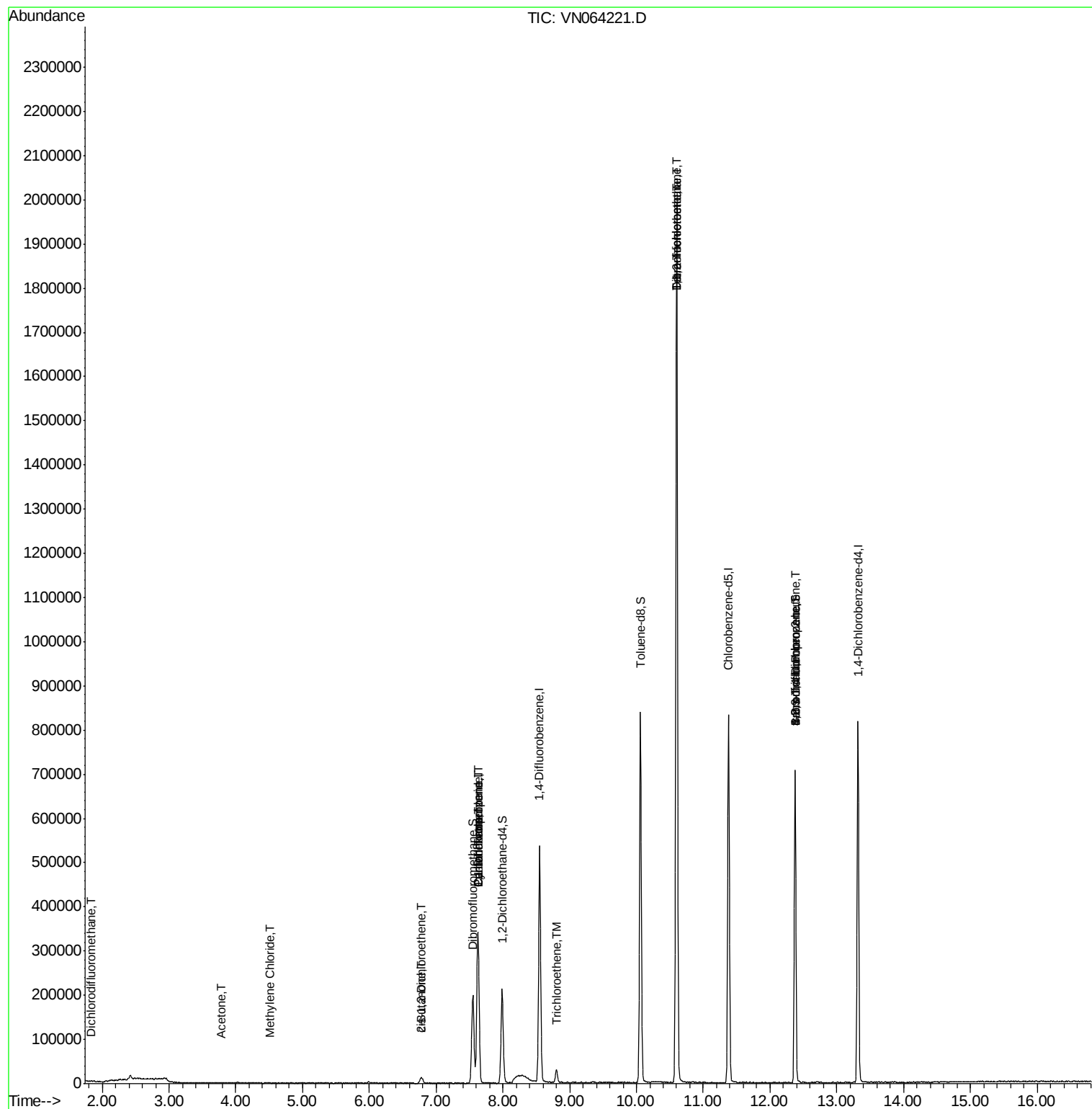
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.84	85	160	0.835	ug/l #	41
16) Acetone	3.79	43	1112	0.995	ug/l #	49
20) Methylene Chloride	4.51	84	623	0.209	ug/l #	71
25) 2-Butanone	6.77	43	477	0.269	ug/l #	51
27) cis-1,2-Dichloroethene	6.77	96	1701	0.537	ug/l #	1
31) Cyclohexane	7.62	56	6846	1.478	ug/l #	27
36) 1,1-Dichloropropene	7.62	75	22634	4.998	ug/l #	51
38) Carbon Tetrachloride	7.63	117	28888	5.606	ug/l #	14
44) Trichloroethene	8.80	130	10126	2.972	ug/l	96
55) 1,1,2-Trichloroethane	10.60	97	4527	1.498	ug/l #	41
60) Dibromochloromethane	10.60	129	411165	105.126	ug/l #	11
64) Tetrachloroethene	10.60	164	428214	116.938	ug/l	97
71) Bromoform	12.38	173	1079	0.374	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	132432	30.234	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	132432	76.332	ug/l #	9

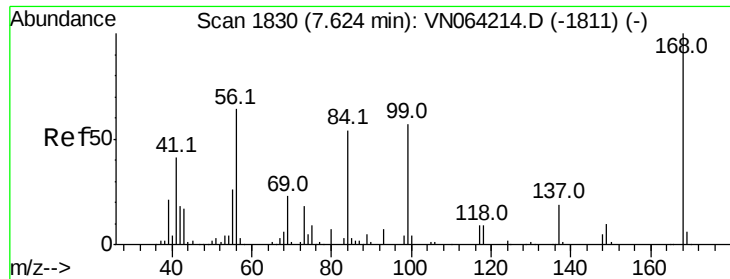
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064221.D

Acq: 21 Oct 2020 15:06

Instrument :

MSVOA_N

ClientSampleId :

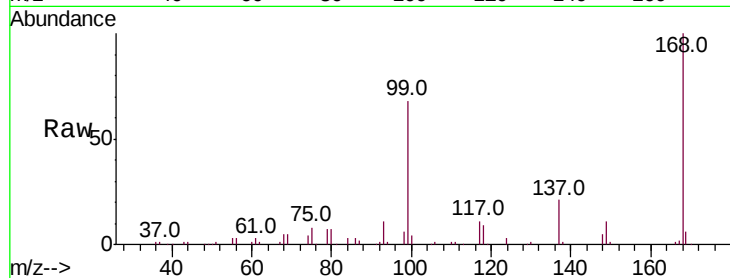
PB-2020-WW-000-02DL

Tot Ion:168 Resp: 263133

Ion Ratio Lower Upper

168 100

99 67.8 54.0 81.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63

120000

100000

80000

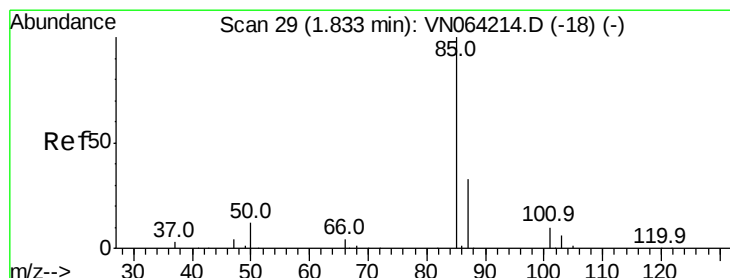
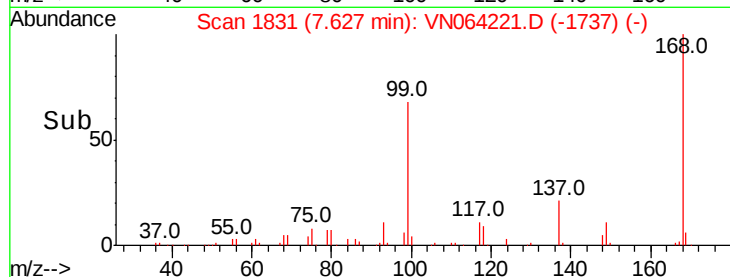
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#2

Dichlorodifluoromethane

Concen: 0.835 ug/l

RT: 1.84 min Scan# 30

Delta R.T. 0.00 min

Lab File: VN064221.D

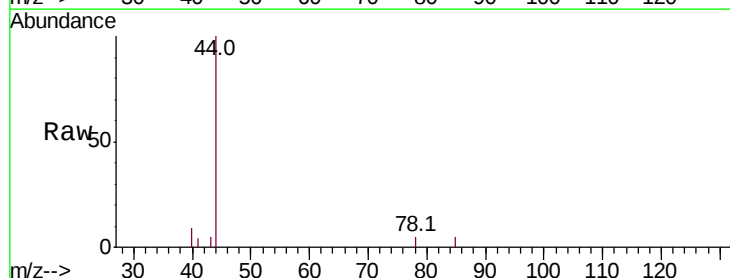
Acq: 21 Oct 2020 15:06

Tgt Ion: 85 Resp: 160

Ion Ratio Lower Upper

85 100

87 0.0 16.6 49.8#



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0

1.84

250

200

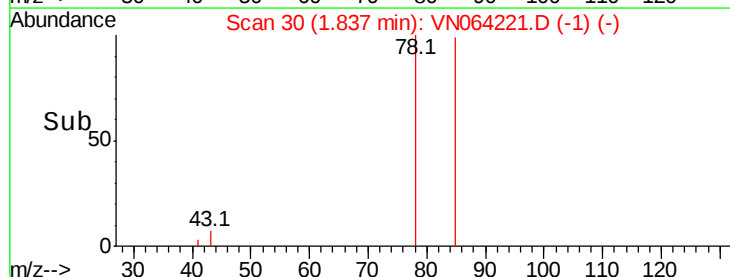
150

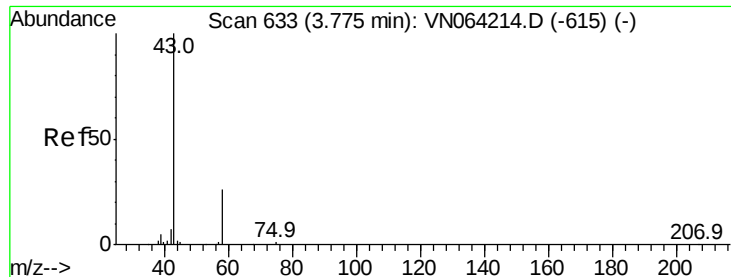
100

50

0

Time--> 1.82 1.83 1.84 1.85





#16

Acetone

Concen: 0.995 ug/l

RT: 3.79 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN064221.D

Acq: 21 Oct 2020 15:06

Instrument :

MSVOA_N

ClientSampleId :

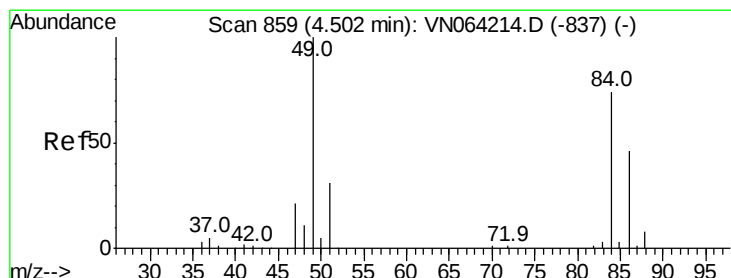
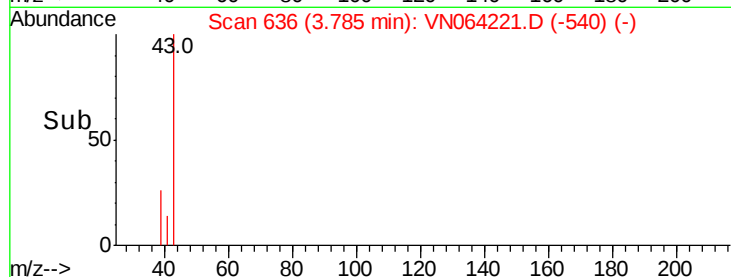
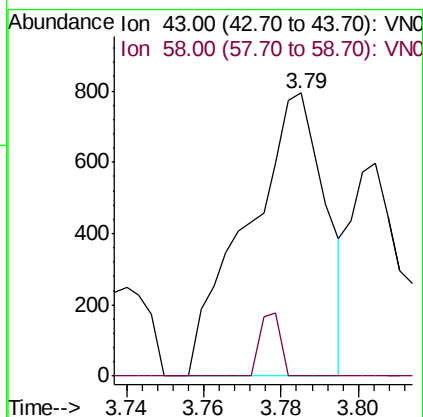
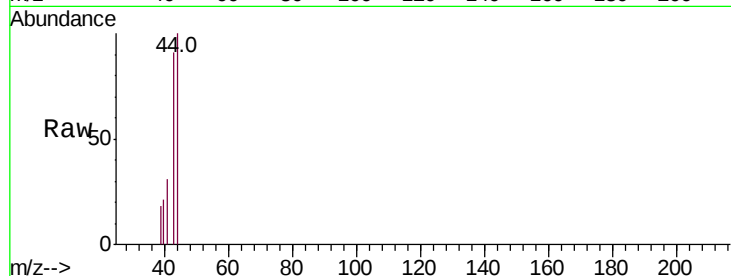
PB-2020-WW-000-02DL

Tot Ion: 43 Resp: 1112

Ion Ratio Lower Upper

43 100

58 0.0 21.0 31.4#



#20

Methylene Chloride

Concen: 0.209 ug/l

RT: 4.51 min Scan# 862

Delta R.T. 0.01 min

Lab File: VN064221.D

Acq: 21 Oct 2020 15:06

Tgt Ion: 84 Resp: 623

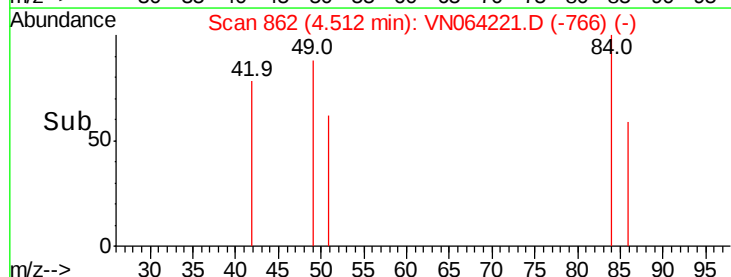
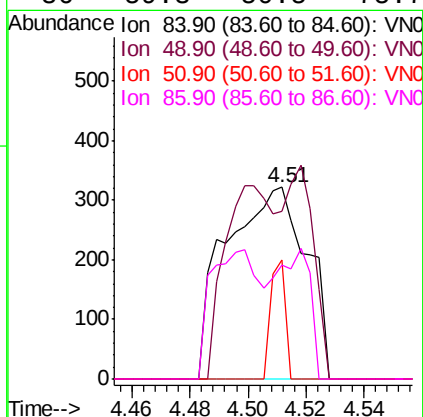
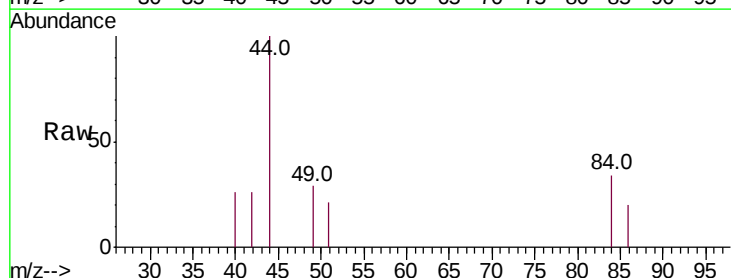
Ion Ratio Lower Upper

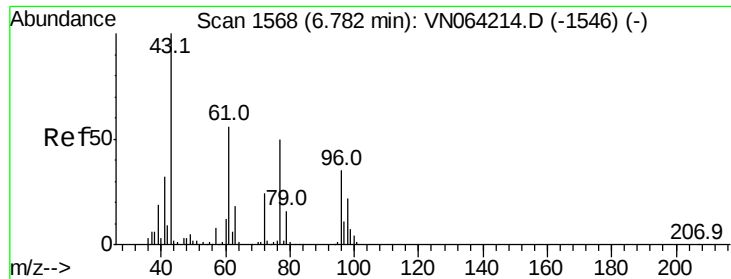
84 100

49 87.6 108.5 162.7#

51 62.1 33.8 50.8#

86 59.3 50.5 75.7





#25

2-Butanone

Concen: 0.269 ug/l

RT: 6.77 min Scan# 1565

Delta R.T. -0.01 min

Lab File: VN064221.D

Acq: 21 Oct 2020 15:06

Instrument :

MSVOA_N

ClientSampleId :

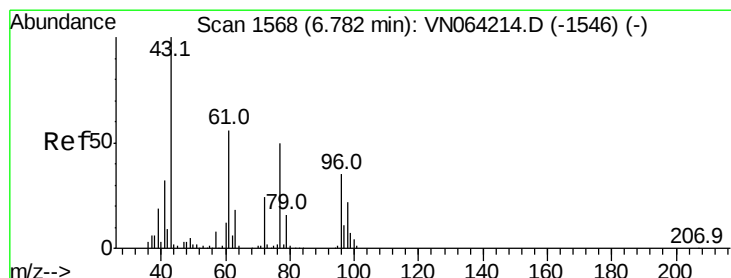
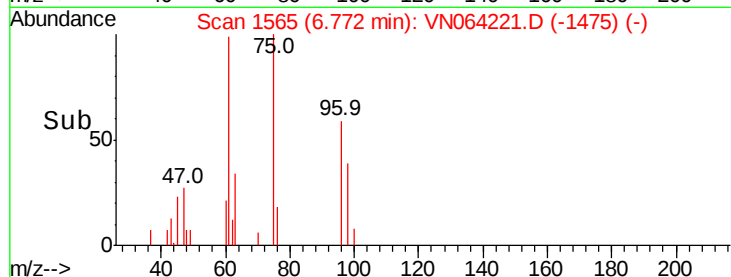
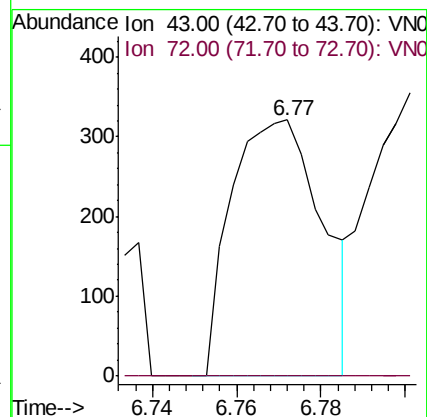
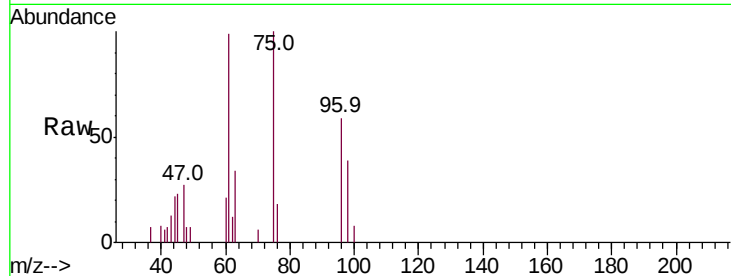
PB-2020-WW-000-02DL

Tot Ion: 43 Resp: 477

Ion Ratio Lower Upper

43 100

72 0.0 19.4 29.0#



#27

cis-1,2-Dichloroethene

Concen: 0.537 ug/l

RT: 6.77 min Scan# 1564

Delta R.T. -0.01 min

Lab File: VN064221.D

Acq: 21 Oct 2020 15:06

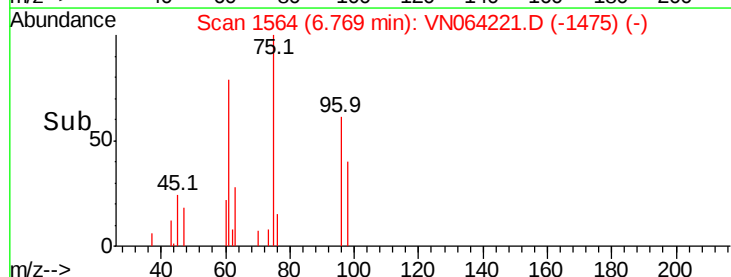
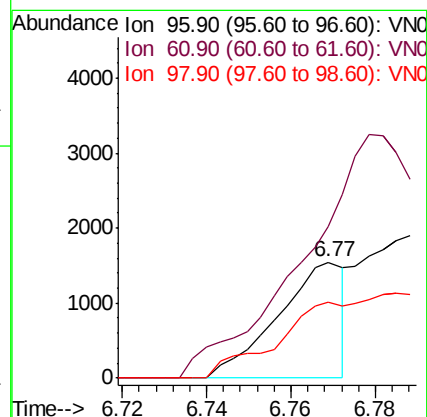
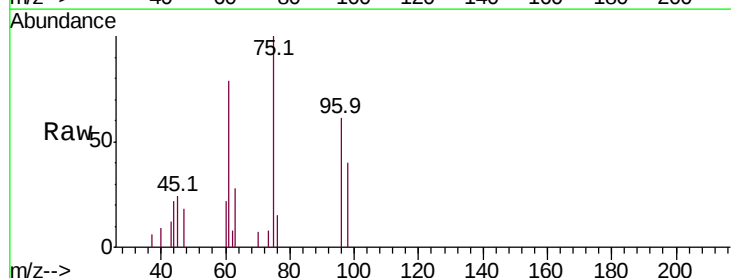
Tgt Ion: 96 Resp: 1701

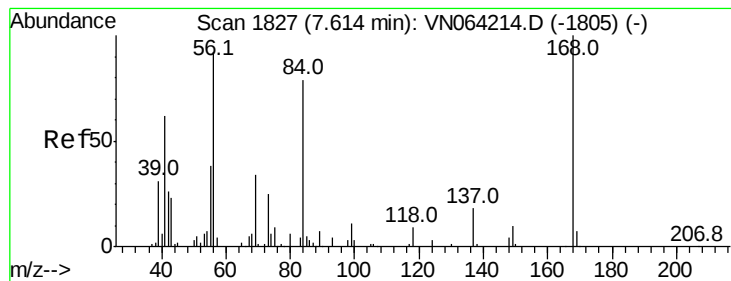
Ion Ratio Lower Upper

96 100

61 499.4 0.0 330.0#

98 67.0 0.0 130.6





#31

Cyclohexane

Concen: 1.478 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN064221.D

Acq: 21 Oct 2020 15:06

Instrument :

MSVOA_N

ClientSampleId :

PB-2020-WW-000-02DL

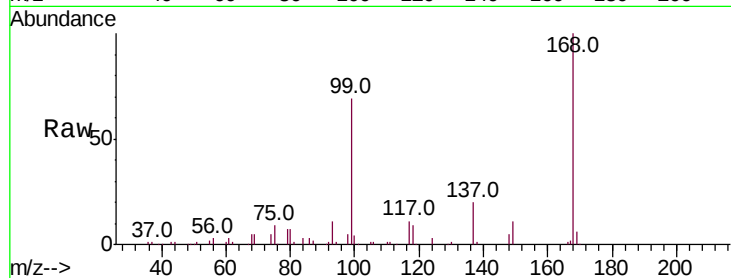
Tot Ion: 56 Resp: 6846

Ion Ratio Lower Upper

56 100

69 169.3 29.8 44.6#

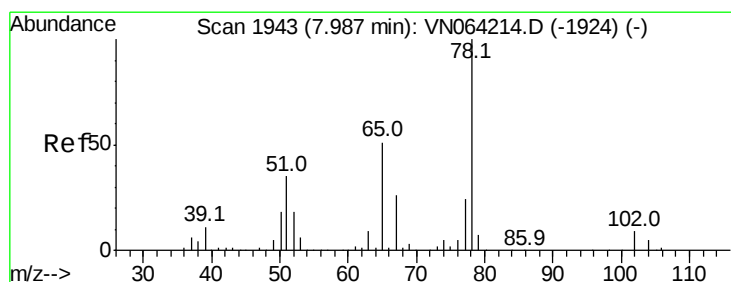
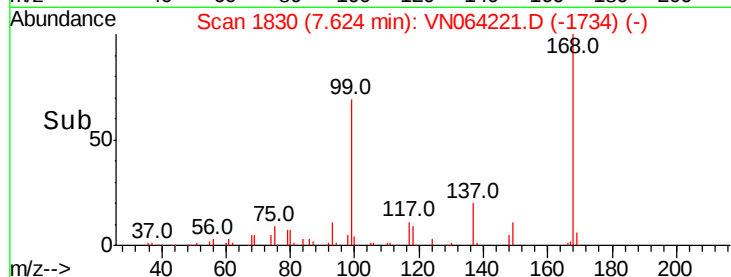
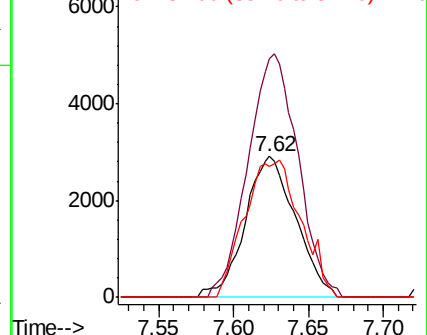
84 92.8 68.1 102.1



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 84.00 (83.70 to 84.70): VNO



#33

1,2-Dichloroethane-d4

Concen: 50.634 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN064221.D

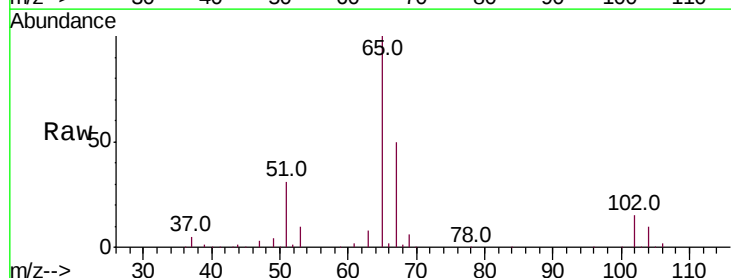
Acq: 21 Oct 2020 15:06

Tgt Ion: 65 Resp: 197864

Ion Ratio Lower Upper

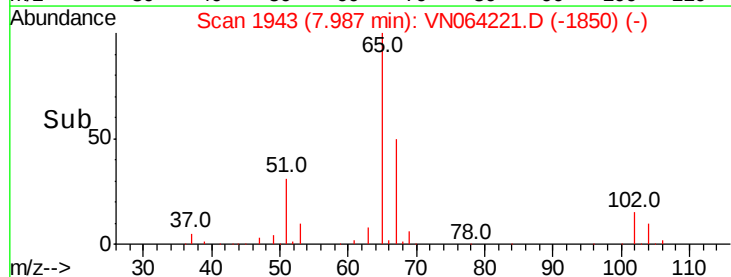
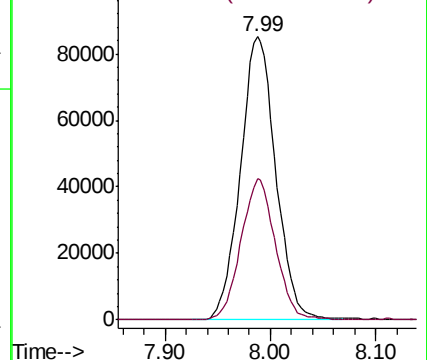
65 100

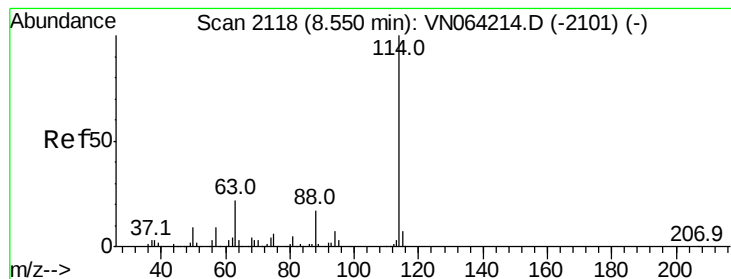
67 48.6 0.0 100.2



Abundance Ion 64.90 (64.60 to 65.60): VNO

Ion 66.90 (66.60 to 67.60): VNO





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN064221.D

Acq: 21 Oct 2020 15:06

Instrument :

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ClientSampleId :

PB-2020-WW-000-02DL

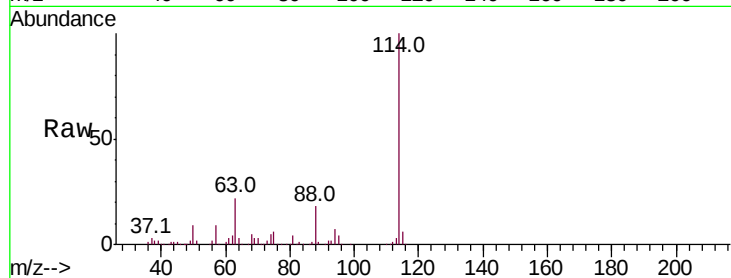
Tot Ion:114 Resp: 454287

Ion Ratio Lower Upper

114 100

63 22.1 0.0 44.0

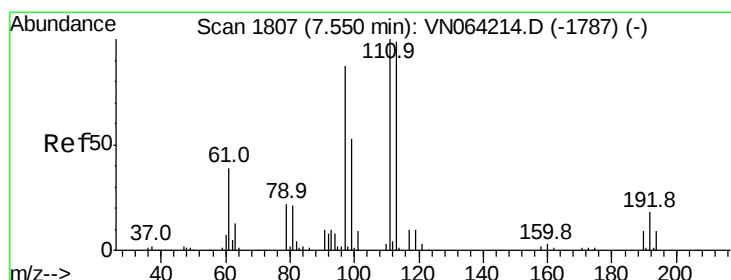
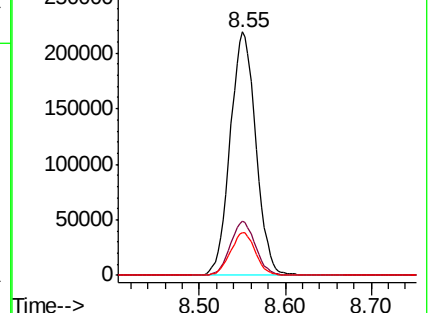
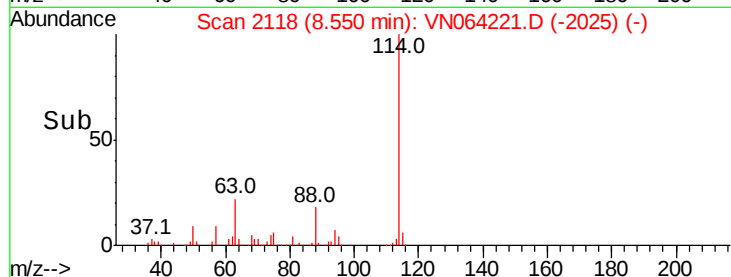
88 17.6 0.0 34.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 49.479 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN064221.D

Acq: 21 Oct 2020 15:06

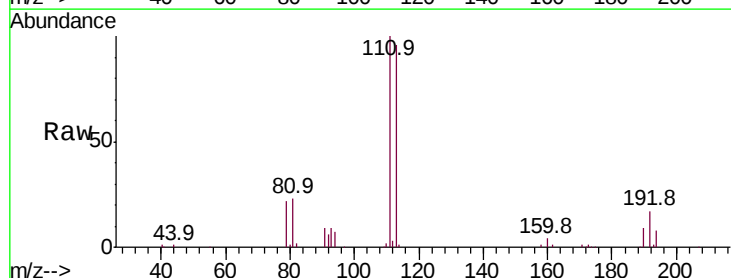
Tgt Ion:113 Resp: 149443

Ion Ratio Lower Upper

113 100

111 101.6 84.2 126.2

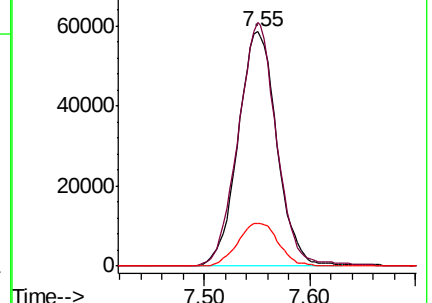
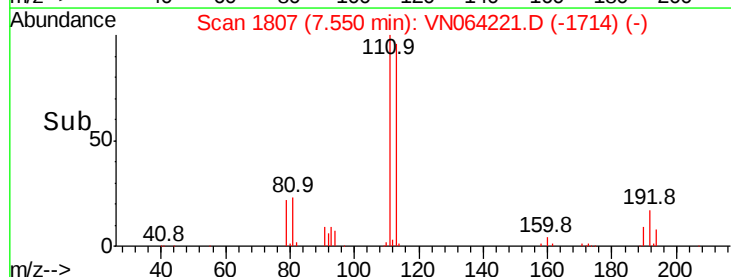
192 19.1 15.2 22.8

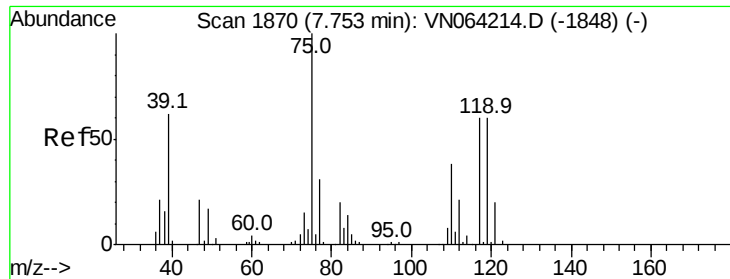


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.998 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. -0.13 min

Lab File: VN064221.D

Acq: 21 Oct 2020 15:06

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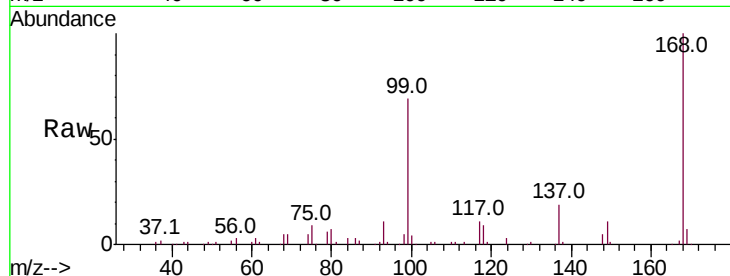
Tot Ion: 75 Resp: 22634

Ion Ratio Lower Upper

75 100

110 9.5 17.2 51.6#

77 0.0 24.9 37.3#



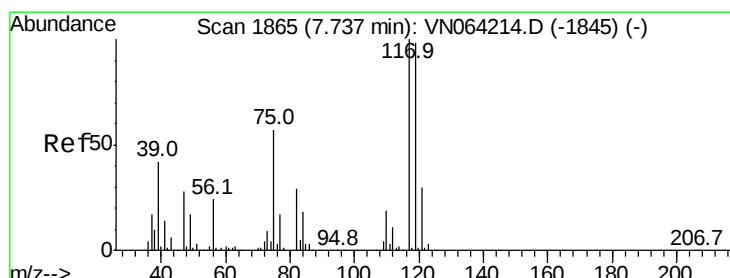
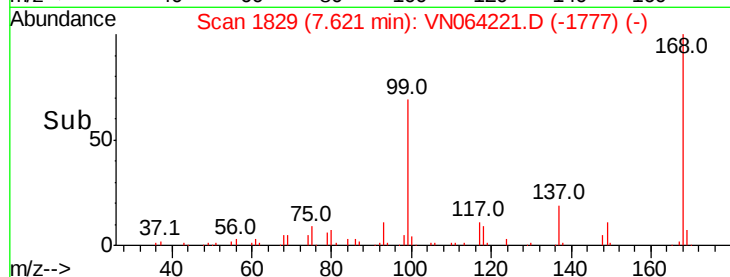
Abundance Ion 74.90 (74.60 to 75.60): VN064214.D (-1848) (-)

Ion 109.90 (109.60 to 110.60): VN064214.D (-1848) (-)

Ion 76.90 (76.60 to 77.60): VN064214.D (-1848) (-)

7.62

Time-->



#38

Carbon Tetrachloride

Concen: 5.606 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN064221.D

Acq: 21 Oct 2020 15:06

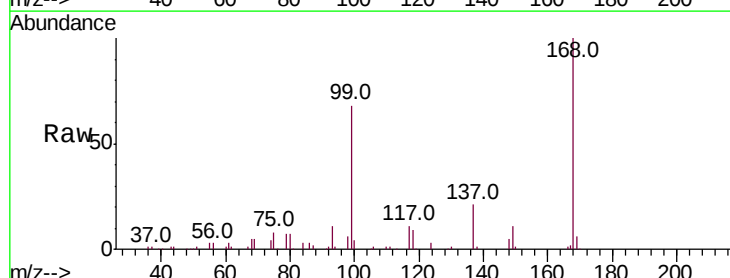
Tgt Ion: 117 Resp: 28888

Ion Ratio Lower Upper

117 100

119 3.9 78.5 117.7#

121 0.0 24.3 36.5#



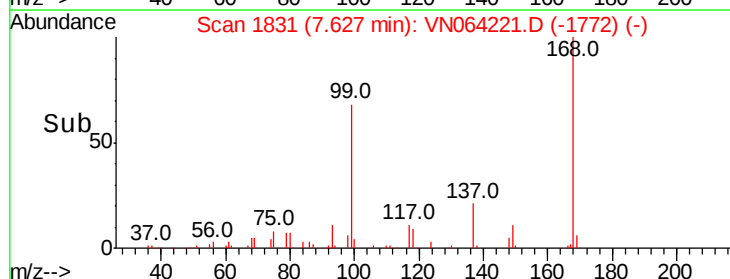
Abundance Ion 116.80 (116.50 to 117.50): VN064214.D (-1845) (-)

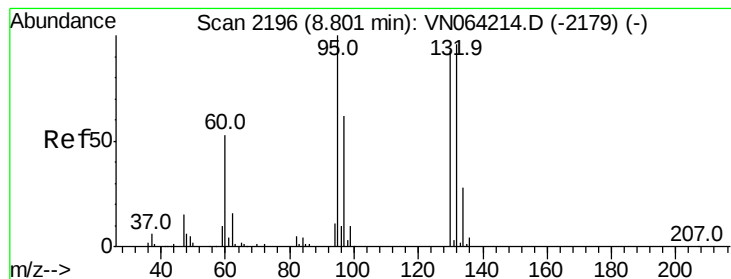
Ion 118.80 (118.50 to 119.50): VN064214.D (-1845) (-)

Ion 120.80 (120.50 to 121.50): VN064214.D (-1845) (-)

7.63

Time-->





#44

Trichloroethene

Concen: 2.972 ug/l

RT: 8.80 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN064221.D

Acq: 21 Oct 2020 15:06

Instrument :

MSVOA_N

ClientSampleId :

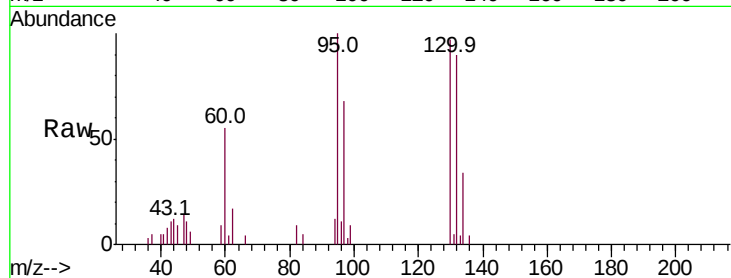
PB-2020-WW-000-02DL

Tot Ion:130 Resp: 10126

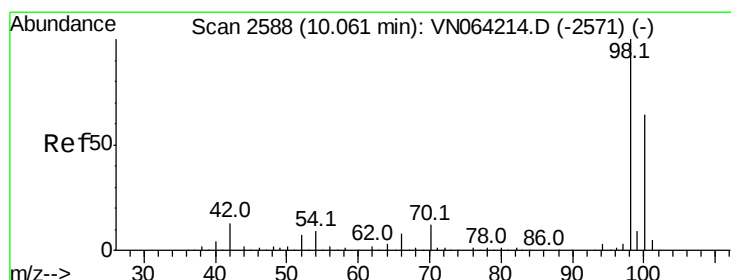
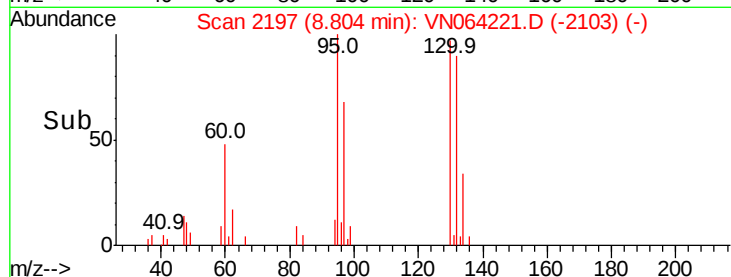
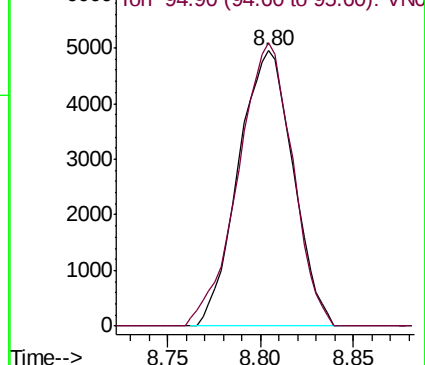
Ion Ratio Lower Upper

130 100

95 102.8 0.0 214.0



Abundance Ion 129.80 (129.50 to 130.50): VN064221.D (-2197) (-)



#50

Toluene-d8

Concen: 51.623 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN064221.D

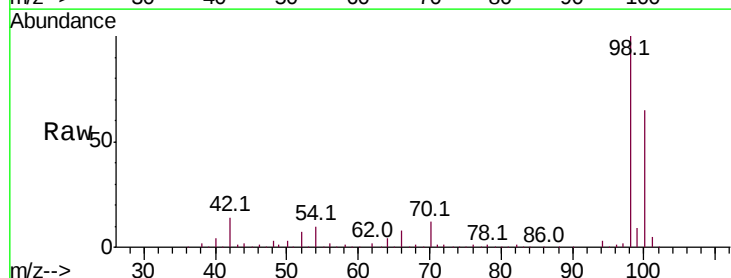
Acq: 21 Oct 2020 15:06

Tgt Ion: 98 Resp: 565592

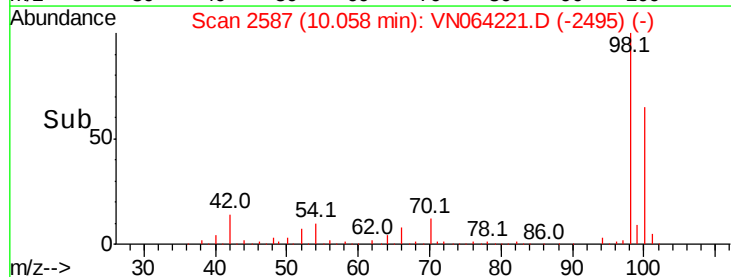
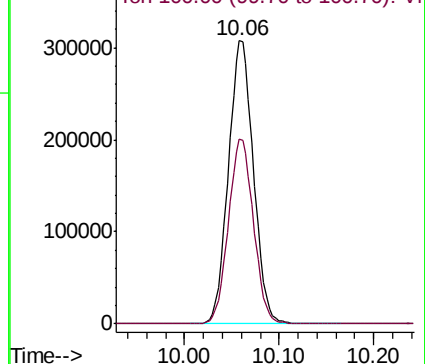
Ion Ratio Lower Upper

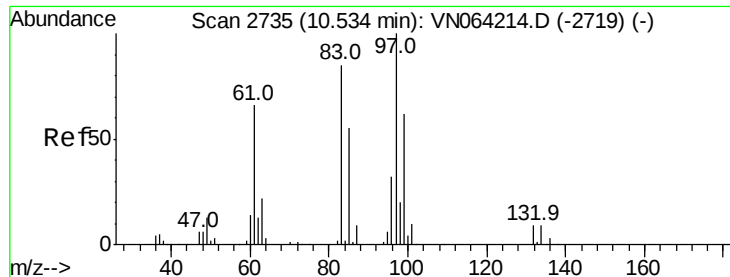
98 100

100 65.4 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VN064221.D (-2587) (-)





#55

1,1,2-Trichloroethane

Concen: 1.498 ug/l

RT: 10.60 min Scan# 2757

Delta R.T. 0.07 min

Lab File: VN064221.D

Acq: 21 Oct 2020 15:06

Instrument :

MSVOA_N

ClientSampleId :

PB-2020-WW-000-02DL

Tot Ion: 97 Resp: 4527

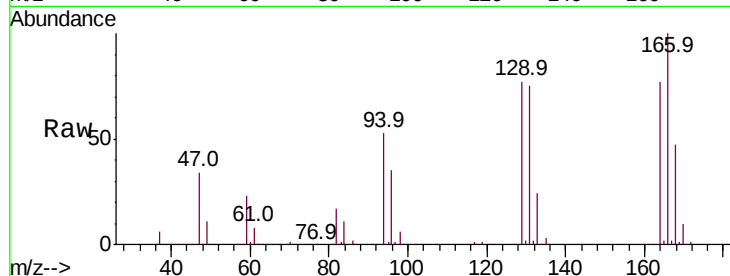
Ion Ratio Lower Upper

97 100

83 159.0 67.8 101.6#

85 35.3 43.6 65.4#

99 19.2 49.9 74.9#

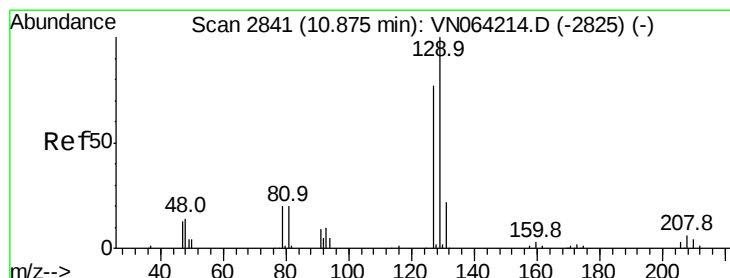
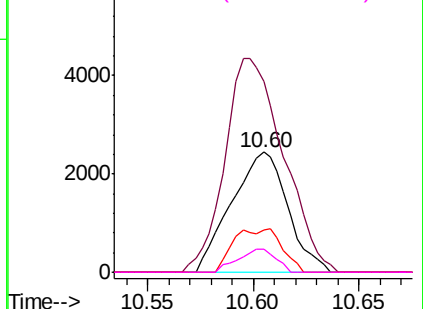
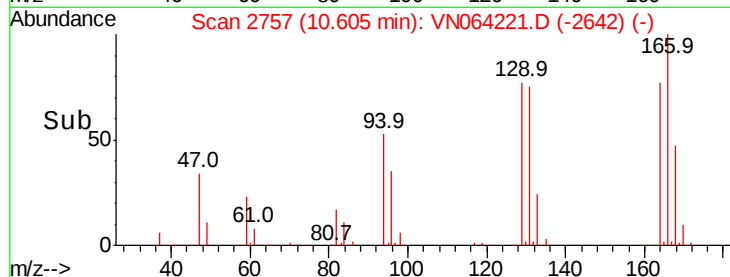


Abundance Ion 96.90 (96.60 to 97.60): VN0

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



#60

Dibromochloromethane

Concen: 105.126 ug/l

RT: 10.60 min Scan# 2756

Delta R.T. -0.27 min

Lab File: VN064221.D

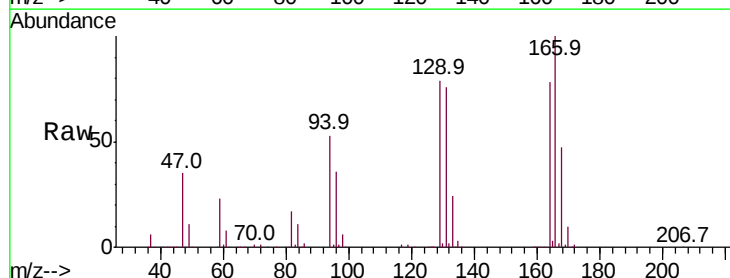
Acq: 21 Oct 2020 15:06

Tgt Ion: 129 Resp: 411165

Ion Ratio Lower Upper

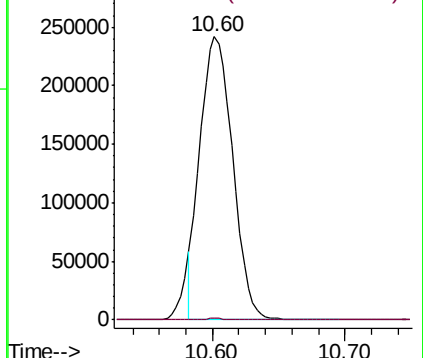
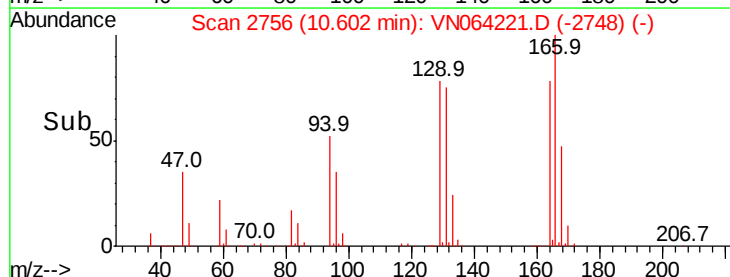
129 100

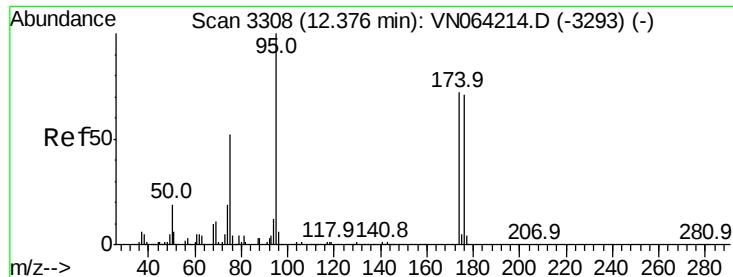
127 0.3 38.8 116.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 55.859 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064221.D

Acq: 21 Oct 2020 15:06

Instrument :

MSVOA_N

ClientSampleId :

PB-2020-WW-000-02DL

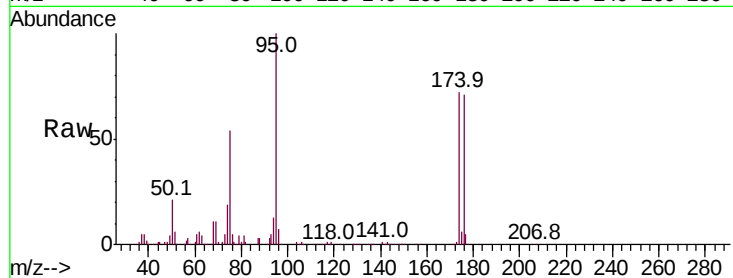
Tot Ion: 95 Resp: 248101

Ion Ratio Lower Upper

95 100

174 71.4 0.0 144.4

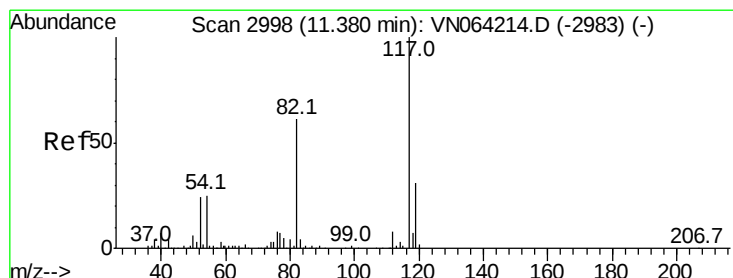
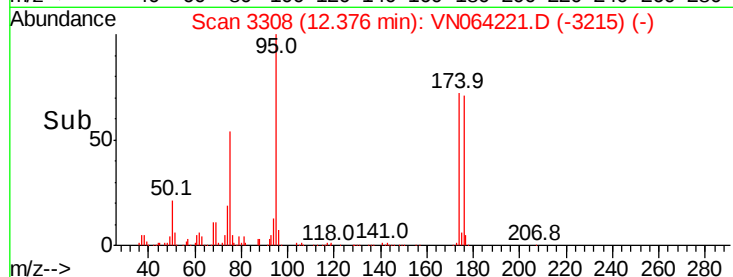
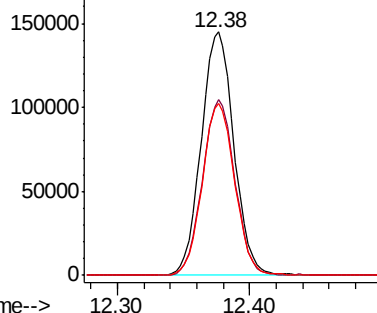
176 70.0 0.0 139.2



Abundance Ion 94.90 (94.60 to 95.60): VN064221.D (-3293) (-)

Ion 173.80 (173.50 to 174.50): VN064221.D (-3293) (-)

Ion 175.80 (175.50 to 176.50): VN064221.D (-3293) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN064221.D

Acq: 21 Oct 2020 15:06

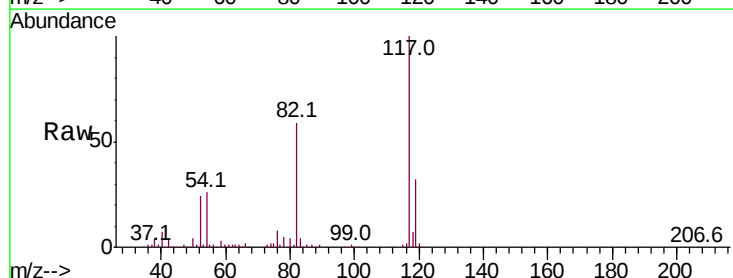
Tgt Ion: 117 Resp: 454859

Ion Ratio Lower Upper

117 100

82 59.0 48.8 73.2

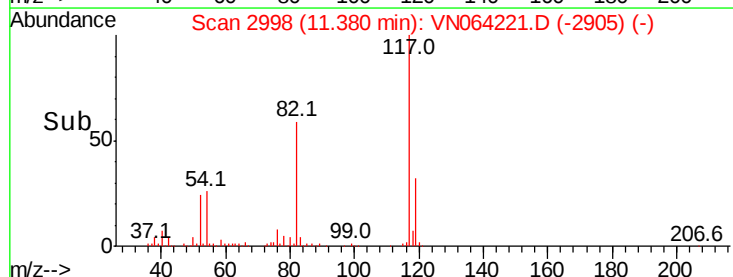
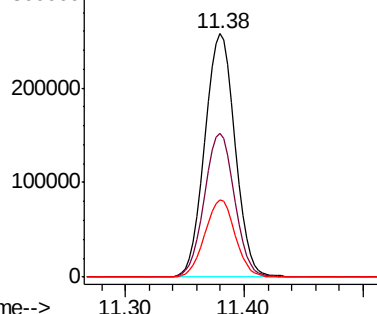
119 31.7 24.7 37.1

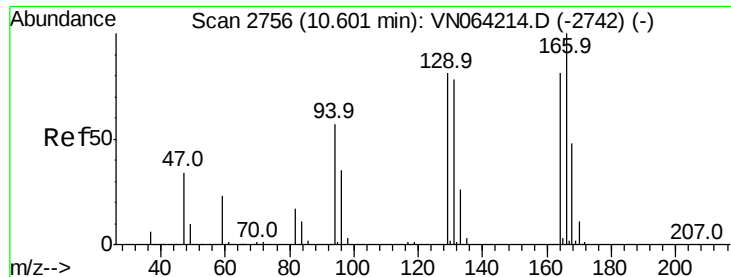


Abundance Ion 116.90 (116.60 to 117.60): VN064221.D (-2983) (-)

Ion 82.00 (81.70 to 82.70): VN064221.D (-2983) (-)

Ion 118.90 (118.60 to 119.60): VN064221.D (-2983) (-)





#64

Tetrachloroethene

Concen: 116.938 ug/l

RT: 10.60 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VN064221.D

Acq: 21 Oct 2020 15:06

Instrument :

MSVOA_N

ClientSampleId :

PB-2020-WW-000-02DL

Tot Ion:164 Resp: 428214

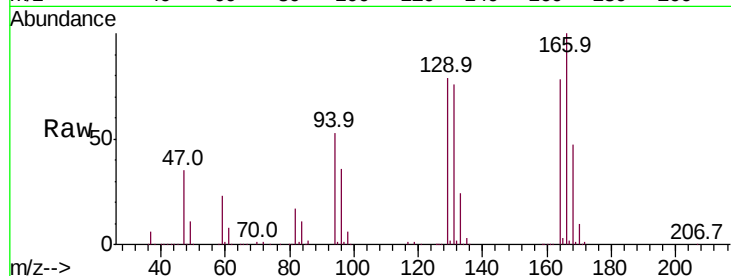
Ion Ratio Lower Upper

164 100

166 128.9 98.9 148.3

129 101.5 79.9 119.9

131 98.6 76.7 115.1

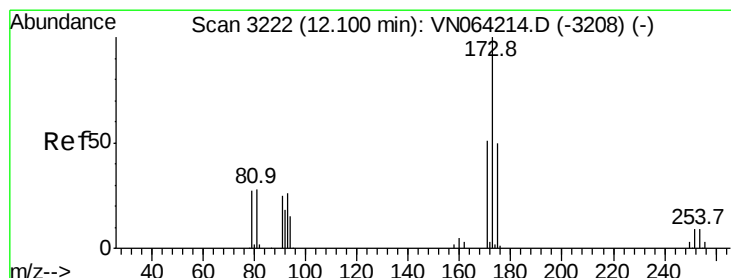
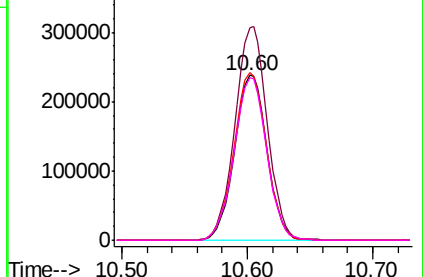
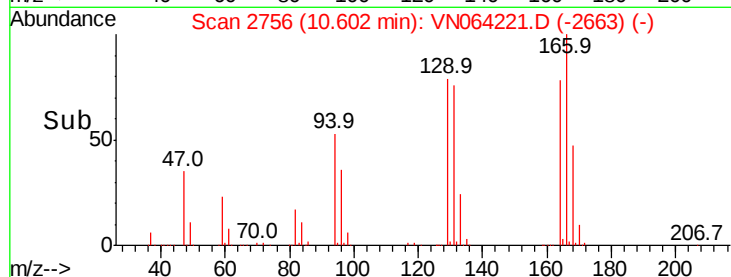


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#71

Bromoform

Concen: 0.374 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.28 min

Lab File: VN064221.D

Acq: 21 Oct 2020 15:06

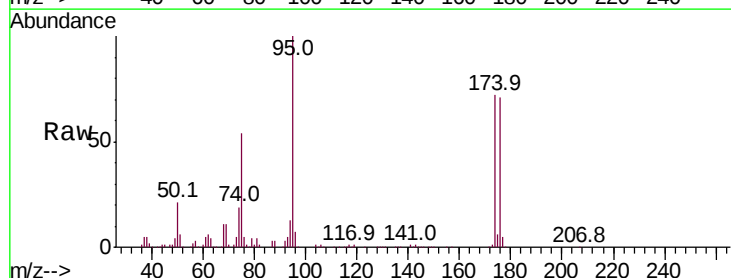
Tgt Ion:173 Resp: 1079

Ion Ratio Lower Upper

173 100

175 1103.2 25.1 75.3#

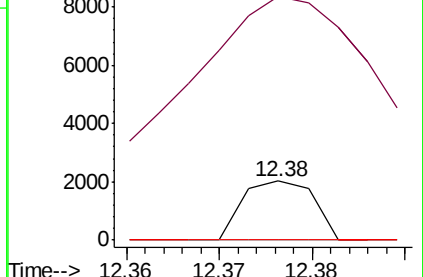
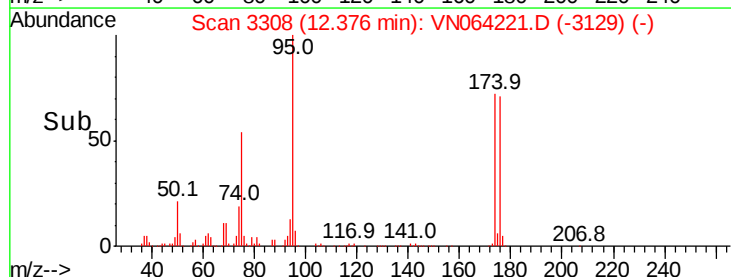
254 0.0 0.0 0.0

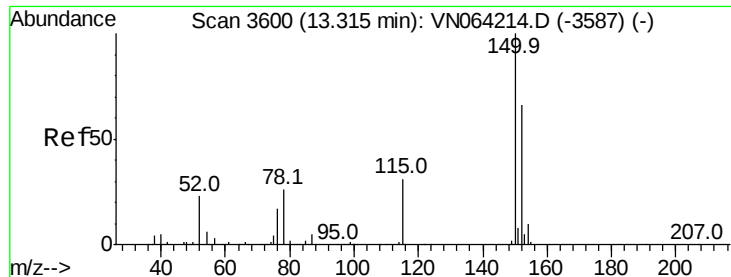


Abundance Ion 172.70 (172.40 to 173.40): V

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# 3601

Delta R.T. 0.00 min

Lab File: VN064221.D

Acq: 21 Oct 2020 15:06

Instrument :

MSVOA_N

ClientSampleId :

PB-2020-WW-000-02DL

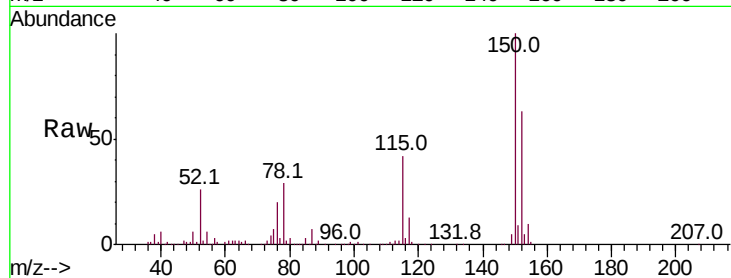
Tot Ion:152 Resp: 207775

Ion Ratio Lower Upper

152 100

115 63.7 32.0 96.2

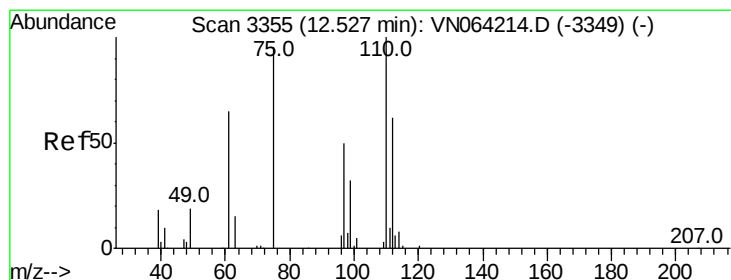
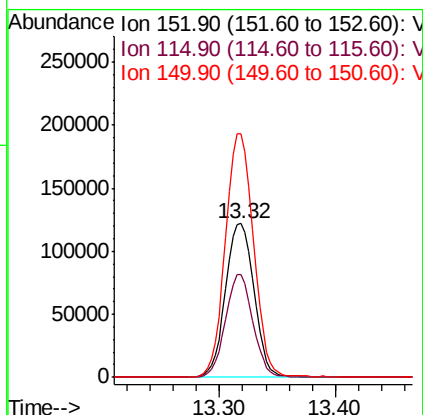
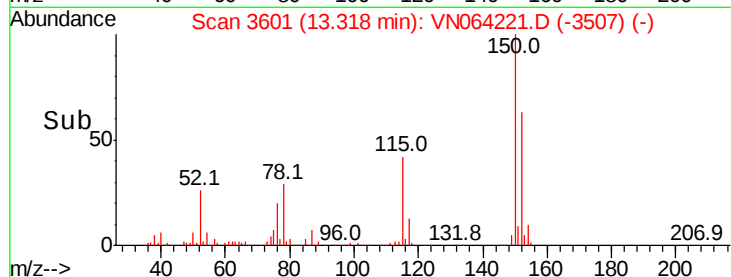
150 155.8 0.0 356.6



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: 30.234 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064221.D

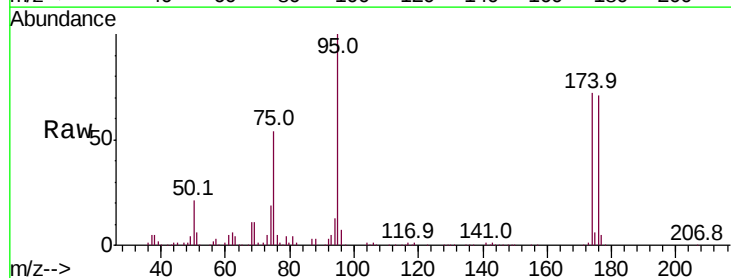
Acq: 21 Oct 2020 15:06

Tgt Ion: 75 Resp: 132432

Ion Ratio Lower Upper

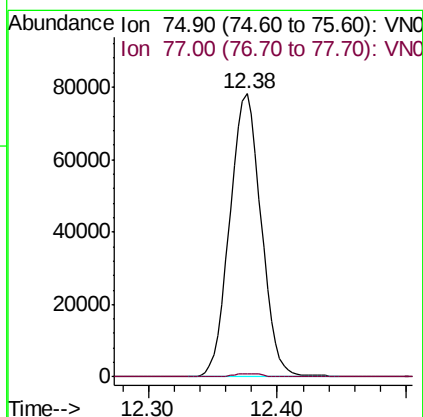
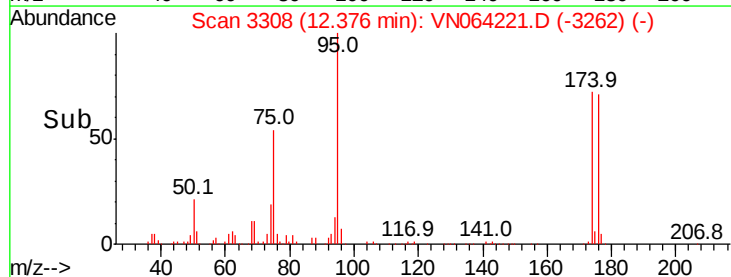
75 100

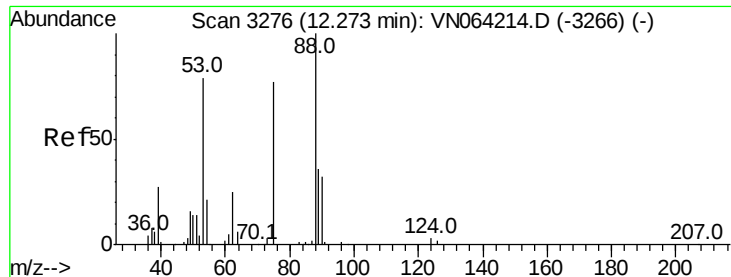
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 76.332 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064221.D

Acq: 21 Oct 2020 15:06

Instrument :

MSVOA_N

ClientSampleId :

PB-2020-WW-000-02DL

Tot Ion: 75 Resp: 132432

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.4#

89 0.0 38.7 58.1#

