

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112420\
 Data File : VN064832.D
 Acq On : 25 Nov 2020 00:42
 Operator : JC/MD
 Sample : L4798-05 25X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 29BR-20201118

Quant Time: Nov 25 05:58:22 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	7.62	168	161774	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	286697	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	293860	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	134195	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	98988	52.63	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	105.26%
35) Dibromofluoromethane	7.55	113	91147	53.13	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	106.26%
50) Toluene-d8	10.06	98	358404	51.13	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	102.26%
62) 4-Bromofluorobenzene	12.37	95	137903	54.97	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	109.94%

Target Compounds

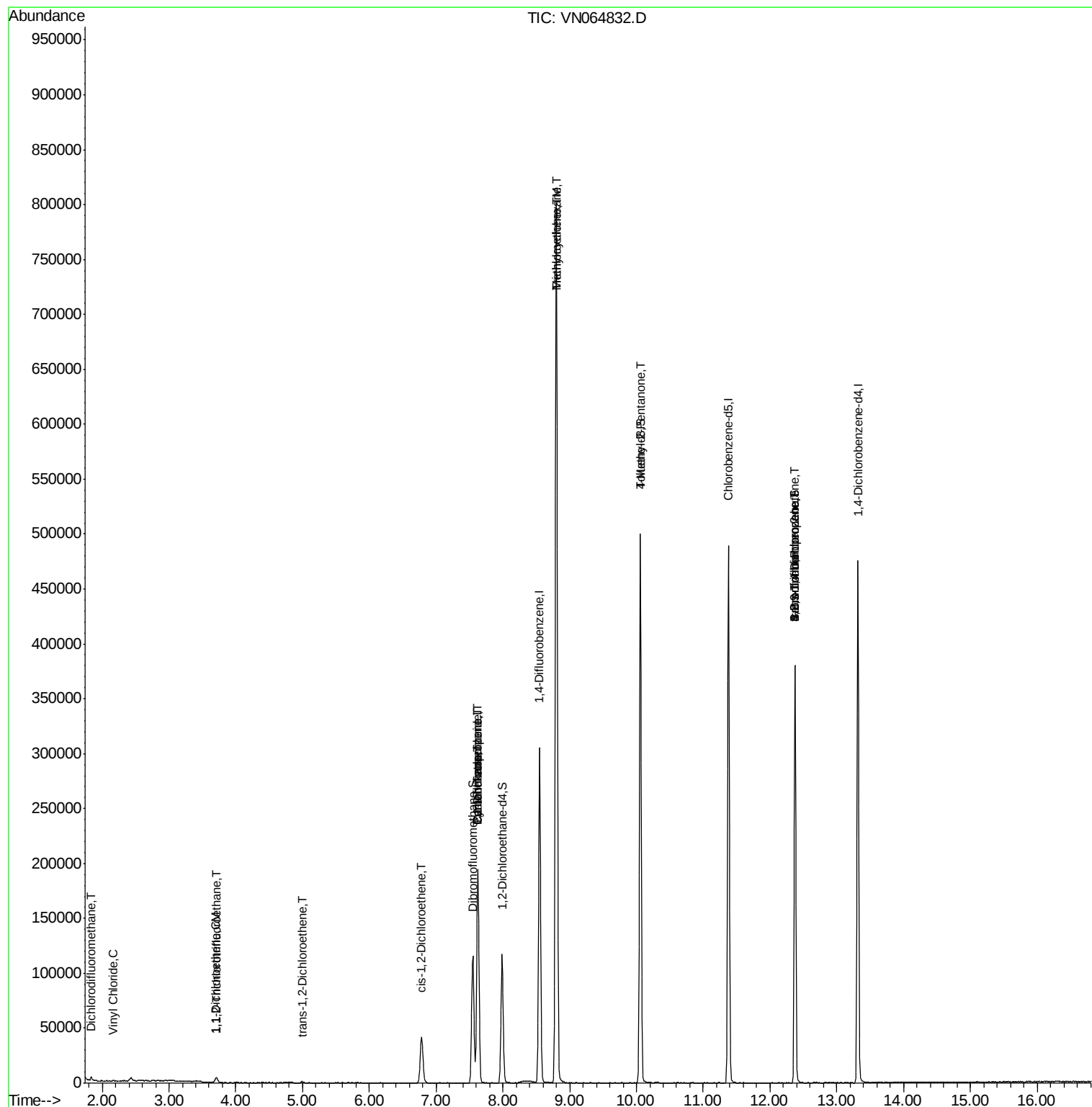
					Qvalue	
2) Dichlorodifluoromethane	1.83	85	2690	1.919	ug/l	97
4) Vinyl Chloride	2.17	62	834	0.439	ug/l #	86
9) 1,1,2-Trichlorotrifluoroet	3.72	101	2479	1.574	ug/l #	89
12) 1,1-Dichloroethene	3.70	96	1236	0.788	ug/l #	89
21) trans-1,2-Dichloroethene	5.00	96	850	0.488	ug/l #	71
27) cis-1,2-Dichloroethene	6.78	96	27361	13.958	ug/l	89
31) Cyclohexane	7.62	56	2885	1.101	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	11270	4.241	ug/l #	49
38) Carbon Tetrachloride	7.62	117	15494	5.604	ug/l #	17
39) Methylcyclohexane	8.80	83	3662	1.280	ug/l #	1
44) Trichloroethene	8.80	130	311085	129.475	ug/l	99
51) 4-Methyl-2-Pentanone	10.05	43	1368	0.553	ug/l #	1
71) Bromoform	12.38	173	1136	0.613	ug/l #	1
76) 1,2,3-Trichloropropane	12.37	75	65638	22.712	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	65638	62.248	ug/l #	15

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VN064832.D

Acq: 25 Nov 2020 00:42

Instrument :

MSVOA_N

ClientSampleId :

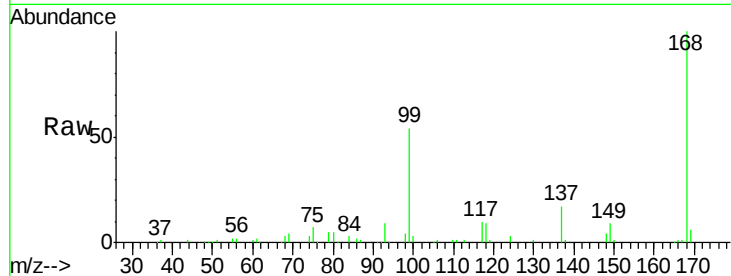
29BR-20201118

Tot Ion:168 Resp: 161774

Ion Ratio Lower Upper

168 100

99 54.2 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.62

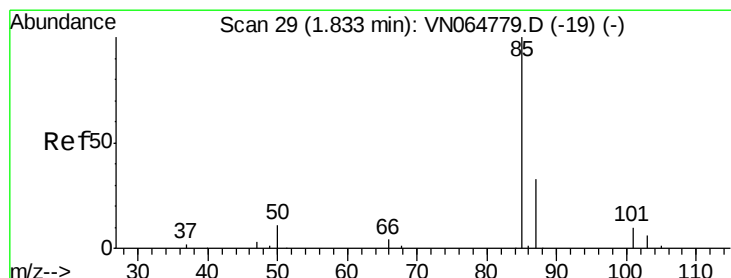
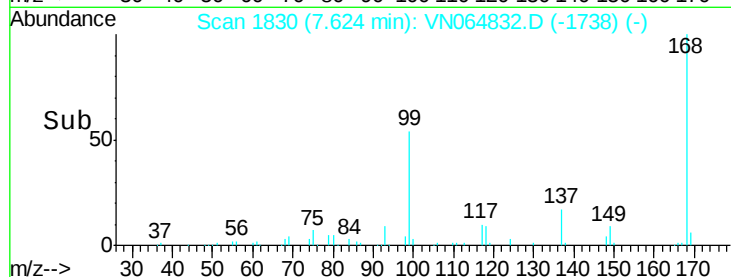
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#2

Dichlorodifluoromethane

Concen: 1.919 ug/l

RT: 1.83 min Scan# 29

Delta R.T. 0.00 min

Lab File: VN064832.D

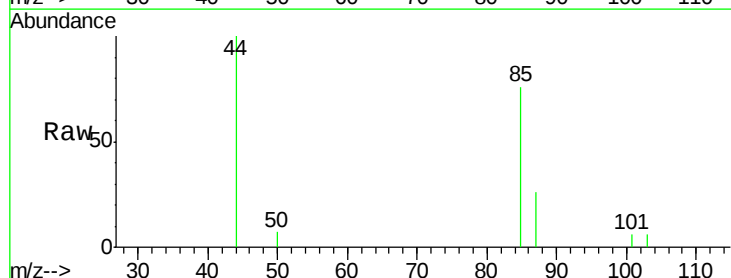
Acq: 25 Nov 2020 00:42

Tgt Ion: 85 Resp: 2690

Ion Ratio Lower Upper

85 100

87 34.5 16.4 49.4



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.83

2500

2000

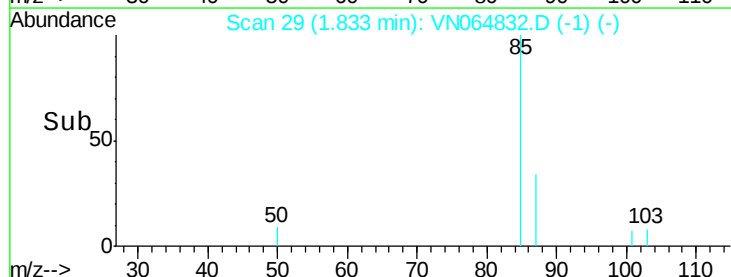
1500

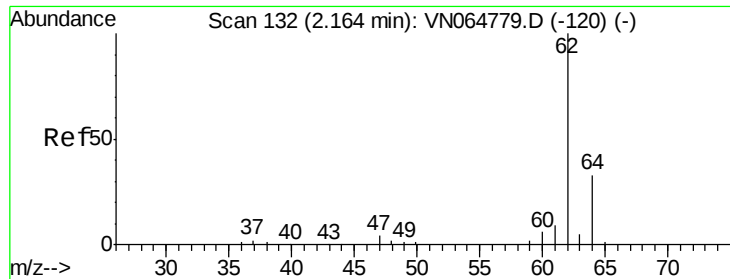
1000

500

0

Time--> 1.80 1.82 1.84 1.86 1.88





#4

Vinyl Chloride

Concen: 0.439 ug/l

RT: 2.17 min Scan# 134

Delta R.T. 0.01 min

Lab File: VN064832.D

Acq: 25 Nov 2020 00:42

Instrument :

MSVOA_N

ClientSampleId :

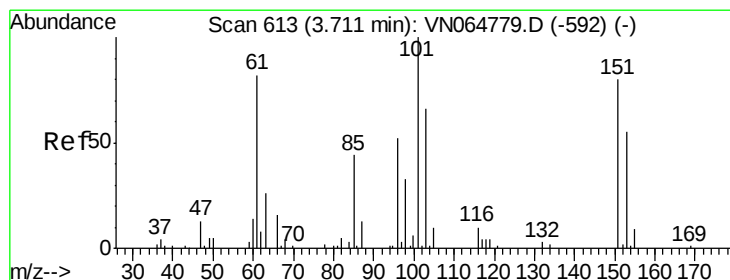
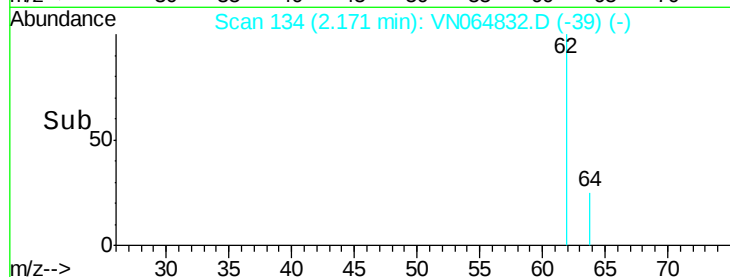
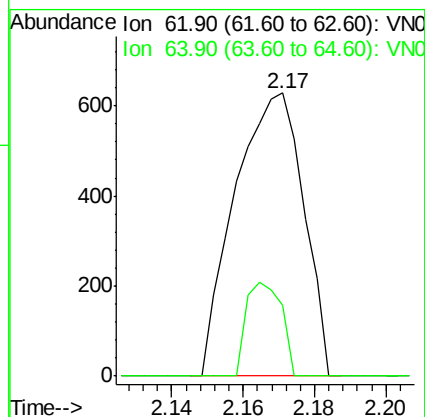
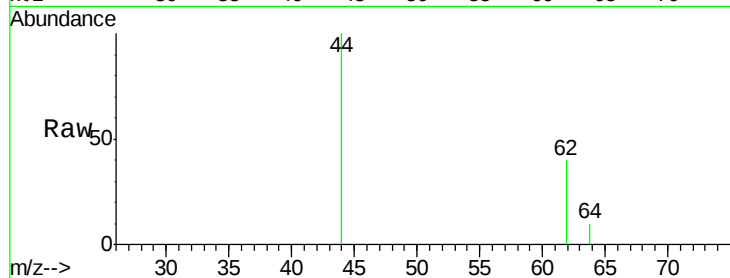
29BR-20201118

Tot Ion: 62 Resp: 834

Ion Ratio Lower Upper

62 100

64 25.2 26.5 39.7#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.574 ug/l

RT: 3.72 min Scan# 615

Delta R.T. 0.01 min

Lab File: VN064832.D

Acq: 25 Nov 2020 00:42

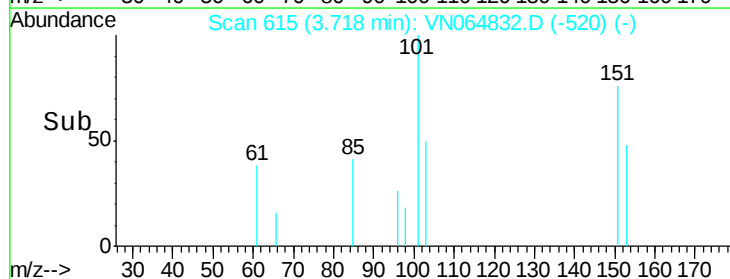
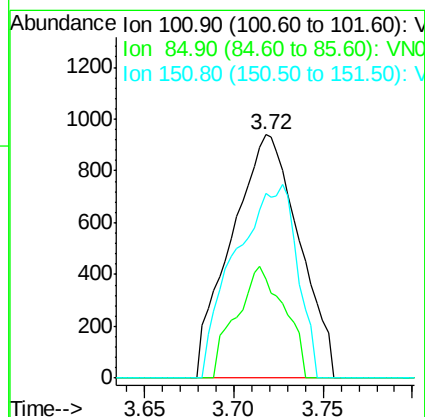
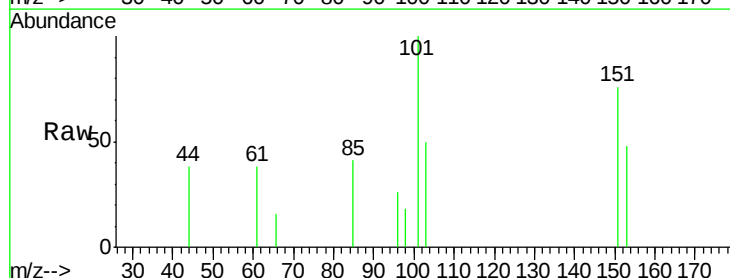
Tgt Ion: 101 Resp: 2479

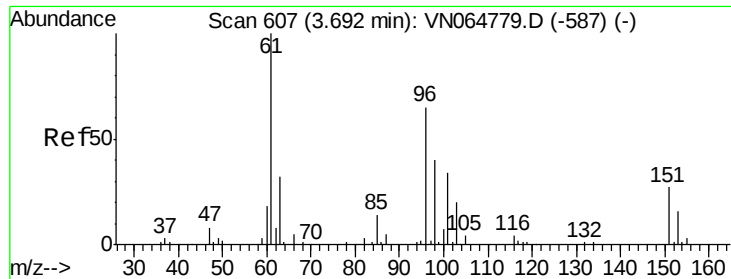
Ion Ratio Lower Upper

101 100

85 32.6 34.4 51.6#

151 73.0 64.0 96.0





#12

1,1-Dichloroethene

Concen: 0.788 ug/l

RT: 3.70 min Scan# 608

Delta R.T. 0.00 min

Lab File: VN064832.D

Acq: 25 Nov 2020 00:42

Instrument :

MSVOA_N

ClientSampleId :

29BR-20201118

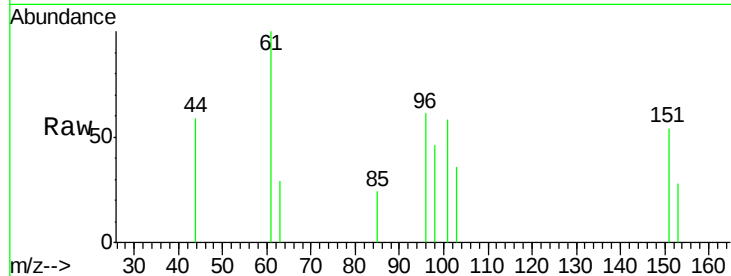
Tot Ion: 96 Resp: 1236

Ion Ratio Lower Upper

96 100

61 164.6 123.4 185.2

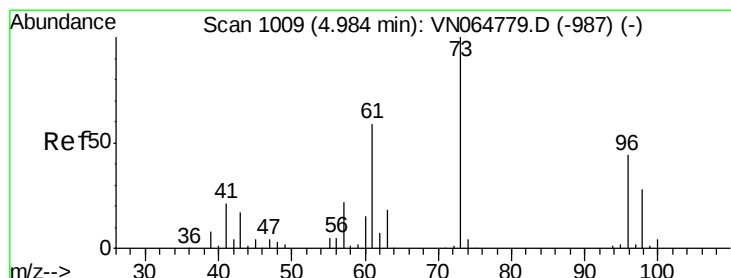
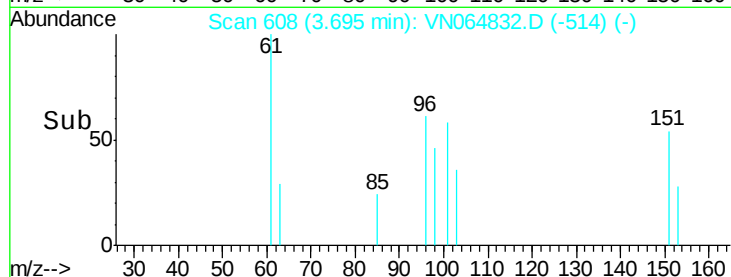
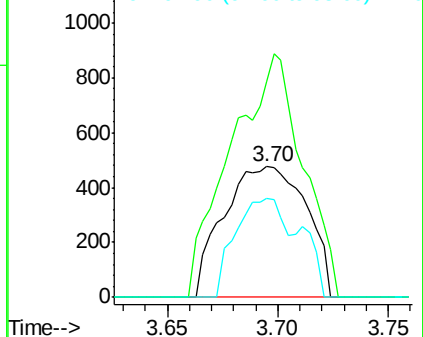
98 75.9 49.8 74.8#



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



#21

trans-1,2-Dichloroethene

Concen: 0.488 ug/l

RT: 5.00 min Scan# 1013

Delta R.T. 0.01 min

Lab File: VN064832.D

Acq: 25 Nov 2020 00:42

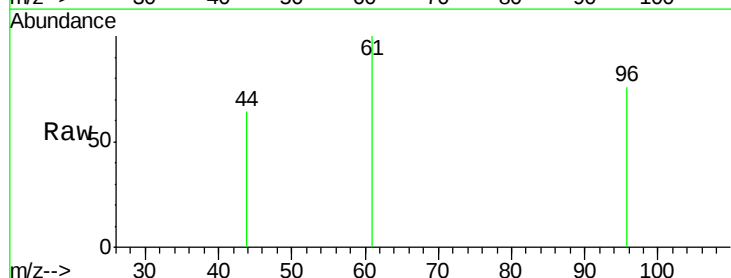
Tgt Ion: 96 Resp: 850

Ion Ratio Lower Upper

96 100

61 130.8 108.4 162.6

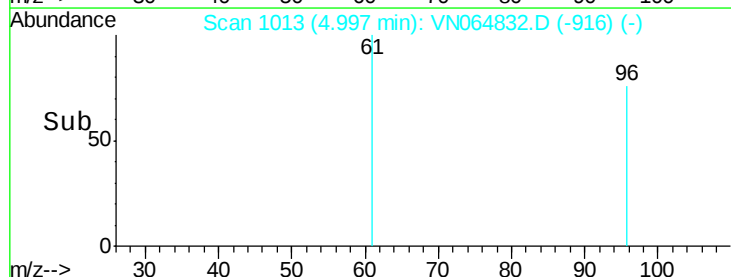
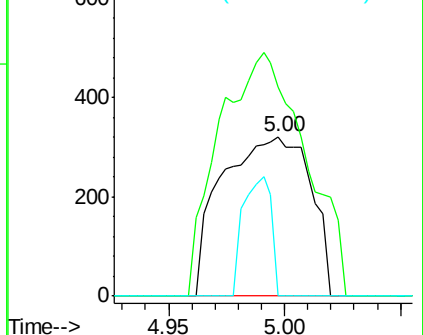
98 0.0 51.3 76.9#

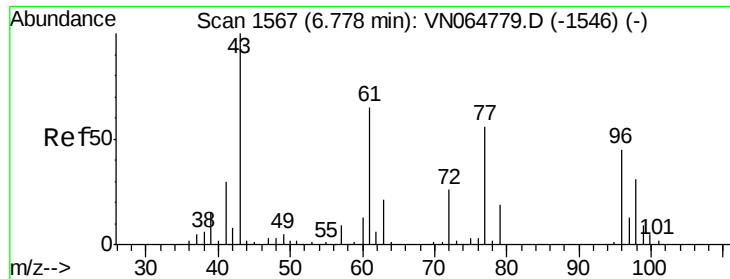


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#27

cis-1,2-Dichloroethene

Concen: 13.958 ug/l

RT: 6.78 min Scan# 1568

Delta R.T. 0.00 min

Lab File: VN064832.D

Acq: 25 Nov 2020 00:42

Instrument :

MSVOA_N

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29BR-20201118

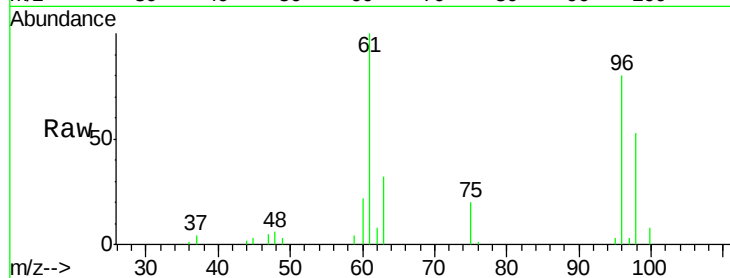
Tot Ion: 96 Resp: 27361

Ion Ratio Lower Upper

96 100

61 123.3 0.0 285.8

98 65.3 0.0 130.6

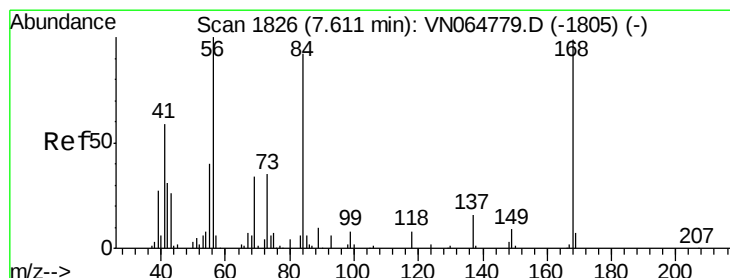
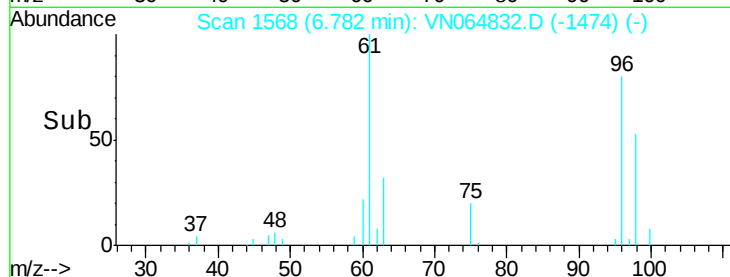
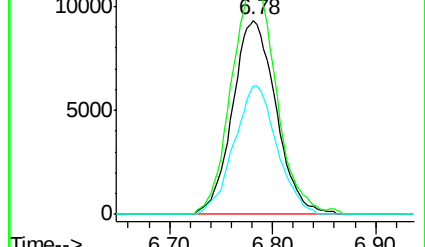


Abundance Ion 95.90 (95.60 to 96.60): VN064832.D (-1733) (-)

Ion 60.90 (60.60 to 61.60): VN064832.D (-1733) (-)

Ion 97.90 (97.60 to 98.60): VN064832.D (-1733) (-)

Time-->



#31

Cyclohexane

Concen: 1.101 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. 0.01 min

Lab File: VN064832.D

Acq: 25 Nov 2020 00:42

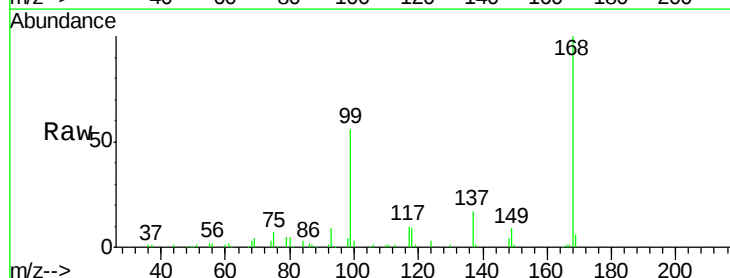
Tgt Ion: 56 Resp: 2885

Ion Ratio Lower Upper

56 100

69 201.8 27.5 41.3#

84 131.8 73.9 110.9#

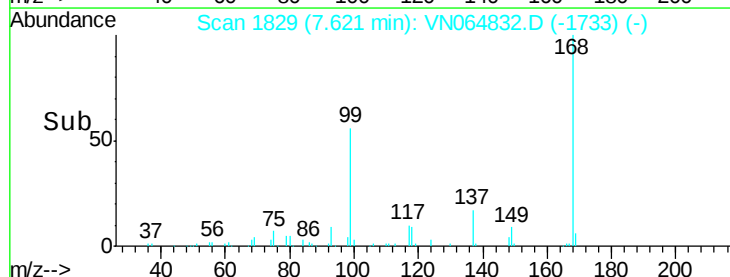
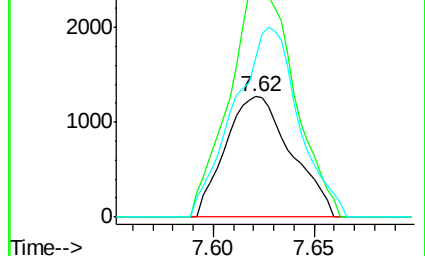


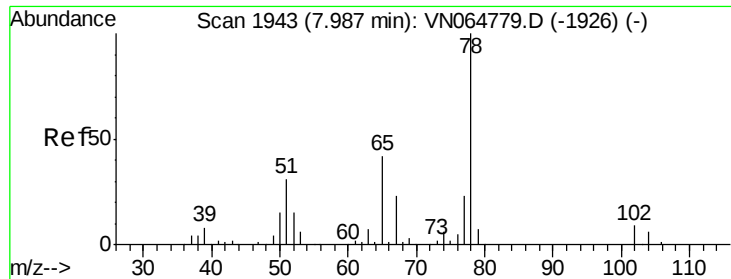
Abundance Ion 56.00 (55.70 to 56.70): VN064832.D (-1733) (-)

Ion 69.00 (68.70 to 69.70): VN064832.D (-1733) (-)

Ion 84.00 (83.70 to 84.70): VN064832.D (-1733) (-)

Time-->

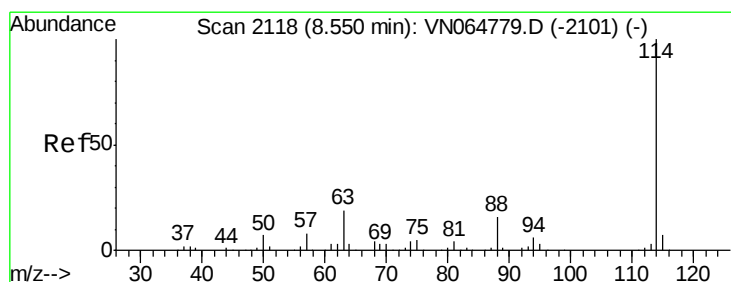
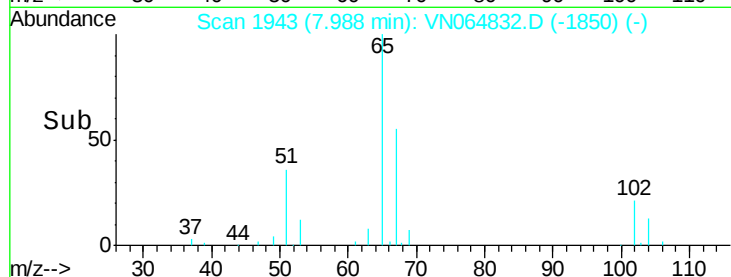
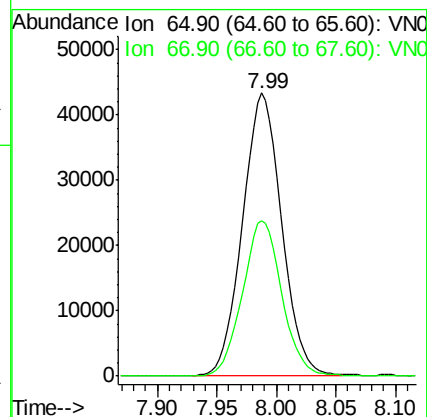
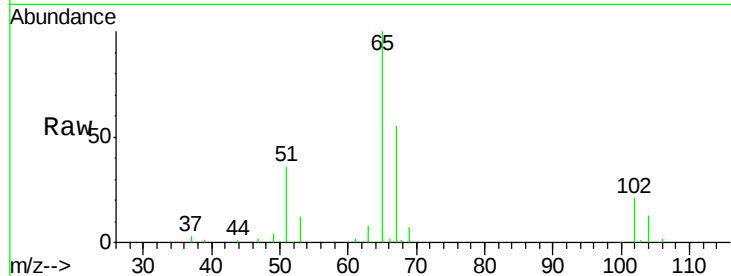




#33
 1,2-Dichloroethane-d4
 Concen: 52.633 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. 0.00 min
 Lab File: VN064832.D
 Acq: 25 Nov 2020 00:42

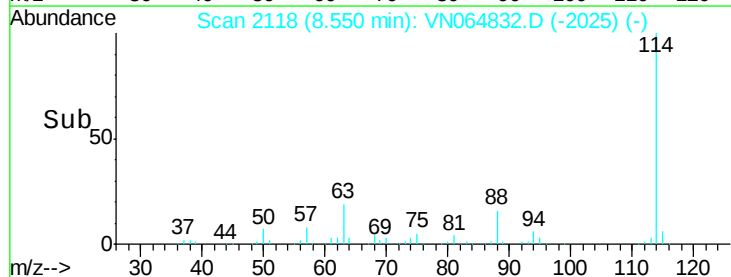
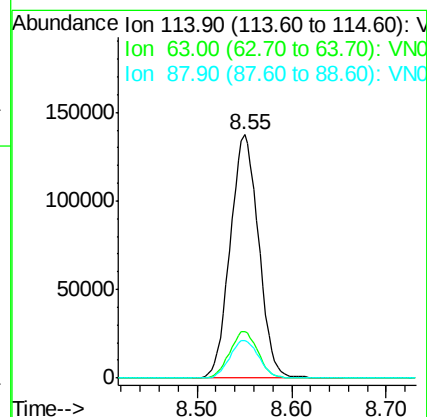
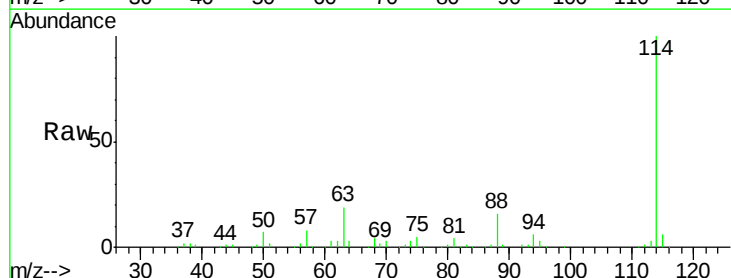
Instrument :
 MSVOA_N
 ClientSampleId :
 29BR-20201118

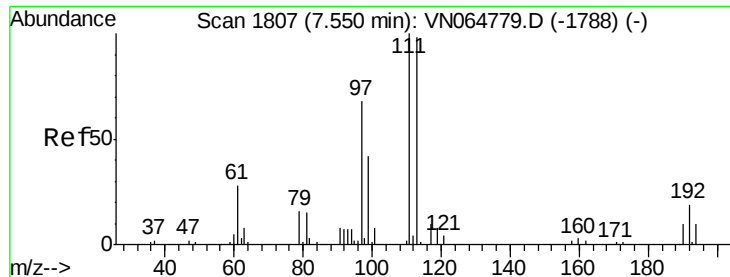
Tot Ion: 65 Resp: 98988
 Ion Ratio Lower Upper
 65 100
 67 55.0 0.0 108.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064832.D
 Acq: 25 Nov 2020 00:42

Tgt Ion: 114 Resp: 286697
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 38.6
 88 15.7 0.0 32.6

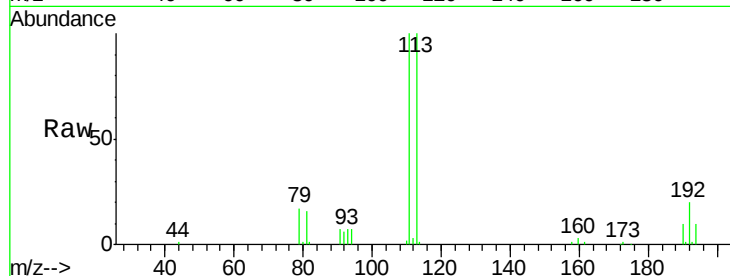




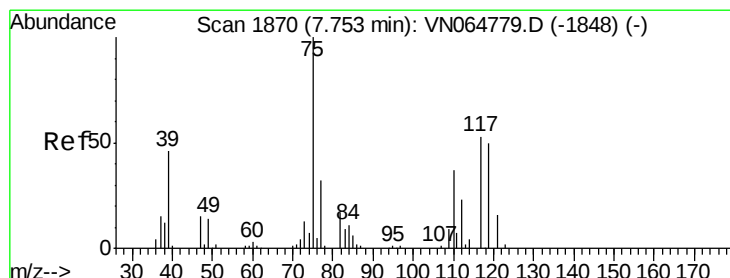
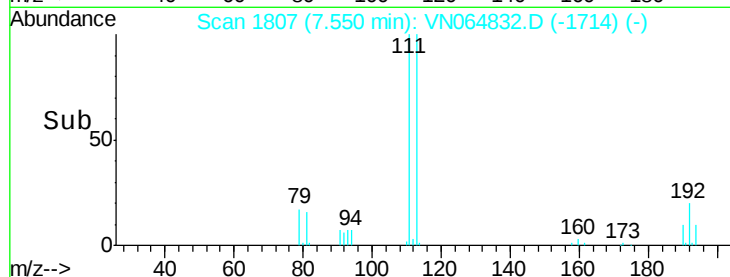
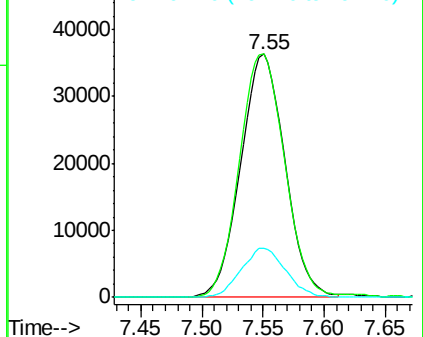
#35
 Dibromofluoromethane
 Concen: 53.131 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064832.D
 Acq: 25 Nov 2020 00:42

Instrument :
 MSVOA_N
 ClientSampleId :
 29BR-20201118

Tot Ion:113 Resp: 91147
 Ion Ratio Lower Upper
 113 100
 111 102.4 81.6 122.4
 192 20.3 16.2 24.2

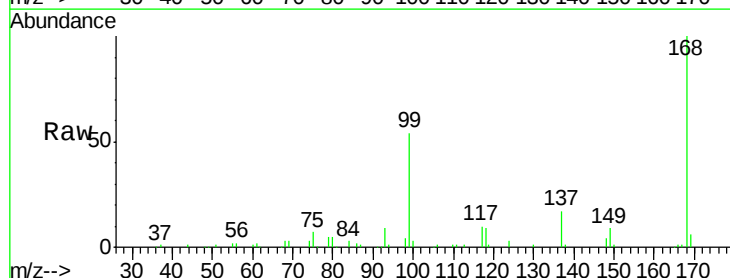


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

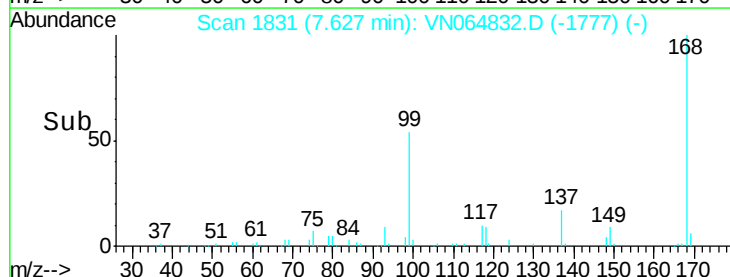
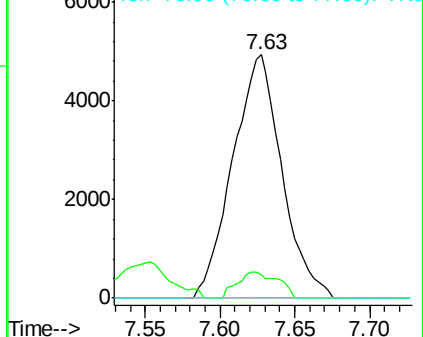


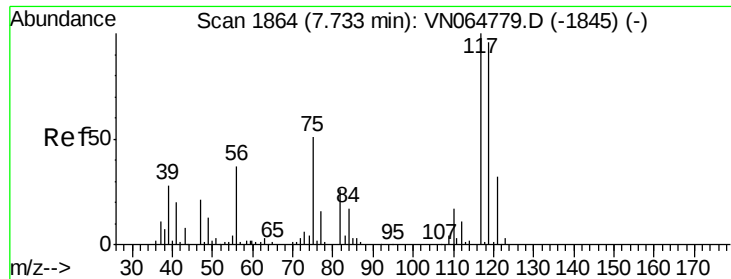
#36
 1,1-Dichloropropene
 Concen: 4.241 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064832.D
 Acq: 25 Nov 2020 00:42

Tgt Ion: 75 Resp: 11270
 Ion Ratio Lower Upper
 75 100
 110 8.8 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: 5.604 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN064832.D

Acq: 25 Nov 2020 00:42

Instrument :

MSVOA_N

ClientSampleId :

29BR-20201118

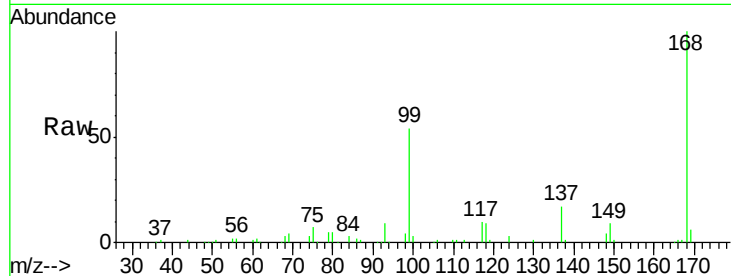
Tot Ion:117 Resp: 15494

Ion Ratio Lower Upper

117 100

119 6.3 76.7 115.1#

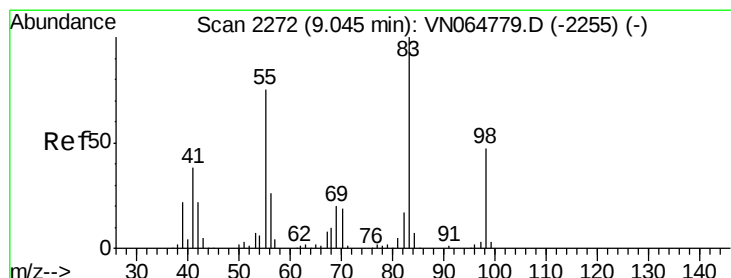
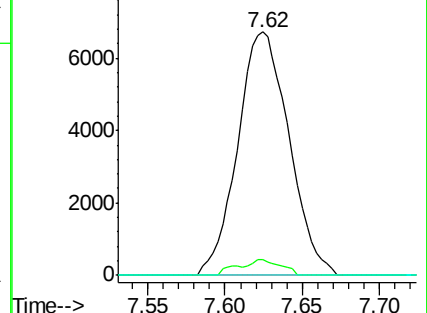
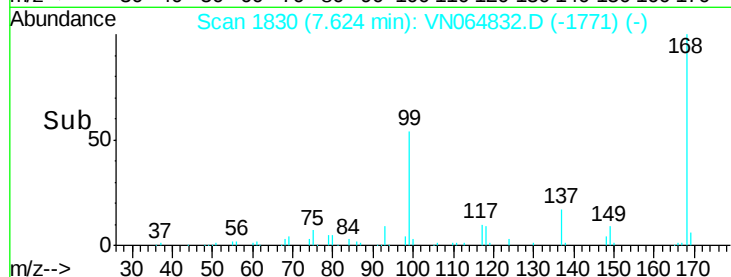
121 0.0 25.4 38.2#



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: 1.280 ug/l

RT: 8.80 min Scan# 2196

Delta R.T. -0.24 min

Lab File: VN064832.D

Acq: 25 Nov 2020 00:42

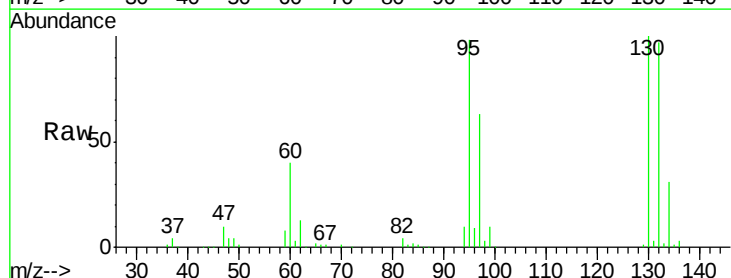
Tgt Ion: 83 Resp: 3662

Ion Ratio Lower Upper

83 100

55 0.0 60.2 90.2#

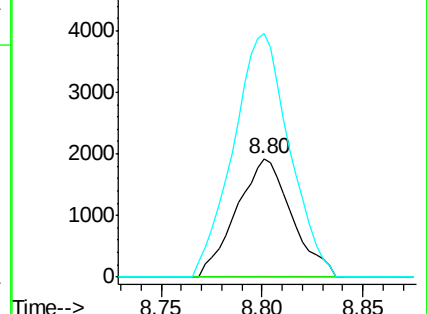
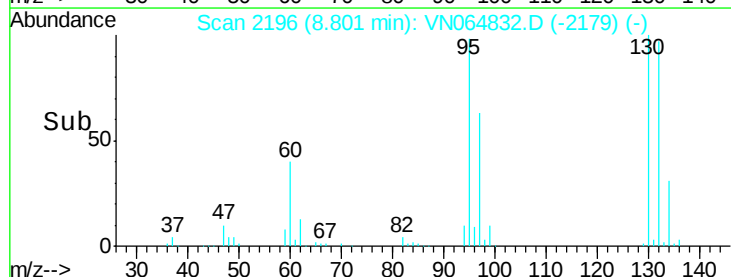
98 206.0 37.4 56.2#

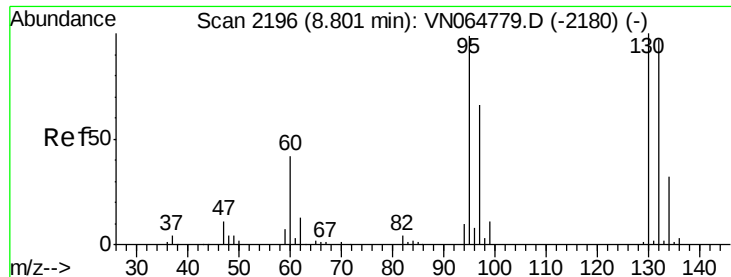


Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 98.00 (97.70 to 98.70): VN0

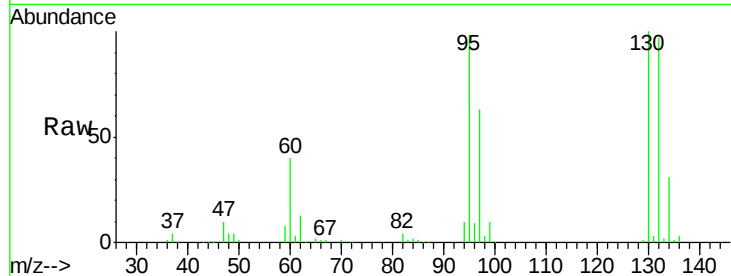




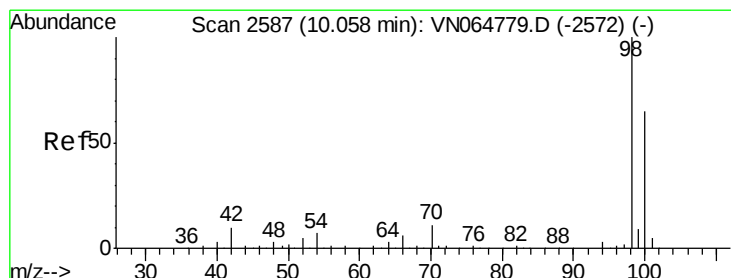
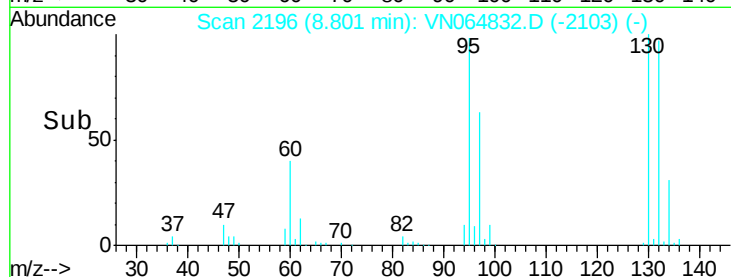
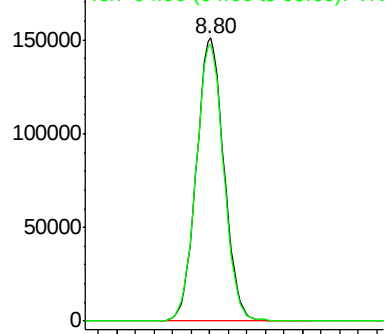
#44
 Trichloroethene
 Concen: 129.475 ug/l
 RT: 8.80 min Scan# 2196
 Delta R.T. 0.00 min
 Lab File: VN064832.D
 Acq: 25 Nov 2020 00:42

Instrument :
 MSVOA_N
 ClientSampleId :
 29BR-20201118

Tot Ion:130 Resp: 311085
 Ion Ratio Lower Upper
 130 100
 95 97.9 0.0 197.8

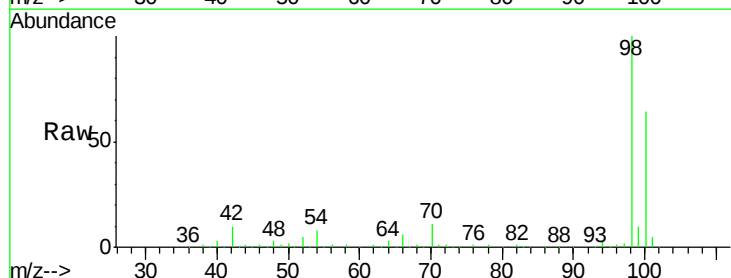


Abundance Ion 129.80 (129.50 to 130.50): V

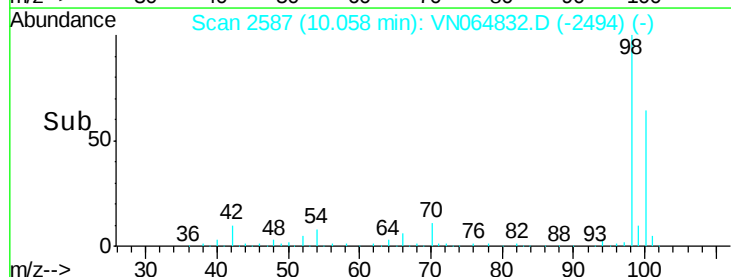
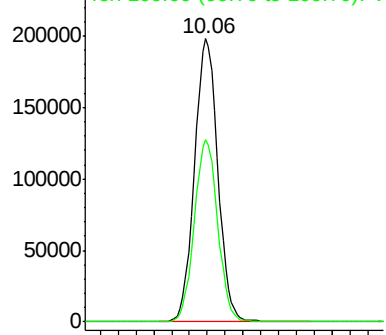


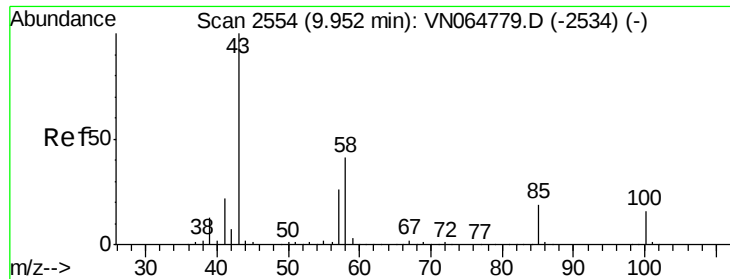
#50
 Toluene-d8
 Concen: 51.132 ug/l
 RT: 10.06 min Scan# 2587
 Delta R.T. 0.00 min
 Lab File: VN064832.D
 Acq: 25 Nov 2020 00:42

Tgt Ion: 98 Resp: 358404
 Ion Ratio Lower Upper
 98 100
 100 64.2 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN

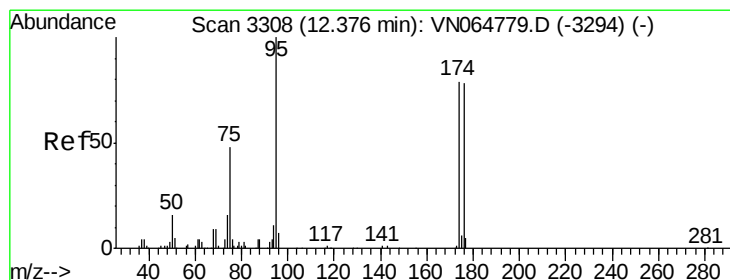
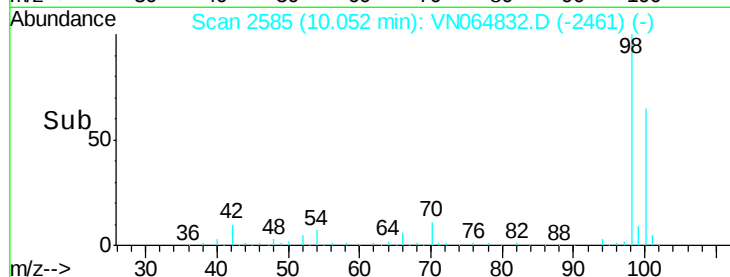
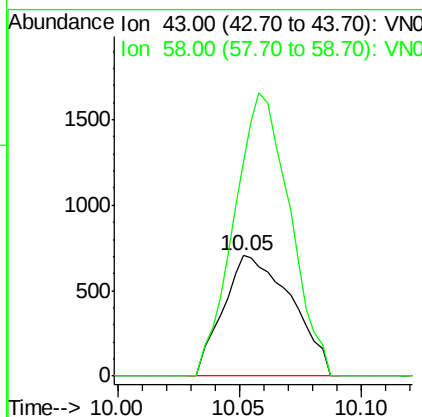
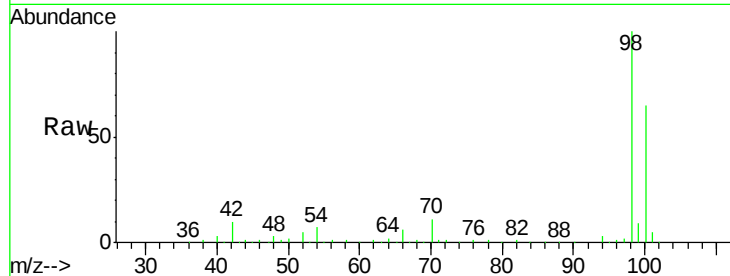




#51
 4-Methyl-2-Pentanone
 Concen: 0.553 ug/l
 RT: 10.05 min Scan# 2585
 Delta R.T. 0.10 min
 Lab File: VN064832.D
 Acq: 25 Nov 2020 00:42

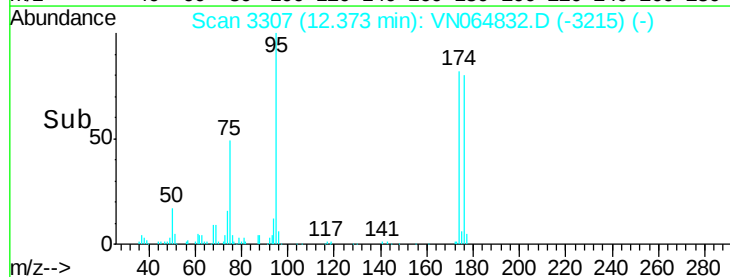
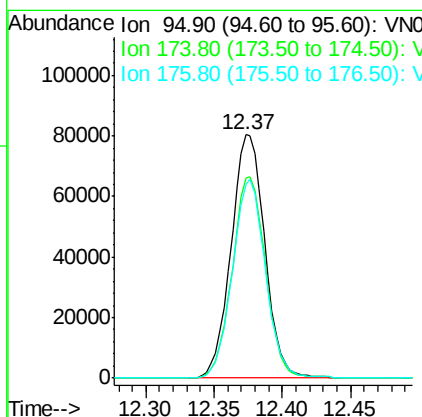
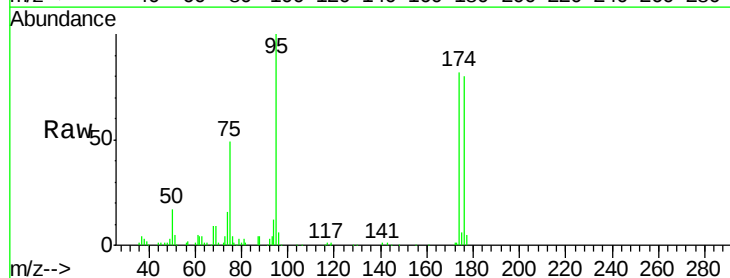
Instrument :
 MSVOA_N
 ClientSampleId :
 29BR-20201118

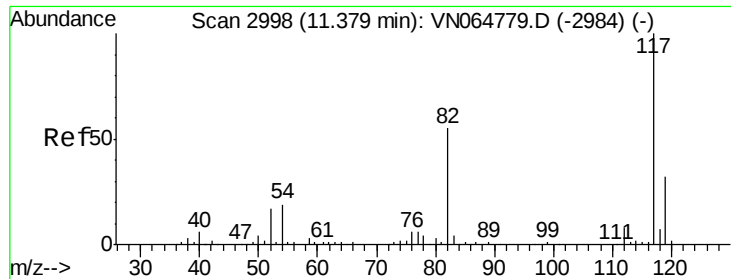
Tot Ion: 43 Resp: 1368
 Ion Ratio Lower Upper
 43 100
 58 192.5 32.4 48.6#



#62
 4-Bromofluorobenzene
 Concen: 54.974 ug/l
 RT: 12.37 min Scan# 3307
 Delta R.T. -0.00 min
 Lab File: VN064832.D
 Acq: 25 Nov 2020 00:42

Tgt Ion: 95 Resp: 137903
 Ion Ratio Lower Upper
 95 100
 174 82.0 0.0 160.4
 176 80.0 0.0 158.4

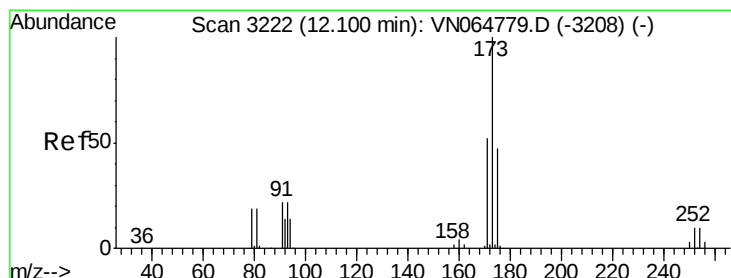
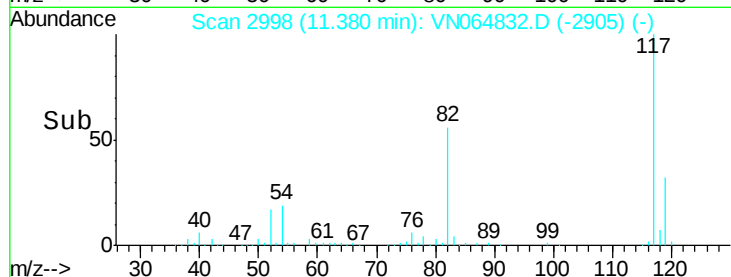
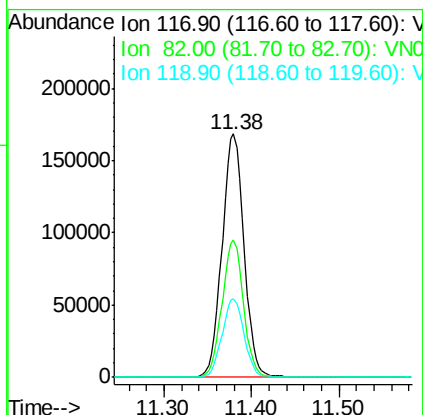
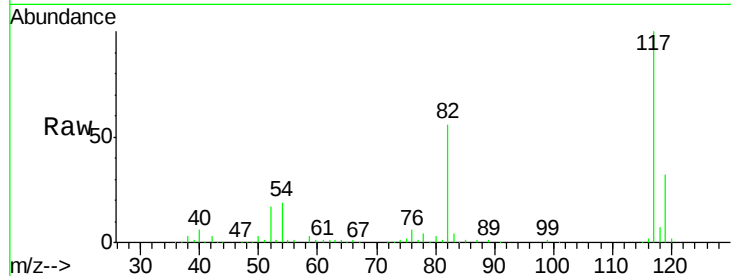




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064832.D
Acq: 25 Nov 2020 00:42

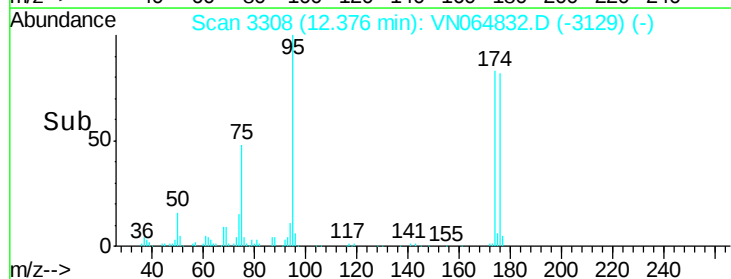
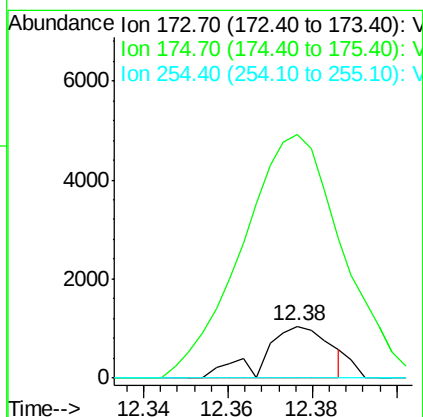
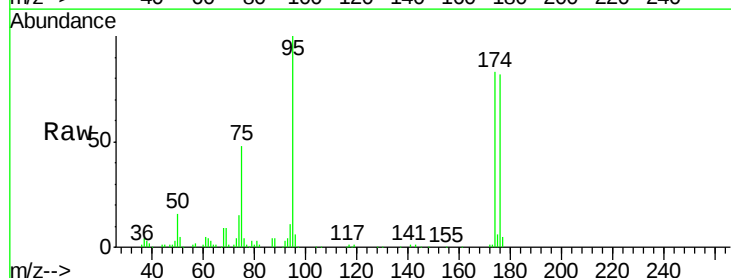
Instrument :
MSVOA_N
ClientSampled :
29BR-20201118

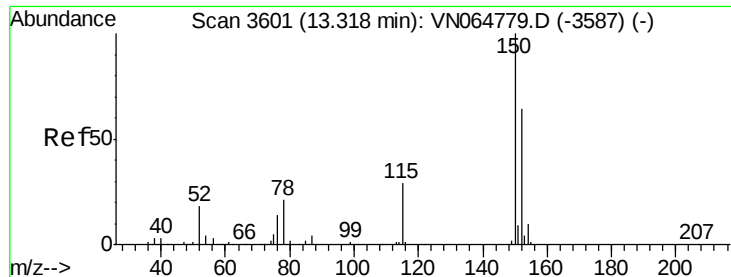
Tot Ion:117 Resp: 293860
Ion Ratio Lower Upper
117 100
82 56.4 44.2 66.2
119 32.3 25.8 38.6



#71
Bromoform
Concen: 0.613 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.28 min
Lab File: VN064832.D
Acq: 25 Nov 2020 00:42

Tgt Ion:173 Resp: 1136
Ion Ratio Lower Upper
173 100
175 621.0 24.3 72.8#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN064832.D

Acq: 25 Nov 2020 00:42

Instrument :

MSVOA_N

ClientSampleId :

29BR-20201118

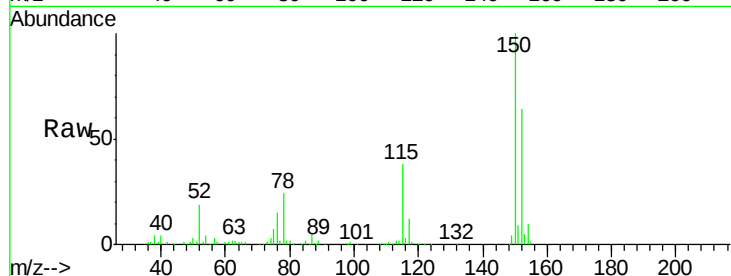
Tot Ion:152 Resp: 134195

Ion Ratio Lower Upper

152 100

115 59.1 29.7 89.1

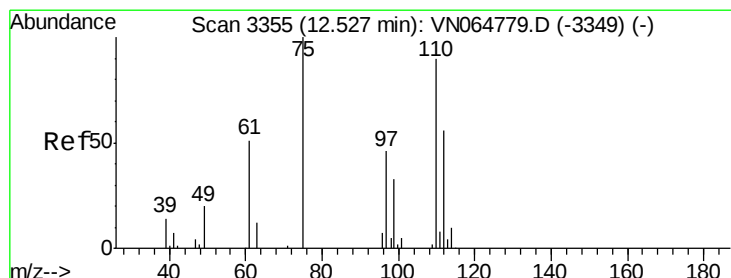
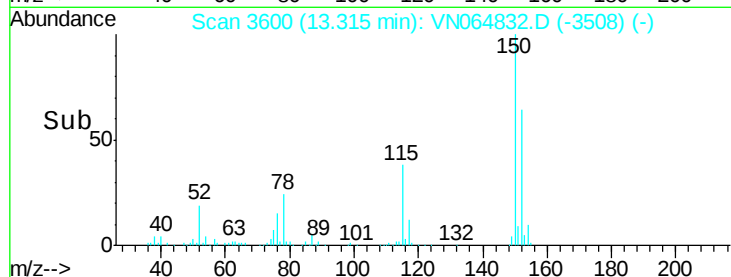
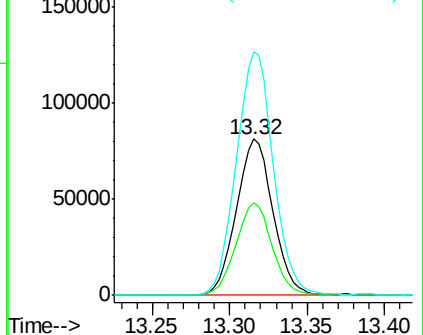
150 157.8 0.0 350.6



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: 22.712 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN064832.D

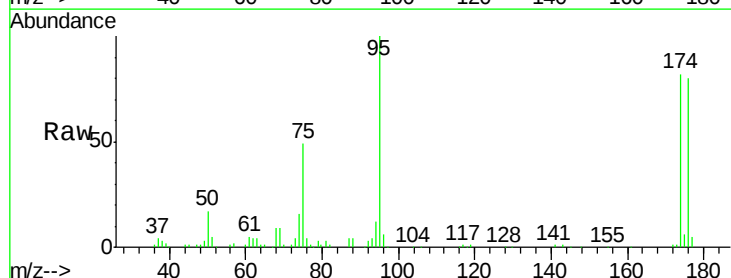
Acq: 25 Nov 2020 00:42

Tgt Ion: 75 Resp: 65638

Ion Ratio Lower Upper

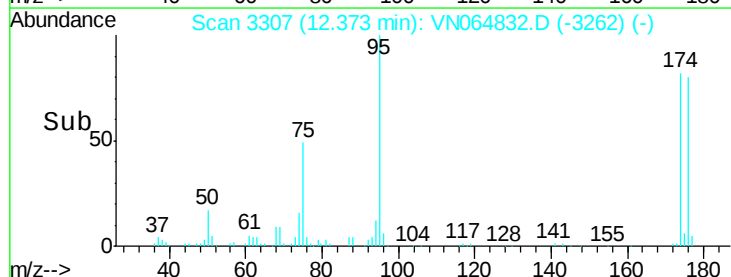
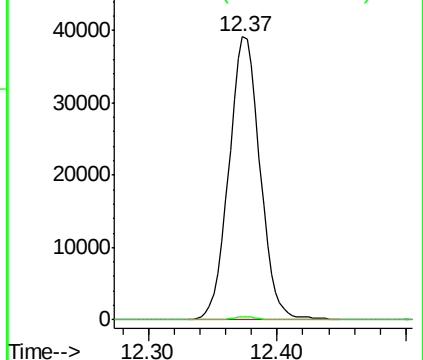
75 100

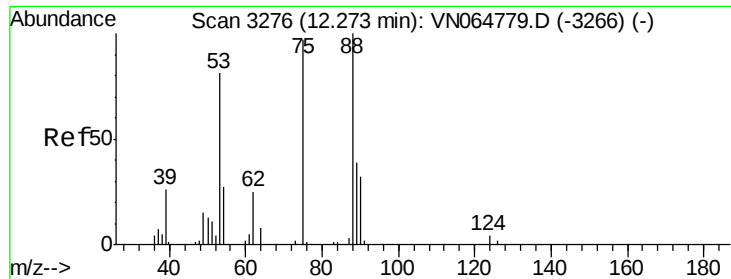
77 0.9 0.0 0.0#



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: 62.248 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN064832.D

Acq: 25 Nov 2020 00:42

Instrument :

MSVOA_N

ClientSampleId :

29BR-20201118

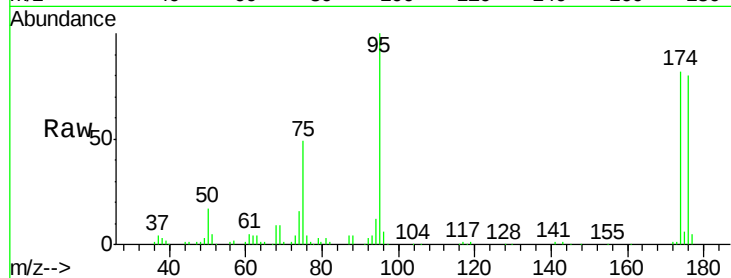
Tot Ion: 75 Resp: 65638

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): VN064832.D (-3183) (-)

Ion 53.00 (52.70 to 53.70): VN064832.D (-3183) (-)

Ion 88.90 (88.60 to 89.60): VN064832.D (-3183) (-)

