

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062920\
 Data File : VN062221.D
 Acq On : 30 Jun 2020 5:48
 Operator : JC/MD
 Sample : L2806-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 AU-06-062620

Quant Time: Jun 30 06:38:54 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N062420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 24 15:33:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	207213	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	412061	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	411967	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	144405	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	160041	55.04	ug/l	0.00
Spiked Amount			Recovery	=	110.08%	
35) Dibromofluoromethane	7.55	113	131732	49.83	ug/l	0.00
Spiked Amount			Recovery	=	99.66%	
50) Toluene-d8	10.06	98	543309	51.41	ug/l	0.00
Spiked Amount			Recovery	=	102.82%	
62) 4-Bromofluorobenzene	12.38	95	170614	47.79	ug/l	0.00
Spiked Amount			Recovery	=	95.58%	

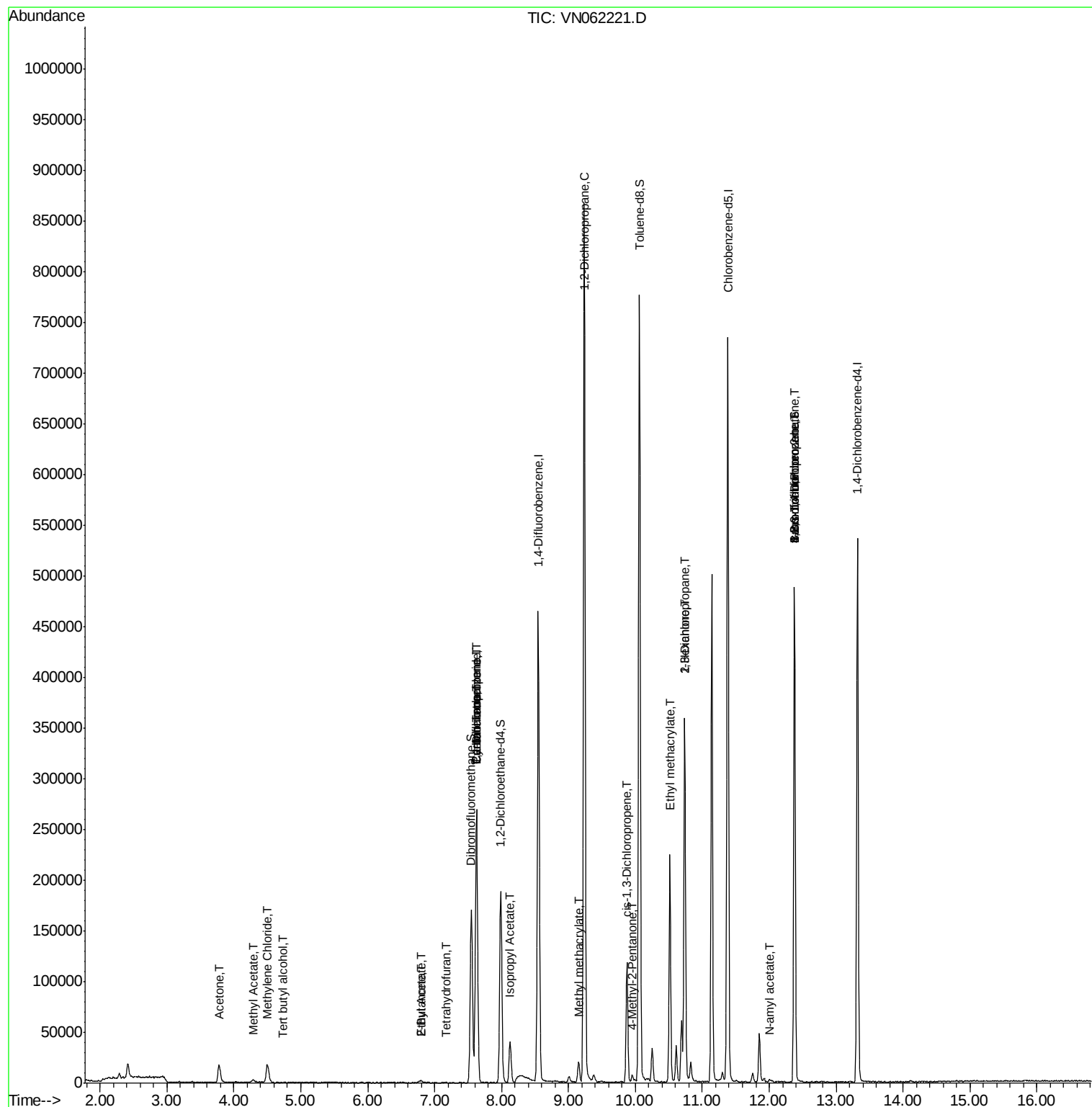
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	260	Below Cal	#	41
11) Tert butyl alcohol	4.72	59	164	0.393	ug/l #	72
16) Acetone	3.78	43	30060	29.358	ug/l	96
18) Methyl Acetate	4.29	43	4169	1.804	ug/l #	87
20) Methylene Chloride	4.50	84	14242	5.141	ug/l	99
25) 2-Butanone	6.79	43	1589	1.118	ug/l #	84
29) Tetrahydrofuran	7.17	42	439	0.472	ug/l #	28
31) Cyclohexane	7.63	56	4576	1.139	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	17661	4.264	ug/l #	48
37) Ethyl Acetate	6.79	43	1589	0.463	ug/l #	66
38) Carbon Tetrachloride	7.63	117	21754	5.571	ug/l #	16
43) Isopropyl Acetate	8.13	43	45326	8.107	ug/l	99
45) 1,2-Dichloropropane	9.24	63	1088	0.349	ug/l #	43
48) Methyl methacrylate	9.15	41	2493	0.994	ug/l #	6
51) 4-Methyl-2-Pentanone	9.95	43	4781	1.464	ug/l	96
54) cis-1,3-Dichloropropene	9.87	75	22072	4.420	ug/l #	67
56) Ethyl methacrylate	10.52	69	1222	0.302	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	3937	0.755	ug/l #	42
59) 2-Hexanone	10.74	43	47964	20.334	ug/l #	54
71) Bromoform	12.37	173	864	0.388	ug/l #	1
74) N-amyl acetate	12.00	43	1644	3.716	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	89080	26.205	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	89080	76.527	ug/l #	13

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

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Quant Title : SW846 8260
QLast Update : Wed Jun 24 15:33:00 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062221.D

Acq: 30 Jun 2020 5:48

Instrument :

MSVOA_N

ClientSampleId :

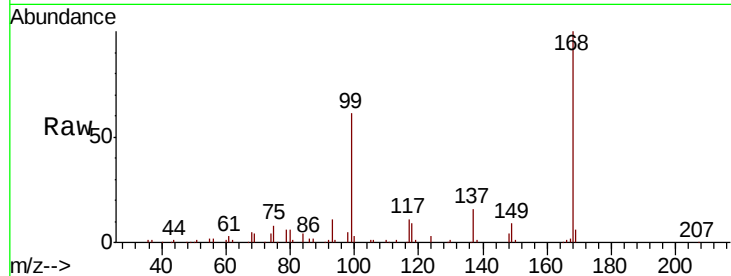
AU-06-062620

Tot Ion:168 Resp: 207213

Ion Ratio Lower Upper

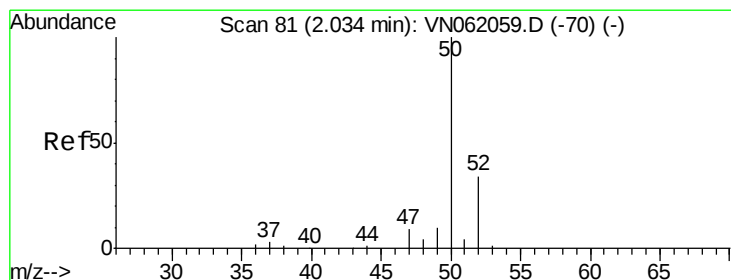
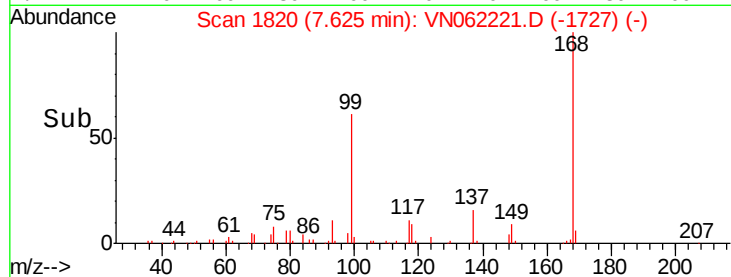
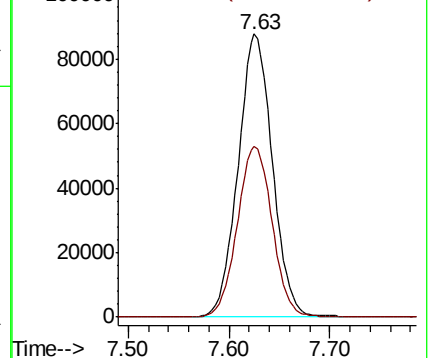
168 100

99 60.5 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 80

Delta R.T. -0.00 min

Lab File: VN062221.D

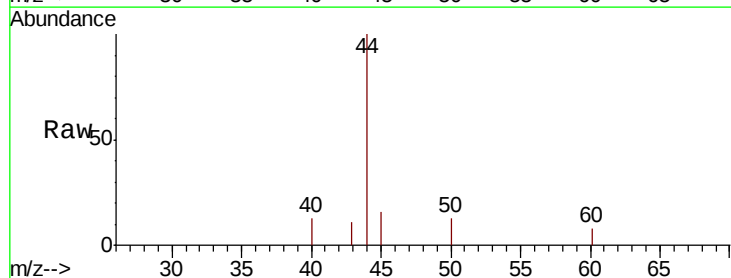
Acq: 30 Jun 2020 5:48

Tgt Ion: 50 Resp: 260

Ion Ratio Lower Upper

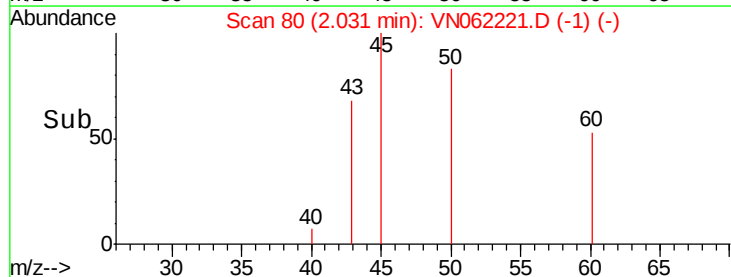
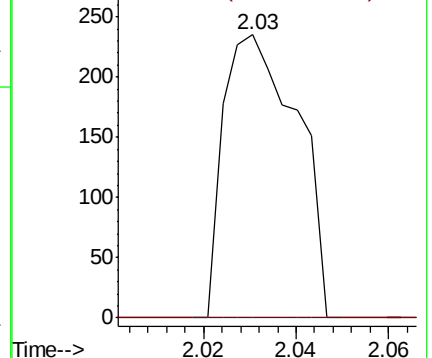
50 100

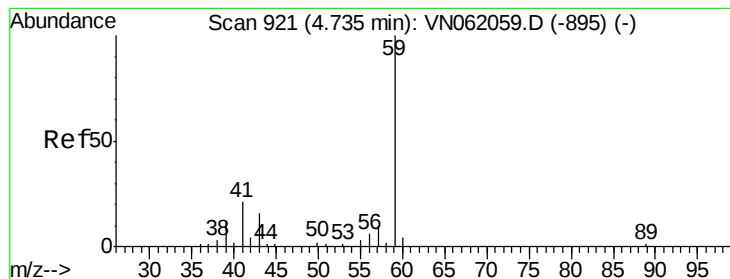
52 0.0 27.0 40.6#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN



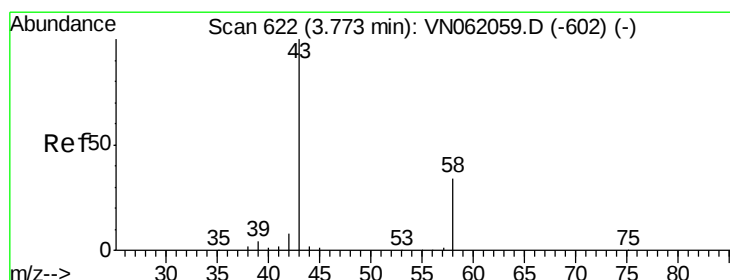
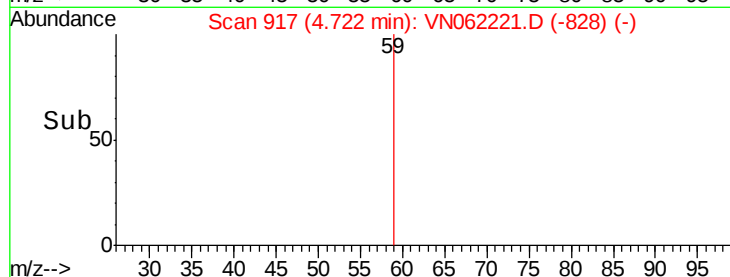
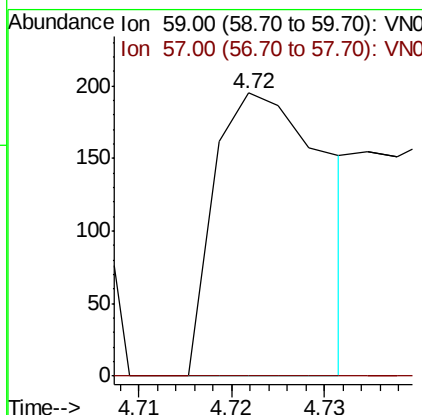
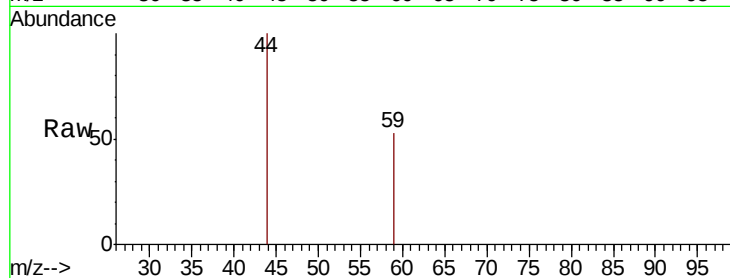


#11

Tert butyl alcohol
 Concen: 0.393 ug/l
 RT: 4.72 min Scan# 917
 Delta R.T. -0.01 min
 Lab File: VN062221.D
 Acq: 30 Jun 2020 5:48

Instrument :
 MSVOA_N
 ClientSampleId :
 AU-06-062620

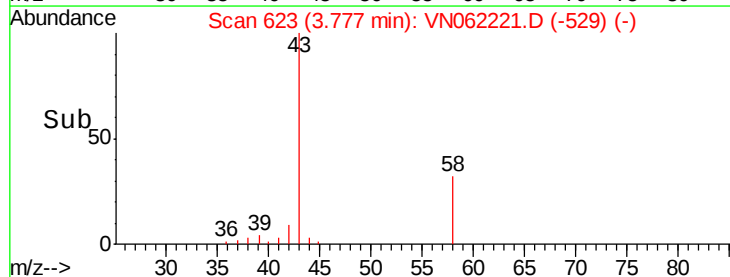
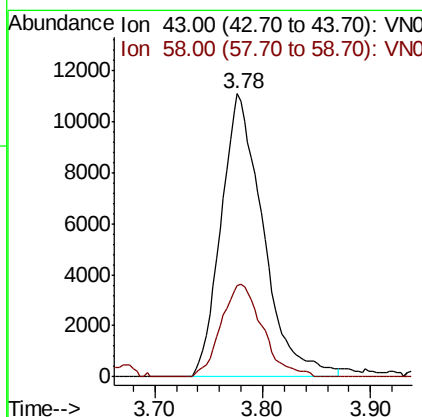
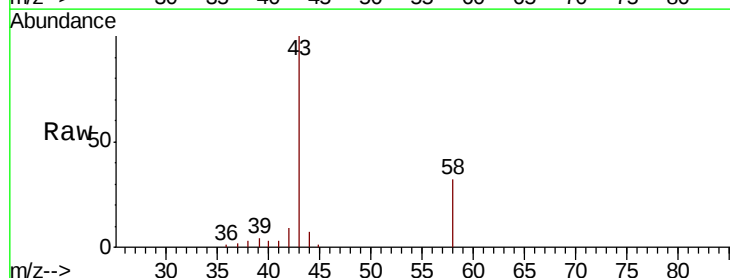
Tot Ion: 59 Resp: 164
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

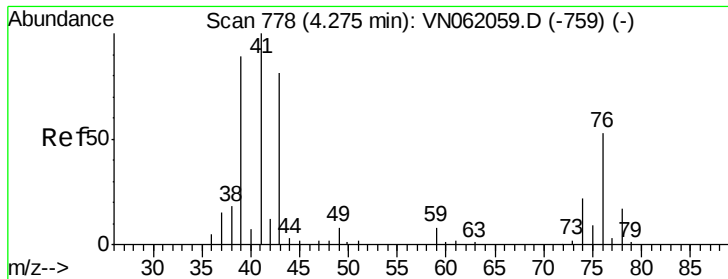


#16

Acetone
 Concen: 29.358 ug/l
 RT: 3.78 min Scan# 623
 Delta R.T. 0.00 min
 Lab File: VN062221.D
 Acq: 30 Jun 2020 5:48

Tgt Ion: 43 Resp: 30060
 Ion Ratio Lower Upper
 43 100
 58 32.1 27.5 41.3

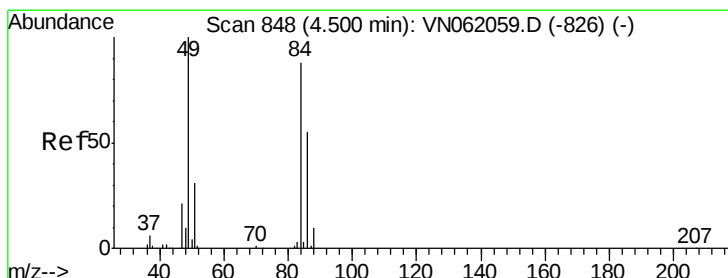
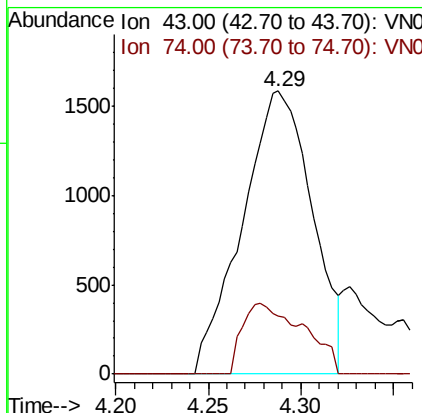
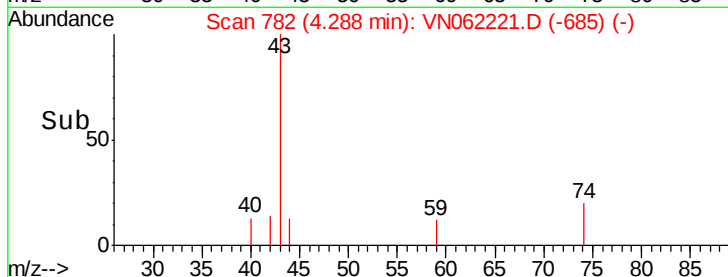
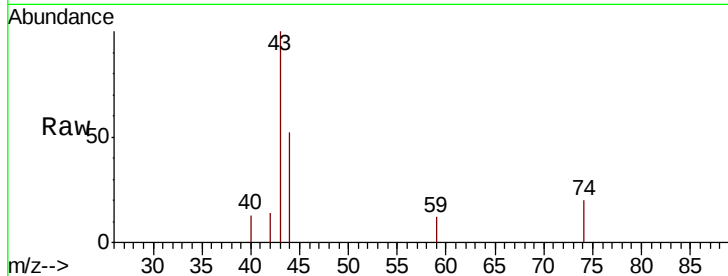




#18
Methyl Acetate
Concen: 1.804 ug/l
RT: 4.29 min Scan# 782
Delta R.T. 0.01 min
Lab File: VN062221.D
Acq: 30 Jun 2020 5:48

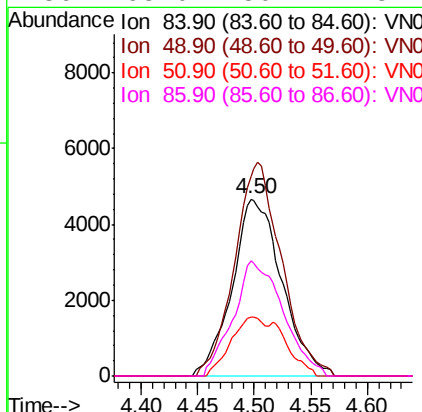
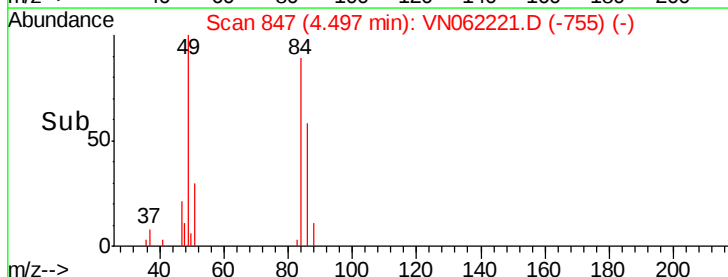
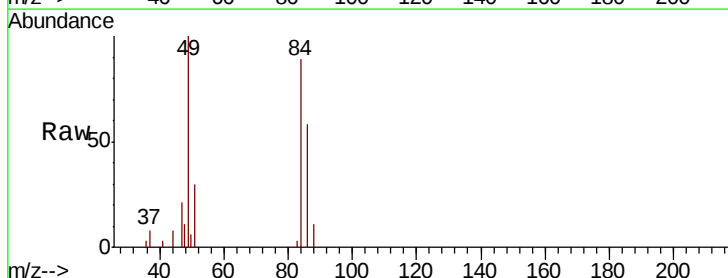
Instrument :
MSVOA_N
ClientSampled :
AU-06-062620

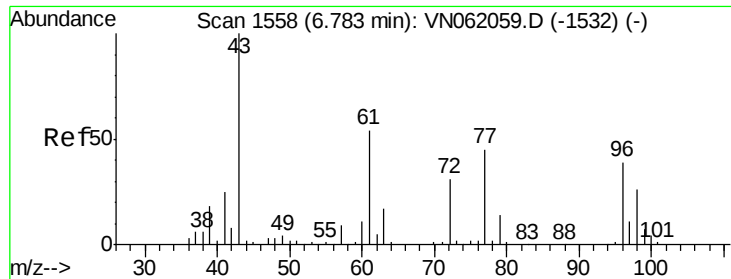
Tot Ion: 43 Resp: 4169
Ion Ratio Lower Upper
43 100
74 21.9 22.9 34.3#



#20
Methylene Chloride
Concen: 5.141 ug/l
RT: 4.50 min Scan# 847
Delta R.T. -0.00 min
Lab File: VN062221.D
Acq: 30 Jun 2020 5:48

Tgt Ion: 84 Resp: 14242
Ion Ratio Lower Upper
84 100
49 112.8 90.6 136.0
51 33.7 27.8 41.8
86 65.0 50.1 75.1

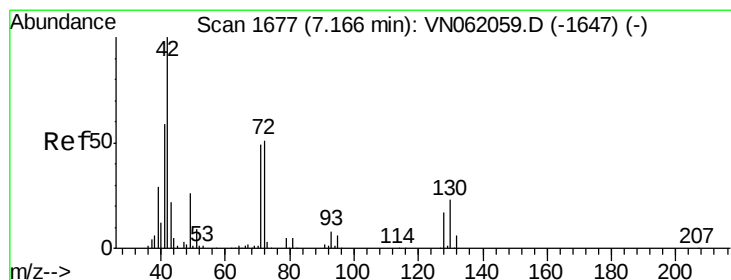
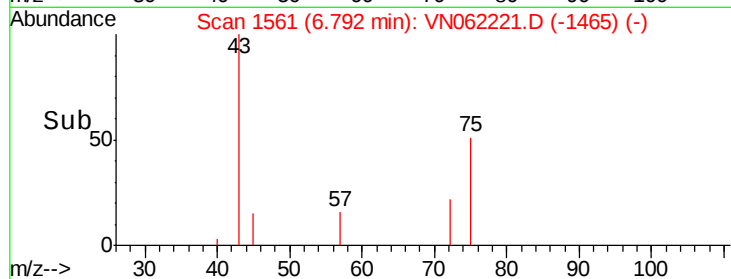
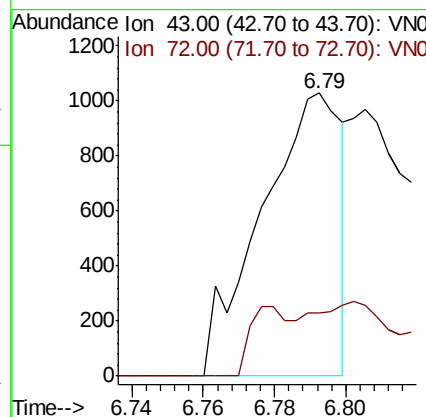
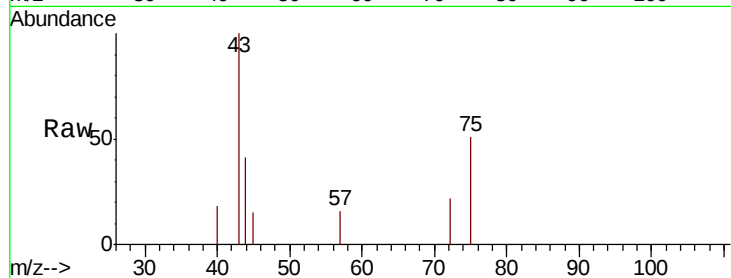




#25
2-Butanone
Concen: 1.118 ug/l
RT: 6.79 min Scan# 1561
Delta R.T. 0.01 min
Lab File: VN062221.D
Acq: 30 Jun 2020 5:48

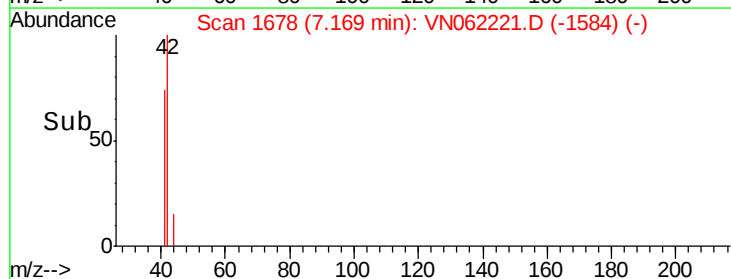
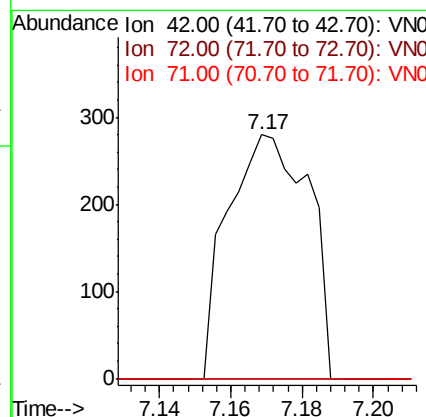
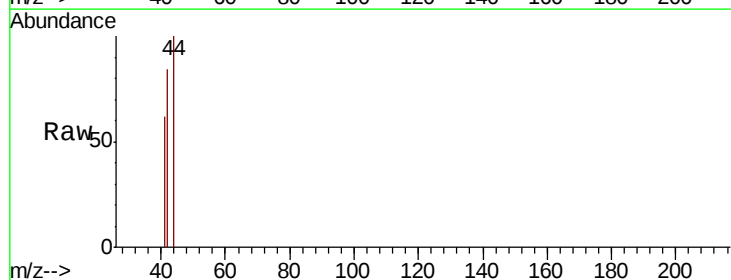
Instrument :
MSVOA_N
ClientSampled :
AU-06-062620

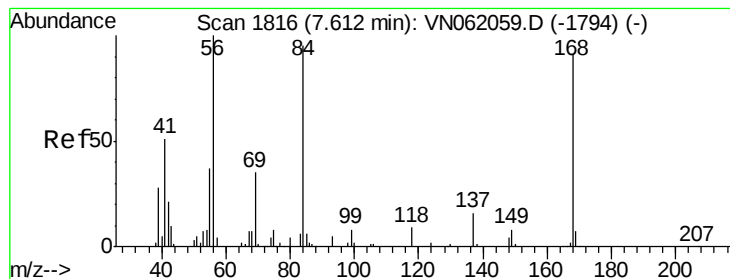
Tot Ion: 43 Resp: 1589
Ion Ratio Lower Upper
43 100
72 22.2 24.8 37.2#



#29
Tetrahydrofuran
Concen: 0.472 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. 0.00 min
Lab File: VN062221.D
Acq: 30 Jun 2020 5:48

Tgt Ion: 42 Resp: 439
Ion Ratio Lower Upper
42 100
72 0.0 41.1 61.7#
71 0.0 38.2 57.4#





#31

Cvclohexane

Concen: 1.139 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN062221.D

Acq: 30 Jun 2020 5:48

Instrument :

MSVOA_N

ClientSampleId :

AU-06-062620

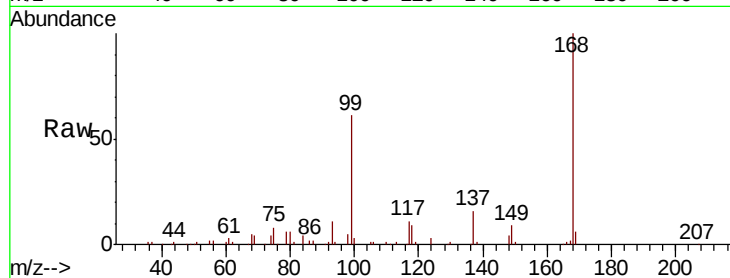
Tot Ion: 56 Resp: 4576

Ion Ratio Lower Upper

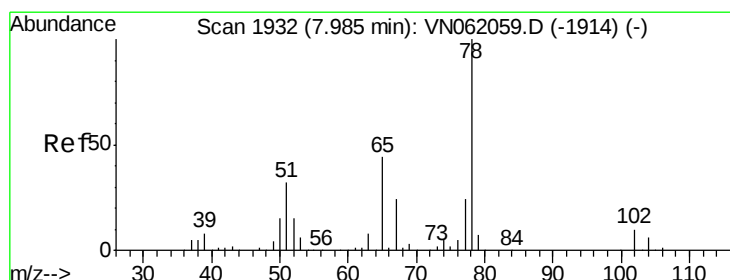
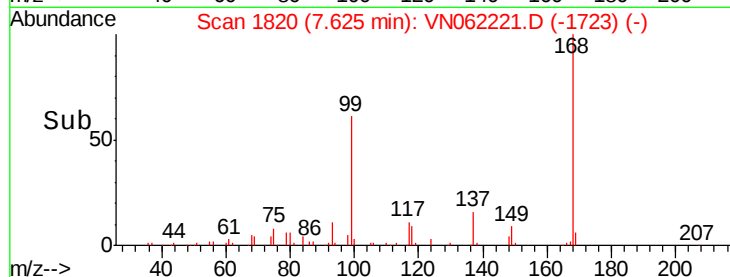
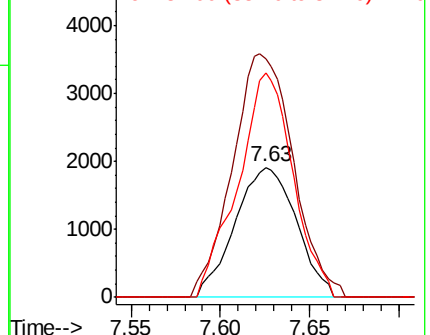
56 100

69 183.8 28.0 42.0#

84 172.6 76.1 114.1#



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: 55.037 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN062221.D

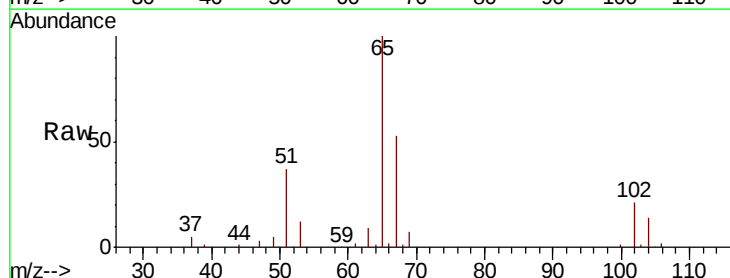
Acq: 30 Jun 2020 5:48

Tgt Ion: 65 Resp: 160041

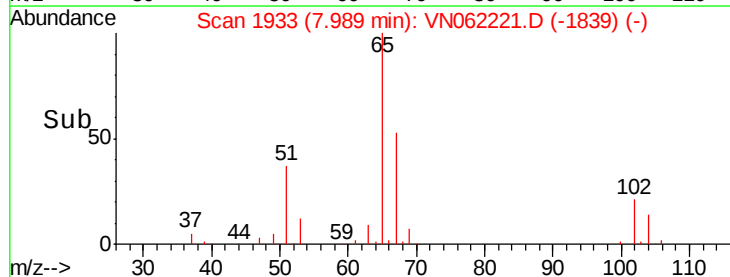
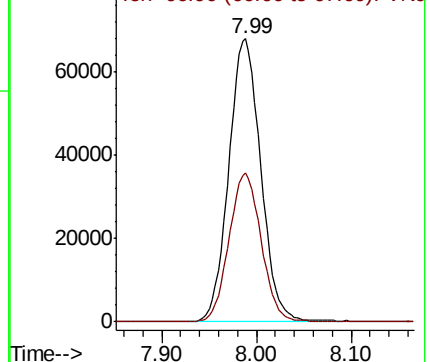
Ion Ratio Lower Upper

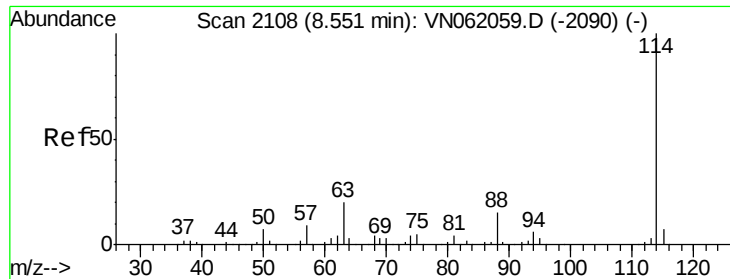
65 100

67 52.8 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

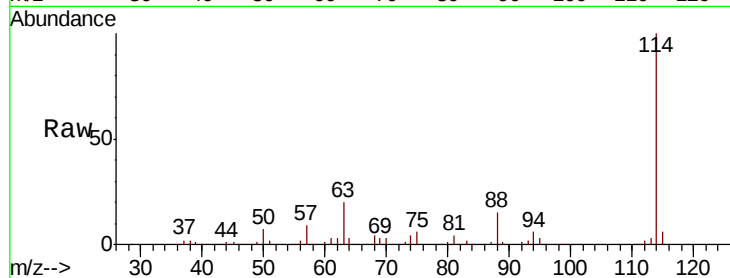




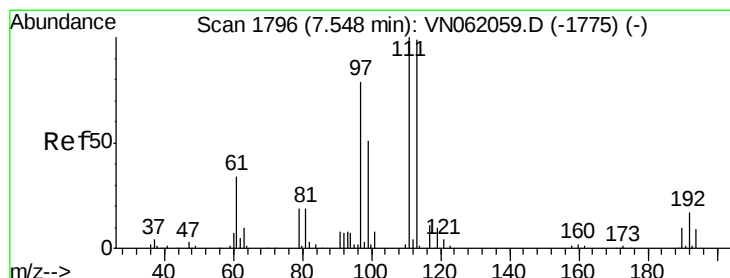
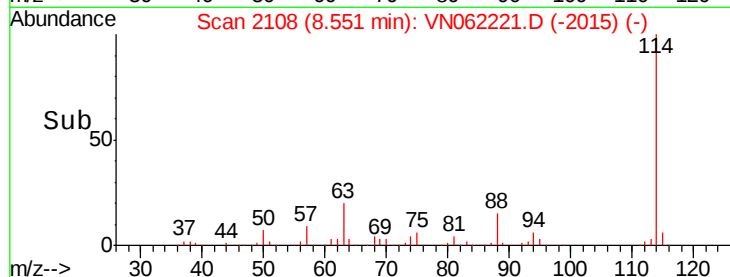
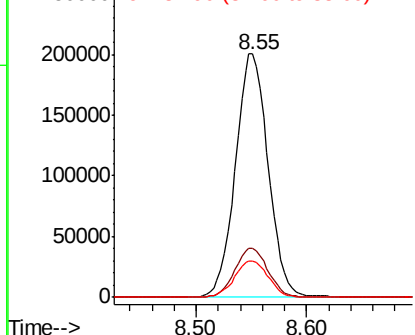
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2108
Delta R.T. -0.00 min
Lab File: VN062221.D
Acq: 30 Jun 2020 5:48

Instrument :
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ClientSampleId :
AU-06-062620

Tot Ion:114 Resp: 412061
Ion Ratio Lower Upper
114 100
63 20.1 0.0 39.2
88 14.8 0.0 30.8

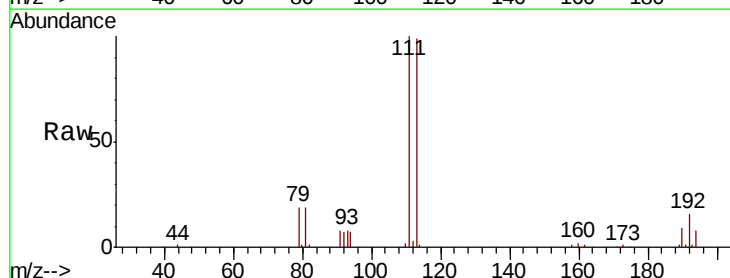


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

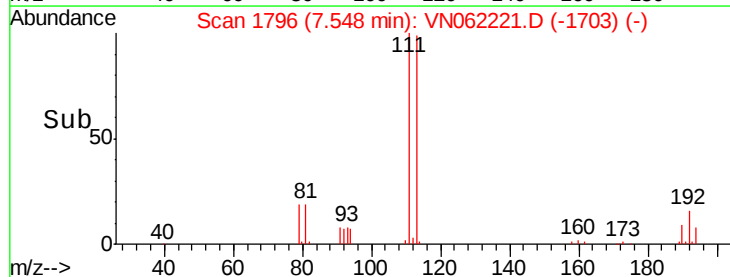
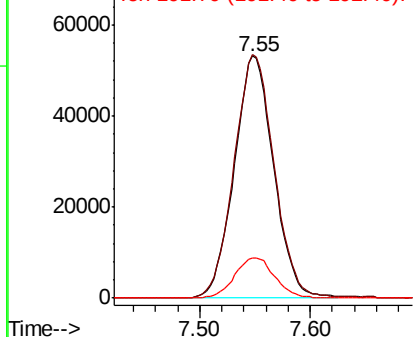


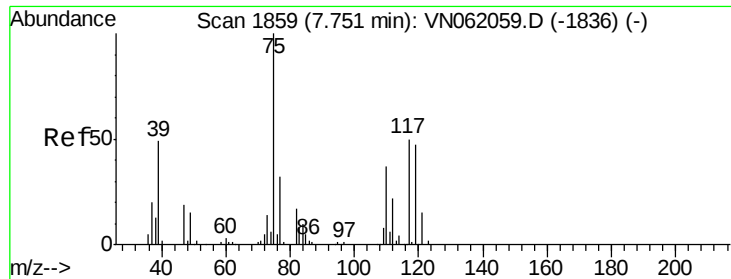
#35
Dibromofluoromethane
Concen: 49.831 ug/l
RT: 7.55 min Scan# 1796
Delta R.T. -0.00 min
Lab File: VN062221.D
Acq: 30 Jun 2020 5:48

Tgt Ion:113 Resp: 131732
Ion Ratio Lower Upper
113 100
111 102.1 82.2 123.4
192 16.9 14.0 21.0



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: 4.264 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.13 min

Lab File: VN062221.D

Acq: 30 Jun 2020 5:48

Instrument :

MSVOA_N

ClientSampleId :

AU-06-062620

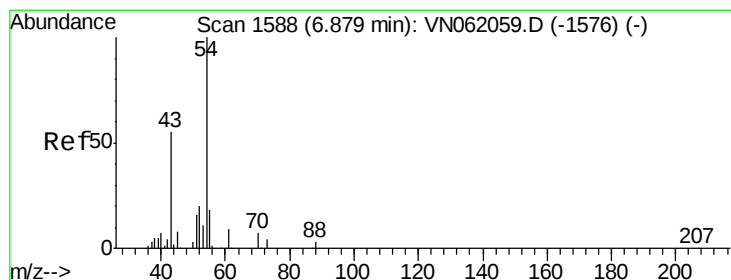
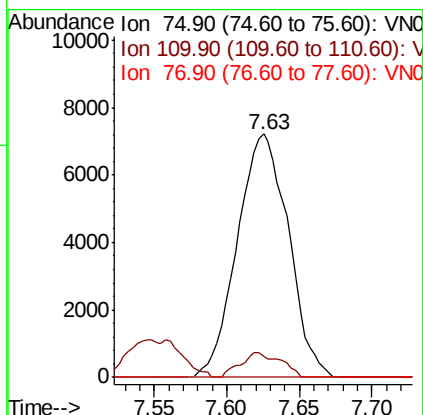
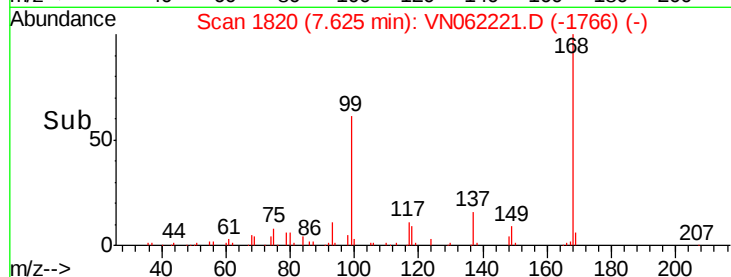
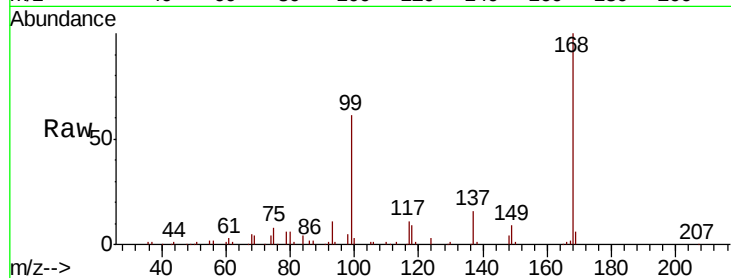
Tot Ion: 75 Resp: 17661

Ion Ratio Lower Upper

75 100

110 8.0 17.9 53.8#

77 0.0 24.9 37.3#



#37

Ethyl Acetate

Concen: 0.463 ug/l

RT: 6.79 min Scan# 1561

Delta R.T. -0.09 min

Lab File: VN062221.D

Acq: 30 Jun 2020 5:48

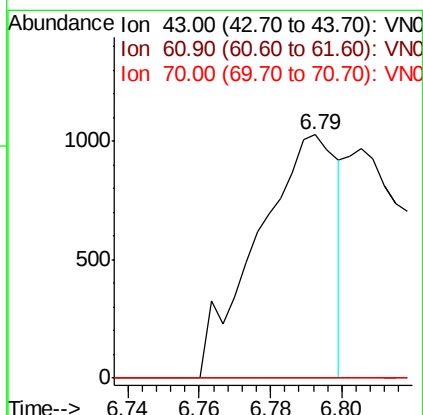
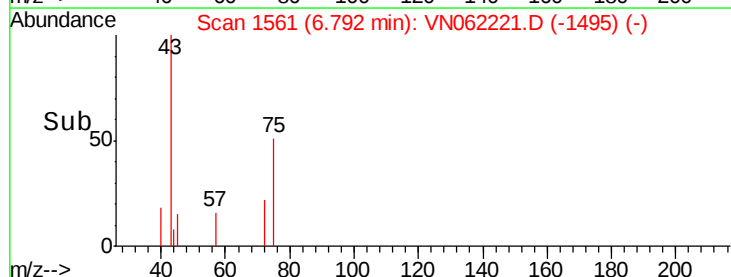
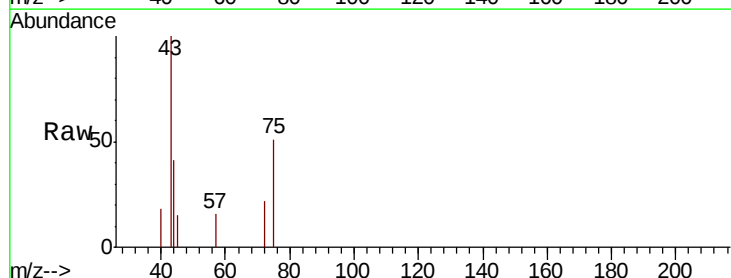
Tgt Ion: 43 Resp: 1589

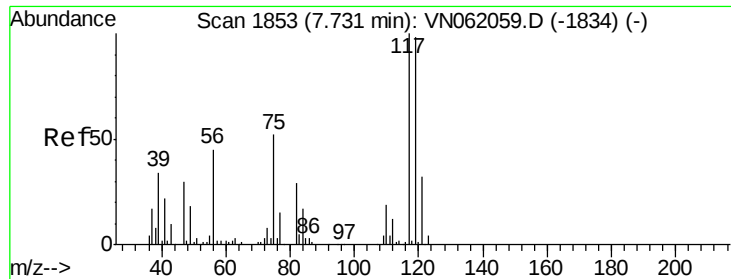
Ion Ratio Lower Upper

43 100

61 0.0 12.0 18.0#

70 0.0 9.6 14.4#





#38

Carbon Tetrachloride

Concen: 5.571 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062221.D

Acq: 30 Jun 2020 5:48

Instrument :

MSVOA_N

ClientSampleId :

AU-06-062620

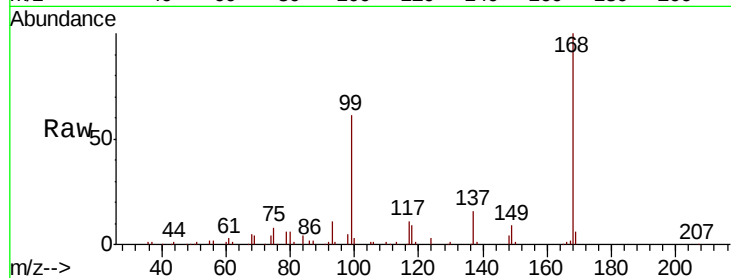
Tot Ion:117 Resp: 21754

Ion Ratio Lower Upper

117 100

119 6.1 78.2 117.2#

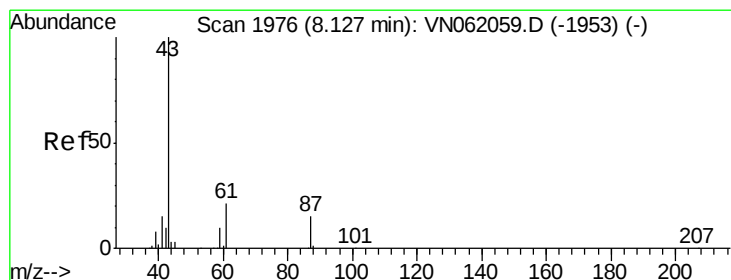
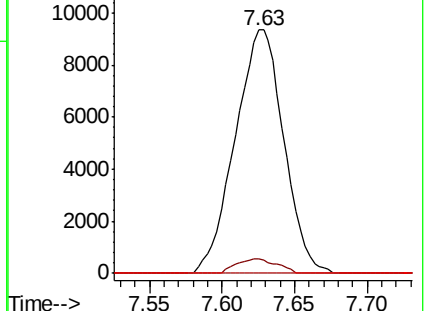
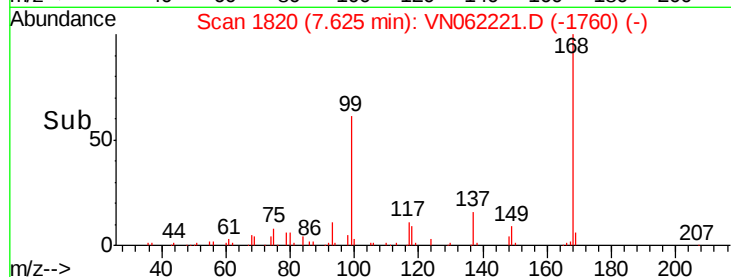
121 0.0 25.8 38.6#



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



#43

Isopropyl Acetate

Concen: 8.107 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062221.D

Acq: 30 Jun 2020 5:48

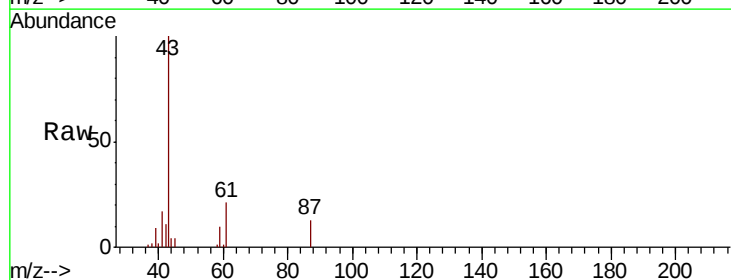
Tgt Ion: 43 Resp: 45326

Ion Ratio Lower Upper

43 100

61 21.5 17.2 25.8

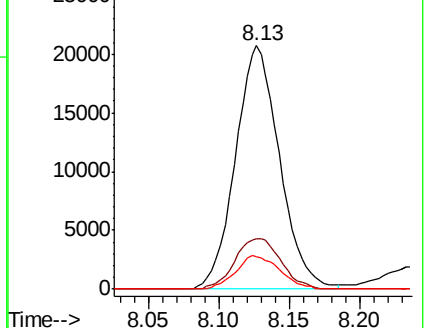
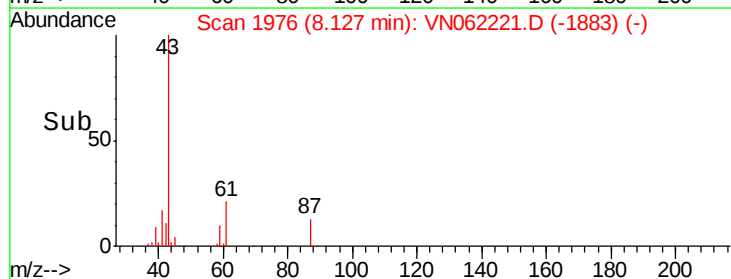
87 13.6 12.1 18.1

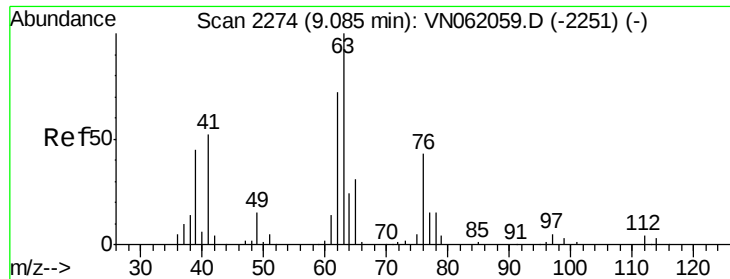


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

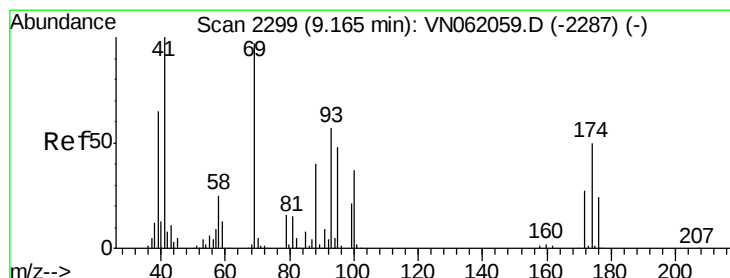
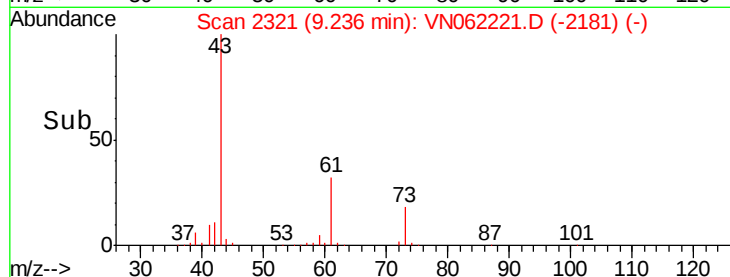
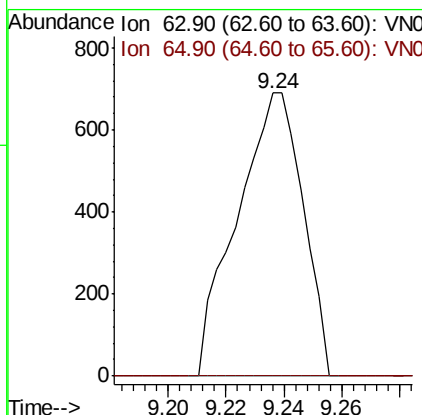
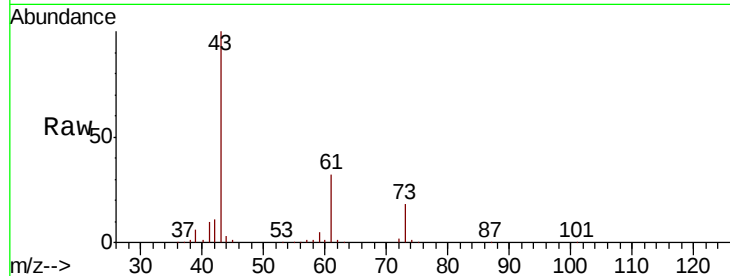




#45
 1,2-Dichloropropane
 Concen: 0.349 ug/l
 RT: 9.24 min Scan# 2321
 Delta R.T. 0.15 min
 Lab File: VN062221.D
 Acq: 30 Jun 2020 5:48

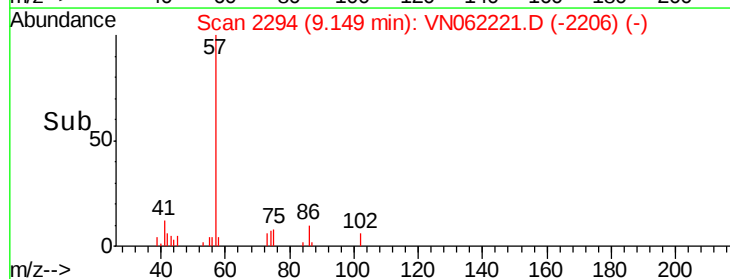
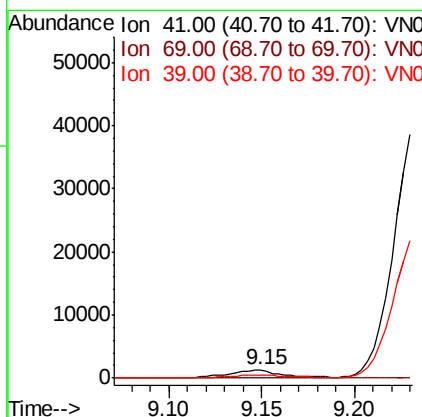
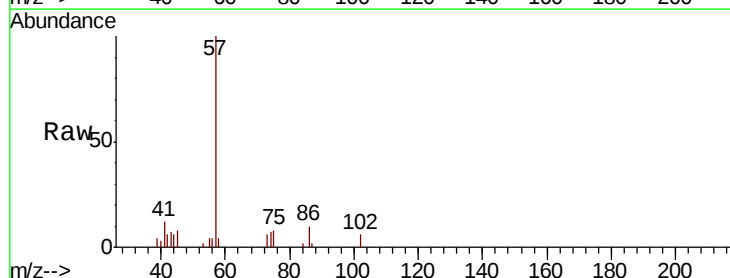
Instrument :
 MSVOA_N
 ClientSampleId :
 AU-06-062620

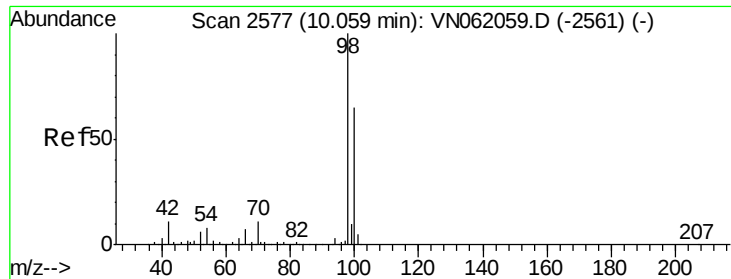
Tot Ion: 63 Resp: 1088
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 0.994 ug/l
 RT: 9.15 min Scan# 2294
 Delta R.T. -0.02 min
 Lab File: VN062221.D
 Acq: 30 Jun 2020 5:48

Tgt Ion: 41 Resp: 2493
 Ion Ratio Lower Upper
 41 100
 69 0.0 80.7 121.1#
 39 0.0 54.5 81.7#





#50

Toluene-d8

Concen: 51.415 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062221.D

Acq: 30 Jun 2020 5:48

Instrument :

MSVOA_N

ClientSampleId :

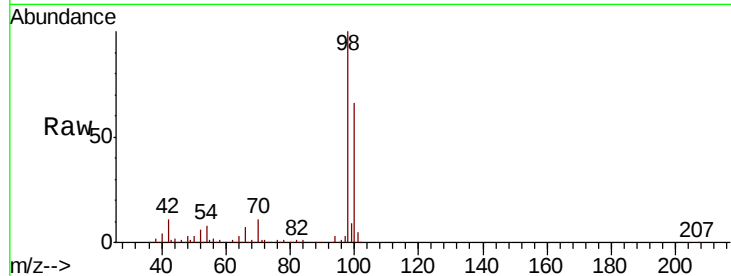
AU-06-062620

Tot Ion: 98 Resp: 543309

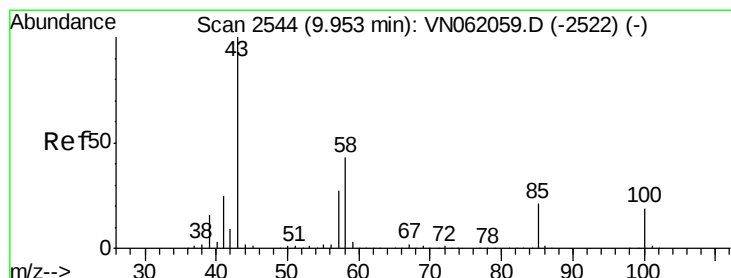
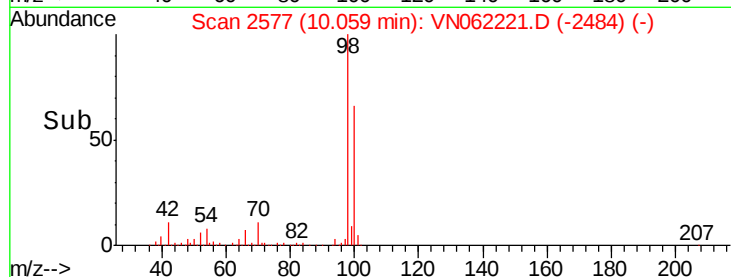
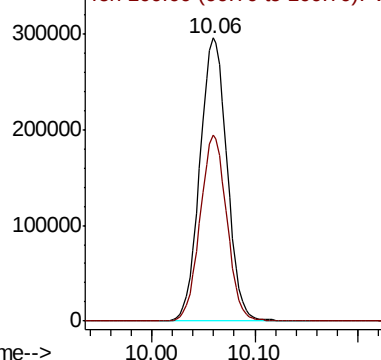
Ion Ratio Lower Upper

98 100

100 64.6 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN062059.D (-2561) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.464 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. -0.00 min

Lab File: VN062221.D

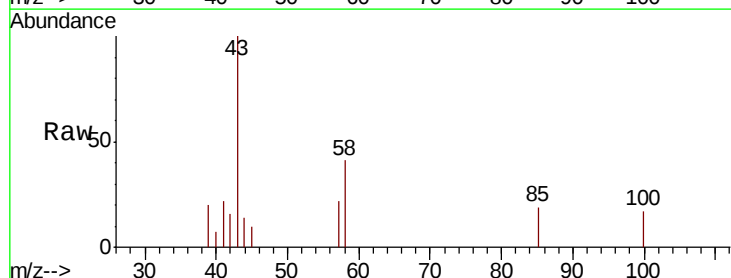
Acq: 30 Jun 2020 5:48

Tgt Ion: 43 Resp: 4781

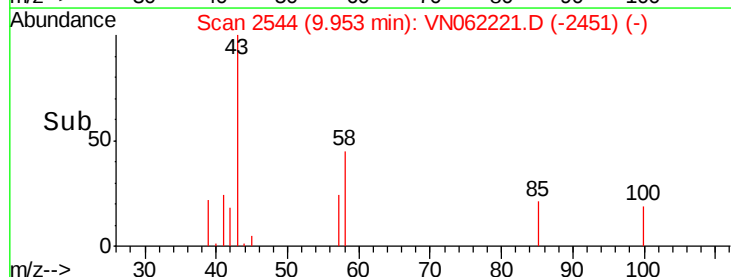
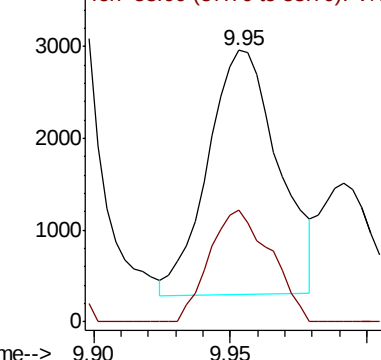
Ion Ratio Lower Upper

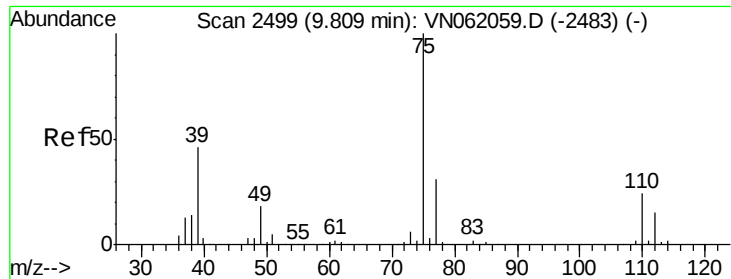
43 100

58 39.9 34.2 51.2



Abundance Ion 43.00 (42.70 to 43.70): VN062059.D (-2522) (-)

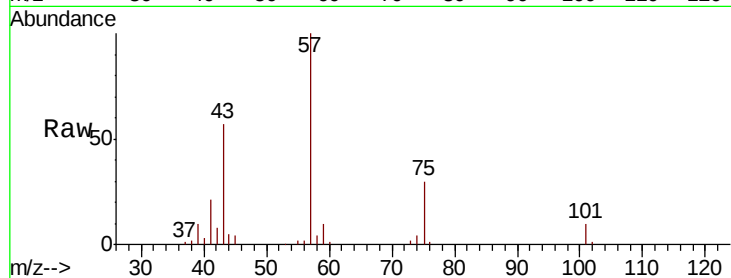




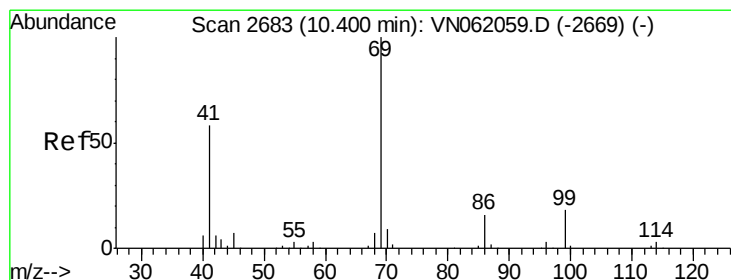
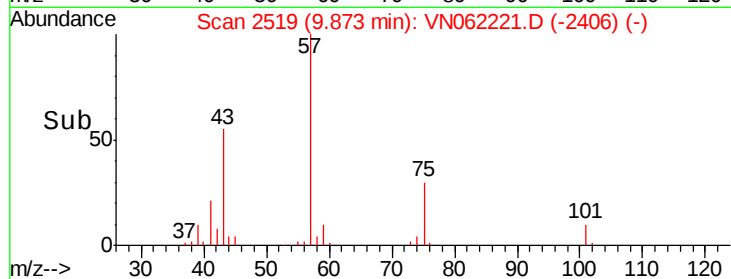
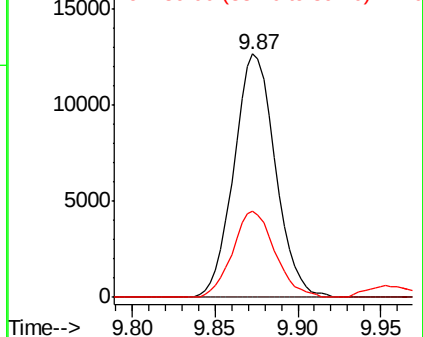
#54
 cis-1,3-Dichloropropene
 Concen: 4.420 ug/l
 RT: 9.87 min Scan# 2519
 Delta R.T. 0.06 min
 Lab File: VN062221.D
 Acq: 30 Jun 2020 5:48

Instrument :
 MSVOA_N
 ClientSampleId :
 AU-06-062620

Tot Ion: 75 Resp: 22072
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.6#
 39 35.2 36.9 55.3#

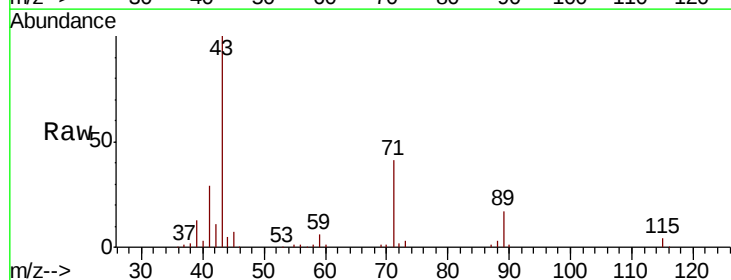


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0

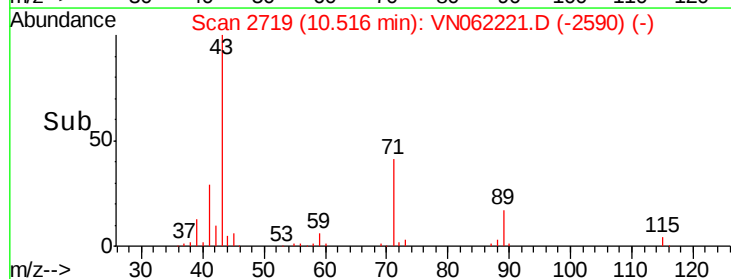
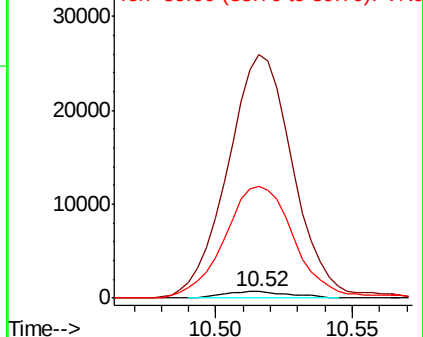


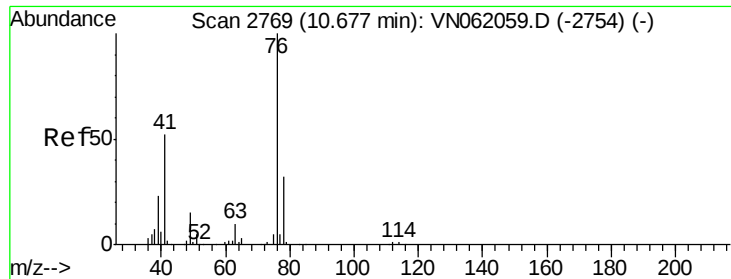
#56
 Ethyl methacrylate
 Concen: 0.302 ug/l
 RT: 10.52 min Scan# 2719
 Delta R.T. 0.12 min
 Lab File: VN062221.D
 Acq: 30 Jun 2020 5:48

Tgt Ion: 69 Resp: 1222
 Ion Ratio Lower Upper
 69 100
 41 3559.6 46.6 70.0#
 39 1742.3 31.0 46.4#



Abundance Ion 69.00 (68.70 to 69.70): VN0
 Ion 41.00 (40.70 to 41.70): VN0
 Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 0.755 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN062221.D

Acq: 30 Jun 2020 5:48

Instrument :

MSVOA_N

ClientSampled :

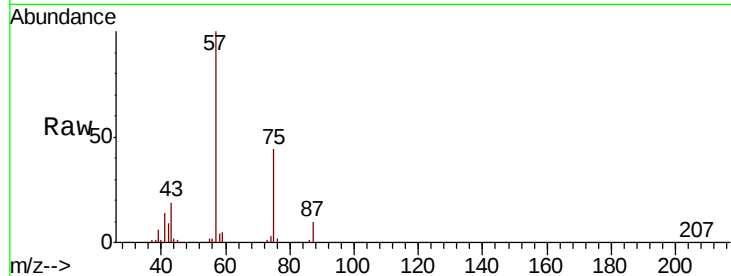
AU-06-062620

Tot Ion: 76 Resp: 3937

Ion Ratio Lower Upper

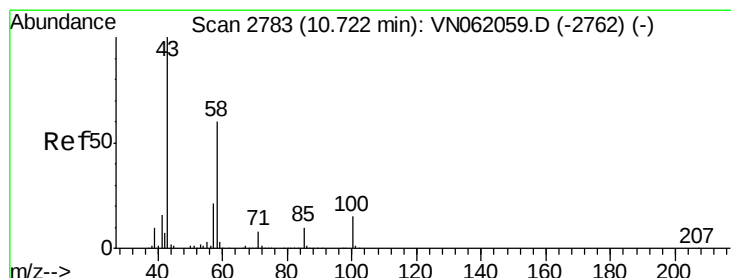
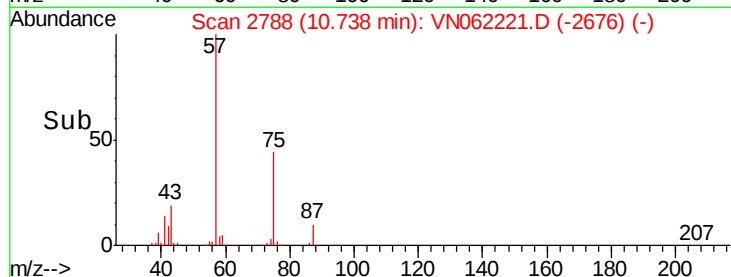
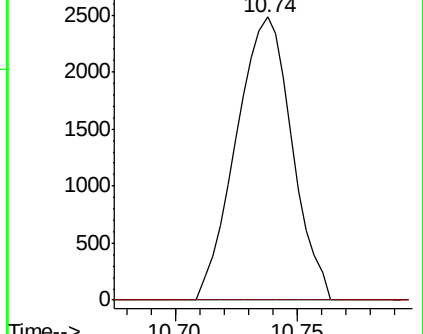
76 100

78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 20.334 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.02 min

Lab File: VN062221.D

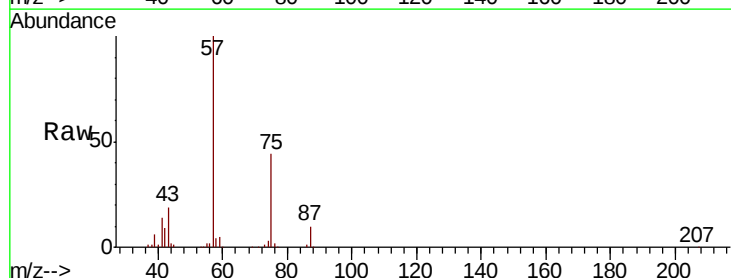
Acq: 30 Jun 2020 5:48

Tgt Ion: 43 Resp: 47964

Ion Ratio Lower Upper

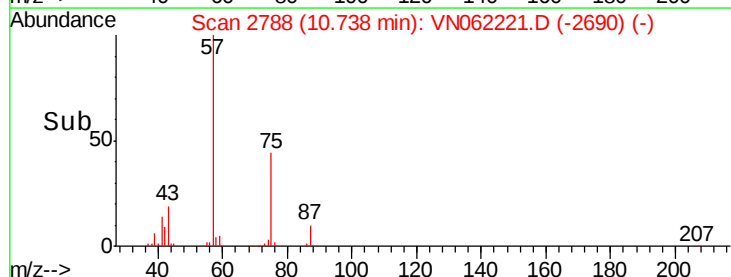
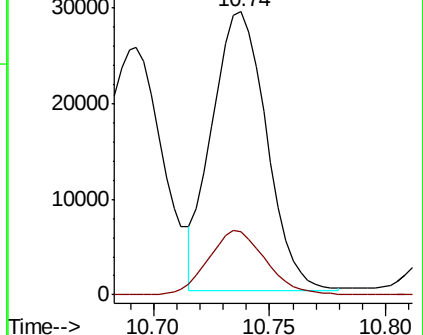
43 100

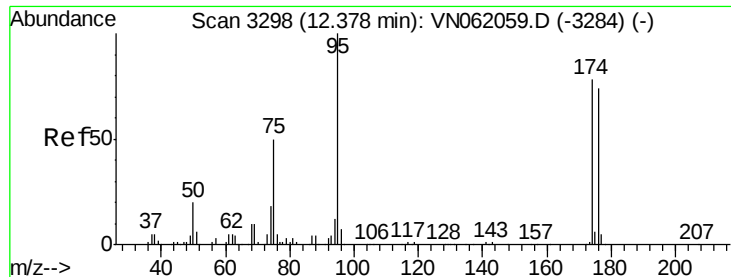
58 24.2 29.5 88.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 47.788 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN062221.D

Acq: 30 Jun 2020 5:48

Instrument :

MSVOA_N

ClientSampled :

AU-06-062620

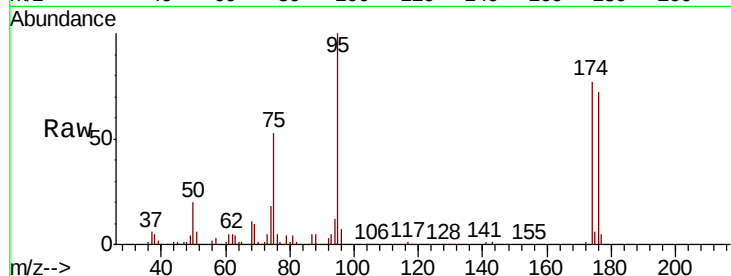
Tot Ion: 95 Resp: 170614

Ion Ratio Lower Upper

95 100

174 75.3 0.0 154.8

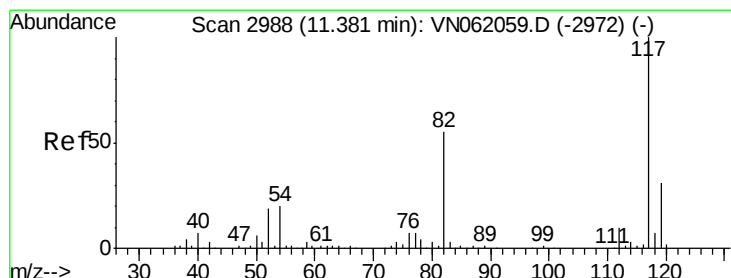
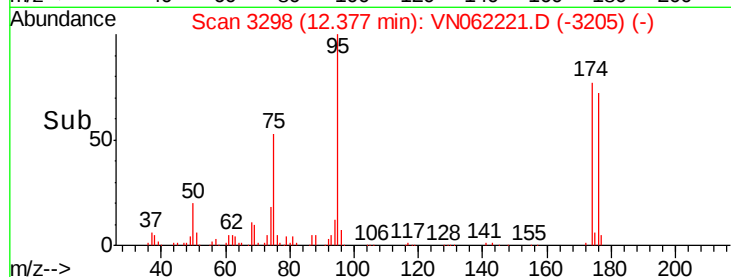
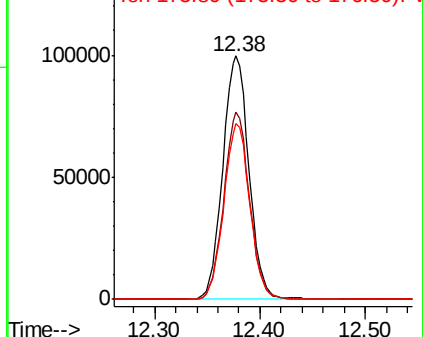
176 71.7 0.0 147.4



Abundance Ion 94.90 (94.60 to 95.60): VN062221.D (-3284) (-)

Ion 173.80 (173.50 to 174.50): VN062221.D (-3284) (-)

Ion 175.80 (175.50 to 176.50): VN062221.D (-3284) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN062221.D

Acq: 30 Jun 2020 5:48

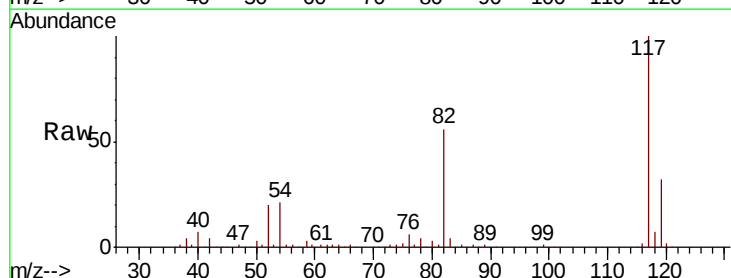
Tgt Ion: 117 Resp: 411967

Ion Ratio Lower Upper

117 100

82 56.4 43.8 65.8

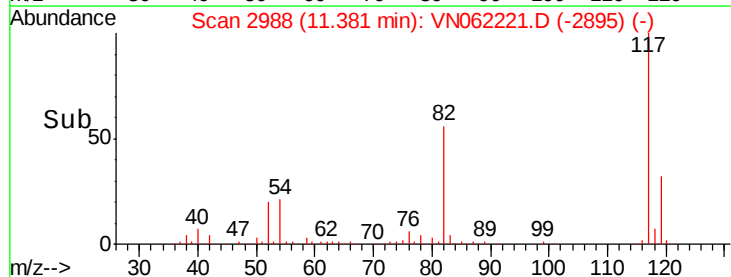
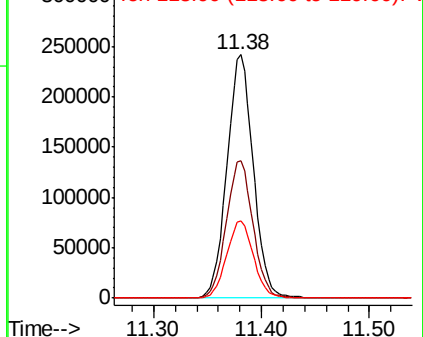
119 31.7 25.2 37.8

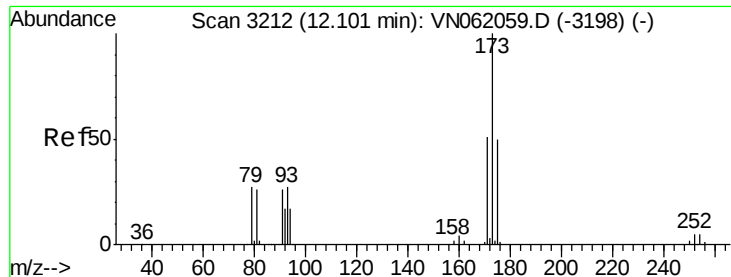


Abundance Ion 116.90 (116.60 to 117.60): VN062221.D (-2895) (-)

Ion 82.00 (81.70 to 82.70): VN062221.D (-2895) (-)

Ion 118.90 (118.60 to 119.60): VN062221.D (-2895) (-)





#71

Bromoform

Concen: 0.388 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.27 min

Lab File: VN062221.D

Acq: 30 Jun 2020 5:48

Instrument :

MSVOA_N

ClientSampleId :

AU-06-062620

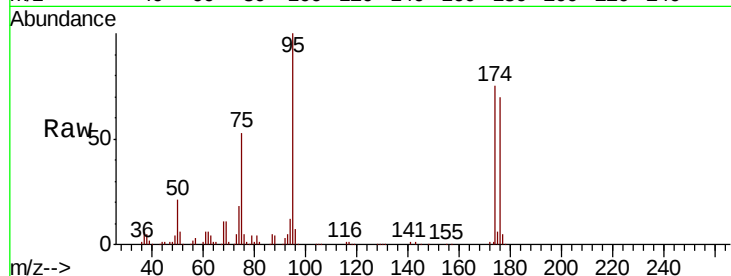
Tot Ion:173 Resp: 864

Ion Ratio Lower Upper

173 100

175 996.8 24.7 74.1#

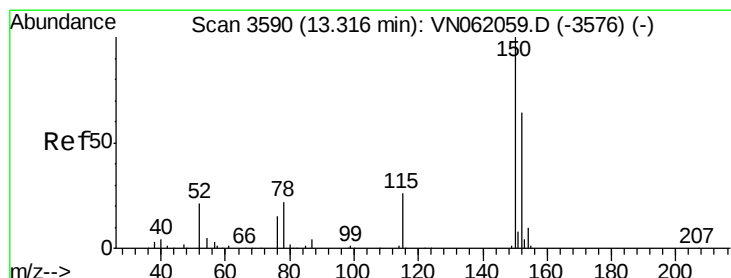
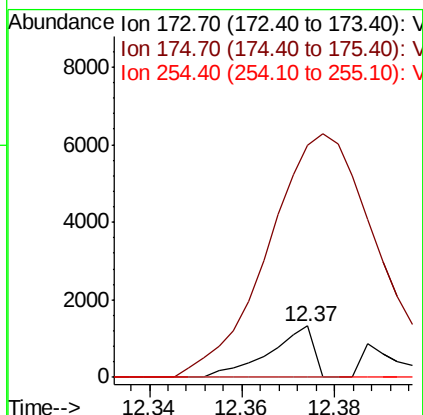
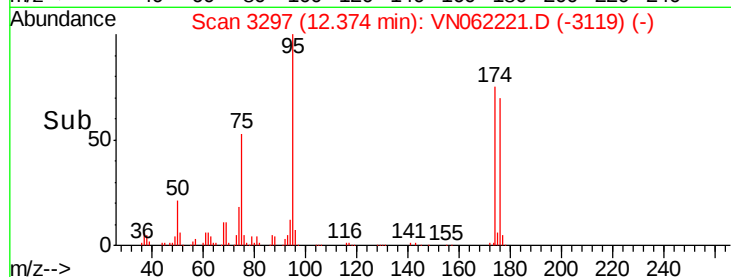
254 0.0 0.0 0.0



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# 3591

Delta R.T. 0.00 min

Lab File: VN062221.D

Acq: 30 Jun 2020 5:48

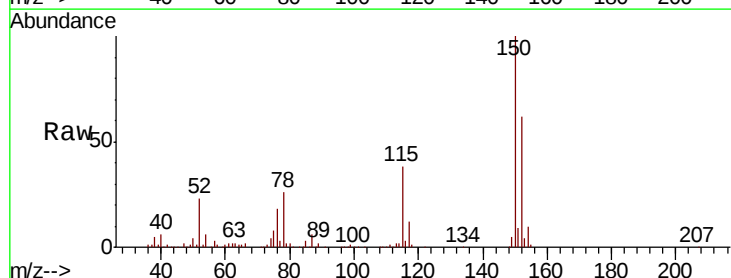
Tgt Ion:152 Resp: 144405

Ion Ratio Lower Upper

152 100

115 60.3 29.5 88.5

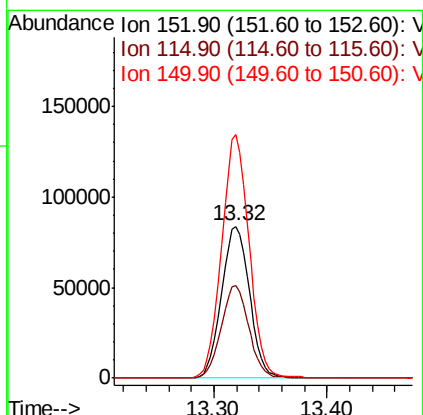
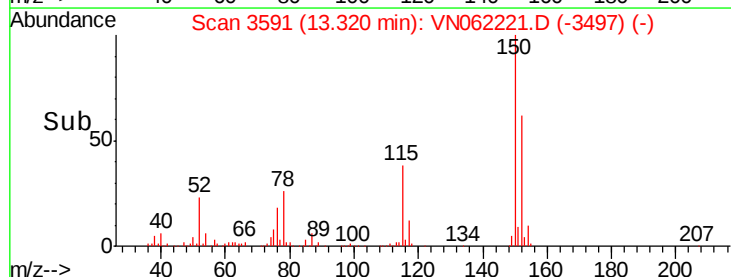
150 157.3 0.0 351.4

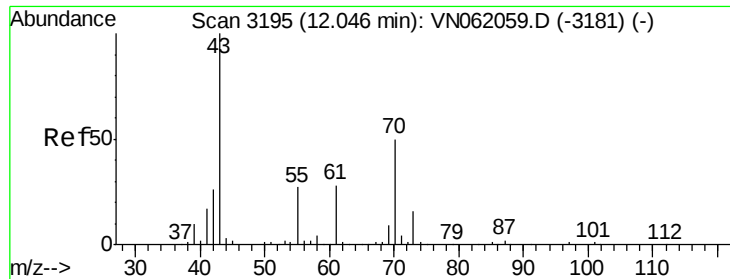


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 3.716 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN062221.D

Acq: 30 Jun 2020 5:48

Instrument :

MSVOA_N

ClientSampled :

AU-06-062620

Tot Ion: 43 Resp: 1644

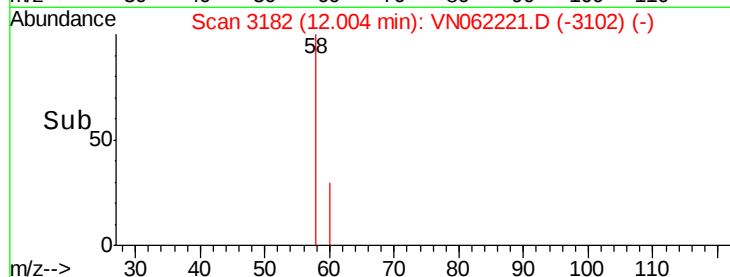
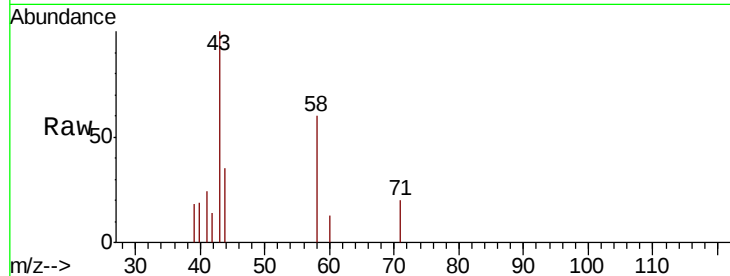
Ion Ratio Lower Upper

43 100

70 0.0 39.4 59.2#

55 0.0 21.7 32.5#

61 0.0 21.3 31.9#

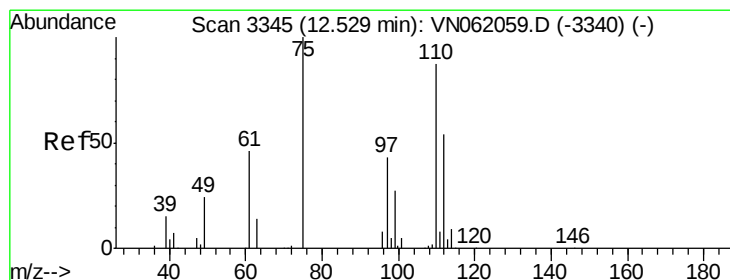
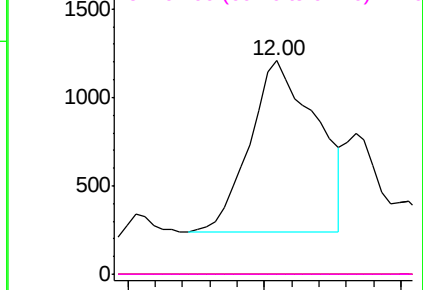


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 26.205 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062221.D

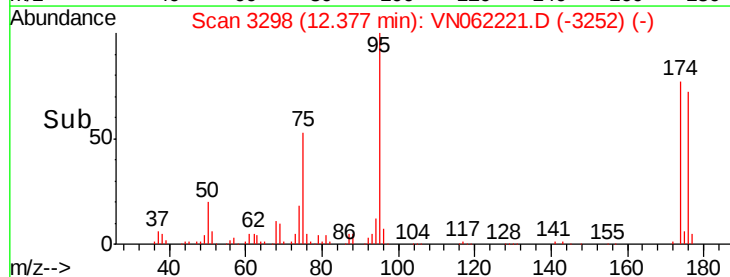
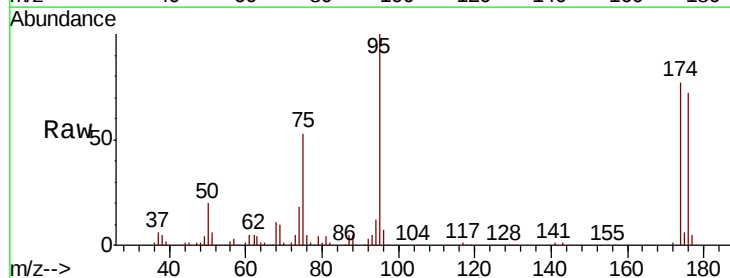
Acq: 30 Jun 2020 5:48

Tgt Ion: 75 Resp: 89080

Ion Ratio Lower Upper

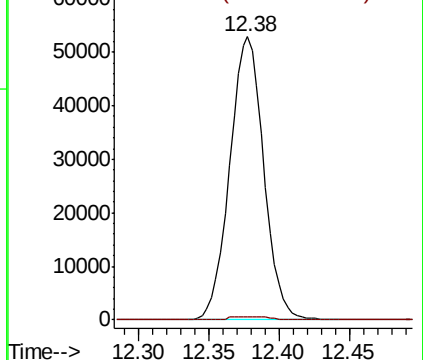
75 100

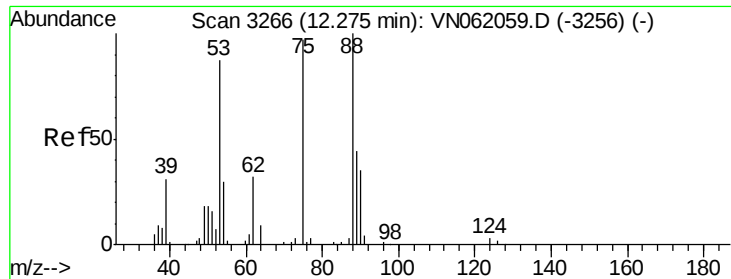
77 1.3 0.0 0.0#



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: 76.527 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062221.D

Acq: 30 Jun 2020 5:48

Instrument :

MSVOA_N

ClientSampleId :

AU-06-062620

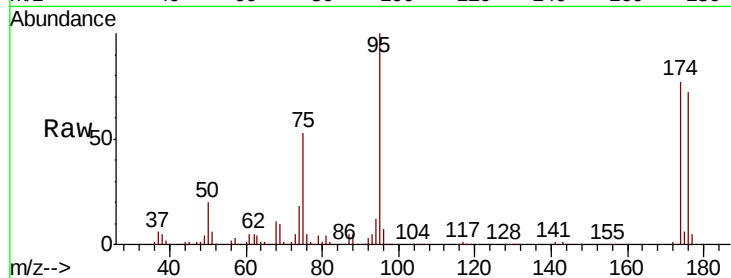
Tot Ion: 75 Resp: 89080

Ion Ratio Lower Upper

75 100

53 0.0 72.0 108.0#

89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

