

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080320\
 Data File : VN062737.D
 Acq On : 3 Aug 2020 15:49
 Operator : JC/MD
 Sample : L3539-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 E-LGC-5

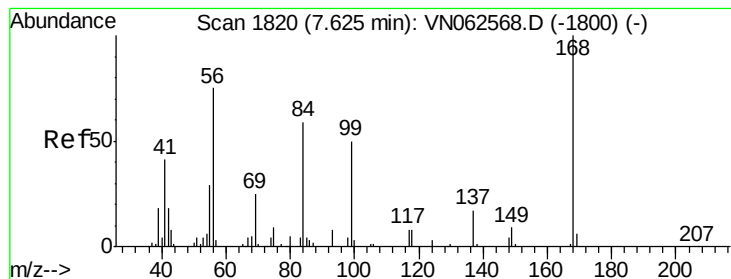
Quant Time: Aug 04 03:32:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072120W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 21 18:48:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	130091	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	227142	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	222505	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	80225	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	111627	55.24	ug/l	0.00
Spiked Amount			Recovery	=	110.48%	
35) Dibromofluoromethane	7.55	113	75056	50.31	ug/l	0.00
Spiked Amount			Recovery	=	100.62%	
50) Toluene-d8	10.06	98	300034	50.40	ug/l	0.00
Spiked Amount			Recovery	=	100.80%	
62) 4-Bromofluorobenzene	12.38	95	104290	47.91	ug/l	0.00
Spiked Amount			Recovery	=	95.82%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	684	0.325	ug/l #	41
11) Tert butyl alcohol	4.74	59	810	2.520	ug/l #	73
14) Allyl chloride	4.22	41	9004	2.988	ug/l #	39
16) Acetone	3.77	43	285522	375.450	ug/l	98
17) Carbon Disulfide	4.01	76	460538	100.626	ug/l	99
18) Methyl Acetate	4.29	43	2510	1.304	ug/l #	61
20) Methylene Chloride	4.50	84	1068	0.586	ug/l #	54
25) 2-Butanone	6.79	43	15772	13.618	ug/l	95
29) Tetrahydrofuran	7.18	42	796	1.016	ug/l #	61
30) Chloroform	7.33	83	1221	0.398	ug/l #	77
31) Cyclohexane	7.63	56	3175	1.066	ug/l #	5
36) 1,1-Dichloropropene	7.63	75	11742	4.850	ug/l #	50
37) Ethyl Acetate	6.79	43	15772	6.043	ug/l #	69
38) Carbon Tetrachloride	7.63	117	14226	6.113	ug/l #	18
40) Benzene	8.00	78	5173	0.706	ug/l #	89
41) Methacrylonitrile	7.18	41	474	0.424	ug/l #	30
55) 1,1,2-Trichloroethane	10.38	97	343	0.208	ug/l #	13
56) Ethyl methacrylate	10.23	69	29	1.778	ug/l #	22
59) 2-Hexanone	10.72	43	239	3.080	ug/l #	26
71) Bromoform	12.38	173	744	0.565	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	59135	28.959	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	59135	80.616	ug/l #	12
95) Naphthalene	15.11	128	18320	8.510	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VN062737.D

Acq: 3 Aug 2020 15:49

Instrument :

MSVOA_N

ClientSampled :

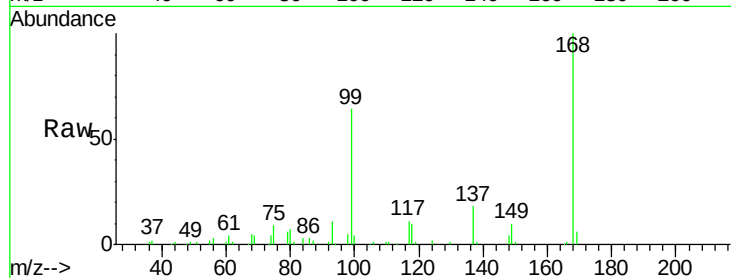
E-LGC-5

Tot Ion:168 Resp: 130091

Ion Ratio Lower Upper

168 100

99 63.6 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

60000

50000

40000

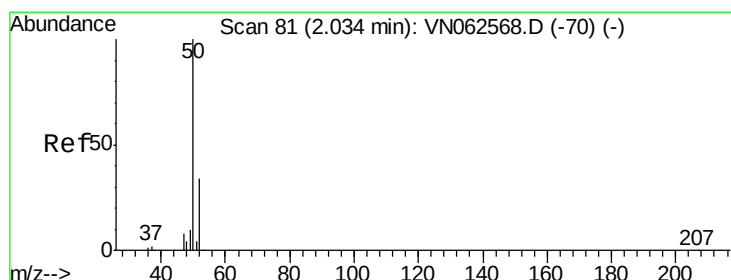
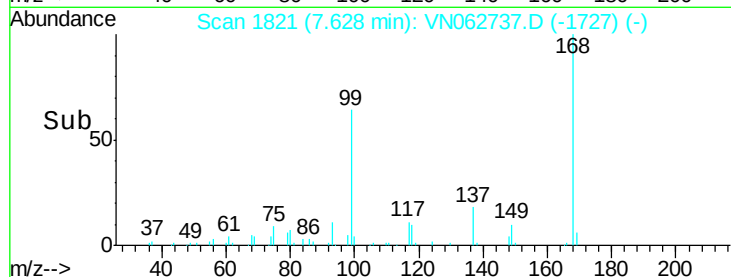
30000

20000

10000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.325 ug/l

RT: 2.03 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN062737.D

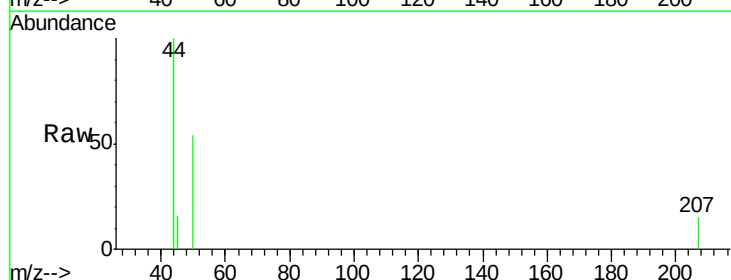
Acq: 3 Aug 2020 15:49

Tgt Ion: 50 Resp: 684

Ion Ratio Lower Upper

50 100

52 0.0 27.0 40.4#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.03

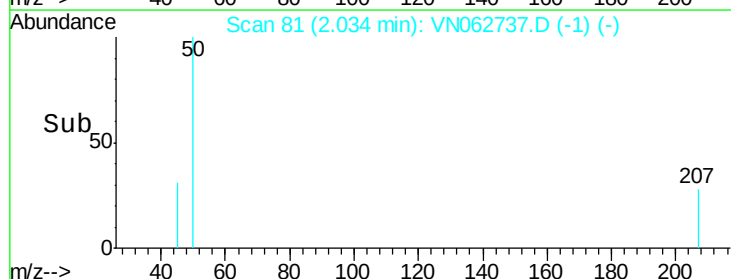
600

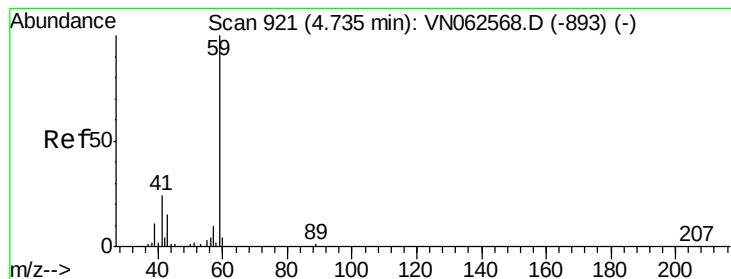
400

200

0

Time--> 2.00 2.02 2.04 2.06





#11

Tert butyl alcohol

Concen: 2.520 ug/l

RT: 4.74 min Scan# 923

Delta R.T. 0.01 min

Lab File: VN062737.D

Acq: 3 Aug 2020 15:49

Instrument :

MSVOA_N

ClientSampled :

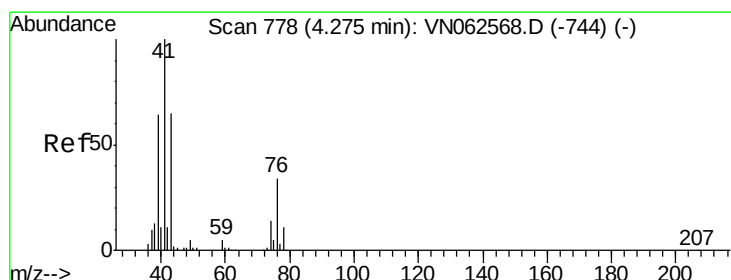
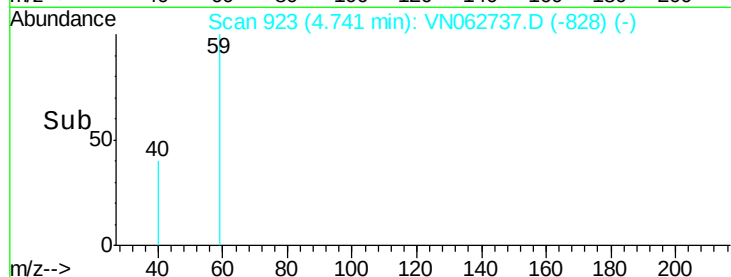
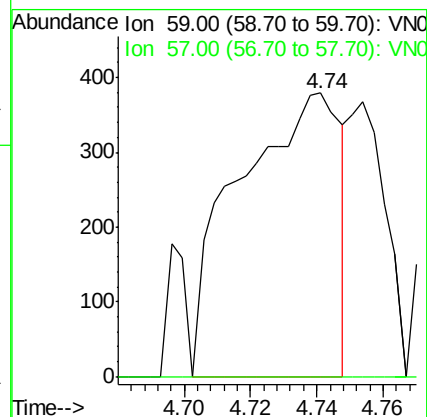
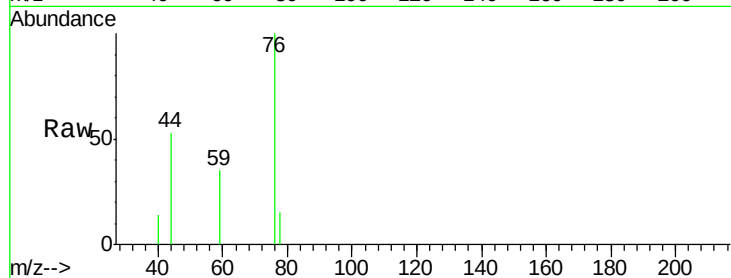
E-LGC-5

Tot Ion: 59 Resp: 810

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#



#14

Allyl chloride

Concen: 2.988 ug/l

RT: 4.22 min Scan# 760

Delta R.T. -0.06 min

Lab File: VN062737.D

Acq: 3 Aug 2020 15:49

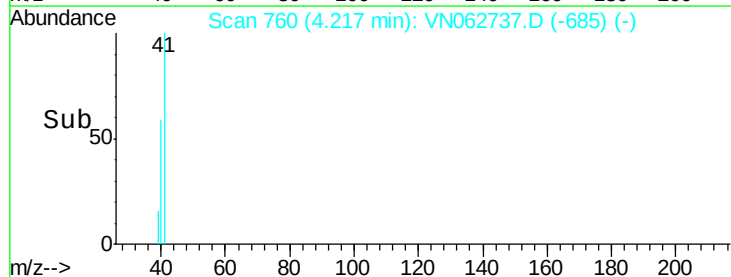
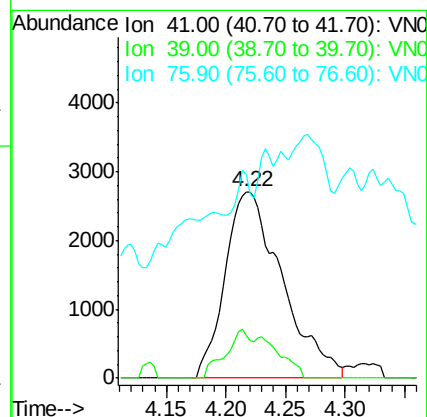
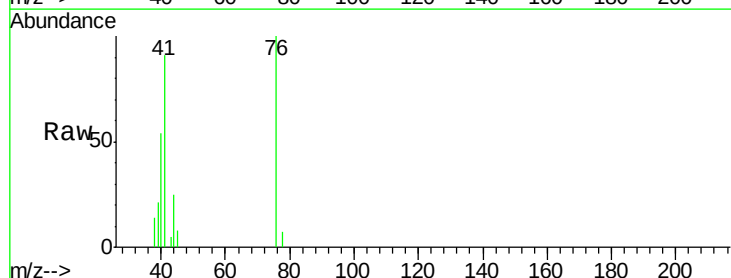
Tgt Ion: 41 Resp: 9004

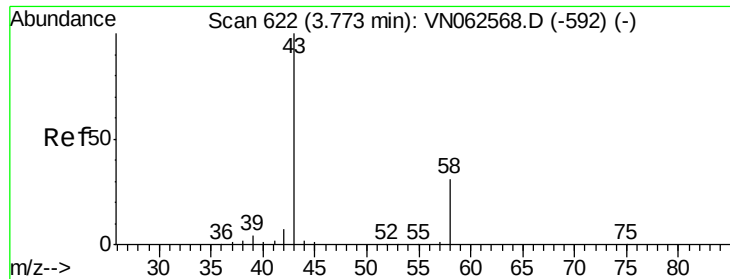
Ion Ratio Lower Upper

41 100

39 12.1 49.0 73.4#

76 0.0 24.0 36.0#





#16

Acetone

Concen: 375.450 ug/l

RT: 3.77 min Scan# 622

Delta R.T. -0.00 min

Lab File: VN062737.D

Acq: 3 Aug 2020 15:49

Instrument :

MSVOA_N

ClientSampleId :

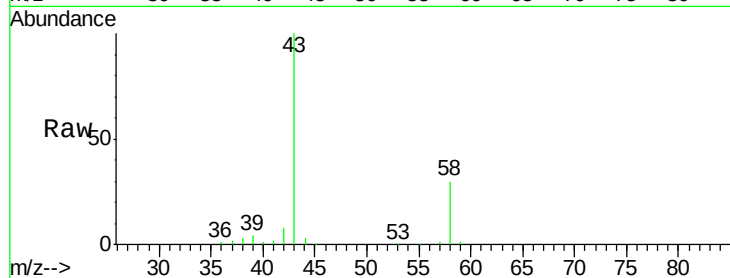
E-LGC-5

Tot Ion: 43 Resp: 285522

Ion Ratio Lower Upper

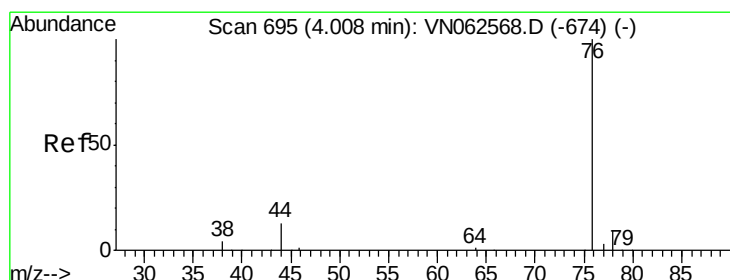
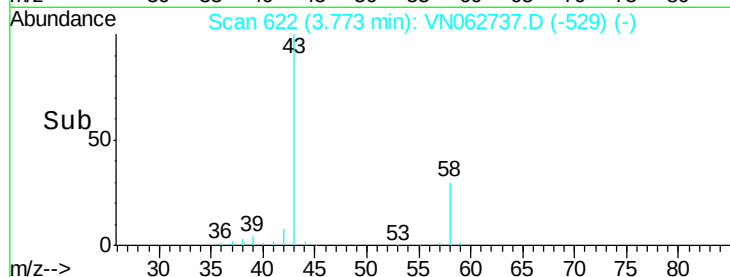
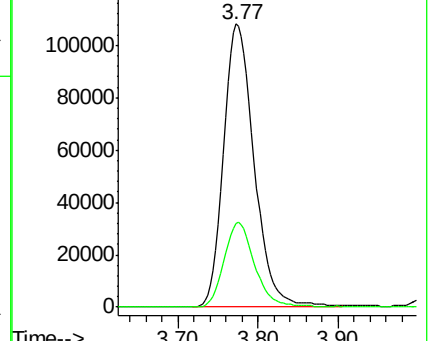
43 100

58 29.8 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VN062737.D (-529) (-)

Ion 58.00 (57.70 to 58.70): VN062737.D (-529) (-)



#17

Carbon Disulfide

Concen: 100.626 ug/l

RT: 4.01 min Scan# 696

Delta R.T. 0.00 min

Lab File: VN062737.D

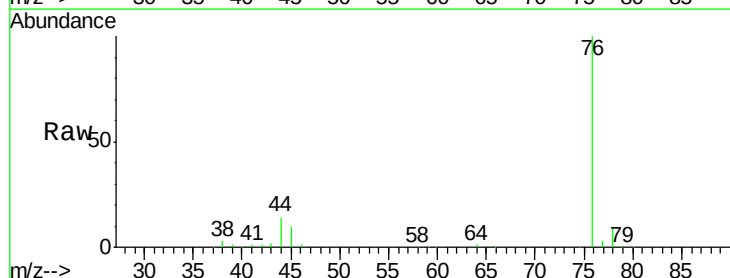
Acq: 3 Aug 2020 15:49

Tgt Ion: 76 Resp: 460538

Ion Ratio Lower Upper

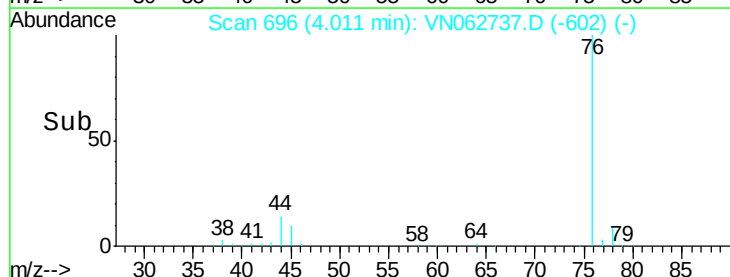
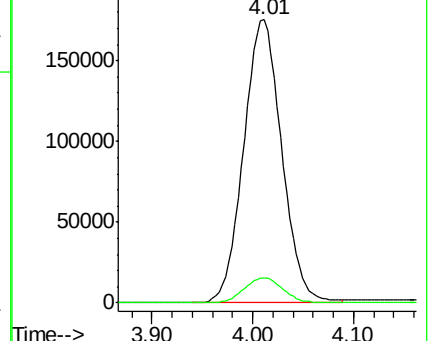
76 100

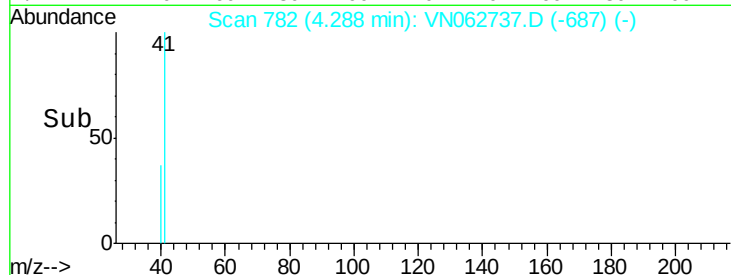
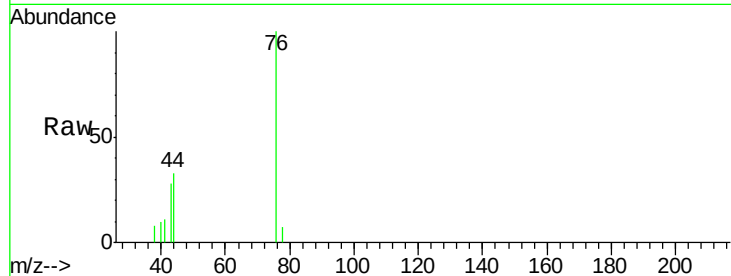
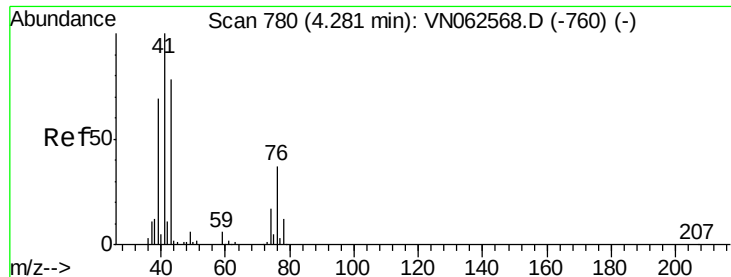
78 8.7 7.3 10.9



Abundance Ion 75.90 (75.60 to 76.60): VN062737.D (-602) (-)

Ion 77.90 (77.60 to 78.60): VN062737.D (-602) (-)

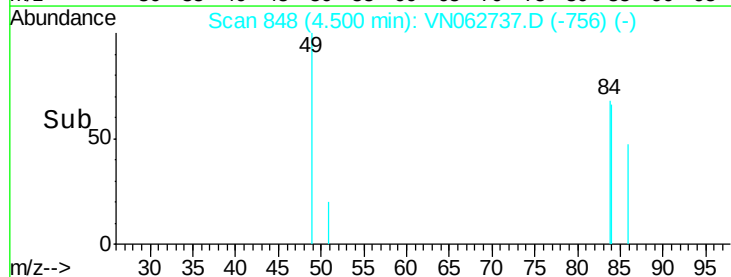
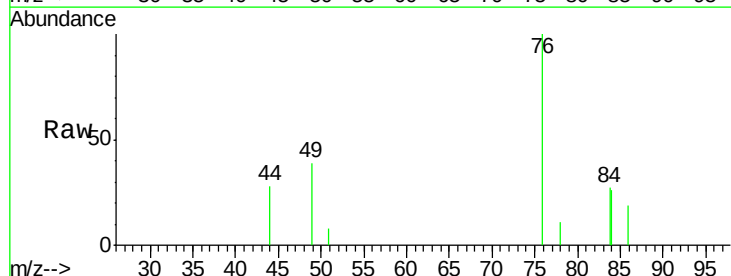
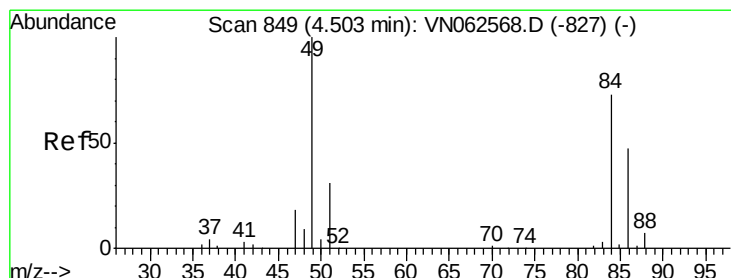
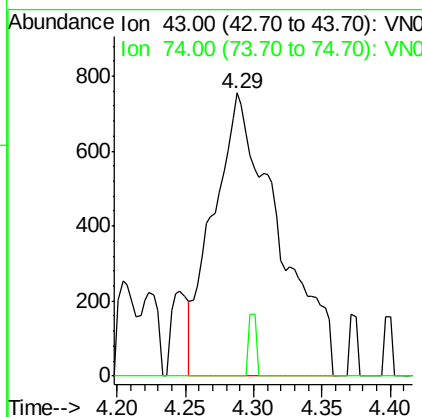




#18
Methyl Acetate
Concen: 1.304 ug/l
RT: 4.29 min Scan# 782
Delta R.T. 0.01 min
Lab File: VN062737.D
Acq: 3 Aug 2020 15:49

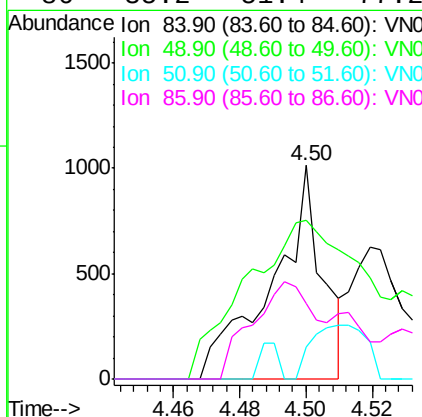
Instrument :
MSVOA_N
ClientSampled :
E-LGC-5

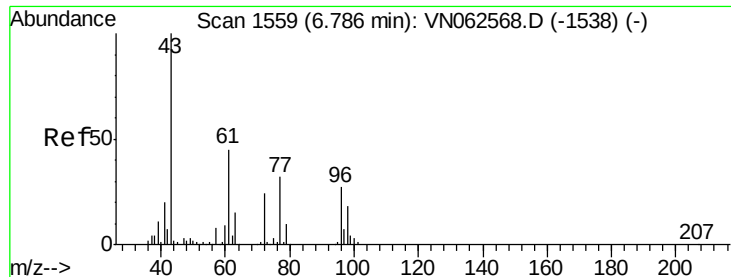
Tot Ion: 43 Resp: 2510
Ion Ratio Lower Upper
43 100
74 2.5 16.6 24.8#



#20
Methylene Chloride
Concen: 0.586 ug/l
RT: 4.50 min Scan# 848
Delta R.T. -0.00 min
Lab File: VN062737.D
Acq: 3 Aug 2020 15:49

Tgt Ion: 84 Resp: 1068
Ion Ratio Lower Upper
84 100
49 74.4 109.4 164.0#
51 15.1 33.6 50.4#
86 35.2 51.4 77.2#

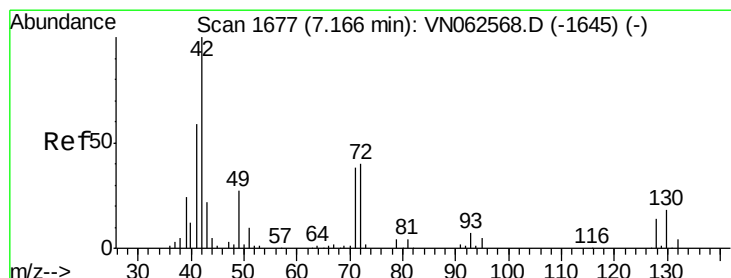
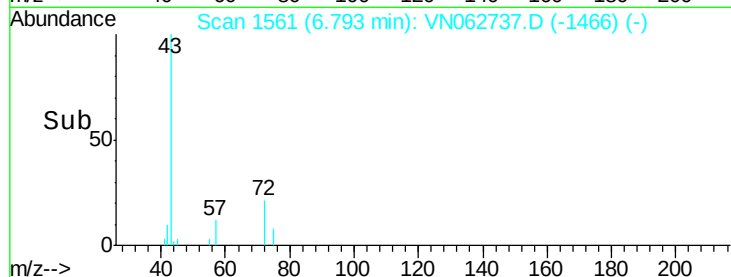
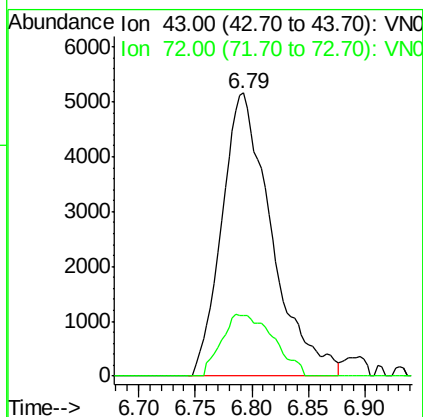
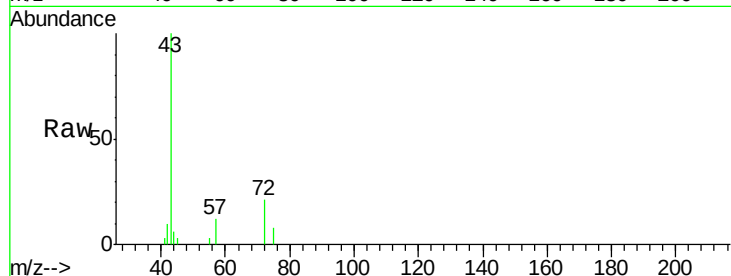




#25
 2-Butanone
 Concen: 13.618 ug/l
 RT: 6.79 min Scan# 1561
 Delta R.T. 0.01 min
 Lab File: VN062737.D
 Acq: 3 Aug 2020 15:49

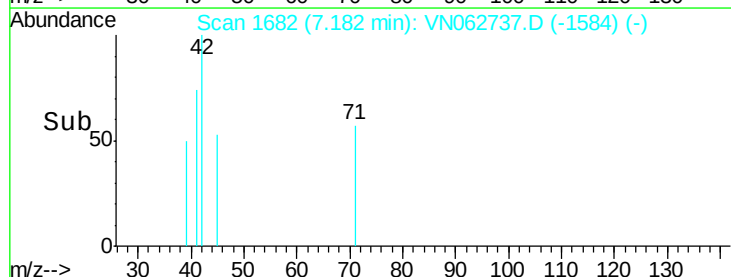
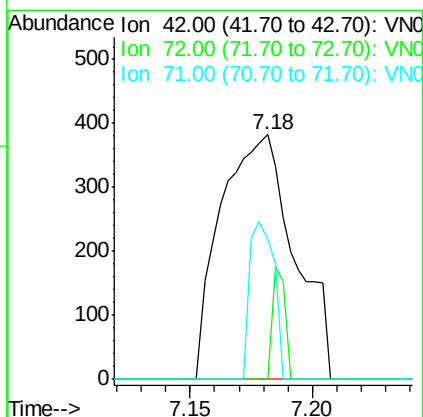
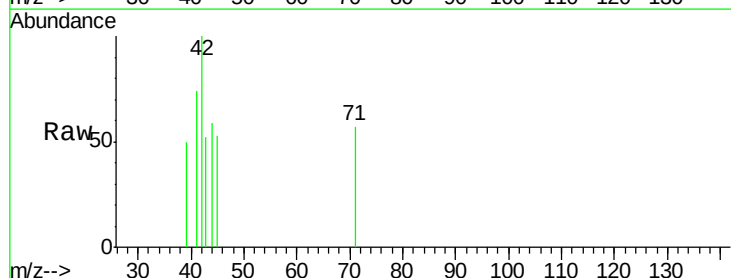
Instrument :
 MSVOA_N
 ClientSampled :
 E-LGC-5

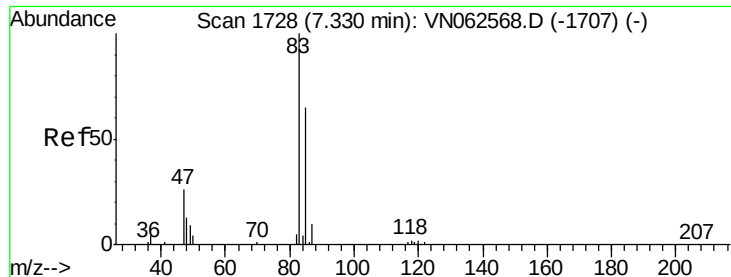
Tot Ion: 43 Resp: 15772
 Ion Ratio Lower Upper
 43 100
 72 21.3 19.0 28.6



#29
 Tetrahydrofuran
 Concen: 1.016 ug/l
 RT: 7.18 min Scan# 1682
 Delta R.T. 0.02 min
 Lab File: VN062737.D
 Acq: 3 Aug 2020 15:49

Tgt Ion: 42 Resp: 796
 Ion Ratio Lower Upper
 42 100
 72 7.9 30.7 46.1#
 71 20.9 29.1 43.7#

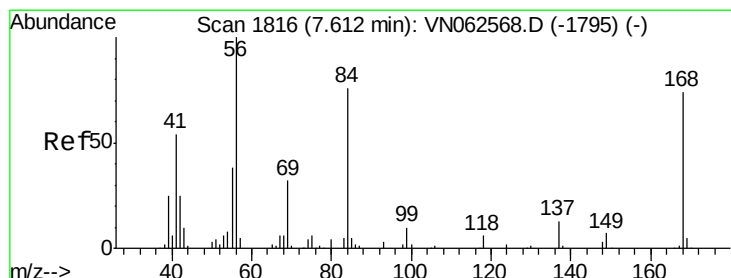
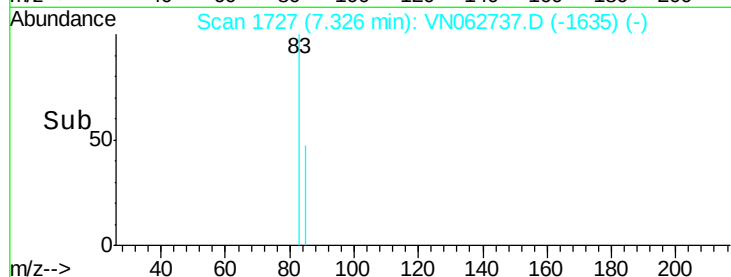
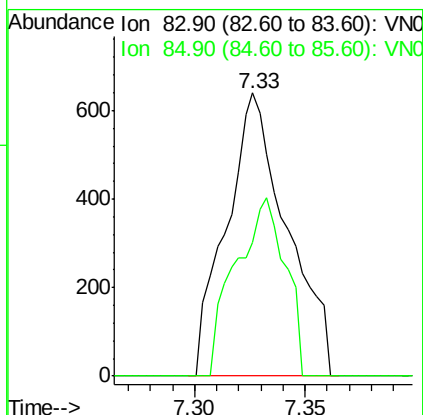
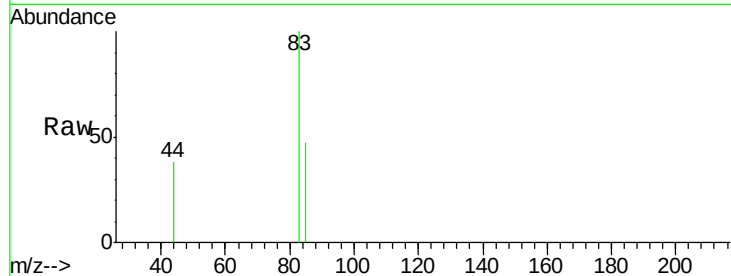




#30
Chloroform
Concen: 0.398 ug/l
RT: 7.33 min Scan# 1727
Delta R.T. -0.00 min
Lab File: VN062737.D
Acq: 3 Aug 2020 15:49

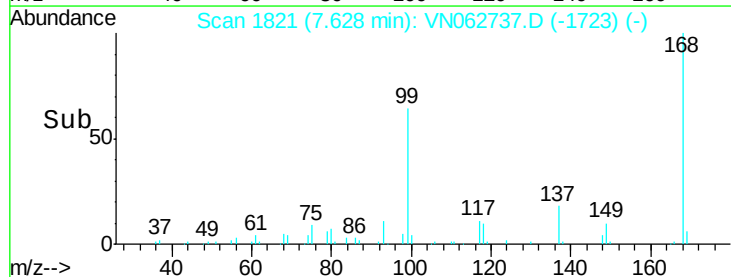
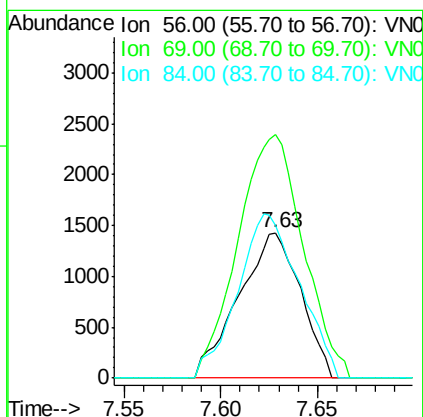
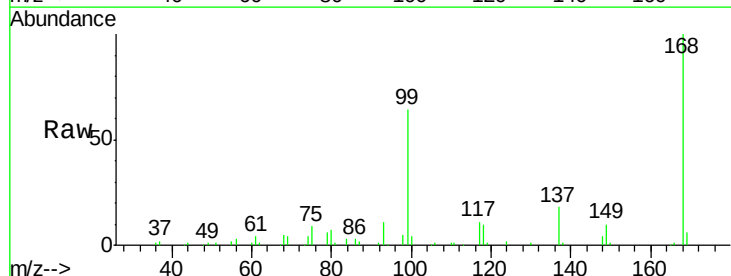
Instrument :
MSVOA_N
ClientSampleId :
E-LGC-5

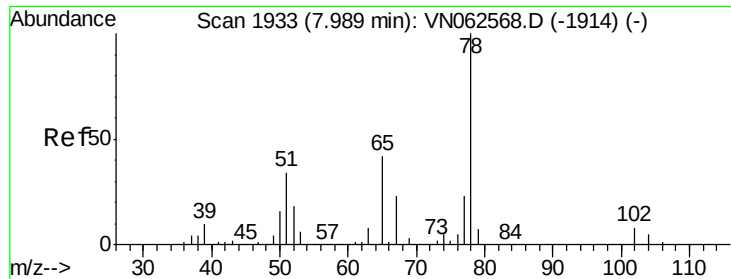
Tot Ion: 83 Resp: 1221
Ion Ratio Lower Upper
83 100
85 47.1 52.0 78.0#



#31
Cyclohexane
Concen: 1.066 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. 0.02 min
Lab File: VN062737.D
Acq: 3 Aug 2020 15:49

Tgt Ion: 56 Resp: 3175
Ion Ratio Lower Upper
56 100
69 167.4 25.3 37.9#
84 104.6 61.0 91.4#

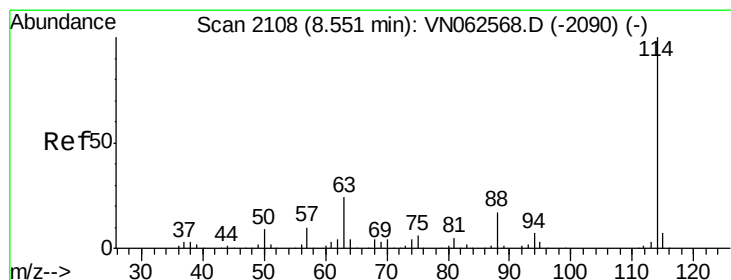
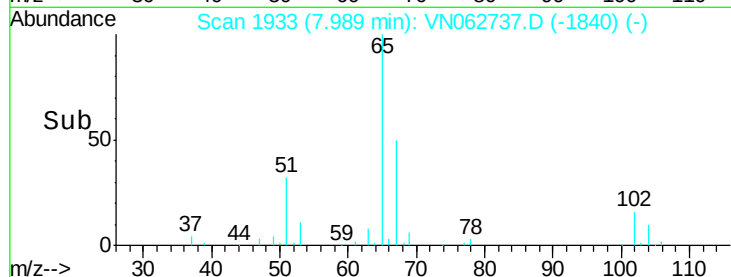
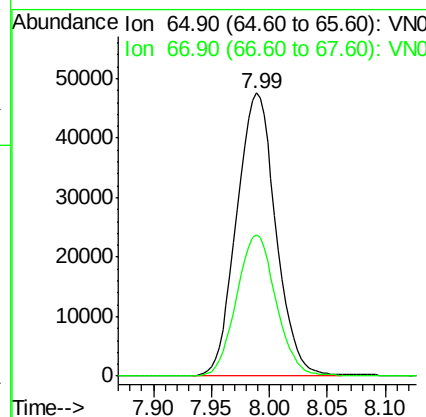
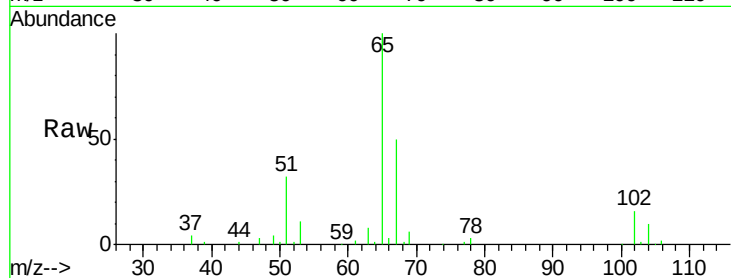




#33
 1,2-Dichloroethane-d4
 Concen: 55.236 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. -0.00 min
 Lab File: VN062737.D
 Acq: 3 Aug 2020 15:49

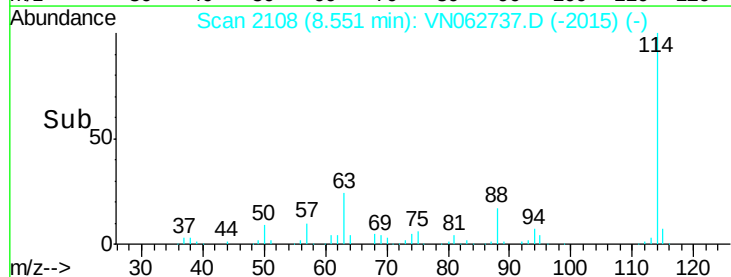
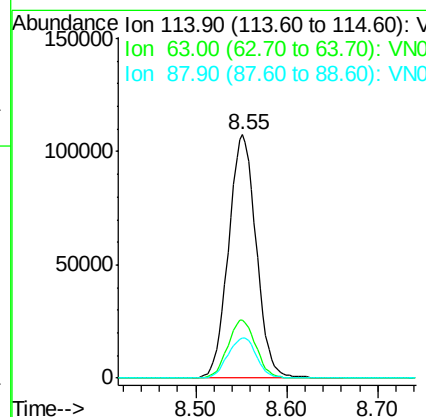
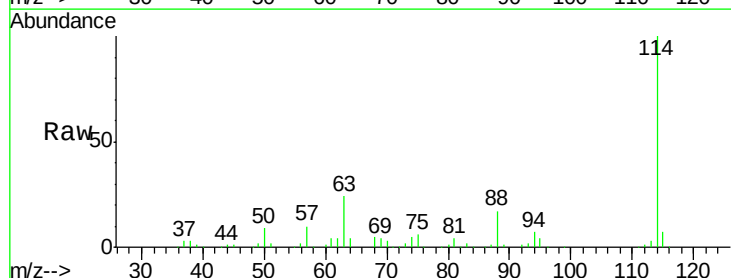
Instrument :
 MSVOA_N
 ClientSampled :
 E-LGC-5

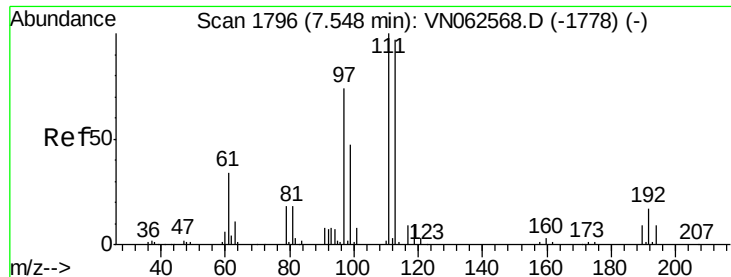
Tot Ion: 65 Resp: 111627
 Ion Ratio Lower Upper
 65 100
 67 50.2 0.0 106.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN062737.D
 Acq: 3 Aug 2020 15:49

Tgt Ion: 114 Resp: 227142
 Ion Ratio Lower Upper
 114 100
 63 24.0 0.0 48.4
 88 16.6 0.0 33.8

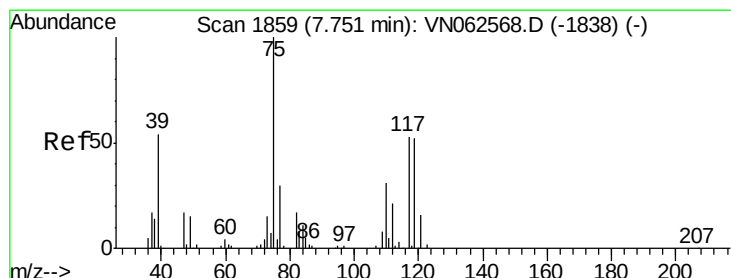
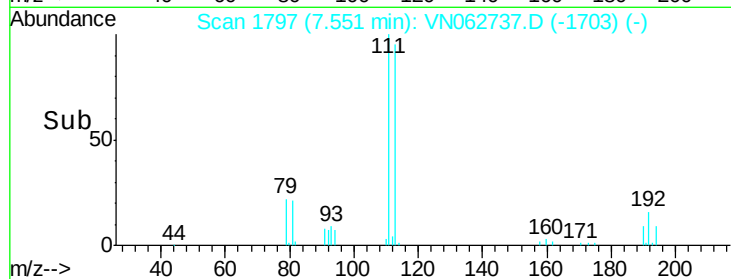
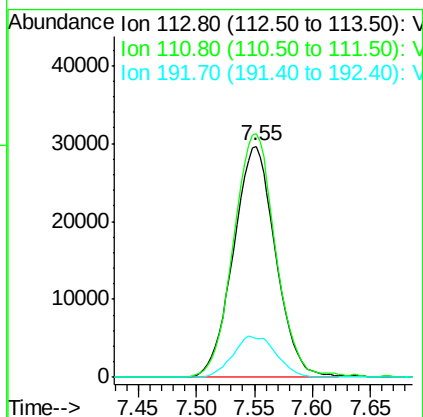
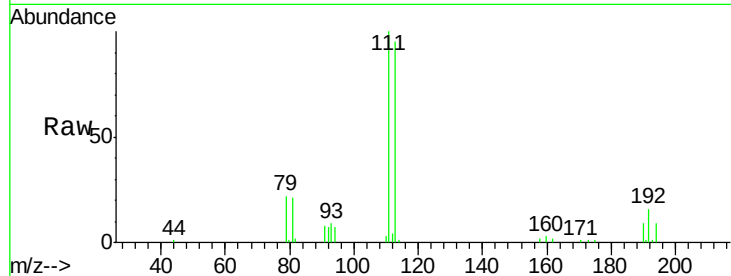




#35
 Dibromofluoromethane
 Concen: 50.306 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN062737.D
 Acq: 3 Aug 2020 15:49

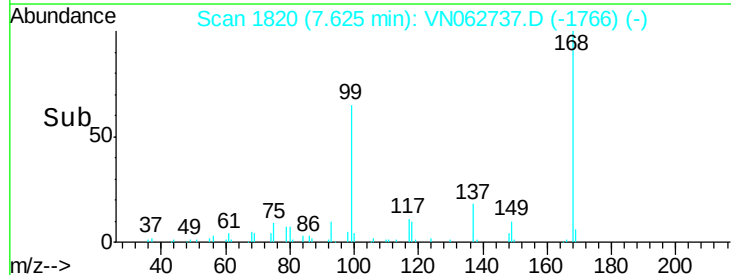
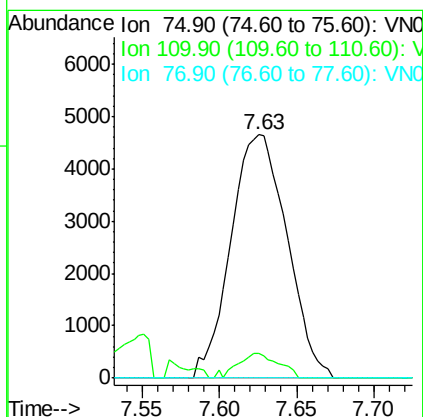
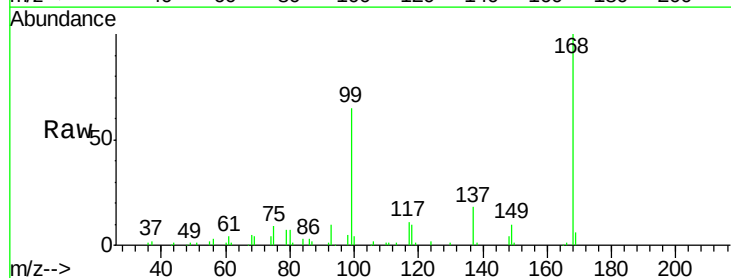
Instrument :
 MSVOA_N
 ClientSampleId :
 E-LGC-5

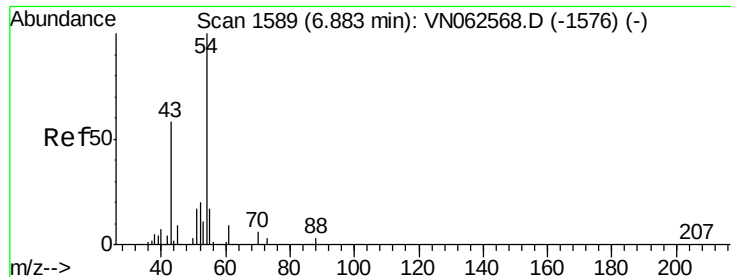
Tot Ion:113 Resp: 75056
 Ion Ratio Lower Upper
 113 100
 111 105.3 82.7 124.1
 192 18.3 14.8 22.2



#36
 1,1-Dichloropropene
 Concen: 4.850 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062737.D
 Acq: 3 Aug 2020 15:49

Tgt Ion: 75 Resp: 11742
 Ion Ratio Lower Upper
 75 100
 110 7.3 16.0 48.0#
 77 0.0 24.6 36.8#

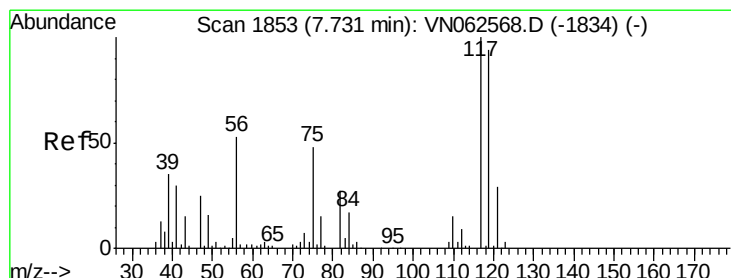
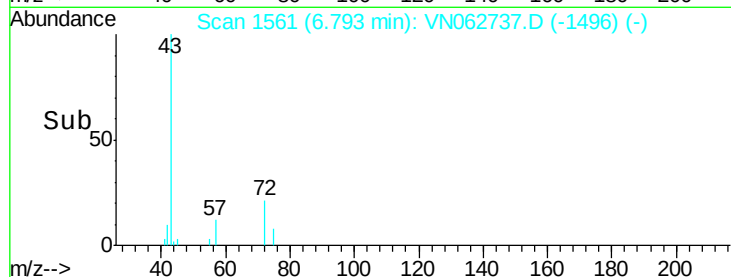
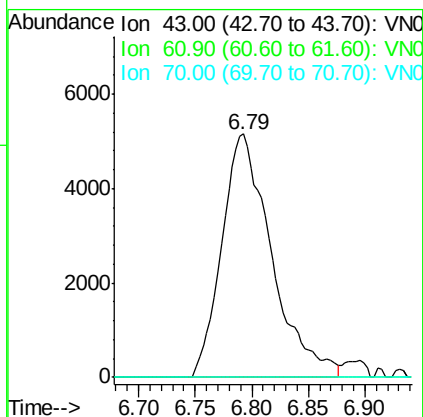
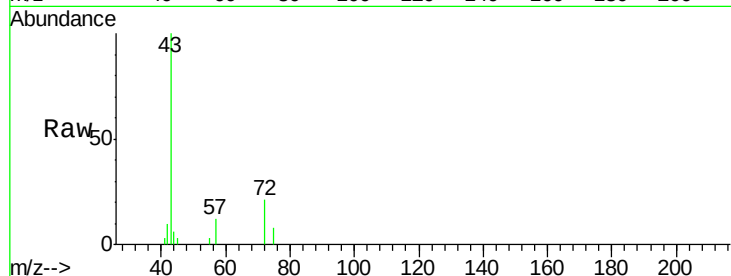




#37
Ethyl Acetate
Concen: 6.043 ug/l
RT: 6.79 min Scan# 1561
Delta R.T. -0.09 min
Lab File: VN062737.D
Acq: 3 Aug 2020 15:49

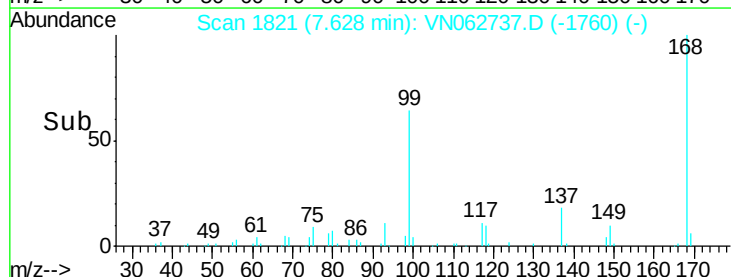
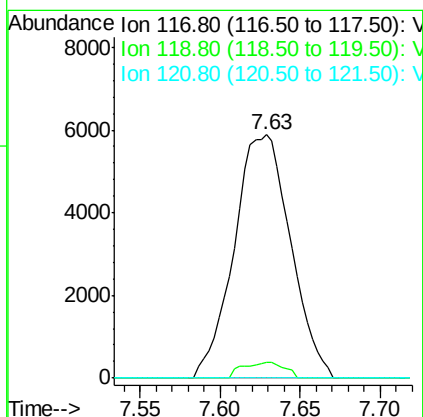
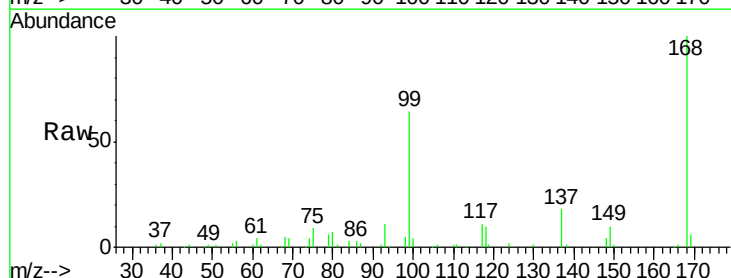
Instrument :
MSVOA_N
ClientSampleId :
E-LGC-5

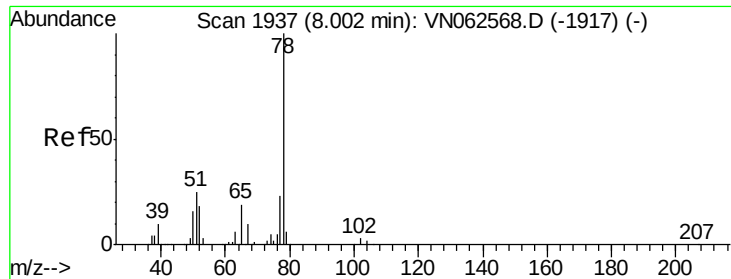
Tot Ion: 43 Resp: 15772
Ion Ratio Lower Upper
43 100
61 0.0 11.3 16.9#
70 0.0 7.7 11.5#



#38
Carbon Tetrachloride
Concen: 6.113 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. -0.10 min
Lab File: VN062737.D
Acq: 3 Aug 2020 15:49

Tgt Ion: 117 Resp: 14226
Ion Ratio Lower Upper
117 100
119 6.2 74.8 112.2#
121 0.0 23.0 34.6#





#40

Benzene

Concen: 0.706 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN062737.D

Acq: 3 Aug 2020 15:49

Instrument :

MSVOA_N

ClientSampleId :

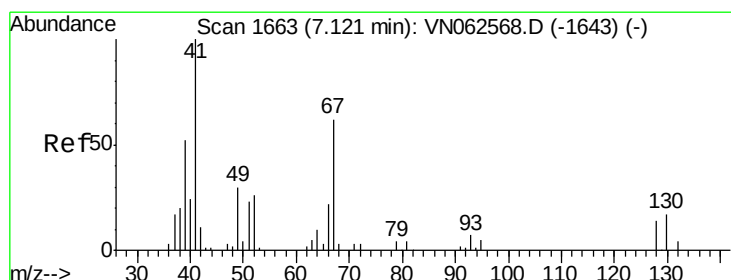
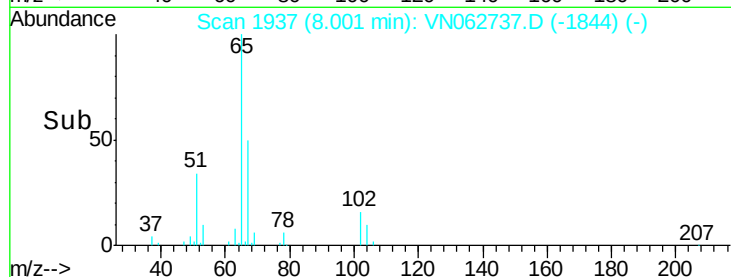
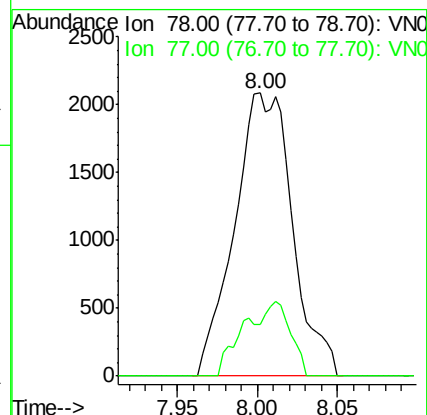
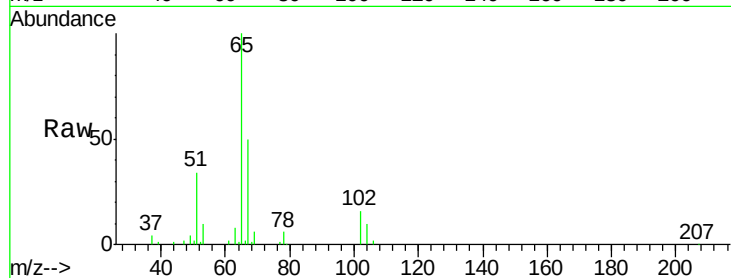
E-LGC-5

Tot Ion: 78 Resp: 5173

Ion Ratio Lower Upper

78 100

77 18.2 18.7 28.1#



#41

Methacrylonitrile

Concen: 0.424 ug/l

RT: 7.18 min Scan# 1681

Delta R.T. 0.06 min

Lab File: VN062737.D

Acq: 3 Aug 2020 15:49

Tgt Ion: 41 Resp: 474

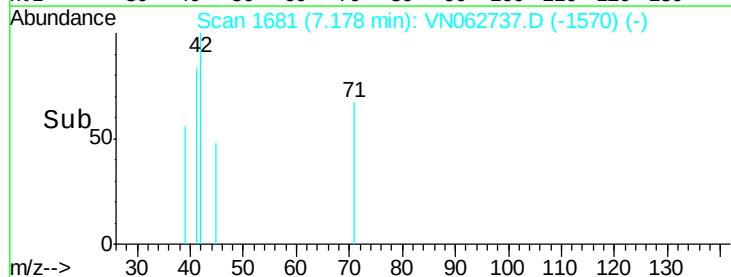
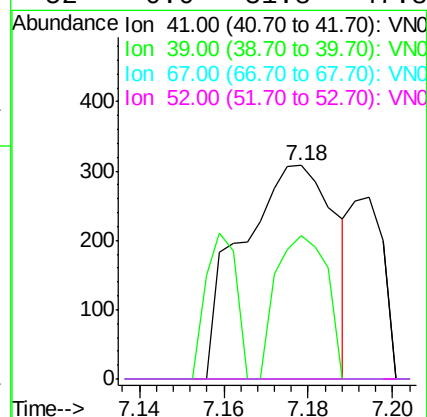
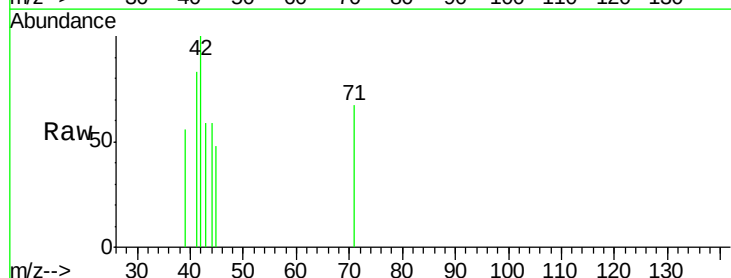
Ion Ratio Lower Upper

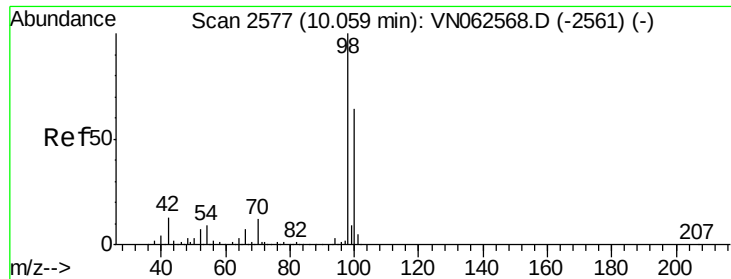
41 100

39 36.5 55.8 83.6#

67 0.0 72.5 108.7#

52 0.0 31.8 47.8#





#50

Toluene-d8

Concen: 50.401 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062737.D

Acq: 3 Aug 2020 15:49

Instrument :

MSVOA_N

ClientSampled :

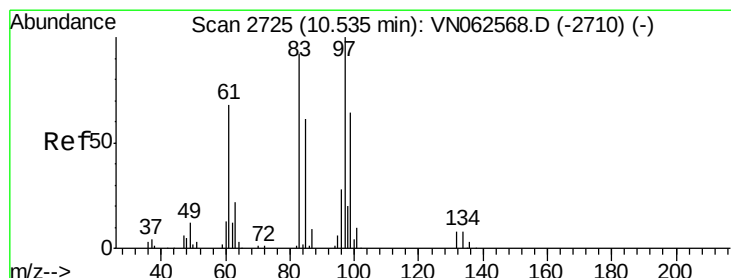
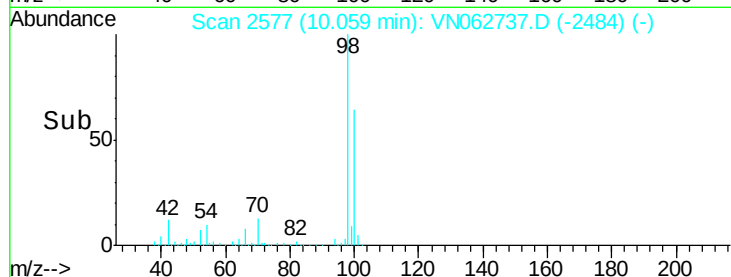
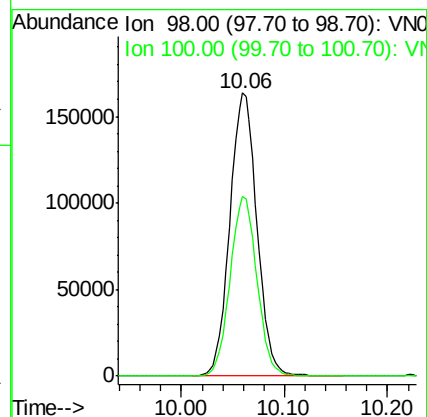
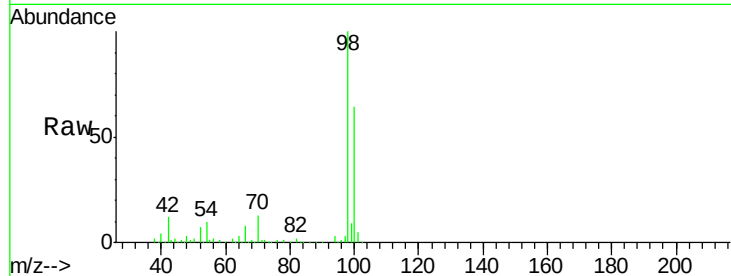
E-LGC-5

Tot Ion: 98 Resp: 300034

Ion Ratio Lower Upper

98 100

100 62.9 50.9 76.3



#55

1,1,2-Trichloroethane

Concen: 0.208 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. -0.15 min

Lab File: VN062737.D

Acq: 3 Aug 2020 15:49

Tgt Ion: 97 Resp: 343

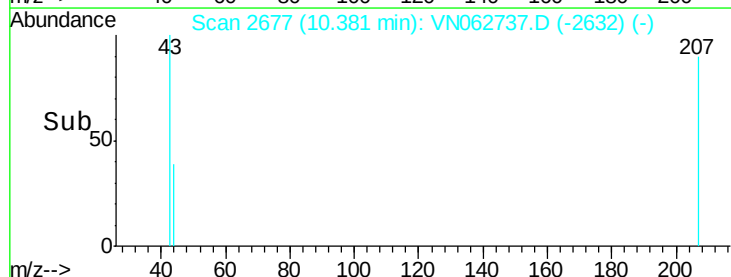
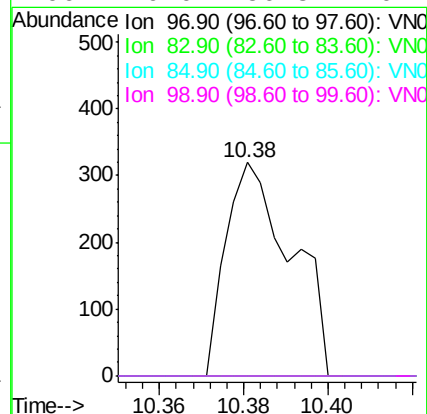
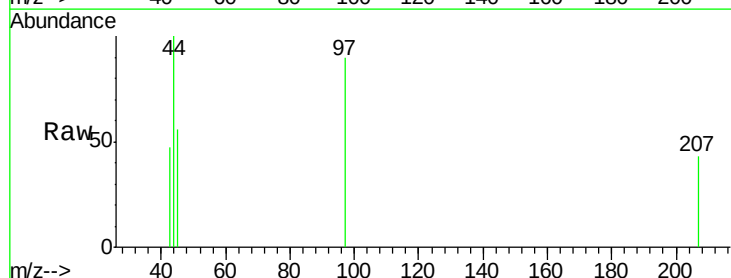
Ion Ratio Lower Upper

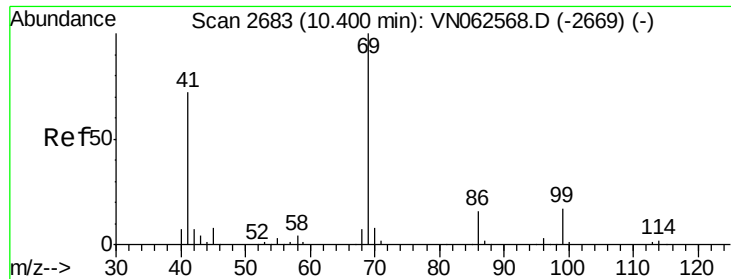
97 100

83 0.0 73.7 110.5#

85 0.0 48.5 72.7#

99 0.0 50.8 76.2#





#56

Ethyl methacrylate

Concen: 1.778 ug/l

RT: 10.23 min Scan# 2630

Delta R.T. -0.17 min

Lab File: VN062737.D

Acq: 3 Aug 2020 15:49

Instrument :

MSVOA_N

ClientSampled :

E-LGC-5

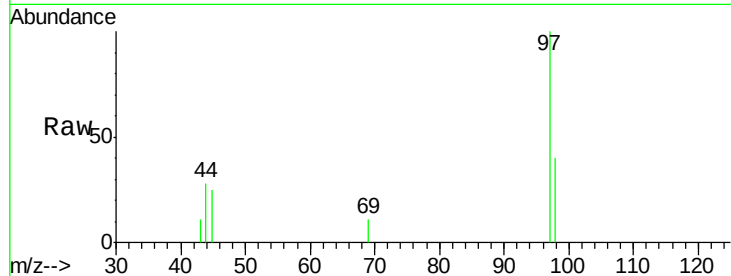
Tot Ion: 69 Resp: 29

Ion Ratio Lower Upper

69 100

41 0.0 57.2 85.8#

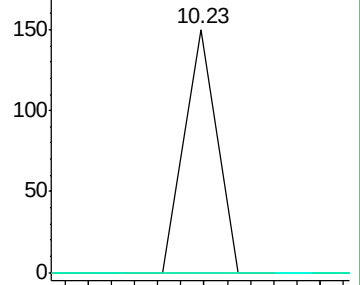
39 0.0 28.6 43.0#



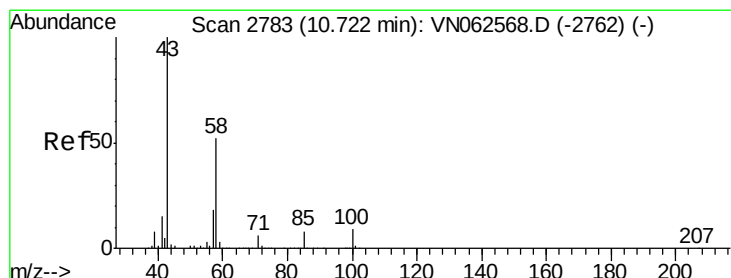
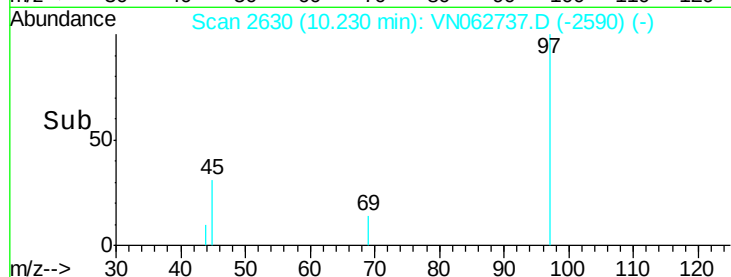
Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



Time-->



#59

2-Hexanone

Concen: 3.080 ug/l

RT: 10.72 min Scan# 2782

Delta R.T. -0.00 min

Lab File: VN062737.D

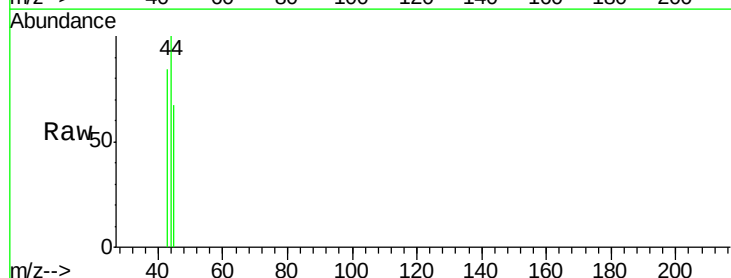
Acq: 3 Aug 2020 15:49

Tgt Ion: 43 Resp: 239

Ion Ratio Lower Upper

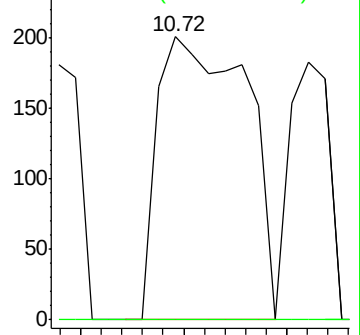
43 100

58 0.0 26.0 78.0#

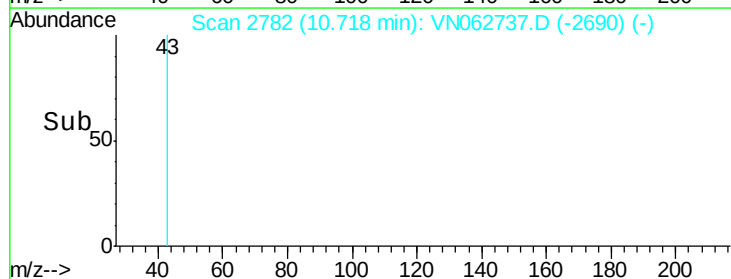


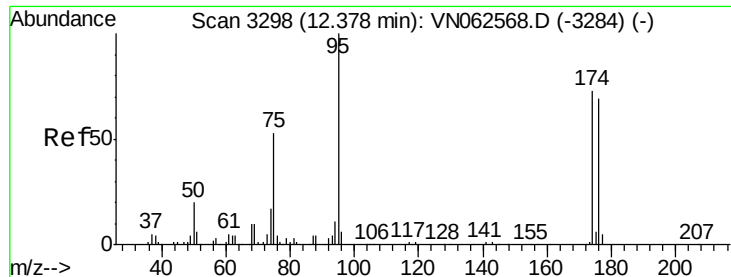
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->





#62

4-Bromofluorobenzene

Concen: 47.913 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN062737.D

Acq: 3 Aug 2020 15:49

Instrument :

MSVOA_N

ClientSampleId :

E-LGC-5

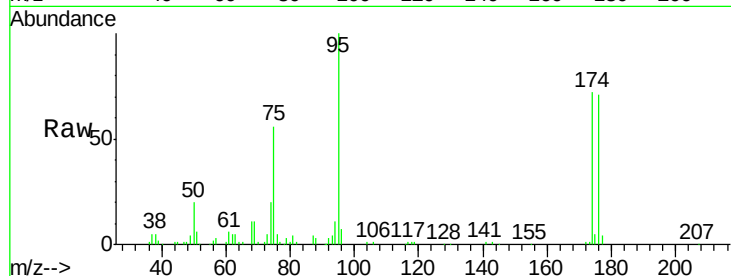
Tot Ion: 95 Resp: 104290

Ion Ratio Lower Upper

95 100

174 75.4 0.0 144.6

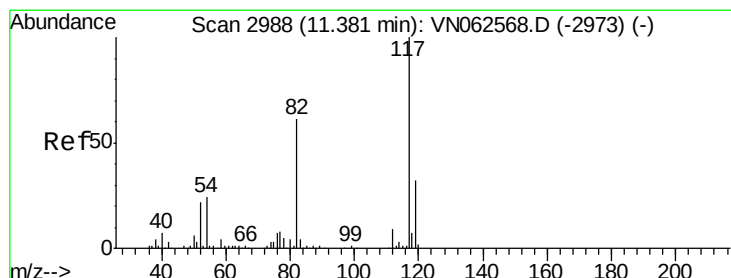
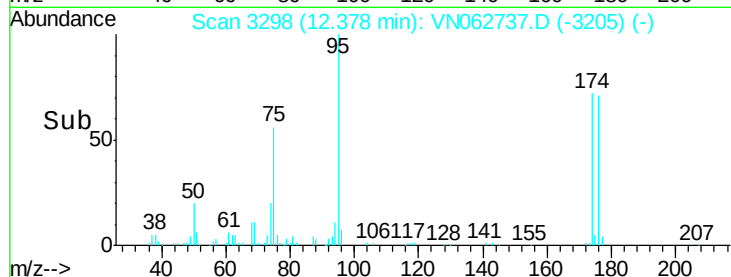
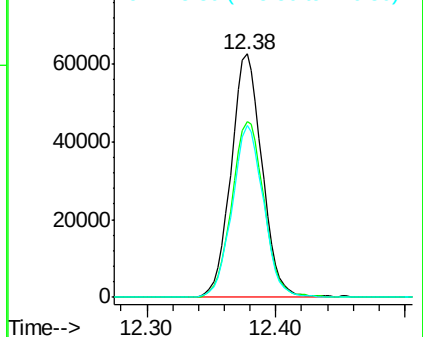
176 71.6 0.0 139.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN062737.D

Acq: 3 Aug 2020 15:49

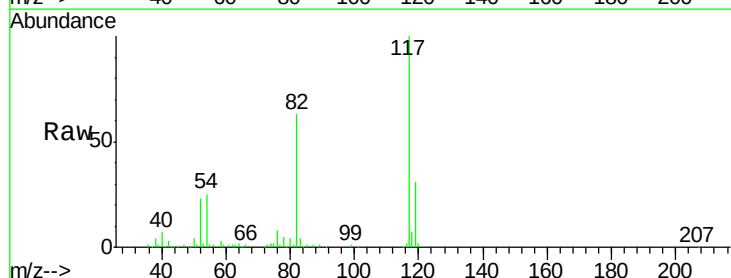
Tgt Ion: 117 Resp: 222505

Ion Ratio Lower Upper

117 100

82 62.8 49.0 73.6

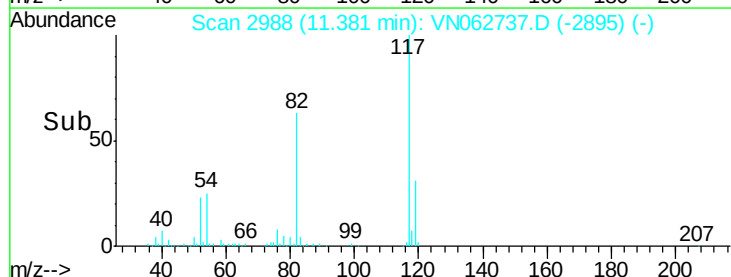
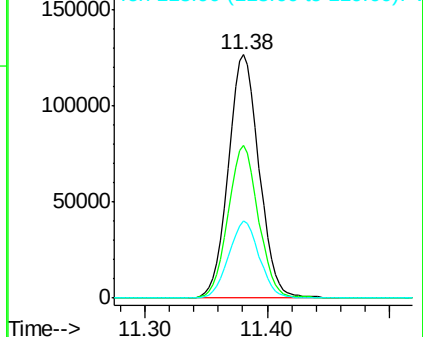
119 31.5 25.4 38.2

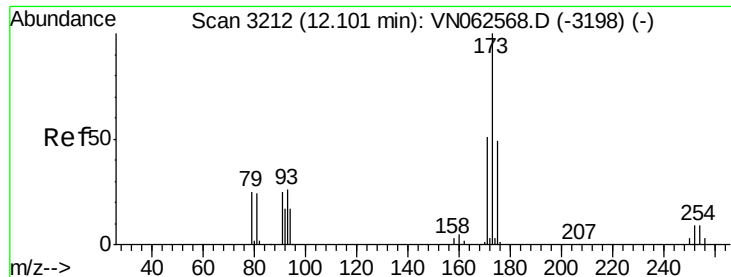


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#71

Bromoform

Concen: 0.565 ug/l

RT: 12.38 min Scan# 3299

Delta R.T. 0.28 min

Lab File: VN062737.D

Acq: 3 Aug 2020 15:49

Instrument :

MSVOA_N

ClientSampleId :

E-LGC-5

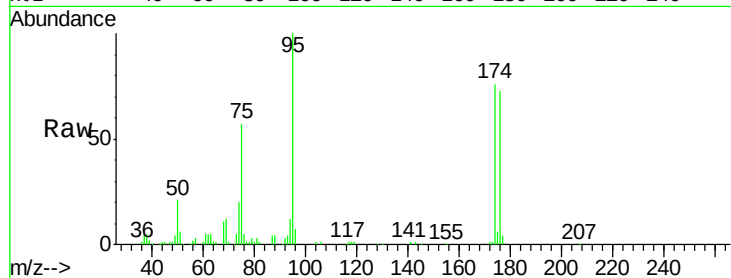
Tot Ion:173 Resp: 744

Ion Ratio Lower Upper

173 100

175 657.4 24.1 72.2#

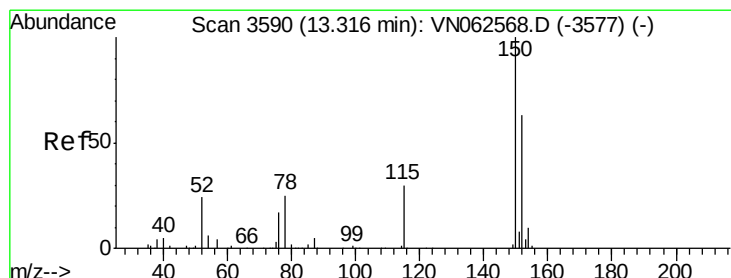
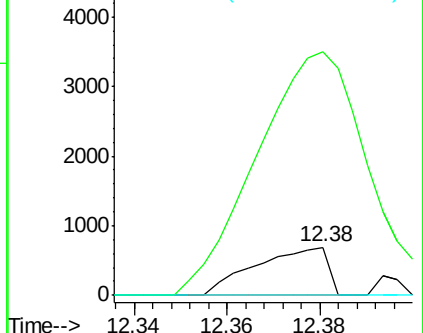
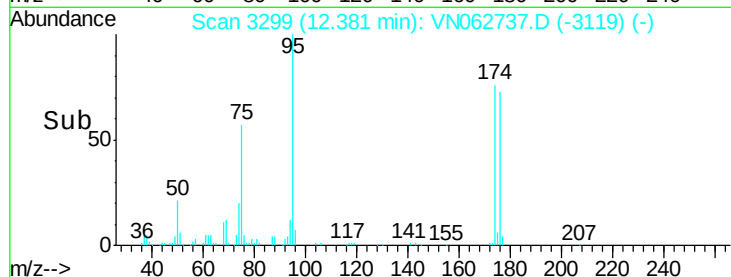
254 0.0 0.0 0.0



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: VN062737.D

Acq: 3 Aug 2020 15:49

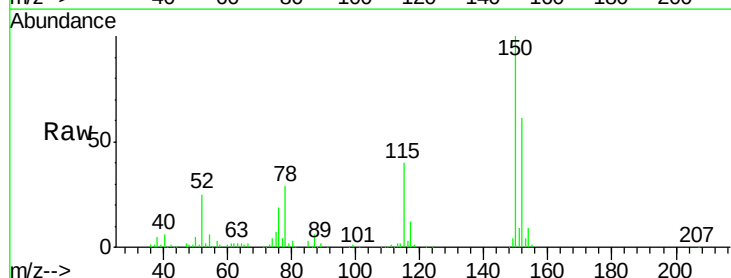
Tgt Ion:152 Resp: 80225

Ion Ratio Lower Upper

152 100

115 64.7 31.8 95.4

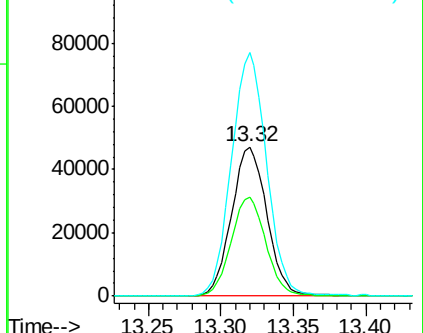
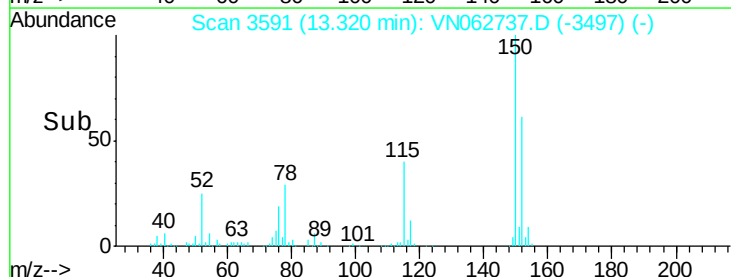
150 162.0 0.0 351.4

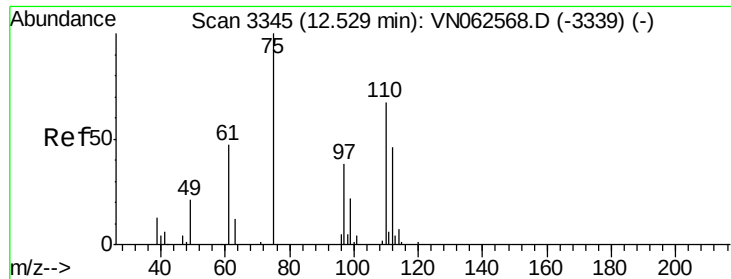


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

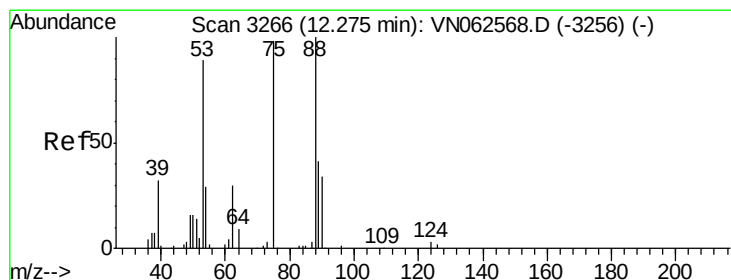
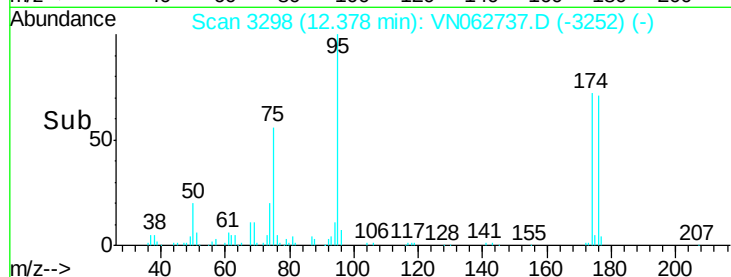
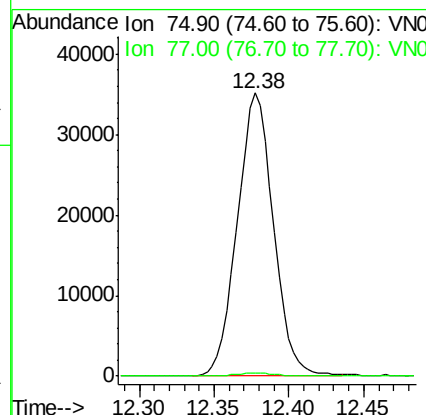
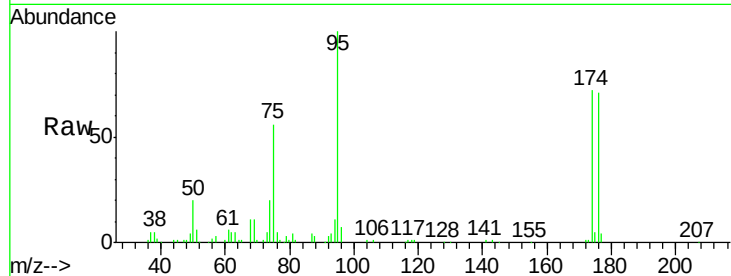




#76
 1,2,3-Trichloropropane
 Concen: 28.959 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.15 min
 Lab File: VN062737.D
 Acq: 3 Aug 2020 15:49

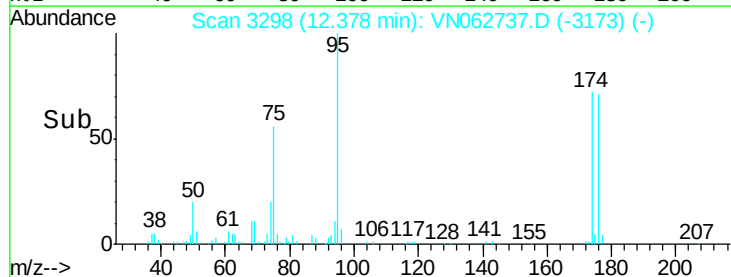
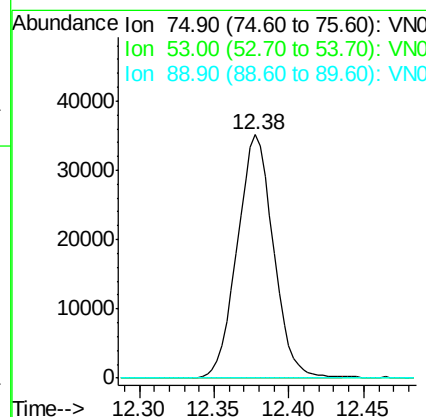
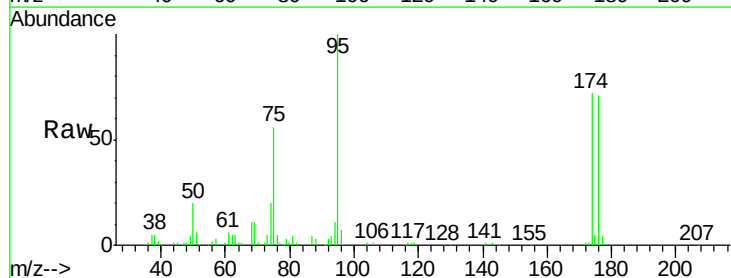
Instrument :
 MSVOA_N
 ClientSampleId :
 E-LGC-5

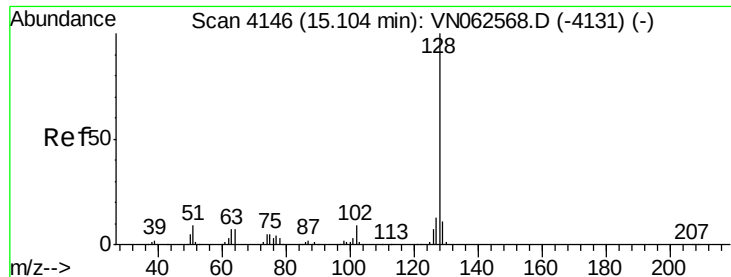
Tot Ion: 75 Resp: 59135
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 80.616 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN062737.D
 Acq: 3 Aug 2020 15:49

Tgt Ion: 75 Resp: 59135
 Ion Ratio Lower Upper
 75 100
 53 0.0 75.4 113.0#
 89 0.0 34.5 51.7#





#95

Naphthalene

Concen: 8.510 ug/l

RT: 15.11 min Scan# 4147

Delta R.T. 0.00 min

Lab File: VN062737.D

Acq: 3 Aug 2020 15:49

Instrument :

MSVOA_N

ClientSampleId :

E-LGC-5

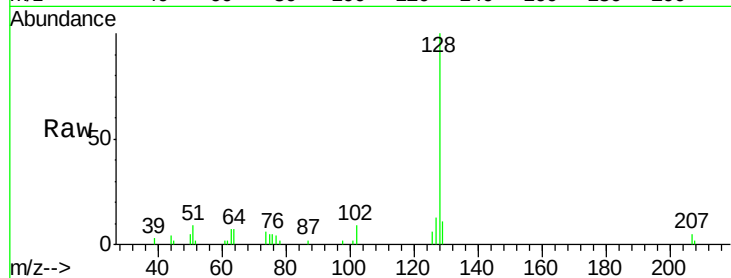
Tot Ion:128 Resp: 18320

Ion Ratio Lower Upper

128 100

127 11.9 10.4 15.6

129 10.6 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

