

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011623\Not Reviewed Data\
 Data File : VL040103.D
 Acq On : 16 Jan 2023 18:28
 Operator : SY/MD
 Sample : 01143-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 BH1N3DUP

Quant Time: Jan 17 05:58:11 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011623AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Jan 16 14:40:47 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

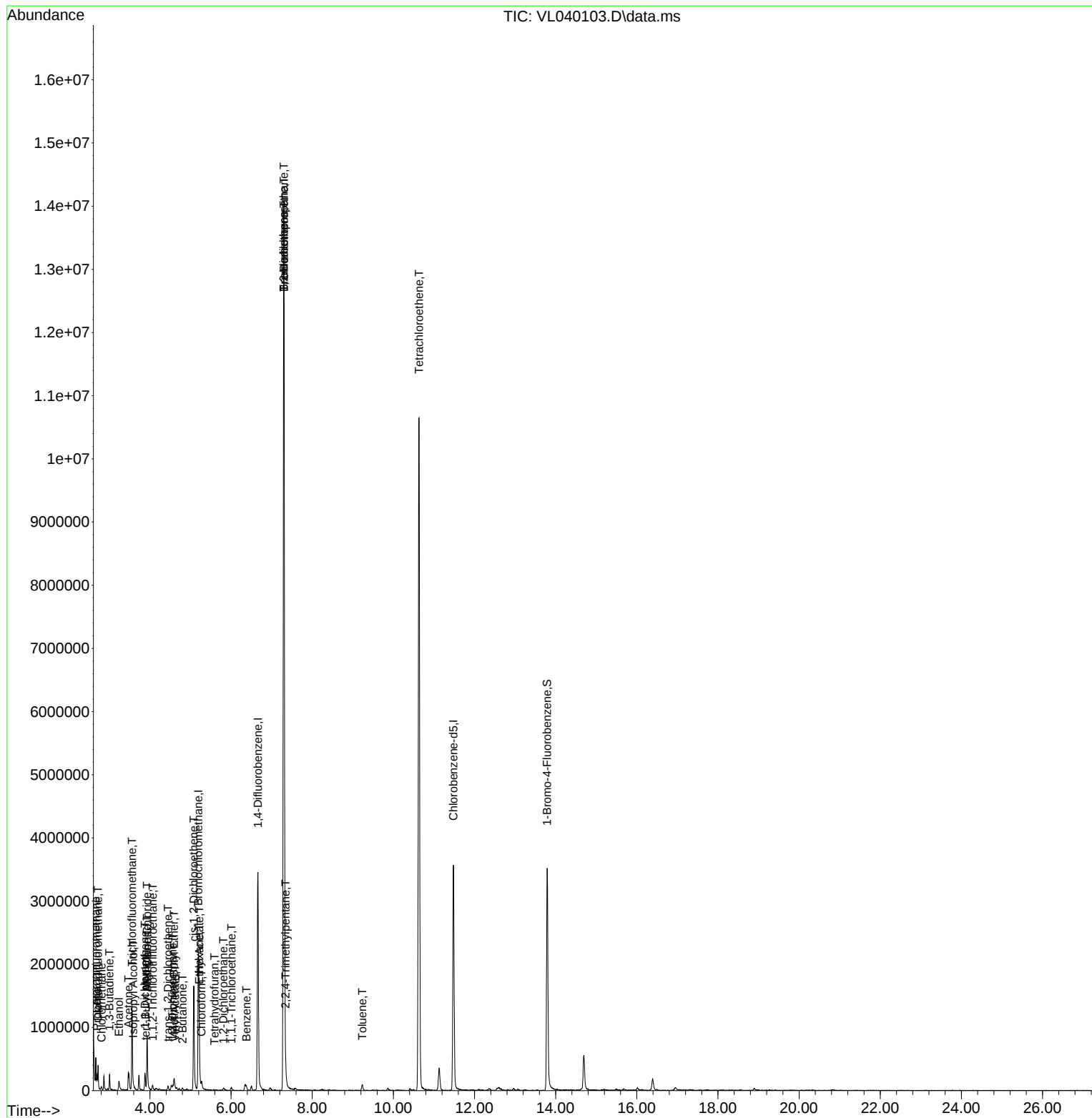
Internal Standards						
1) Bromochloromethane	5.195	49	1008960	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	2513194	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.481	117	2250002	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.789	95	1804697	9.651	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.722	85	251481	1.421	ppbv	97
3) Chlorodifluoromethane	2.664	51	416425	3.441	ppbv	97
4) Chloromethane	2.806	50	40586	0.543	ppbv	95
9) Propene	2.697	41	36637	0.729	ppbv #	82
11) Trichlorofluoromethane	3.562	101	847828	4.802	ppbv	94
12) 1,1,2-Trichlorotrifluo...	4.070	101	19784	0.149	ppbv #	66
13) Ethanol	3.237	45	154667	33.421	ppbv	96
15) Acetone	3.468	43	295837	2.445	ppbv #	86
16) 1,3-Butadiene	3.002	39	30318	0.537	ppbv #	14
17) tert-Butyl alcohol	3.896	59	12715	0.113	ppbv	97
18) 1,1-Dichloroethene	3.877	96	42902	0.744	ppbv	93
19) Isopropyl Alcohol	3.587	45	22121	0.374	ppbv #	1
20) Methylene Chloride	3.931	84	285143	5.341	ppbv	97
21) Allyl Chloride	3.931	41	7326	0.094	ppbv #	62
22) trans-1,2-Dichloroethene	4.446	96	21206	0.360	ppbv	94
23) Vinyl Acetate	4.623	43	16683	0.425	ppbv #	87
24) 1,1-Dichloroethane	4.562	63	43338	0.365	ppbv #	95
25) Ethyl Acetate	5.217	43	154066	0.723	ppbv #	82
26) Hexane	5.214	57	201167	2.156	ppbv #	38
28) Methyl tert-Butyl Ether	4.590	73	53937	0.514	ppbv #	53
29) Chloroform	5.272	83	61463	0.412	ppbv	85
31) cis-1,2-Dichloroethene	5.079	61	900640	9.972	ppbv	97
32) 1,1,1-Trichloroethane	6.008	97	21675	0.143	ppbv #	84
34) 2-Butanone	4.803	43	41923	0.353	ppbv	94
36) Benzene	6.378	78	45483	0.245	ppbv	97
37) 1,2-Dichloroethane	5.809	62	11358	0.095	ppbv #	87
38) Trichloroethene	7.301	130	4555426	43.157	ppbv	99
39) 1,2-Dichloropropane	7.301	63	22043	0.303	ppbv #	1
41) Tetrahydrofuran	5.590	42	2083	0.030	ppbv #	74
42) Bromodichloromethane	7.301	83	67520	0.418	ppbv #	95
44) 2,2,4-Trimethylpentane	7.343	57	10320	0.033	ppbv #	1
52) Tetrachloroethene	10.632	164	2638838	43.372	ppbv	99
53) Toluene	9.237	91	62096	0.313	ppbv	98

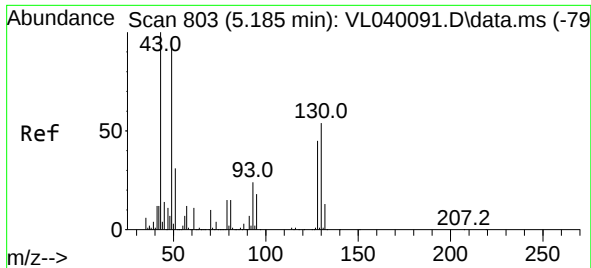
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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ClientSampleId :
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Quant Time: Jan 17 05:58:11 2023
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QLast Update : Mon Jan 16 14:40:47 2023
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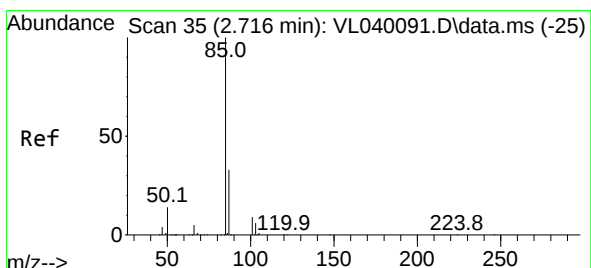
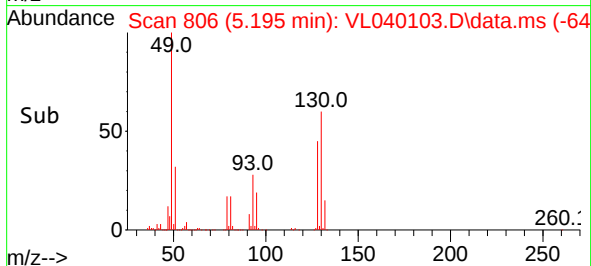
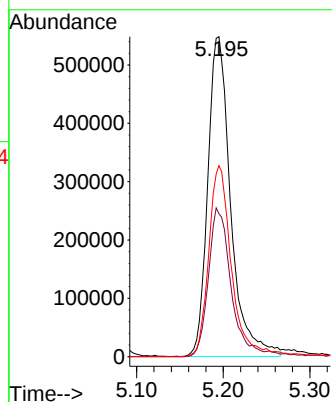
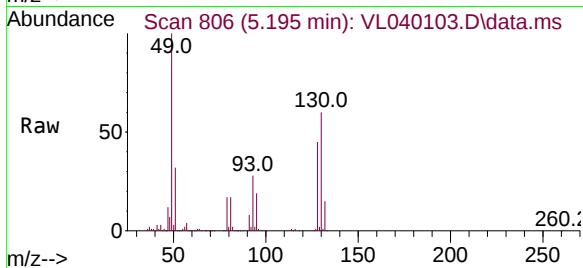




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.195 min Scan# 80
 Delta R.T. 0.010 min
 Lab File: VL040103.D
 Acq: 16 Jan 2023 18:28

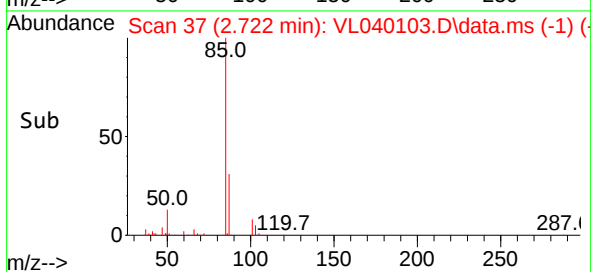
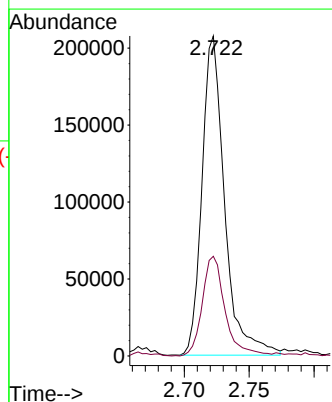
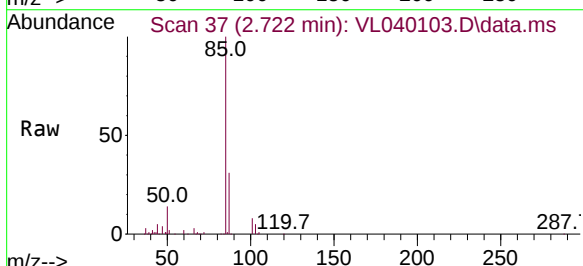
Instrument :
 MSVOA_L
 ClientSampleId :
 BH1N3DUP

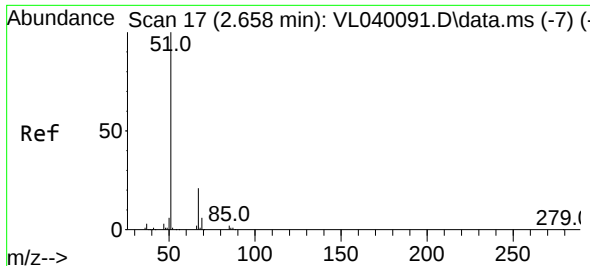
Tgt Ion: 49 Resp: 1008960
 Ion Ratio Lower Upper
 49 100
 128 47.2 23.6 71.0
 130 61.2 29.8 89.3



#2
 Dichlorodifluoromethane
 Concen: 1.421 ppbv
 RT: 2.722 min Scan# 37
 Delta R.T. 0.006 min
 Lab File: VL040103.D
 Acq: 16 Jan 2023 18:28

Tgt Ion: 85 Resp: 251481
 Ion Ratio Lower Upper
 85 100
 87 31.2 26.5 39.7

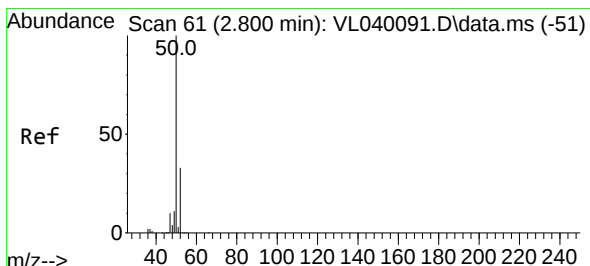
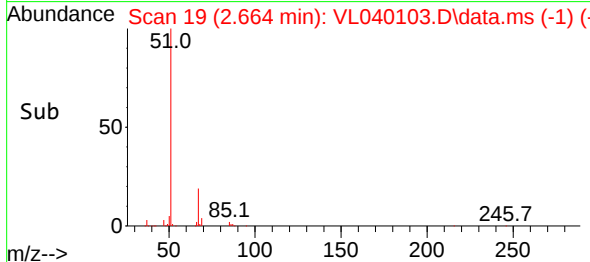
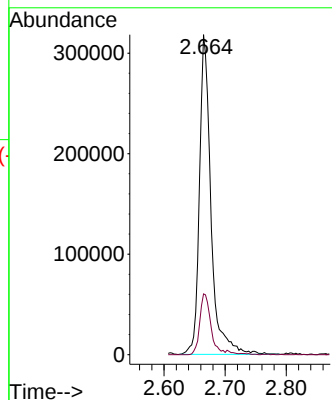
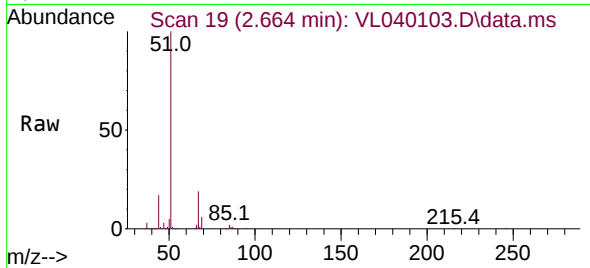




#3
Chlorodifluoromethane
Concen: 3.441 ppbv
RT: 2.664 min Scan# 19
Delta R.T. 0.006 min
Lab File: VL040103.D
Acq: 16 Jan 2023 18:28

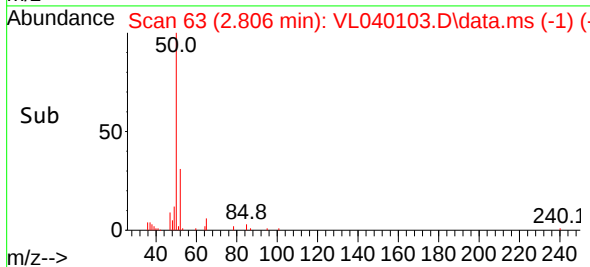
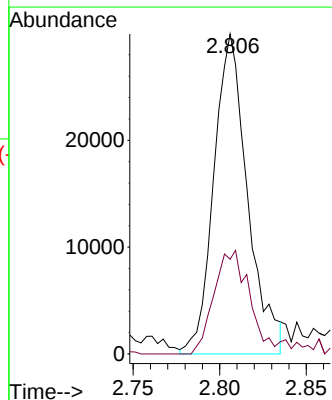
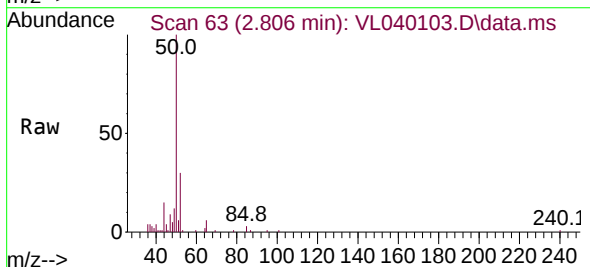
Instrument :
MSVOA_L
ClientSampleId :
BH1N3DUP

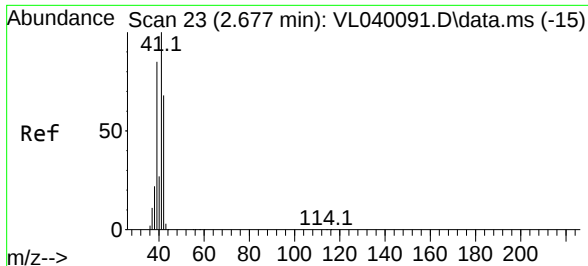
Tgt Ion: 51 Resp: 416425
Ion Ratio Lower Upper
51 100
67 19.1 16.4 24.6



#4
Chloromethane
Concen: 0.543 ppbv
RT: 2.806 min Scan# 63
Delta R.T. 0.006 min
Lab File: VL040103.D
Acq: 16 Jan 2023 18:28

Tgt Ion: 50 Resp: 40586
Ion Ratio Lower Upper
50 100
52 30.6 26.5 39.7





#9

Propene

Concen: 0.729 ppbv

RT: 2.697 min Scan# 29

Delta R.T. 0.019 min

Lab File: VL040103.D

Acq: 16 Jan 2023 18:28

Instrument :

MSVOA_L

ClientSampleId :

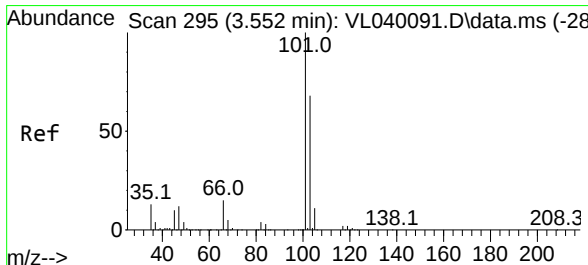
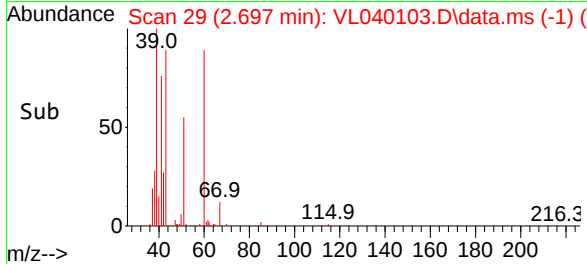
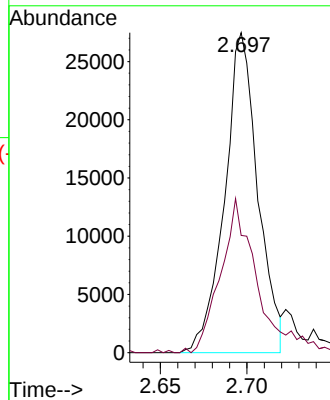
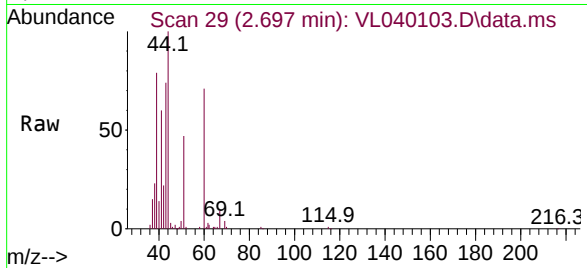
BH1N3DUP

Tgt Ion: 41 Resp: 36637

Ion Ratio Lower Upper

41 100

42 54.6 55.6 83.4#



#11

Trichlorofluoromethane

Concen: 4.802 ppbv

RT: 3.562 min Scan# 298

Delta R.T. 0.010 min

Lab File: VL040103.D

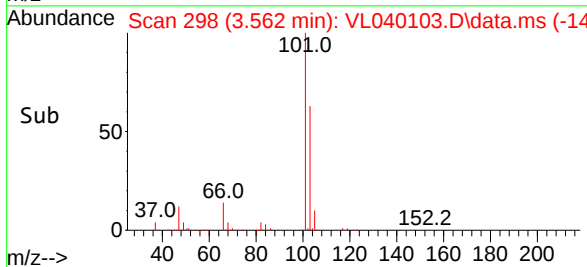
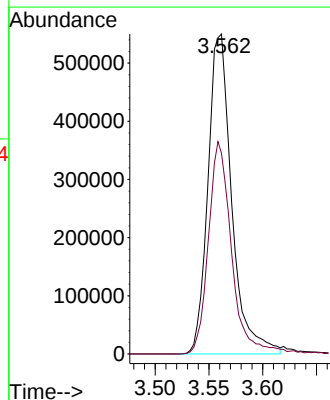
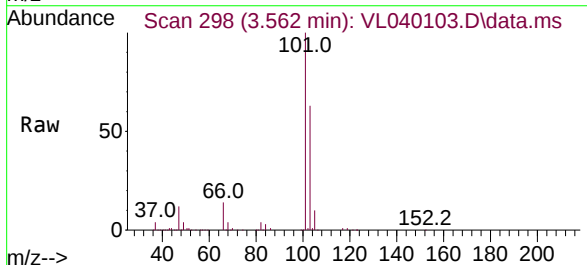
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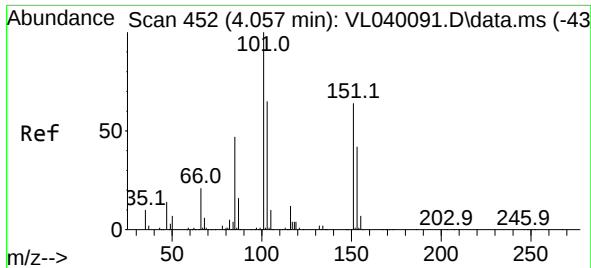
Tgt Ion: 101 Resp: 847828

Ion Ratio Lower Upper

101 100

103 62.8 54.0 81.0

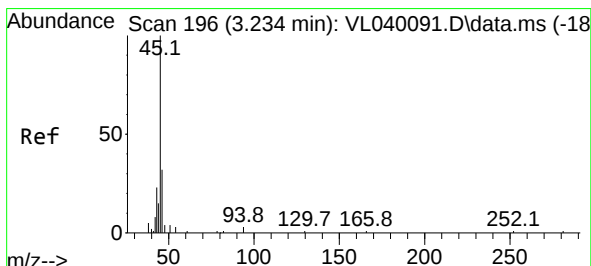
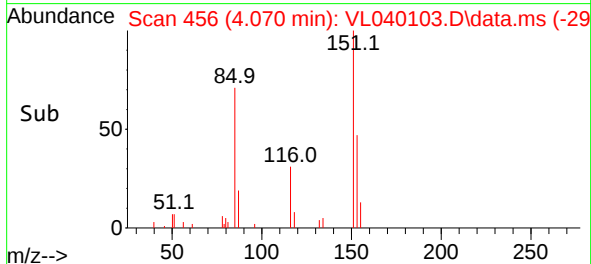
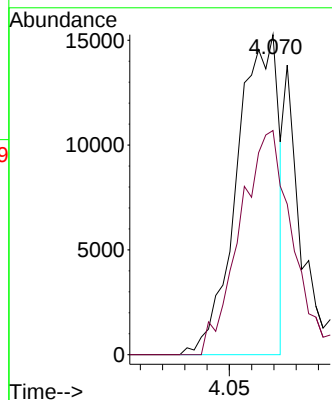
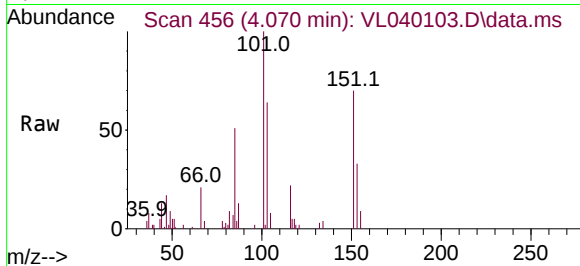




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.149 ppbv
RT: 4.070 min Scan# 41
Delta R.T. 0.013 min
Lab File: VL040103.D
Acq: 16 Jan 2023 18:28

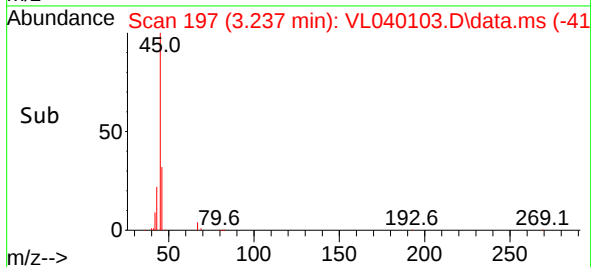
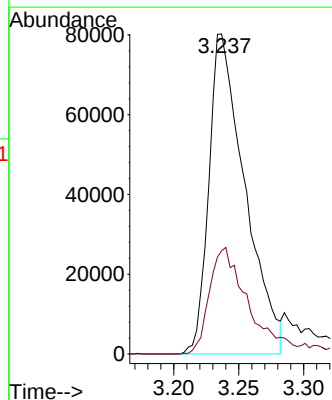
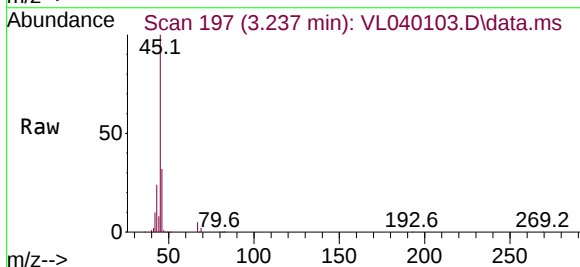
Instrument :
MSVOA_1
ClientSampleId :
BH1N3DUP

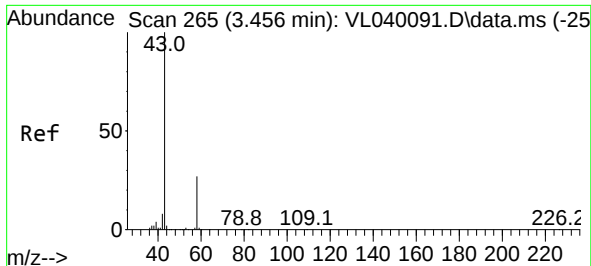
Tgt Ion:101 Resp: 19784
Ion Ratio Lower Upper
101 100
151 93.8 53.2 79.8#



#13
Ethanol
Concen: 33.421 ppbv
RT: 3.237 min Scan# 197
Delta R.T. 0.003 min
Lab File: VL040103.D
Acq: 16 Jan 2023 18:28

Tgt Ion: 45 Resp: 154667
Ion Ratio Lower Upper
45 100
46 39.5 14.8 59.2

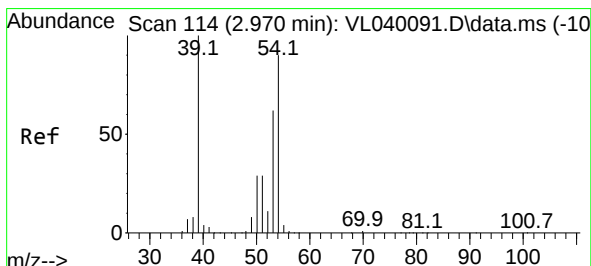
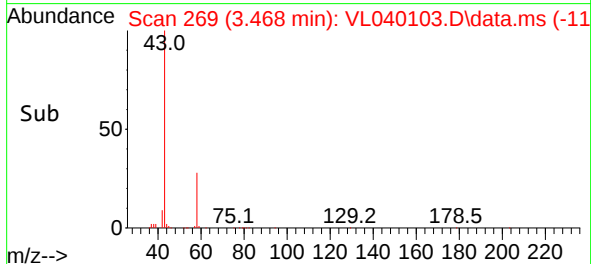
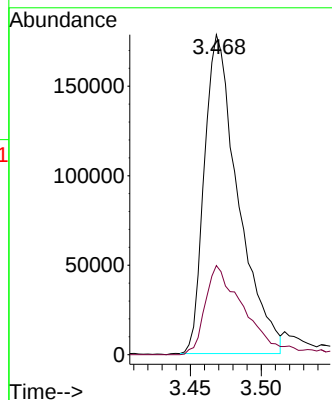
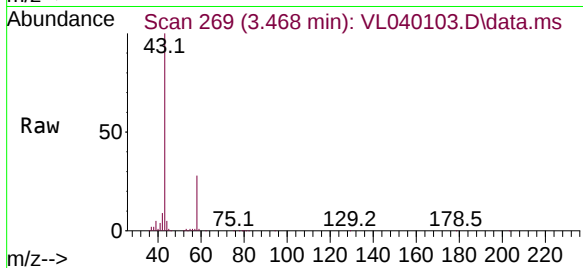




#15
Acetone
Concen: 2.445 ppbv
RT: 3.468 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL040103.D
Acq: 16 Jan 2023 18:28

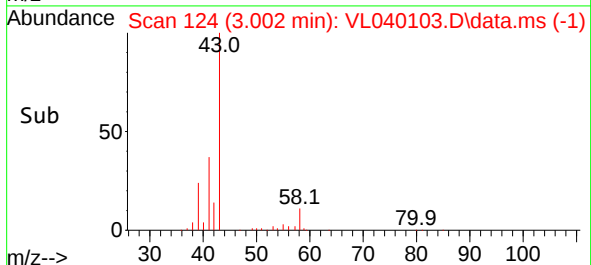
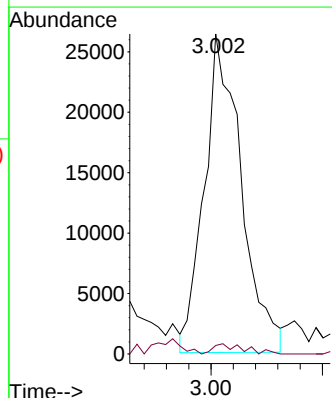
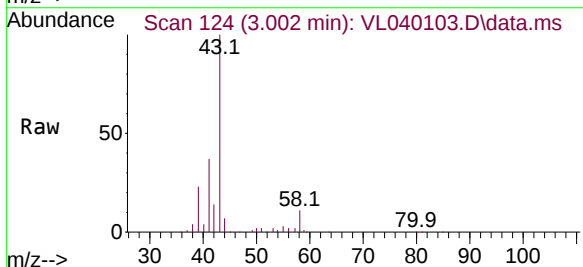
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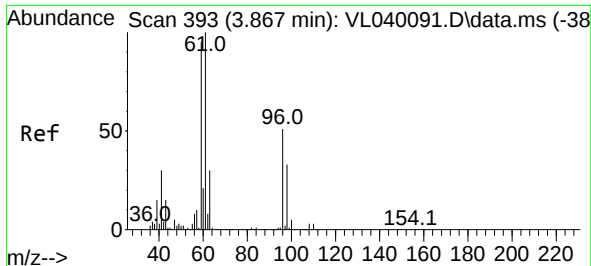
Tgt Ion: 43 Resp: 295837
Ion Ratio Lower Upper
43 100
58 34.5 21.8 32.8#



#16
1,3-Butadiene
Concen: 0.537 ppbv
RT: 3.002 min Scan# 124
Delta R.T. 0.032 min
Lab File: VL040103.D
Acq: 16 Jan 2023 18:28

Tgt Ion: 39 Resp: 30318
Ion Ratio Lower Upper
39 100
54 6.6 67.9 101.9#





#17

tert-Butyl alcohol

Concen: 0.113 ppbv

RT: 3.896 min Scan# 402

Delta R.T. 0.029 min

Lab File: VL040103.D

Acq: 16 Jan 2023 18:28

Instrument :

MSVOA_L

ClientSampleId :

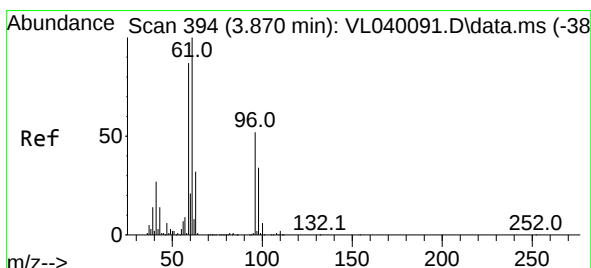
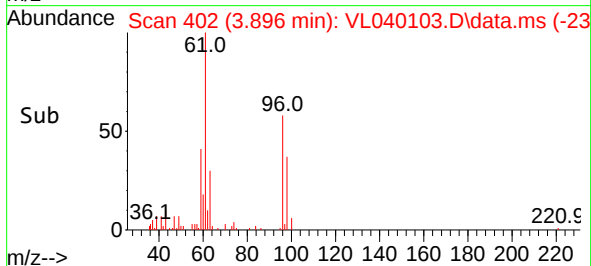
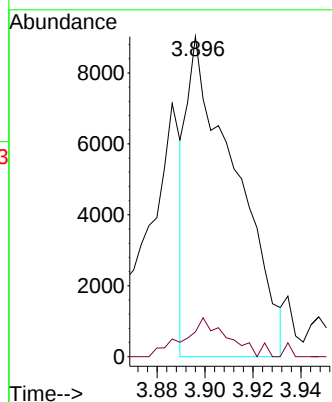
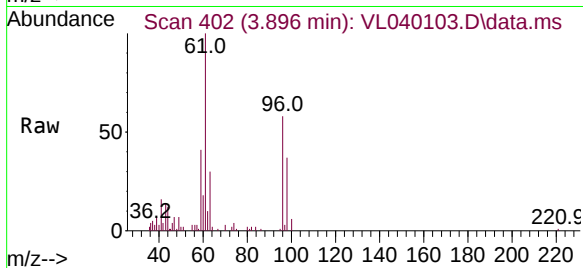
BH1N3DUP

Tgt Ion: 59 Resp: 12715

Ion Ratio Lower Upper

59 100

57 11.8 8.5 12.7



#18

1,1-Dichloroethene

Concen: 0.744 ppbv

RT: 3.877 min Scan# 396

Delta R.T. 0.006 min

Lab File: VL040103.D

Acq: 16 Jan 2023 18:28

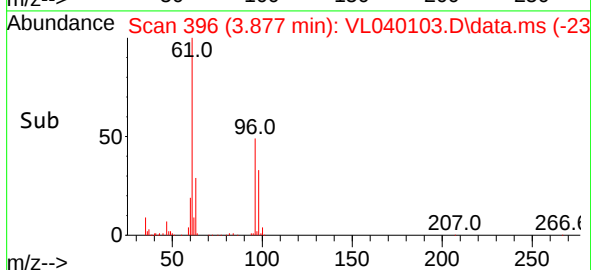
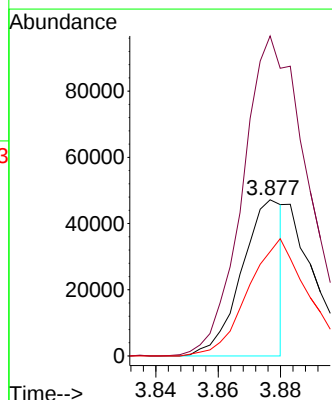
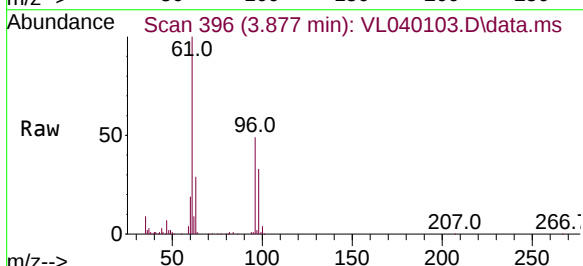
Tgt Ion: 96 Resp: 42902

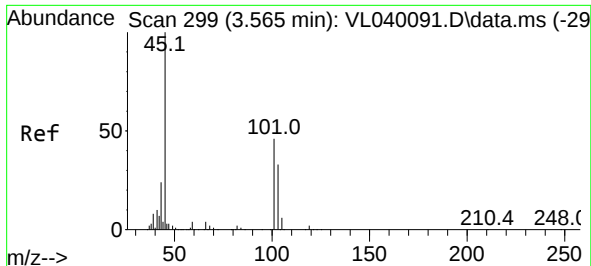
Ion Ratio Lower Upper

96 100

61 204.2 153.0 229.4

98 66.8 52.7 79.1

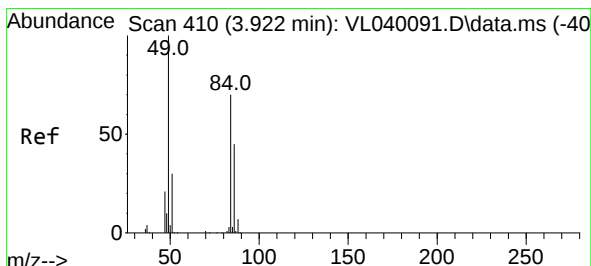
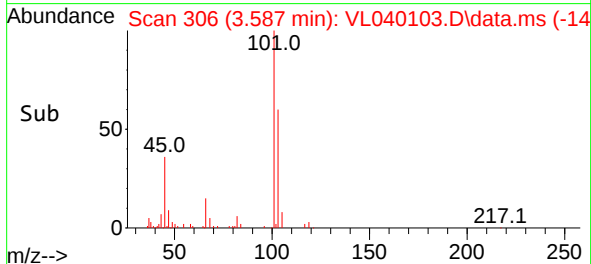
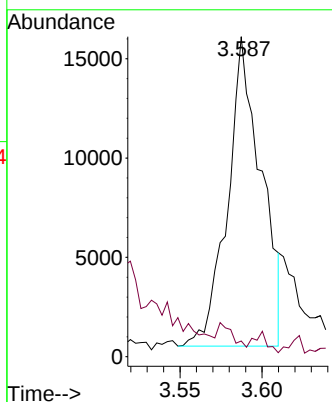
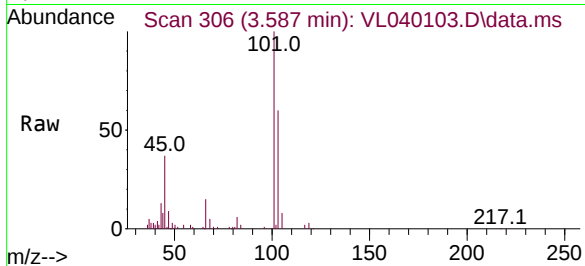




#19
Isopropyl Alcohol
Concen: 0.374 ppbv
RT: 3.587 min Scan# 306
Delta R.T. 0.022 min
Lab File: VL040103.D
Acq: 16 Jan 2023 18:28

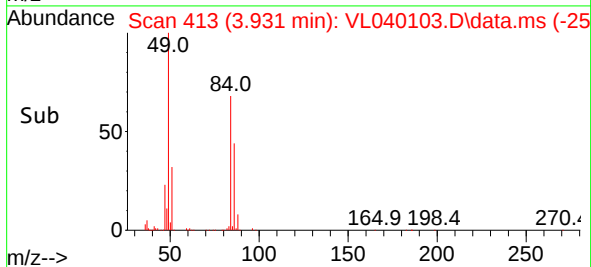
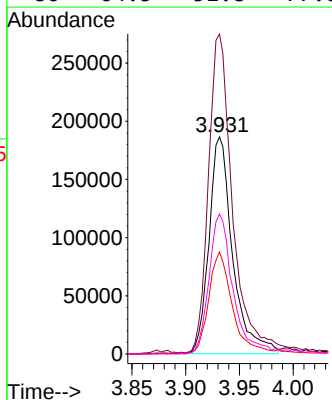
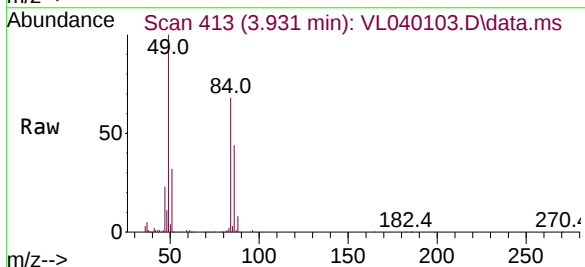
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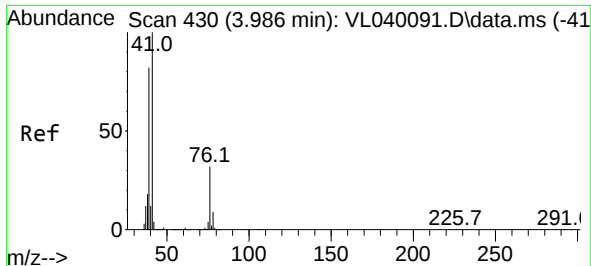
Tgt Ion: 45 Resp: 22121
Ion Ratio Lower Upper
45 100
58 465.5 2.6 4.0#



#20
Methylene Chloride
Concen: 5.341 ppbv
RT: 3.931 min Scan# 413
Delta R.T. 0.010 min
Lab File: VL040103.D
Acq: 16 Jan 2023 18:28

Tgt Ion: 84 Resp: 285143
Ion Ratio Lower Upper
84 100
49 147.1 114.6 171.8
51 46.9 34.3 51.5
86 64.5 51.8 77.8

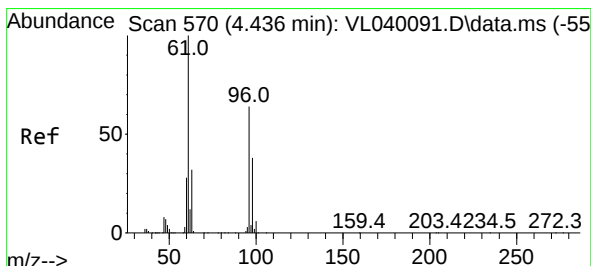
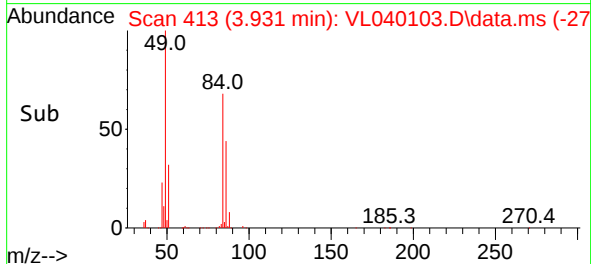
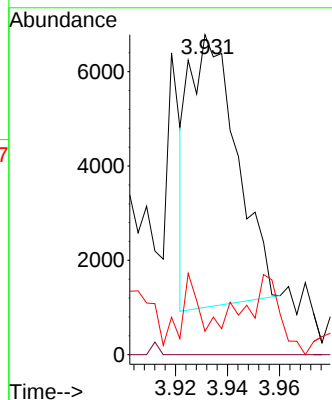
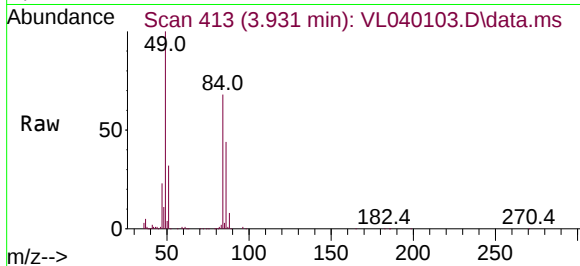




#21
 Allyl Chloride
 Concen: 0.094 ppbv
 RT: 3.931 min Scan# 41
 Delta R.T. -0.055 min
 Lab File: VL040103.D
 Acq: 16 Jan 2023 18:28

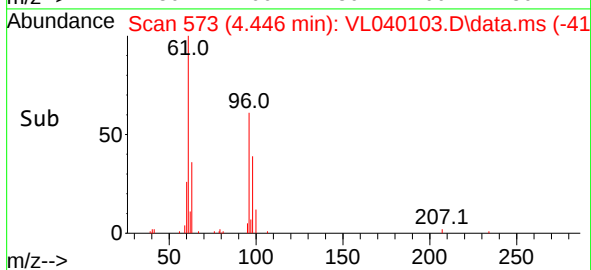
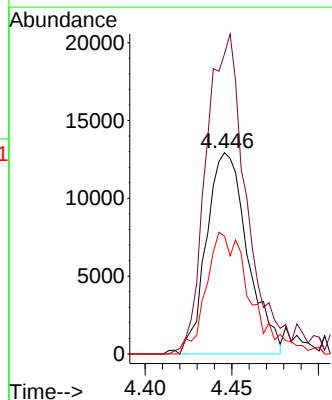
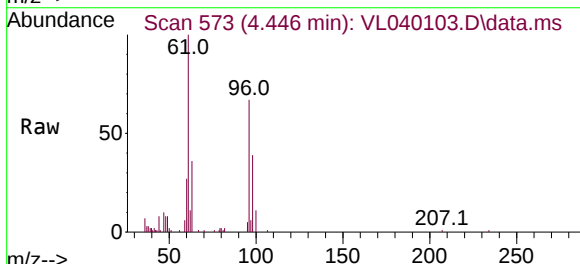
Instrument :
 MSVOA_L
 ClientSampleId :
 BH1N3DUP

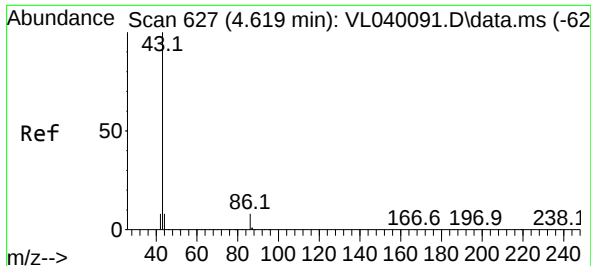
Tgt Ion: 41 Resp: 7326
 Ion Ratio Lower Upper
 41 100
 76 0.0 25.9 38.9#
 39 56.5 66.8 100.2#



#22
 trans-1,2-Dichloroethene
 Concen: 0.360 ppbv
 RT: 4.446 min Scan# 573
 Delta R.T. 0.010 min
 Lab File: VL040103.D
 Acq: 16 Jan 2023 18:28

Tgt Ion: 96 Resp: 21206
 Ion Ratio Lower Upper
 96 100
 61 146.4 125.8 188.8
 98 58.5 47.4 71.2

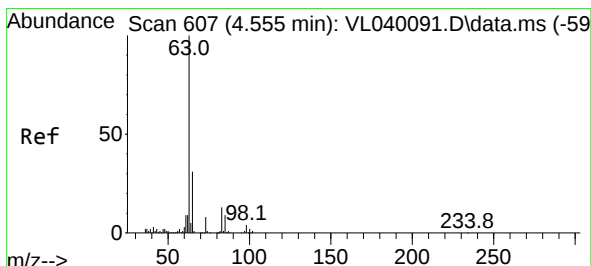
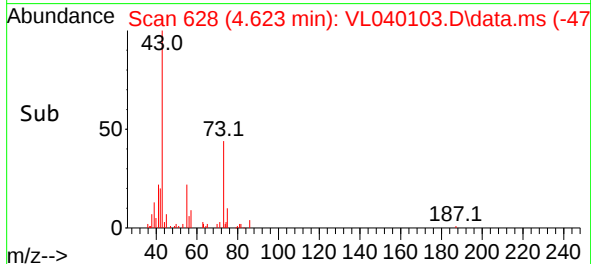
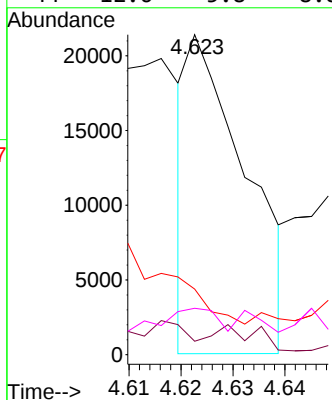
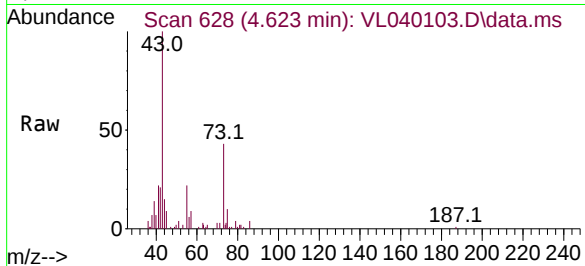




#23
 Vinyl Acetate
 Concen: 0.425 ppbv
 RT: 4.623 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL040103.D
 Acq: 16 Jan 2023 18:28

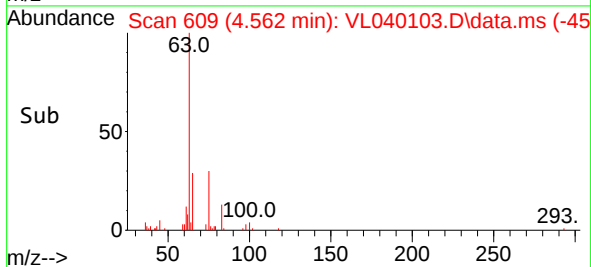
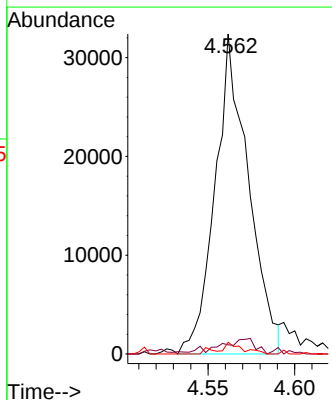
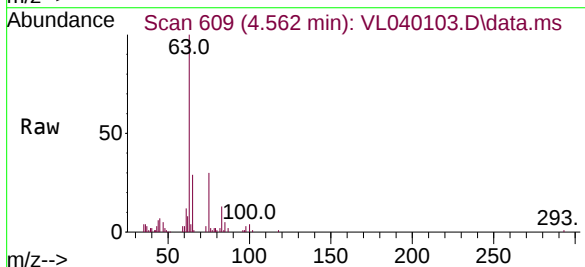
Instrument :
 MSVOA_1
 ClientSampleId :
 BH1N3DUP

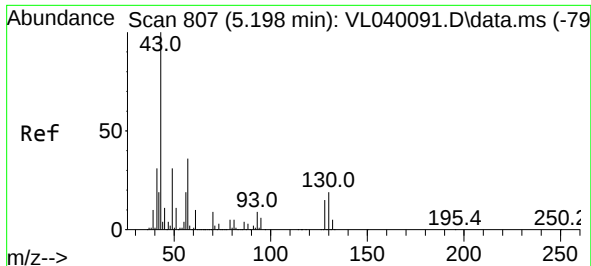
Tgt Ion:	43	Resp:	16683
Ion	Ratio	Lower	Upper
43	100		
86	4.6	5.6	8.4#
42	15.6	7.7	11.5#
44	12.6	5.8	8.8#



#24
 1,1-Dichloroethane
 Concen: 0.365 ppbv
 RT: 4.562 min Scan# 609
 Delta R.T. 0.006 min
 Lab File: VL040103.D
 Acq: 16 Jan 2023 18:28

Tgt Ion:	63	Resp:	43338
Ion	Ratio	Lower	Upper
63	100		
98	2.1	2.0	5.8
100	3.7	1.1	3.5#

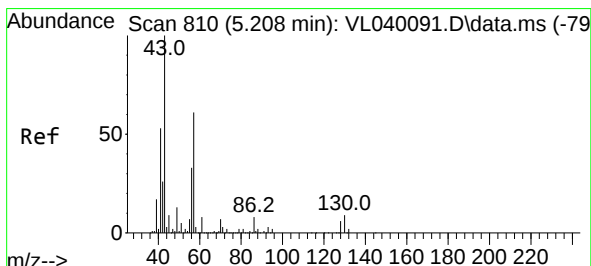
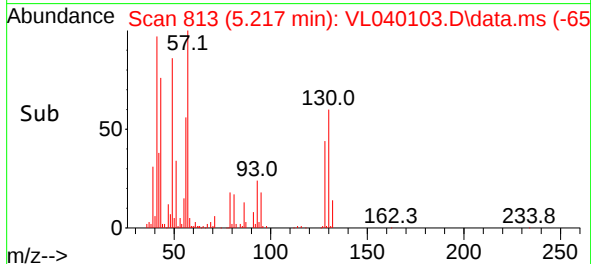
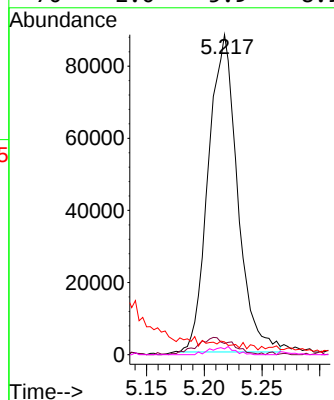
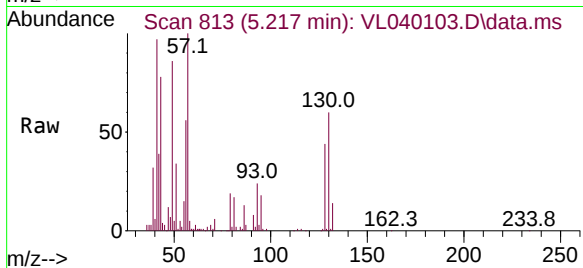




#25
Ethyl Acetate
Concen: 0.723 ppbv
RT: 5.217 min Scan# 811
Delta R.T. 0.019 min
Lab File: VL040103.D
Acq: 16 Jan 2023 18:28

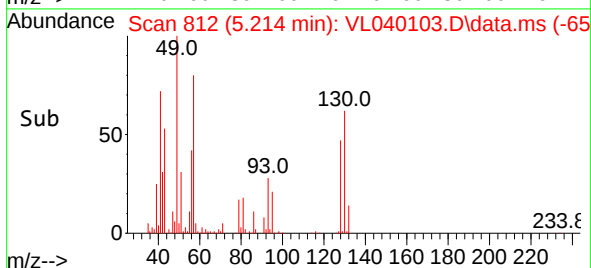
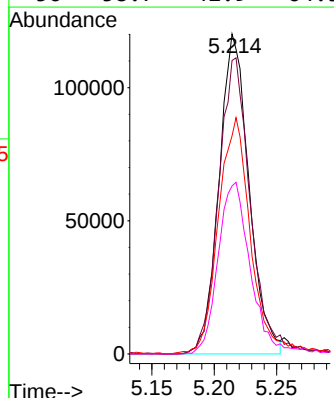
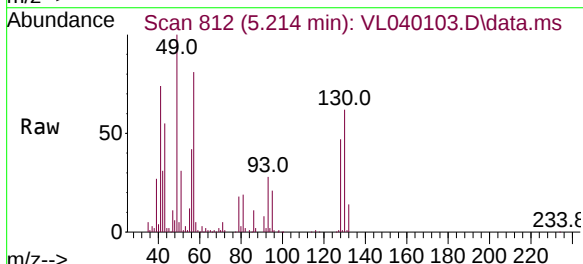
Instrument :
MSVOA_L
ClientSampleId :
BH1N3DUP

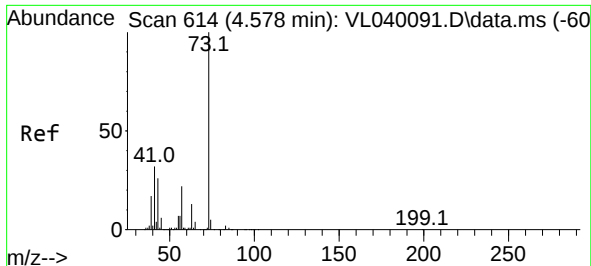
Tgt Ion: 43 Resp: 154066
Ion Ratio Lower Upper
43 100
45 7.0 8.5 12.7#
61 0.0 8.4 12.6#
70 2.0 5.9 8.9#



#26
Hexane
Concen: 2.156 ppbv
RT: 5.214 min Scan# 812
Delta R.T. 0.006 min
Lab File: VL040103.D
Acq: 16 Jan 2023 18:28

Tgt Ion: 57 Resp: 201167
Ion Ratio Lower Upper
57 100
41 98.9 72.2 108.4
43 80.9 192.1 288.1#
56 58.7 42.9 64.3

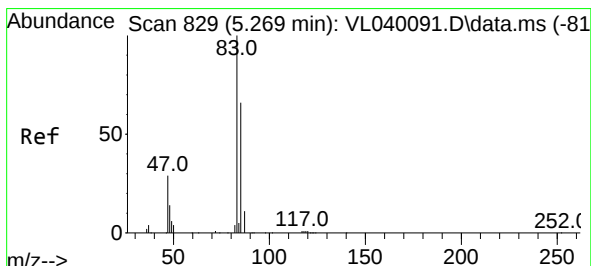
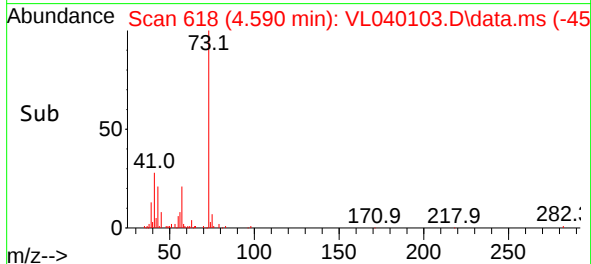
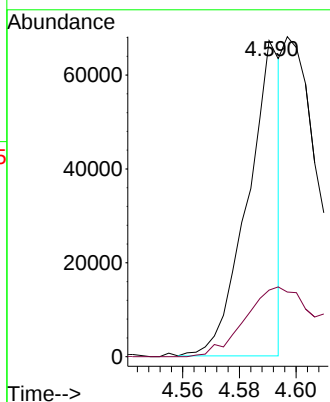
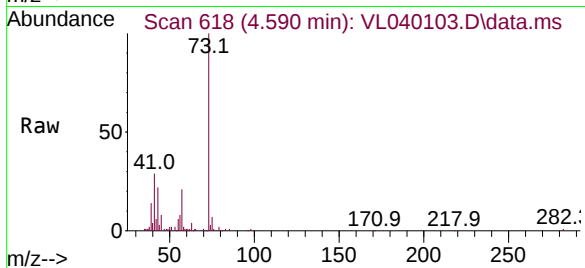




#28
Methyl tert-Butyl Ether
Concen: 0.514 ppbv
RT: 4.590 min Scan# 614
Delta R.T. 0.013 min
Lab File: VL040103.D
Acq: 16 Jan 2023 18:28

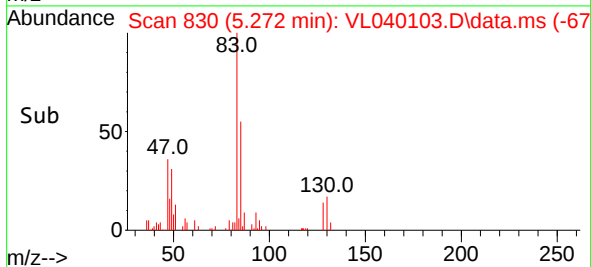
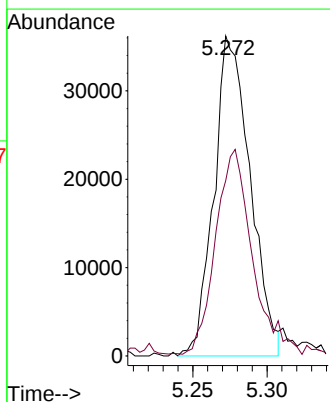
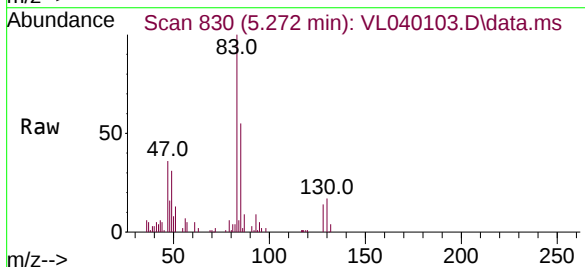
Instrument :
MSVOA_L
ClientSampleId :
BH1N3DUP

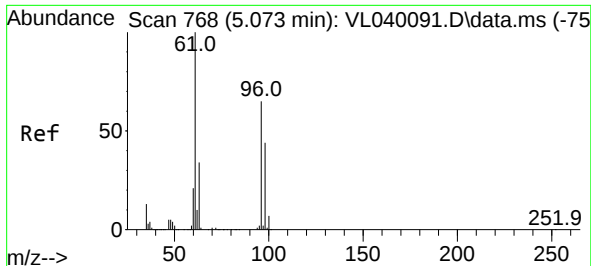
Tgt Ion: 73 Resp: 53937
Ion Ratio Lower Upper
73 100
57 0.0 18.3 27.5#



#29
Chloroform
Concen: 0.412 ppbv
RT: 5.272 min Scan# 830
Delta R.T. 0.003 min
Lab File: VL040103.D
Acq: 16 Jan 2023 18:28

Tgt Ion: 83 Resp: 61463
Ion Ratio Lower Upper
83 100
85 54.1 53.1 79.7

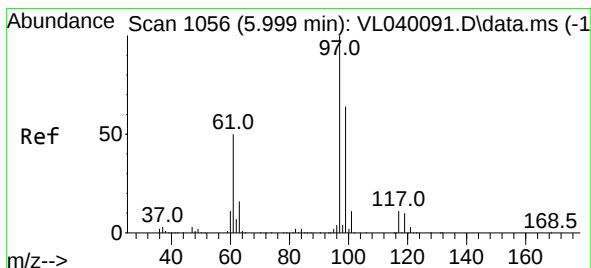
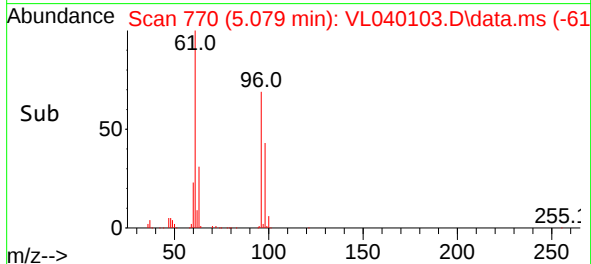
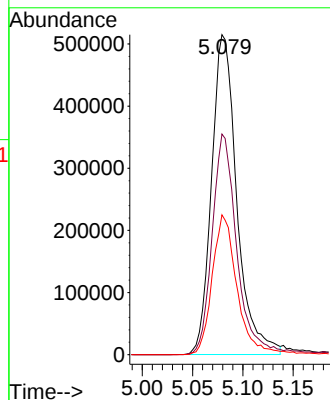
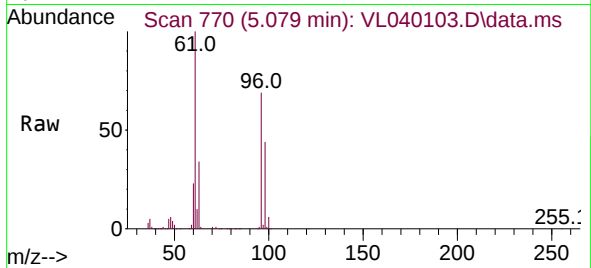




#31
 cis-1,2-Dichloroethene
 Concen: 9.972 ppbv
 RT: 5.079 min Scan# 71
 Delta R.T. 0.006 min
 Lab File: VL040103.D
 Acq: 16 Jan 2023 18:28

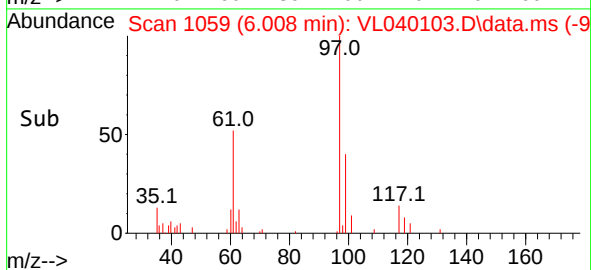
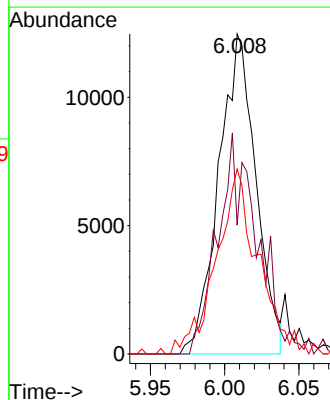
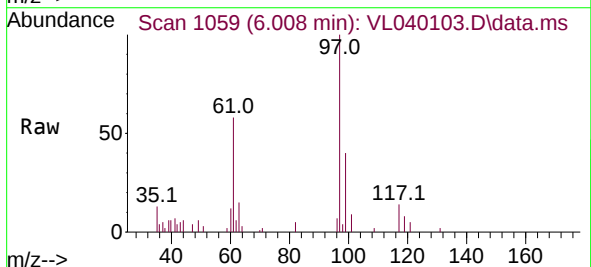
Instrument :
 MSVOA_L
 ClientSampleId :
 BH1N3DUP

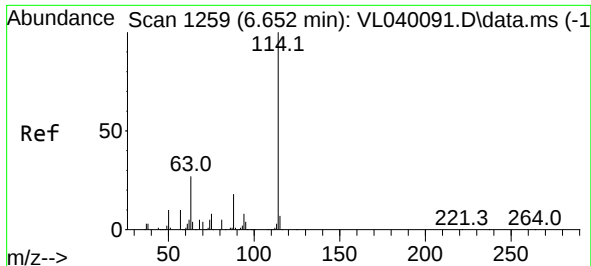
Tgt Ion: 61 Resp: 900640
 Ion Ratio Lower Upper
 61 100
 96 68.9 52.0 78.0
 98 43.7 35.3 52.9



#32
 1,1,1-Trichloroethane
 Concen: 0.143 ppbv
 RT: 6.008 min Scan# 1059
 Delta R.T. 0.010 min
 Lab File: VL040103.D
 Acq: 16 Jan 2023 18:28

Tgt Ion: 97 Resp: 21675
 Ion Ratio Lower Upper
 97 100
 99 74.3 51.8 77.6
 61 65.2 40.4 60.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.661 min Scan# 11

Delta R.T. 0.010 min

Lab File: VL040103.D

Acq: 16 Jan 2023 18:28

Instrument :

MSVOA_L

ClientSampleId :

BH1N3DUP

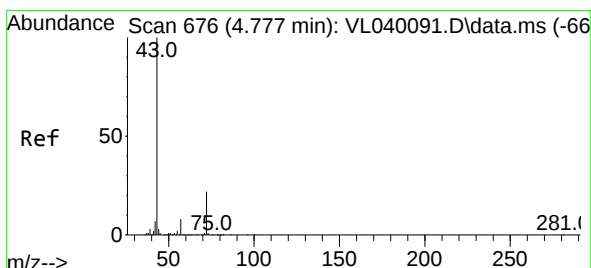
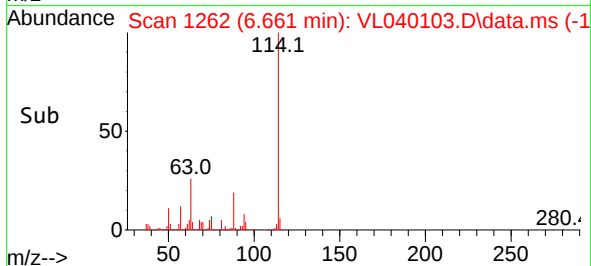
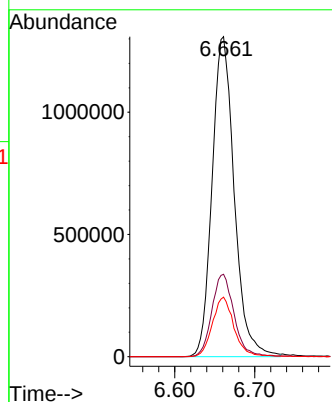
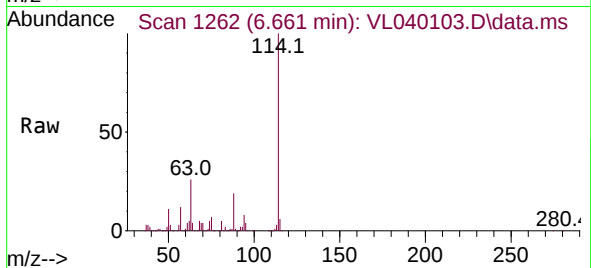
Tgt Ion:114 Resp: 2513194

Ion Ratio Lower Upper

114 100

63 26.0 21.8 32.8

88 18.3 14.8 22.2



#34

2-Butanone

Concen: 0.353 ppbv

RT: 4.803 min Scan# 684

Delta R.T. 0.026 min

Lab File: VL040103.D

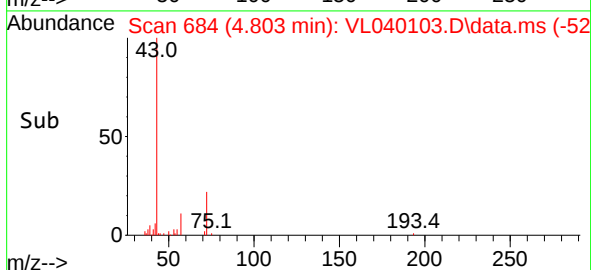
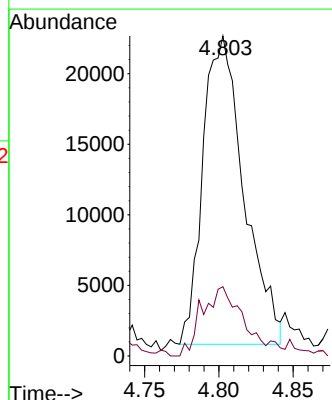
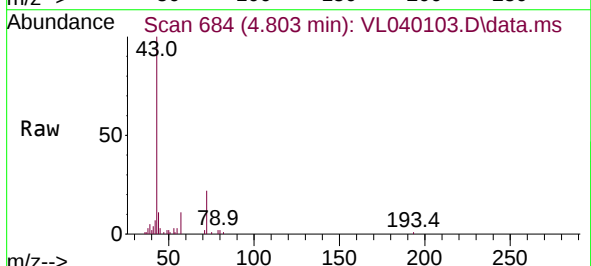
Acq: 16 Jan 2023 18:28

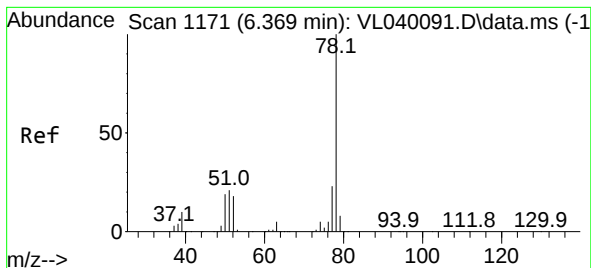
Tgt Ion: 43 Resp: 41923

Ion Ratio Lower Upper

43 100

72 26.0 18.4 27.6





#36

Benzene

Concen: 0.245 ppbv

RT: 6.378 min Scan# 1171

Delta R.T. 0.010 min

Lab File: VL040103.D

Acq: 16 Jan 2023 18:28

Instrument :

MSVOA_L

ClientSampleId :

BH1N3DUP

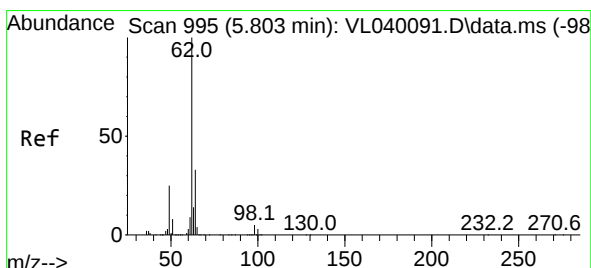
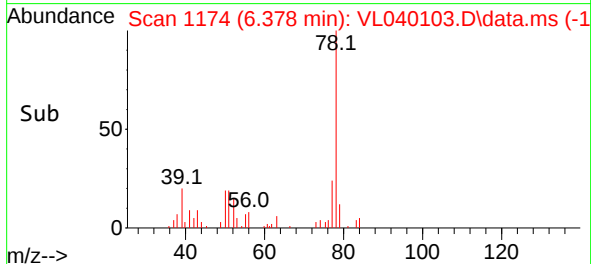
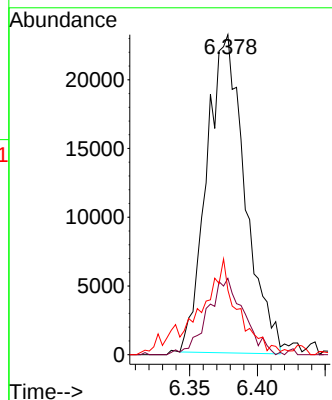
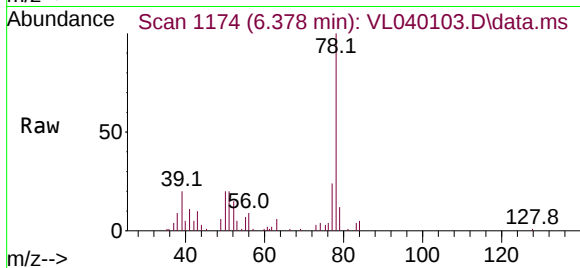
Tgt Ion: 78 Resp: 45483

Ion Ratio Lower Upper

78 100

77 23.3 18.1 27.1

50 16.9 15.6 23.4



#37

1,2-Dichloroethane

Concen: 0.095 ppbv

RT: 5.809 min Scan# 997

Delta R.T. 0.006 min

Lab File: VL040103.D

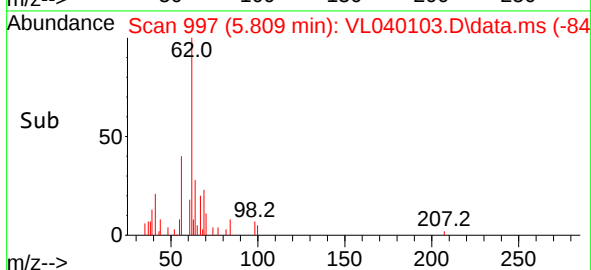
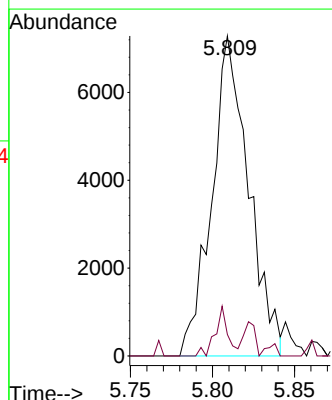
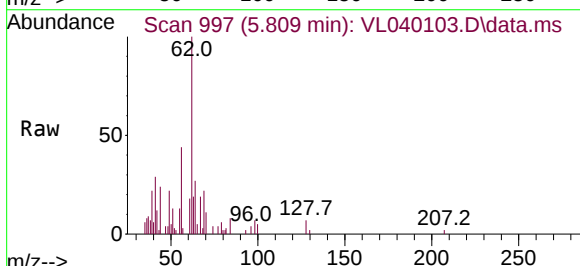
Acq: 16 Jan 2023 18:28

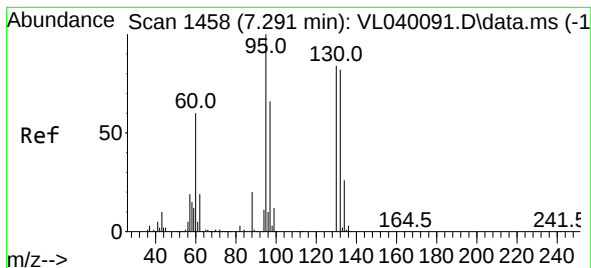
Tgt Ion: 62 Resp: 11358

Ion Ratio Lower Upper

62 100

98 9.7 4.4 6.6#





#38

Trichloroethene

Concen: 43.157 ppbv

RT: 7.301 min Scan# 1458

Delta R.T. 0.010 min

Lab File: VL040103.D

Acq: 16 Jan 2023 18:28

Instrument :

MSVOA_L

ClientSampleId :

BH1N3DUP

Tgt Ion:130 Resp: 4555426

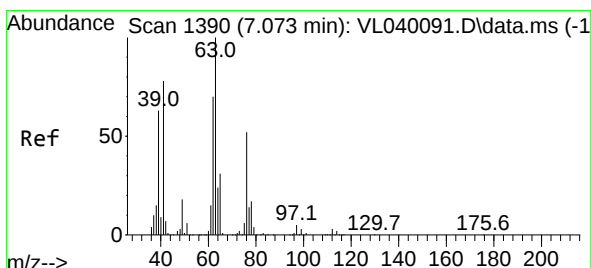
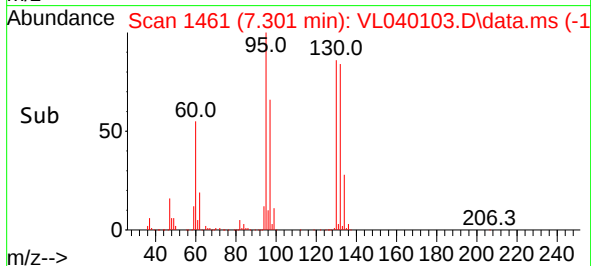
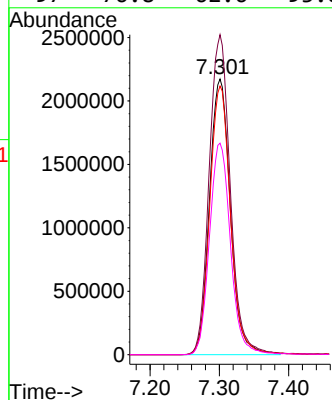
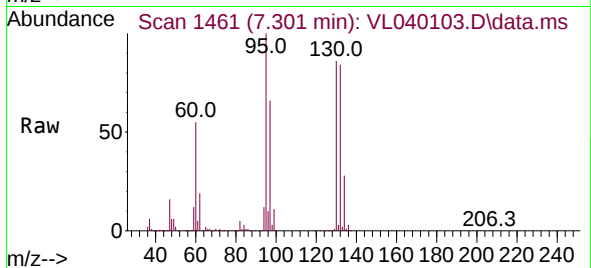
Ion Ratio Lower Upper

130 100

95 116.1 95.0 142.6

132 97.5 77.9 116.9

97 76.8 62.6 93.8



#39

1,2-Dichloropropane

Concen: 0.303 ppbv

RT: 7.301 min Scan# 1461

Delta R.T. 0.228 min

Lab File: VL040103.D

Acq: 16 Jan 2023 18:28

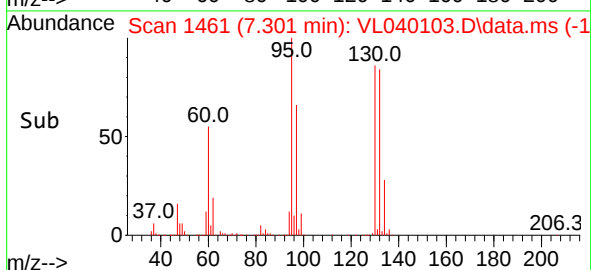
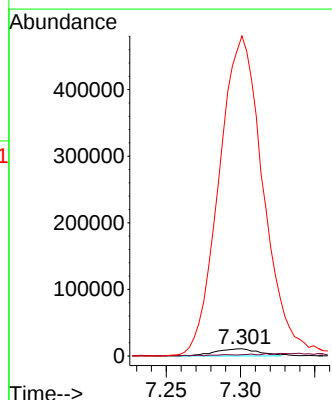
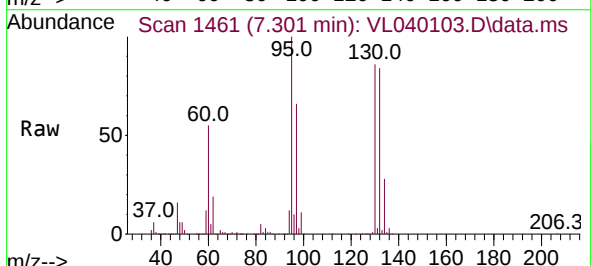
Tgt Ion: 63 Resp: 22043

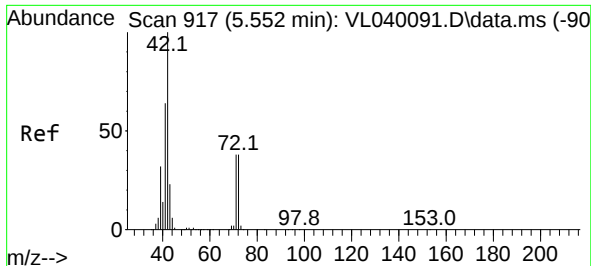
Ion Ratio Lower Upper

63 100

41 25.8 62.2 93.4#

62 4417.2 55.8 83.8#

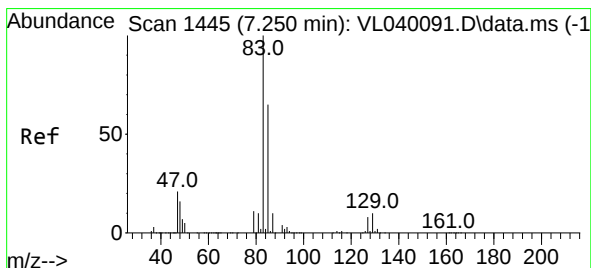
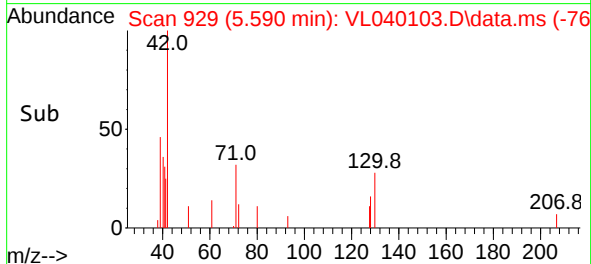
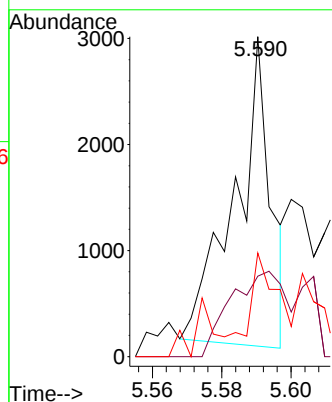
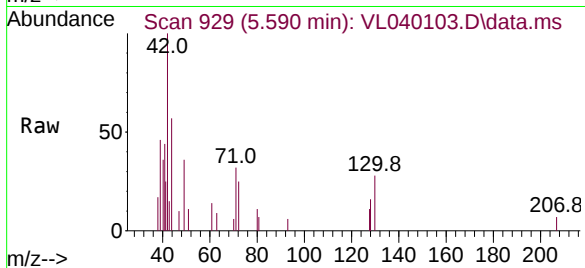




#41
Tetrahydrofuran
Concen: 0.030 ppbv
RT: 5.590 min Scan# 917
Delta R.T. 0.038 min
Lab File: VL040103.D
Acq: 16 Jan 2023 18:28

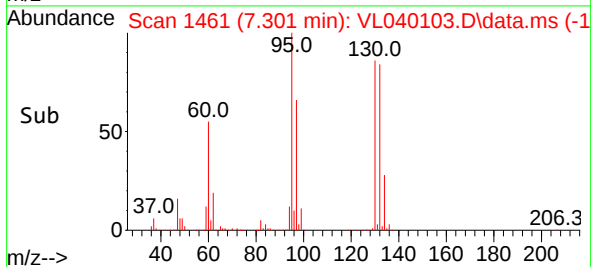
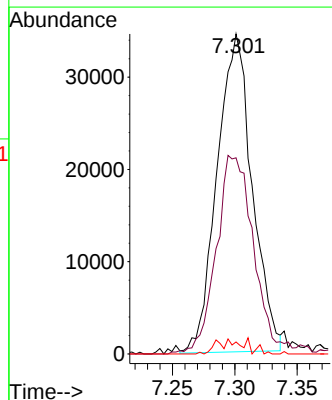
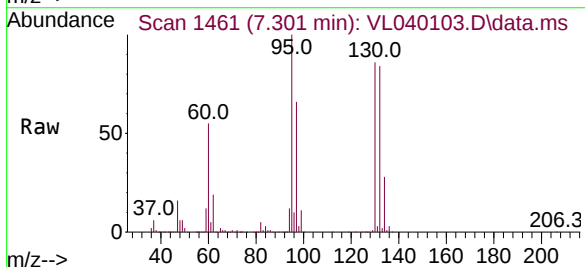
Instrument :
MSVOA_L
ClientSampleId :
BH1N3DUP

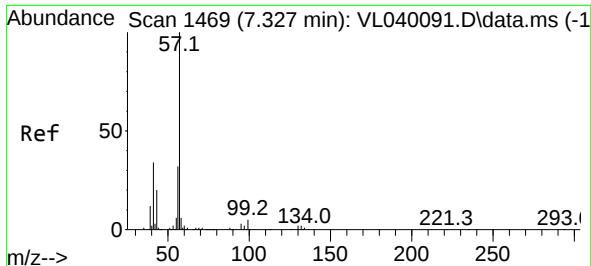
Tgt Ion: 42 Resp: 2083
Ion Ratio Lower Upper
42 100
72 55.9 31.9 47.9#
71 54.7 31.4 47.2#



#42
Bromodichloromethane
Concen: 0.418 ppbv
RT: 7.301 min Scan# 1461
Delta R.T. 0.051 min
Lab File: VL040103.D
Acq: 16 Jan 2023 18:28

Tgt Ion: 83 Resp: 67520
Ion Ratio Lower Upper
83 100
85 60.9 51.7 77.5
127 3.8 6.2 9.2#





#44

2,2,4-Trimethylpentane

Concen: 0.033 ppbv

RT: 7.343 min Scan# 1469

Delta R.T. 0.016 min

Lab File: VL040103.D

Acq: 16 Jan 2023 18:28

Instrument :

MSVOA_L

ClientSampleId :

BH1N3DUP

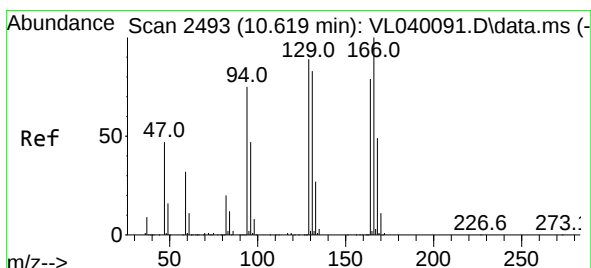
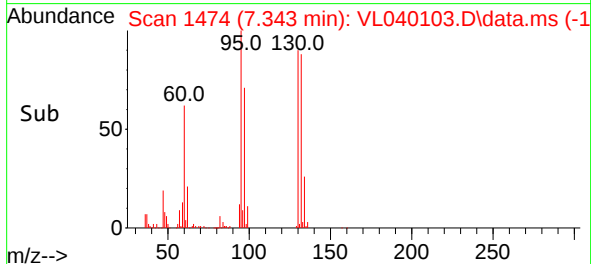
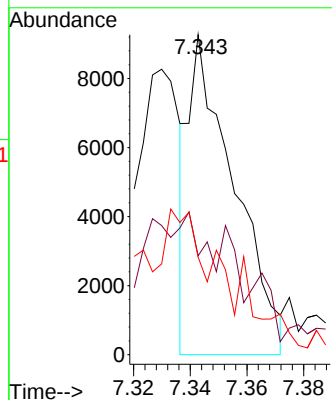
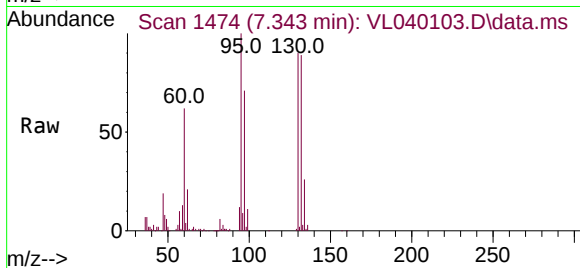
Tgt Ion: 57 Resp: 10320

Ion Ratio Lower Upper

57 100

41 157.6 27.1 40.7#

56 0.0 25.0 37.4#



#52

Tetrachloroethene

Concen: 43.372 ppbv

RT: 10.632 min Scan# 2497

Delta R.T. 0.013 min

Lab File: VL040103.D

Acq: 16 Jan 2023 18:28

Tgt Ion: 164 Resp: 2638838

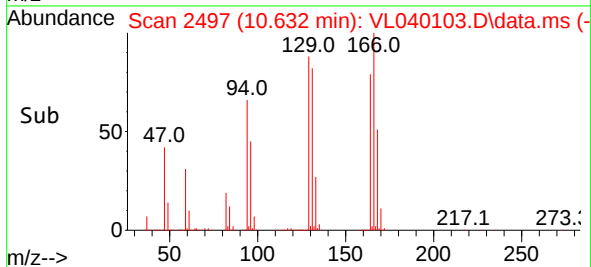
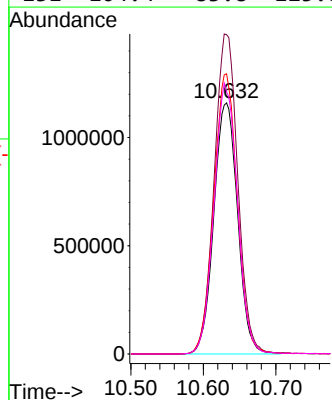
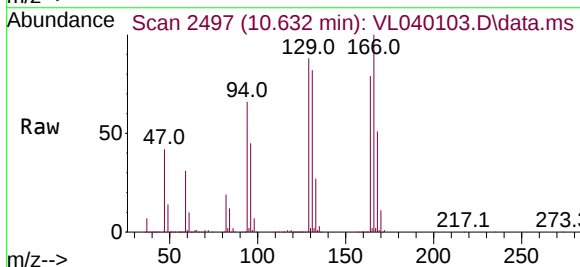
Ion Ratio Lower Upper

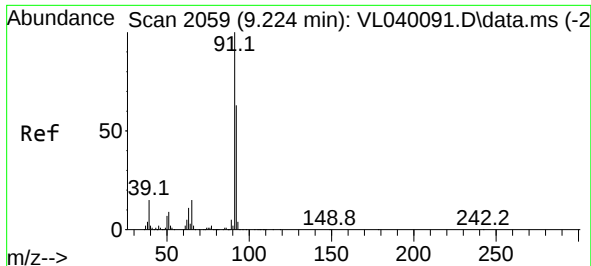
164 100

166 127.2 101.2 151.8

129 111.6 90.2 135.2

131 104.4 83.8 125.8





#53

Toluene

Concen: 0.313 ppbv

RT: 9.237 min Scan# 2059

Delta R.T. 0.013 min

Lab File: VL040103.D

Acq: 16 Jan 2023 18:28

Instrument :

MSVOA_L

ClientSampleId :

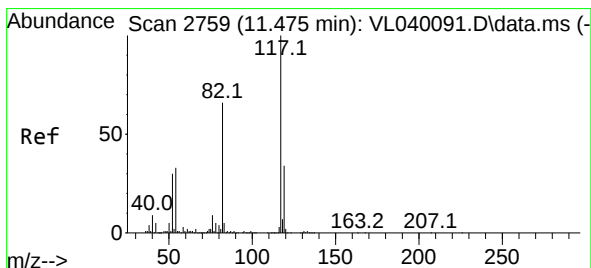
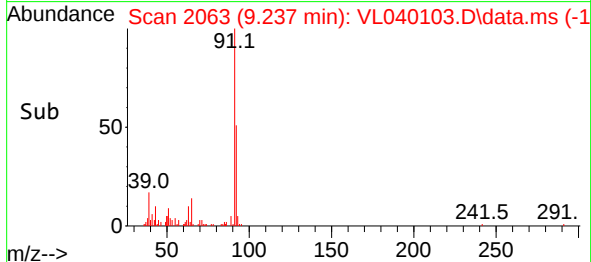
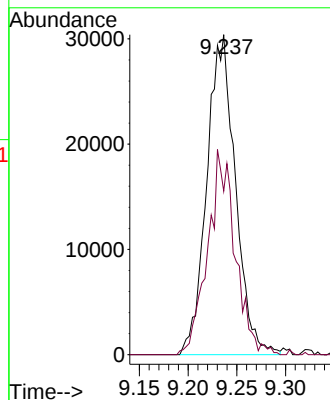
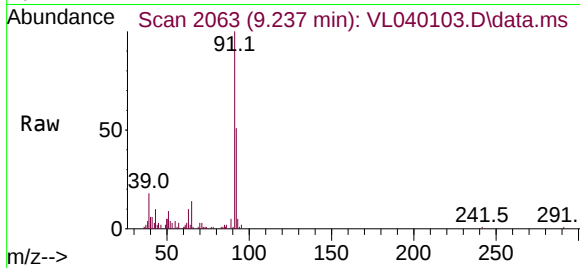
BH1N3DUP

Tgt Ion: 91 Resp: 62096

Ion Ratio Lower Upper

91 100

92 61.6 48.3 72.5



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.481 min Scan# 2761

Delta R.T. 0.006 min

Lab File: VL040103.D

Acq: 16 Jan 2023 18:28

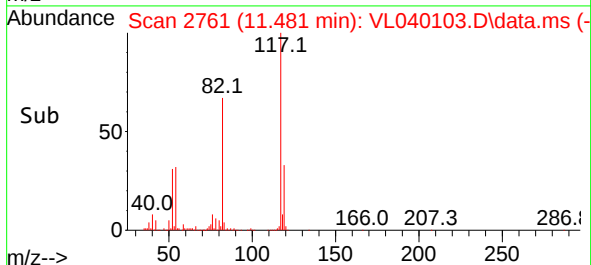
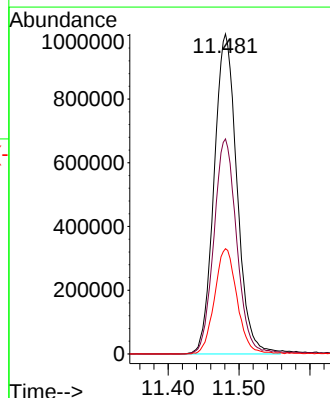
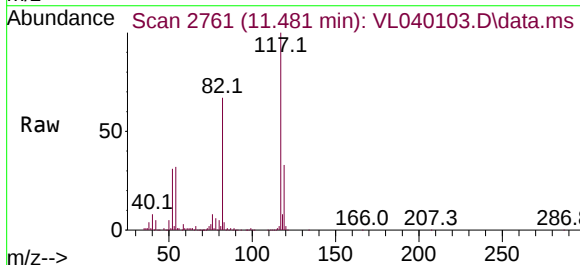
Tgt Ion: 117 Resp: 2250002

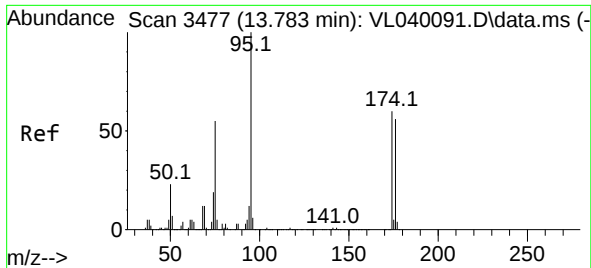
Ion Ratio Lower Upper

117 100

82 68.4 54.4 81.6

119 32.7 26.8 40.2





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.651 ppbv
 RT: 13.789 min Scan# 3479
 Delta R.T. 0.006 min
 Lab File: VL040103.D
 Acq: 16 Jan 2023 18:28

Instrument :
 MSVOA_L
 ClientSampleId :
 BH1N3DUP

Tgt Ion: 95 Resp: 1804697

Ion	Ratio	Lower	Upper
95	100		
174	58.9	47.7	71.5
175	4.3	3.4	5.2

