

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030823\
 Data File : VL040252.D
 Acq On : 8 Mar 2023 13:40
 Operator : SY/MD
 Sample : 01836-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LM-3723-IA

Quant Time: Mar 09 04:12:06 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Mar 01 04:21:39 2023
 Response via : Initial Calibration

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

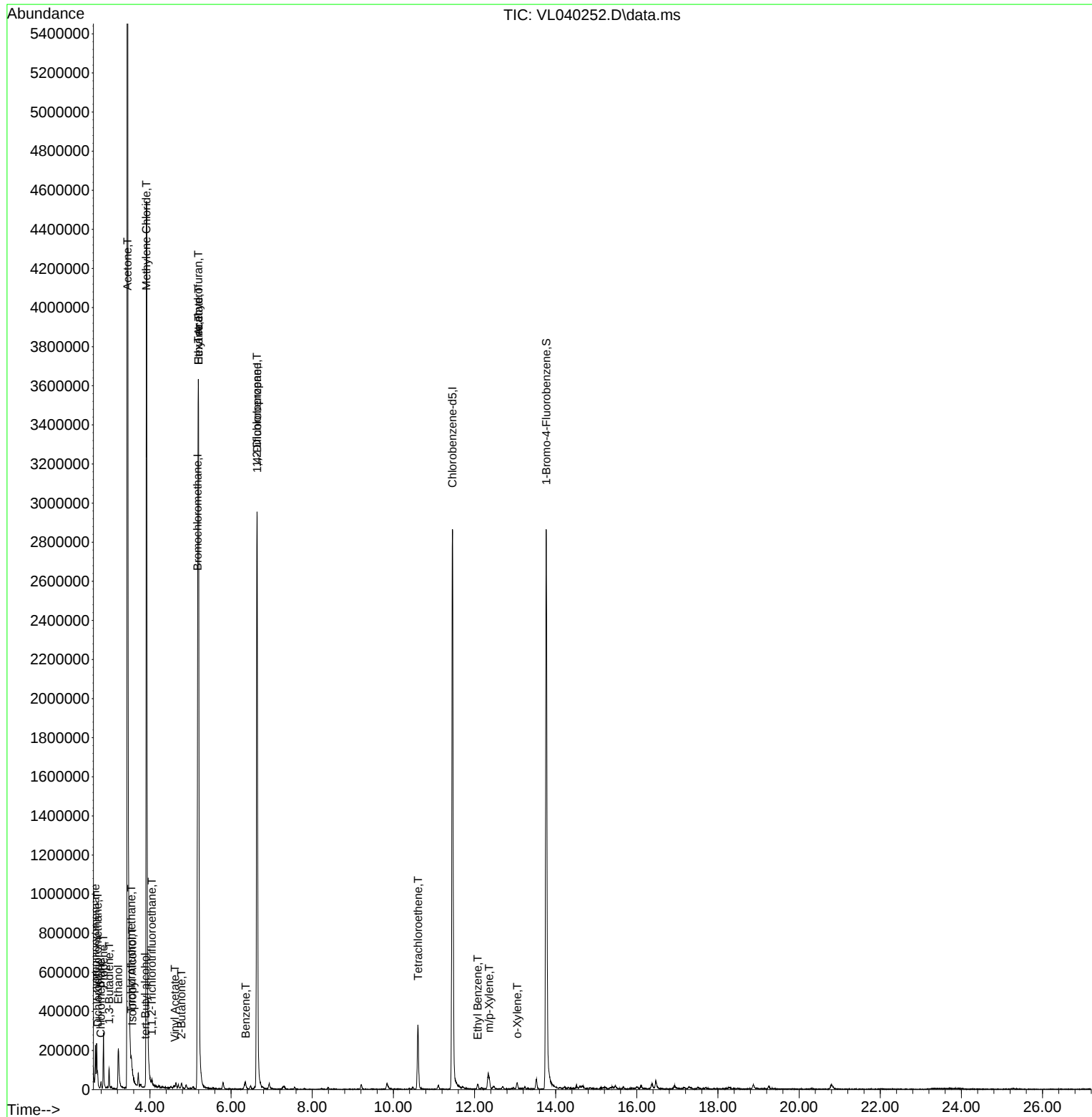
Internal Standards						
1) Bromochloromethane	5.176	49	859981	10.000	ppbv	-0.03
33) 1,4-Difluorobenzene	6.642	114	2127662	10.000	ppbv	-0.02
55) Chlorobenzene-d5	11.459	117	1793979	10.000	ppbv	-0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	1429832	9.693	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.900%
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.713	85	38423	0.240	ppbv	93
3) Chlorodifluoromethane	2.655	51	192996	1.879	ppbv	99
4) Chloromethane	2.793	50	26162	0.405	ppbv #	83
9) Propene	2.854	41	64864	1.549	ppbv	94
11) Trichlorofluoromethane	3.542	101	32873	0.229	ppbv	92
12) 1,1,2-Trichlorotrifluo...	4.047	101	4949	0.047	ppbv #	39
13) Ethanol	3.221	45	235094	60.982	ppbv	94
15) Acetone	3.446	43	8912570	86.082	ppbv	91
16) 1,3-Butadiene	2.993	39	10766	0.228	ppbv #	13
17) tert-Butyl alcohol	3.886	59	3223	0.034	ppbv #	72
19) Isopropyl Alcohol	3.568	45	20807	0.423	ppbv #	90
20) Methylene Chloride	3.915	84	1571501	29.156	ppbv	94
23) Vinyl Acetate	4.613	43	2089	0.066	ppbv #	73
25) Ethyl Acetate	5.198	43	847989	4.406	ppbv #	75
26) Hexane	5.198	57	1245208	15.070	ppbv #	36
34) 2-Butanone	4.777	43	18107	0.173	ppbv #	61
36) Benzene	6.359	78	15124	0.091	ppbv #	92
39) 1,2-Dichloropropane	6.639	63	548016	8.508	ppbv #	25
41) Tetrahydrofuran	5.195	42	460062	7.564	ppbv #	48
52) Tetrachloroethene	10.606	164	70497	1.363	ppbv	94
58) Ethyl Benzene	12.079	91	19903	0.091	ppbv #	89
59) m/p-Xylene	12.359	91	24018	0.124	ppbv #	33
60) o-Xylene	13.053	91	6754	0.036	ppbv #	33

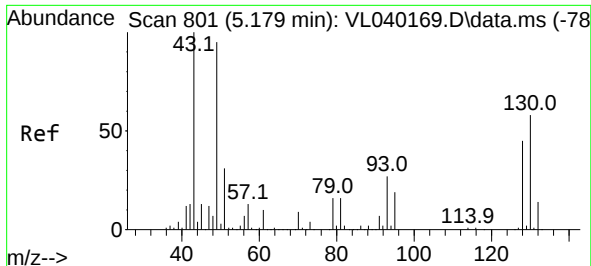
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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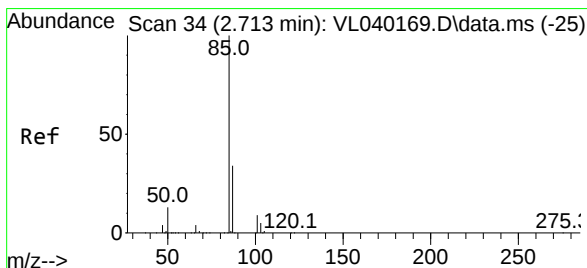
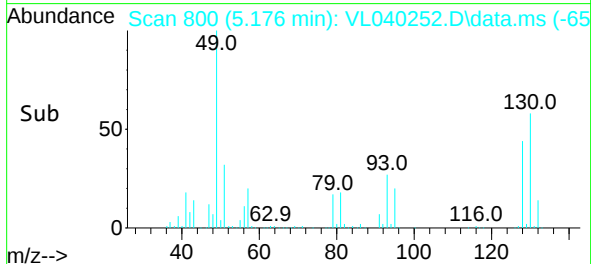
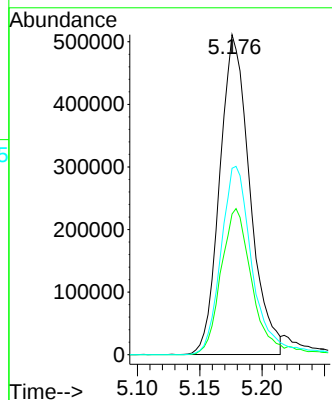
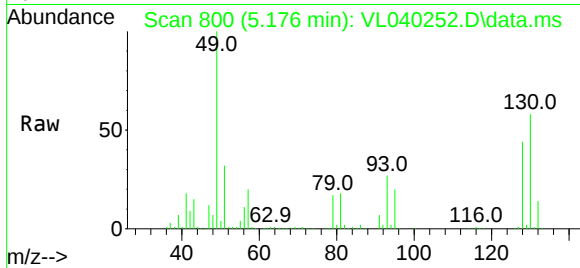




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.176 min Scan# 801
Delta R.T. -0.025 min
Lab File: VL040252.D
Acq: 8 Mar 2023 13:40

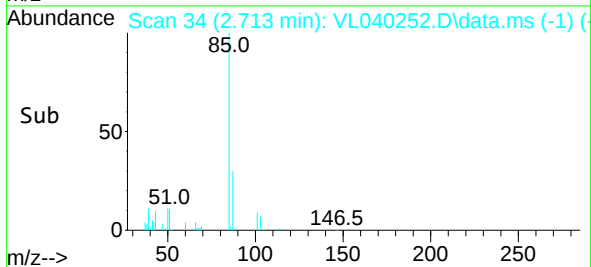
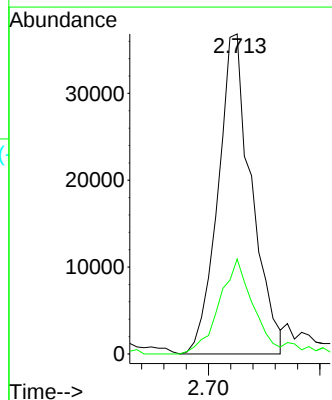
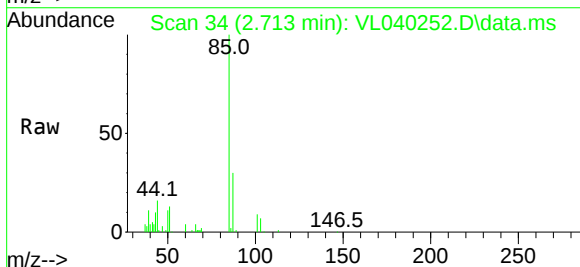
Instrument :
MSVOA_L
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LM-3723-IA

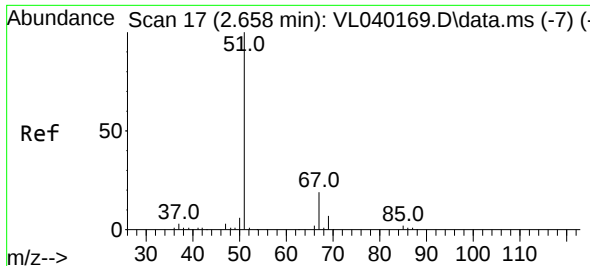
Tgt Ion: 49 Resp: 859981
Ion Ratio Lower Upper
49 100
128 48.8 24.1 72.3
130 63.0 30.9 92.8



#2
Dichlorodifluoromethane
Concen: 0.240 ppbv
RT: 2.713 min Scan# 34
Delta R.T. -0.013 min
Lab File: VL040252.D
Acq: 8 Mar 2023 13:40

Tgt Ion: 85 Resp: 38423
Ion Ratio Lower Upper
85 100
87 29.6 27.0 40.6

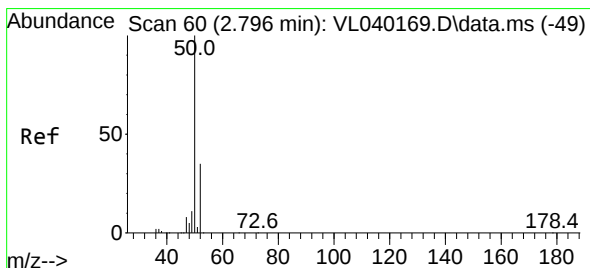
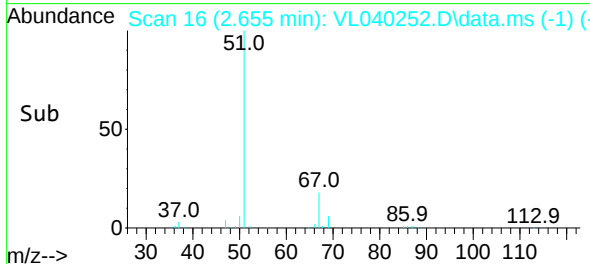
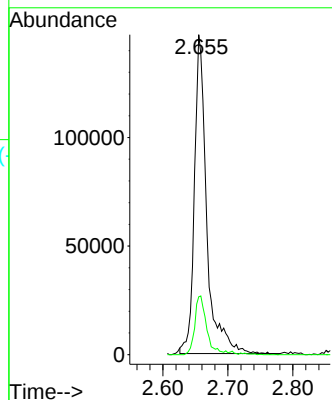
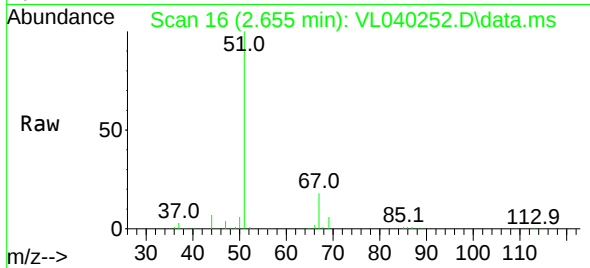




#3
Chlorodifluoromethane
Concen: 1.879 ppbv
RT: 2.655 min Scan# 1
Delta R.T. -0.016 min
Lab File: VL040252.D
Acq: 8 Mar 2023 13:40

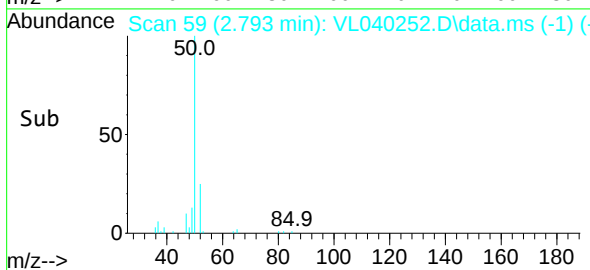
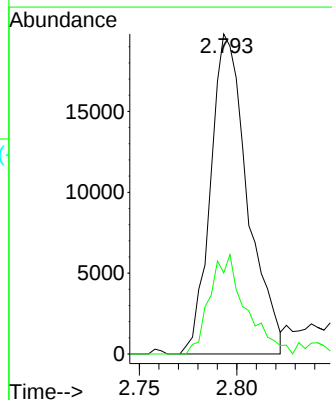
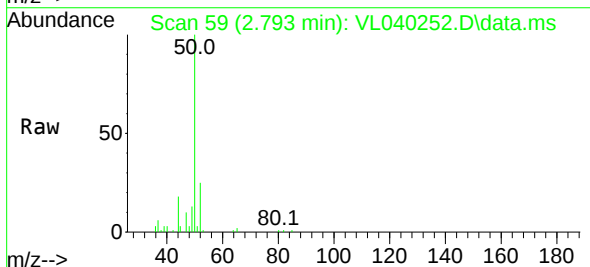
Instrument :
MSVOA_L
ClientSampleId :
LM-3723-IA

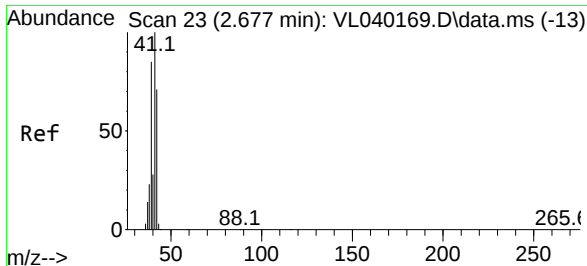
Tgt Ion: 51 Resp: 192996
Ion Ratio Lower Upper
51 100
67 18.7 15.4 23.2



#4
Chloromethane
Concen: 0.405 ppbv
RT: 2.793 min Scan# 59
Delta R.T. -0.019 min
Lab File: VL040252.D
Acq: 8 Mar 2023 13:40

Tgt Ion: 50 Resp: 26162
Ion Ratio Lower Upper
50 100
52 25.3 28.3 42.5#





#9

Propene

Concen: 1.549 ppbv

RT: 2.854 min Scan# 71

Delta R.T. 0.164 min

Lab File: VL040252.D

Acq: 8 Mar 2023 13:40

Instrument :

MSVOA_L

ClientSampleId :

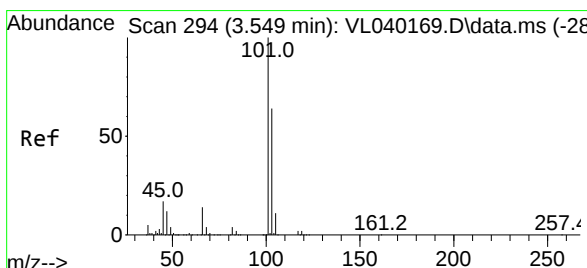
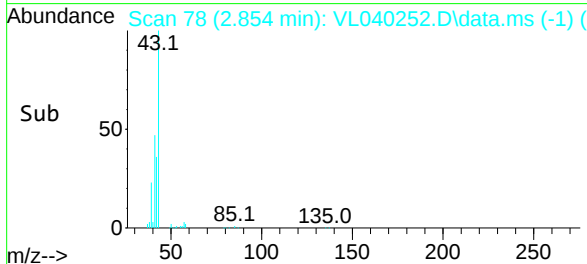
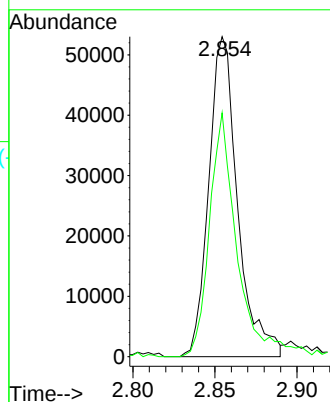
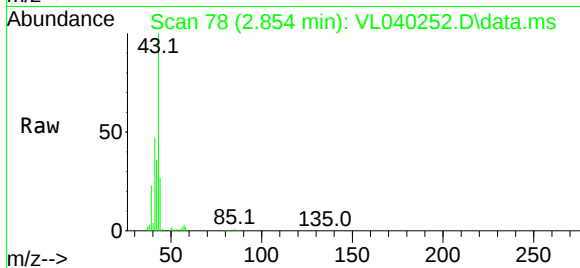
LM-3723-IA

Tgt Ion: 41 Resp: 64864

Ion Ratio Lower Upper

41 100

42 76.3 56.9 85.3



#11

Trichlorofluoromethane

Concen: 0.229 ppbv

RT: 3.542 min Scan# 292

Delta R.T. -0.022 min

Lab File: VL040252.D

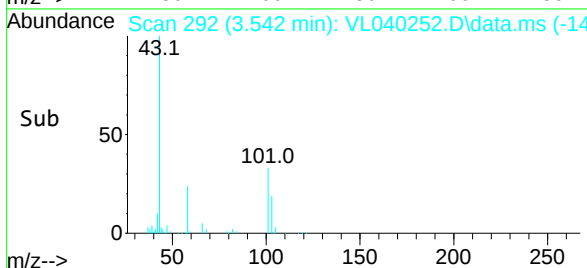
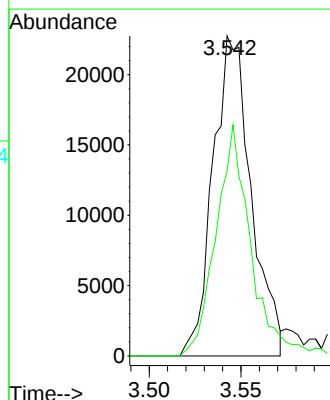
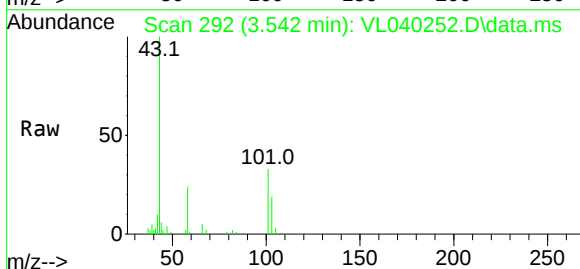
Acq: 8 Mar 2023 13:40

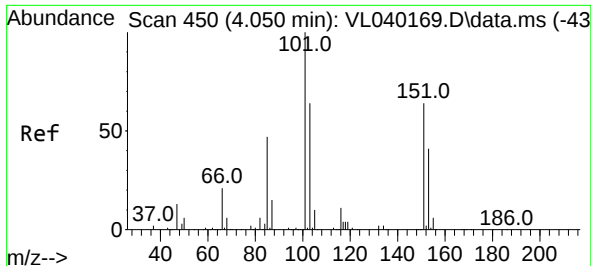
Tgt Ion: 101 Resp: 32873

Ion Ratio Lower Upper

101 100

103 57.8 51.0 76.6

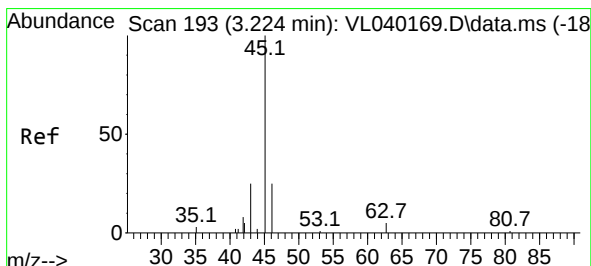
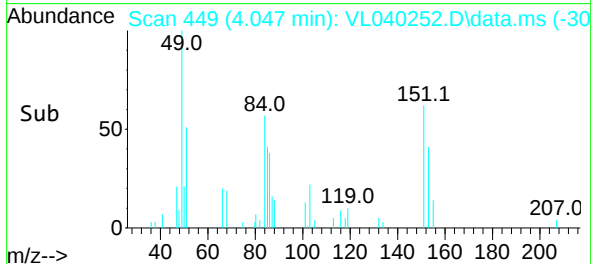
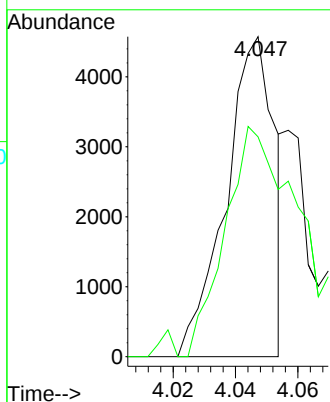
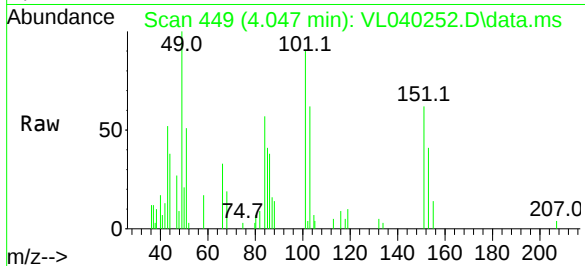




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.047 ppbv
 RT: 4.047 min Scan# 449
 Delta R.T. -0.022 min
 Lab File: VL040252.D
 Acq: 8 Mar 2023 13:40

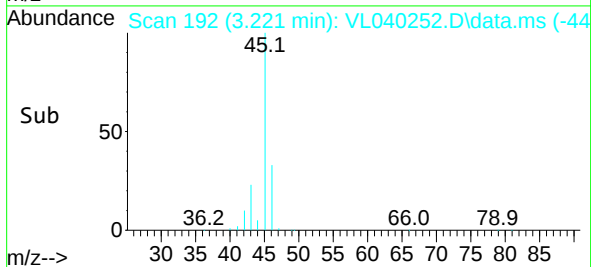
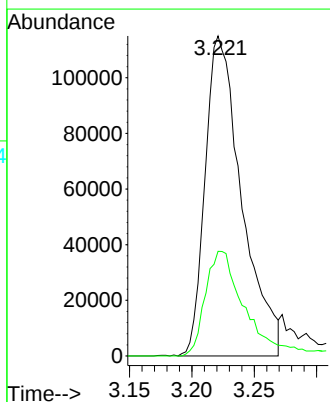
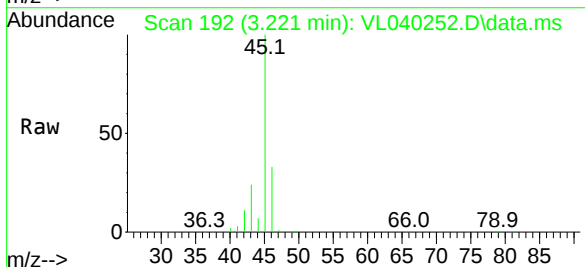
Instrument :
 MSVOA_L
 ClientSampleId :
 LM-3723-IA

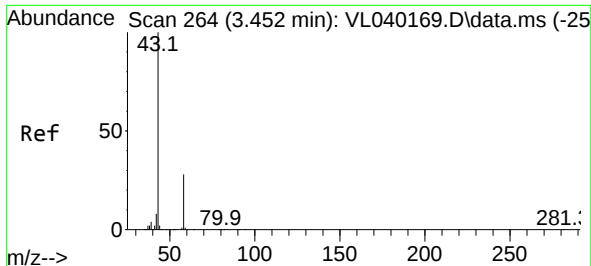
Tgt Ion:101 Resp: 4949
 Ion Ratio Lower Upper
 101 100
 151 117.7 54.7 82.1#



#13
 Ethanol
 Concen: 60.982 ppbv
 RT: 3.221 min Scan# 192
 Delta R.T. -0.026 min
 Lab File: VL040252.D
 Acq: 8 Mar 2023 13:40

Tgt Ion: 45 Resp: 235094
 Ion Ratio Lower Upper
 45 100
 46 36.5 13.3 53.1

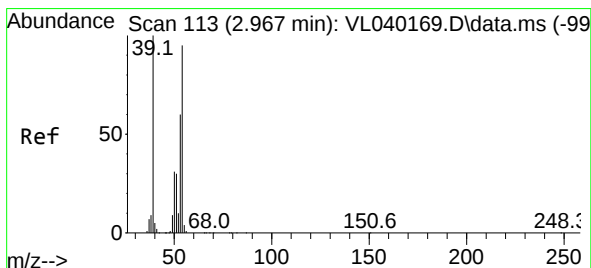
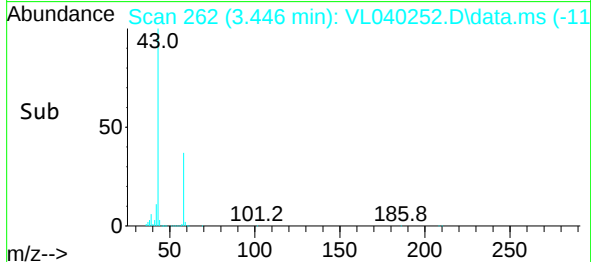
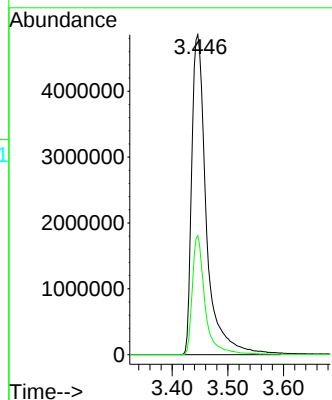
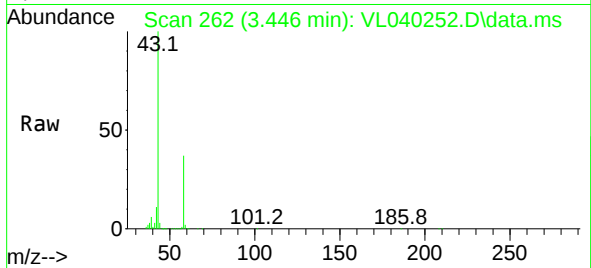




#15
Acetone
Concen: 86.082 ppbv
RT: 3.446 min Scan# 21
Delta R.T. -0.022 min
Lab File: VL040252.D
Acq: 8 Mar 2023 13:40

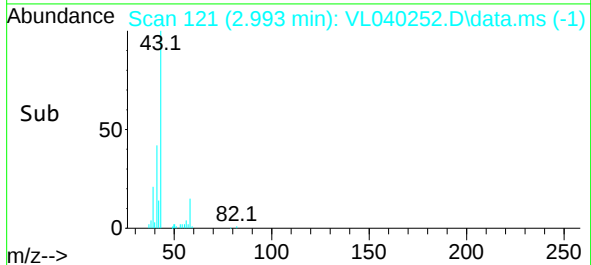
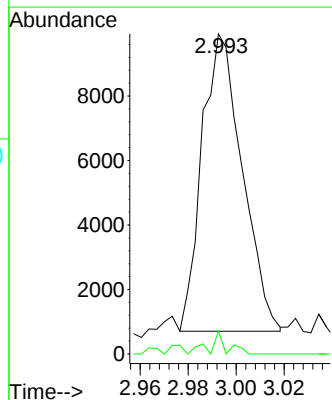
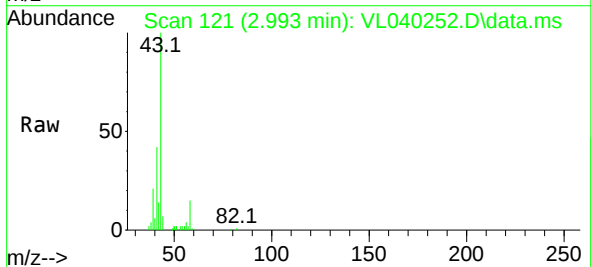
Instrument :
MSVOA_L
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LM-3723-IA

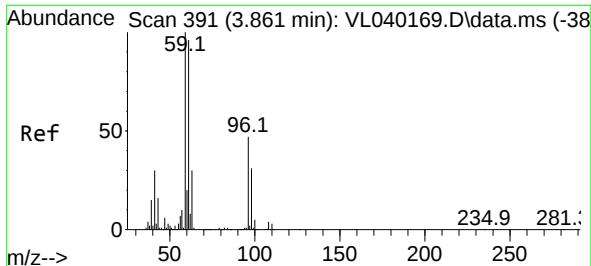
Tgt Ion: 43 Resp: 8912570
Ion Ratio Lower Upper
43 100
58 32.7 22.4 33.6



#16
1,3-Butadiene
Concen: 0.228 ppbv
RT: 2.993 min Scan# 121
Delta R.T. 0.010 min
Lab File: VL040252.D
Acq: 8 Mar 2023 13:40

Tgt Ion: 39 Resp: 10766
Ion Ratio Lower Upper
39 100
54 4.7 66.7 100.1#





#17

tert-Butyl alcohol

Concen: 0.034 ppbv

RT: 3.886 min Scan# 31

Delta R.T. 0.007 min

Lab File: VL040252.D

Acq: 8 Mar 2023 13:40

Instrument :

MSVOA_L

ClientSampleId :

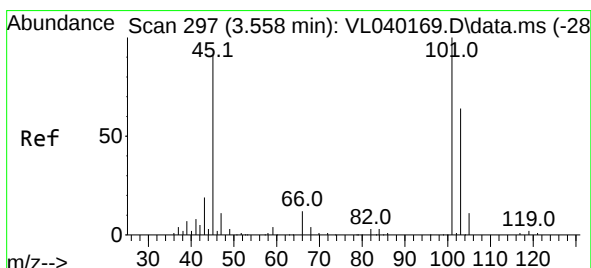
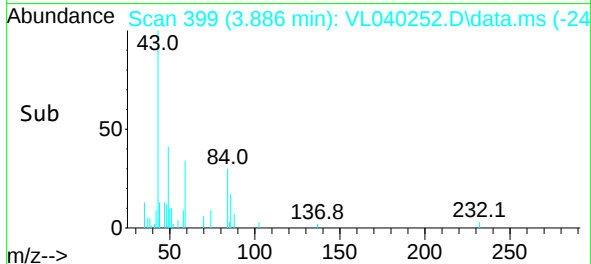
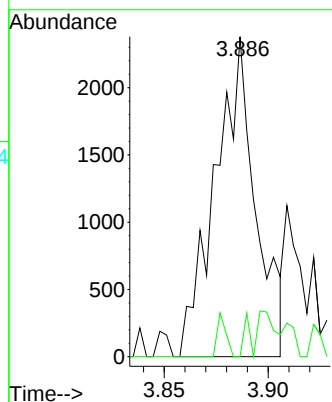
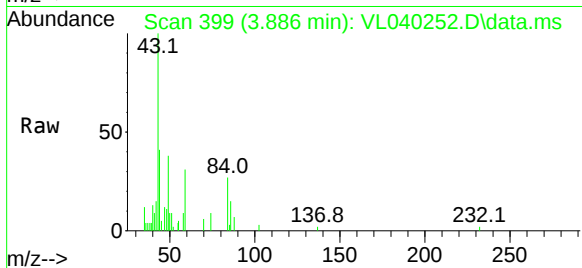
LM-3723-IA

Tgt Ion: 59 Resp: 3223

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



#19

Isopropyl Alcohol

Concen: 0.423 ppbv

RT: 3.568 min Scan# 300

Delta R.T. -0.006 min

Lab File: VL040252.D

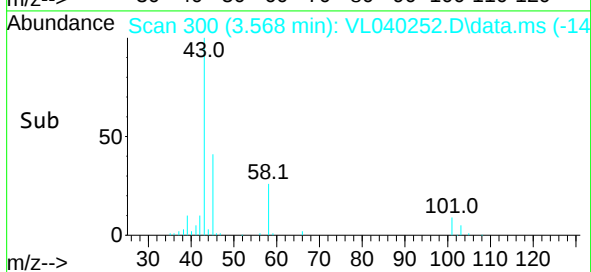
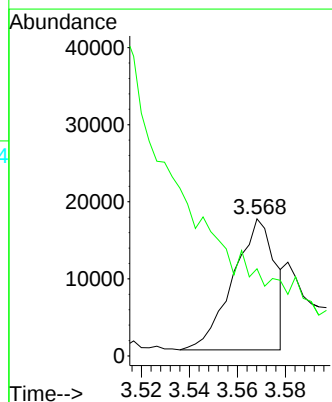
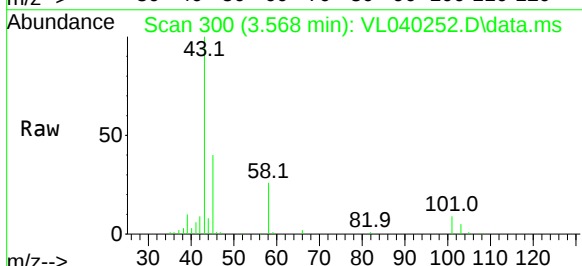
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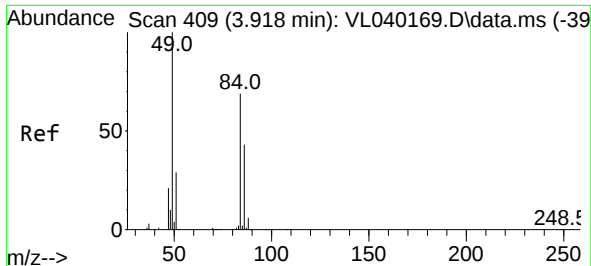
Tgt Ion: 45 Resp: 20807

Ion Ratio Lower Upper

45 100

58 0.0 2.6 3.8#





#20

Methylene Chloride

Concen: 29.156 ppbv

RT: 3.915 min Scan# 40

Delta R.T. -0.019 min

Lab File: VL040252.D

Acq: 8 Mar 2023 13:40

Instrument :

MSVOA_L

ClientSampleId :

LM-3723-IA

Tgt Ion: 84 Resp: 1571501

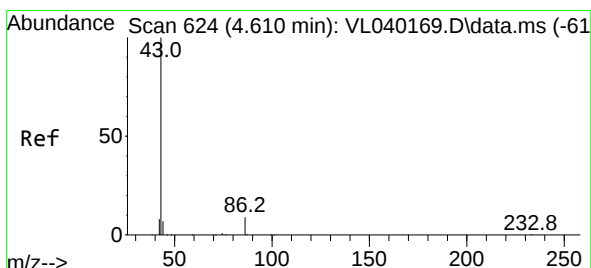
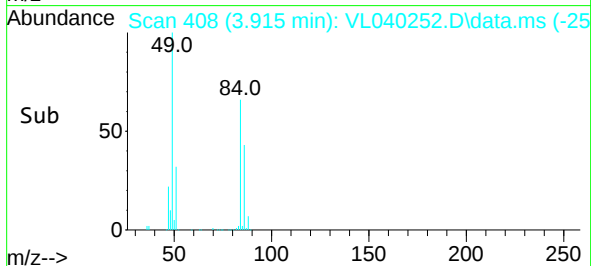
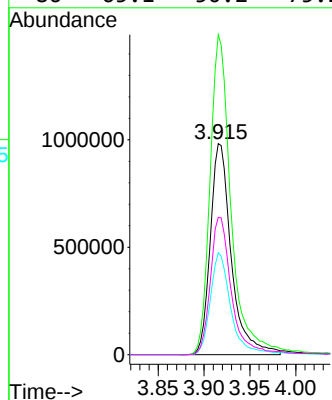
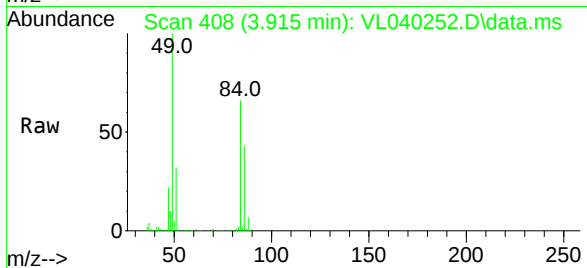
Ion Ratio Lower Upper

84 100

49 151.6 115.5 173.3

51 48.3 33.1 49.7

86 65.1 50.2 75.2



#23

Vinyl Acetate

Concen: 0.066 ppbv

RT: 4.613 min Scan# 625

Delta R.T. -0.019 min

Lab File: VL040252.D

Acq: 8 Mar 2023 13:40

Tgt Ion: 43 Resp: 2089

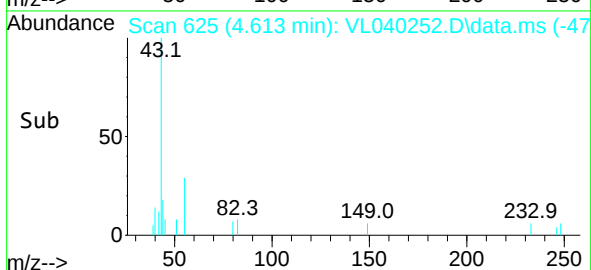
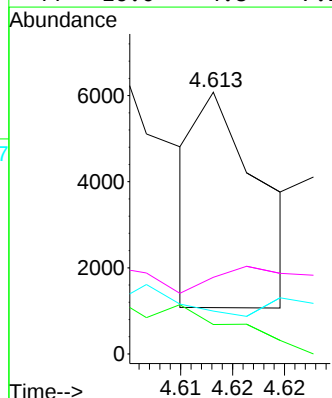
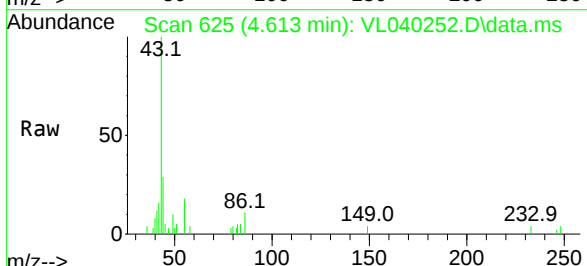
Ion Ratio Lower Upper

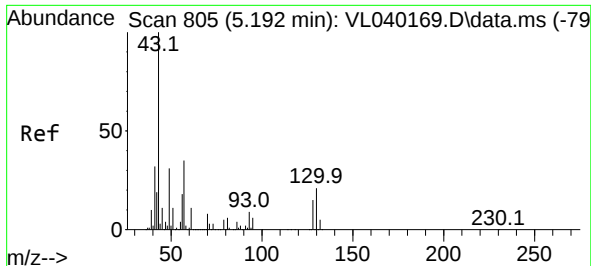
43 100

86 15.9 5.6 8.4#

42 0.0 7.6 11.4#

44 16.0 4.8 7.2#



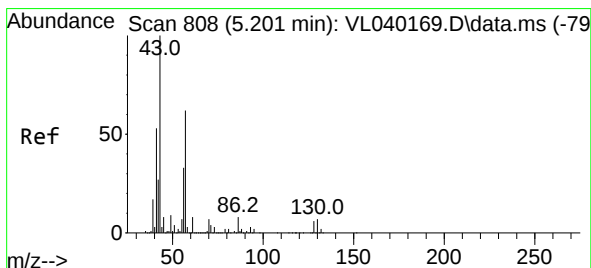
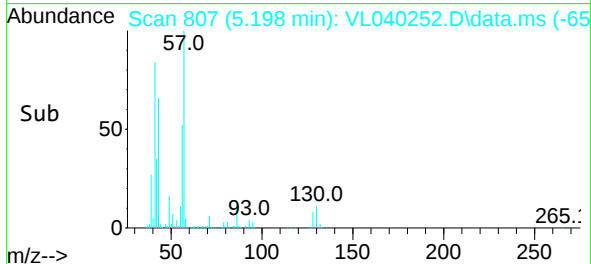
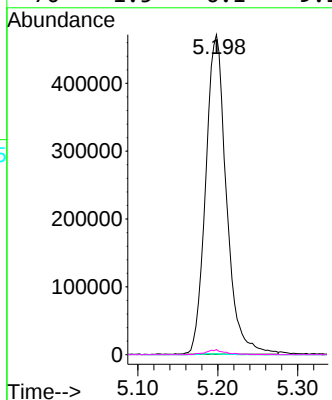
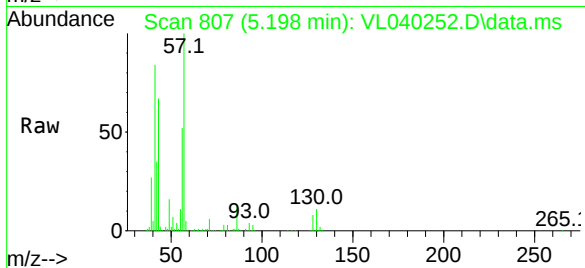


#25
Ethyl Acetate
Concen: 4.406 ppbv
RT: 5.198 min Scan# 807
Delta R.T. -0.013 min
Lab File: VL040252.D
Acq: 8 Mar 2023 13:40

Instrument :
MSVOA_L
ClientSampleId :
LM-3723-IA

Tgt Ion: 43 Resp: 847989

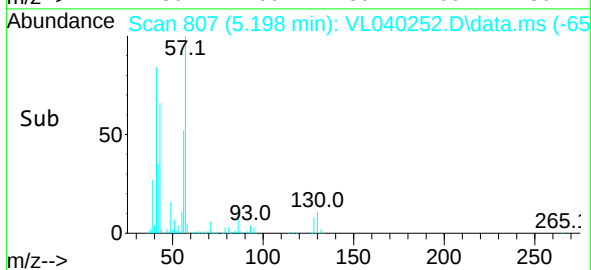
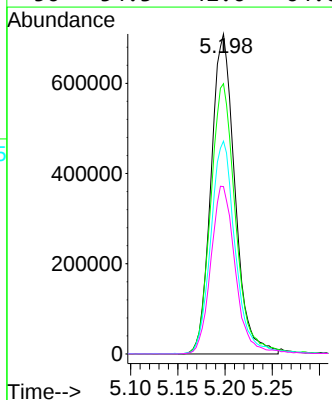
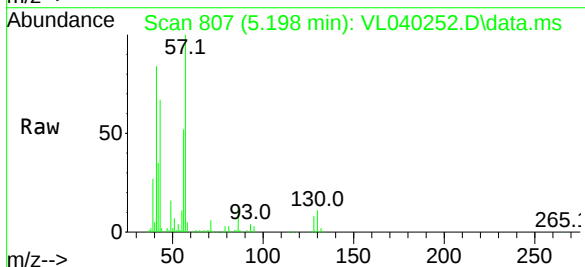
Ion	Ratio	Lower	Upper
43	100		
45	0.3	8.3	12.5#
61	0.3	8.4	12.6#
70	1.5	6.1	9.1#

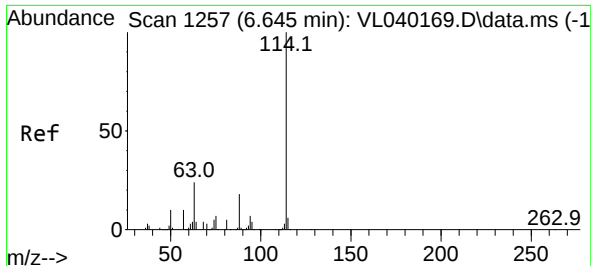


#26
Hexane
Concen: 15.070 ppbv
RT: 5.198 min Scan# 807
Delta R.T. -0.026 min
Lab File: VL040252.D
Acq: 8 Mar 2023 13:40

Tgt Ion: 57 Resp: 1245208

Ion	Ratio	Lower	Upper
57	100		
41	88.6	74.3	111.5
43	68.7	193.0	289.4#
56	54.3	42.6	64.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.642 min Scan# 11

Delta R.T. -0.022 min

Lab File: VL040252.D

Acq: 8 Mar 2023 13:40

Instrument :

MSVOA_L

ClientSampleId :

LM-3723-IA

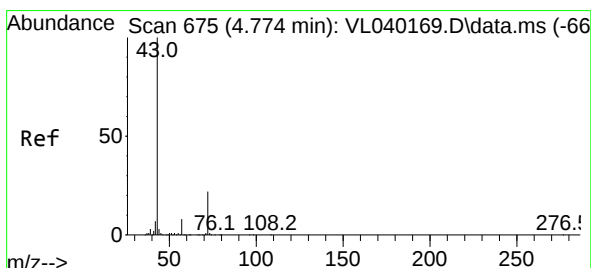
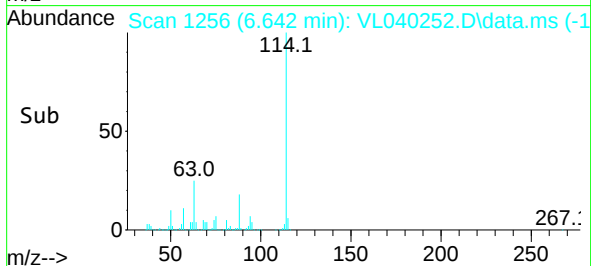
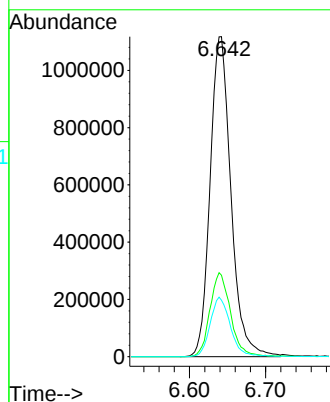
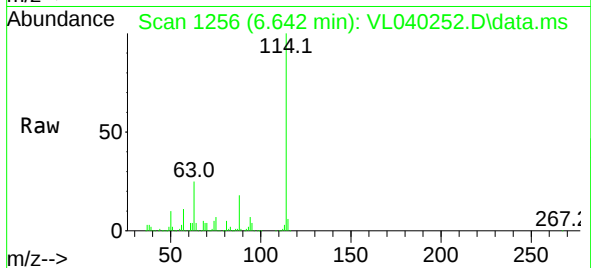
Tgt Ion:114 Resp: 2127662

Ion Ratio Lower Upper

114 100

63 26.2 20.4 30.6

88 18.2 14.3 21.5



#34

2-Butanone

Concen: 0.173 ppbv

RT: 4.777 min Scan# 676

Delta R.T. -0.016 min

Lab File: VL040252.D

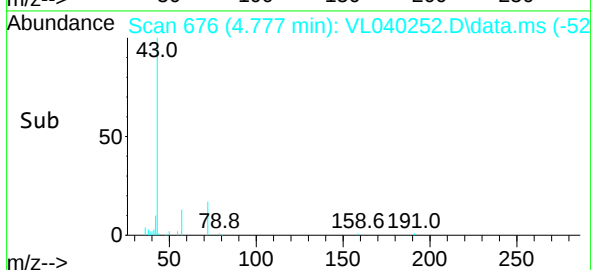
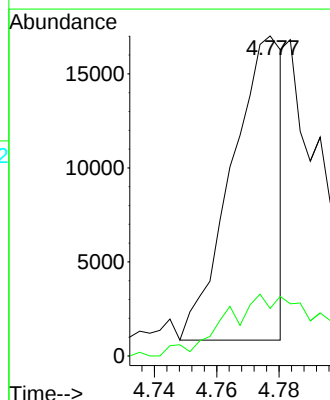
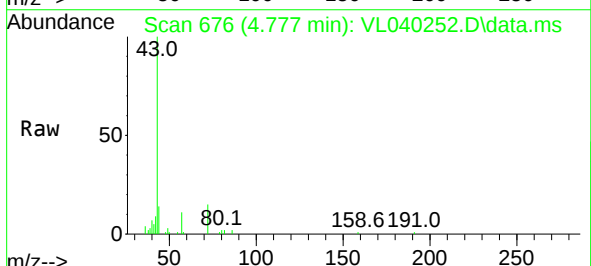
Acq: 8 Mar 2023 13:40

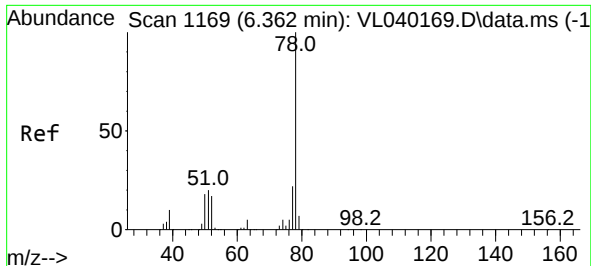
Tgt Ion: 43 Resp: 18107

Ion Ratio Lower Upper

43 100

72 41.1 17.8 26.8#





#36

Benzene

Concen: 0.091 ppbv

RT: 6.359 min Scan# 1168

Delta R.T. -0.026 min

Lab File: VL040252.D

Acq: 8 Mar 2023 13:40

Instrument :

MSVOA_L

ClientSampleId :

LM-3723-IA

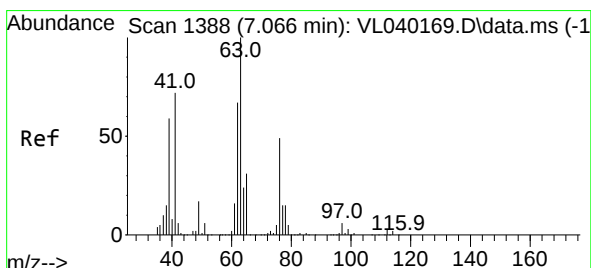
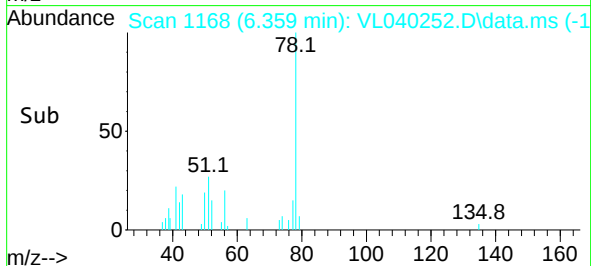
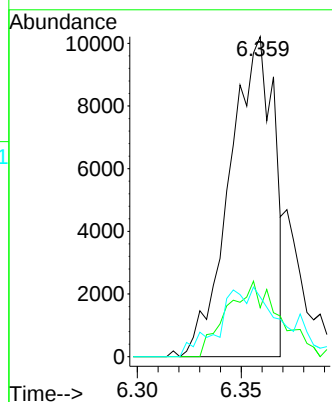
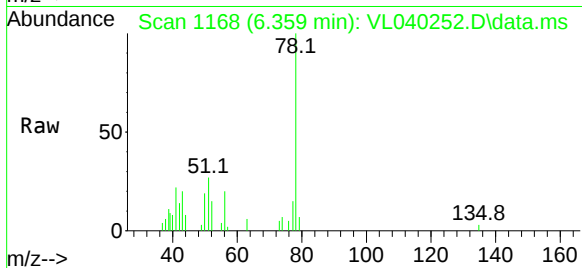
Tgt Ion: 78 Resp: 15124

Ion Ratio Lower Upper

78 100

77 15.3 17.5 26.3#

50 18.7 14.6 22.0



#39

1,2-Dichloropropane

Concen: 8.508 ppbv

RT: 6.639 min Scan# 1255

Delta R.T. -0.447 min

Lab File: VL040252.D

Acq: 8 Mar 2023 13:40

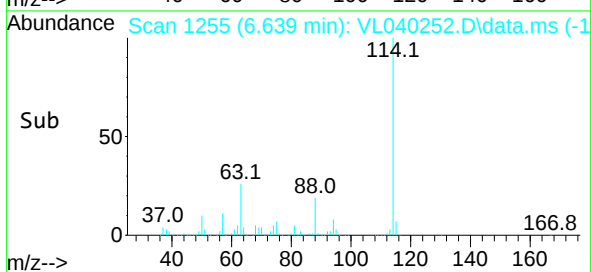
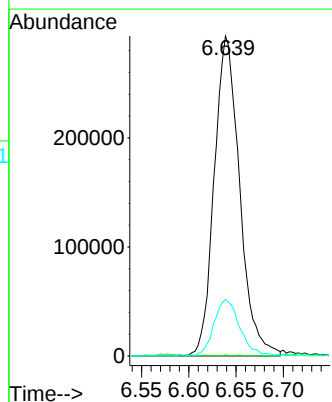
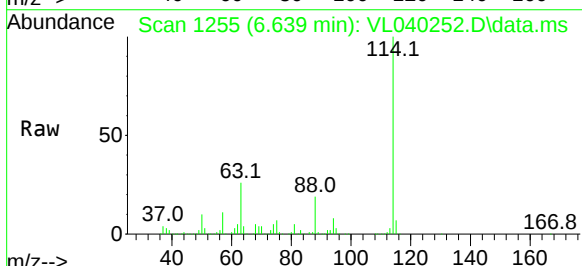
Tgt Ion: 63 Resp: 548016

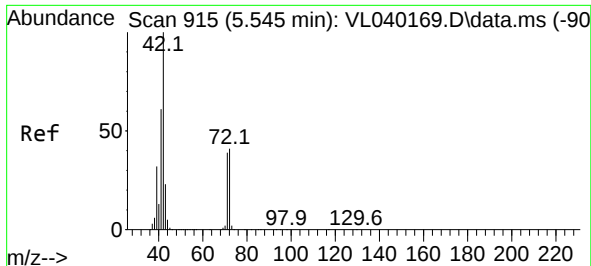
Ion Ratio Lower Upper

63 100

41 0.1 57.6 86.4#

62 17.7 54.0 81.0#

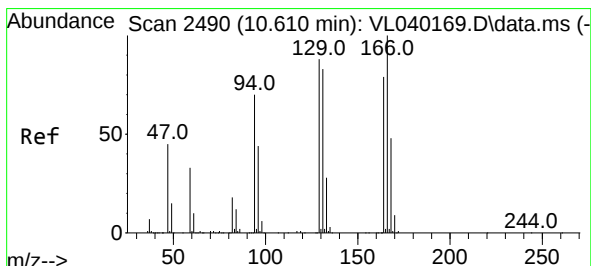
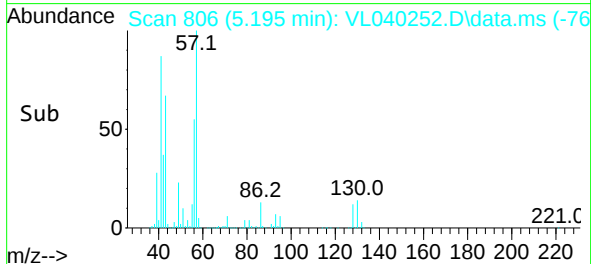
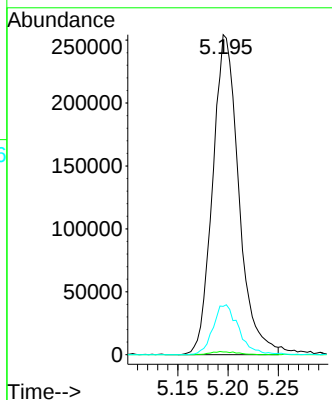
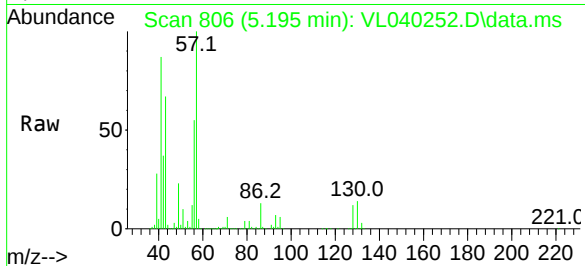




#41
Tetrahydrofuran
Concen: 7.564 ppbv
RT: 5.195 min Scan# 80
Delta R.T. -0.373 min
Lab File: VL040252.D
Acq: 8 Mar 2023 13:40

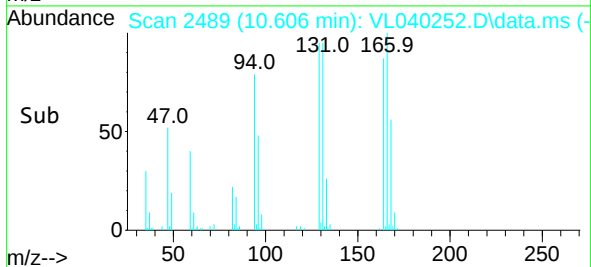
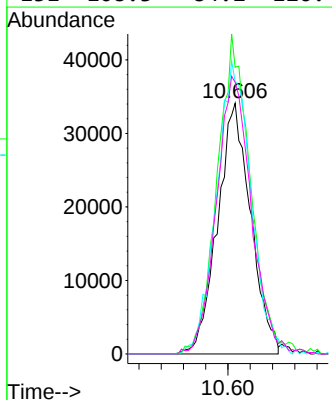
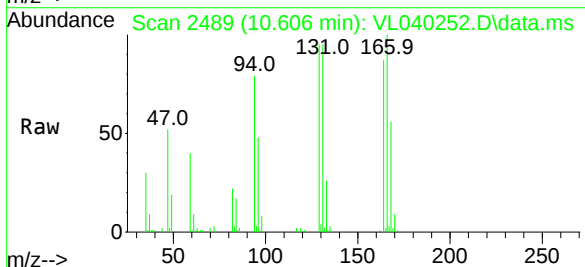
Instrument :
MSVOA_L
ClientSampleId :
LM-3723-IA

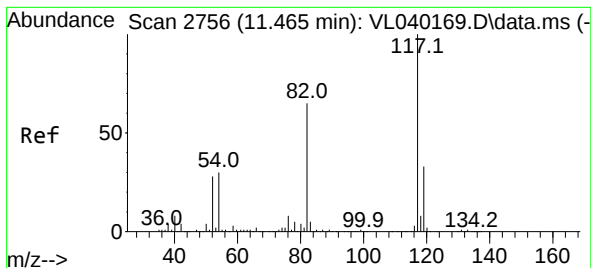
Tgt Ion: 42 Resp: 460062
Ion Ratio Lower Upper
42 100
72 1.0 33.0 49.4#
71 15.4 31.4 47.2#



#52
Tetrachloroethene
Concen: 1.363 ppbv
RT: 10.606 min Scan# 2489
Delta R.T. -0.029 min
Lab File: VL040252.D
Acq: 8 Mar 2023 13:40

Tgt Ion: 164 Resp: 70497
Ion Ratio Lower Upper
164 100
166 113.8 101.5 152.3
129 108.7 89.0 133.4
131 108.3 84.2 126.4

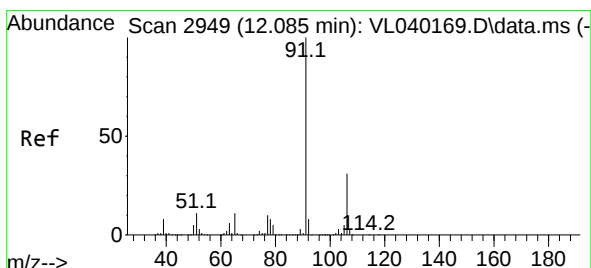
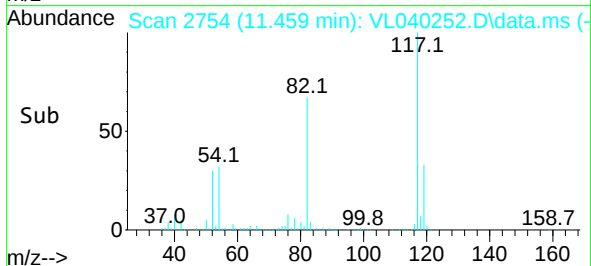
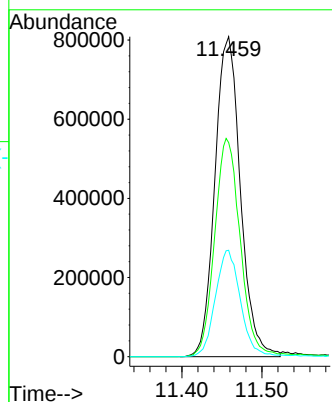
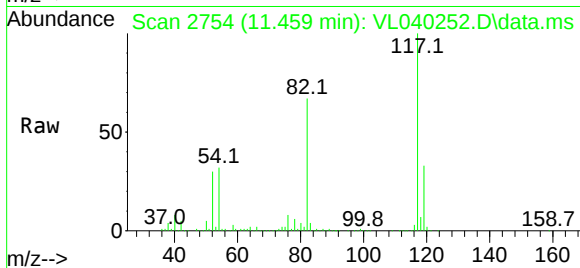




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.459 min Scan# 21
Delta R.T. -0.029 min
Lab File: VL040252.D
Acq: 8 Mar 2023 13:40

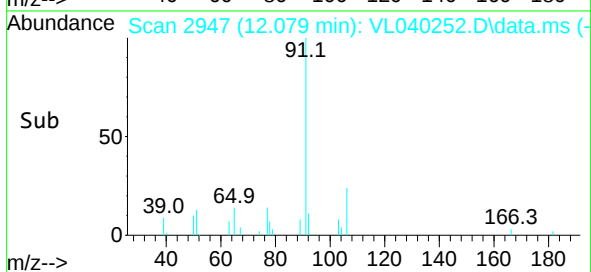
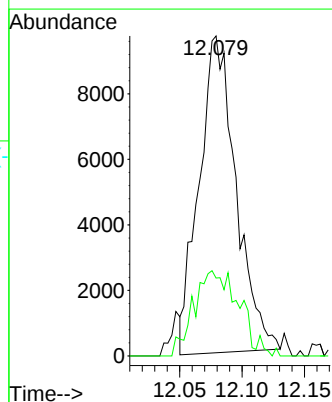
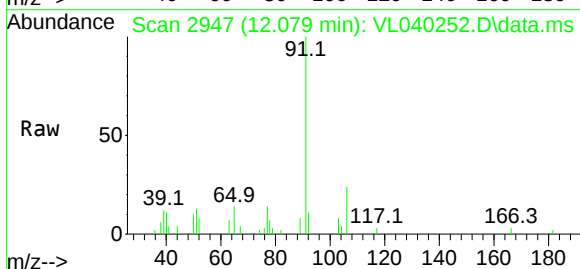
Instrument :
MSVOA_L
ClientSampleId :
LM-3723-IA

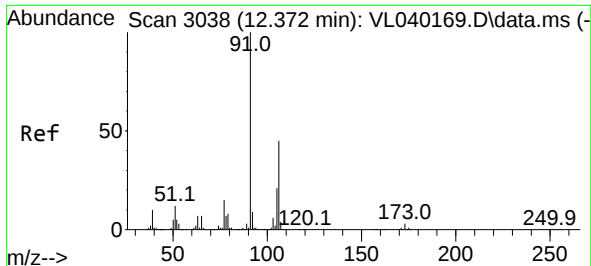
Tgt Ion:117 Resp: 1793979
Ion Ratio Lower Upper
117 100
82 69.6 53.3 79.9
119 33.0 24.6 37.0



#58
Ethyl Benzene
Concen: 0.091 ppbv
RT: 12.079 min Scan# 2947
Delta R.T. -0.032 min
Lab File: VL040252.D
Acq: 8 Mar 2023 13:40

Tgt Ion: 91 Resp: 19903
Ion Ratio Lower Upper
91 100
106 24.9 24.9 37.3#





#59

m/p-Xylene

Concen: 0.124 ppbv

RT: 12.359 min Scan# 3034

Delta R.T. -0.038 min

Lab File: VL040252.D

Acq: 8 Mar 2023 13:40

Instrument :

MSVOA_L

ClientSampleId :

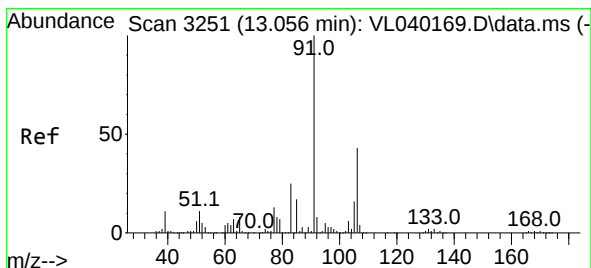
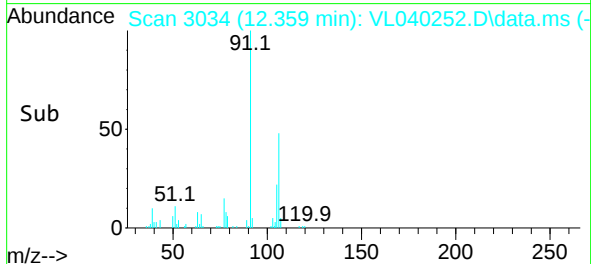
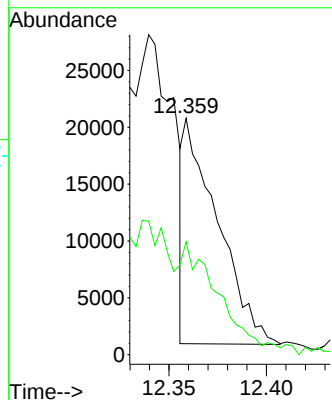
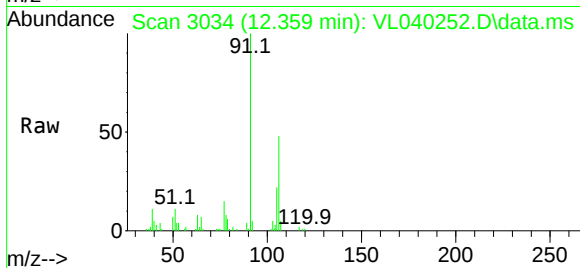
LM-3723-IA

Tgt Ion: 91 Resp: 24018

Ion Ratio Lower Upper

91 100

106 0.0 34.6 51.8#



#60

o-Xylene

Concen: 0.036 ppbv

RT: 13.053 min Scan# 3250

Delta R.T. -0.029 min

Lab File: VL040252.D

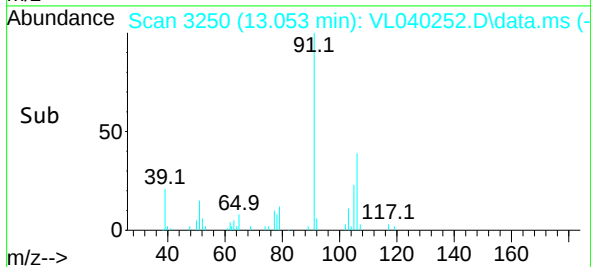
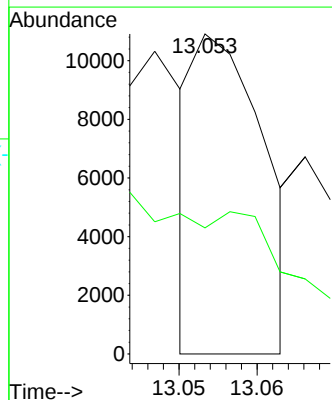
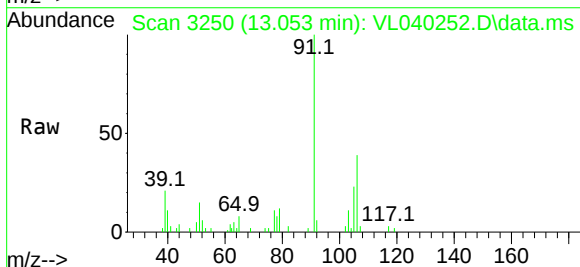
Acq: 8 Mar 2023 13:40

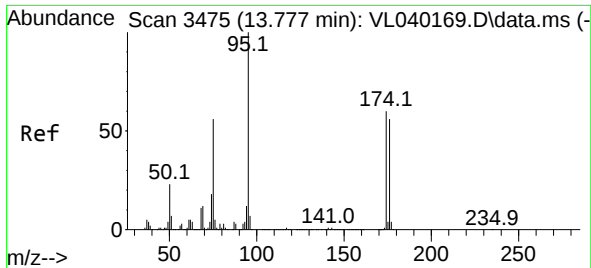
Tgt Ion: 91 Resp: 6754

Ion Ratio Lower Upper

91 100

106 0.0 21.6 65.0#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.693 ppbv
 RT: 13.767 min Scan# 34
 Delta R.T. -0.029 min
 Lab File: VL040252.D
 Acq: 8 Mar 2023 13:40

Instrument :
 MSVOA_L
 ClientSampleId :
 LM-3723-IA

Tgt Ion: 95 Resp: 1429832

Ion	Ratio	Lower	Upper
95	100		
174	58.8	48.2	72.2
175	4.3	3.4	5.2

