

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110823\
 Data File : VL040822.D
 Acq On : 8 Nov 2023 22:35
 Operator : SY/MD
 Sample : 05276-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SH-IA-4

Quant Time: Nov 09 00:34:35 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Nov 09 00:25:02 2023
 Response via : Initial Calibration

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

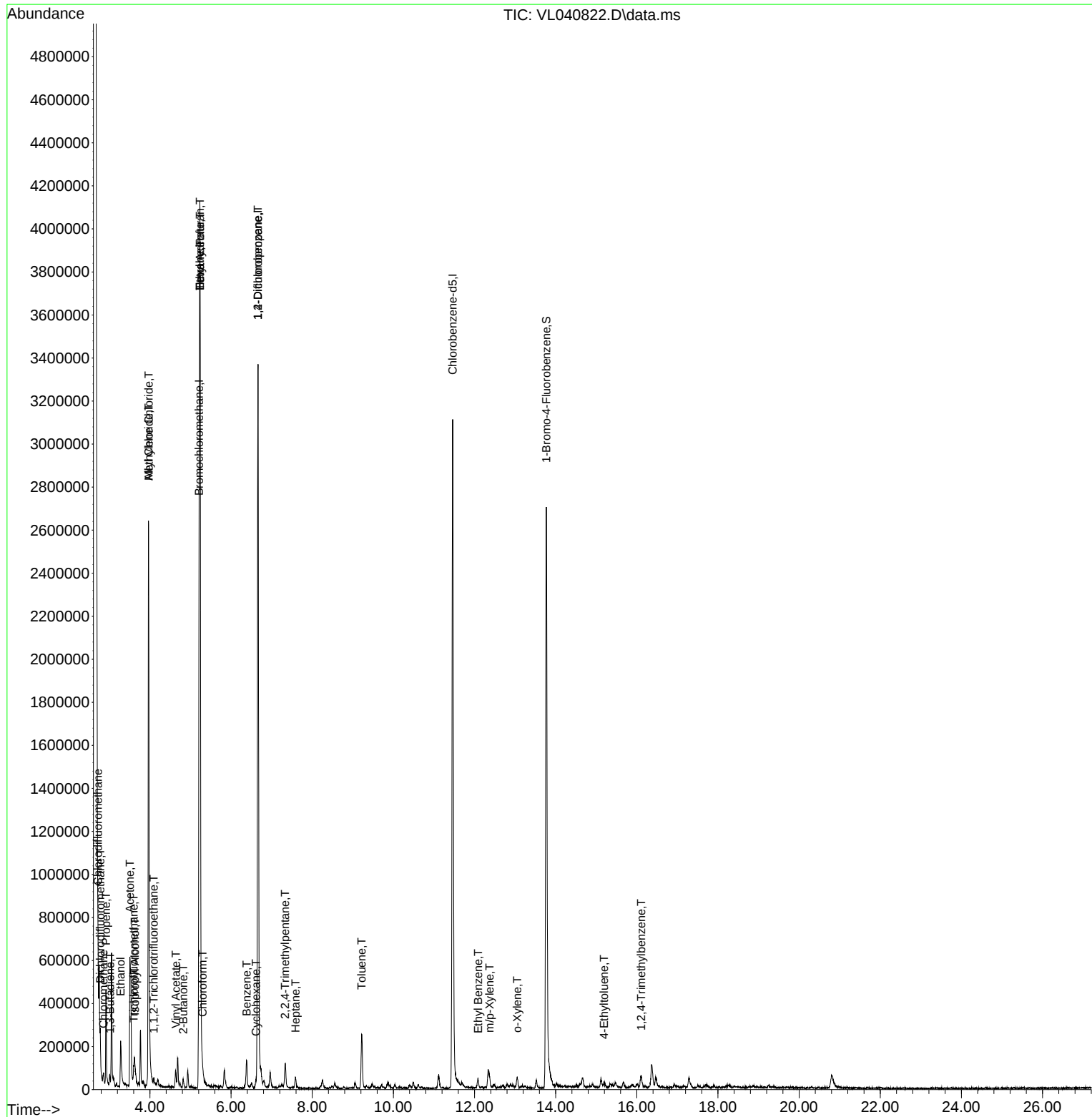
Internal Standards						
1) Bromochloromethane	5.211	49	1018457	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.664	114	2625984	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.461	117	2076906	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.770	95	1465100	9.587	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.774	85	103136	0.575	ppbv	99
3) Chlorodifluoromethane	2.719	51	112714	0.753	ppbv #	84
4) Chloromethane	2.857	50	25263	0.427	ppbv	99
9) Propene	2.918	41	107746	1.938	ppbv	94
10) Heptane	7.587	43	14132	0.101	ppbv #	49
11) Trichlorofluoromethane	3.597	101	38699	0.280	ppbv	100
12) 1,1,2-Trichlorotrifluo...	4.095	101	8194	0.083	ppbv	92
13) Ethanol	3.279	45	250493	19.960	ppbv	99
15) Acetone	3.507	43	700844	6.656	ppbv	94
16) 1,3-Butadiene	3.018	39	4457	0.081	ppbv #	50
19) Isopropyl Alcohol	3.626	45	155591	2.296	ppbv #	1
20) Methylene Chloride	3.967	84	871018	19.861	ppbv	97
21) Allyl Chloride	3.967	41	31887	0.459	ppbv #	33
23) Vinyl Acetate	4.639	43	10170	0.076	ppbv #	1
25) Ethyl Acetate	5.233	43	1036698	4.494	ppbv #	76
26) Hexane	5.233	57	1478523	14.023	ppbv #	41
29) Chloroform	5.295	83	6761	0.044	ppbv	87
30) Cyclohexane	6.613	84	6944	0.077	ppbv #	1
34) 2-Butanone	4.819	43	49628	0.418	ppbv #	90
36) Benzene	6.385	78	98623	0.488	ppbv #	89
39) 1,2-Dichloropropane	6.664	63	636554	8.067	ppbv #	26
41) Tetrahydrofuran	5.233	42	550129	6.683	ppbv #	51
44) 2,2,4-Trimethylpentane	7.333	57	100891	0.295	ppbv #	82
53) Toluene	9.217	91	181950	0.757	ppbv	99
58) Ethyl Benzene	12.085	91	26996	0.103	ppbv	92
59) m/p-Xylene	12.375	91	14622	0.068	ppbv #	30
60) o-Xylene	13.053	91	22991	0.112	ppbv #	59
72) 4-Ethyltoluene	15.188	105	9572	0.040	ppbv #	78
74) 1,2,4-Trimethylbenzene	16.104	105	12560	0.054	ppbv #	50

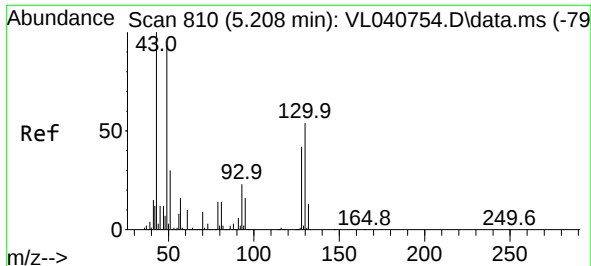
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.211 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL040822.D

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Instrument :

MSVOA_L

ClientSampleId :

SH-IA-4

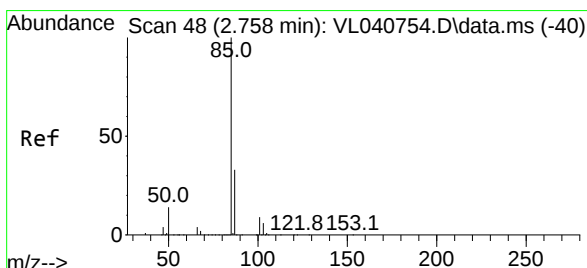
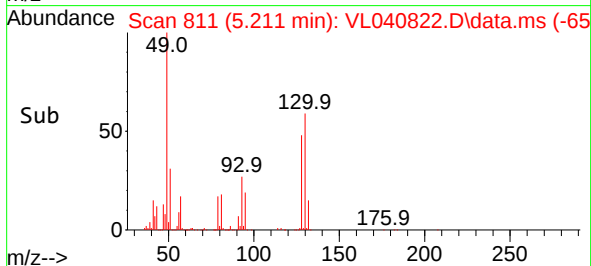
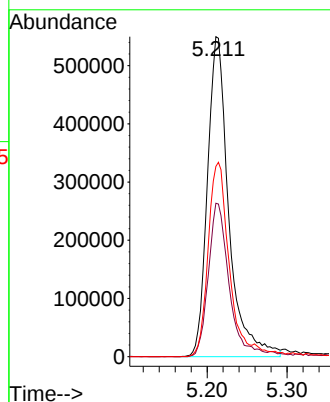
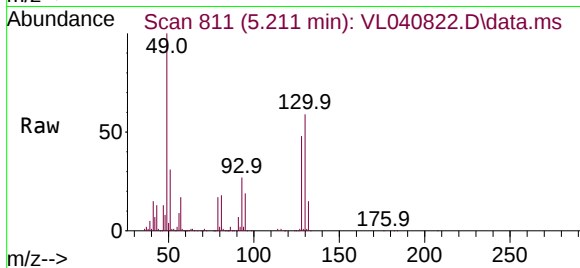
Tgt Ion: 49 Resp: 1018457

Ion Ratio Lower Upper

49 100

128 48.7 23.9 71.7

130 61.1 30.7 92.1



#2

Dichlorodifluoromethane

Concen: 0.575 ppbv

RT: 2.774 min Scan# 53

Delta R.T. 0.003 min

Lab File: VL040822.D

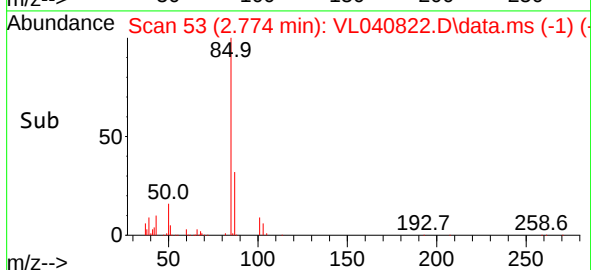
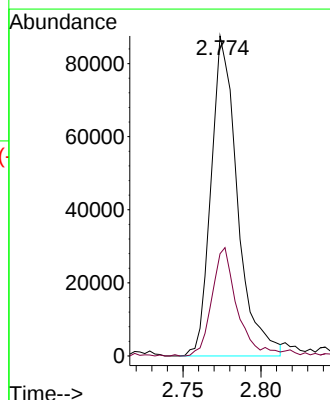
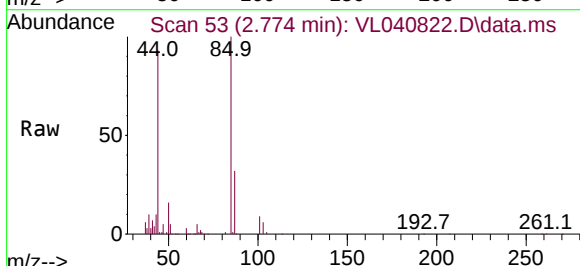
Acq: 8 Nov 2023 22:35

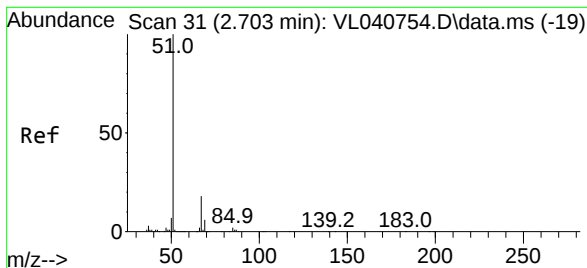
Tgt Ion: 85 Resp: 103136

Ion Ratio Lower Upper

85 100

87 32.0 26.0 39.0





#3

Chlorodifluoromethane

Concen: 0.753 ppbv

RT: 2.719 min Scan# 30

Delta R.T. 0.003 min

Lab File: VL040822.D

Acq: 8 Nov 2023 22:35

Instrument :

MSVOA_L

ClientSampleId :

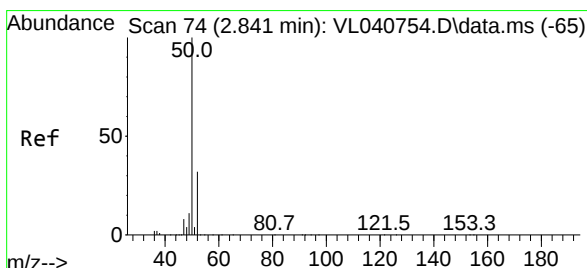
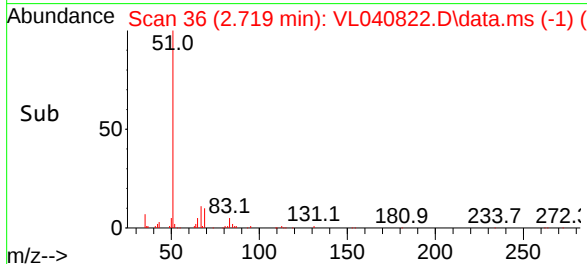
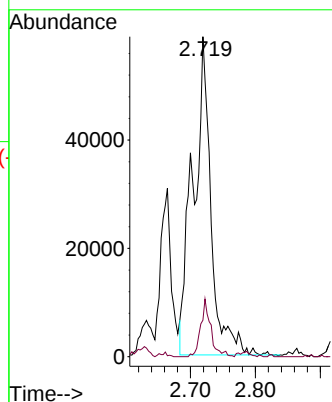
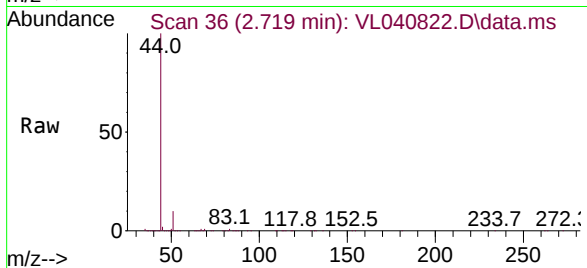
SH-IA-4

Tgt Ion: 51 Resp: 112714

Ion Ratio Lower Upper

51 100

67 10.2 13.8 20.6#



#4

Chloromethane

Concen: 0.427 ppbv

RT: 2.857 min Scan# 79

Delta R.T. 0.003 min

Lab File: VL040822.D

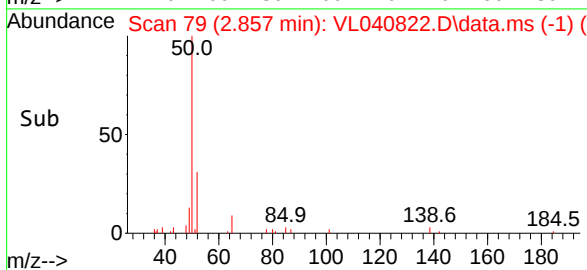
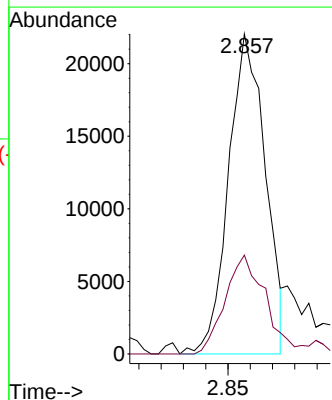
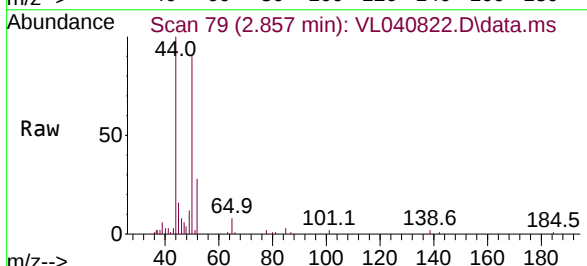
Acq: 8 Nov 2023 22:35

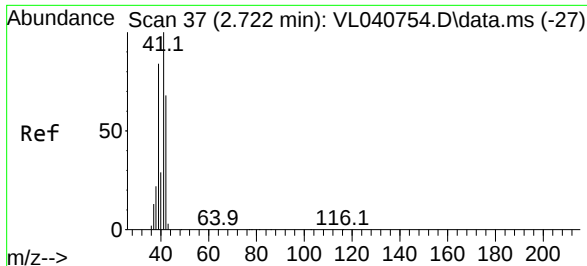
Tgt Ion: 50 Resp: 25263

Ion Ratio Lower Upper

50 100

52 30.9 25.3 37.9

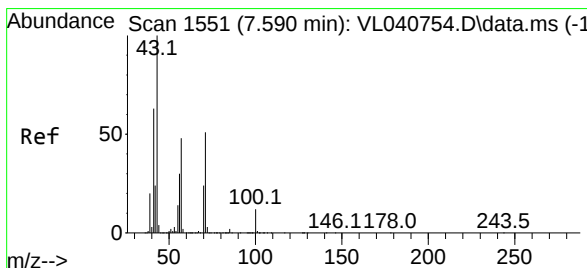
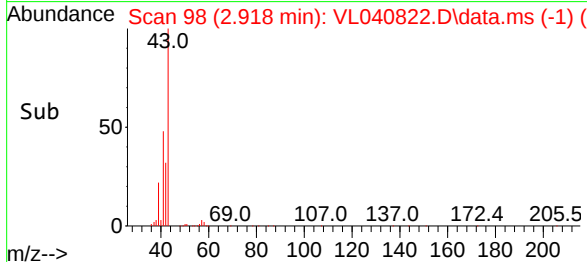
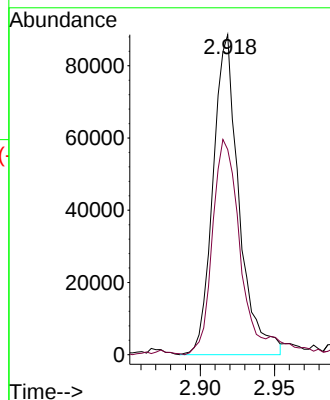
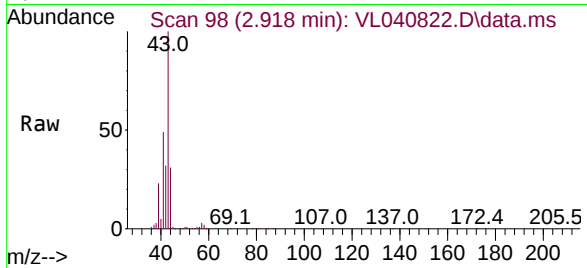




#9
Propene
Concen: 1.938 ppbv
RT: 2.918 min Scan# 91
Delta R.T. 0.183 min
Lab File: VL040822.D
Acq: 8 Nov 2023 22:35

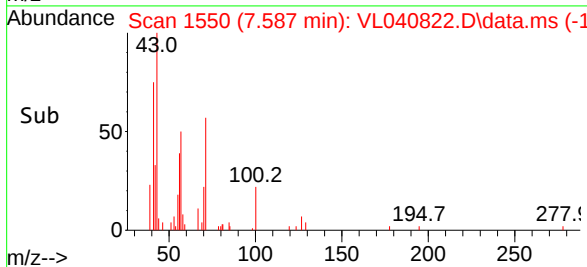
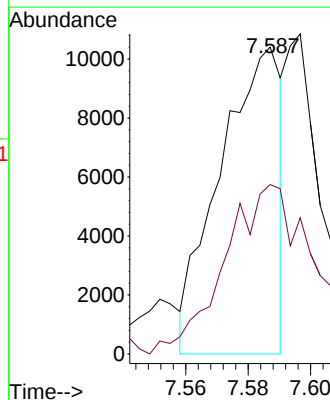
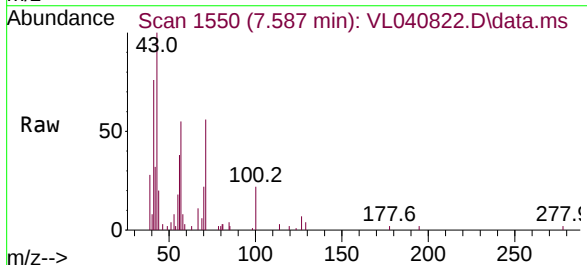
Instrument :
MSVOA_L
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SH-IA-4

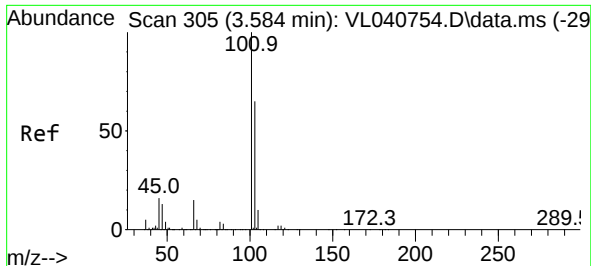
Tgt Ion: 41 Resp: 107746
Ion Ratio Lower Upper
41 100
42 76.0 57.1 85.7



#10
Heptane
Concen: 0.101 ppbv
RT: 7.587 min Scan# 1550
Delta R.T. 0.000 min
Lab File: VL040822.D
Acq: 8 Nov 2023 22:35

Tgt Ion: 43 Resp: 14132
Ion Ratio Lower Upper
43 100
57 85.4 40.0 60.0#

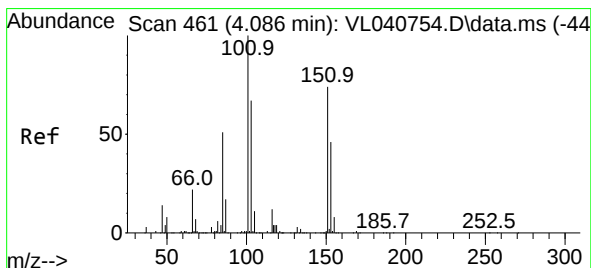
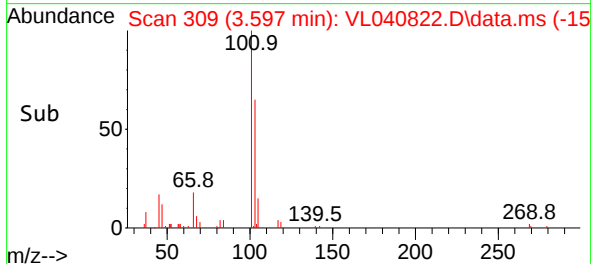
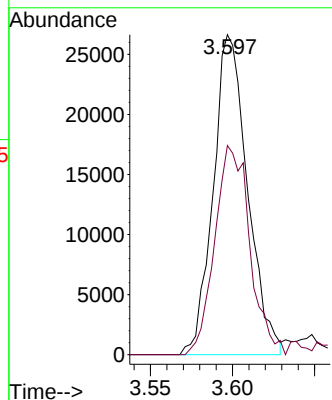
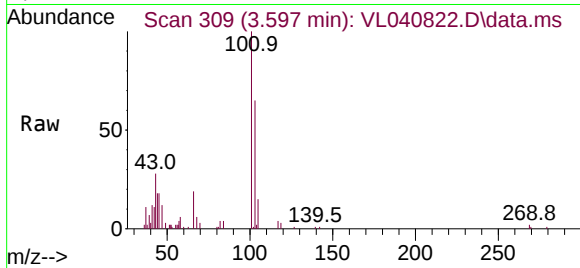




#11
 Trichlorofluoromethane
 Concen: 0.280 ppbv
 RT: 3.597 min Scan# 305
 Delta R.T. 0.003 min
 Lab File: VL040822.D
 Acq: 8 Nov 2023 22:35

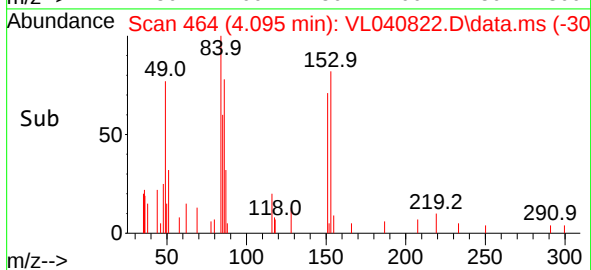
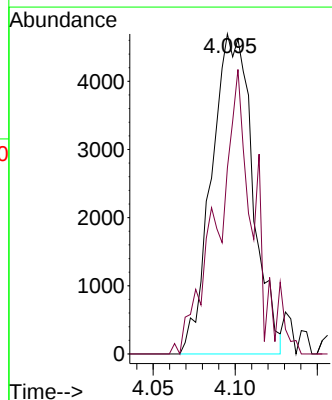
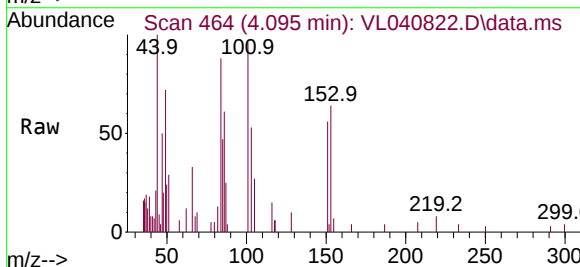
Instrument :
 MSVOA_L
 ClientSampleId :
 SH-IA-4

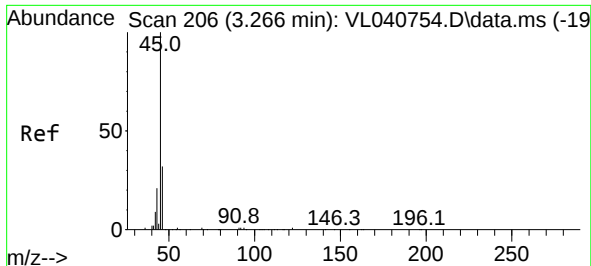
Tgt Ion:101 Resp: 38699
 Ion Ratio Lower Upper
 101 100
 103 65.3 52.2 78.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.083 ppbv
 RT: 4.095 min Scan# 464
 Delta R.T. 0.003 min
 Lab File: VL040822.D
 Acq: 8 Nov 2023 22:35

Tgt Ion:101 Resp: 8194
 Ion Ratio Lower Upper
 101 100
 151 79.0 58.1 87.1

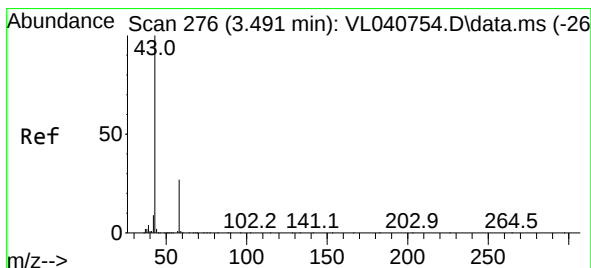
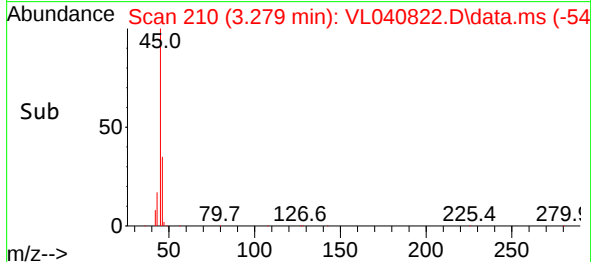
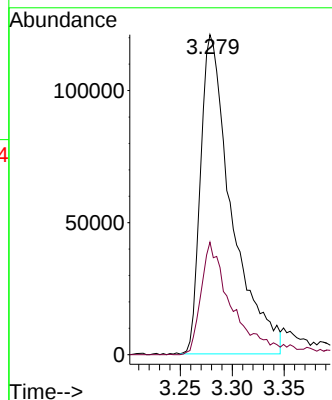
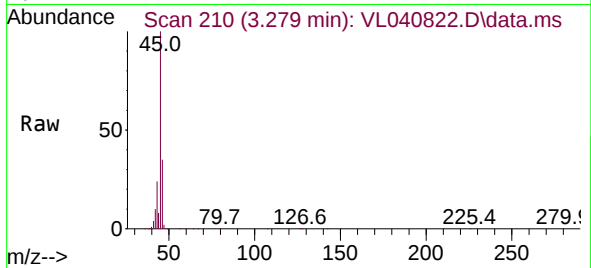




#13
Ethanol
Concen: 19.960 ppbv
RT: 3.279 min Scan# 210
Delta R.T. 0.000 min
Lab File: VL040822.D
Acq: 8 Nov 2023 22:35

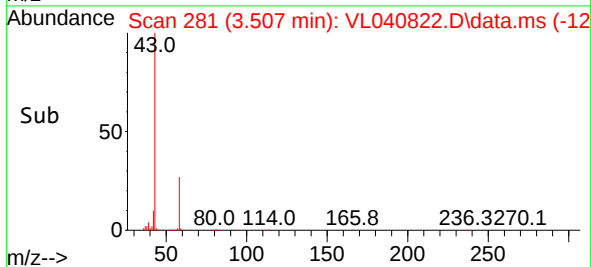
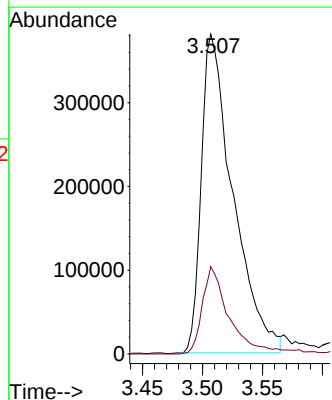
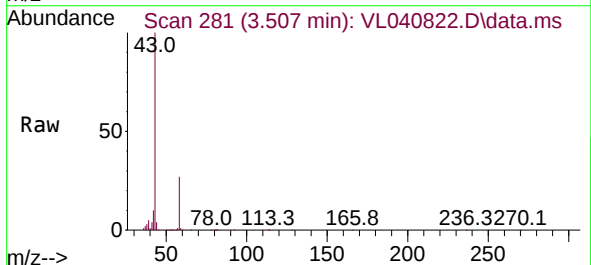
Instrument :
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SH-IA-4

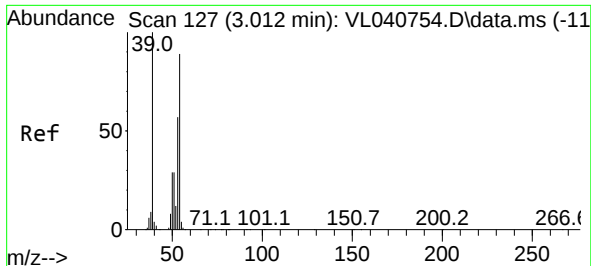
Tgt Ion: 45 Resp: 250493
Ion Ratio Lower Upper
45 100
46 37.2 14.6 58.2



#15
Acetone
Concen: 6.656 ppbv
RT: 3.507 min Scan# 281
Delta R.T. 0.006 min
Lab File: VL040822.D
Acq: 8 Nov 2023 22:35

Tgt Ion: 43 Resp: 700844
Ion Ratio Lower Upper
43 100
58 24.0 21.6 32.4

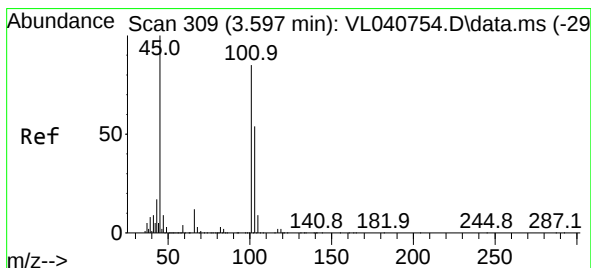
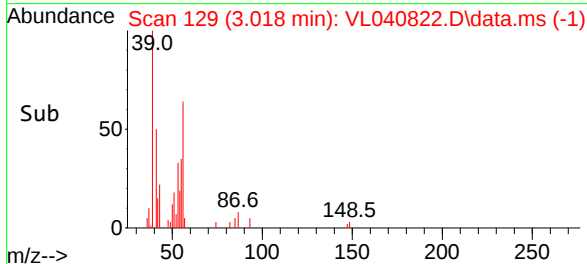
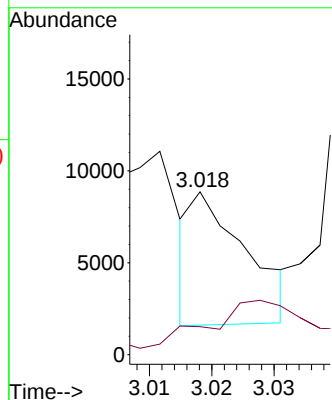
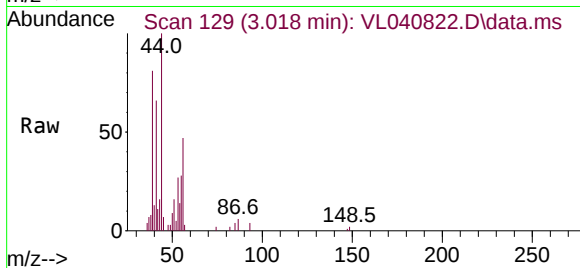




#16
1,3-Butadiene
Concen: 0.081 ppbv
RT: 3.018 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL040822.D
Acq: 8 Nov 2023 22:35

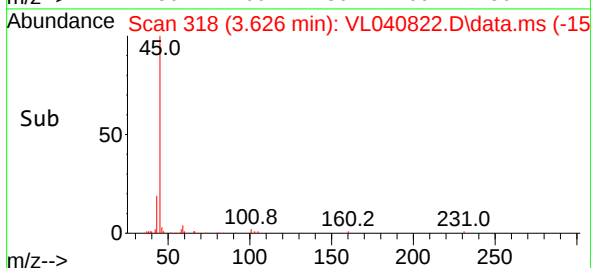
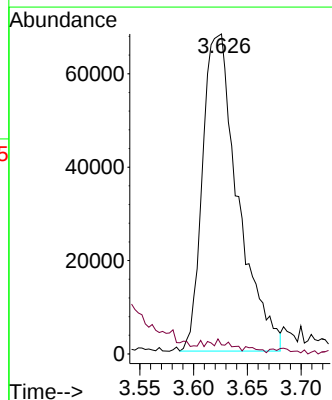
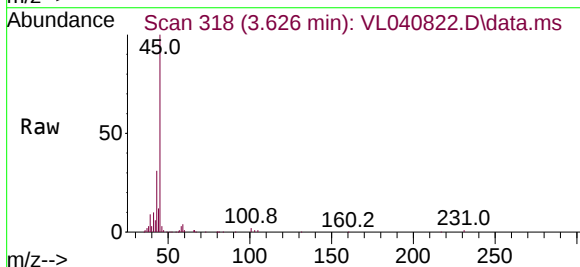
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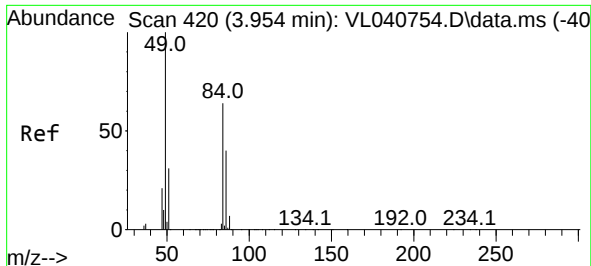
Tgt Ion: 39 Resp: 4457
Ion Ratio Lower Upper
39 100
54 122.2 63.0 94.6#



#19
Isopropyl Alcohol
Concen: 2.296 ppbv
RT: 3.626 min Scan# 318
Delta R.T. 0.019 min
Lab File: VL040822.D
Acq: 8 Nov 2023 22:35

Tgt Ion: 45 Resp: 155591
Ion Ratio Lower Upper
45 100
58 108.1 30.3 45.5#

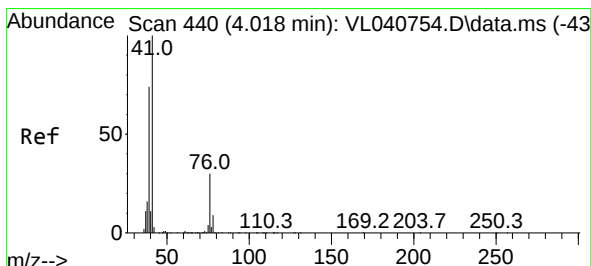
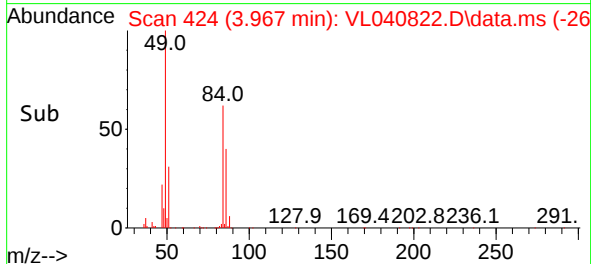
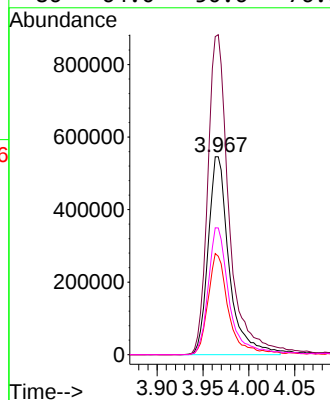
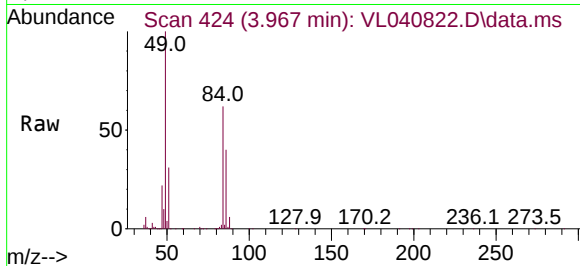




#20
Methylene Chloride
Concen: 19.861 ppbv
RT: 3.967 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL040822.D
Acq: 8 Nov 2023 22:35

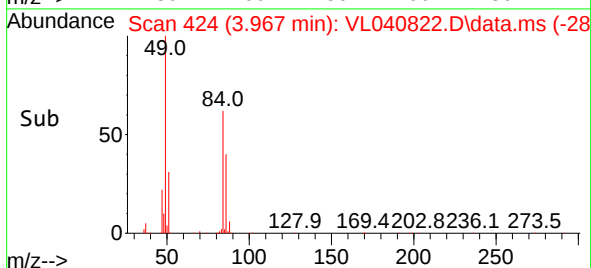
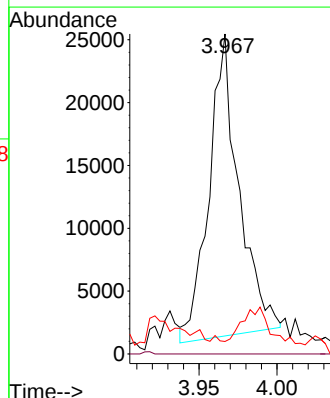
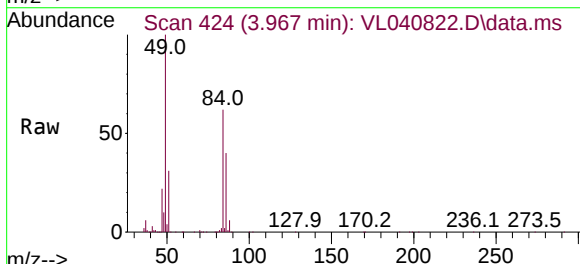
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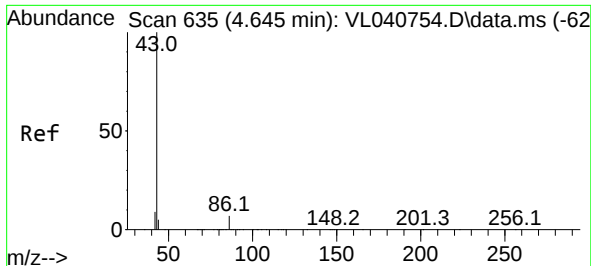
Tgt Ion: 84 Resp: 871018
Ion Ratio Lower Upper
84 100
49 161.5 125.6 188.4
51 49.7 38.9 58.3
86 64.0 50.6 76.0



#21
Allyl Chloride
Concen: 0.459 ppbv
RT: 3.967 min Scan# 424
Delta R.T. -0.055 min
Lab File: VL040822.D
Acq: 8 Nov 2023 22:35

Tgt Ion: 41 Resp: 31887
Ion Ratio Lower Upper
41 100
76 0.8 24.1 36.1#
39 16.7 63.8 95.6#

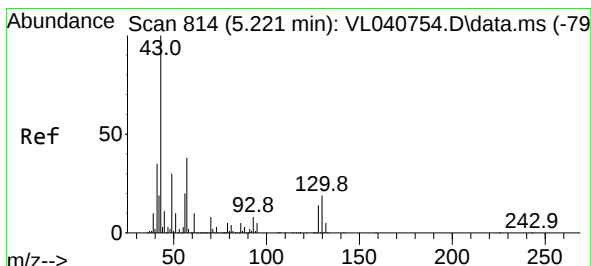
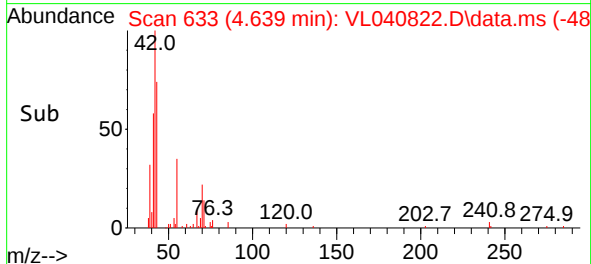
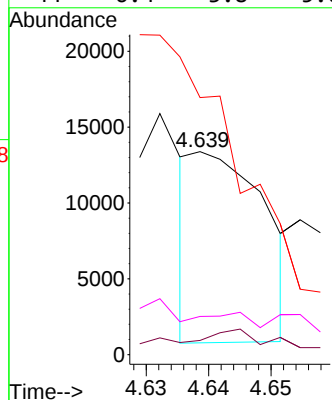
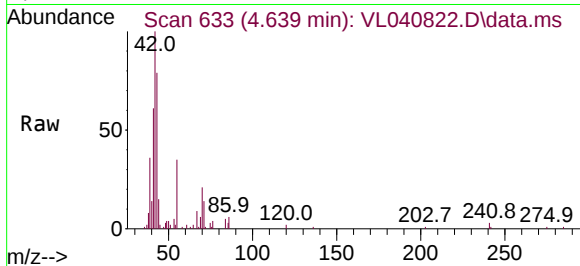




#23
 Vinyl Acetate
 Concen: 0.076 ppbv
 RT: 4.639 min Scan# 61
 Delta R.T. -0.010 min
 Lab File: VL040822.D
 Acq: 8 Nov 2023 22:35

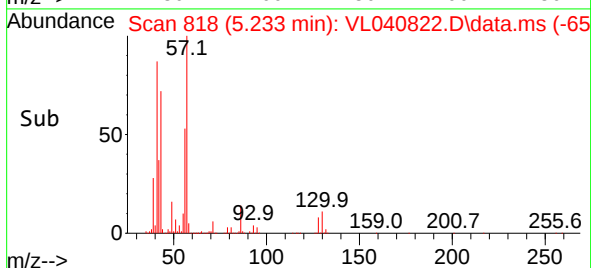
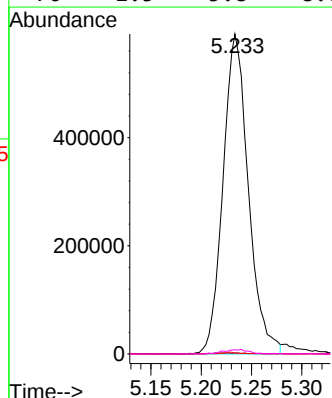
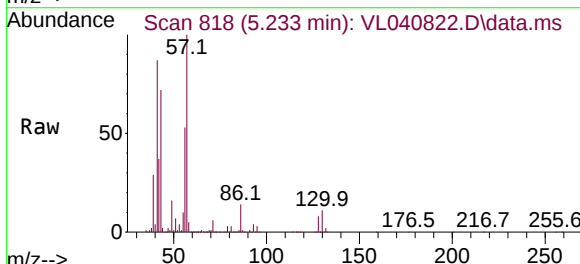
Instrument :
 MSVOA_L
 ClientSampleId :
 SH-IA-4

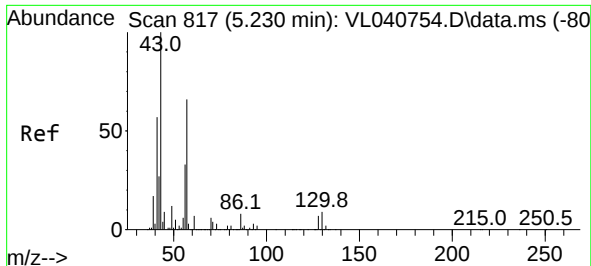
Tgt Ion:	43	Resp:	10170
Ion	Ratio	Lower	Upper
43	100		
86	2.6	4.9	7.3#
42	153.9	7.8	11.6#
44	6.4	3.8	5.6#



#25
 Ethyl Acetate
 Concen: 4.494 ppbv
 RT: 5.233 min Scan# 818
 Delta R.T. 0.013 min
 Lab File: VL040822.D
 Acq: 8 Nov 2023 22:35

Tgt Ion:	43	Resp:	1036698
Ion	Ratio	Lower	Upper
43	100		
45	0.5	8.2	12.4#
61	0.4	8.2	12.2#
70	1.5	5.8	8.6#

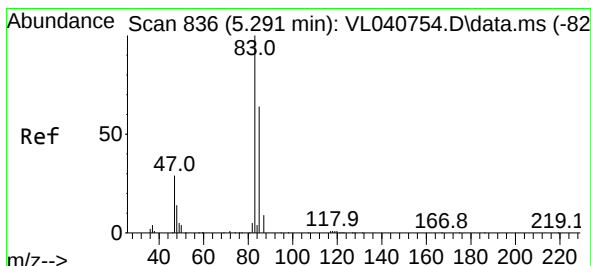
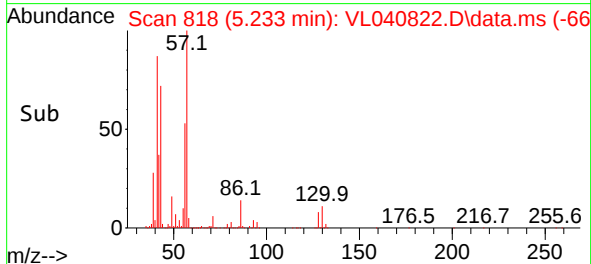
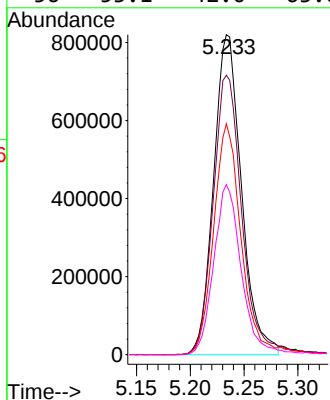
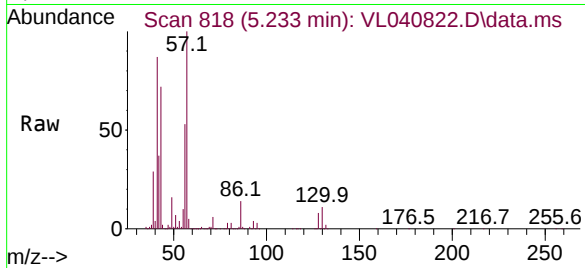




#26
Hexane
Concen: 14.023 ppbv
RT: 5.233 min Scan# 817
Delta R.T. 0.006 min
Lab File: VL040822.D
Acq: 8 Nov 2023 22:35

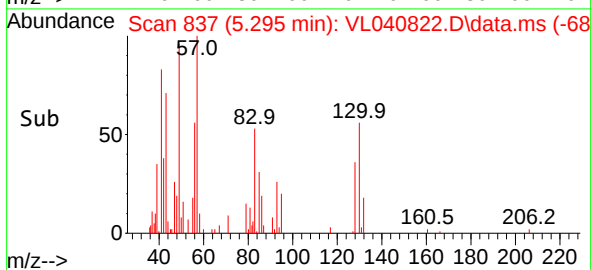
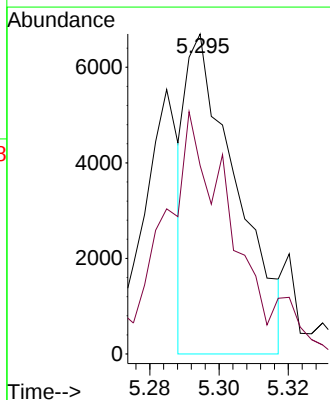
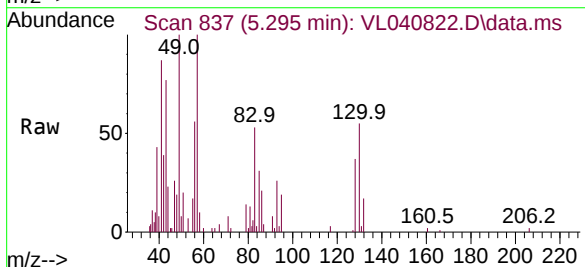
Instrument :
MSVOA_L
ClientSampleId :
SH-IA-4

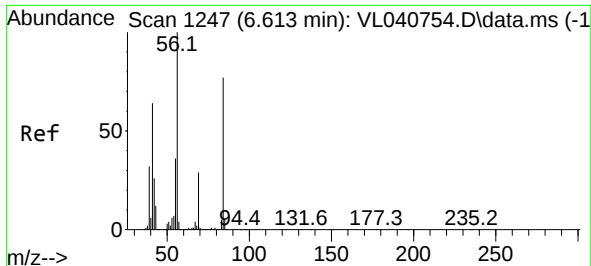
Tgt Ion: 57 Resp: 1478523
Ion Ratio Lower Upper
57 100
41 91.0 71.4 107.2
43 72.1 182.3 273.5#
56 53.1 42.0 63.0



#29
Chloroform
Concen: 0.044 ppbv
RT: 5.295 min Scan# 837
Delta R.T. 0.003 min
Lab File: VL040822.D
Acq: 8 Nov 2023 22:35

Tgt Ion: 83 Resp: 6761
Ion Ratio Lower Upper
83 100
85 54.2 51.3 76.9

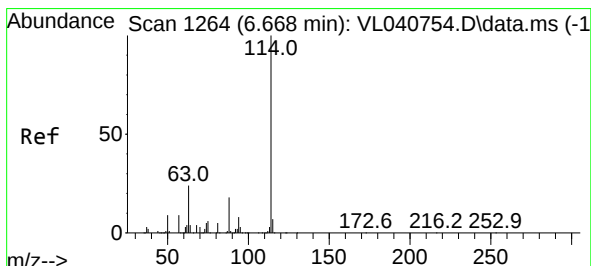
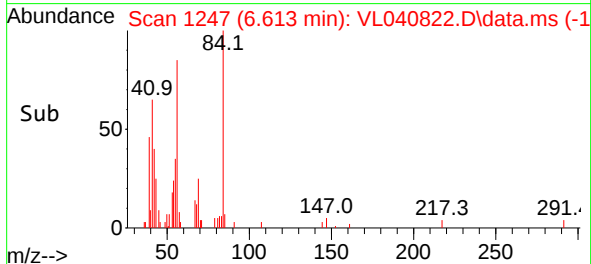
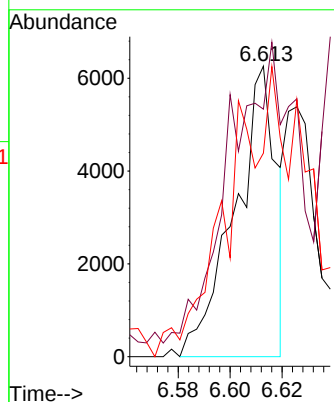
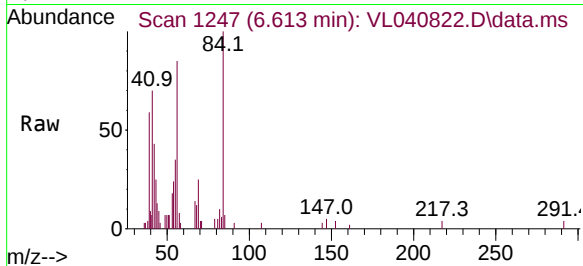




#30
Cyclohexane
Concen: 0.077 ppbv
RT: 6.613 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL040822.D
Acq: 8 Nov 2023 22:35

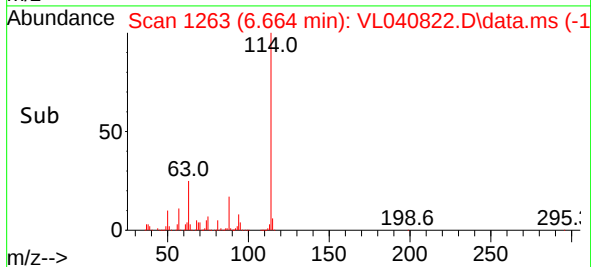
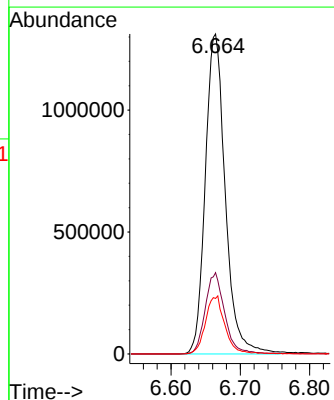
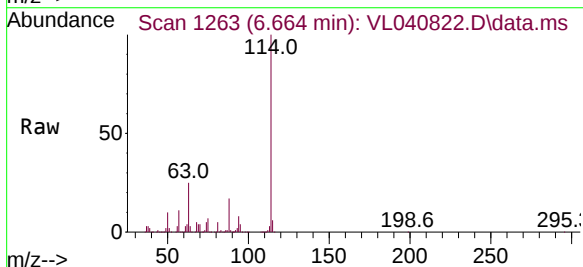
Instrument :
MSVOA_L
ClientSampleId :
SH-IA-4

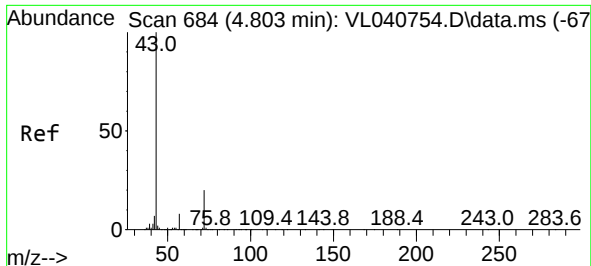
Tgt Ion: 84 Resp: 6944
Ion Ratio Lower Upper
84 100
56 0.0 110.3 165.5#
41 174.1 67.4 101.2#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.664 min Scan# 1263
Delta R.T. 0.000 min
Lab File: VL040822.D
Acq: 8 Nov 2023 22:35

Tgt Ion:114 Resp: 2625984
Ion Ratio Lower Upper
114 100
63 25.0 19.8 29.6
88 17.7 14.2 21.2

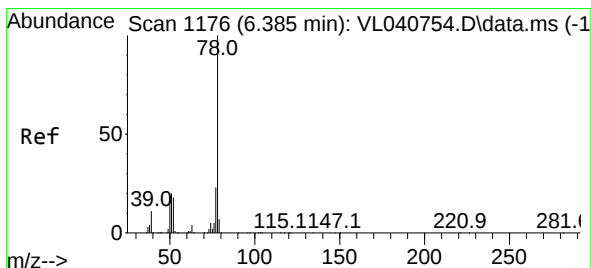
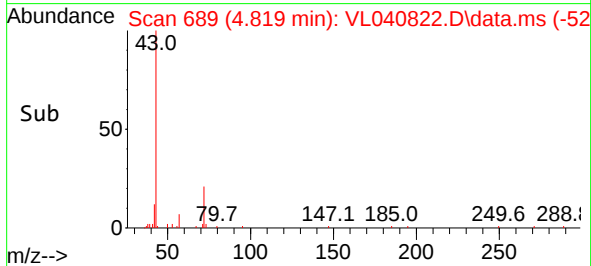
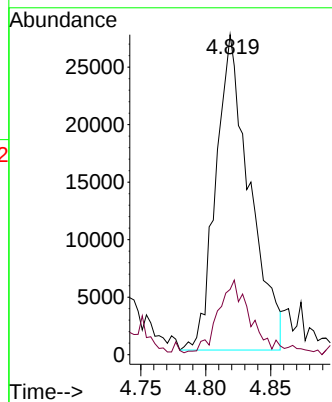
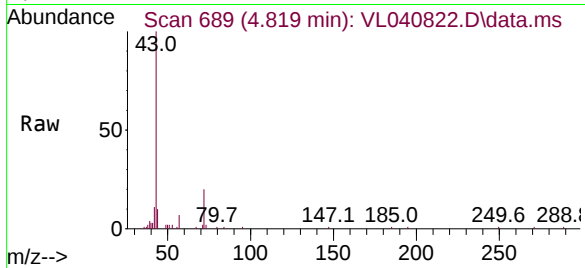




#34
2-Butanone
Concen: 0.418 ppbv
RT: 4.819 min Scan# 61
Delta R.T. 0.013 min
Lab File: VL040822.D
Acq: 8 Nov 2023 22:35

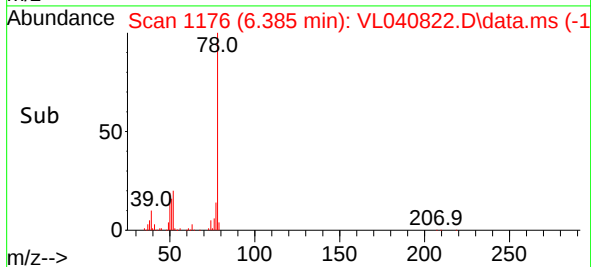
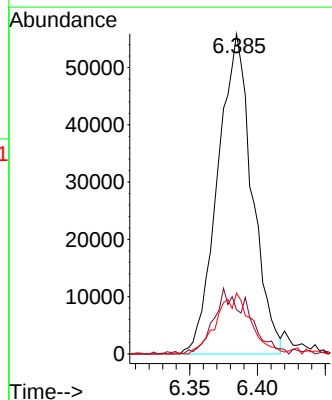
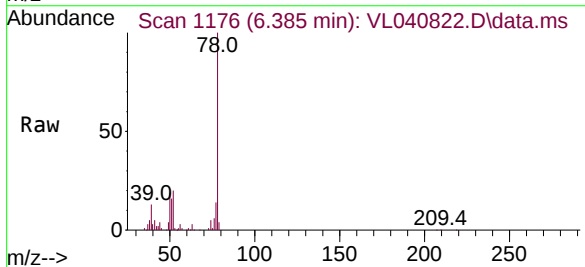
Instrument :
MSVOA_L
ClientSampleId :
SH-IA-4

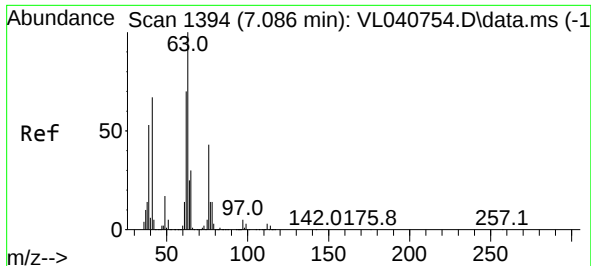
Tgt Ion: 43 Resp: 49628
Ion Ratio Lower Upper
43 100
72 25.9 16.8 25.2#



#36
Benzene
Concen: 0.488 ppbv
RT: 6.385 min Scan# 1176
Delta R.T. 0.003 min
Lab File: VL040822.D
Acq: 8 Nov 2023 22:35

Tgt Ion: 78 Resp: 98623
Ion Ratio Lower Upper
78 100
77 13.8 18.4 27.6#
50 18.7 15.0 22.4





#39

1,2-Dichloropropane

Concen: 8.067 ppbv

RT: 6.664 min Scan# 1

Delta R.T. -0.418 min

Lab File: VL040822.D

Acq: 8 Nov 2023 22:35

Instrument :

MSVOA_L

ClientSampleId :

SH-IA-4

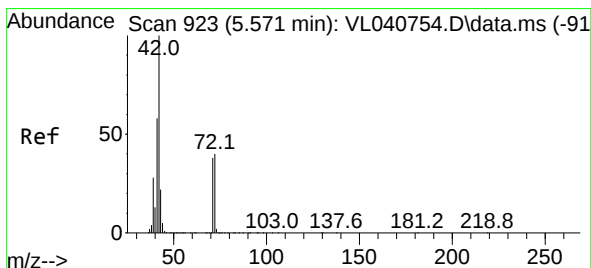
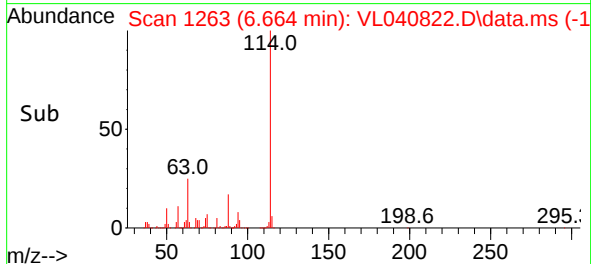
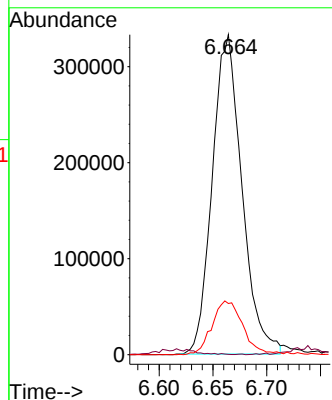
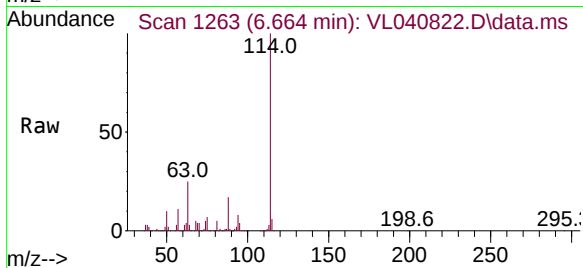
Tgt Ion: 63 Resp: 636554

Ion Ratio Lower Upper

63 100

41 0.0 53.7 80.5#

62 15.9 55.7 83.5#



#41

Tetrahydrofuran

Concen: 6.683 ppbv

RT: 5.233 min Scan# 818

Delta R.T. -0.338 min

Lab File: VL040822.D

Acq: 8 Nov 2023 22:35

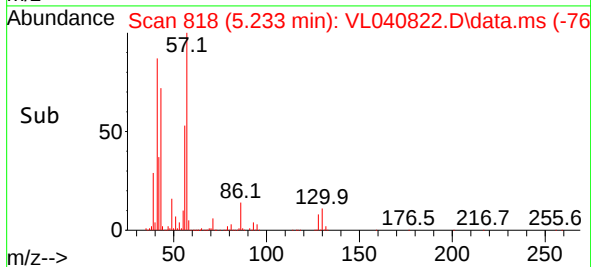
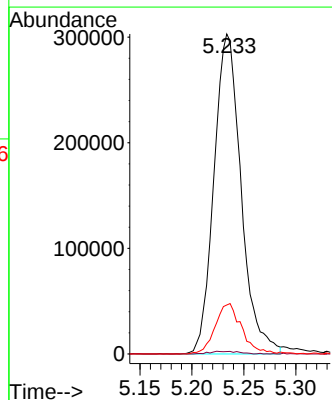
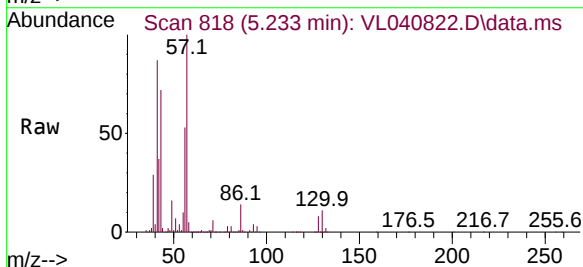
Tgt Ion: 42 Resp: 550129

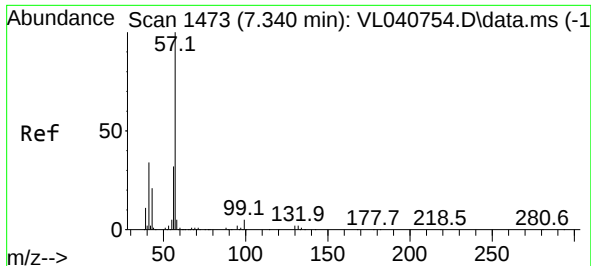
Ion Ratio Lower Upper

42 100

72 1.0 31.1 46.7#

71 15.6 29.7 44.5#

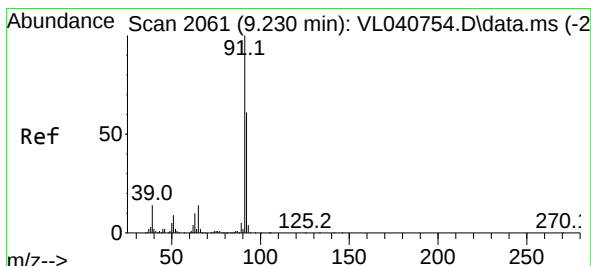
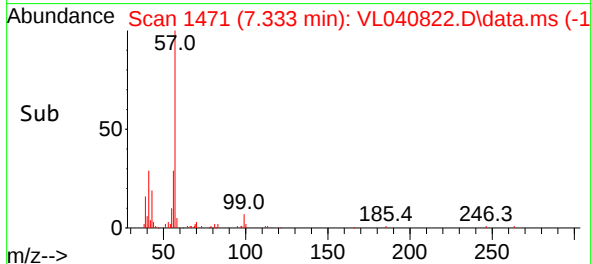
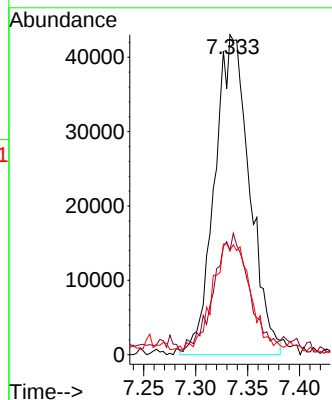
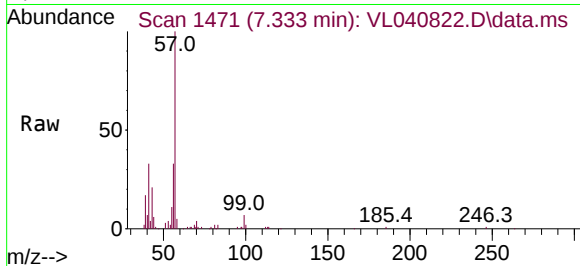




#44
2,2,4-Trimethylpentane
Concen: 0.295 ppbv
RT: 7.333 min Scan# 1473
Delta R.T. 0.000 min
Lab File: VL040822.D
Acq: 8 Nov 2023 22:35

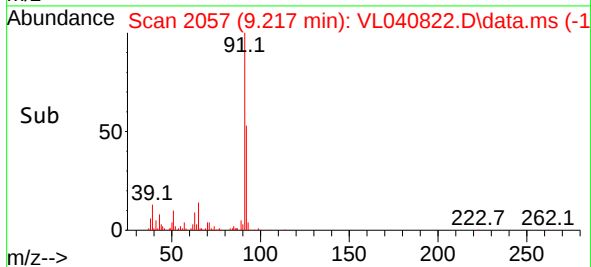
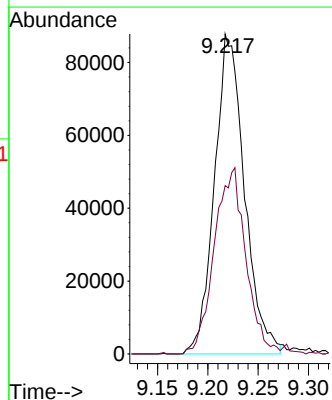
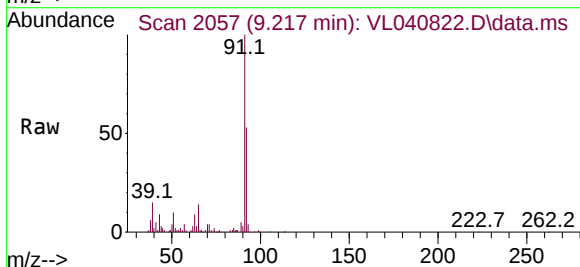
Instrument :
MSVOA_L
ClientSampleId :
SH-IA-4

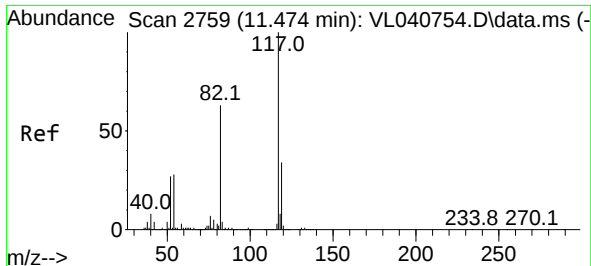
Tgt Ion: 57 Resp: 100891
Ion Ratio Lower Upper
57 100
41 43.8 27.4 41.0#
56 42.0 25.0 37.6#



#53
Toluene
Concen: 0.757 ppbv
RT: 9.217 min Scan# 2057
Delta R.T. -0.003 min
Lab File: VL040822.D
Acq: 8 Nov 2023 22:35

Tgt Ion: 91 Resp: 181950
Ion Ratio Lower Upper
91 100
92 62.1 50.2 75.2

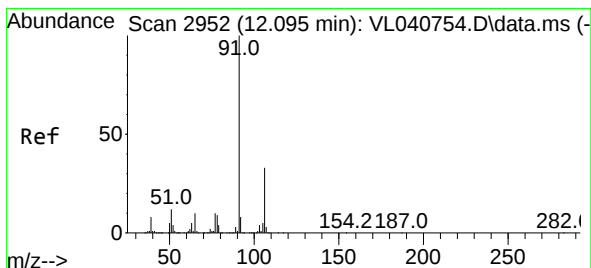
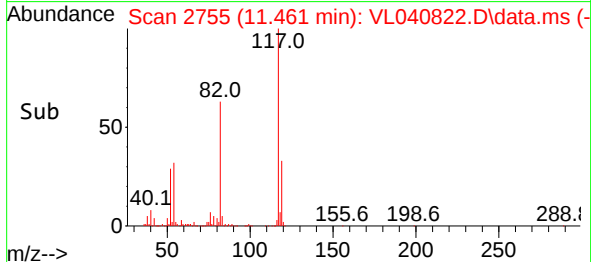
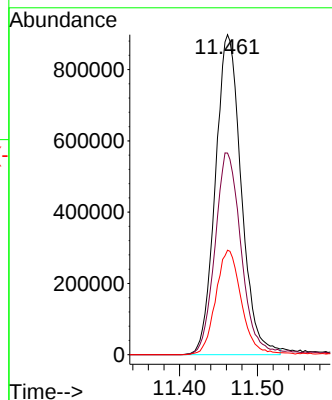
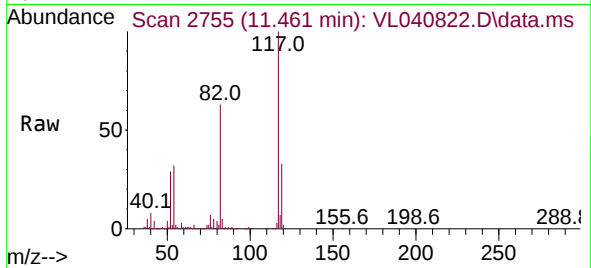




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.461 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL040822.D
Acq: 8 Nov 2023 22:35

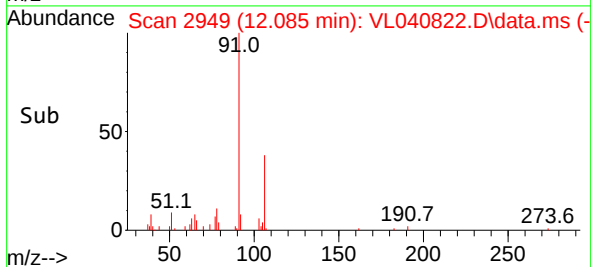
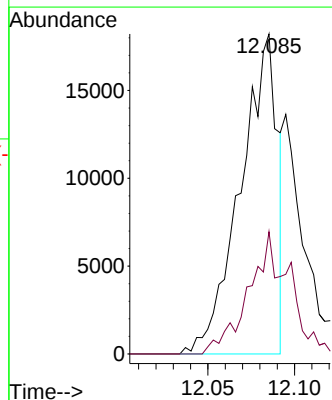
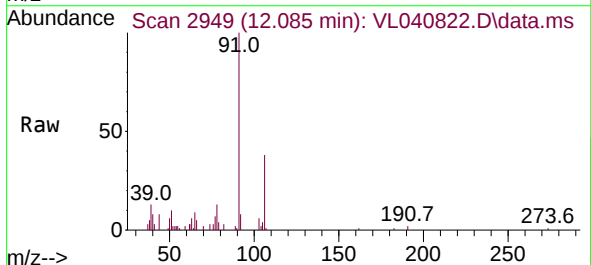
Instrument :
MSVOA_L
ClientSampleId :
SH-IA-4

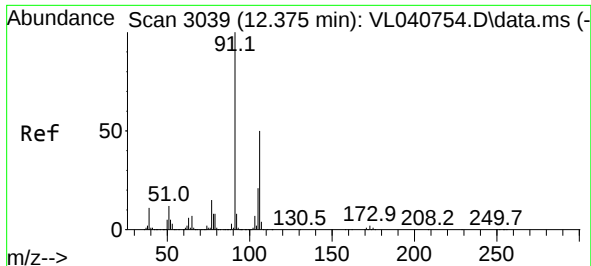
Tgt Ion:117 Resp: 2076906
Ion Ratio Lower Upper
117 100
82 65.1 46.6 70.0
119 32.5 26.0 39.0



#58
Ethyl Benzene
Concen: 0.103 ppbv
RT: 12.085 min Scan# 2949
Delta R.T. 0.003 min
Lab File: VL040822.D
Acq: 8 Nov 2023 22:35

Tgt Ion: 91 Resp: 26996
Ion Ratio Lower Upper
91 100
106 38.2 26.7 40.1





#59

m/p-Xylene

Concen: 0.068 ppbv

RT: 12.375 min Scan# 3039

Delta R.T. 0.006 min

Lab File: VL040822.D

Acq: 8 Nov 2023 22:35

Instrument :

MSVOA_1

ClientSampleId :

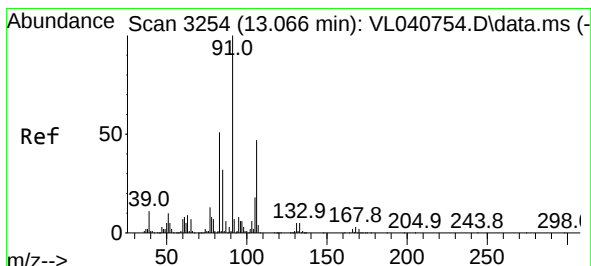
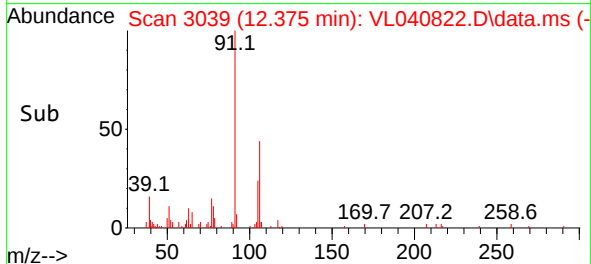
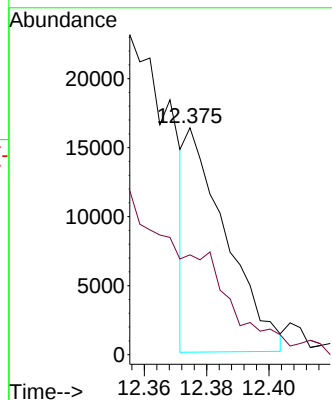
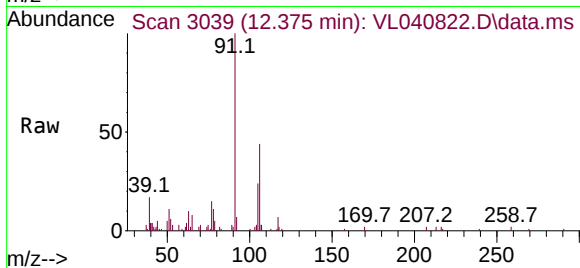
SH-IA-4

Tgt Ion: 91 Resp: 14622

Ion Ratio Lower Upper

91 100

106 0.0 37.7 56.5#



#60

o-Xylene

Concen: 0.112 ppbv

RT: 13.053 min Scan# 3250

Delta R.T. 0.000 min

Lab File: VL040822.D

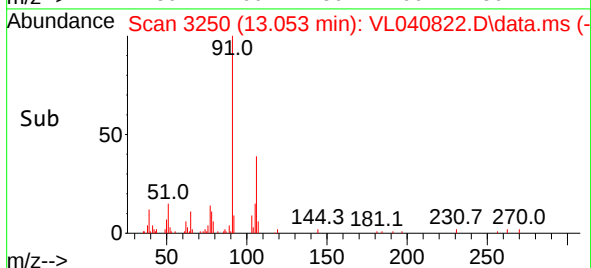
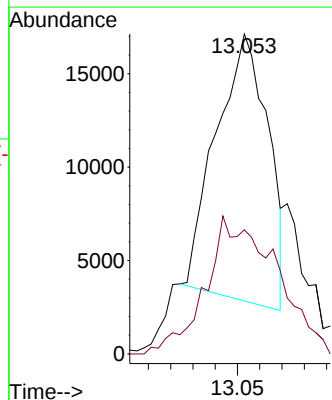
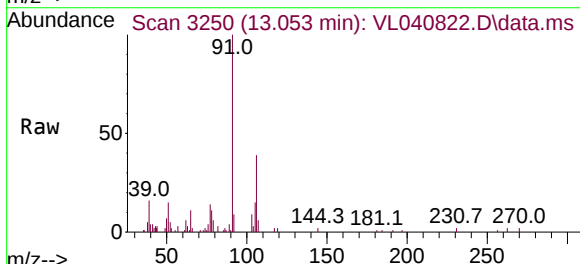
Acq: 8 Nov 2023 22:35

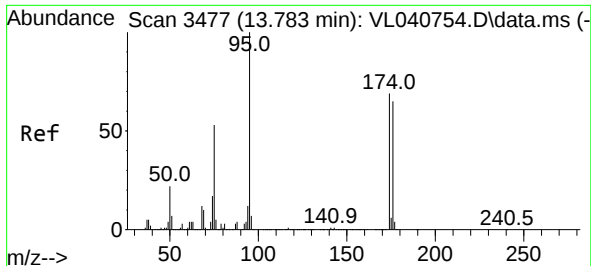
Tgt Ion: 91 Resp: 22991

Ion Ratio Lower Upper

91 100

106 74.1 23.5 70.5#

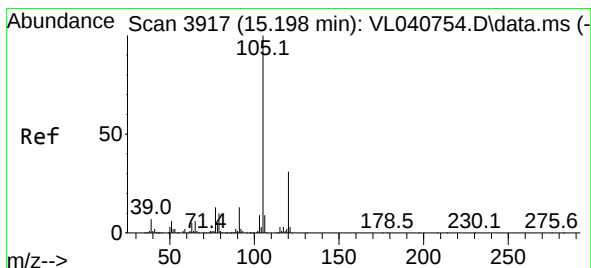
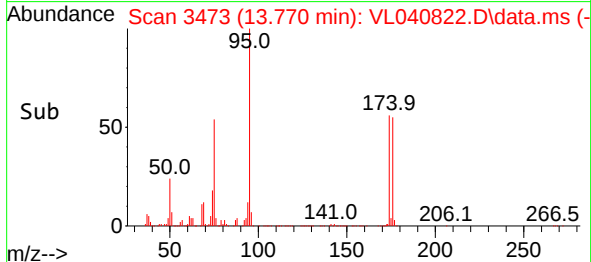
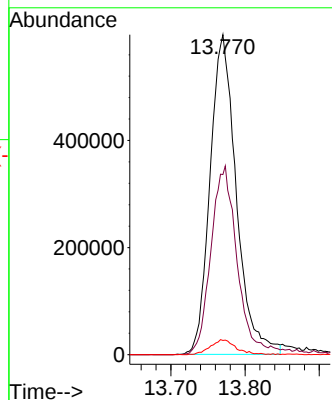
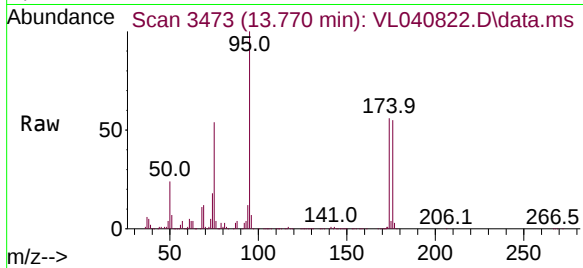




#68
1-Bromo-4-Fluorobenzene
Concen: 9.587 ppbv
RT: 13.770 min Scan# 3477
Delta R.T. 0.000 min
Lab File: VL040822.D
Acq: 8 Nov 2023 22:35

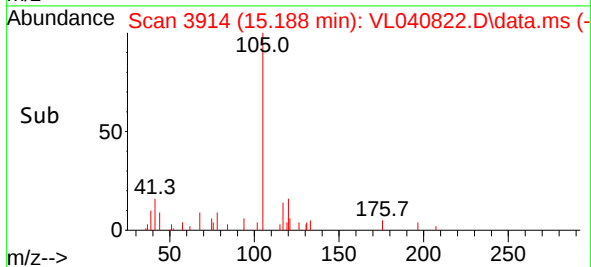
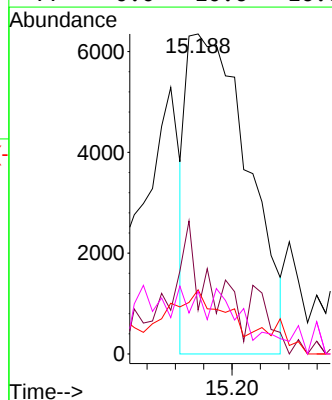
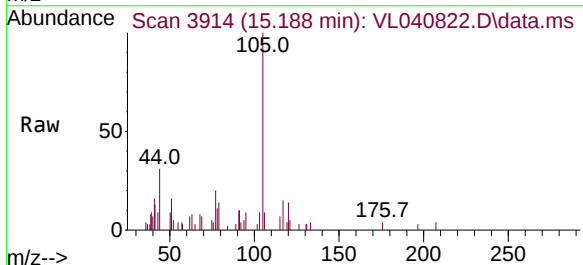
Instrument :
MSVOA_L
ClientSampleId :
SH-IA-4

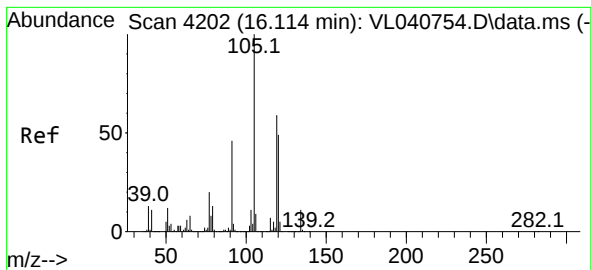
Tgt Ion: 95 Resp: 1465100
Ion Ratio Lower Upper
95 100
174 61.0 54.7 82.1
175 4.6 4.2 6.4



#72
4-Ethyltoluene
Concen: 0.040 ppbv
RT: 15.188 min Scan# 3914
Delta R.T. 0.003 min
Lab File: VL040822.D
Acq: 8 Nov 2023 22:35

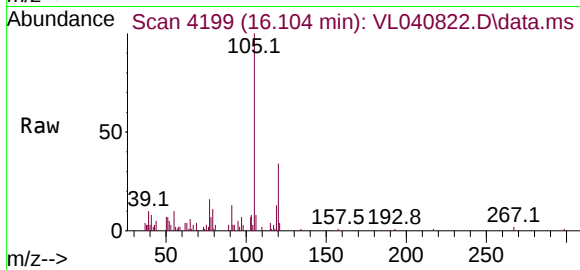
Tgt Ion: 105 Resp: 9572
Ion Ratio Lower Upper
105 100
120 38.4 25.0 37.4#
91 24.7 9.8 14.8#
77 0.0 10.6 16.0#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.054 ppbv
 RT: 16.104 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL040822.D
 Acq: 8 Nov 2023 22:35

Instrument :
 MSVOA_L
 ClientSampleId :
 SH-IA-4



Tgt Ion:	105	Resp:	12560
Ion	Ratio	Lower	Upper
105	100		
120	0.0	39.4	59.2#
91	19.6	38.6	58.0#
77	14.8	16.6	25.0#

