

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011923\
 Data File : VL040115.D
 Acq On : 19 Jan 2023 16:14
 Operator : SY/MD
 Sample : 01223-03 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-3

Quant Time: Jan 20 02:07:45 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)

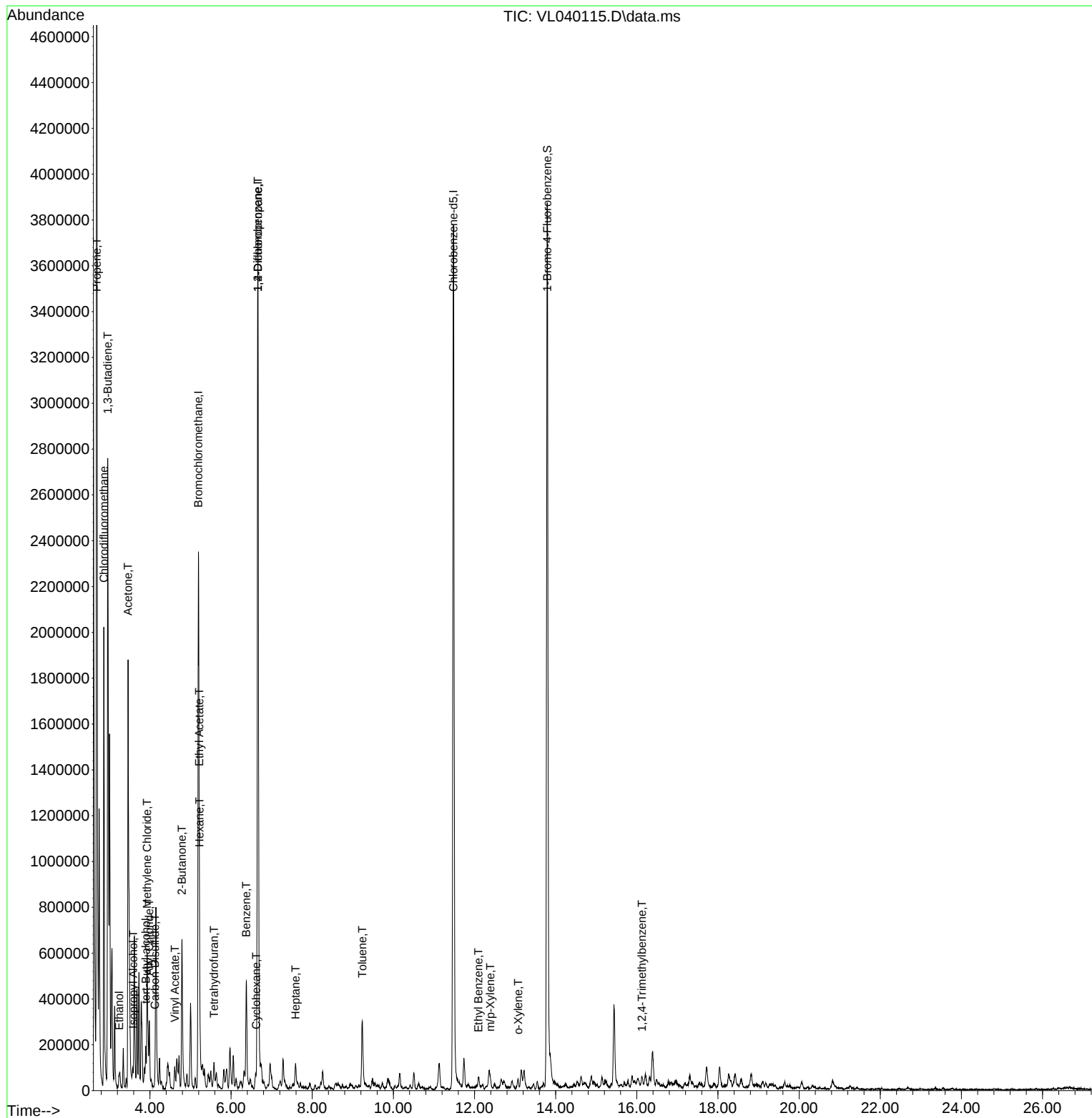
Internal Standards						
1) Bromochloromethane	5.195	49	1105984	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	2855511	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.481	117	2582687	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.793	95	2034328	9.478	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.800%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	2.864	51	8233	0.062	ppbv #	57
9) Propene	2.687	41	2308790	41.890	ppbv	94
10) Heptane	7.590	43	47075	0.371	ppbv	96
13) Ethanol	3.243	45	72035	14.200	ppbv	94
15) Acetone	3.462	43	2037974	15.365	ppbv	91
16) 1,3-Butadiene	2.960	39	962121	15.558	ppbv #	44
17) tert-Butyl alcohol	3.899	59	11124	0.090	ppbv #	72
19) Isopropyl Alcohol	3.587	45	25687	0.396	ppbv #	90
20) Methylene Chloride	3.931	84	186946	3.195	ppbv	88
21) Allyl Chloride	3.983	41	26031	0.306	ppbv #	1
23) Vinyl Acetate	4.613	43	23475	0.546	ppbv #	1
25) Ethyl Acetate	5.214	43	203156	0.869	ppbv #	86
26) Hexane	5.221	57	215425	2.107	ppbv #	47
27) Carbon Disulfide	4.127	76	38526	0.291	ppbv #	88
30) Cyclohexane	6.619	84	10279	0.126	ppbv #	1
34) 2-Butanone	4.790	43	782619	5.794	ppbv	99
36) Benzene	6.375	78	401237	1.899	ppbv	95
39) 1,2-Dichloropropane	6.658	63	707917	8.565	ppbv #	22
41) Tetrahydrofuran	5.578	42	67465	0.865	ppbv	97
53) Toluene	9.237	91	116313	0.516	ppbv #	21
58) Ethyl Benzene	12.098	91	22746	0.079	ppbv	99
59) m/p-Xylene	12.388	91	18560	0.072	ppbv #	33
60) o-Xylene	13.076	91	16841	0.068	ppbv #	40
74) 1,2,4-Trimethylbenzene	16.124	105	24419	0.090	ppbv #	57

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

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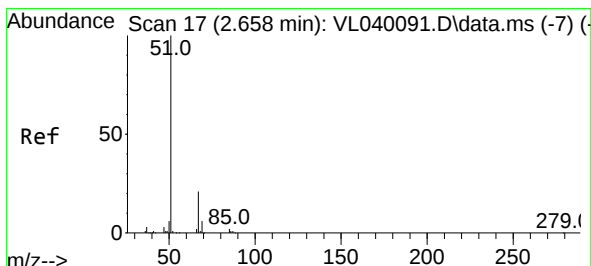
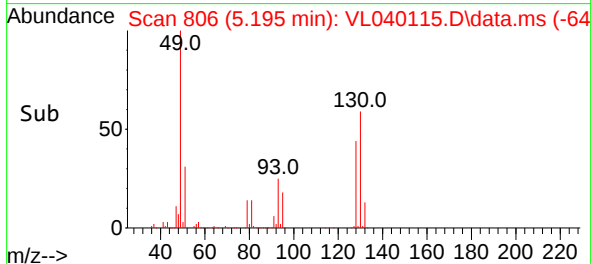
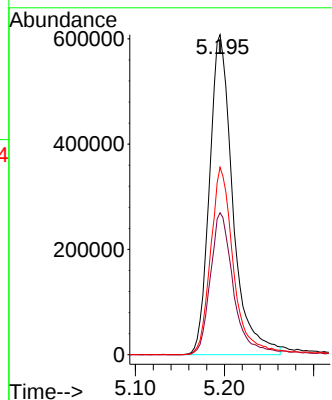
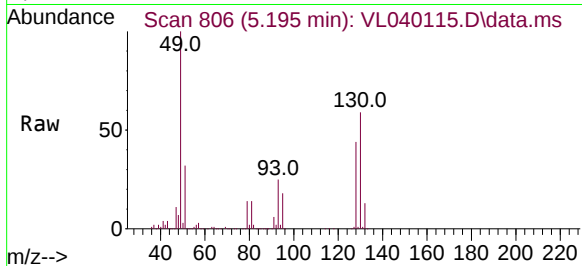




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.195 min Scan# 80
Delta R.T. 0.010 min
Lab File: VL040115.D
Acq: 19 Jan 2023 16:14

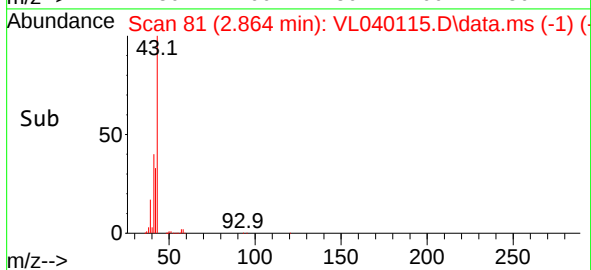
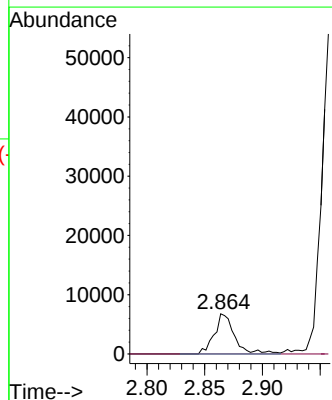
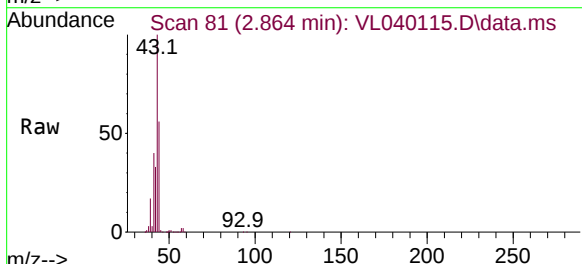
Instrument :
MSVOA_L
ClientSampleId :
VP-3

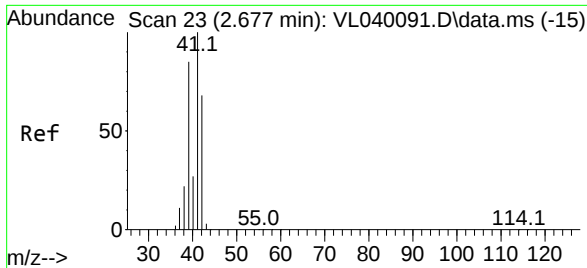
Tgt Ion: 49 Resp: 1105984
Ion Ratio Lower Upper
49 100
128 45.0 23.6 71.0
130 59.5 29.8 89.3



#3
Chlorodifluoromethane
Concen: 0.062 ppbv
RT: 2.864 min Scan# 81
Delta R.T. 0.206 min
Lab File: VL040115.D
Acq: 19 Jan 2023 16:14

Tgt Ion: 51 Resp: 8233
Ion Ratio Lower Upper
51 100
67 0.7 16.4 24.6#

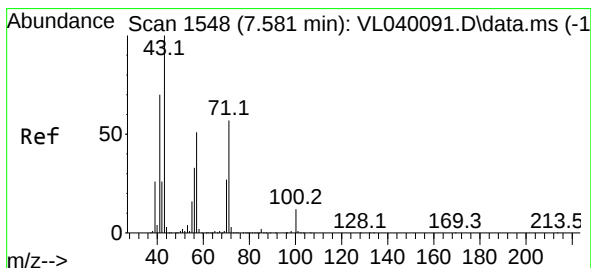
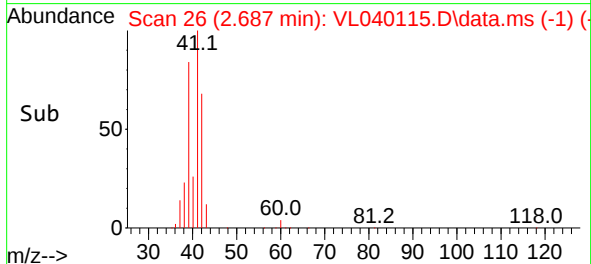
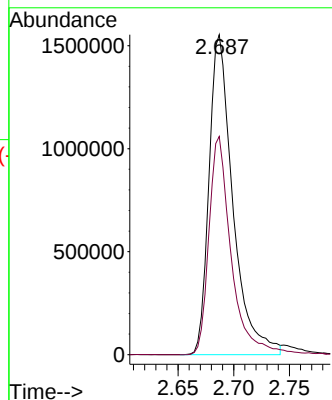
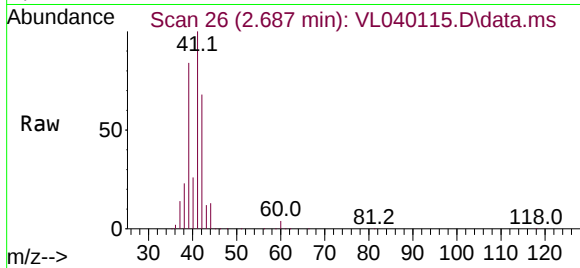




#9
 Propene
 Concen: 41.890 ppbv
 RT: 2.687 min Scan# 21
 Delta R.T. 0.010 min
 Lab File: VL040115.D
 Acq: 19 Jan 2023 16:14

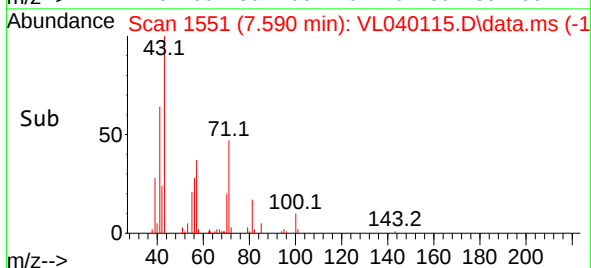
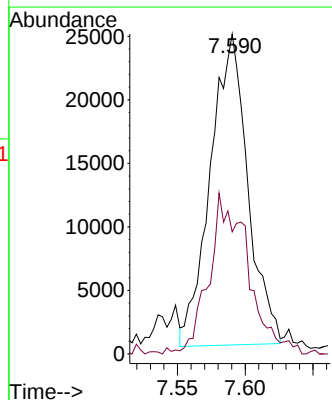
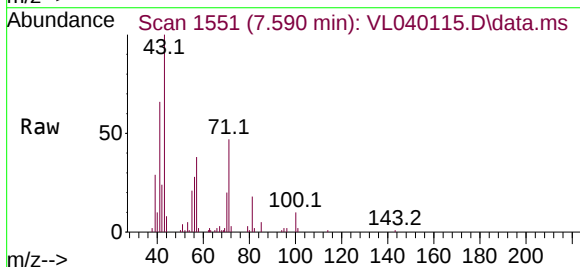
Instrument :
 MSVOA_L
 ClientSampleId :
 VP-3

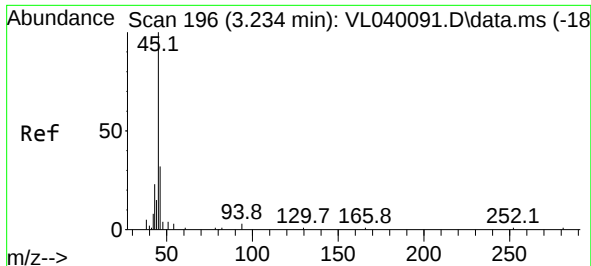
Tgt Ion: 41 Resp: 2308790
 Ion Ratio Lower Upper
 41 100
 42 64.3 55.6 83.4



#10
 Heptane
 Concen: 0.371 ppbv
 RT: 7.590 min Scan# 1551
 Delta R.T. 0.010 min
 Lab File: VL040115.D
 Acq: 19 Jan 2023 16:14

Tgt Ion: 43 Resp: 47075
 Ion Ratio Lower Upper
 43 100
 57 54.1 40.9 61.3

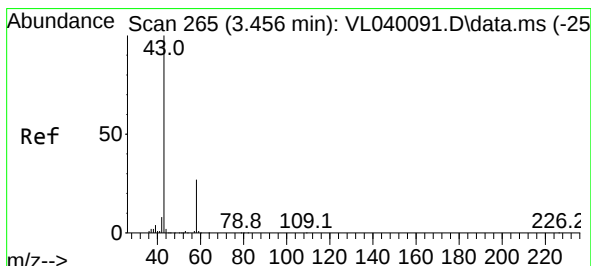
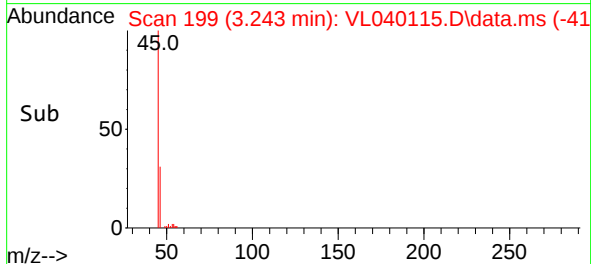
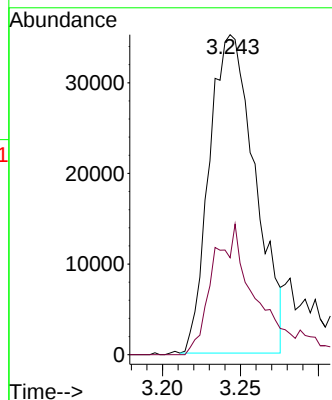
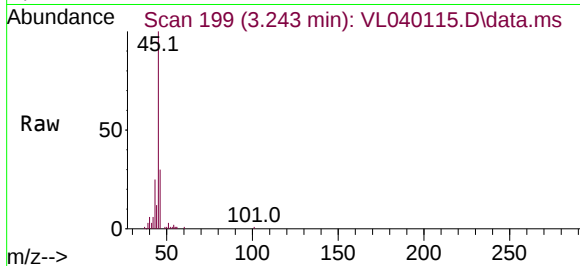




#13
Ethanol
Concen: 14.200 ppbv
RT: 3.243 min Scan# 199
Delta R.T. 0.010 min
Lab File: VL040115.D
Acq: 19 Jan 2023 16:14

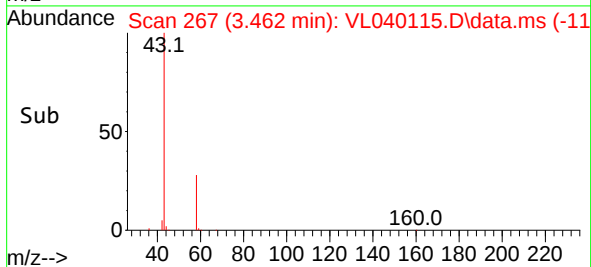
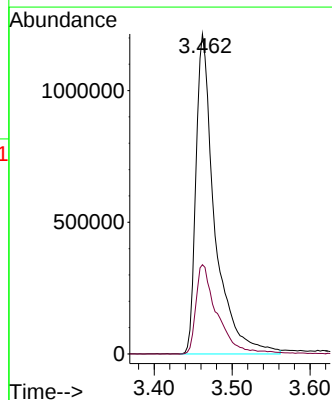
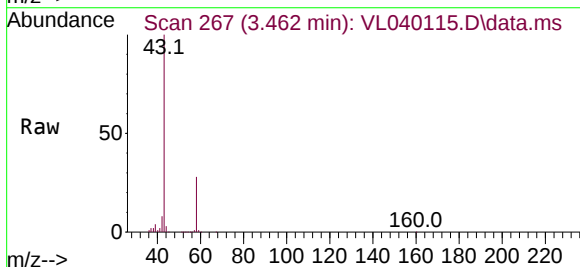
Instrument :
MSVOA_L
ClientSampleId :
VP-3

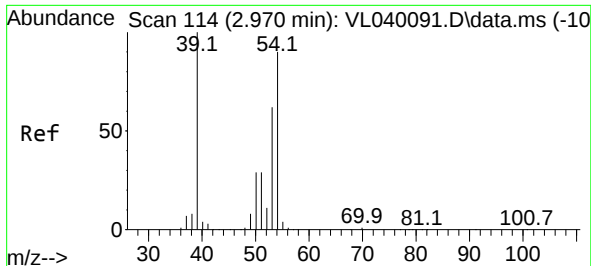
Tgt Ion: 45 Resp: 72035
Ion Ratio Lower Upper
45 100
46 40.7 14.8 59.2



#15
Acetone
Concen: 15.365 ppbv
RT: 3.462 min Scan# 267
Delta R.T. 0.006 min
Lab File: VL040115.D
Acq: 19 Jan 2023 16:14

Tgt Ion: 43 Resp: 2037974
Ion Ratio Lower Upper
43 100
58 32.0 21.8 32.8





#16

1,3-Butadiene

Concen: 15.558 ppbv

RT: 2.960 min Scan# 111

Delta R.T. -0.010 min

Lab File: VL040115.D

Acq: 19 Jan 2023 16:14

Instrument :

MSVOA_L

ClientSampleId :

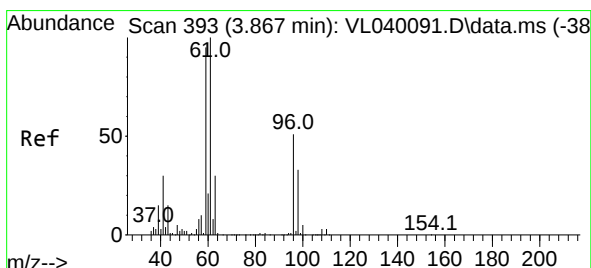
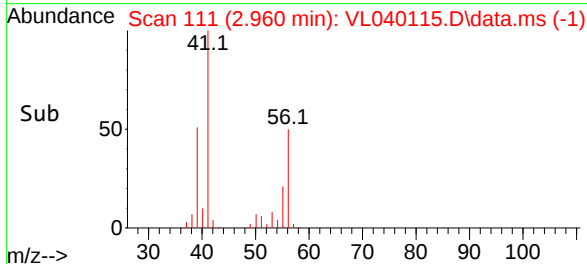
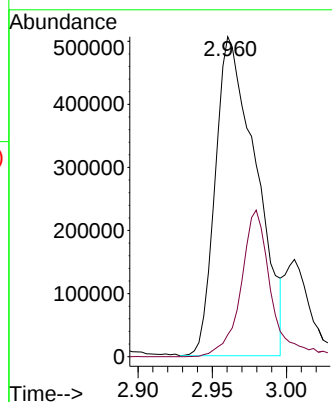
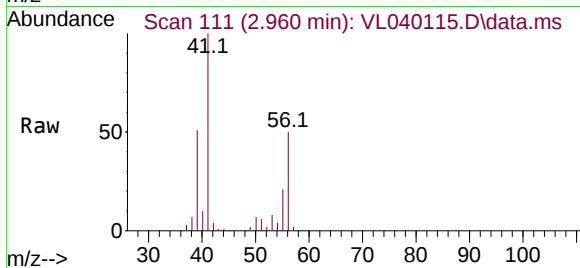
VP-3

Tgt Ion: 39 Resp: 962121

Ion Ratio Lower Upper

39 100

54 34.3 67.9 101.9#



#17

tert-Butyl alcohol

Concen: 0.090 ppbv

RT: 3.899 min Scan# 403

Delta R.T. 0.032 min

Lab File: VL040115.D

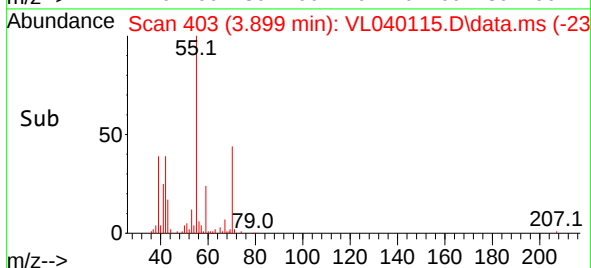
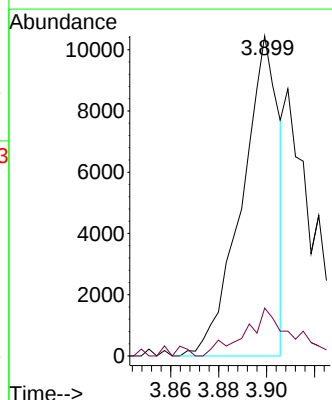
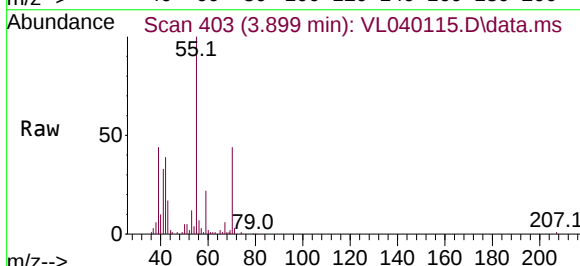
Acq: 19 Jan 2023 16:14

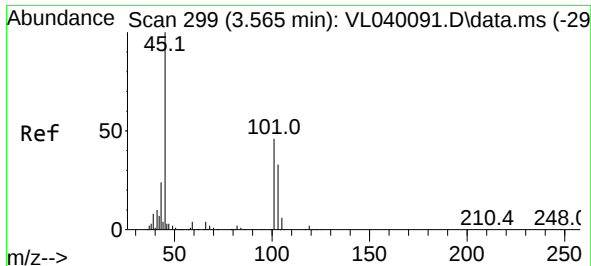
Tgt Ion: 59 Resp: 11124

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#





#19

Isopropyl Alcohol

Concen: 0.396 ppbv

RT: 3.587 min Scan# 306

Delta R.T. 0.022 min

Lab File: VL040115.D

Acq: 19 Jan 2023 16:14

Instrument :

MSVOA_L

ClientSampleId :

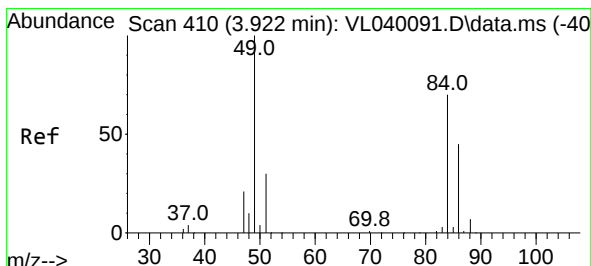
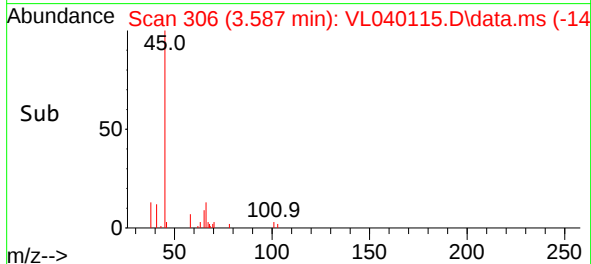
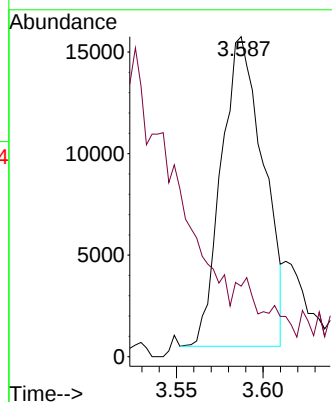
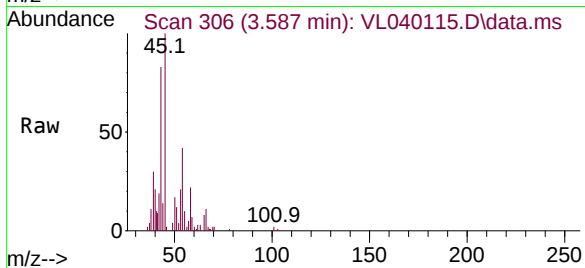
VP-3

Tgt Ion: 45 Resp: 25687

Ion Ratio Lower Upper

45 100

58 0.0 2.6 4.0#



#20

Methylene Chloride

Concen: 3.195 ppbv

RT: 3.931 min Scan# 413

Delta R.T. 0.010 min

Lab File: VL040115.D

Acq: 19 Jan 2023 16:14

Tgt Ion: 84 Resp: 186946

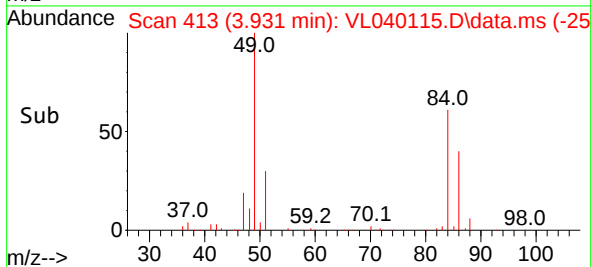
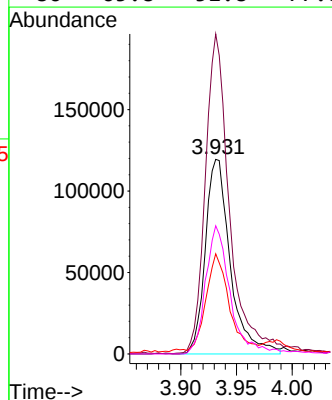
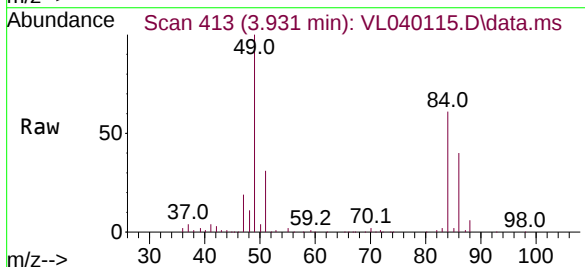
Ion Ratio Lower Upper

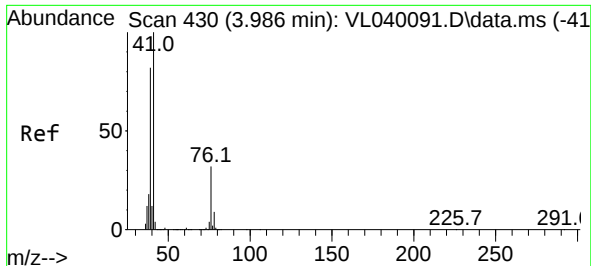
84 100

49 164.0 114.6 171.8

51 49.3 34.3 51.5

86 65.8 51.8 77.8





#21

Allyl Chloride

Concen: 0.306 ppbv

RT: 3.983 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL040115.D

Acq: 19 Jan 2023 16:14

Instrument :

MSVOA_L

ClientSampleId :

VP-3

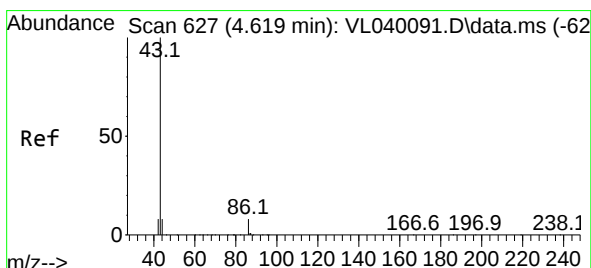
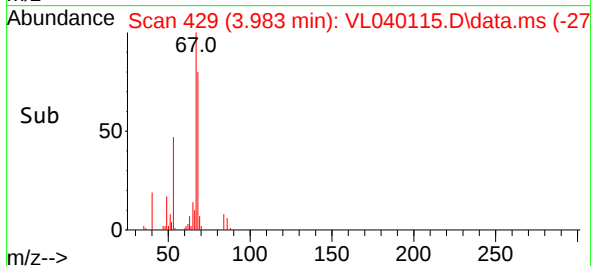
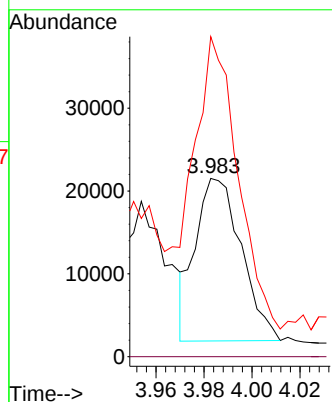
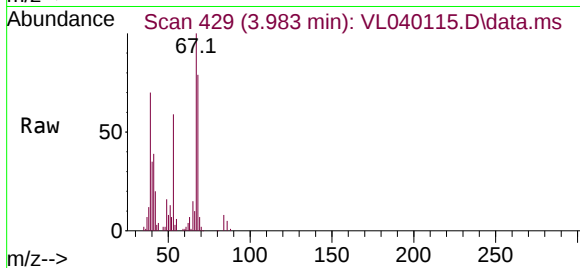
Tgt Ion: 41 Resp: 26031

Ion Ratio Lower Upper

41 100

76 0.0 25.9 38.9#

39 326.9 66.8 100.2#



#23

Vinyl Acetate

Concen: 0.546 ppbv

RT: 4.613 min Scan# 625

Delta R.T. -0.006 min

Lab File: VL040115.D

Acq: 19 Jan 2023 16:14

Tgt Ion: 43 Resp: 23475

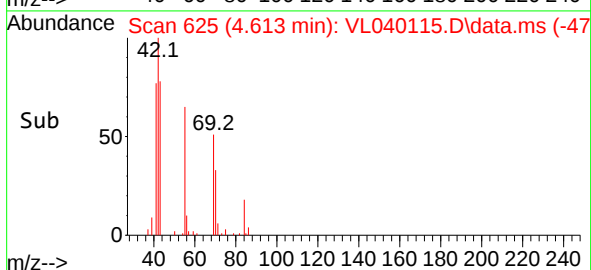
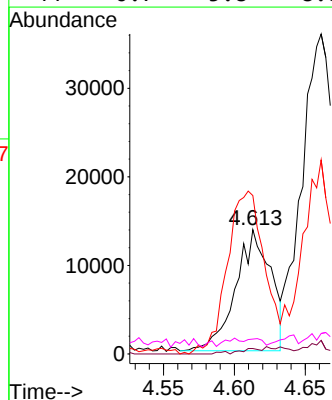
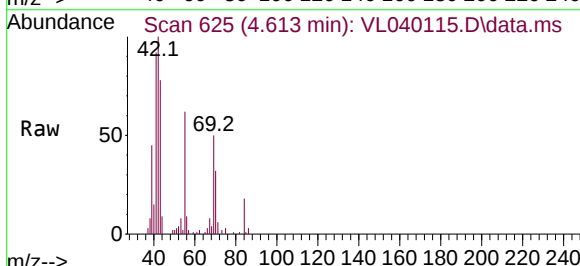
Ion Ratio Lower Upper

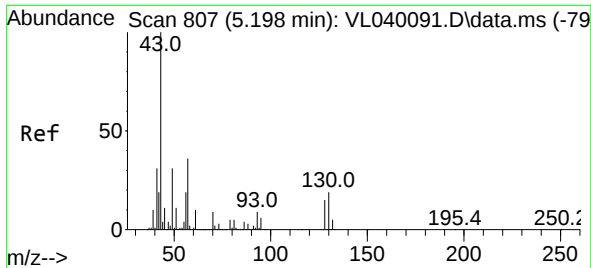
43 100

86 4.4 5.6 8.4#

42 131.0 7.7 11.5#

44 0.7 5.8 8.8#

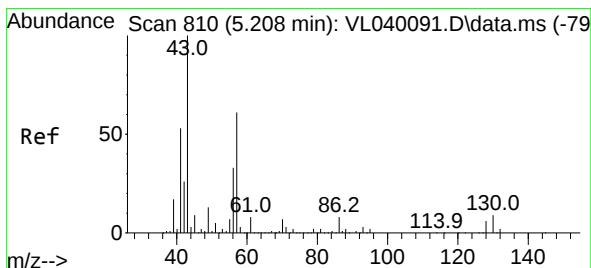
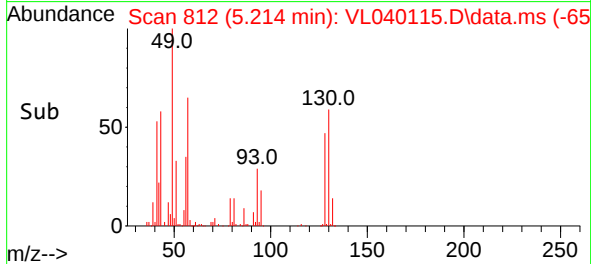
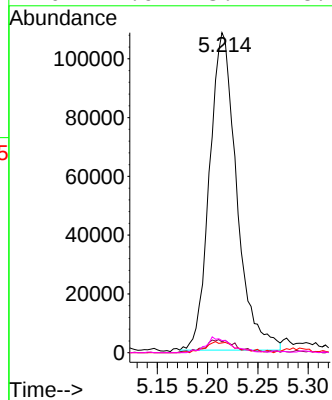
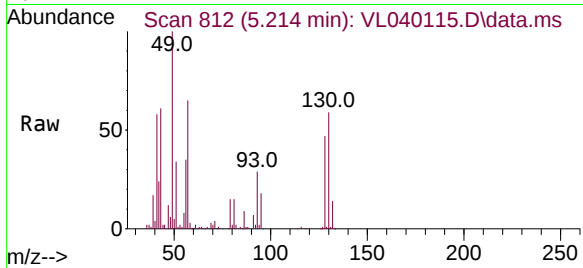




#25
Ethyl Acetate
Concen: 0.869 ppbv
RT: 5.214 min Scan# 812
Delta R.T. 0.016 min
Lab File: VL040115.D
Acq: 19 Jan 2023 16:14

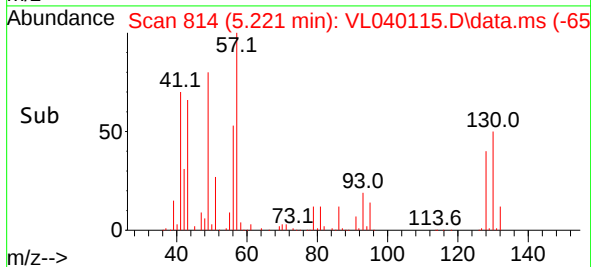
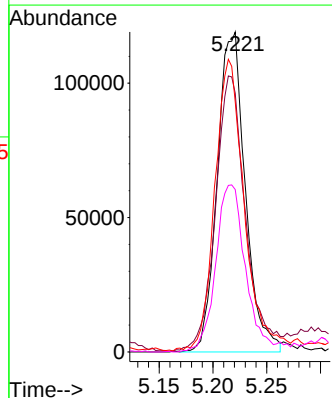
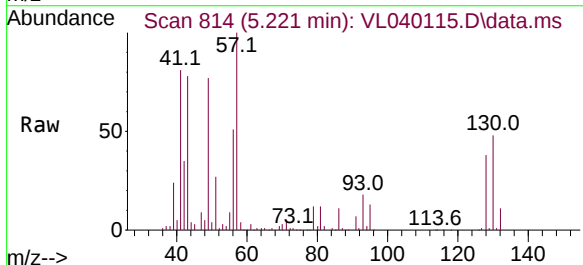
Instrument :
MSVOA_L
ClientSampleId :
VP-3

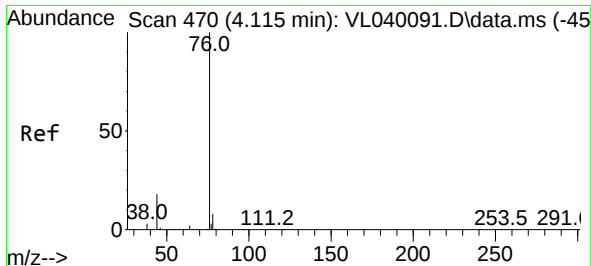
Tgt Ion: 43 Resp: 203156
Ion Ratio Lower Upper
43 100
45 4.7 8.5 12.7#
61 4.0 8.4 12.6#
70 4.6 5.9 8.9#



#26
Hexane
Concen: 2.107 ppbv
RT: 5.221 min Scan# 814
Delta R.T. 0.013 min
Lab File: VL040115.D
Acq: 19 Jan 2023 16:14

Tgt Ion: 57 Resp: 215425
Ion Ratio Lower Upper
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41 92.4 72.2 108.4
43 99.7 192.1 288.1#
56 55.9 42.9 64.3

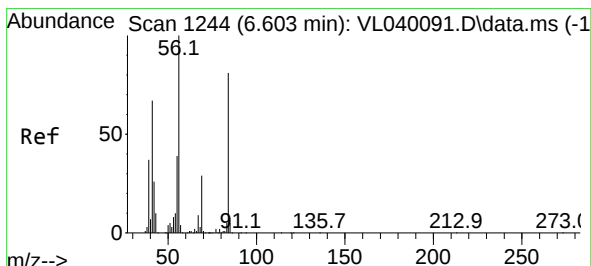
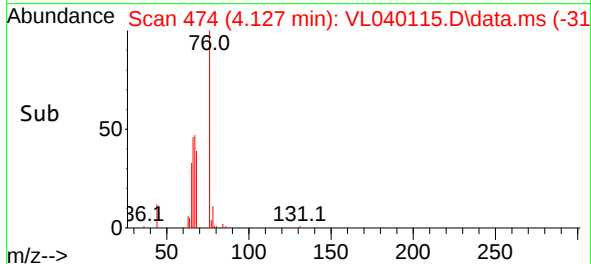
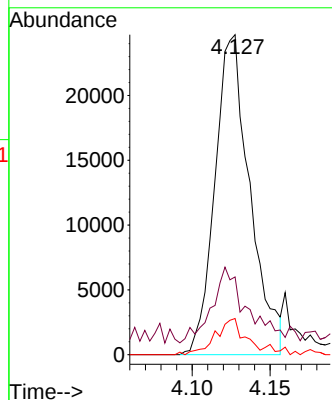
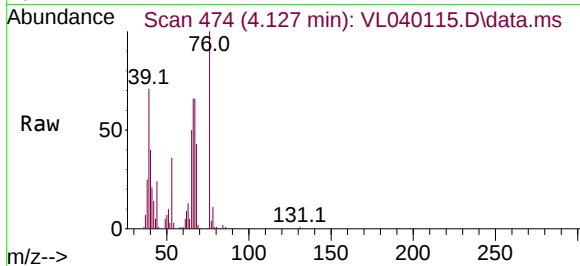




#27
Carbon Disulfide
Concen: 0.291 ppbv
RT: 4.127 min Scan# 41
Delta R.T. 0.013 min
Lab File: VL040115.D
Acq: 19 Jan 2023 16:14

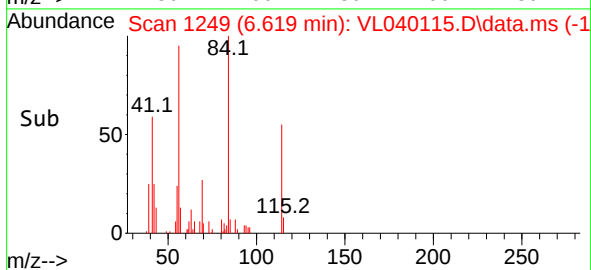
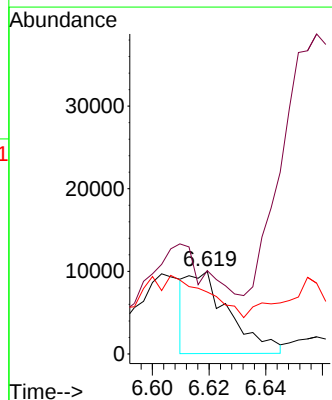
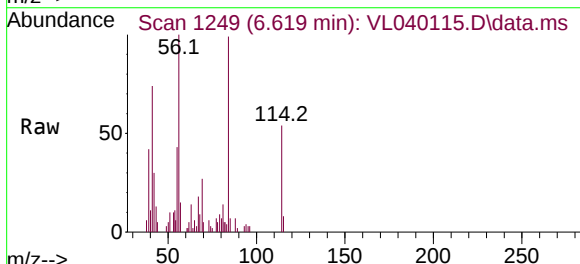
Instrument :
MSVOA_L
ClientSampleId :
VP-3

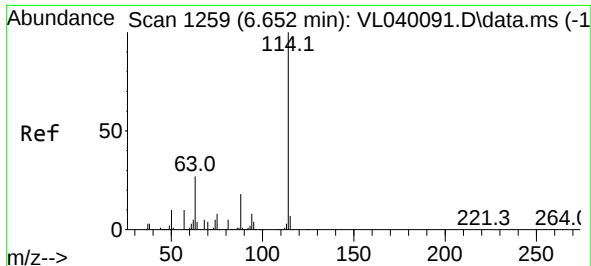
Tgt Ion: 76 Resp: 38526
Ion Ratio Lower Upper
76 100
44 26.4 14.9 22.3#
78 10.5 8.2 12.2



#30
Cyclohexane
Concen: 0.126 ppbv
RT: 6.619 min Scan# 1249
Delta R.T. 0.016 min
Lab File: VL040115.D
Acq: 19 Jan 2023 16:14

Tgt Ion: 84 Resp: 10279
Ion Ratio Lower Upper
84 100
56 0.0 111.5 167.3#
41 0.0 71.4 107.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.661 min Scan# 11

Delta R.T. 0.010 min

Lab File: VL040115.D

Acq: 19 Jan 2023 16:14

Instrument :

MSVOA_L

ClientSampleId :

VP-3

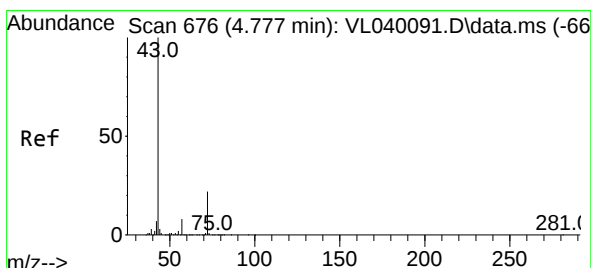
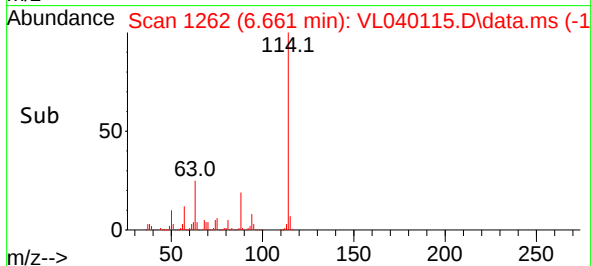
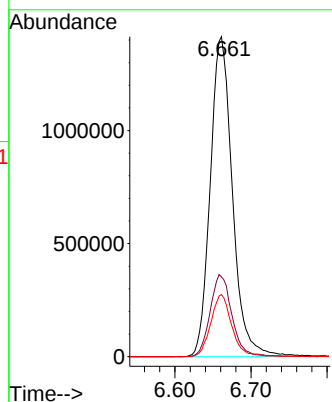
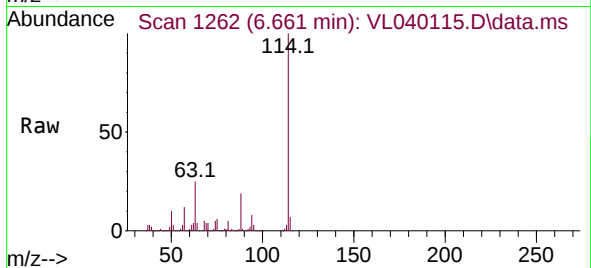
Tgt Ion:114 Resp: 2855511

Ion Ratio Lower Upper

114 100

63 25.5 21.8 32.8

88 18.6 14.8 22.2



#34

2-Butanone

Concen: 5.794 ppbv

RT: 4.790 min Scan# 680

Delta R.T. 0.013 min

Lab File: VL040115.D

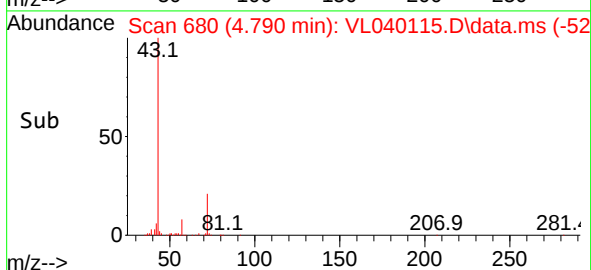
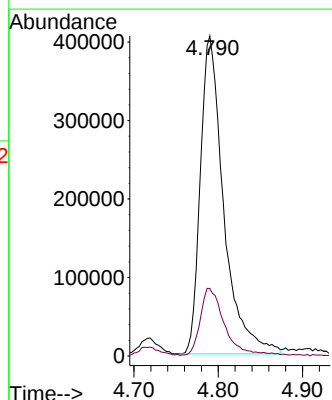
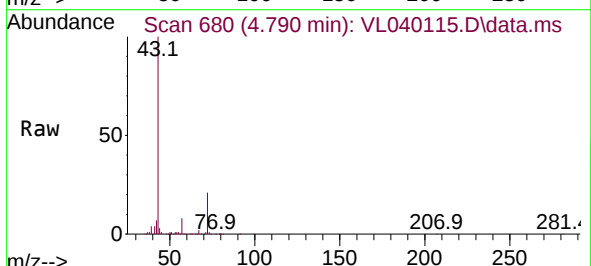
Acq: 19 Jan 2023 16:14

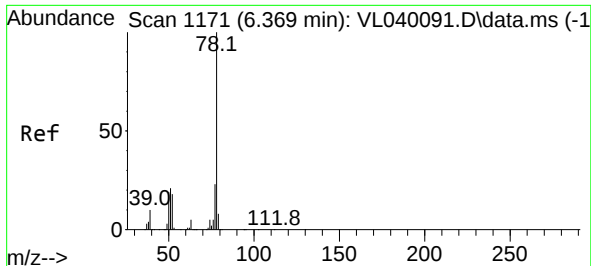
Tgt Ion: 43 Resp: 782619

Ion Ratio Lower Upper

43 100

72 22.7 18.4 27.6





#36

Benzene

Concen: 1.899 ppbv

RT: 6.375 min Scan# 1171

Delta R.T. 0.006 min

Lab File: VL040115.D

Acq: 19 Jan 2023 16:14

Instrument :

MSVOA_L

ClientSampleId :

VP-3

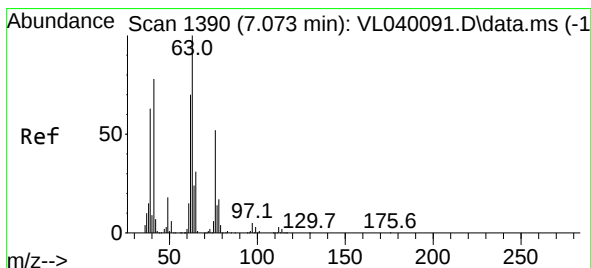
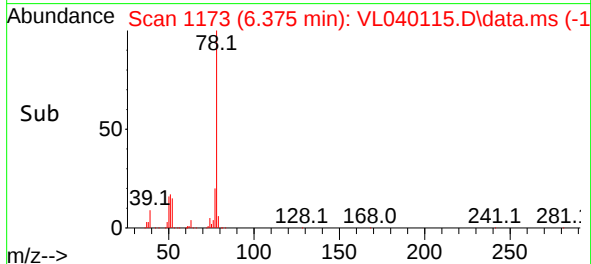
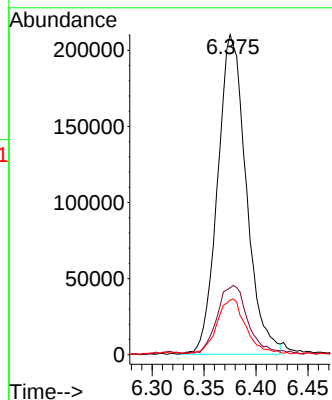
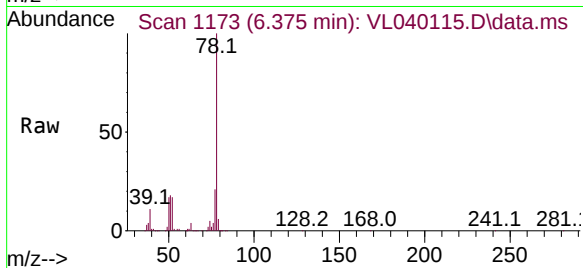
Tgt Ion: 78 Resp: 401237

Ion Ratio Lower Upper

78 100

77 20.3 18.1 27.1

50 16.8 15.6 23.4



#39

1,2-Dichloropropane

Concen: 8.565 ppbv

RT: 6.658 min Scan# 1261

Delta R.T. -0.415 min

Lab File: VL040115.D

Acq: 19 Jan 2023 16:14

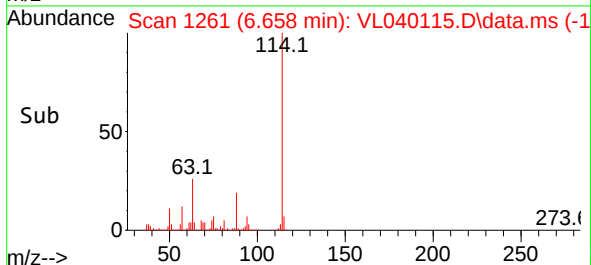
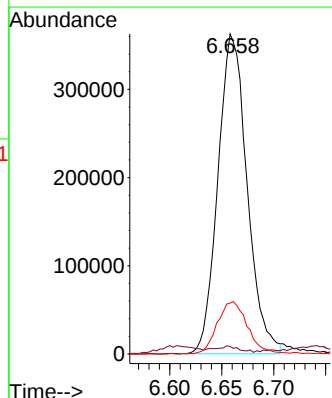
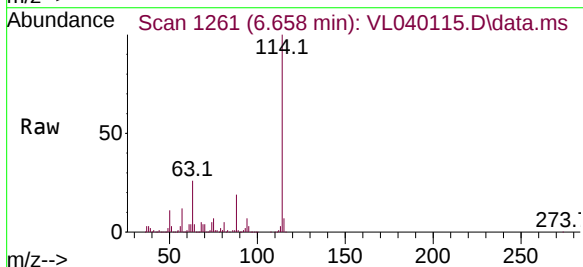
Tgt Ion: 63 Resp: 707917

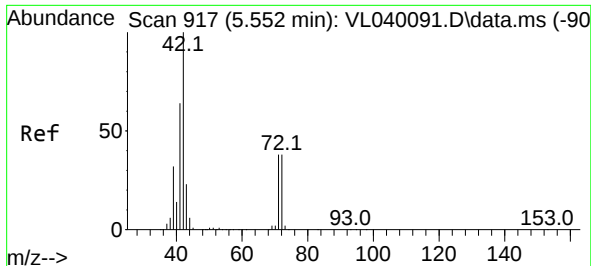
Ion Ratio Lower Upper

63 100

41 1.3 62.2 93.4#

62 15.9 55.8 83.8#

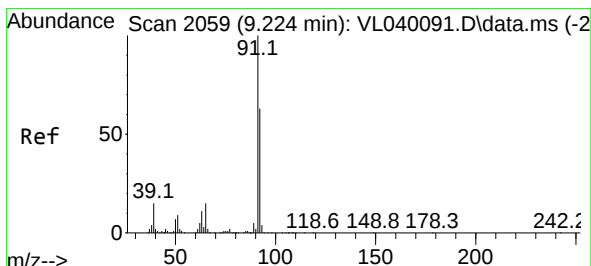
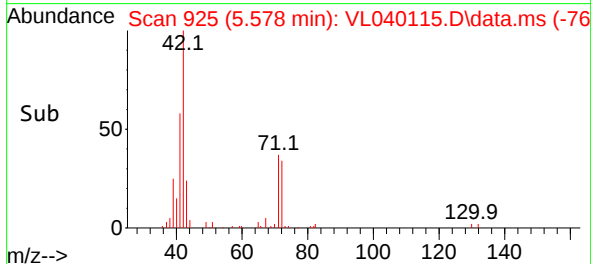
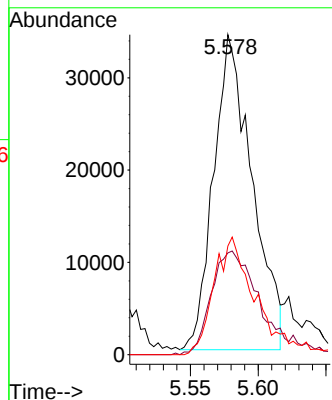
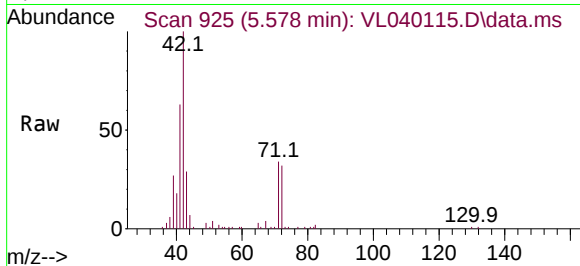




#41
Tetrahydrofuran
Concen: 0.865 ppbv
RT: 5.578 min Scan# 917
Delta R.T. 0.026 min
Lab File: VL040115.D
Acq: 19 Jan 2023 16:14

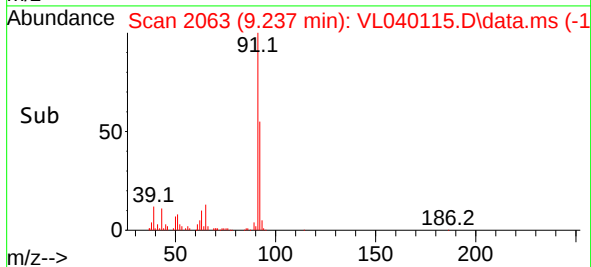
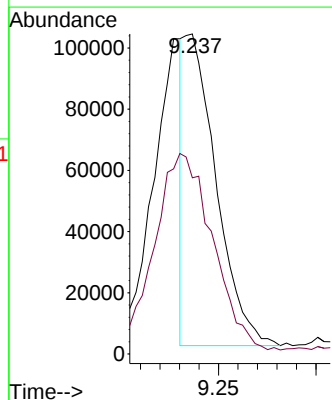
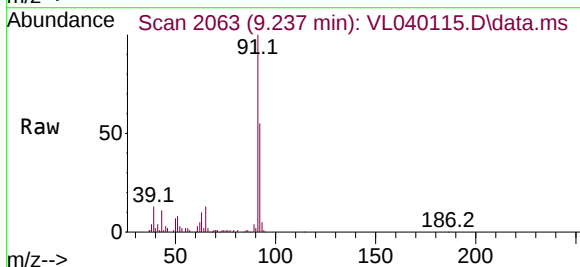
Instrument :
MSVOA_L
ClientSampleId :
VP-3

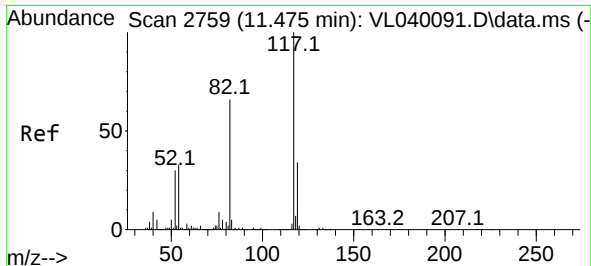
Tgt Ion: 42 Resp: 67465
Ion Ratio Lower Upper
42 100
72 42.6 31.9 47.9
71 40.5 31.4 47.2



#53
Toluene
Concen: 0.516 ppbv
RT: 9.237 min Scan# 2063
Delta R.T. 0.013 min
Lab File: VL040115.D
Acq: 19 Jan 2023 16:14

Tgt Ion: 91 Resp: 116313
Ion Ratio Lower Upper
91 100
92 120.3 48.3 72.5#

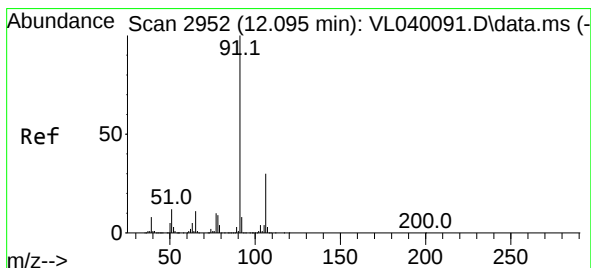
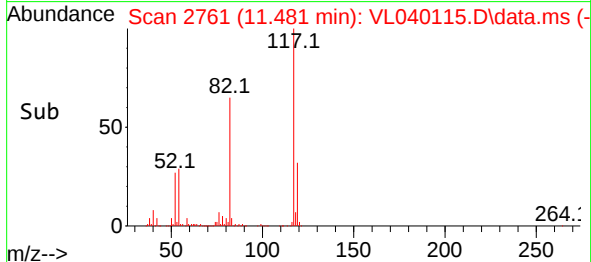
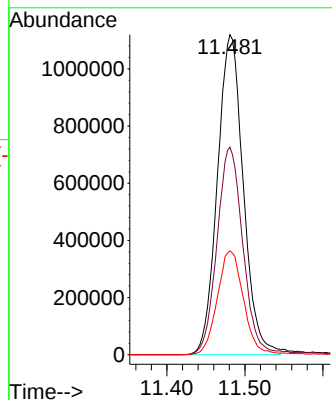
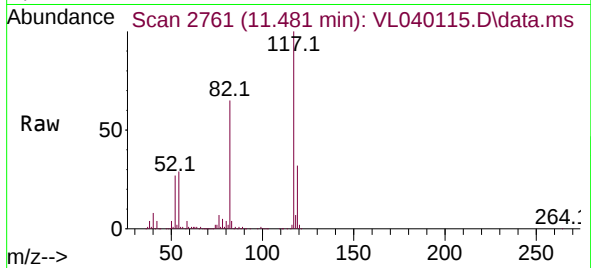




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.481 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL040115.D
Acq: 19 Jan 2023 16:14

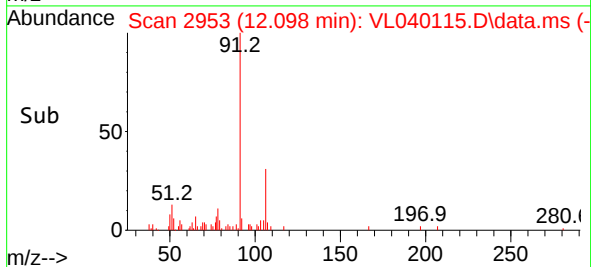
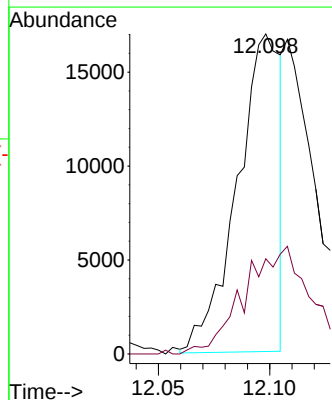
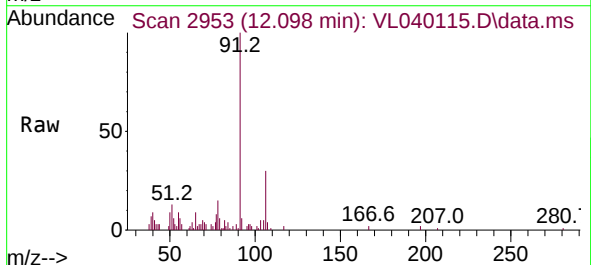
Instrument :
MSVOA_L
ClientSampleId :
VP-3

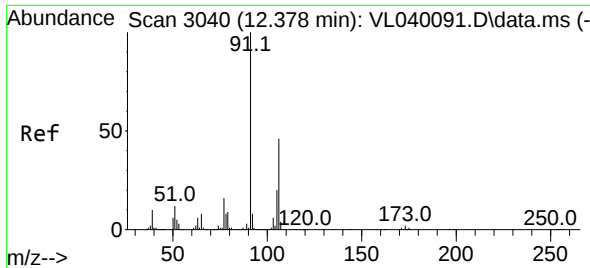
Tgt Ion:117 Resp: 2582687
Ion Ratio Lower Upper
117 100
82 65.9 54.4 81.6
119 33.0 26.8 40.2



#58
Ethyl Benzene
Concen: 0.079 ppbv
RT: 12.098 min Scan# 2953
Delta R.T. 0.003 min
Lab File: VL040115.D
Acq: 19 Jan 2023 16:14

Tgt Ion: 91 Resp: 22746
Ion Ratio Lower Upper
91 100
106 30.2 23.7 35.5





#59

m/p-Xylene

Concen: 0.072 ppbv

RT: 12.388 min Scan# 3040

Delta R.T. 0.010 min

Lab File: VL040115.D

Acq: 19 Jan 2023 16:14

Instrument :

MSVOA_L

ClientSampleId :

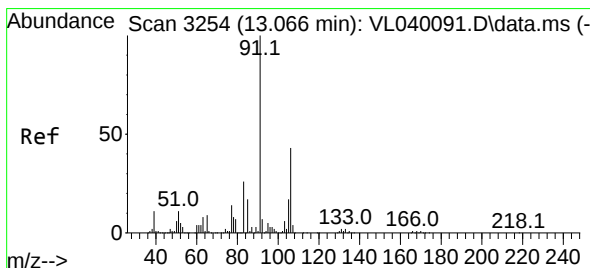
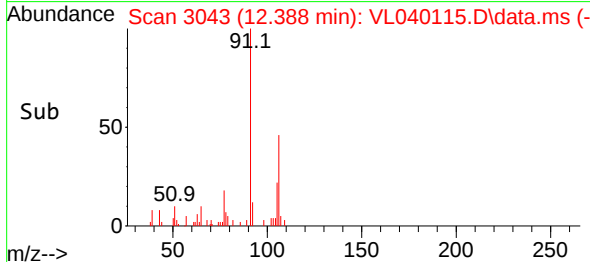
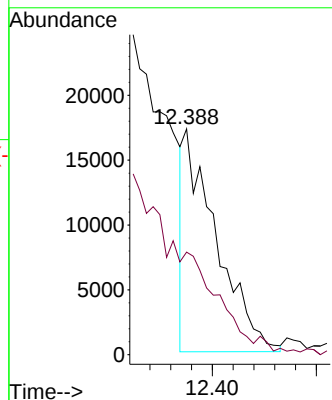
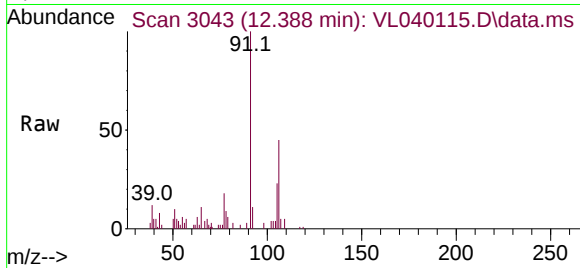
VP-3

Tgt Ion: 91 Resp: 18560

Ion Ratio Lower Upper

91 100

106 0.0 34.2 51.4#



#60

o-Xylene

Concen: 0.068 ppbv

RT: 13.076 min Scan# 3257

Delta R.T. 0.010 min

Lab File: VL040115.D

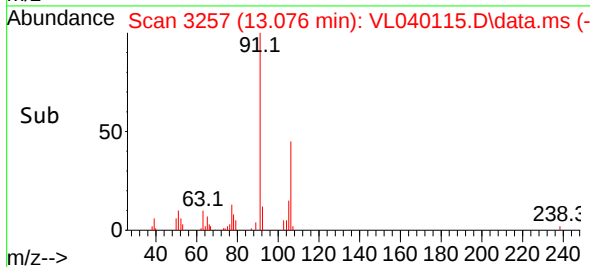
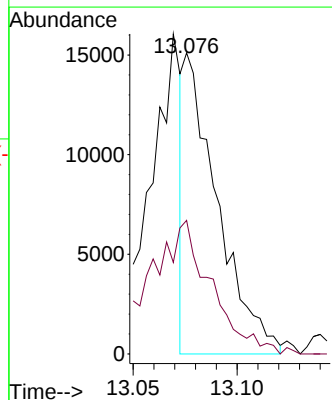
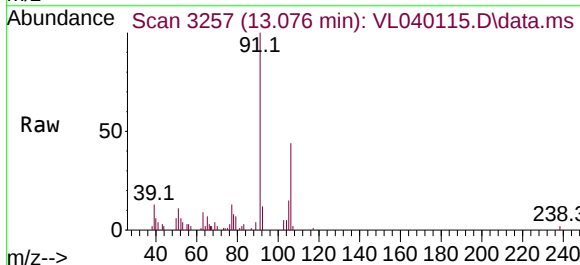
Acq: 19 Jan 2023 16:14

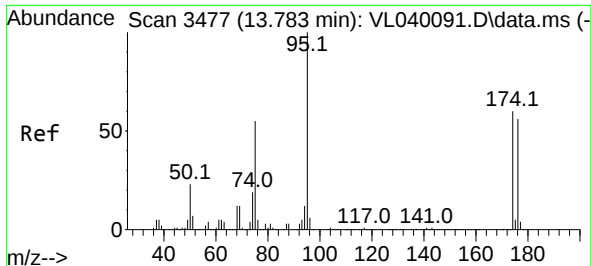
Tgt Ion: 91 Resp: 16841

Ion Ratio Lower Upper

91 100

106 81.6 21.6 64.8#

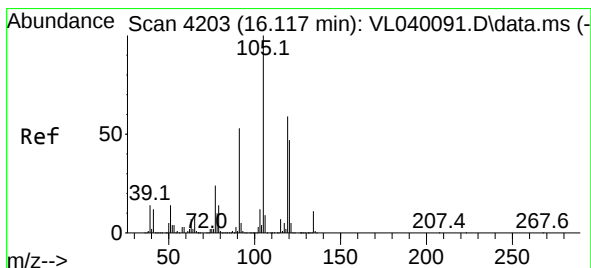
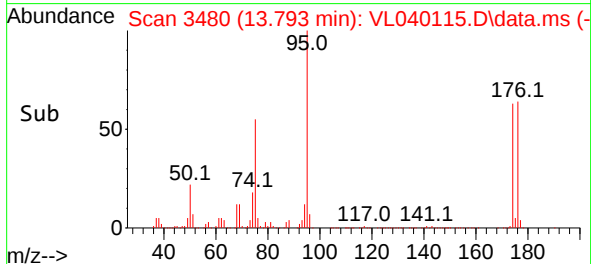
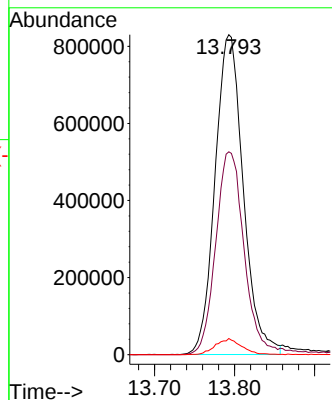
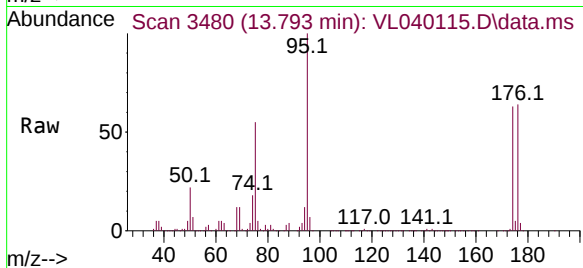




#68
1-Bromo-4-Fluorobenzene
Concen: 9.478 ppbv
RT: 13.793 min Scan# 3477
Delta R.T. 0.010 min
Lab File: VL040115.D
Acq: 19 Jan 2023 16:14

Instrument :
MSVOA_L
ClientSampleId :
VP-3

Tgt Ion: 95 Resp: 2034328
Ion Ratio Lower Upper
95 100
174 65.9 47.7 71.5
175 4.7 3.4 5.2



#74
1,2,4-Trimethylbenzene
Concen: 0.090 ppbv
RT: 16.124 min Scan# 4205
Delta R.T. 0.006 min
Lab File: VL040115.D
Acq: 19 Jan 2023 16:14

Tgt Ion: 105 Resp: 24419
Ion Ratio Lower Upper
105 100
120 26.0 38.0 57.0#
91 12.6 42.1 63.1#
77 6.9 19.3 28.9#

