

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091823\
 Data File : VL040703.D
 Acq On : 18 Sep 2023 17:44
 Operator : SY/MD
 Sample : 04402-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ST-4

Quant Time: Sep 19 05:20:11 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091423AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 19 05:12:43 2023
 Response via : Initial Calibration

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

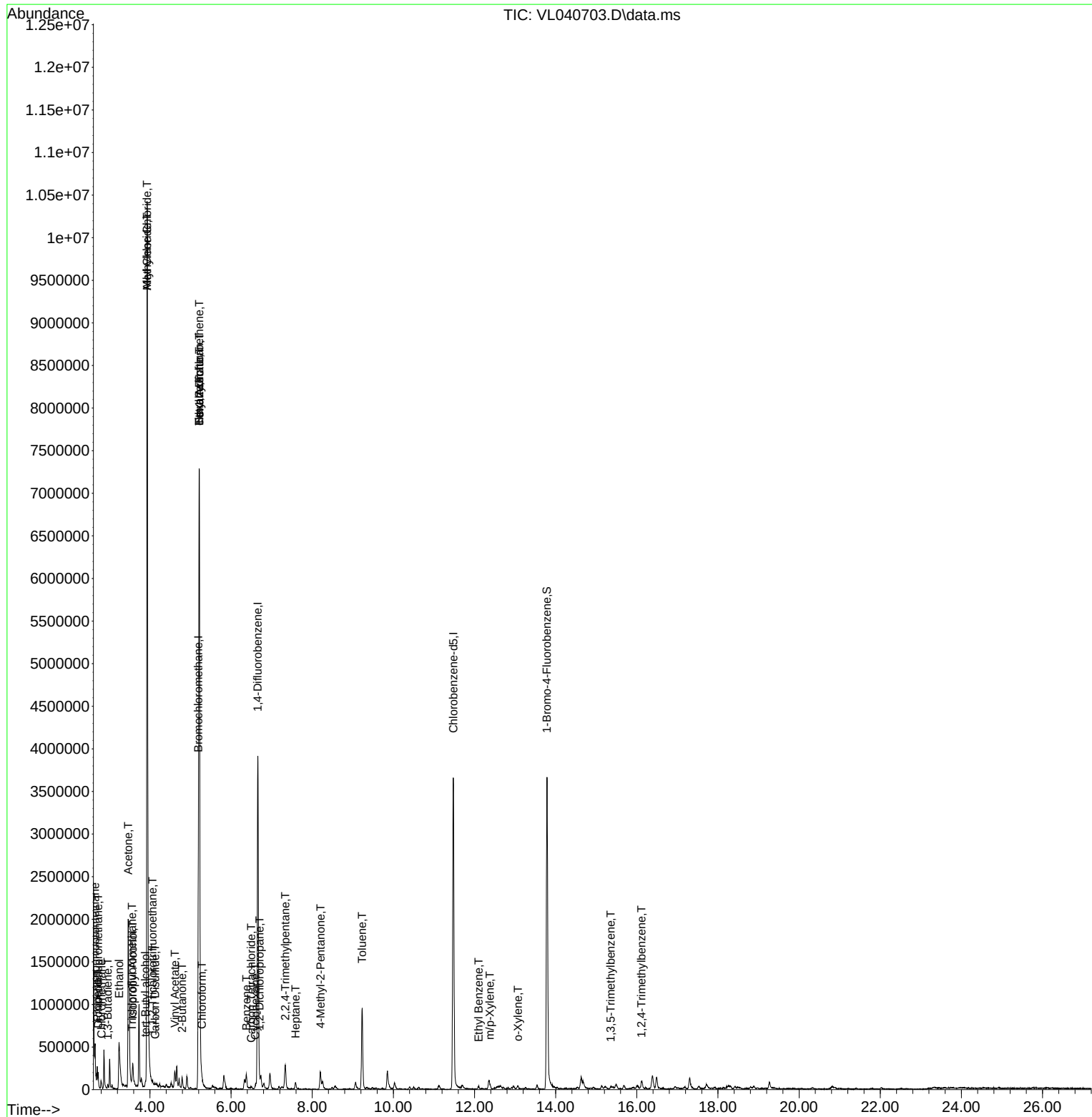
Internal Standards						
1) Bromochloromethane	5.195	49	1130245	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	2891155	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.478	117	2334767	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.786	95	1792745	9.938	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.400%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.726	85	111337	0.447	ppbv	88
3) Chlorodifluoromethane	2.649	51	261012	1.418	ppbv #	65
4) Chloromethane	2.806	50	41329	0.586	ppbv	95
9) Propene	2.700	41	46106	0.869	ppbv #	81
10) Heptane	7.587	43	16146	0.135	ppbv #	45
11) Trichlorofluoromethane	3.558	101	44901	0.205	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.066	101	6097	0.039	ppbv #	33
13) Ethanol	3.240	45	838151	53.384	ppbv	98
15) Acetone	3.465	43	2220302	14.893	ppbv	98
16) 1,3-Butadiene	2.957	39	12207	0.188	ppbv #	49
17) tert-Butyl alcohol	3.886	59	17568	0.115	ppbv #	71
19) Isopropyl Alcohol	3.578	45	242619	2.701	ppbv #	1
20) Methylene Chloride	3.931	84	3813812	47.529	ppbv	98
21) Allyl Chloride	3.931	41	146520	1.604	ppbv #	22
23) Vinyl Acetate	4.620	43	134117	0.870	ppbv #	72
25) Ethyl Acetate	5.218	43	1861637	7.742	ppbv #	76
26) Hexane	5.218	57	2815991	24.768	ppbv #	37
27) Carbon Disulfide	4.131	76	15847	0.100	ppbv #	9
29) Chloroform	5.279	83	21139	0.108	ppbv	90
30) Cyclohexane	6.600	84	6234	0.073	ppbv #	1
31) cis-1,2-Dichloroethene	5.218	61	5758	0.055	ppbv #	36
34) 2-Butanone	4.793	43	141667	0.974	ppbv	95
35) Carbon Tetrachloride	6.497	117	8763	0.044	ppbv #	63
36) Benzene	6.378	78	119807	0.560	ppbv	96
39) 1,2-Dichloropropane	6.703	63	13829	0.168	ppbv #	20
41) Tetrahydrofuran	5.218	42	974043	13.064	ppbv #	47
44) 2,2,4-Trimethylpentane	7.336	57	135909	0.399	ppbv #	34
50) 4-Methyl-2-Pentanone	8.205	43	150064	0.764	ppbv	100
53) Toluene	9.230	91	675317	2.988	ppbv	99
58) Ethyl Benzene	12.105	91	27521	0.103	ppbv	98
59) m/p-Xylene	12.381	91	21307	0.085	ppbv #	32
60) o-Xylene	13.069	91	29687	0.125	ppbv	97
73) 1,3,5-Trimethylbenzene	15.359	105	8213	0.034	ppbv #	76
74) 1,2,4-Trimethylbenzene	16.114	105	20583	0.070	ppbv #	63

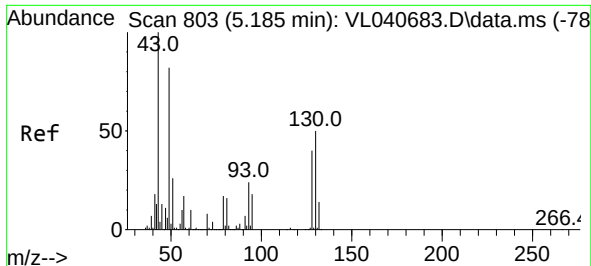
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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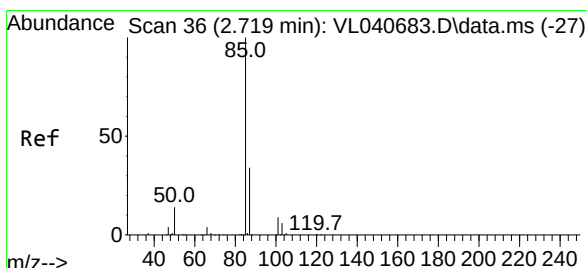
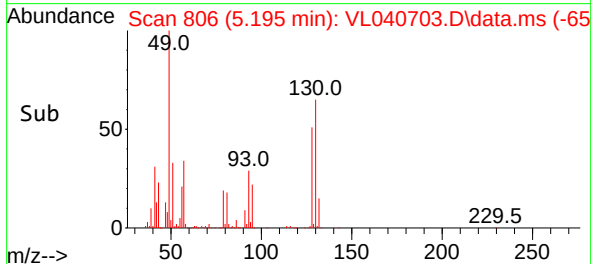
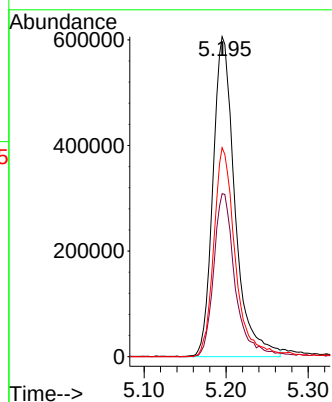
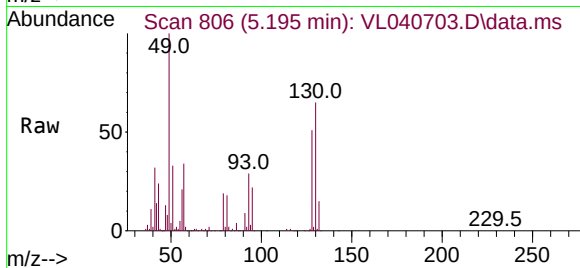




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.195 min Scan# 80
 Delta R.T. -0.003 min
 Lab File: VL040703.D
 Acq: 18 Sep 2023 17:44

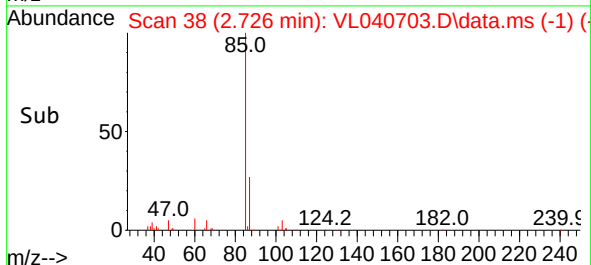
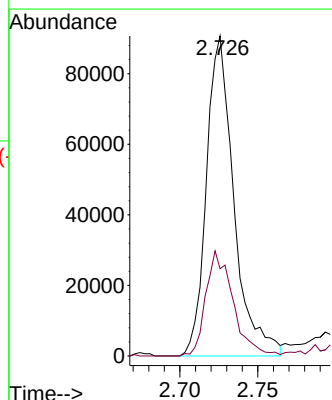
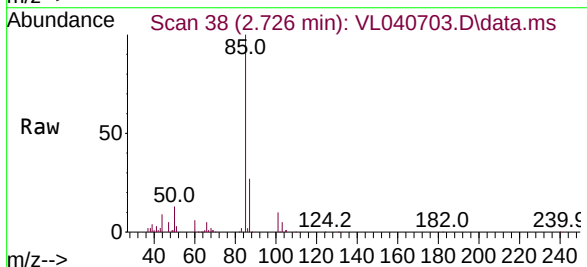
Instrument :
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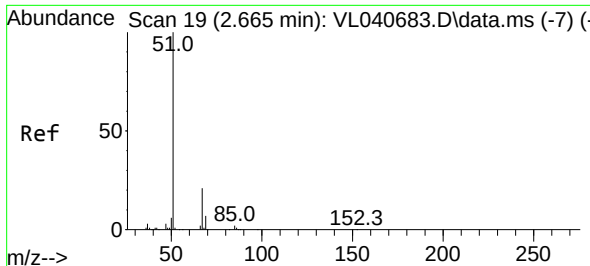
Tgt Ion: 49 Resp: 1130245
 Ion Ratio Lower Upper
 49 100
 128 50.8 25.4 76.0
 130 65.2 32.3 96.8



#2
 Dichlorodifluoromethane
 Concen: 0.447 ppbv
 RT: 2.726 min Scan# 38
 Delta R.T. -0.006 min
 Lab File: VL040703.D
 Acq: 18 Sep 2023 17:44

Tgt Ion: 85 Resp: 111337
 Ion Ratio Lower Upper
 85 100
 87 27.2 27.2 40.8

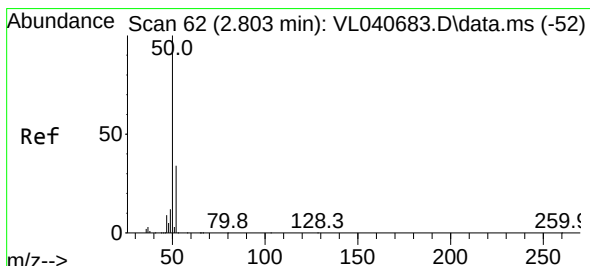
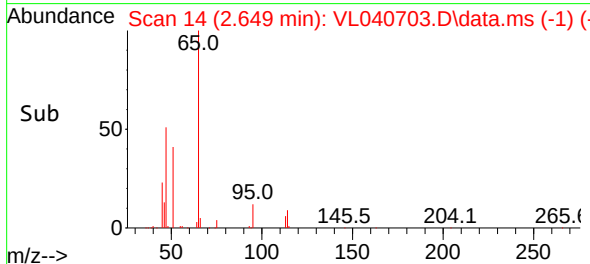
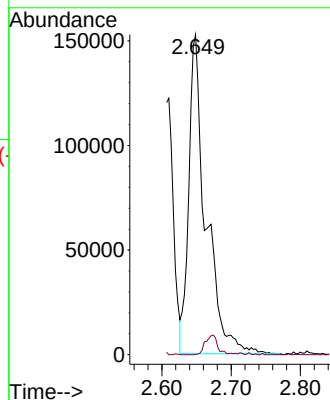
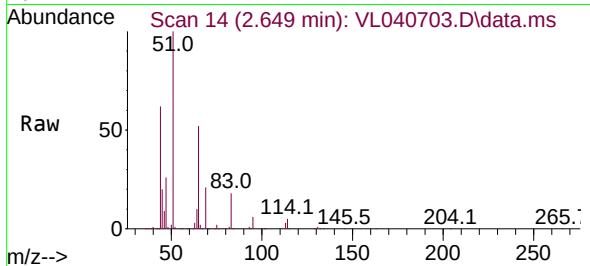




#3
Chlorodifluoromethane
Concen: 1.418 ppbv
RT: 2.649 min Scan# 14
Delta R.T. -0.029 min
Lab File: VL040703.D
Acq: 18 Sep 2023 17:44

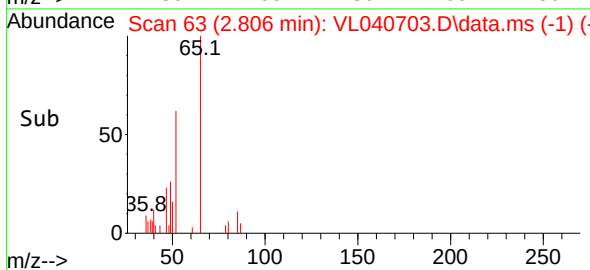
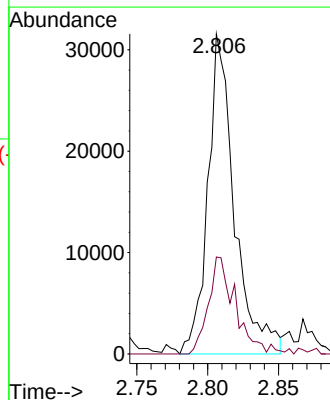
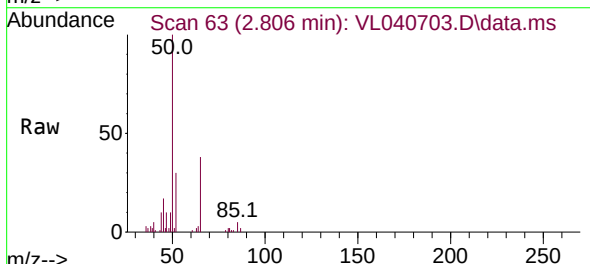
Instrument :
MSVOA_L
ClientSampleId :
ST-4

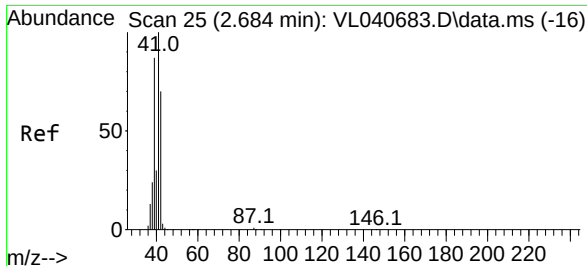
Tgt Ion: 51 Resp: 261012
Ion Ratio Lower Upper
51 100
67 4.5 16.7 25.1#



#4
Chloromethane
Concen: 0.586 ppbv
RT: 2.806 min Scan# 63
Delta R.T. -0.010 min
Lab File: VL040703.D
Acq: 18 Sep 2023 17:44

Tgt Ion: 50 Resp: 41329
Ion Ratio Lower Upper
50 100
52 30.9 27.1 40.7





#9

Propene

Concen: 0.869 ppbv

RT: 2.700 min Scan# 30

Delta R.T. 0.003 min

Lab File: VL040703.D

Acq: 18 Sep 2023 17:44

Instrument :

MSVOA_L

ClientSampleId :

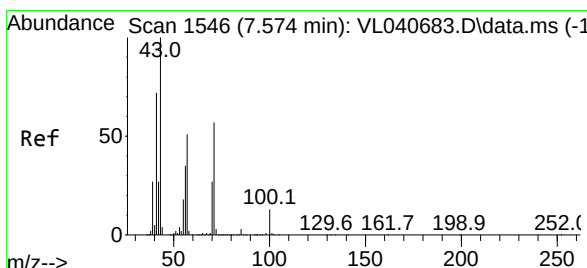
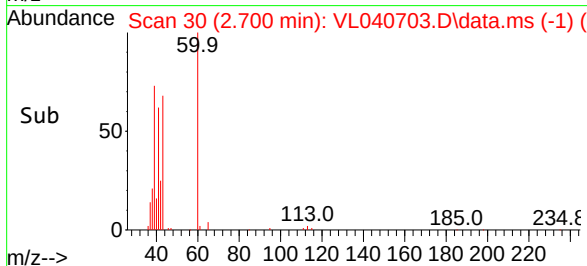
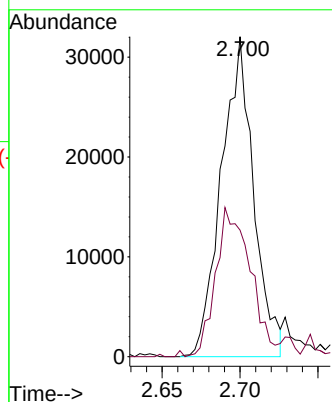
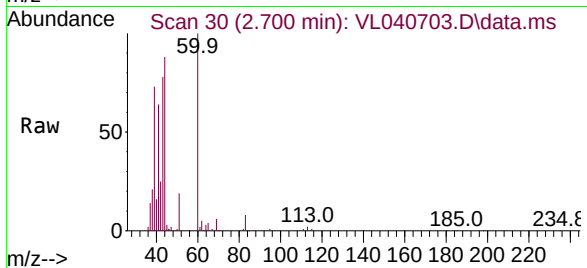
ST-4

Tgt Ion: 41 Resp: 46106

Ion Ratio Lower Upper

41 100

42 54.9 56.7 85.1#



#10

Heptane

Concen: 0.135 ppbv

RT: 7.587 min Scan# 1550

Delta R.T. 0.000 min

Lab File: VL040703.D

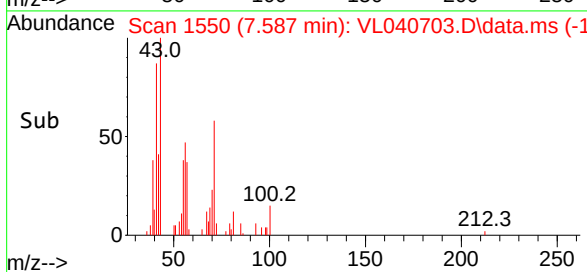
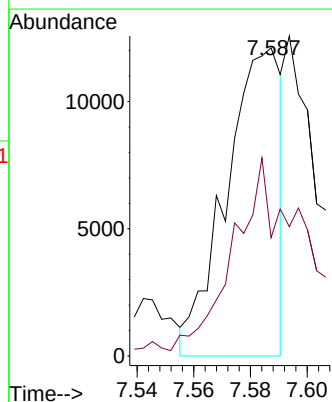
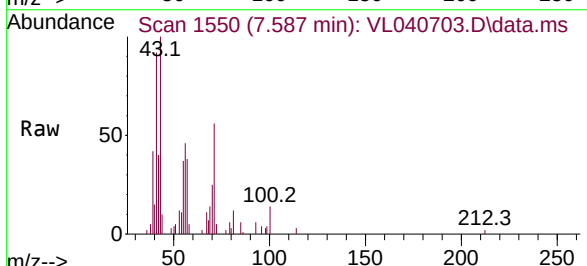
Acq: 18 Sep 2023 17:44

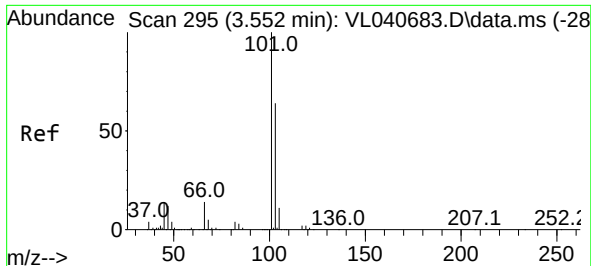
Tgt Ion: 43 Resp: 16146

Ion Ratio Lower Upper

43 100

57 90.6 41.8 62.6#

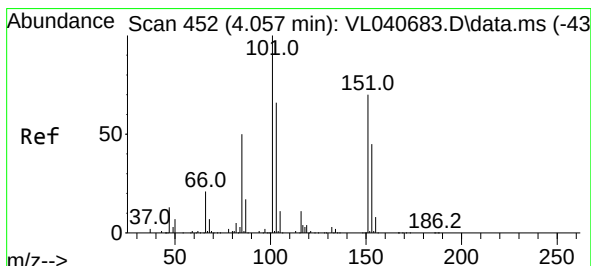
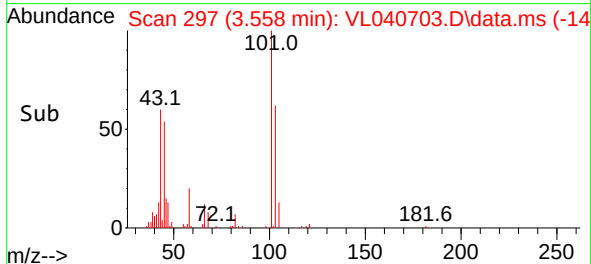
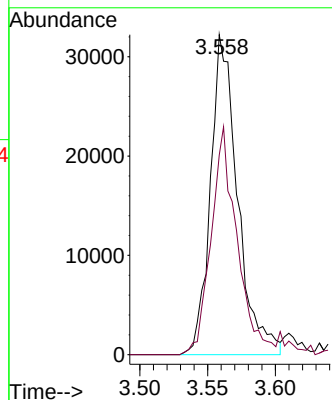
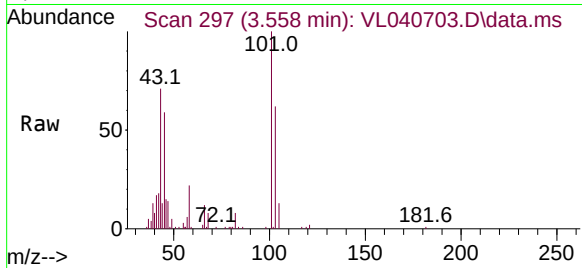




#11
 Trichlorofluoromethane
 Concen: 0.205 ppbv
 RT: 3.558 min Scan# 295
 Delta R.T. -0.010 min
 Lab File: VL040703.D
 Acq: 18 Sep 2023 17:44

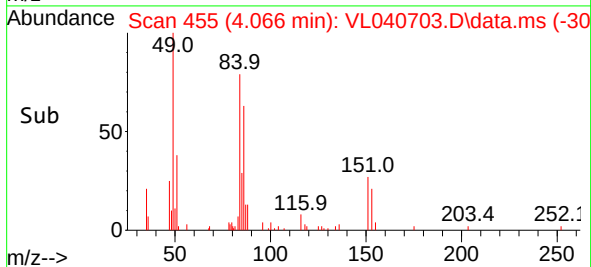
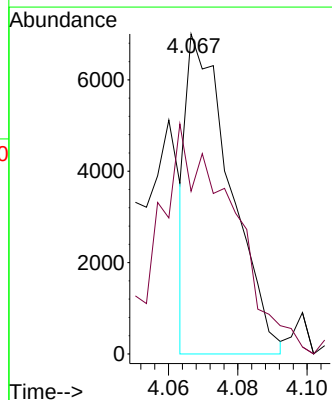
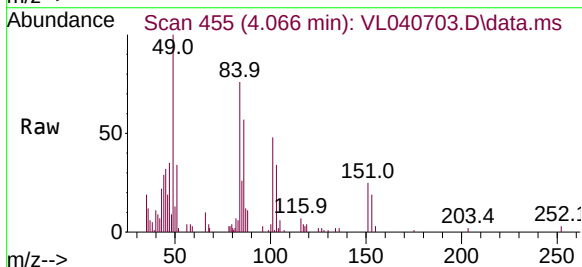
Instrument :
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 ClientSampleId :
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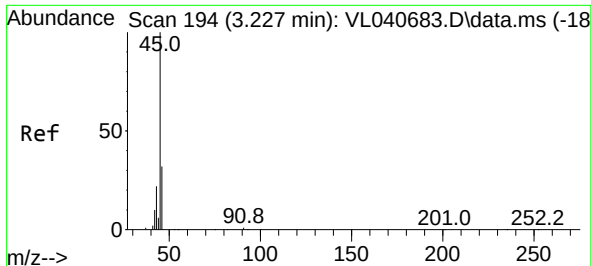
Tgt Ion:101 Resp: 44901
 Ion Ratio Lower Upper
 101 100
 103 62.4 51.3 76.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.039 ppbv
 RT: 4.066 min Scan# 455
 Delta R.T. -0.006 min
 Lab File: VL040703.D
 Acq: 18 Sep 2023 17:44

Tgt Ion:101 Resp: 6097
 Ion Ratio Lower Upper
 101 100
 151 126.0 56.8 85.2#

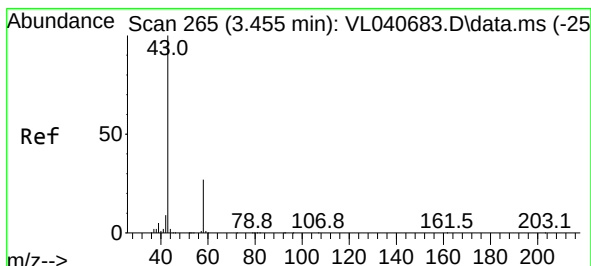
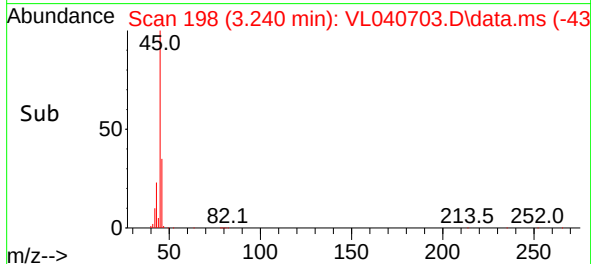
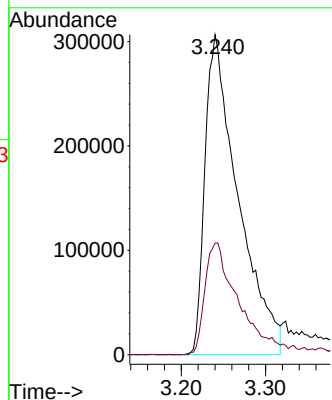
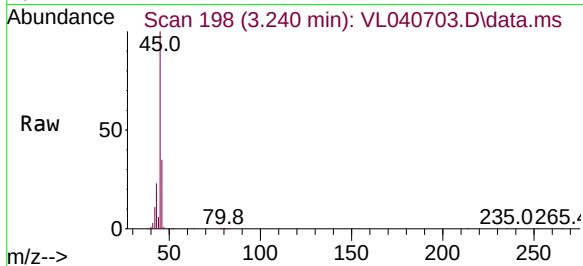




#13
Ethanol
Concen: 53.384 ppbv
RT: 3.240 min Scan# 194
Delta R.T. -0.003 min
Lab File: VL040703.D
Acq: 18 Sep 2023 17:44

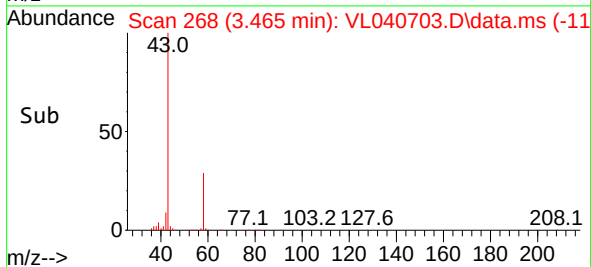
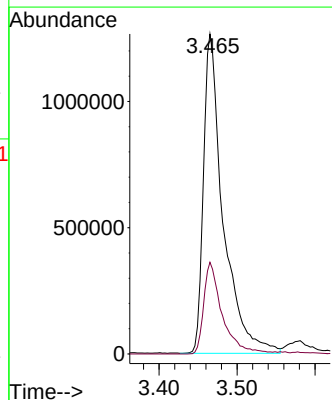
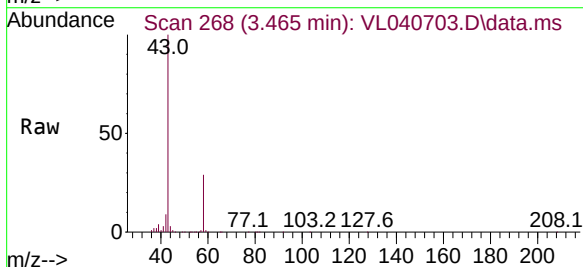
Instrument :
MSVOA_L
ClientSampleId :
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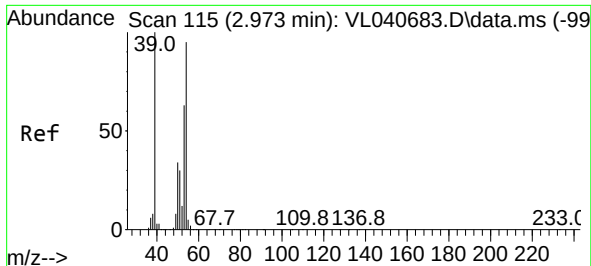
Tgt Ion: 45 Resp: 838151
Ion Ratio Lower Upper
45 100
46 36.9 15.2 61.0



#15
Acetone
Concen: 14.893 ppbv
RT: 3.465 min Scan# 268
Delta R.T. -0.006 min
Lab File: VL040703.D
Acq: 18 Sep 2023 17:44

Tgt Ion: 43 Resp: 2220302
Ion Ratio Lower Upper
43 100
58 27.4 22.6 34.0

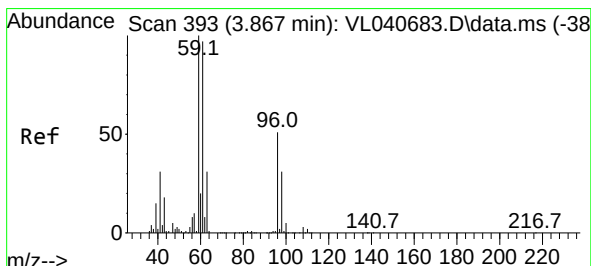
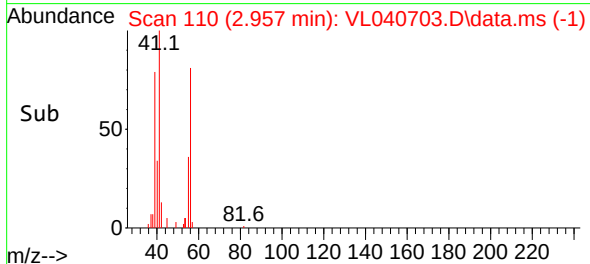
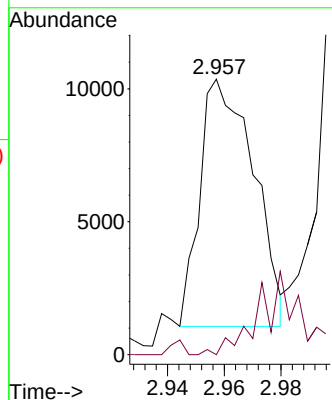
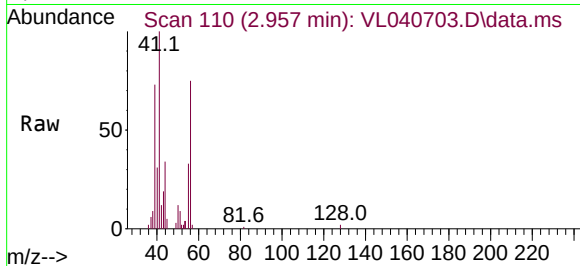




#16
1,3-Butadiene
Concen: 0.188 ppbv
RT: 2.957 min Scan# 115
Delta R.T. -0.032 min
Lab File: VL040703.D
Acq: 18 Sep 2023 17:44

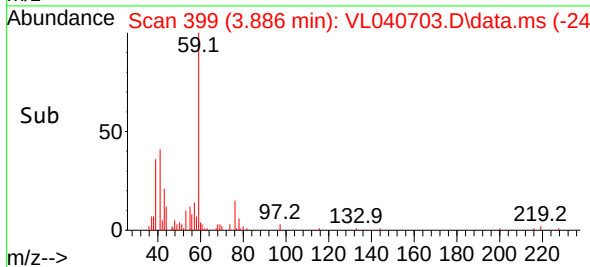
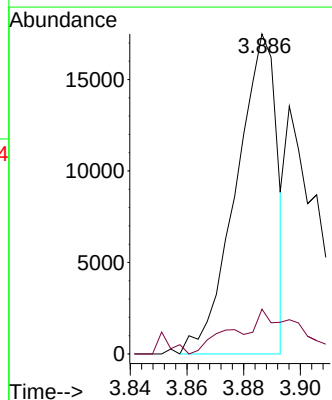
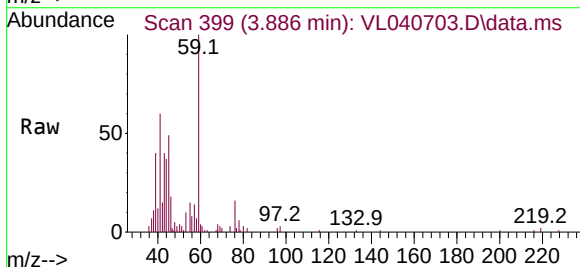
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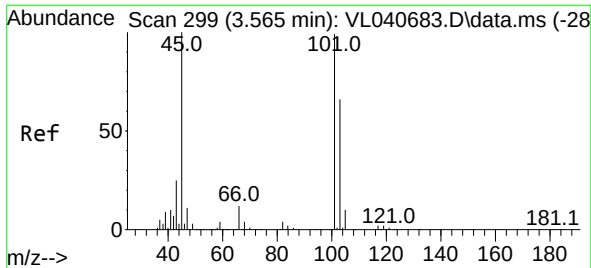
Tgt Ion: 39 Resp: 12207
Ion Ratio Lower Upper
39 100
54 35.6 64.8 97.2#



#17
tert-Butyl alcohol
Concen: 0.115 ppbv
RT: 3.886 min Scan# 399
Delta R.T. 0.003 min
Lab File: VL040703.D
Acq: 18 Sep 2023 17:44

Tgt Ion: 59 Resp: 17568
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#

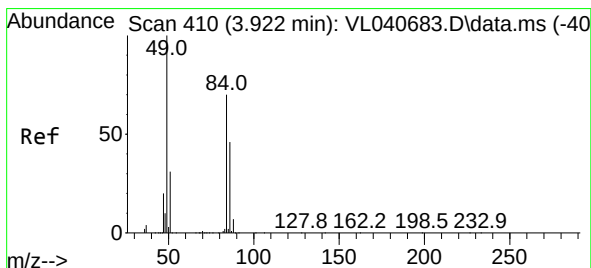
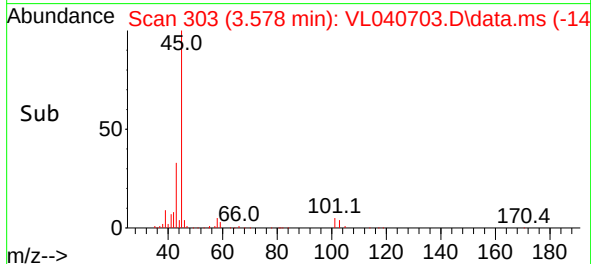
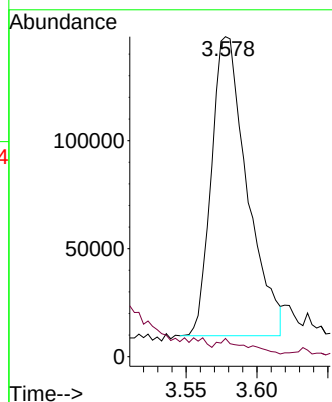
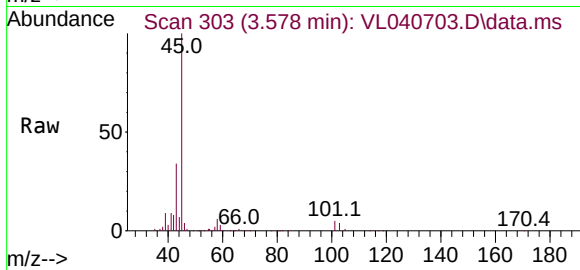




#19
Isopropyl Alcohol
Concen: 2.701 ppbv
RT: 3.578 min Scan# 303
Delta R.T. 0.000 min
Lab File: VL040703.D
Acq: 18 Sep 2023 17:44

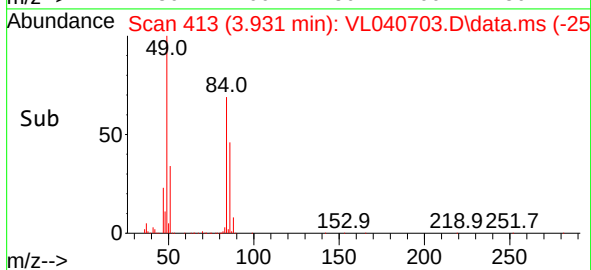
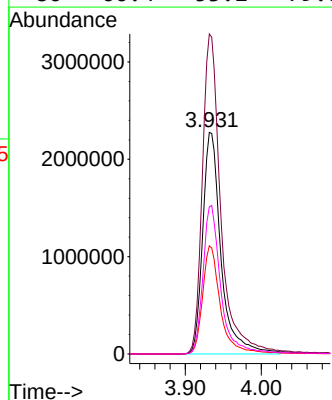
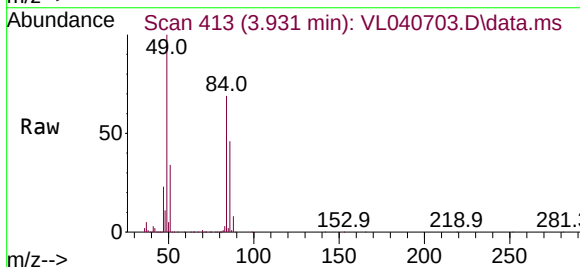
Instrument :
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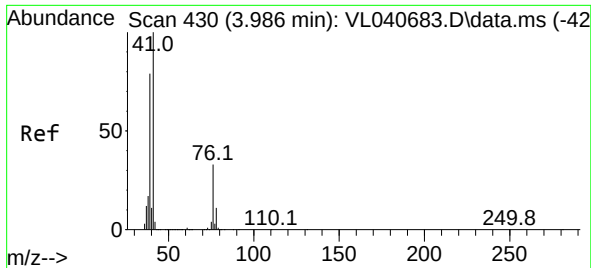
Tgt Ion: 45 Resp: 242619
Ion Ratio Lower Upper
45 100
58 250.9 1.9 2.9#



#20
Methylene Chloride
Concen: 47.529 ppbv
RT: 3.931 min Scan# 413
Delta R.T. -0.006 min
Lab File: VL040703.D
Acq: 18 Sep 2023 17:44

Tgt Ion: 84 Resp: 3813812
Ion Ratio Lower Upper
84 100
49 144.4 114.4 171.6
51 48.8 35.5 53.3
86 66.4 53.2 79.8

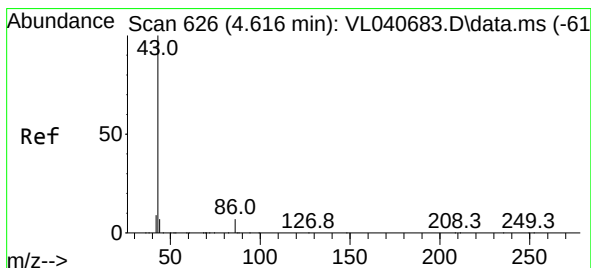
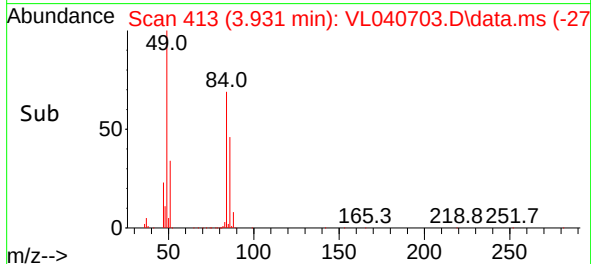
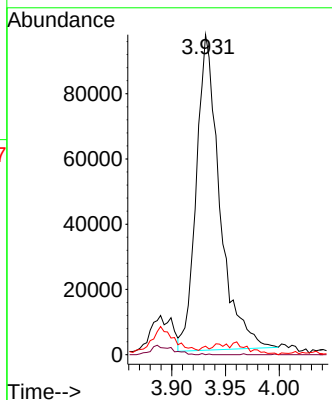
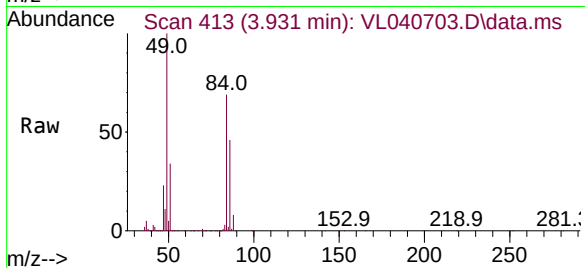




#21
 Allyl Chloride
 Concen: 1.604 ppbv
 RT: 3.931 min Scan# 41
 Delta R.T. -0.071 min
 Lab File: VL040703.D
 Acq: 18 Sep 2023 17:44

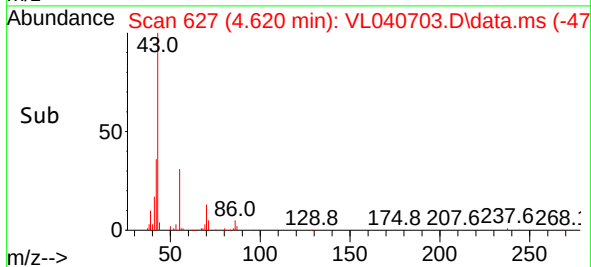
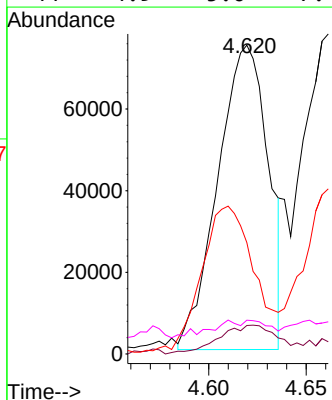
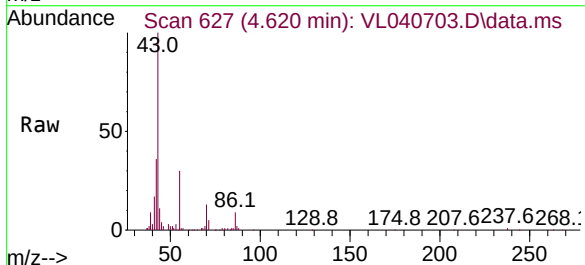
Instrument :
 MSVOA_L
 ClientSampleId :
 ST-4

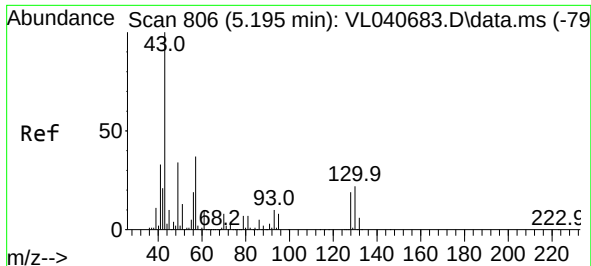
Tgt Ion: 41 Resp: 146520
 Ion Ratio Lower Upper
 41 100
 76 0.0 26.6 40.0#
 39 4.6 65.0 97.4#



#23
 Vinyl Acetate
 Concen: 0.870 ppbv
 RT: 4.620 min Scan# 627
 Delta R.T. -0.013 min
 Lab File: VL040703.D
 Acq: 18 Sep 2023 17:44

Tgt Ion: 43 Resp: 134117
 Ion Ratio Lower Upper
 43 100
 86 8.6 5.6 8.4#
 42 32.1 7.6 11.4#
 44 4.9 5.0 7.4#





#25

Ethyl Acetate

Concen: 7.742 ppbv

RT: 5.218 min Scan# 813

Delta R.T. 0.007 min

Lab File: VL040703.D

Acq: 18 Sep 2023 17:44

Instrument :

MSVOA_L

ClientSampleId :

ST-4

Tgt Ion: 43 Resp: 1861637

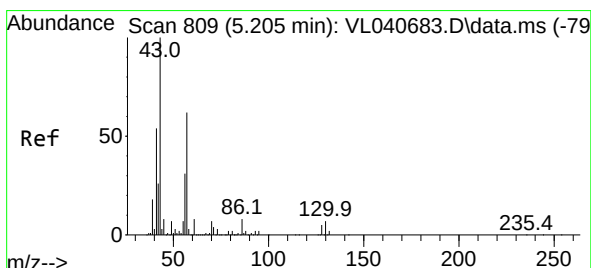
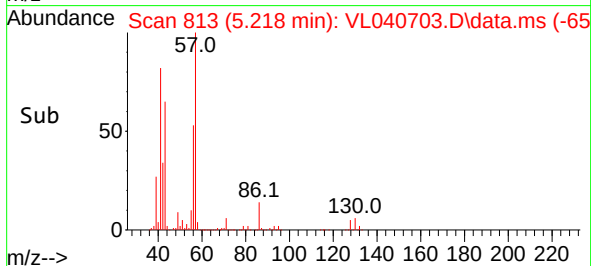
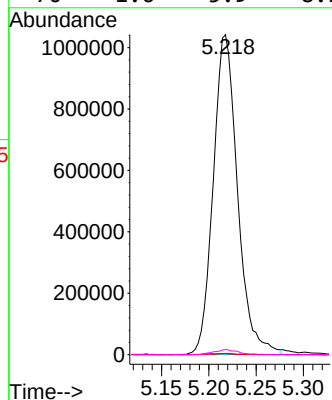
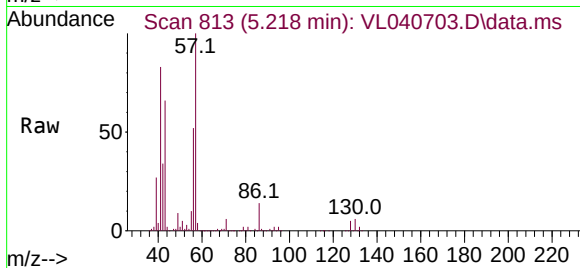
Ion Ratio Lower Upper

43 100

45 0.4 8.2 12.4#

61 0.4 8.2 12.4#

70 1.6 5.9 8.9#



#26

Hexane

Concen: 24.768 ppbv

RT: 5.218 min Scan# 813

Delta R.T. -0.003 min

Lab File: VL040703.D

Acq: 18 Sep 2023 17:44

Tgt Ion: 57 Resp: 2815991

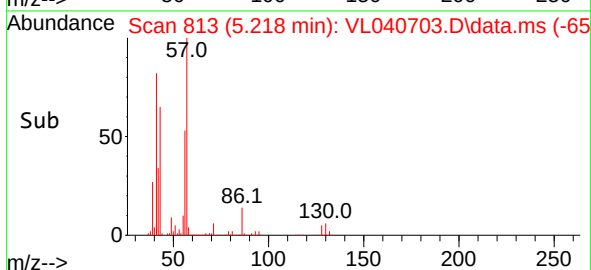
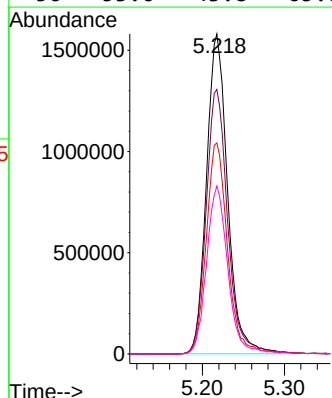
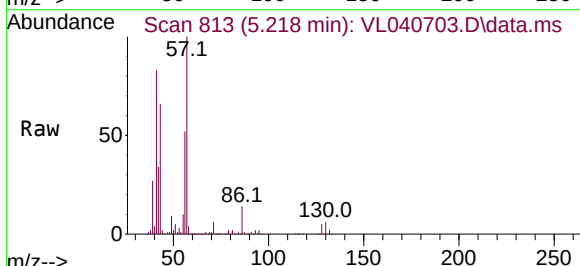
Ion Ratio Lower Upper

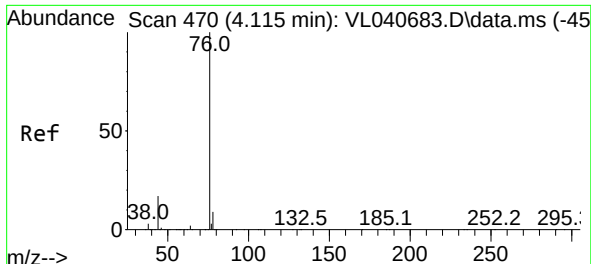
57 100

41 85.3 75.2 112.8

43 67.1 185.6 278.4#

56 53.6 43.8 65.8

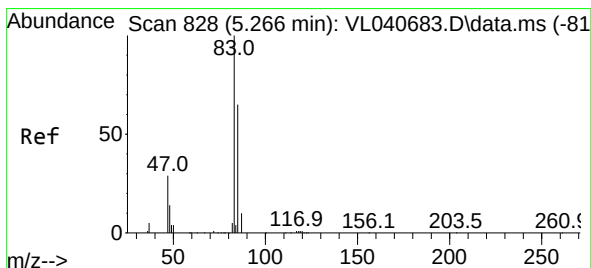
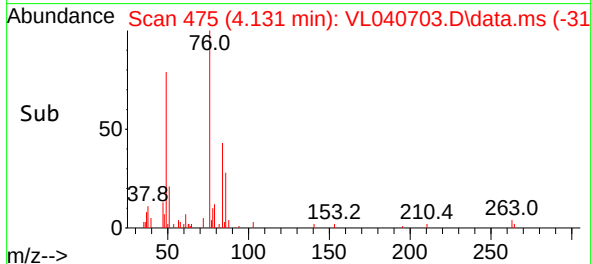
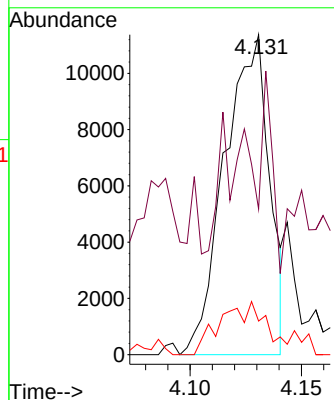
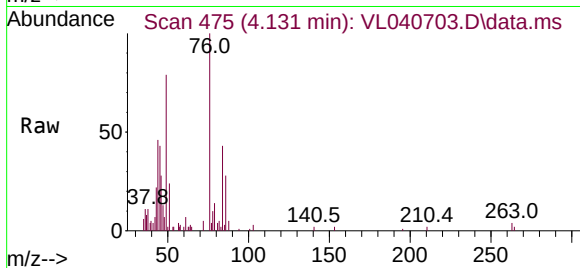




#27
Carbon Disulfide
Concen: 0.100 ppbv
RT: 4.131 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL040703.D
Acq: 18 Sep 2023 17:44

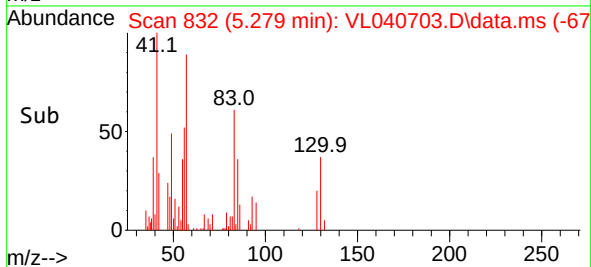
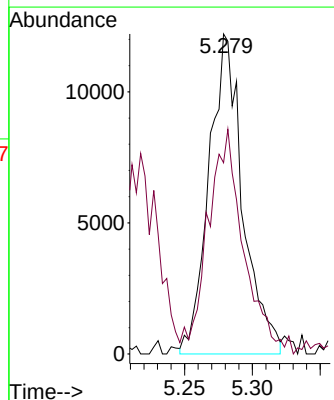
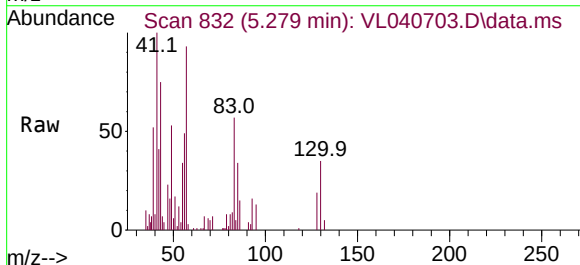
Instrument :
MSVOA_L
ClientSampleId :
ST-4

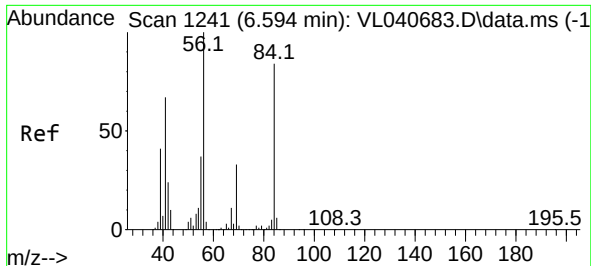
Tgt Ion: 76 Resp: 15847
Ion Ratio Lower Upper
76 100
44 73.3 14.5 21.7#
78 19.5 7.7 11.5#



#29
Chloroform
Concen: 0.108 ppbv
RT: 5.279 min Scan# 832
Delta R.T. -0.003 min
Lab File: VL040703.D
Acq: 18 Sep 2023 17:44

Tgt Ion: 83 Resp: 21139
Ion Ratio Lower Upper
83 100
85 57.2 51.8 77.8

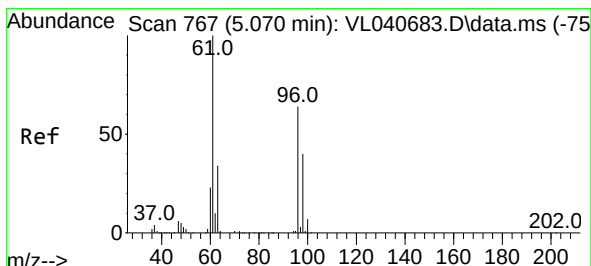
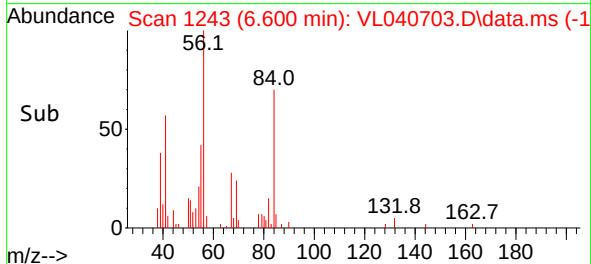
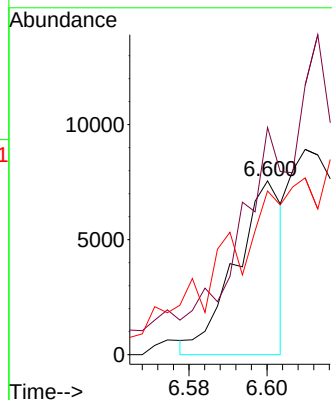
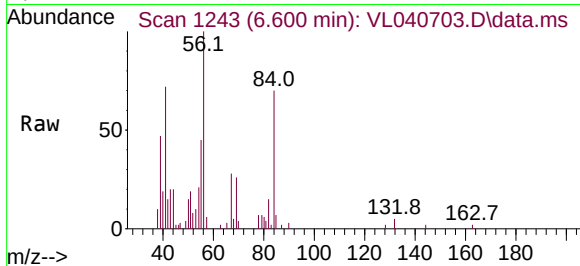




#30
Cyclohexane
Concen: 0.073 ppbv
RT: 6.600 min Scan# 11
Delta R.T. -0.010 min
Lab File: VL040703.D
Acq: 18 Sep 2023 17:44

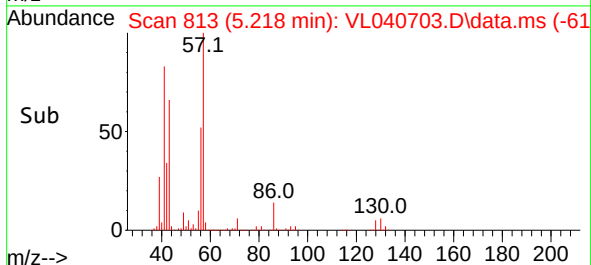
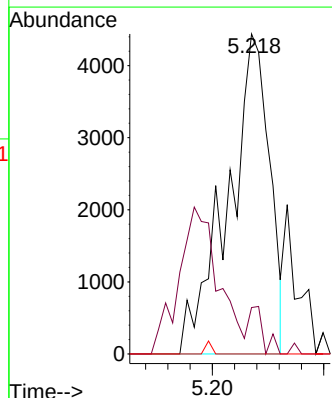
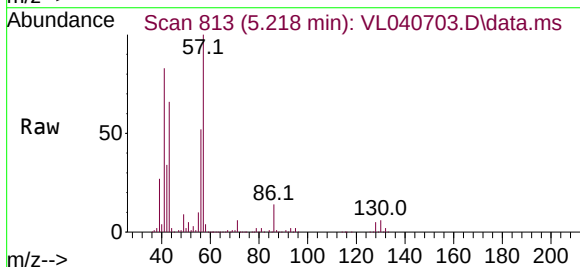
Instrument :
MSVOA_L
ClientSampleId :
ST-4

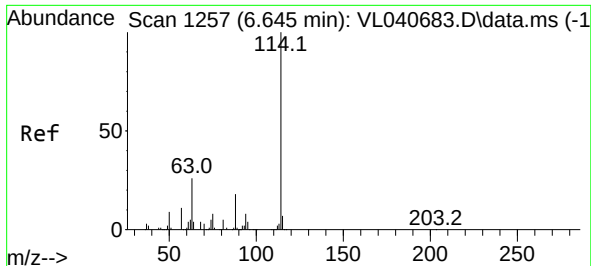
Tgt Ion: 84 Resp: 6234
Ion Ratio Lower Upper
84 100
56 0.0 103.2 154.8#
41 0.0 65.5 98.3#



#31
cis-1,2-Dichloroethene
Concen: 0.055 ppbv
RT: 5.218 min Scan# 813
Delta R.T. 0.132 min
Lab File: VL040703.D
Acq: 18 Sep 2023 17:44

Tgt Ion: 61 Resp: 5758
Ion Ratio Lower Upper
61 100
96 14.5 51.2 76.8#
98 0.0 32.3 48.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.658 min Scan# 1

Delta R.T. -0.003 min

Lab File: VL040703.D

Acq: 18 Sep 2023 17:44

Instrument :

MSVOA_L

ClientSampleId :

ST-4

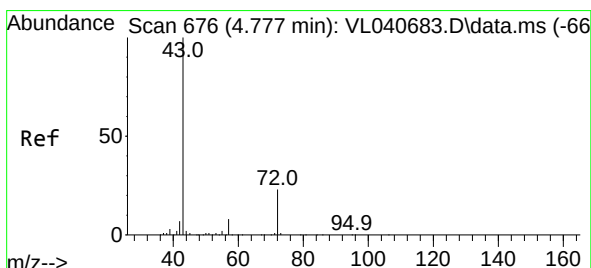
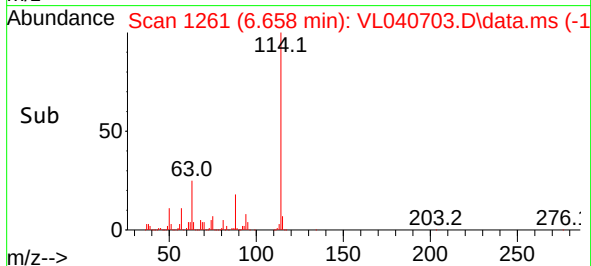
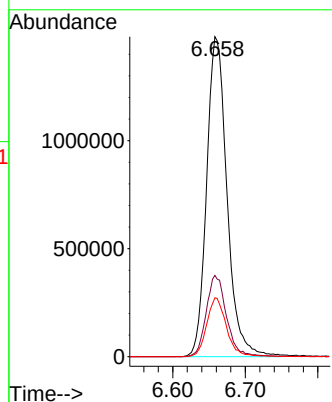
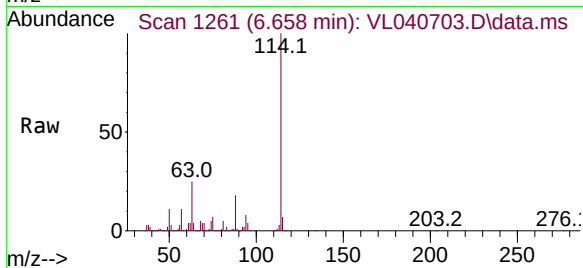
Tgt Ion:114 Resp: 2891155

Ion Ratio Lower Upper

114 100

63 25.5 21.1 31.7

88 17.9 14.5 21.7



#34

2-Butanone

Concen: 0.974 ppbv

RT: 4.793 min Scan# 681

Delta R.T. 0.003 min

Lab File: VL040703.D

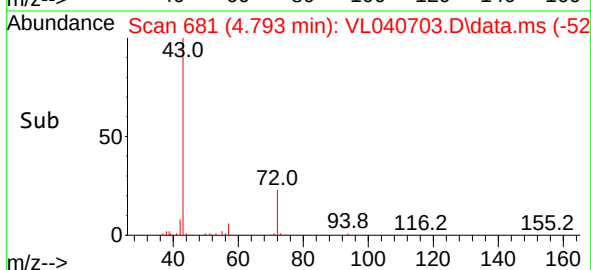
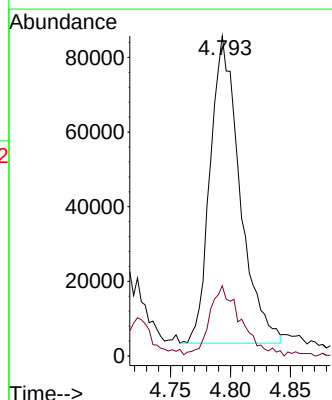
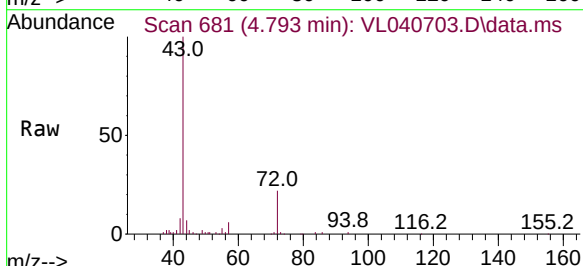
Acq: 18 Sep 2023 17:44

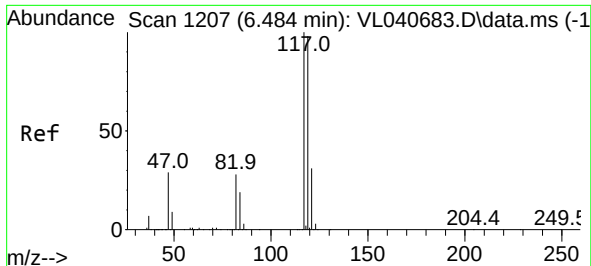
Tgt Ion: 43 Resp: 141667

Ion Ratio Lower Upper

43 100

72 25.8 18.6 27.8

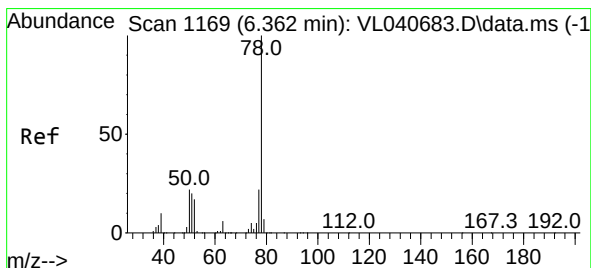
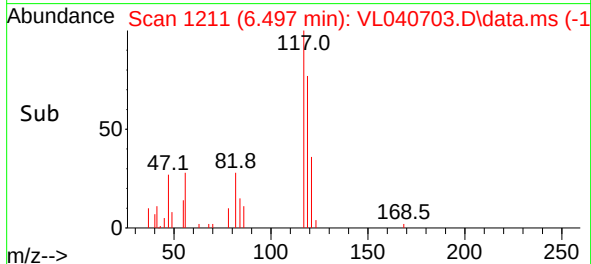
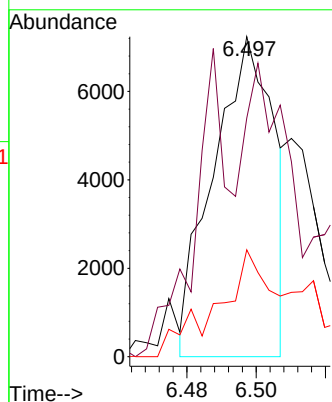
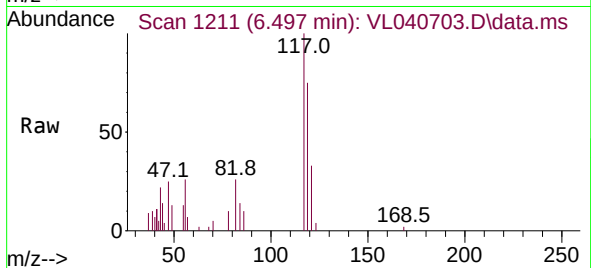




#35
Carbon Tetrachloride
Concen: 0.044 ppbv
RT: 6.497 min Scan# 1174
Delta R.T. -0.006 min
Lab File: VL040703.D
Acq: 18 Sep 2023 17:44

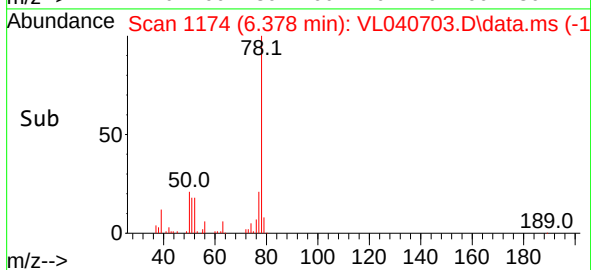
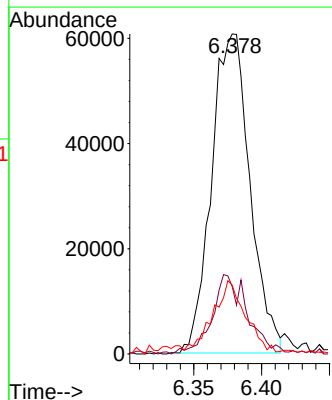
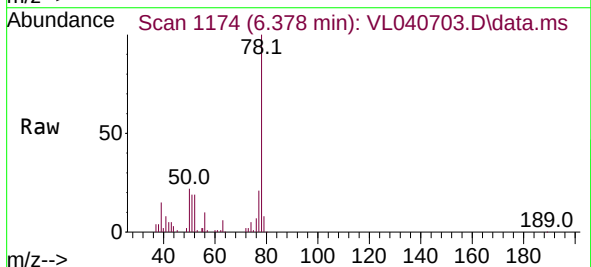
Instrument :
MSVOA_L
ClientSampleId :
ST-4

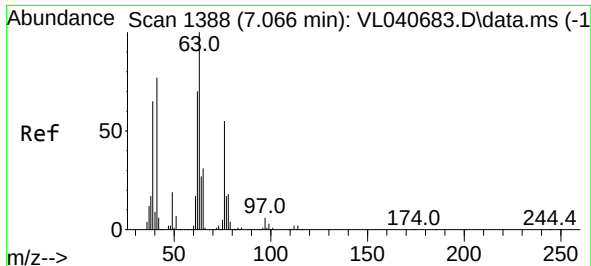
Tgt Ion:117 Resp: 8763
Ion Ratio Lower Upper
117 100
119 51.0 78.6 117.8#
121 28.8 24.7 37.1



#36
Benzene
Concen: 0.560 ppbv
RT: 6.378 min Scan# 1174
Delta R.T. -0.003 min
Lab File: VL040703.D
Acq: 18 Sep 2023 17:44

Tgt Ion: 78 Resp: 119807
Ion Ratio Lower Upper
78 100
77 19.4 17.9 26.9
50 20.8 17.3 25.9





#39

1,2-Dichloropropane

Concen: 0.168 ppbv

RT: 6.703 min Scan# 11

Delta R.T. -0.379 min

Lab File: VL040703.D

Acq: 18 Sep 2023 17:44

Instrument :

MSVOA_L

ClientSampleId :

ST-4

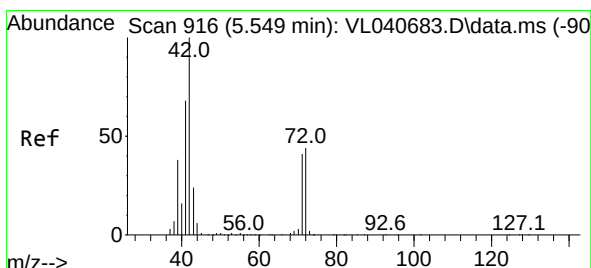
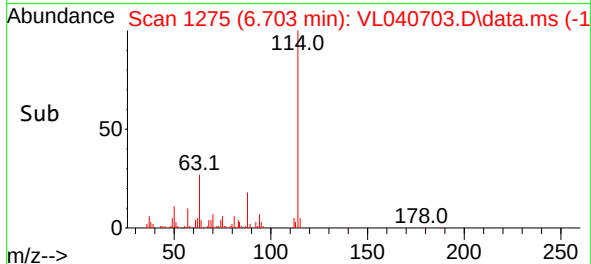
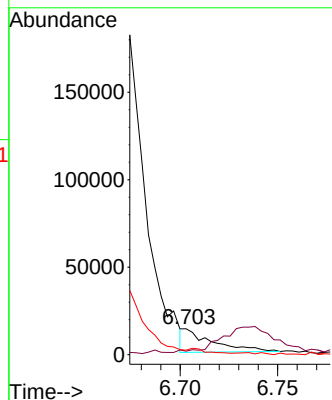
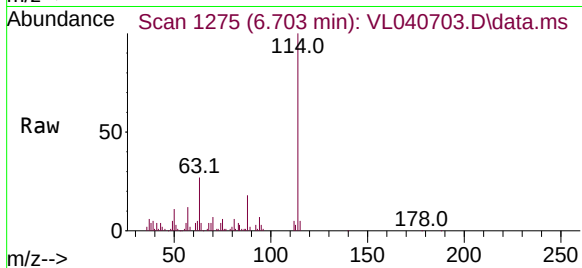
Tgt Ion: 63 Resp: 13829

Ion Ratio Lower Upper

63 100

41 0.0 61.6 92.4#

62 12.3 55.8 83.8#



#41

Tetrahydrofuran

Concen: 13.064 ppbv

RT: 5.218 min Scan# 813

Delta R.T. -0.344 min

Lab File: VL040703.D

Acq: 18 Sep 2023 17:44

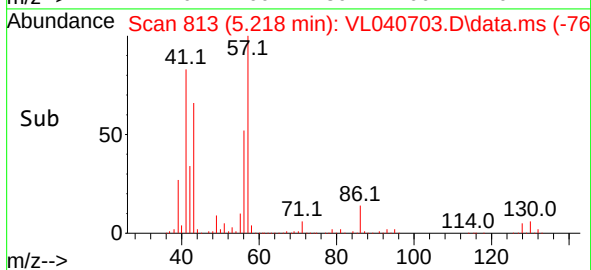
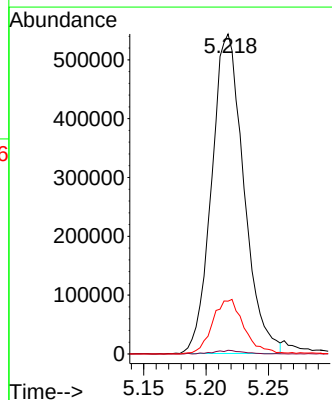
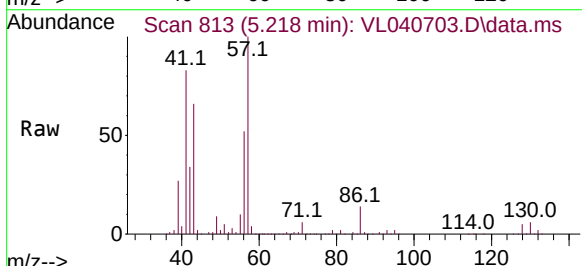
Tgt Ion: 42 Resp: 974043

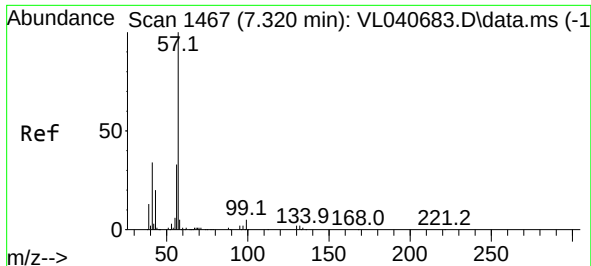
Ion Ratio Lower Upper

42 100

72 1.0 34.9 52.3#

71 17.1 33.8 50.8#





#44

2,2,4-Trimethylpentane

Concen: 0.399 ppbv

RT: 7.336 min Scan# 1467

Delta R.T. 0.000 min

Lab File: VL040703.D

Acq: 18 Sep 2023 17:44

Instrument :

MSVOA_L

ClientSampleId :

ST-4

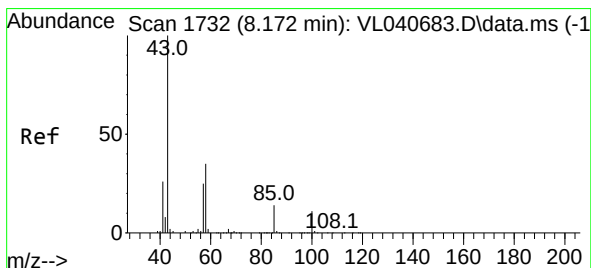
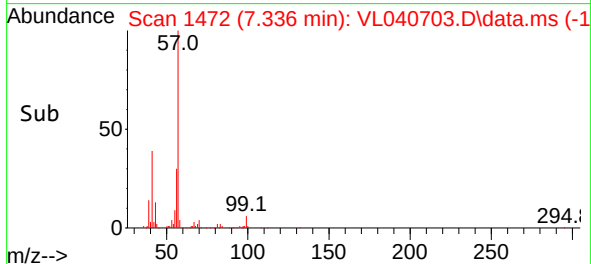
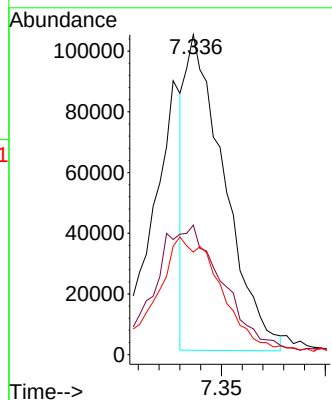
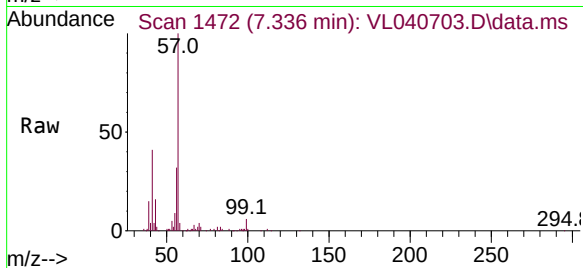
Tgt Ion: 57 Resp: 135909

Ion Ratio Lower Upper

57 100

41 78.8 28.5 42.7#

56 0.0 25.4 38.2#



#50

4-Methyl-2-Pentanone

Concen: 0.764 ppbv

RT: 8.205 min Scan# 1742

Delta R.T. 0.013 min

Lab File: VL040703.D

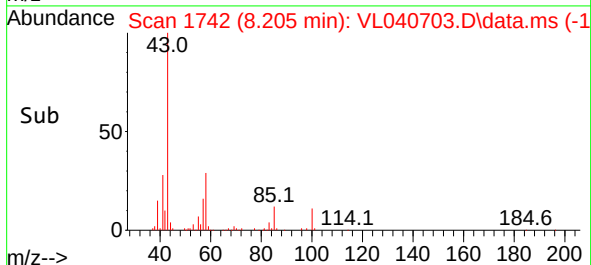
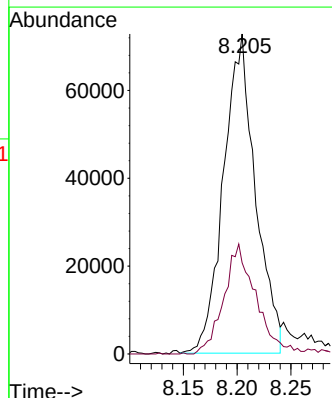
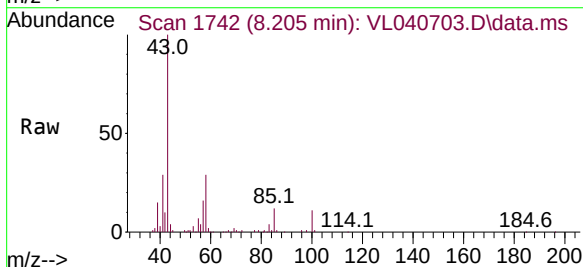
Acq: 18 Sep 2023 17:44

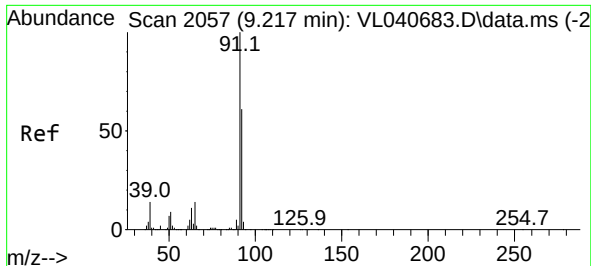
Tgt Ion: 43 Resp: 150064

Ion Ratio Lower Upper

43 100

58 35.5 28.2 42.4

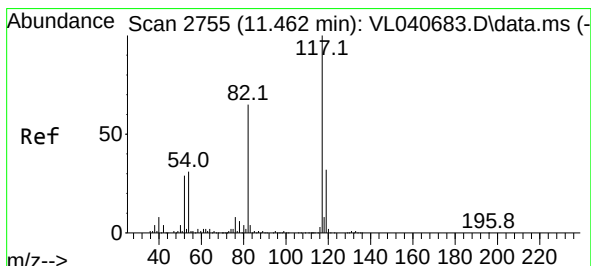
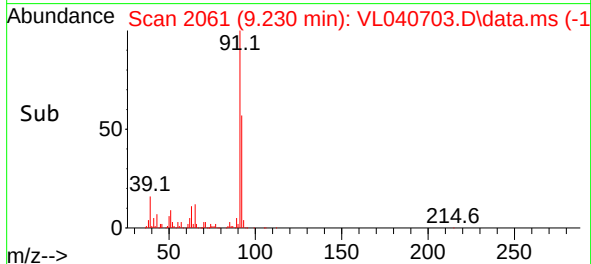
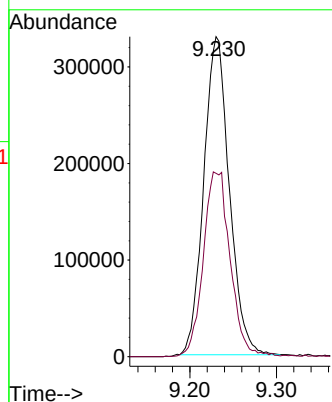
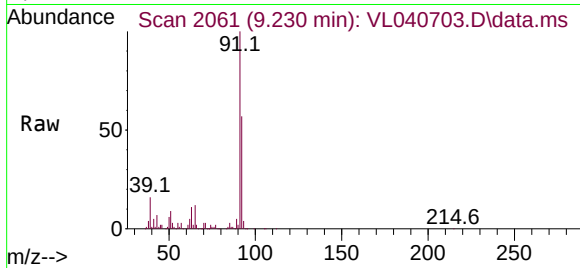




#53
Toluene
Concen: 2.988 ppbv
RT: 9.230 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VL040703.D
Acq: 18 Sep 2023 17:44

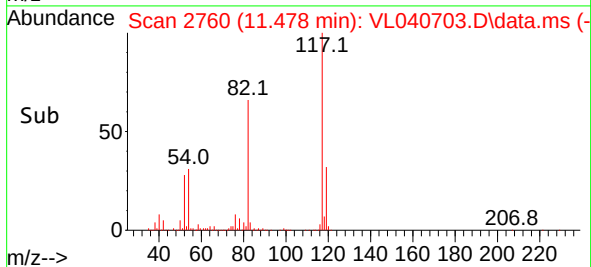
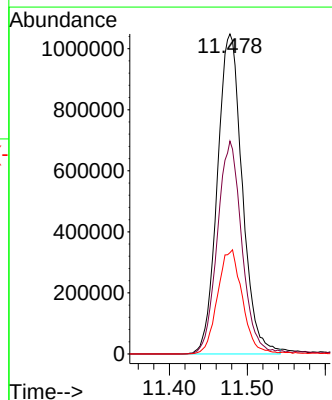
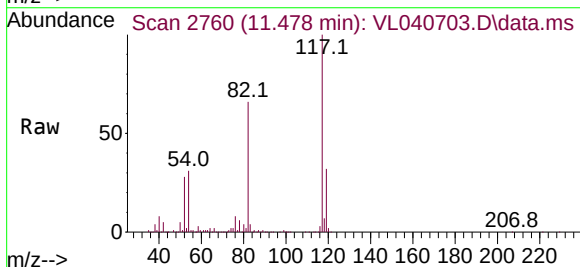
Instrument :
MSVOA_L
ClientSampleId :
ST-4

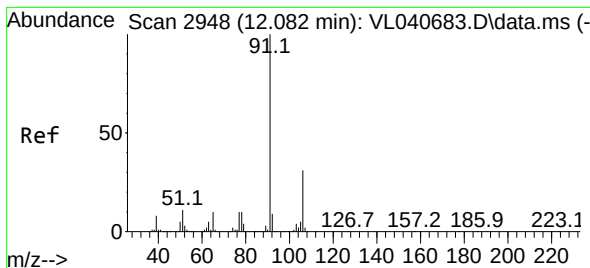
Tgt Ion: 91 Resp: 675317
Ion Ratio Lower Upper
91 100
92 61.4 48.5 72.7



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.478 min Scan# 2760
Delta R.T. 0.000 min
Lab File: VL040703.D
Acq: 18 Sep 2023 17:44

Tgt Ion: 117 Resp: 2334767
Ion Ratio Lower Upper
117 100
82 66.5 51.4 77.0
119 32.8 24.7 37.1





#58

Ethyl Benzene

Concen: 0.103 ppbv

RT: 12.105 min Scan# 2941

Delta R.T. 0.003 min

Lab File: VL040703.D

Acq: 18 Sep 2023 17:44

Instrument :

MSVOA_L

ClientSampleId :

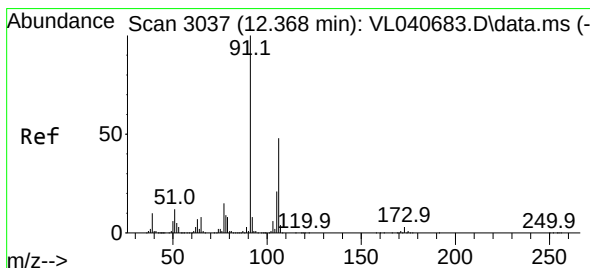
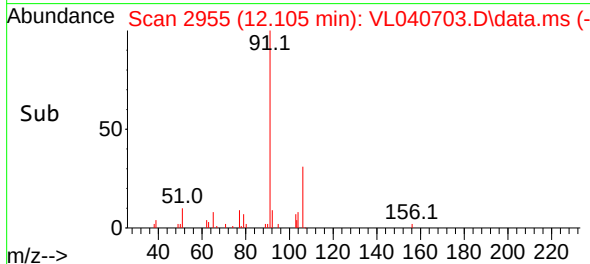
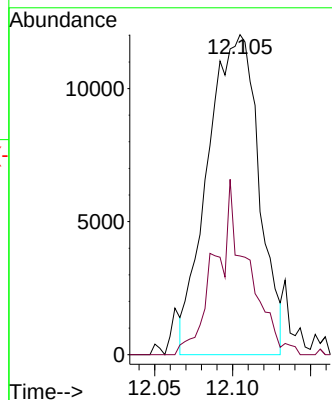
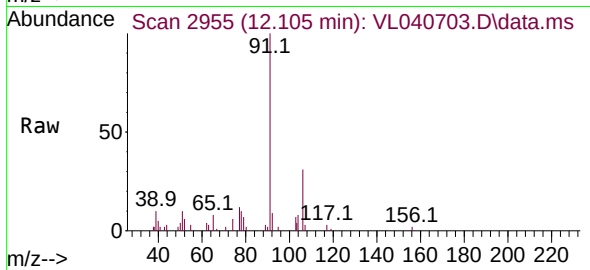
ST-4

Tgt Ion: 91 Resp: 27521

Ion Ratio Lower Upper

91 100

106 32.3 24.7 37.1



#59

m/p-Xylene

Concen: 0.085 ppbv

RT: 12.381 min Scan# 3041

Delta R.T. 0.000 min

Lab File: VL040703.D

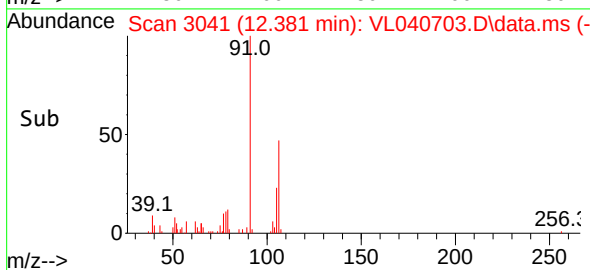
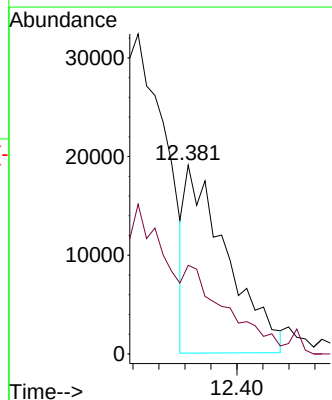
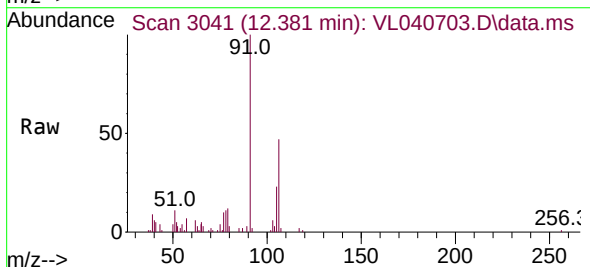
Acq: 18 Sep 2023 17:44

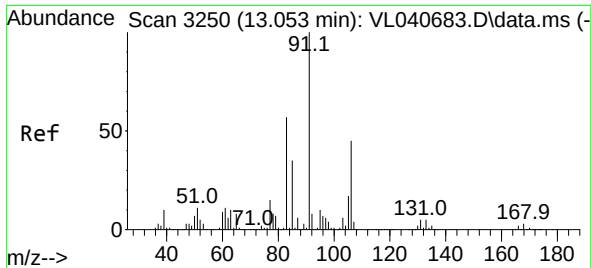
Tgt Ion: 91 Resp: 21307

Ion Ratio Lower Upper

91 100

106 0.0 34.8 52.2#

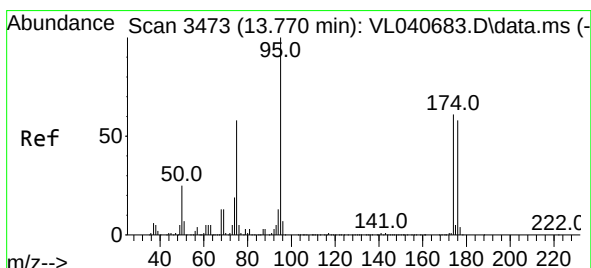
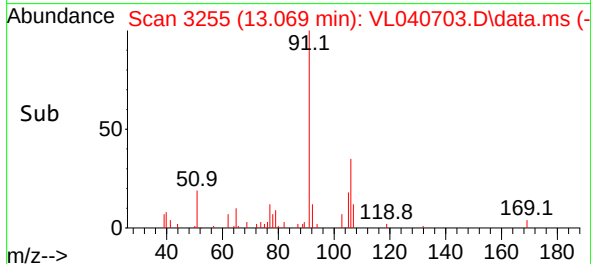
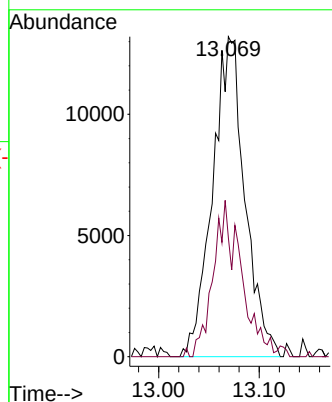
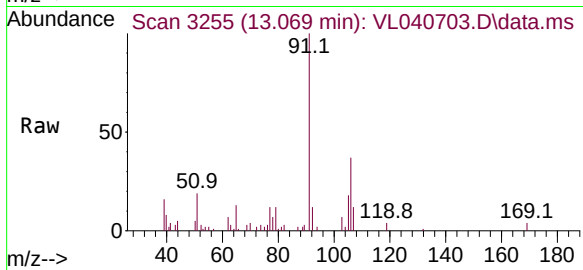




#60
o-Xylene
Concen: 0.125 ppbv
RT: 13.069 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL040703.D
Acq: 18 Sep 2023 17:44

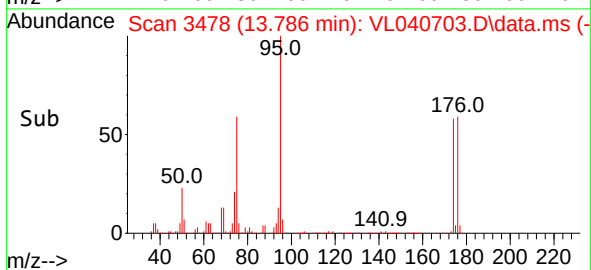
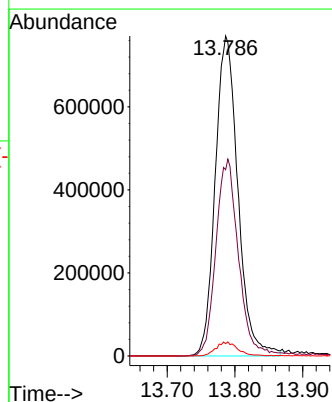
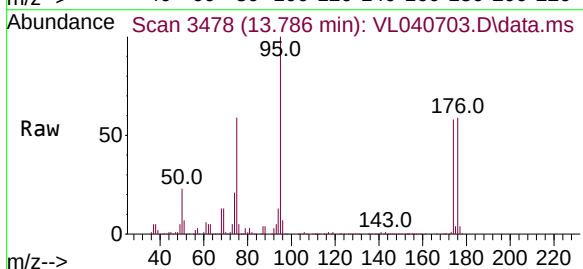
Instrument :
MSVOA_L
ClientSampleId :
ST-4

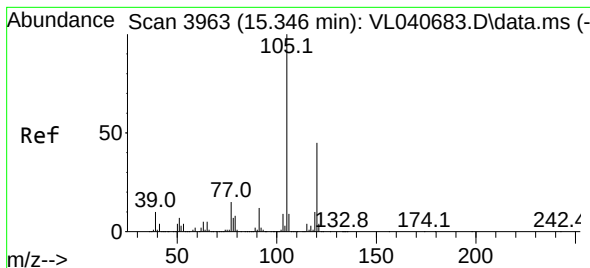
Tgt Ion: 91 Resp: 29687
Ion Ratio Lower Upper
91 100
106 42.8 22.3 66.9



#68
1-Bromo-4-Fluorobenzene
Concen: 9.938 ppbv
RT: 13.786 min Scan# 3478
Delta R.T. 0.000 min
Lab File: VL040703.D
Acq: 18 Sep 2023 17:44

Tgt Ion: 95 Resp: 1792745
Ion Ratio Lower Upper
95 100
174 61.7 48.9 73.3
175 4.2 3.5 5.3





#73

1,3,5-Trimethylbenzene

Concen: 0.034 ppbv

RT: 15.359 min Scan# 3967

Delta R.T. -0.003 min

Lab File: VL040703.D

Acq: 18 Sep 2023 17:44

Instrument :

MSVOA_L

ClientSampleId :

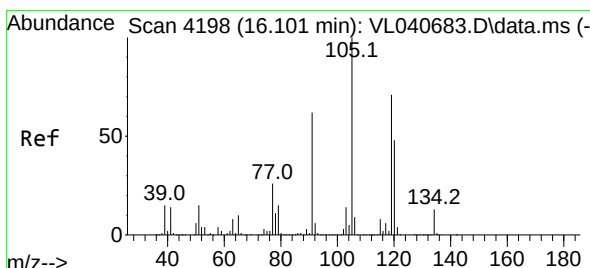
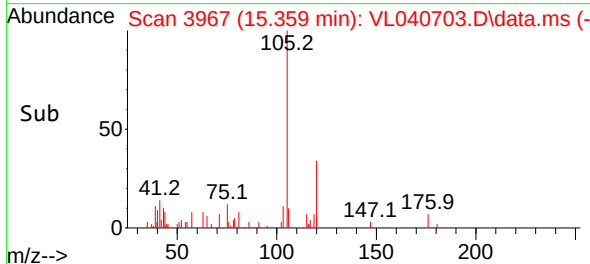
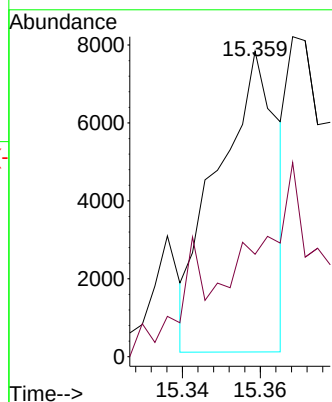
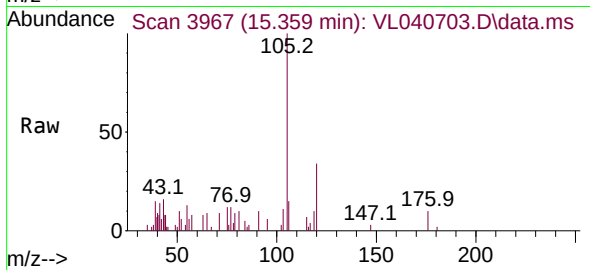
ST-4

Tgt Ion:105 Resp: 8213

Ion Ratio Lower Upper

105 100

120 29.5 36.1 54.1#



#74

1,2,4-Trimethylbenzene

Concen: 0.070 ppbv

RT: 16.114 min Scan# 4202

Delta R.T. -0.003 min

Lab File: VL040703.D

Acq: 18 Sep 2023 17:44

Tgt Ion:105 Resp: 20583

Ion Ratio Lower Upper

105 100

120 45.5 38.6 57.8

91 9.1 50.0 75.0#

77 14.9 20.6 31.0#

