

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020623\
 Data File : VL040146.D
 Acq On : 6 Feb 2023 15:04
 Operator : SY/MD
 Sample : 01438-03 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Feb 07 05:55:48 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 : Tue Jan 31 05:24:57 2023
 Response via : Initial Calibration

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

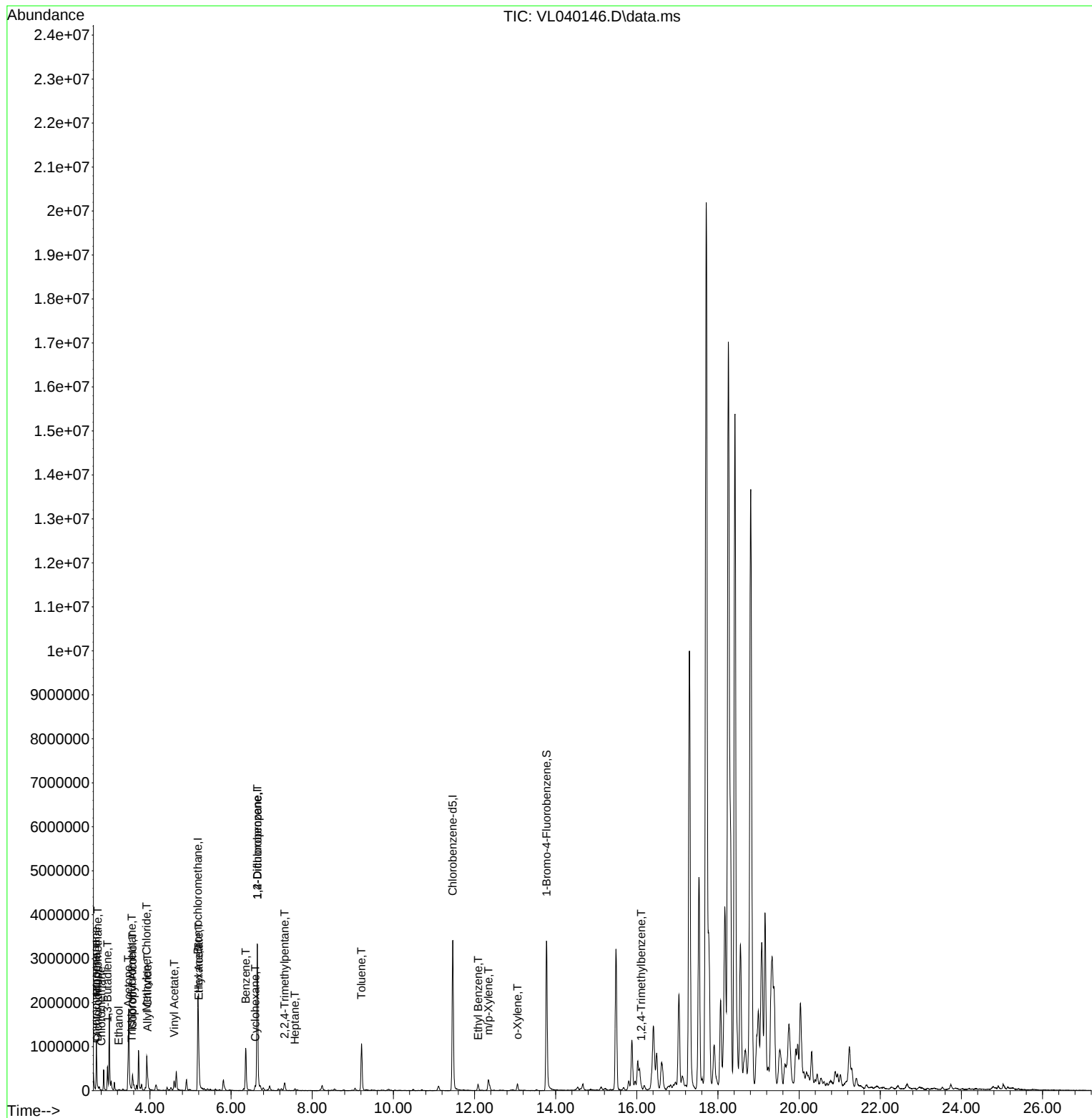
Internal Standards						
1) Bromochloromethane	5.182	49	984330	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.645	114	2630613	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	2257146	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.773	95	1738068	9.265	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.716	85	22606	0.131	ppbv	89
3) Chlorodifluoromethane	2.661	51	10273	0.087	ppbv #	87
4) Chloromethane	2.800	50	5916	0.081	ppbv	94
9) Propene	2.681	41	441858	9.008	ppbv	99
10) Heptane	7.568	43	3467	0.031	ppbv #	27
11) Trichlorofluoromethane	3.552	101	5878	0.034	ppbv	91
13) Ethanol	3.230	45	10983	2.433	ppbv #	38
15) Acetone	3.465	43	455728	3.860	ppbv #	82
16) 1,3-Butadiene	2.954	39	159975	2.907	ppbv #	33
19) Isopropyl Alcohol	3.571	45	381947	6.613	ppbv	99
20) Methylene Chloride	3.922	84	255632	4.908	ppbv	95
21) Allyl Chloride	3.944	41	36556	0.482	ppbv #	61
23) Vinyl Acetate	4.600	43	72081	1.884	ppbv #	1
25) Ethyl Acetate	5.205	43	144589	0.695	ppbv #	76
26) Hexane	5.201	57	213289	2.343	ppbv #	38
30) Cyclohexane	6.600	84	14648	0.202	ppbv #	1
36) Benzene	6.362	78	819599	4.210	ppbv	99
39) 1,2-Dichloropropane	6.645	63	628948	8.260	ppbv #	22
44) 2,2,4-Trimethylpentane	7.320	57	134906	0.417	ppbv #	81
53) Toluene	9.214	91	833479	4.014	ppbv	99
58) Ethyl Benzene	12.089	91	116675	0.463	ppbv	96
59) m/p-Xylene	12.343	91	248159	1.096	ppbv	94
60) o-Xylene	13.056	91	107833	0.502	ppbv	95
74) 1,2,4-Trimethylbenzene	16.111	105	30957	0.130	ppbv #	66

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

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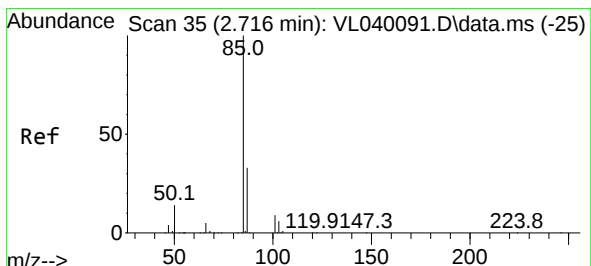
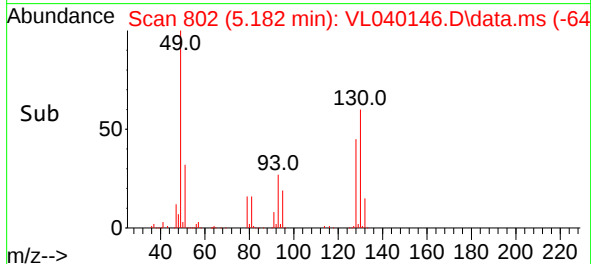
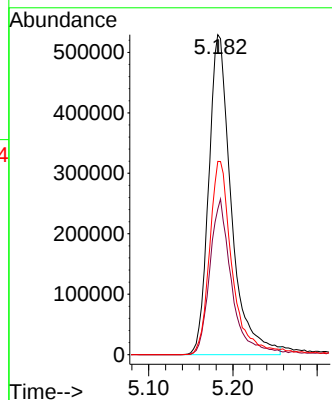
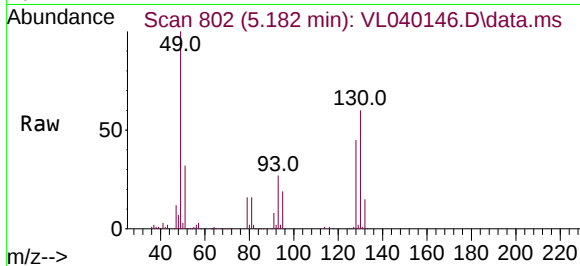




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.182 min Scan# 80
Delta R.T. 0.003 min
Lab File: VL040146.D
Acq: 6 Feb 2023 15:04

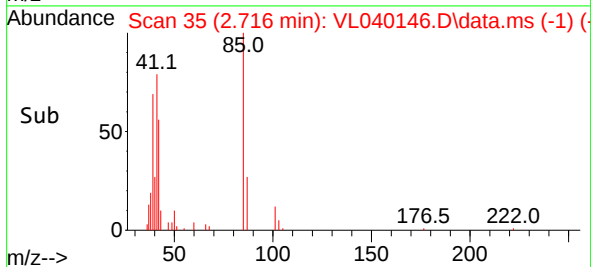
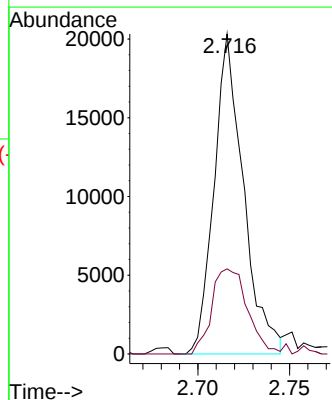
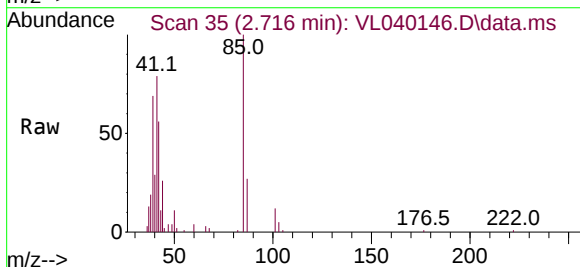
Instrument :
MSVOA_L
ClientSampleId :

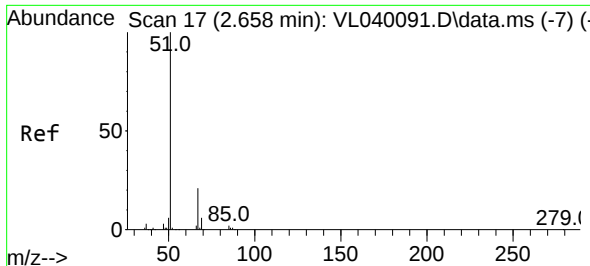
Tgt Ion: 49 Resp: 984330
Ion Ratio Lower Upper
49 100
128 48.9 23.6 71.0
130 62.8 29.8 89.3



#2
Dichlorodifluoromethane
Concen: 0.131 ppbv
RT: 2.716 min Scan# 35
Delta R.T. 0.003 min
Lab File: VL040146.D
Acq: 6 Feb 2023 15:04

Tgt Ion: 85 Resp: 22606
Ion Ratio Lower Upper
85 100
87 26.6 26.5 39.7

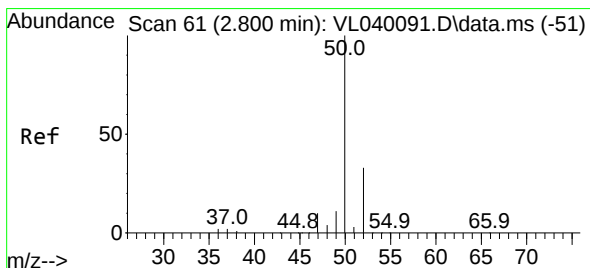
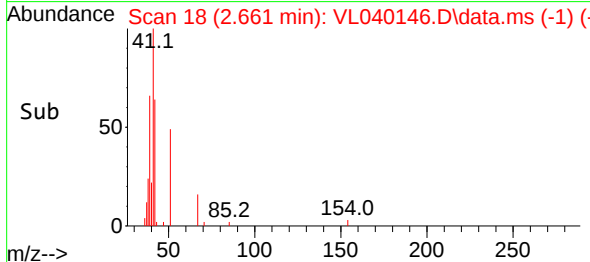
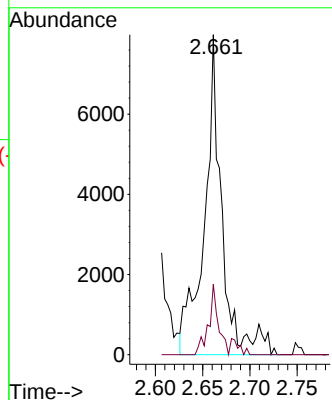
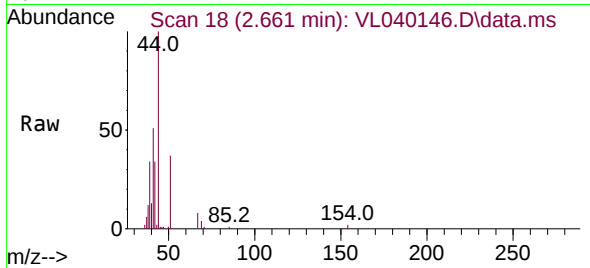




#3
Chlorodifluoromethane
Concen: 0.087 ppbv
RT: 2.661 min Scan# 17
Delta R.T. 0.006 min
Lab File: VL040146.D
Acq: 6 Feb 2023 15:04

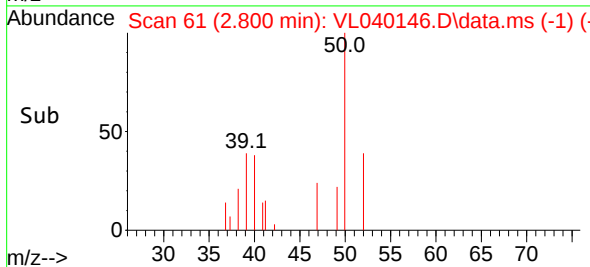
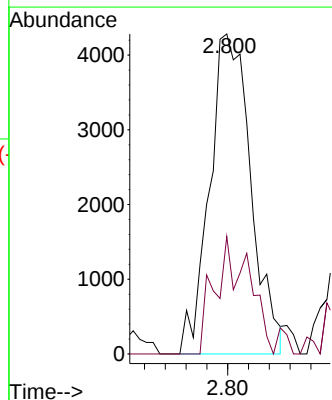
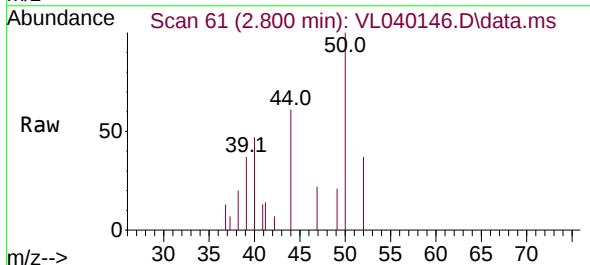
Instrument :
MSVOA_L
ClientSampleId :

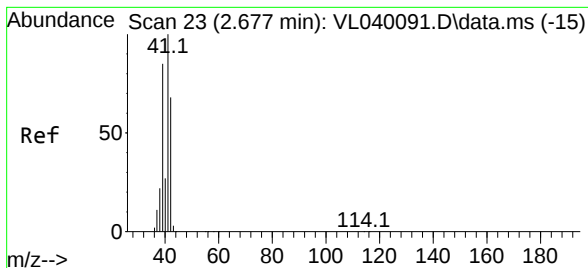
Tgt Ion: 51 Resp: 10273
Ion Ratio Lower Upper
51 100
67 14.7 16.4 24.6#



#4
Chloromethane
Concen: 0.081 ppbv
RT: 2.800 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL040146.D
Acq: 6 Feb 2023 15:04

Tgt Ion: 50 Resp: 5916
Ion Ratio Lower Upper
50 100
52 36.7 26.5 39.7





#9

Propene

Concen: 9.008 ppbv

RT: 2.681 min Scan# 24

Delta R.T. 0.006 min

Lab File: VL040146.D

Acq: 6 Feb 2023 15:04

Instrument :

MSVOA_L

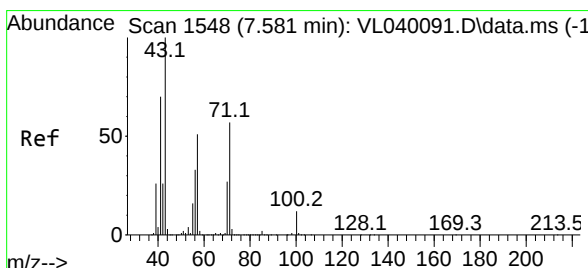
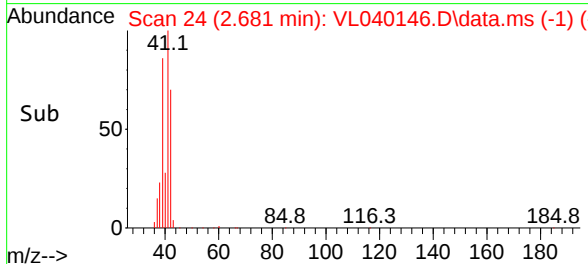
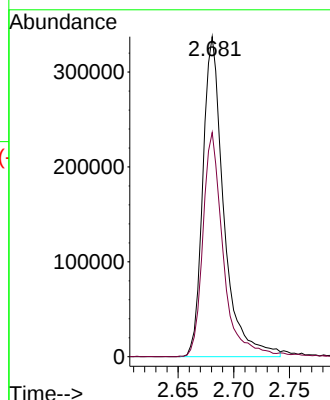
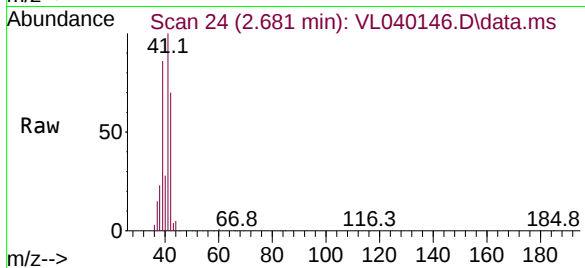
ClientSampleId :

Tgt Ion: 41 Resp: 441858

Ion Ratio Lower Upper

41 100

42 68.9 55.6 83.4



#10

Heptane

Concen: 0.031 ppbv

RT: 7.568 min Scan# 1544

Delta R.T. -0.000 min

Lab File: VL040146.D

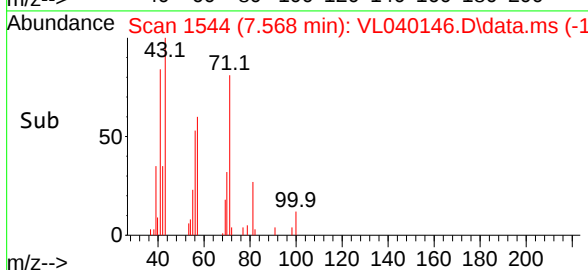
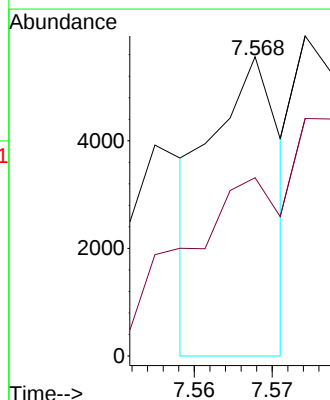
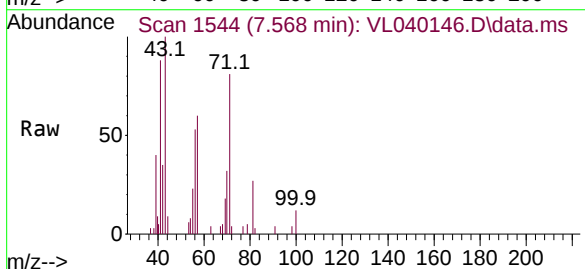
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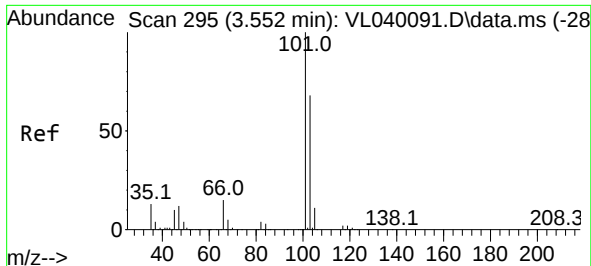
Tgt Ion: 43 Resp: 3467

Ion Ratio Lower Upper

43 100

57 0.0 40.9 61.3#

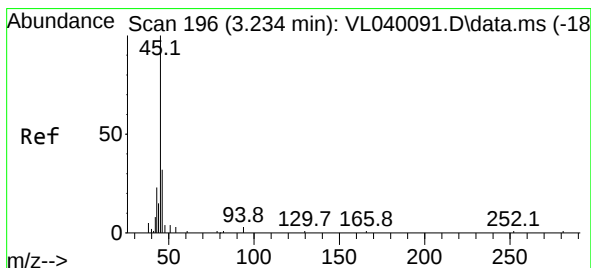
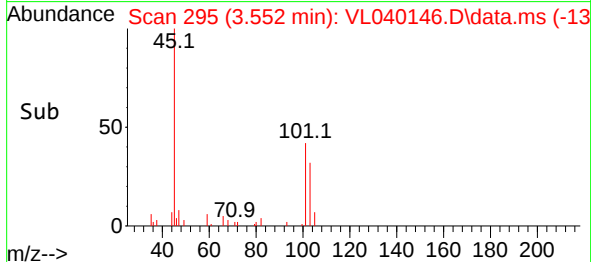
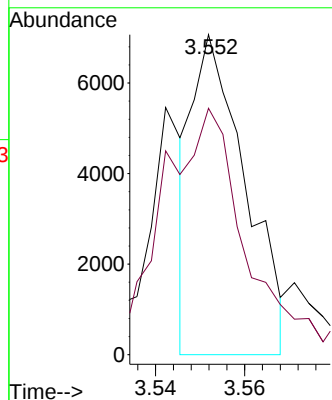
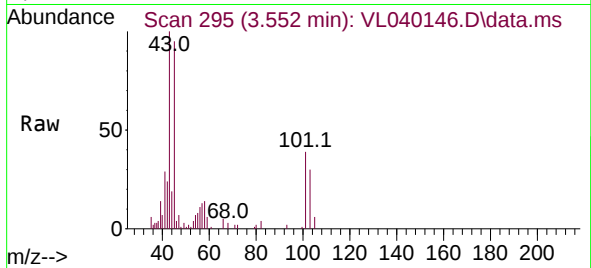




#11
 Trichlorofluoromethane
 Concen: 0.034 ppbv
 RT: 3.552 min Scan# 295
 Delta R.T. 0.006 min
 Lab File: VL040146.D
 Acq: 6 Feb 2023 15:04

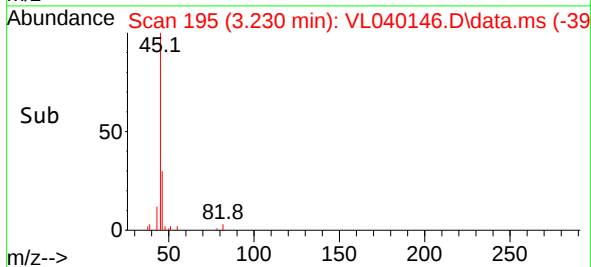
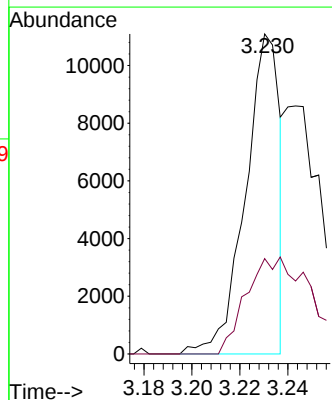
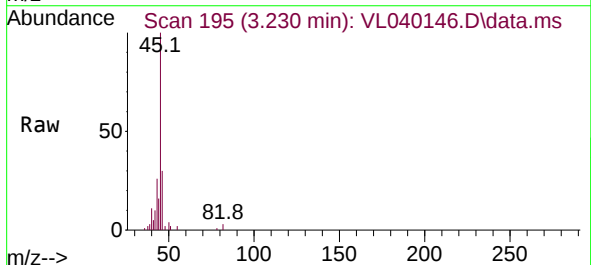
Instrument :
 MSVOA_L
 ClientSampleId :

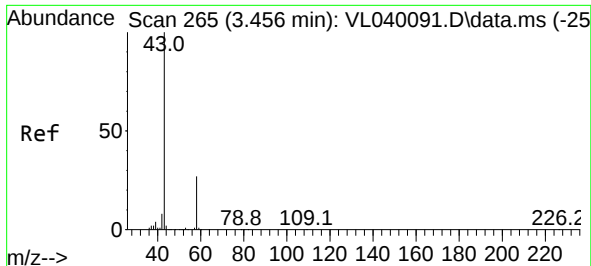
Tgt Ion:101 Resp: 5878
 Ion Ratio Lower Upper
 101 100
 103 74.6 54.0 81.0



#13
 Ethanol
 Concen: 2.433 ppbv
 RT: 3.230 min Scan# 195
 Delta R.T. 0.003 min
 Lab File: VL040146.D
 Acq: 6 Feb 2023 15:04

Tgt Ion: 45 Resp: 10983
 Ion Ratio Lower Upper
 45 100
 46 0.0 14.8 59.2#

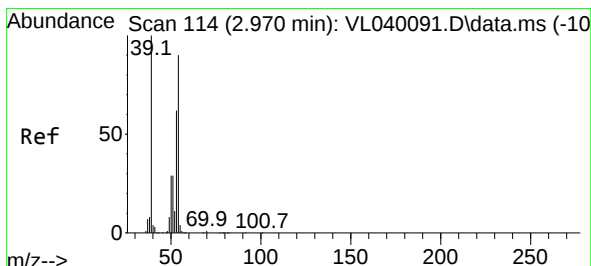
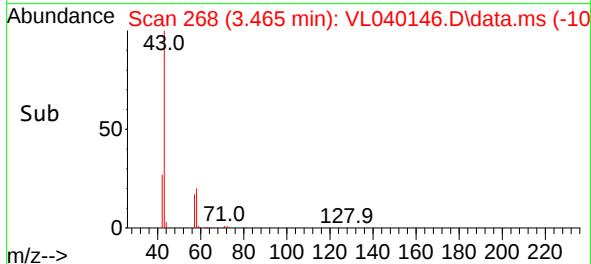
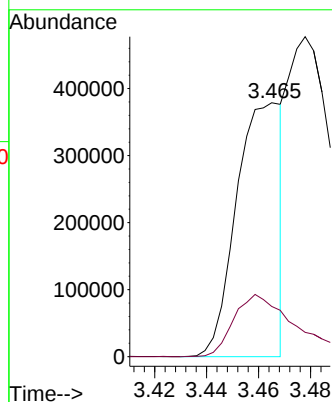
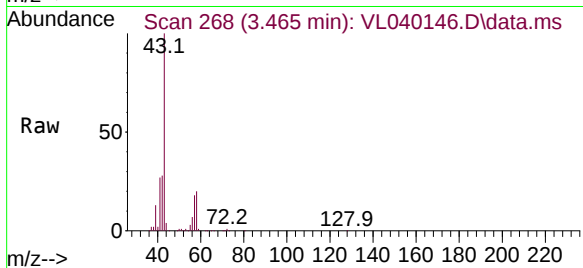




#15
Acetone
Concen: 3.860 ppbv
RT: 3.465 min Scan# 20
Delta R.T. 0.016 min
Lab File: VL040146.D
Acq: 6 Feb 2023 15:04

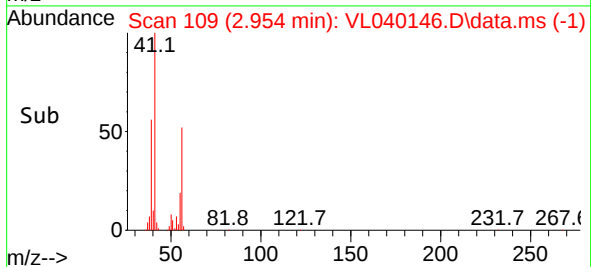
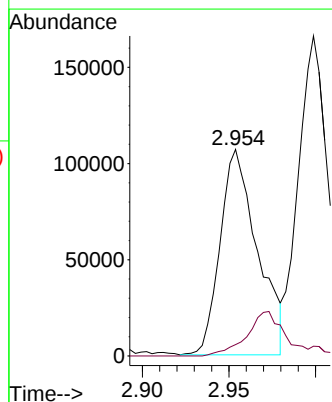
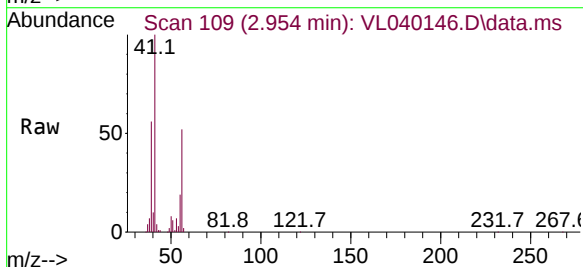
Instrument :
MSVOA_L
ClientSampleId :

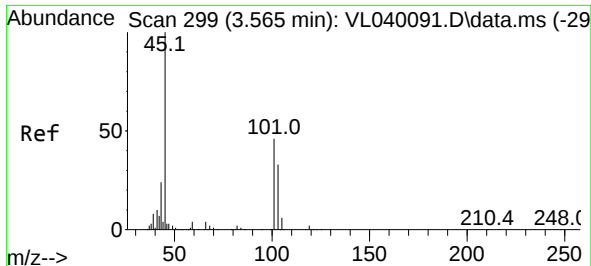
Tgt Ion: 43 Resp: 455728
Ion Ratio Lower Upper
43 100
58 36.9 21.8 32.8#



#16
1,3-Butadiene
Concen: 2.907 ppbv
RT: 2.954 min Scan# 109
Delta R.T. -0.013 min
Lab File: VL040146.D
Acq: 6 Feb 2023 15:04

Tgt Ion: 39 Resp: 159975
Ion Ratio Lower Upper
39 100
54 23.9 67.9 101.9#





#19

Isopropyl Alcohol

Concen: 6.613 ppbv

RT: 3.571 min Scan# 301

Delta R.T. 0.013 min

Lab File: VL040146.D

Acq: 6 Feb 2023 15:04

Instrument :

MSVOA_L

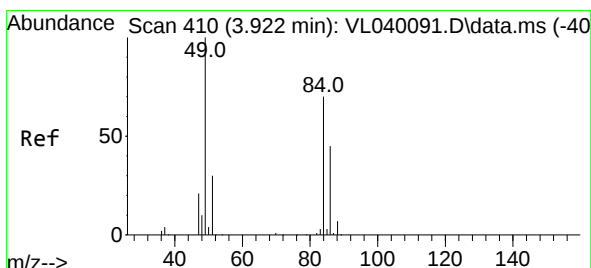
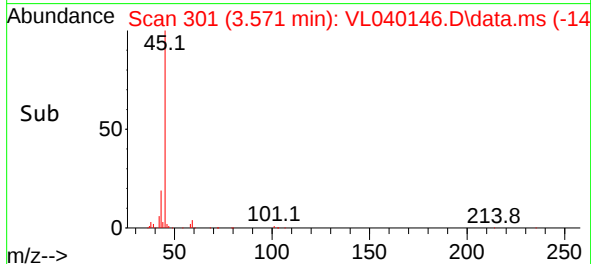
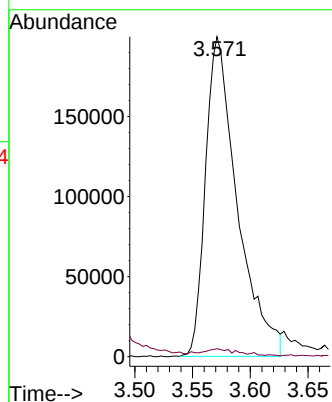
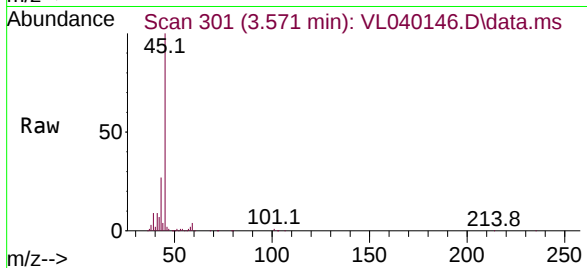
ClientSampleId :

Tgt Ion: 45 Resp: 381947

Ion Ratio Lower Upper

45 100

58 2.9 2.6 4.0



#20

Methylene Chloride

Concen: 4.908 ppbv

RT: 3.922 min Scan# 410

Delta R.T. 0.006 min

Lab File: VL040146.D

Acq: 6 Feb 2023 15:04

Tgt Ion: 84 Resp: 255632

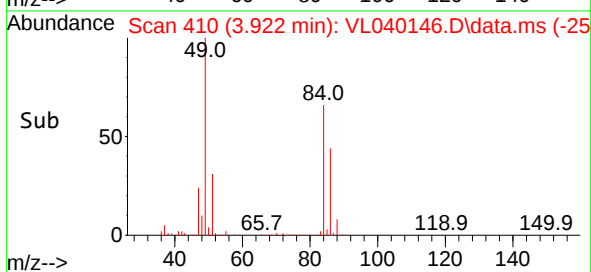
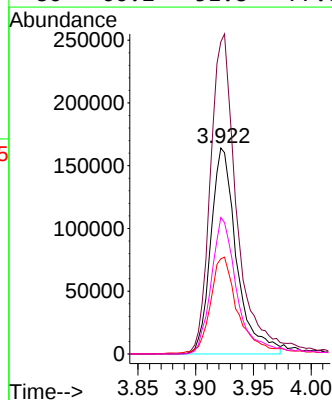
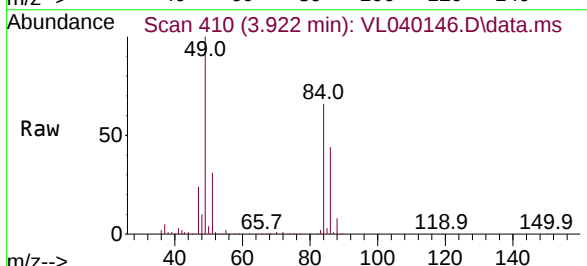
Ion Ratio Lower Upper

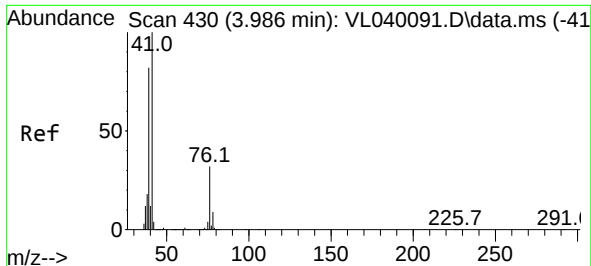
84 100

49 151.4 114.6 171.8

51 45.6 34.3 51.5

86 66.2 51.8 77.8





#21

Allyl Chloride

Concen: 0.482 ppbv

RT: 3.944 min Scan# 41

Delta R.T. -0.035 min

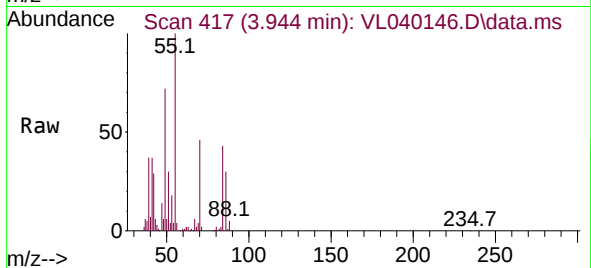
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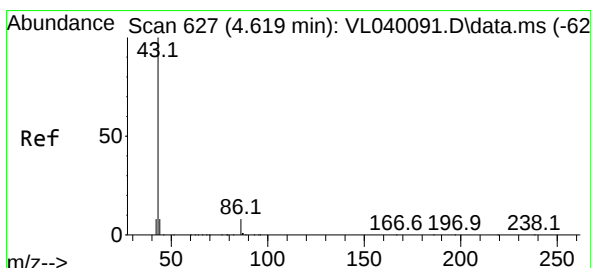
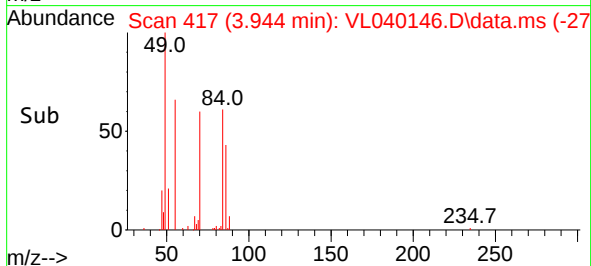
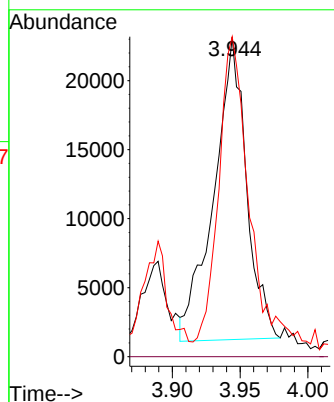
Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:	41	Resp:	36556
Ion Ratio	Lower	Upper	
41	100		
76	0.0	25.9	38.9#
39	112.8	66.8	100.2#



#23

Vinyl Acetate

Concen: 1.884 ppbv

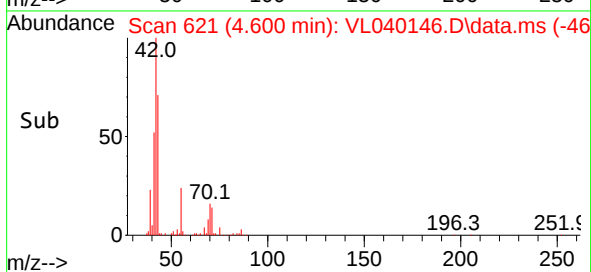
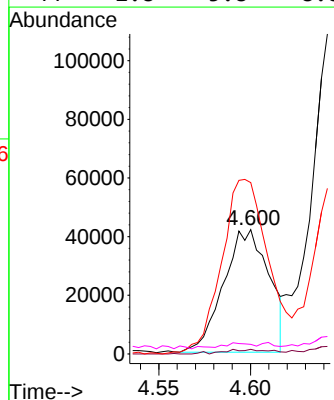
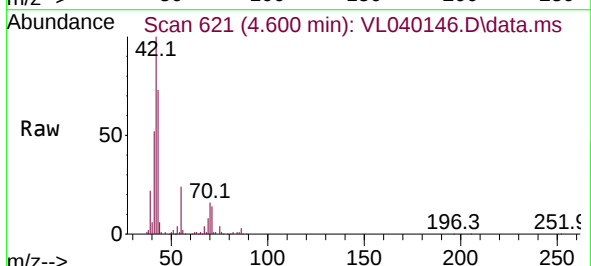
RT: 4.600 min Scan# 621

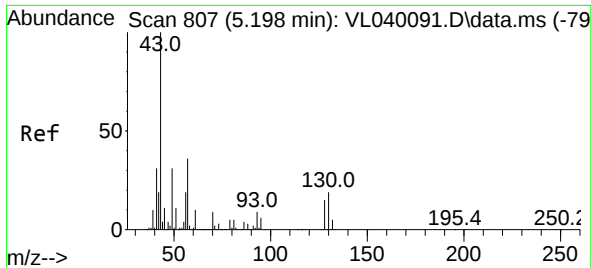
Delta R.T. -0.013 min

Lab File: VL040146.D

Acq: 6 Feb 2023 15:04

Tgt Ion:	43	Resp:	72081
Ion Ratio	Lower	Upper	
43	100		
86	3.8	5.6	8.4#
42	138.4	7.7	11.5#
44	2.8	5.8	8.8#

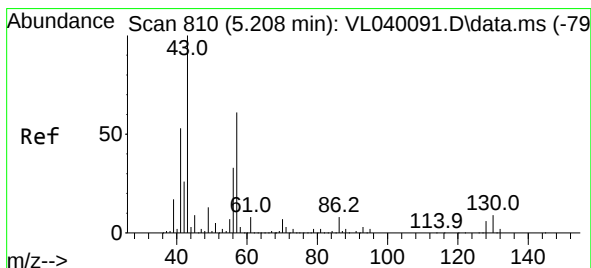
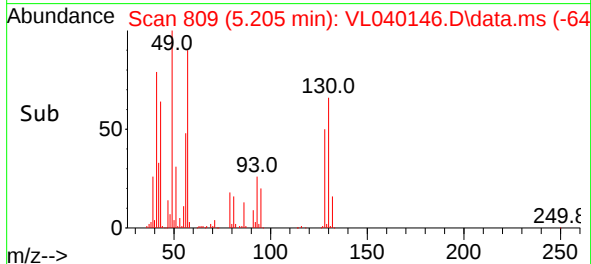
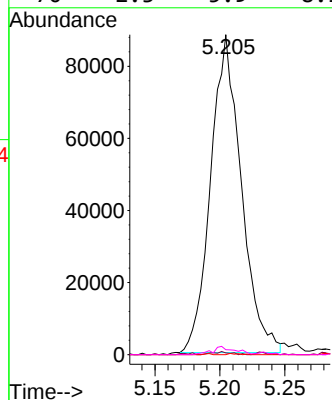
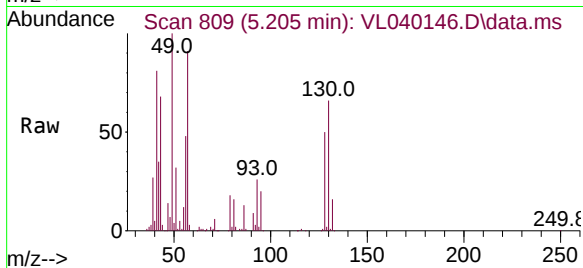




#25
Ethyl Acetate
Concen: 0.695 ppbv
RT: 5.205 min Scan# 808
Delta R.T. 0.016 min
Lab File: VL040146.D
Acq: 6 Feb 2023 15:04

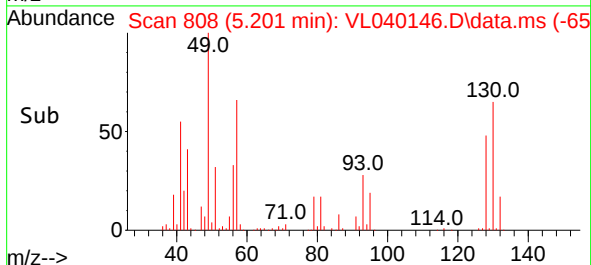
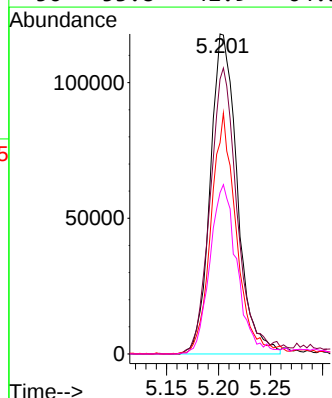
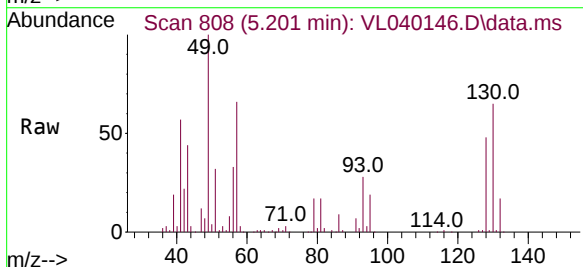
Instrument :
MSVOA_L
ClientSampleId :

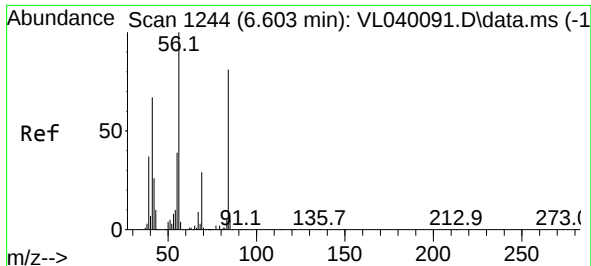
Tgt Ion: 43 Resp: 144589
Ion Ratio Lower Upper
43 100
45 0.7 8.5 12.7#
61 0.1 8.4 12.6#
70 2.3 5.9 8.9#



#26
Hexane
Concen: 2.343 ppbv
RT: 5.201 min Scan# 808
Delta R.T. 0.003 min
Lab File: VL040146.D
Acq: 6 Feb 2023 15:04

Tgt Ion: 57 Resp: 213289
Ion Ratio Lower Upper
57 100
41 90.8 72.2 108.4
43 71.9 192.1 288.1#
56 53.8 42.9 64.3

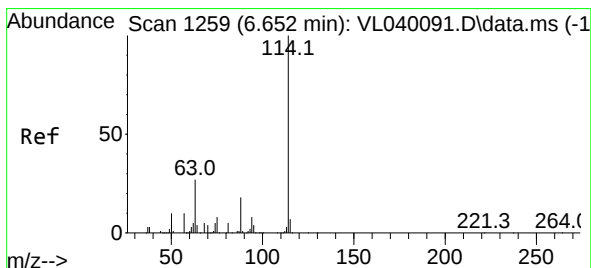
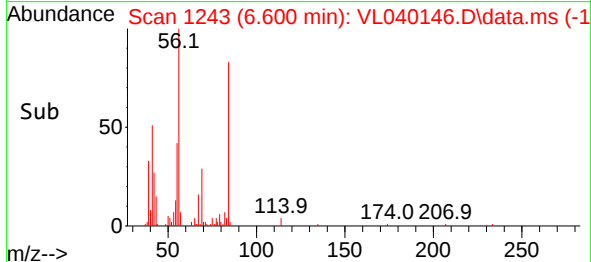
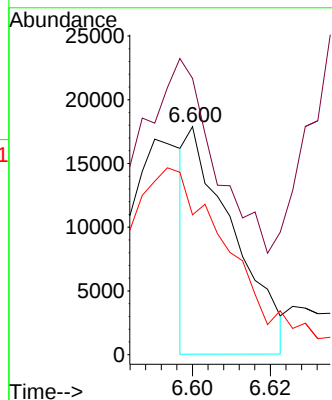
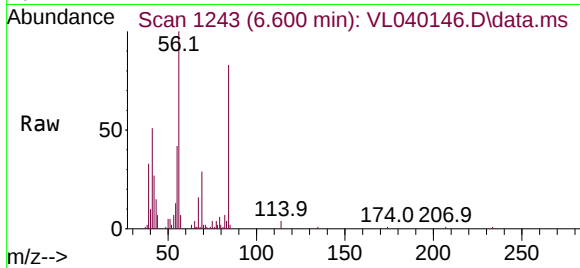




#30
Cyclohexane
Concen: 0.202 ppbv
RT: 6.600 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL040146.D
Acq: 6 Feb 2023 15:04

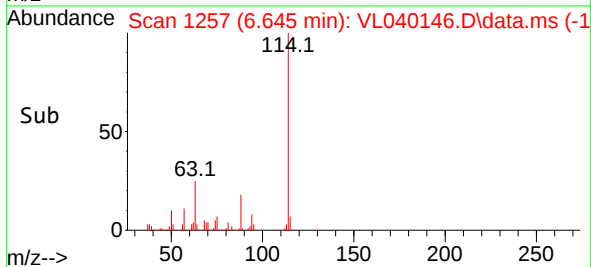
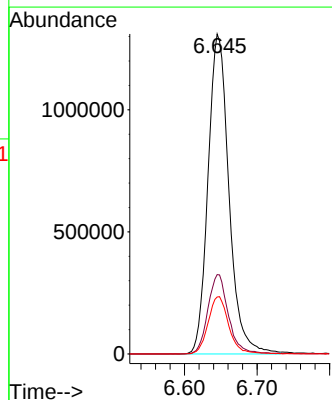
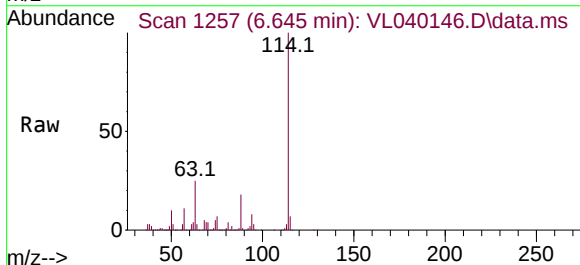
Instrument :
MSVOA_L
ClientSampleId :

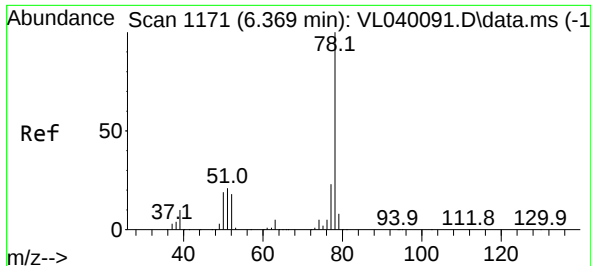
Tgt Ion: 84 Resp: 14648
Ion Ratio Lower Upper
84 100
56 294.9 111.5 167.3#
41 218.3 71.4 107.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.645 min Scan# 1257
Delta R.T. 0.003 min
Lab File: VL040146.D
Acq: 6 Feb 2023 15:04

Tgt Ion: 114 Resp: 2630613
Ion Ratio Lower Upper
114 100
63 24.5 21.8 32.8
88 17.8 14.8 22.2

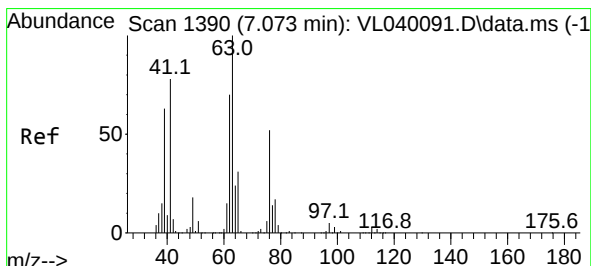
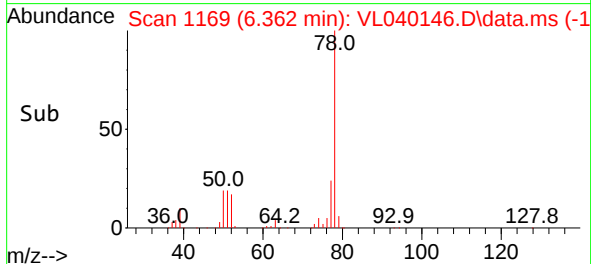
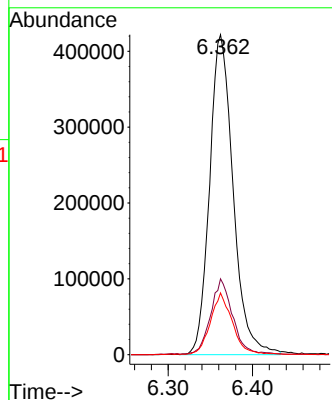
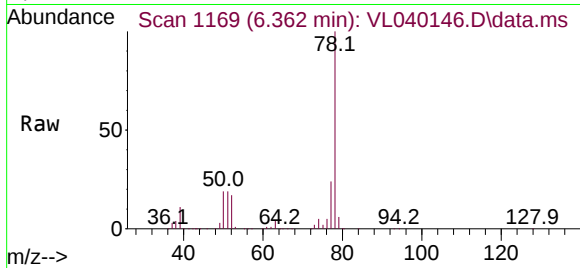




#36
Benzene
Concen: 4.210 ppbv
RT: 6.362 min Scan# 1171
Delta R.T. 0.003 min
Lab File: VL040146.D
Acq: 6 Feb 2023 15:04

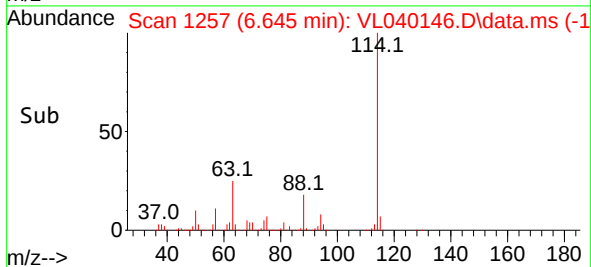
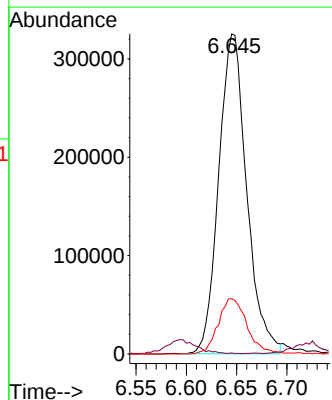
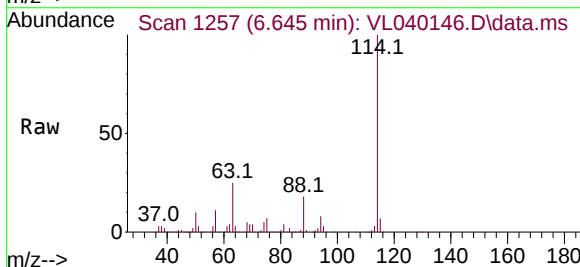
Instrument :
MSVOA_L
ClientSampleId :

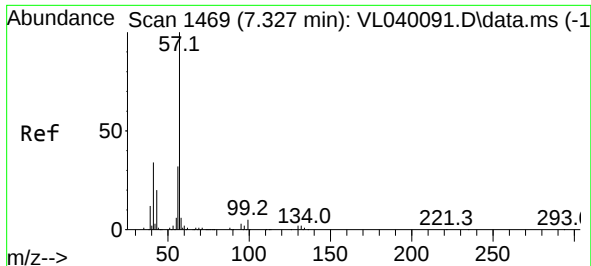
Tgt Ion: 78 Resp: 819599
Ion Ratio Lower Upper
78 100
77 23.6 18.1 27.1
50 19.2 15.6 23.4



#39
1,2-Dichloropropane
Concen: 8.260 ppbv
RT: 6.645 min Scan# 1257
Delta R.T. -0.418 min
Lab File: VL040146.D
Acq: 6 Feb 2023 15:04

Tgt Ion: 63 Resp: 628948
Ion Ratio Lower Upper
63 100
41 0.0 62.2 93.4#
62 17.2 55.8 83.8#





#44

2,2,4-Trimethylpentane

Concen: 0.417 ppbv

RT: 7.320 min Scan# 1467

Delta R.T. 0.006 min

Lab File: VL040146.D

Acq: 6 Feb 2023 15:04

Instrument :

MSVOA_L

ClientSampleId :

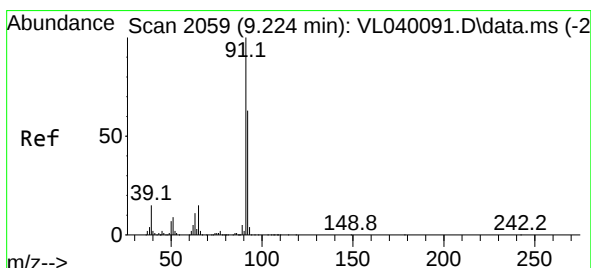
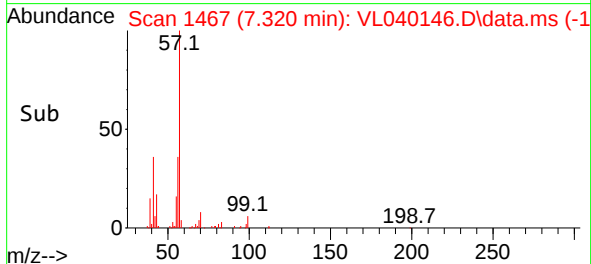
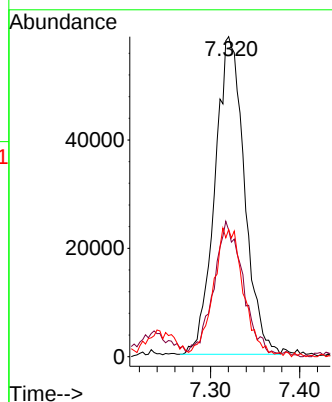
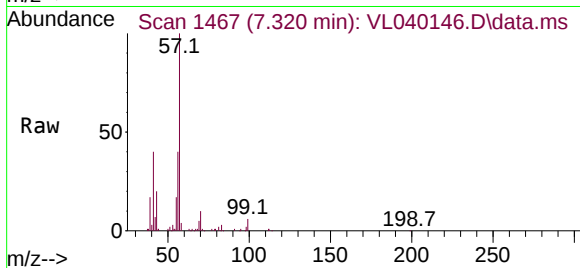
Tgt Ion: 57 Resp: 134906

Ion Ratio Lower Upper

57 100

41 43.9 27.1 40.7#

56 42.2 25.0 37.4#



#53

Toluene

Concen: 4.014 ppbv

RT: 9.214 min Scan# 2056

Delta R.T. 0.003 min

Lab File: VL040146.D

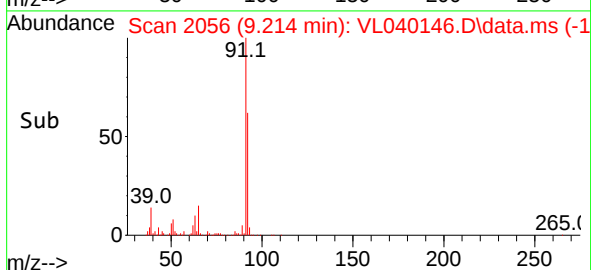
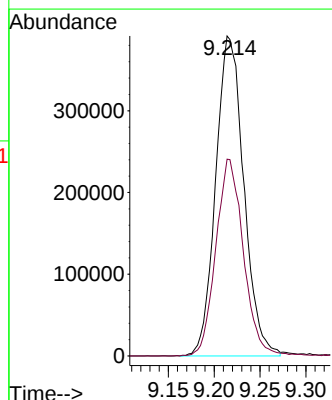
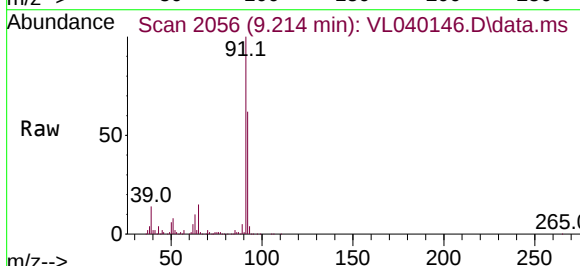
Acq: 6 Feb 2023 15:04

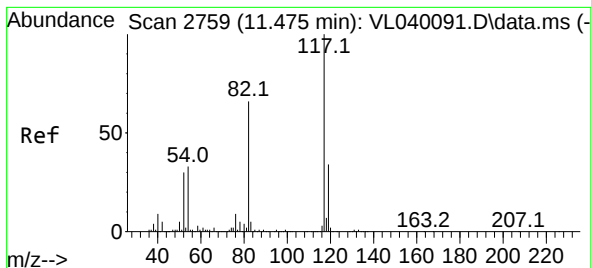
Tgt Ion: 91 Resp: 833479

Ion Ratio Lower Upper

91 100

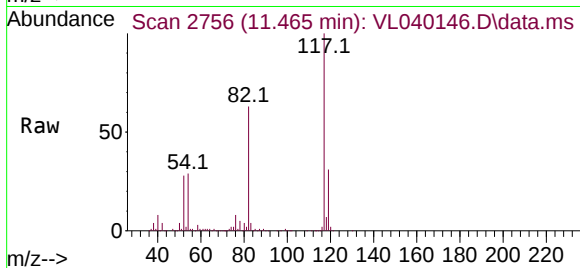
92 60.9 48.3 72.5



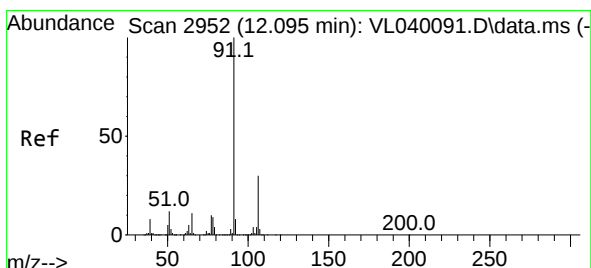
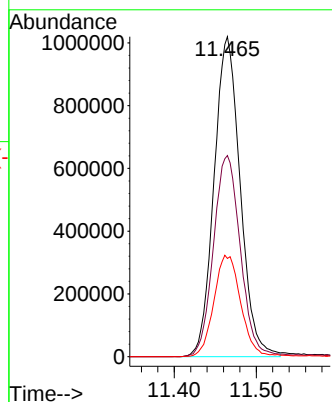
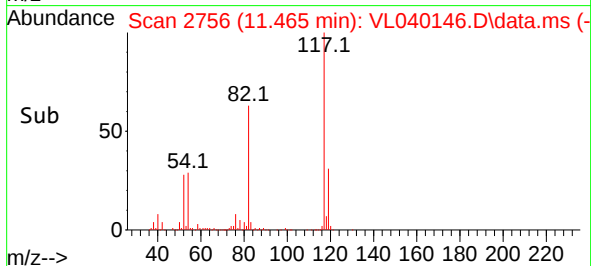


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.465 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL040146.D
Acq: 6 Feb 2023 15:04

Instrument :
MSVOA_L
ClientSampleId :

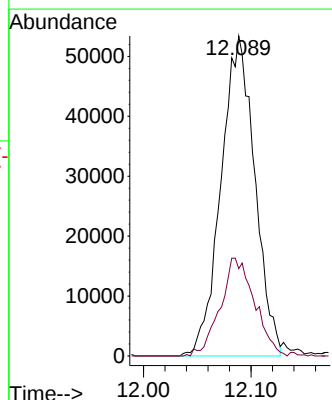
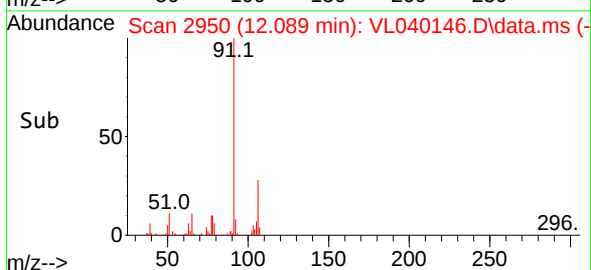
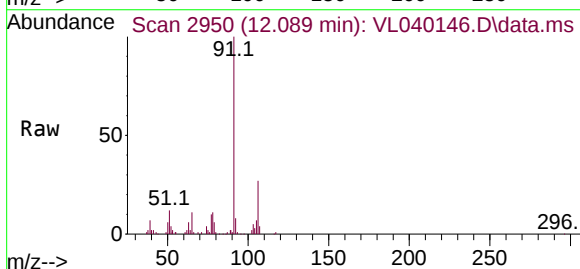


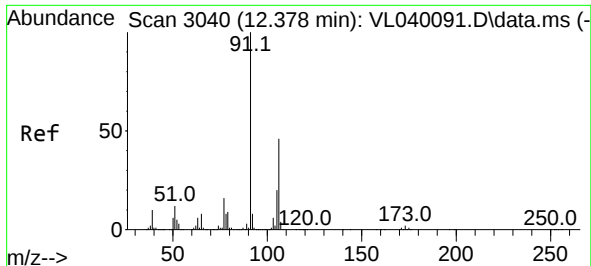
Tgt Ion:117 Resp: 2257146
Ion Ratio Lower Upper
117 100
82 66.0 54.4 81.6
119 33.1 26.8 40.2



#58
Ethyl Benzene
Concen: 0.463 ppbv
RT: 12.089 min Scan# 2950
Delta R.T. 0.006 min
Lab File: VL040146.D
Acq: 6 Feb 2023 15:04

Tgt Ion: 91 Resp: 116675
Ion Ratio Lower Upper
91 100
106 27.3 23.7 35.5





#59

m/p-Xylene

Concen: 1.096 ppbv

RT: 12.343 min Scan# 3040

Delta R.T. -0.023 min

Lab File: VL040146.D

Acq: 6 Feb 2023 15:04

Instrument :

MSVOA_L

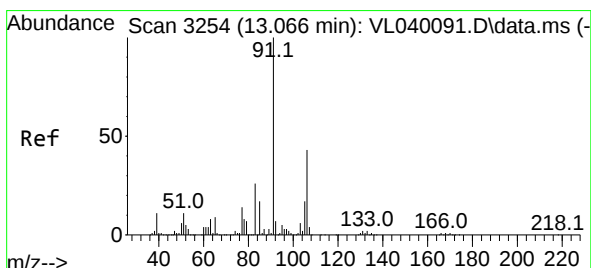
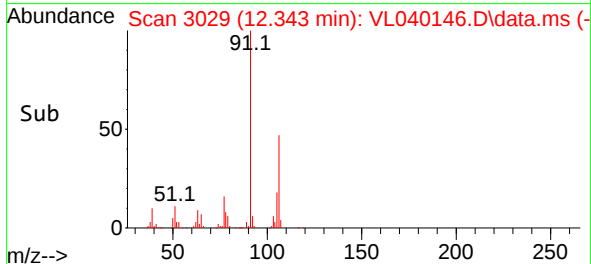
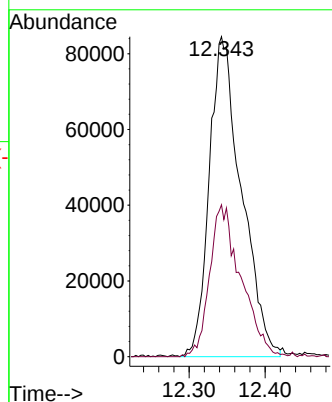
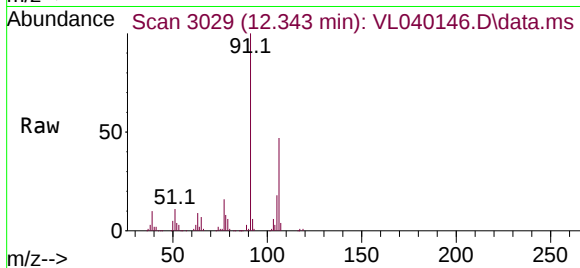
ClientSampleId :

Tgt Ion: 91 Resp: 248159

Ion Ratio Lower Upper

91 100

106 46.4 34.2 51.4



#60

o-Xylene

Concen: 0.502 ppbv

RT: 13.056 min Scan# 3251

Delta R.T. 0.006 min

Lab File: VL040146.D

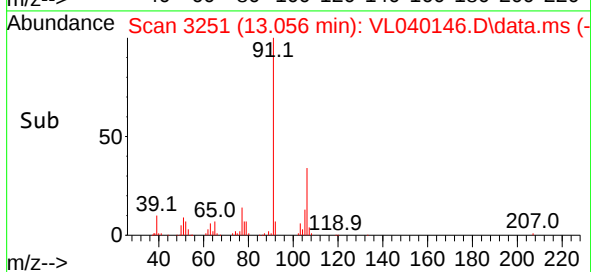
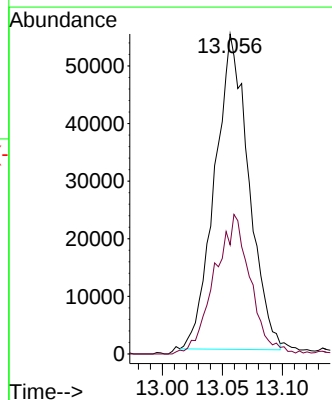
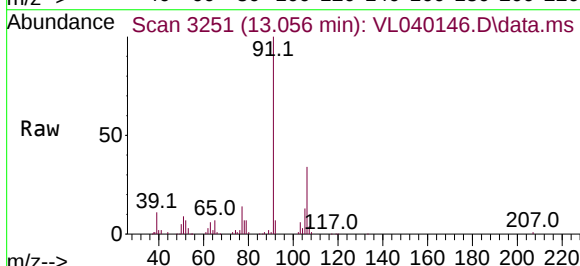
Acq: 6 Feb 2023 15:04

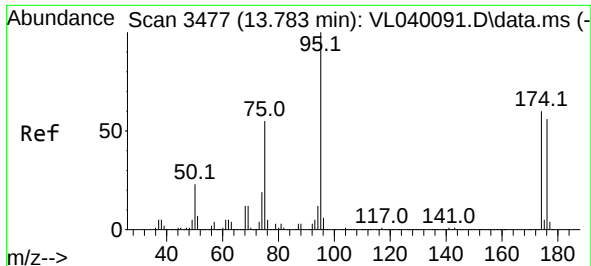
Tgt Ion: 91 Resp: 107833

Ion Ratio Lower Upper

91 100

106 46.5 21.6 64.8

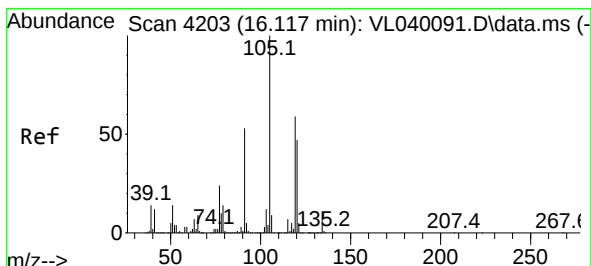
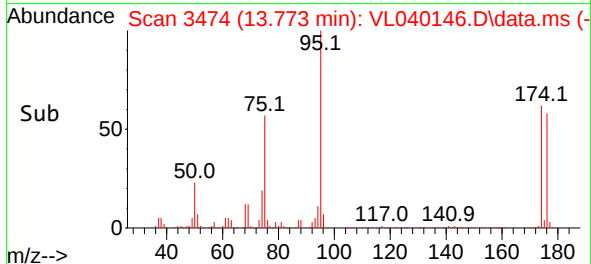
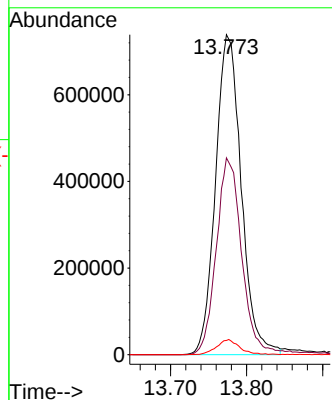
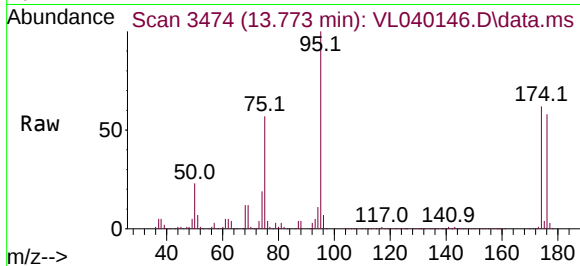




#68
1-Bromo-4-Fluorobenzene
Concen: 9.265 ppbv
RT: 13.773 min Scan# 3477
Delta R.T. 0.003 min
Lab File: VL040146.D
Acq: 6 Feb 2023 15:04

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 95 Resp: 1738068
Ion Ratio Lower Upper
95 100
174 62.2 47.7 71.5
175 4.3 3.4 5.2



#74
1,2,4-Trimethylbenzene
Concen: 0.130 ppbv
RT: 16.111 min Scan# 4201
Delta R.T. 0.010 min
Lab File: VL040146.D
Acq: 6 Feb 2023 15:04

Tgt Ion: 105 Resp: 30957
Ion Ratio Lower Upper
105 100
120 34.9 38.0 57.0#
91 12.5 42.1 63.1#
77 16.9 19.3 28.9#

