

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020623\
 Data File : VL040154.D
 Acq On : 6 Feb 2023 20:22
 Operator : SY/MD
 Sample : 01438-07
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Feb 07 05:59:04 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)

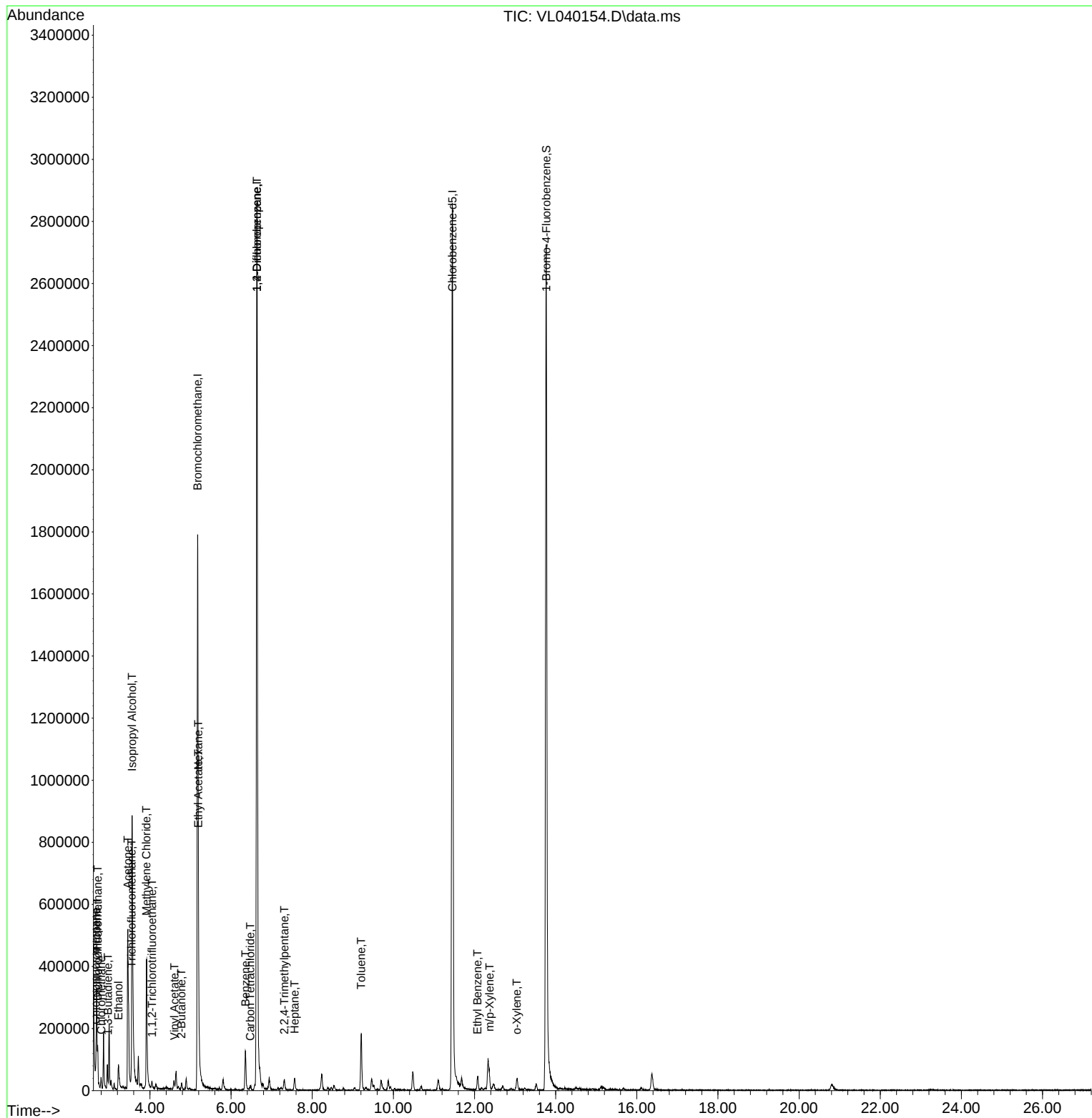
Internal Standards						
1) Bromochloromethane	5.176	49	860008	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.635	114	2216870	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.455	117	1870788	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	1437093	9.243	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.713	85	68937	0.457	ppbv	92
3) Chlorodifluoromethane	2.658	51	34132	0.331	ppbv #	91
4) Chloromethane	2.800	50	24728	0.388	ppbv	89
9) Propene	2.684	41	92869	2.167	ppbv #	83
10) Heptane	7.565	43	6386	0.065	ppbv #	1
11) Trichlorofluoromethane	3.545	101	31180	0.207	ppbv	89
12) 1,1,2-Trichlorotrifluo...	4.050	101	6485	0.057	ppbv	85
13) Ethanol	3.224	45	86867	22.021	ppbv	93
15) Acetone	3.452	43	561243	5.442	ppbv	98
16) 1,3-Butadiene	2.963	39	4209	0.088	ppbv #	64
19) Isopropyl Alcohol	3.562	45	1043784	20.683	ppbv #	96
20) Methylene Chloride	3.915	84	148692	3.268	ppbv	95
23) Vinyl Acetate	4.607	43	2104	0.063	ppbv #	1
25) Ethyl Acetate	5.195	43	29367	0.162	ppbv #	83
26) Hexane	5.192	57	36301	0.456	ppbv #	1
34) 2-Butanone	4.777	43	22227	0.212	ppbv	100
35) Carbon Tetrachloride	6.475	117	4382	0.035	ppbv	87
36) Benzene	6.352	78	105317	0.642	ppbv	98
39) 1,2-Dichloropropane	6.635	63	541316	8.436	ppbv #	22
44) 2,2,4-Trimethylpentane	7.314	57	17851	0.065	ppbv #	49
53) Toluene	9.208	91	141020	0.806	ppbv	99
58) Ethyl Benzene	12.069	91	16864	0.081	ppbv	95
59) m/p-Xylene	12.371	91	11358	0.061	ppbv #	33
60) o-Xylene	13.043	91	14898	0.084	ppbv #	26

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

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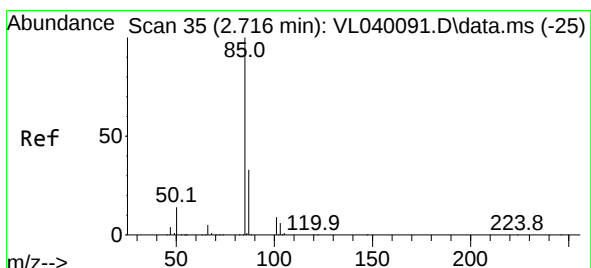
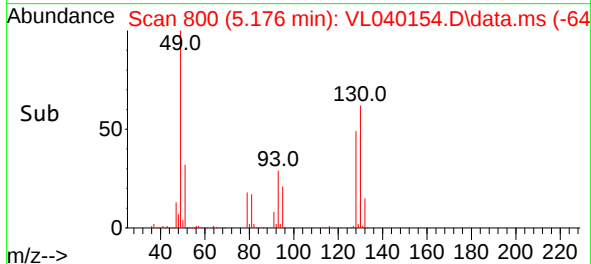
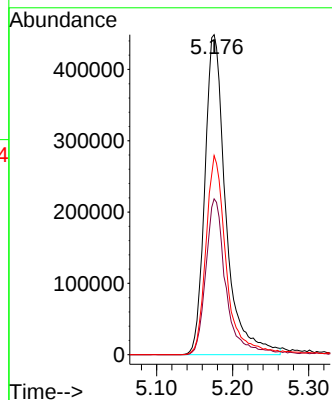
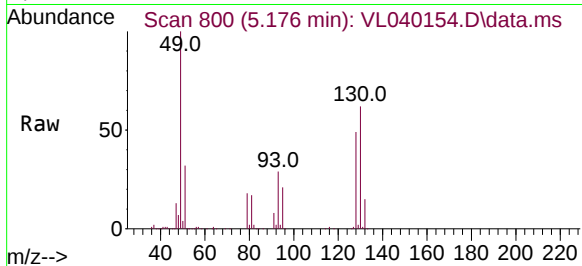




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.176 min Scan# 80
 Delta R.T. -0.003 min
 Lab File: VL040154.D
 Acq: 6 Feb 2023 20:22

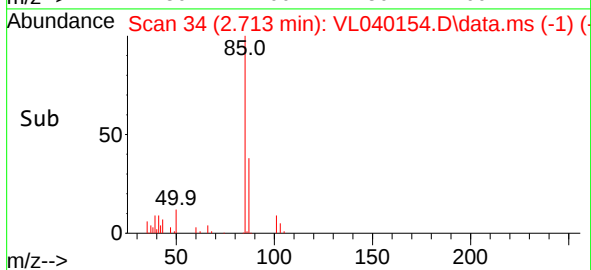
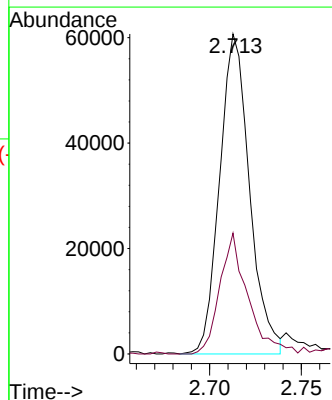
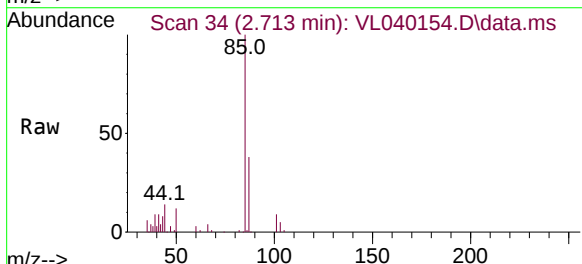
Instrument :
 MSVOA_L
 ClientSampleId :

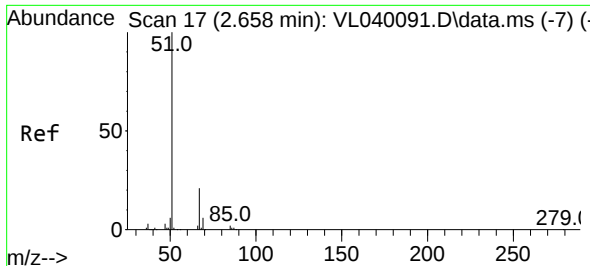
Tgt Ion: 49 Resp: 860008
 Ion Ratio Lower Upper
 49 100
 128 47.6 23.6 71.0
 130 61.4 29.8 89.3



#2
 Dichlorodifluoromethane
 Concen: 0.457 ppbv
 RT: 2.713 min Scan# 34
 Delta R.T. -0.000 min
 Lab File: VL040154.D
 Acq: 6 Feb 2023 20:22

Tgt Ion: 85 Resp: 68937
 Ion Ratio Lower Upper
 85 100
 87 37.8 26.5 39.7

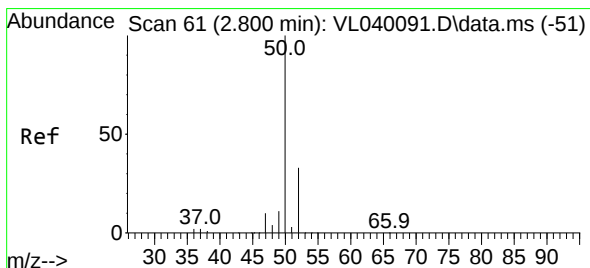
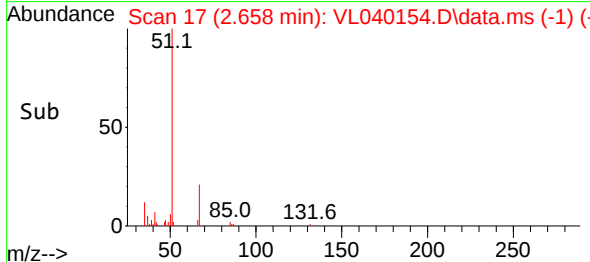
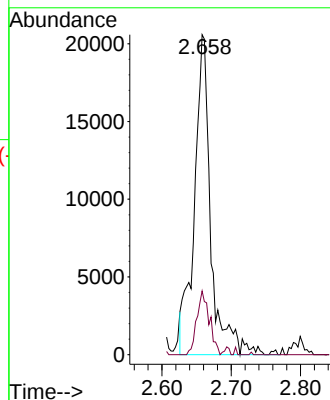
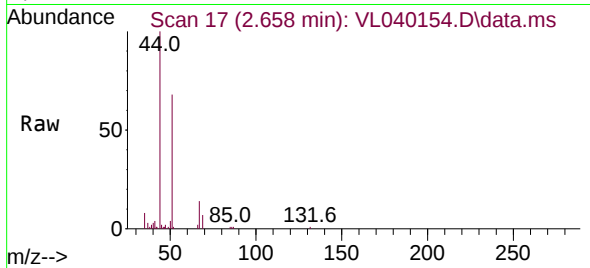




#3
Chlorodifluoromethane
Concen: 0.331 ppbv
RT: 2.658 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL040154.D
Acq: 6 Feb 2023 20:22

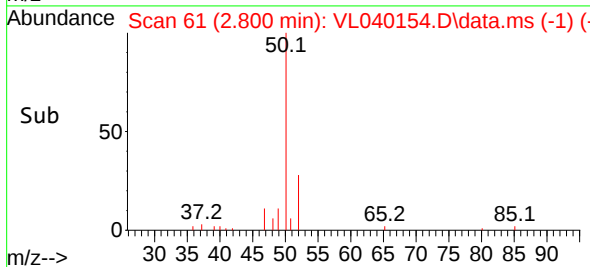
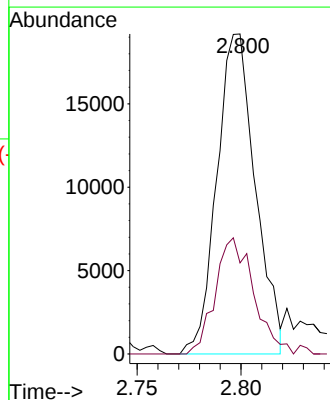
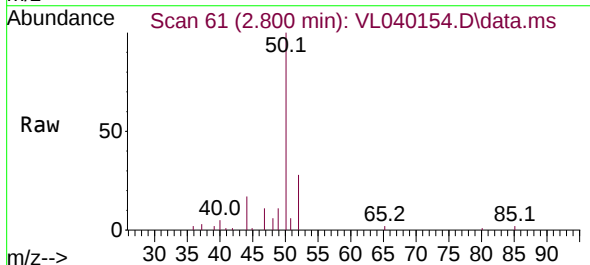
Instrument :
MSVOA_L
ClientSampleId :

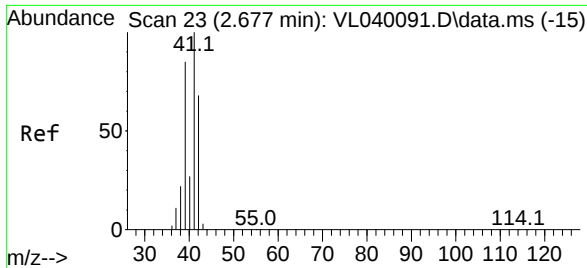
Tgt Ion: 51 Resp: 34132
Ion Ratio Lower Upper
51 100
67 16.2 16.4 24.6#



#4
Chloromethane
Concen: 0.388 ppbv
RT: 2.800 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL040154.D
Acq: 6 Feb 2023 20:22

Tgt Ion: 50 Resp: 24728
Ion Ratio Lower Upper
50 100
52 26.8 26.5 39.7

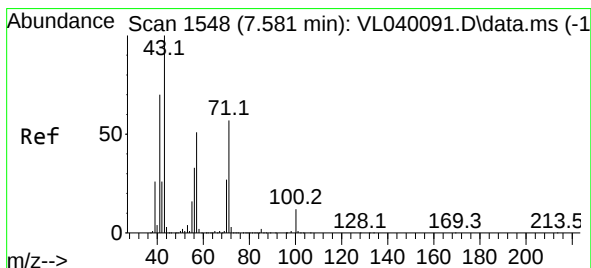
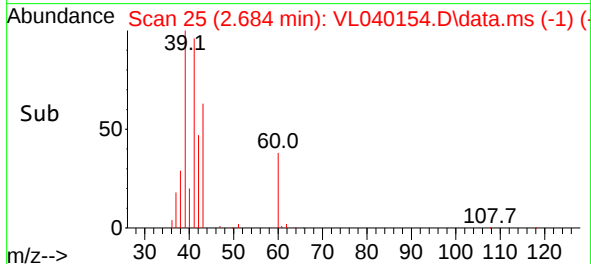
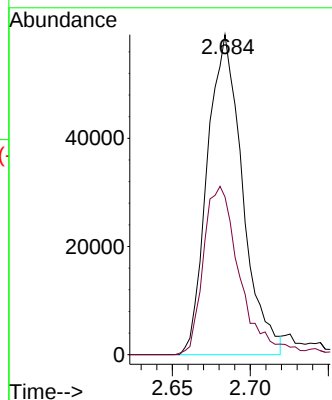
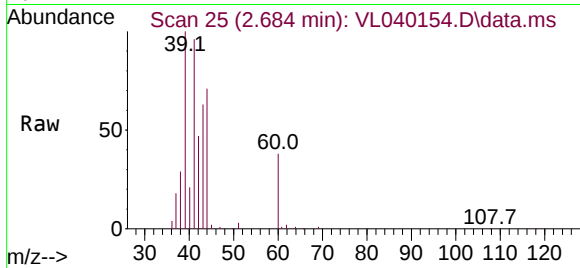




#9
Propene
Concen: 2.167 ppbv
RT: 2.684 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL040154.D
Acq: 6 Feb 2023 20:22

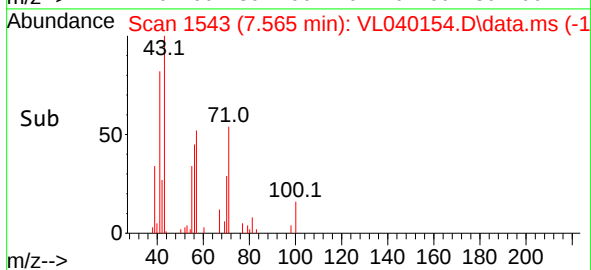
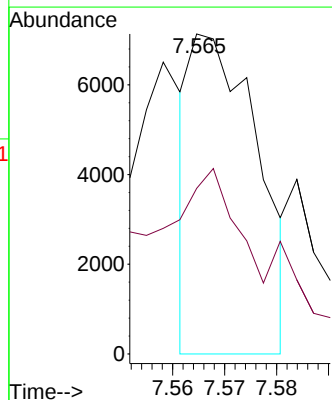
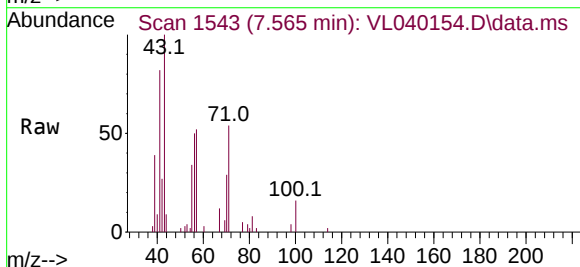
Instrument :
MSVOA_L
ClientSampleId :

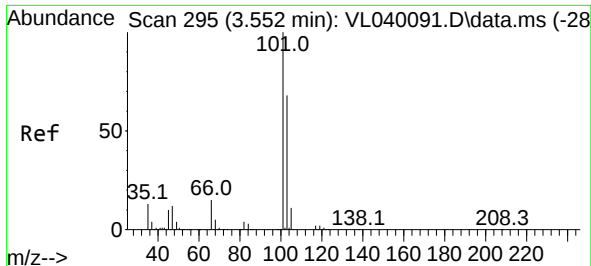
Tgt Ion: 41 Resp: 92869
Ion Ratio Lower Upper
41 100
42 55.4 55.6 83.4#



#10
Heptane
Concen: 0.065 ppbv
RT: 7.565 min Scan# 1543
Delta R.T. -0.003 min
Lab File: VL040154.D
Acq: 6 Feb 2023 20:22

Tgt Ion: 43 Resp: 6386
Ion Ratio Lower Upper
43 100
57 123.1 40.9 61.3#

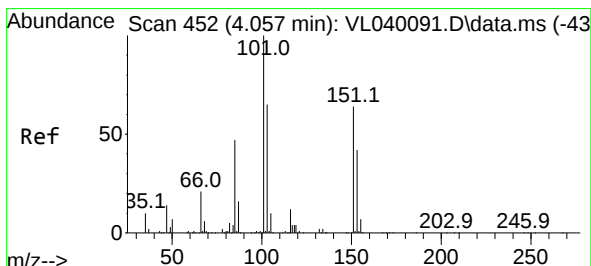
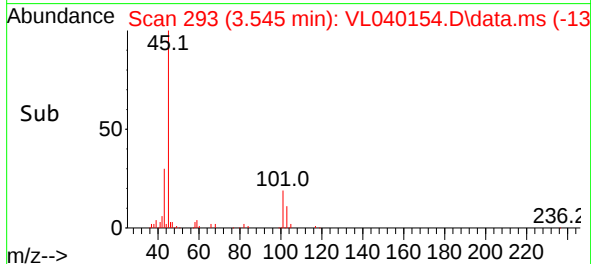
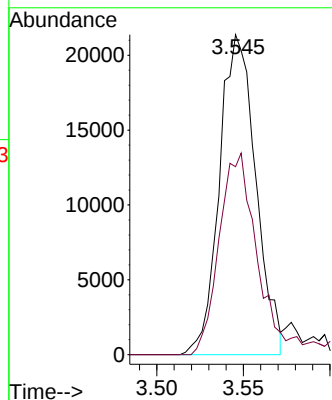
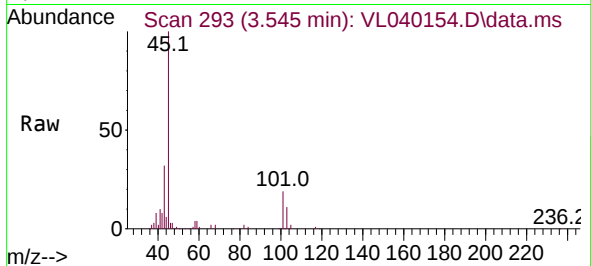




#11
 Trichlorofluoromethane
 Concen: 0.207 ppbv
 RT: 3.545 min Scan# 295
 Delta R.T. -0.000 min
 Lab File: VL040154.D
 Acq: 6 Feb 2023 20:22

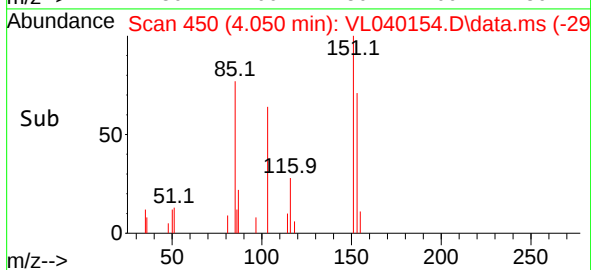
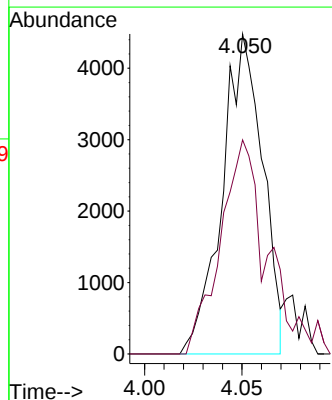
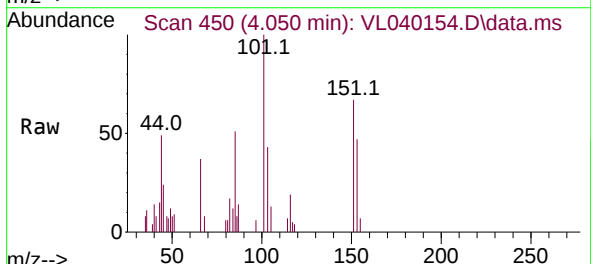
Instrument :
 MSVOA_L
 ClientSampleId :

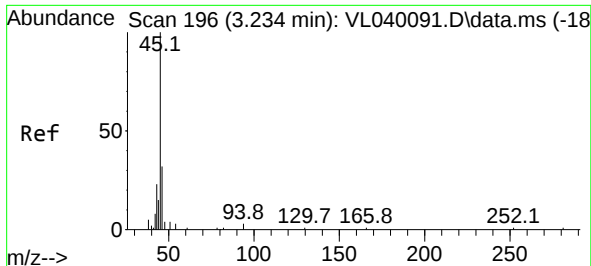
Tgt Ion:101 Resp: 31180
 Ion Ratio Lower Upper
 101 100
 103 58.7 54.0 81.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.057 ppbv
 RT: 4.050 min Scan# 450
 Delta R.T. 0.003 min
 Lab File: VL040154.D
 Acq: 6 Feb 2023 20:22

Tgt Ion:101 Resp: 6485
 Ion Ratio Lower Upper
 101 100
 151 78.3 53.2 79.8





#13

Ethanol

Concen: 22.021 ppbv

RT: 3.224 min Scan# 196

Delta R.T. -0.003 min

Lab File: VL040154.D

Acq: 6 Feb 2023 20:22

Instrument :

MSVOA_L

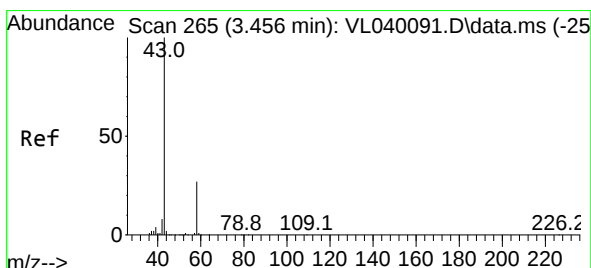
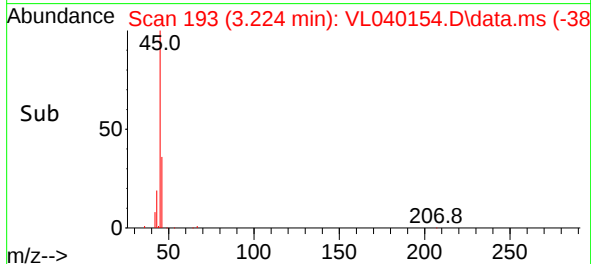
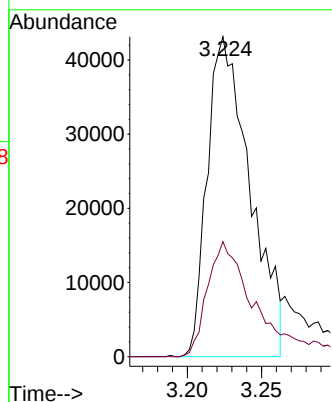
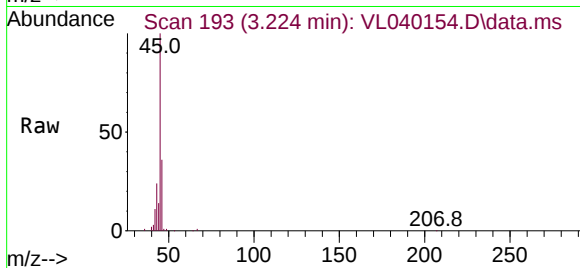
ClientSampleId :

Tgt Ion: 45 Resp: 86867

Ion Ratio Lower Upper

45 100

46 41.1 14.8 59.2



#15

Acetone

Concen: 5.442 ppbv

RT: 3.452 min Scan# 264

Delta R.T. 0.003 min

Lab File: VL040154.D

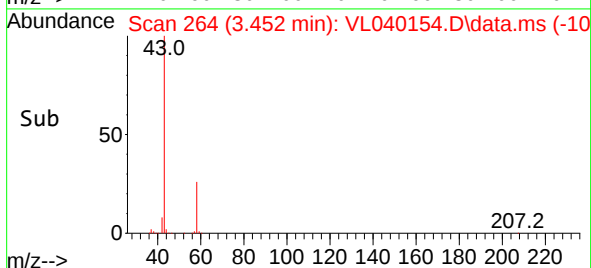
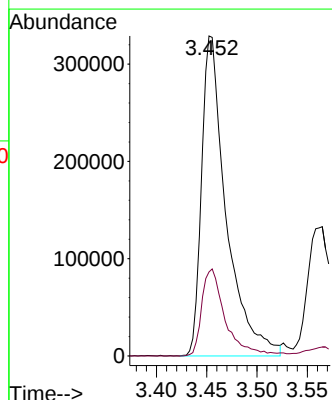
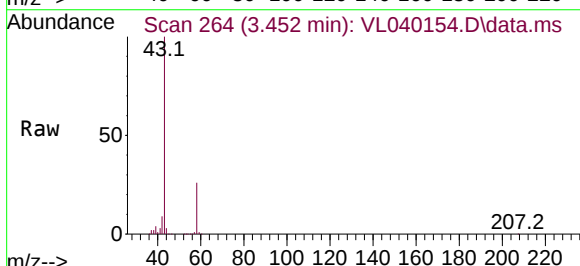
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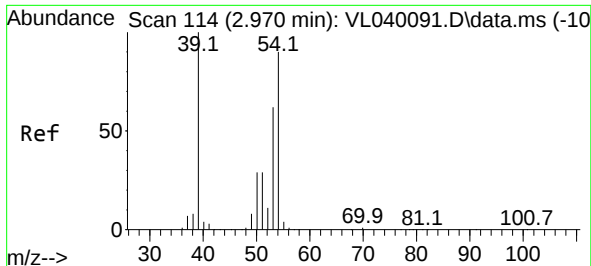
Tgt Ion: 43 Resp: 561243

Ion Ratio Lower Upper

43 100

58 26.3 21.8 32.8

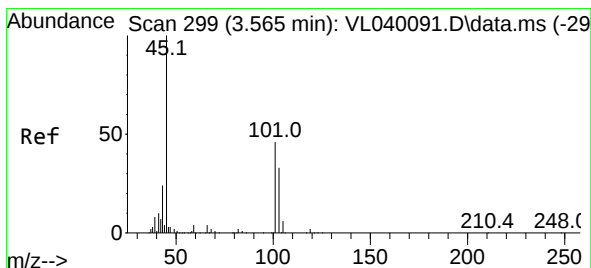
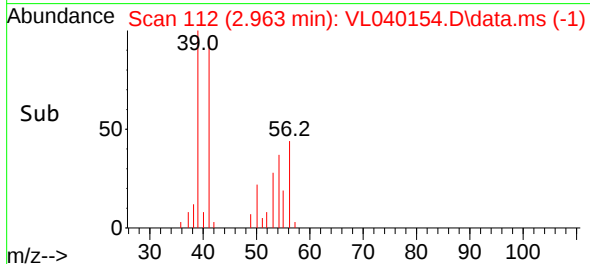
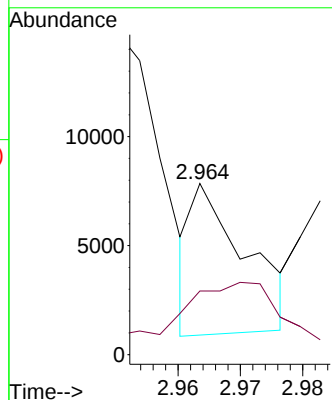
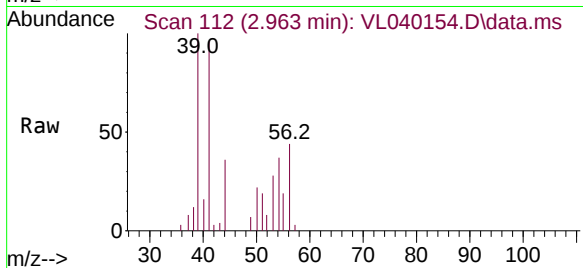




#16
1,3-Butadiene
Concen: 0.088 ppbv
RT: 2.963 min Scan# 114
Delta R.T. -0.003 min
Lab File: VL040154.D
Acq: 6 Feb 2023 20:22

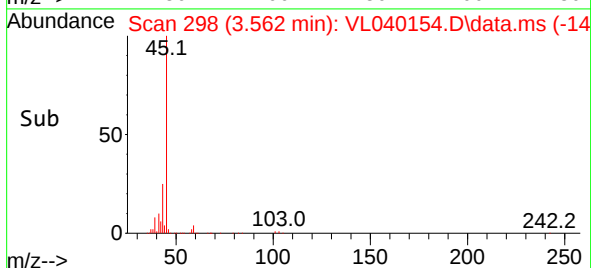
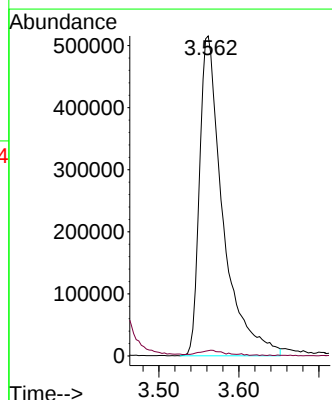
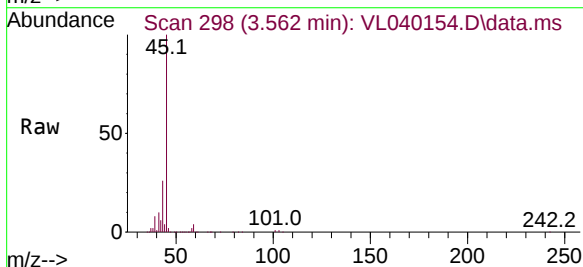
Instrument :
MSVOA_L
ClientSampleId :

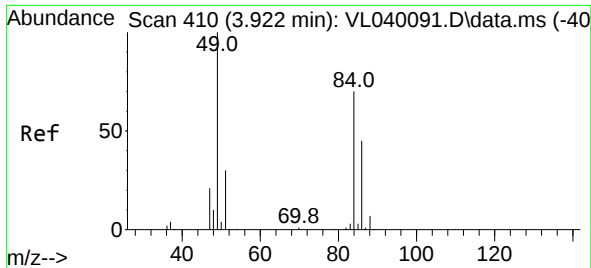
Tgt Ion: 39 Resp: 4209
Ion Ratio Lower Upper
39 100
54 117.4 67.9 101.9#



#19
Isopropyl Alcohol
Concen: 20.683 ppbv
RT: 3.562 min Scan# 298
Delta R.T. 0.003 min
Lab File: VL040154.D
Acq: 6 Feb 2023 20:22

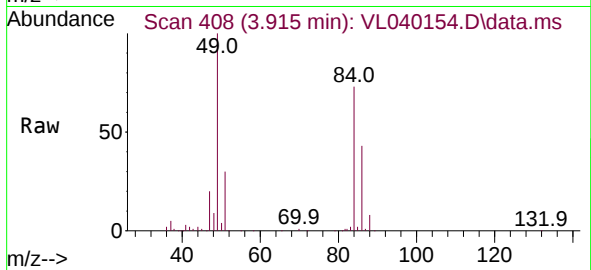
Tgt Ion: 45 Resp: 1043784
Ion Ratio Lower Upper
45 100
58 2.1 2.6 4.0#





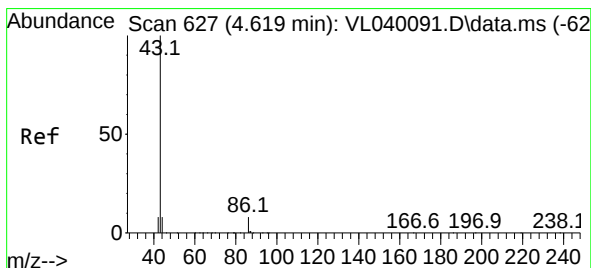
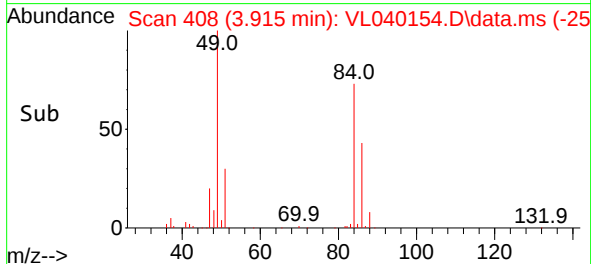
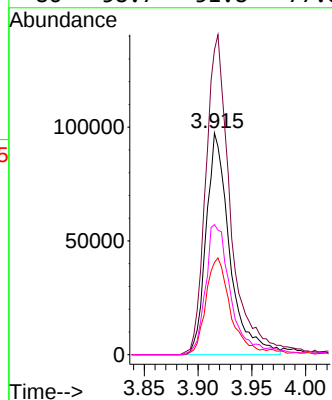
#20
Methylene Chloride
Concen: 3.268 ppbv
RT: 3.915 min Scan# 408
Delta R.T. 0.000 min
Lab File: VL040154.D
Acq: 6 Feb 2023 20:22

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 84 Resp: 148692

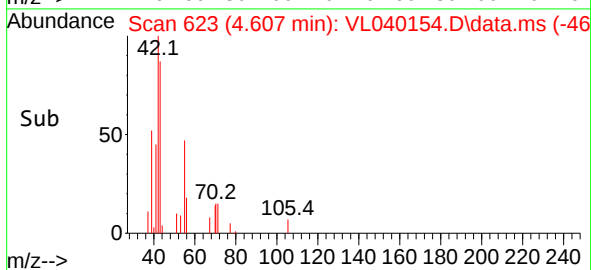
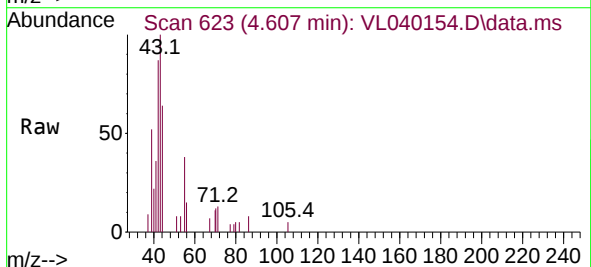
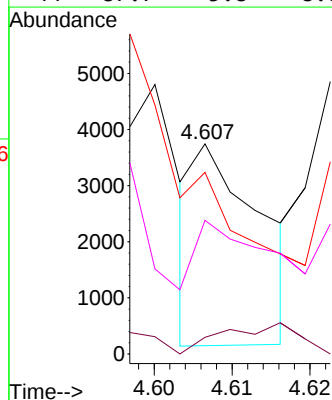
Ion	Ratio	Lower	Upper
84	100		
49	137.4	114.6	171.8
51	41.6	34.3	51.5
86	58.7	51.8	77.8

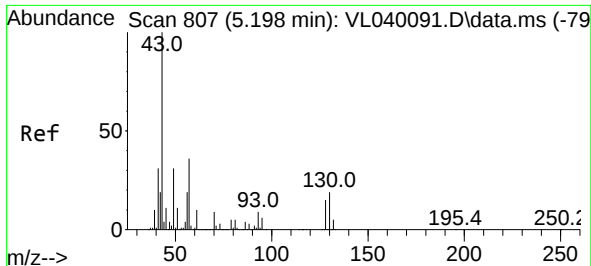


#23
Vinyl Acetate
Concen: 0.063 ppbv
RT: 4.607 min Scan# 623
Delta R.T. -0.006 min
Lab File: VL040154.D
Acq: 6 Feb 2023 20:22

Tgt Ion: 43 Resp: 2104

Ion	Ratio	Lower	Upper
43	100		
86	21.1	5.6	8.4#
42	103.3	7.7	11.5#
44	87.7	5.8	8.8#





#25

Ethyl Acetate

Concen: 0.162 ppbv

RT: 5.195 min Scan# 80

Delta R.T. 0.006 min

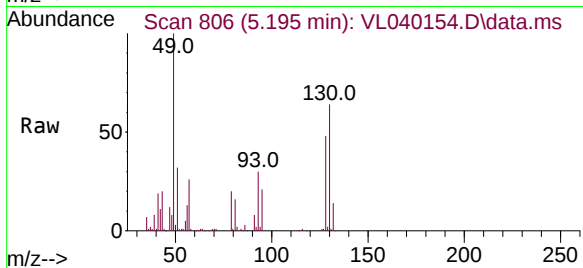
Lab File: VL040154.D

Acq: 6 Feb 2023 20:22

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion: 43 Resp: 29367

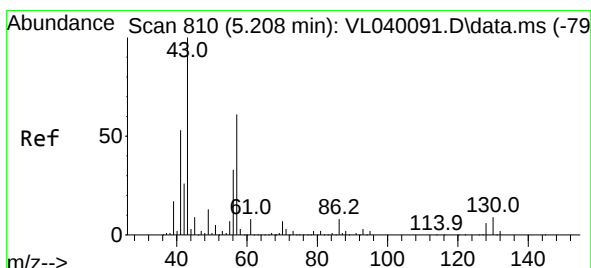
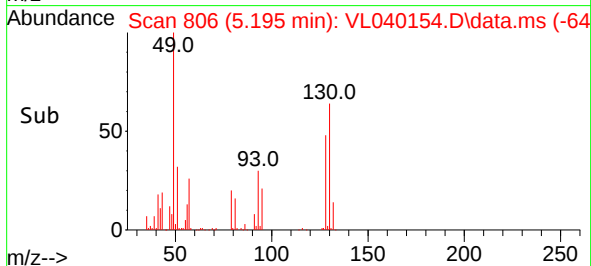
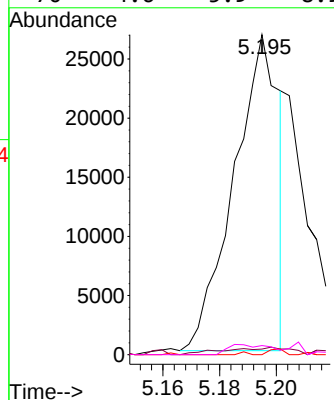
Ion Ratio Lower Upper

43 100

45 4.8 8.5 12.7#

61 0.9 8.4 12.6#

70 4.6 5.9 8.9#



#26

Hexane

Concen: 0.456 ppbv

RT: 5.192 min Scan# 805

Delta R.T. -0.006 min

Lab File: VL040154.D

Acq: 6 Feb 2023 20:22

Tgt Ion: 57 Resp: 36301

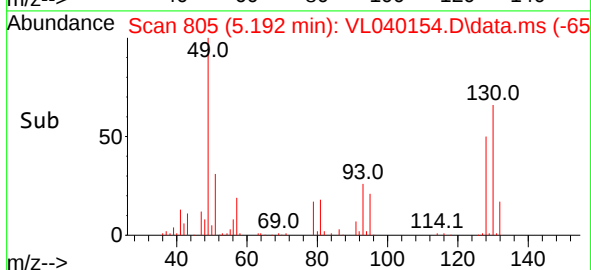
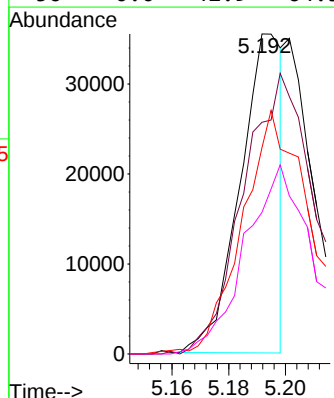
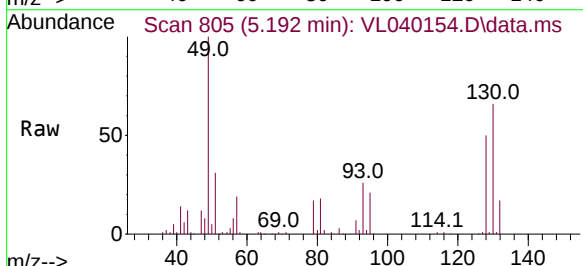
Ion Ratio Lower Upper

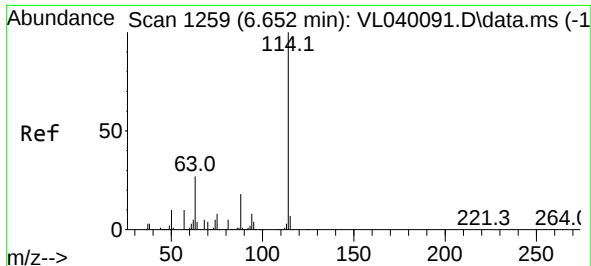
57 100

41 0.0 72.2 108.4#

43 0.0 192.1 288.1#

56 0.0 42.9 64.3#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.635 min Scan# 11

Delta R.T. -0.006 min

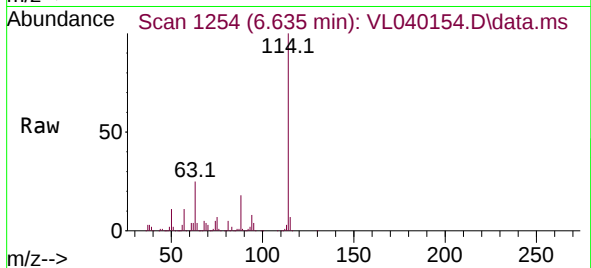
Lab File: VL040154.D

Acq: 6 Feb 2023 20:22

Instrument :

MSVOA_L

ClientSampleId :



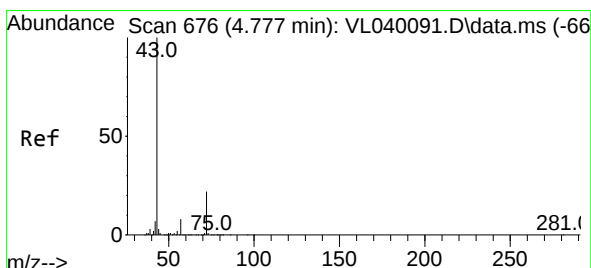
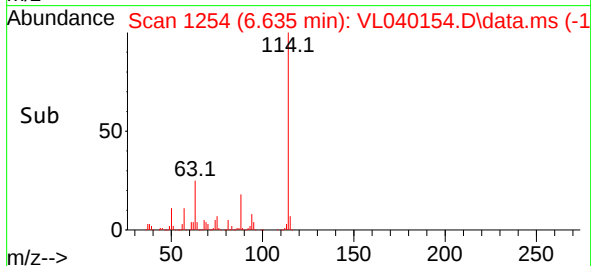
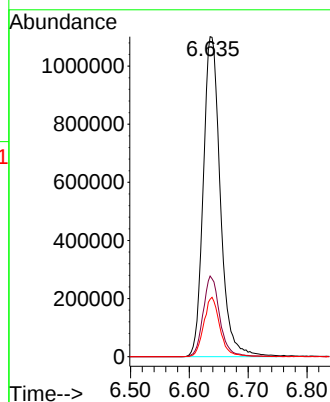
Tgt Ion:114 Resp: 2216870

Ion Ratio Lower Upper

114 100

63 24.8 21.8 32.8

88 17.8 14.8 22.2



#34

2-Butanone

Concen: 0.212 ppbv

RT: 4.777 min Scan# 676

Delta R.T. 0.006 min

Lab File: VL040154.D

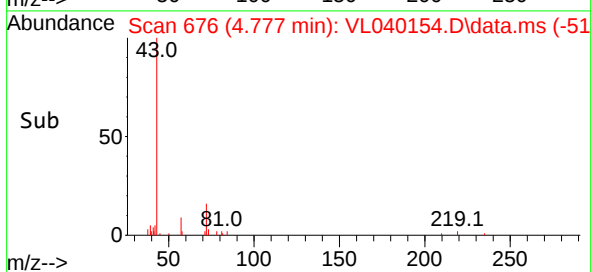
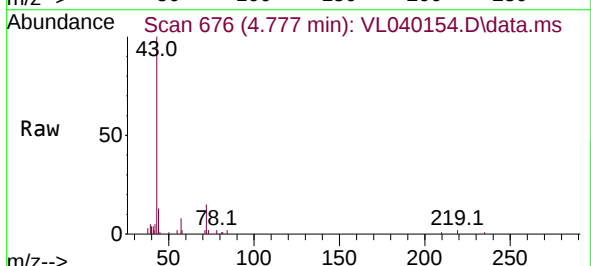
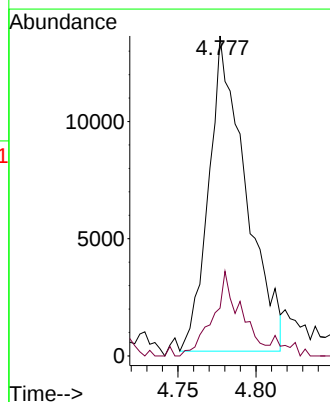
Acq: 6 Feb 2023 20:22

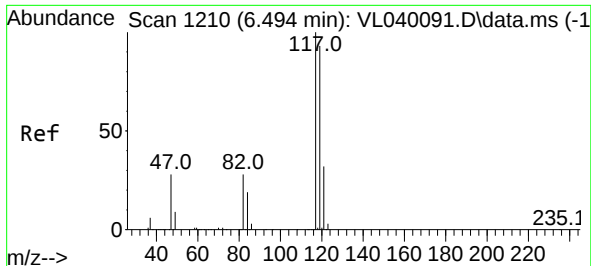
Tgt Ion: 43 Resp: 22227

Ion Ratio Lower Upper

43 100

72 23.1 18.4 27.6

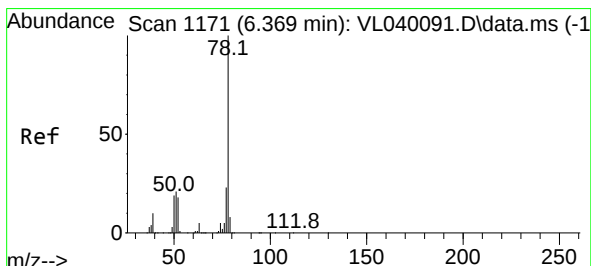
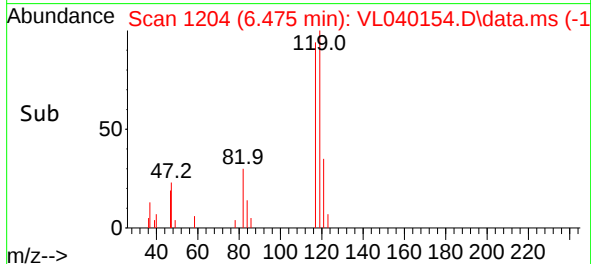
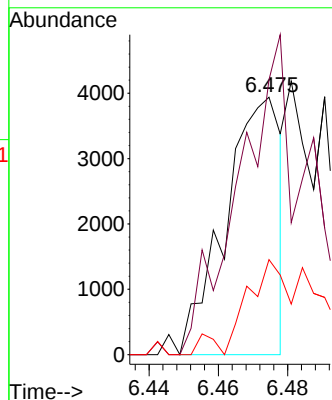
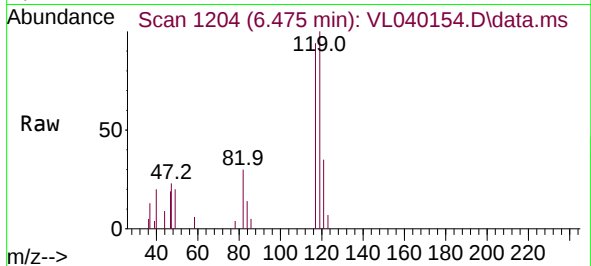




#35
Carbon Tetrachloride
Concen: 0.035 ppbv
RT: 6.475 min Scan# 1165
Delta R.T. -0.006 min
Lab File: VL040154.D
Acq: 6 Feb 2023 20:22

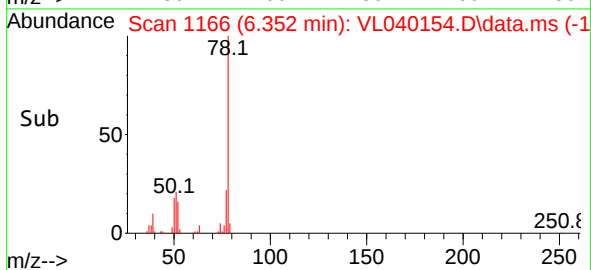
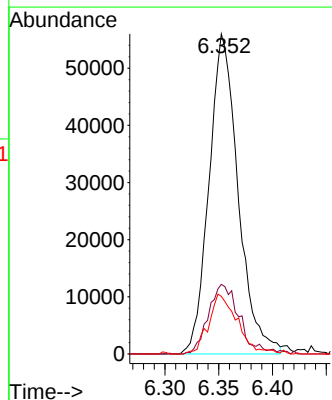
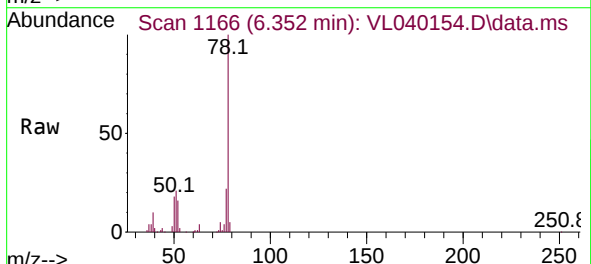
Instrument :
MSVOA_L
ClientSampleId :

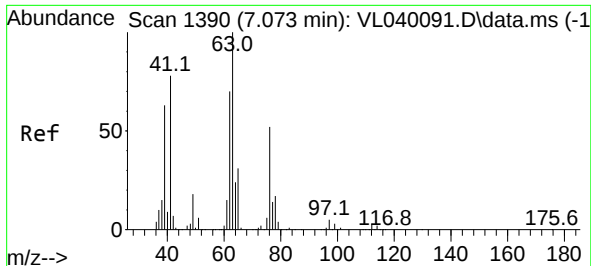
Tgt Ion:117 Resp: 4382
Ion Ratio Lower Upper
117 100
119 106.8 74.5 111.7
121 36.9 25.4 38.0



#36
Benzene
Concen: 0.642 ppbv
RT: 6.352 min Scan# 1166
Delta R.T. -0.006 min
Lab File: VL040154.D
Acq: 6 Feb 2023 20:22

Tgt Ion: 78 Resp: 105317
Ion Ratio Lower Upper
78 100
77 21.7 18.1 27.1
50 18.0 15.6 23.4





#39

1,2-Dichloropropane

Concen: 8.436 ppbv

RT: 6.635 min Scan# 1

Delta R.T. -0.428 min

Lab File: VL040154.D

Acq: 6 Feb 2023 20:22

Instrument :

MSVOA_L

ClientSampleId :

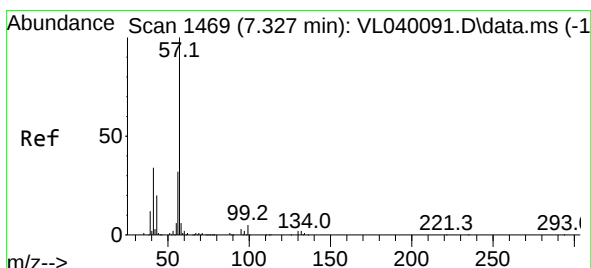
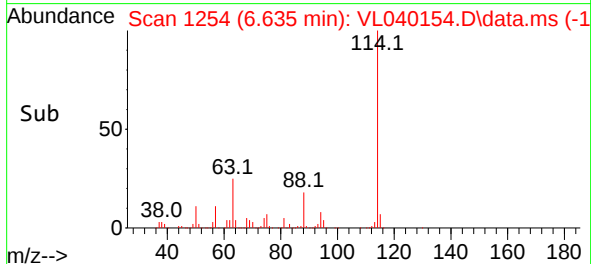
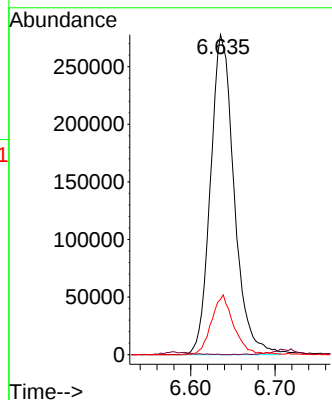
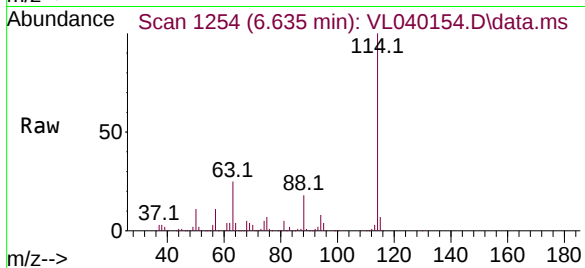
Tgt Ion: 63 Resp: 541316

Ion Ratio Lower Upper

63 100

41 0.0 62.2 93.4#

62 17.3 55.8 83.8#



#44

2,2,4-Trimethylpentane

Concen: 0.065 ppbv

RT: 7.314 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VL040154.D

Acq: 6 Feb 2023 20:22

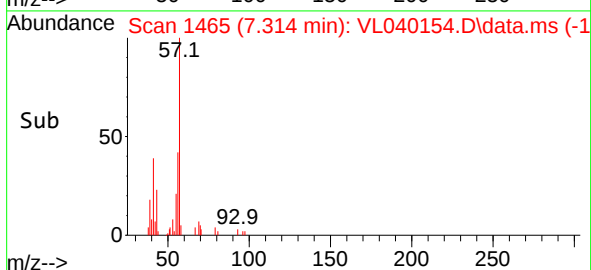
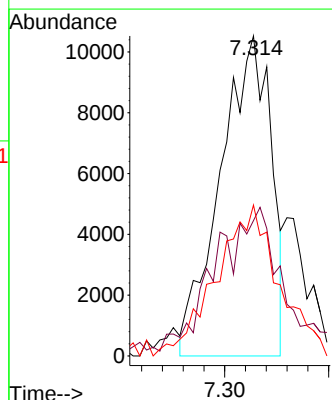
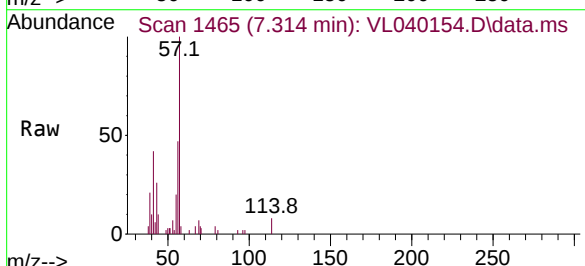
Tgt Ion: 57 Resp: 17851

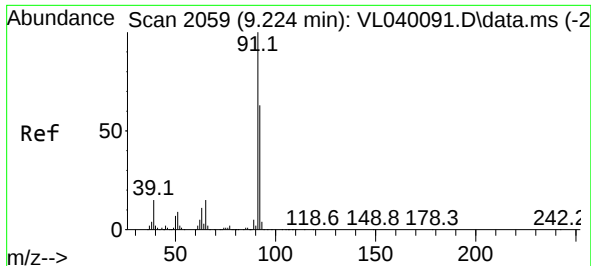
Ion Ratio Lower Upper

57 100

41 63.8 27.1 40.7#

56 59.0 25.0 37.4#

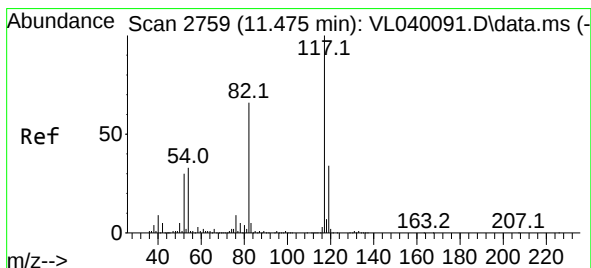
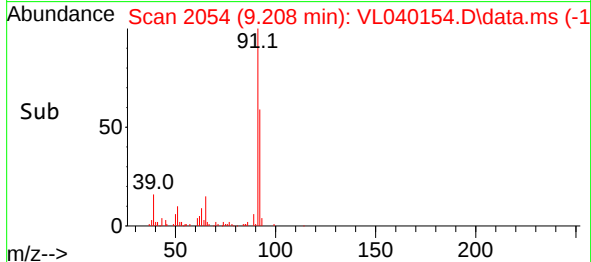
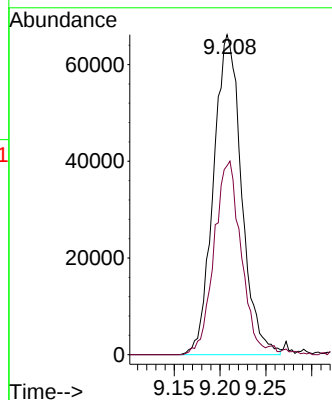
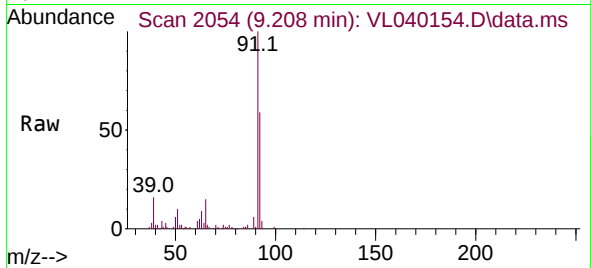




#53
Toluene
Concen: 0.806 ppbv
RT: 9.208 min Scan# 2054
Delta R.T. -0.003 min
Lab File: VL040154.D
Acq: 6 Feb 2023 20:22

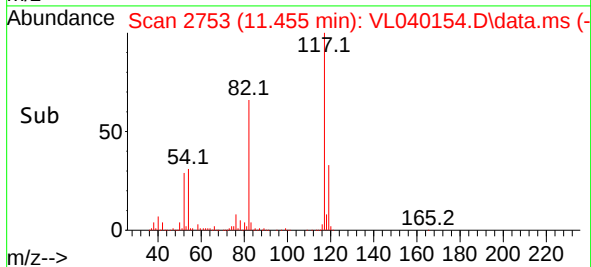
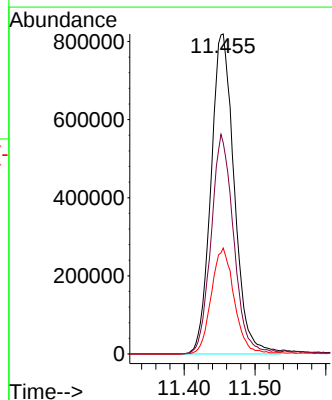
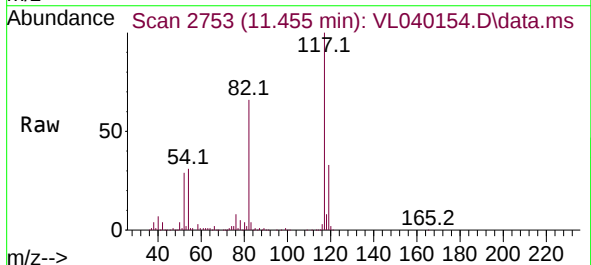
Instrument :
MSVOA_L
ClientSampleId :

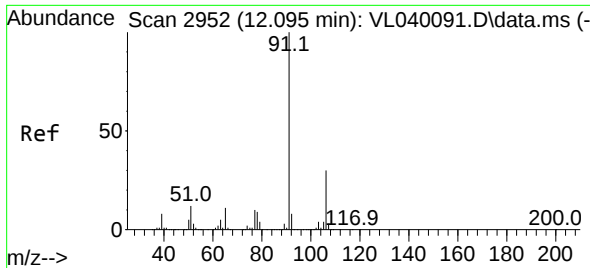
Tgt Ion: 91 Resp: 141020
Ion Ratio Lower Upper
91 100
92 59.5 48.3 72.5



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.455 min Scan# 2753
Delta R.T. -0.003 min
Lab File: VL040154.D
Acq: 6 Feb 2023 20:22

Tgt Ion: 117 Resp: 1870788
Ion Ratio Lower Upper
117 100
82 67.7 54.4 81.6
119 33.0 26.8 40.2

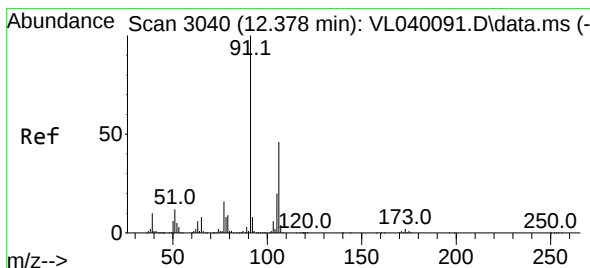
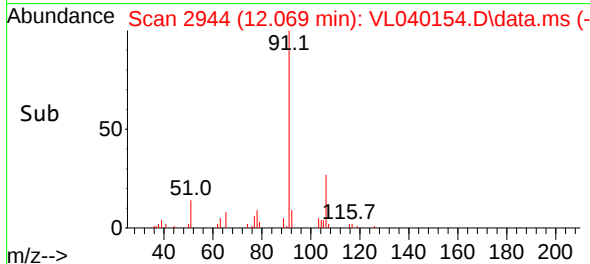
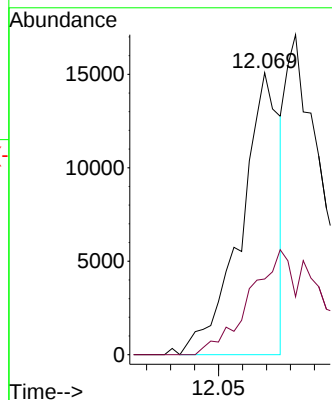
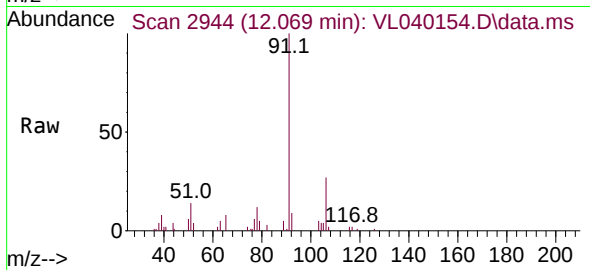




#58
Ethyl Benzene
Concen: 0.081 ppbv
RT: 12.069 min Scan# 2952
Delta R.T. -0.013 min
Lab File: VL040154.D
Acq: 6 Feb 2023 20:22

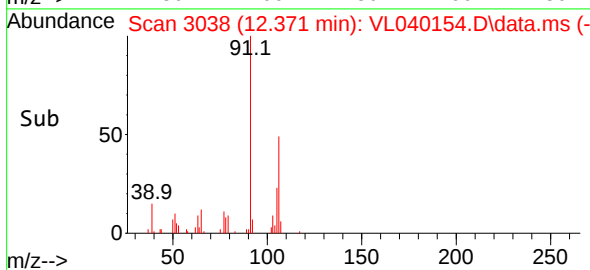
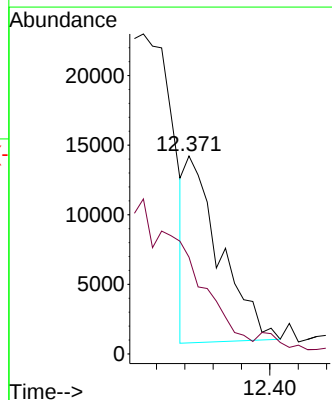
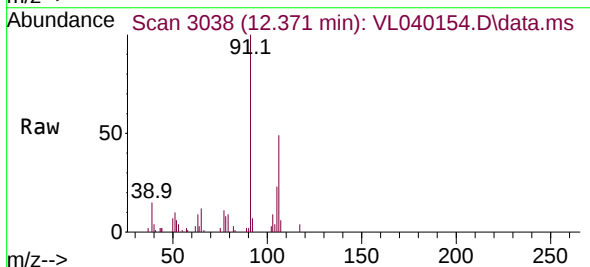
Instrument :
MSVOA_L
ClientSampleId :

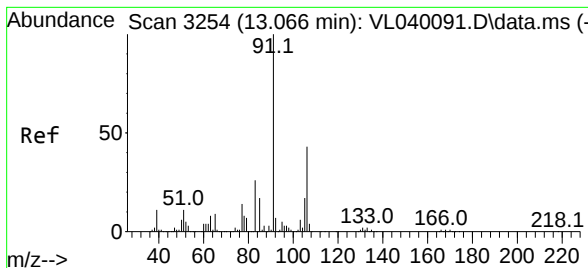
Tgt Ion: 91 Resp: 16864
Ion Ratio Lower Upper
91 100
106 26.9 23.7 35.5



#59
m/p-Xylene
Concen: 0.061 ppbv
RT: 12.371 min Scan# 3038
Delta R.T. 0.006 min
Lab File: VL040154.D
Acq: 6 Feb 2023 20:22

Tgt Ion: 91 Resp: 11358
Ion Ratio Lower Upper
91 100
106 0.0 34.2 51.4#





#60

o-Xylene

Concen: 0.084 ppbv

RT: 13.043 min Scan# 31

Delta R.T. -0.006 min

Lab File: VL040154.D

Acq: 6 Feb 2023 20:22

Instrument :

MSVOA_L

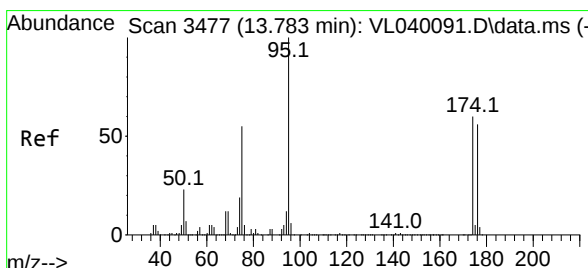
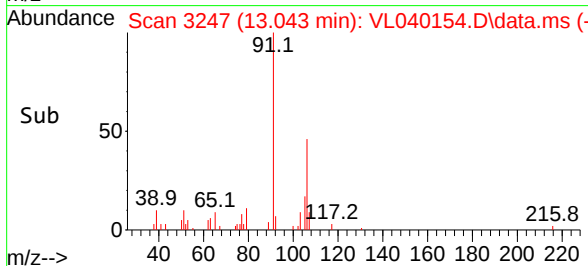
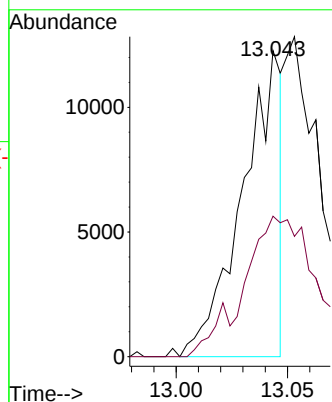
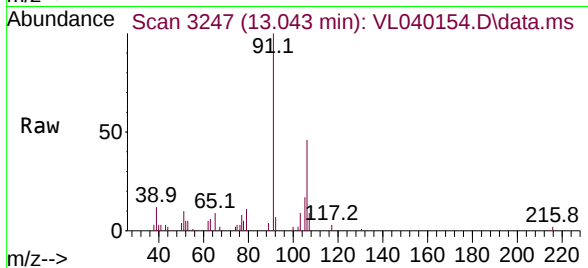
ClientSampleId :

Tgt Ion: 91 Resp: 14898

Ion Ratio Lower Upper

91 100

106 90.5 21.6 64.8#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.243 ppbv

RT: 13.767 min Scan# 3472

Delta R.T. -0.003 min

Lab File: VL040154.D

Acq: 6 Feb 2023 20:22

Tgt Ion: 95 Resp: 1437093

Ion Ratio Lower Upper

95 100

174 59.9 47.7 71.5

175 4.3 3.4 5.2

