

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090523\
 Data File : VL040647.D
 Acq On : 5 Sep 2023 14:44
 Operator : SY/MD
 Sample : 04281-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 06 02:05:59 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Aug 16 05:43:50 2023
 Response via : Initial Calibration

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

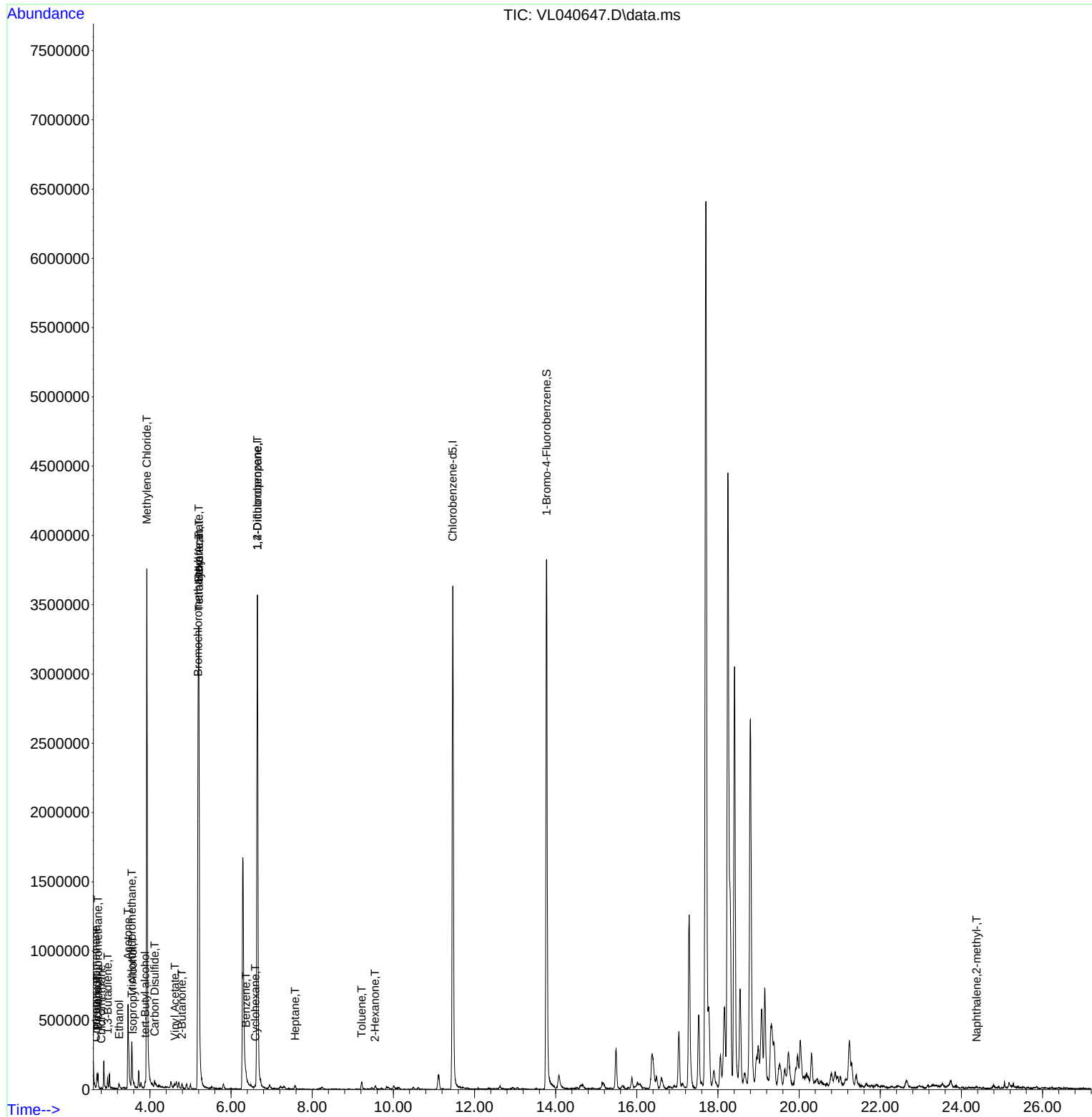
Internal Standards						
1) Bromochloromethane	5.185	49	998445	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.648	114	2632442	10.000	ppbv	-0.01
55) Chlorobenzene-d5	11.465	117	2297098	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.773	95	1844082	10.094	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.900%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.722	85	62334	0.290	ppbv	90
3) Chlorodifluoromethane	2.668	51	11430	0.070	ppbv	100
4) Chloromethane	2.803	50	2784	0.044	ppbv #	80
9) Propene	2.697	41	25162	0.495	ppbv #	80
10) Heptane	7.581	43	4054	0.035	ppbv #	1
11) Trichlorofluoromethane	3.552	101	205712	1.185	ppbv	96
13) Ethanol	3.240	45	17067	1.204	ppbv #	12
15) Acetone	3.462	43	660719	5.410	ppbv	97
16) 1,3-Butadiene	2.960	39	19090	0.314	ppbv #	25
17) tert-Butyl alcohol	3.880	59	13309	0.103	ppbv #	72
19) Isopropyl Alcohol	3.578	45	25388	0.328	ppbv #	93
20) Methylene Chloride	3.925	84	1337592	22.413	ppbv	99
23) Vinyl Acetate	4.620	43	6523	0.047	ppbv #	85
25) Ethyl Acetate	5.205	43	724609	3.159	ppbv #	76
26) Hexane	5.205	57	1104823	9.956	ppbv #	40
27) Carbon Disulfide	4.115	76	42489	0.322	ppbv #	81
30) Cyclohexane	6.597	84	2991	0.035	ppbv #	1
34) 2-Butanone	4.787	43	33832	0.255	ppbv #	85
36) Benzene	6.369	78	9560	0.046	ppbv	97
39) 1,2-Dichloropropane	6.648	63	664137	8.336	ppbv #	26
41) Tetrahydrofuran	5.208	42	393795	5.248	ppbv #	47
51) 2-Hexanone	9.545	43	7675	0.056	ppbv #	29
53) Toluene	9.217	91	35449	0.159	ppbv	92
80) Naphthalene,2-methyl-	24.374	142	2256	0.042	ppbv #	16

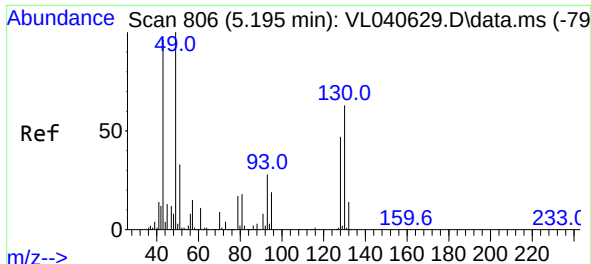
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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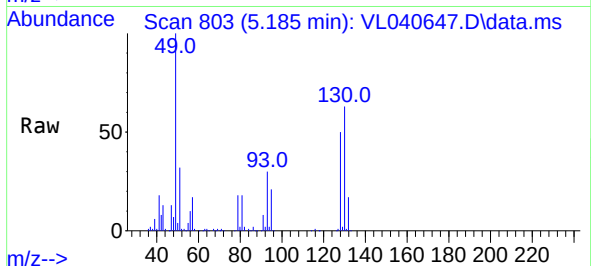
Quant Time: Sep 06 02:05:59 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081523AIR.M
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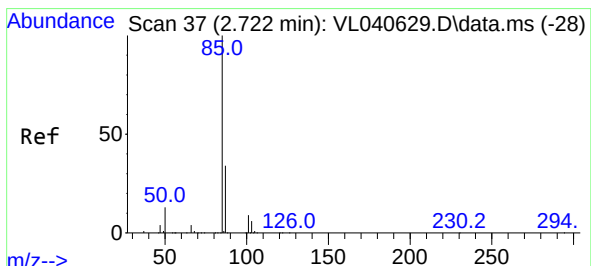
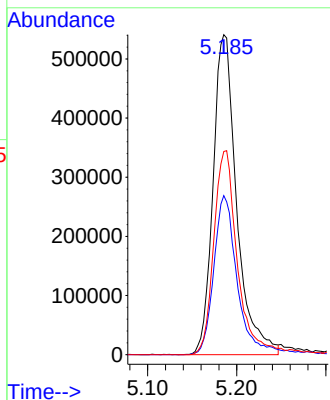
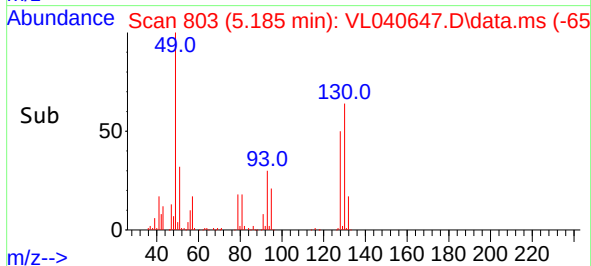


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.185 min Scan# 806
Delta R.T. -0.010 min
Lab File: VL040647.D
Acq: 5 Sep 2023 14:44

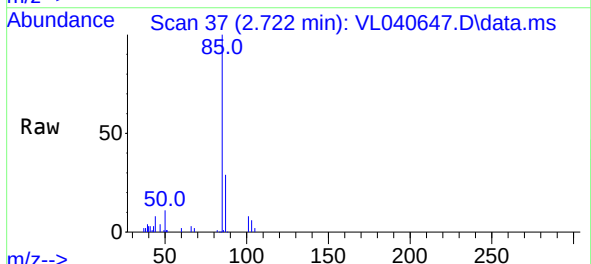
Instrument :
MSVOA_L
ClientSampleId :



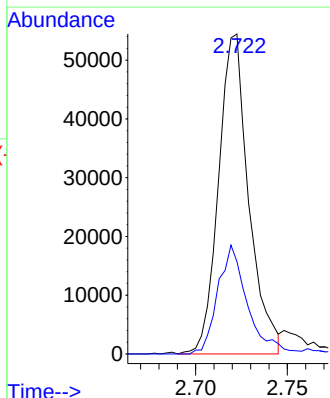
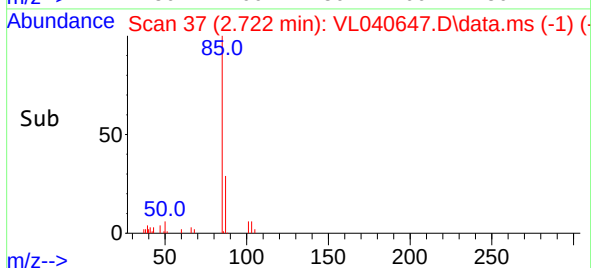
Tgt Ion: 49 Resp: 998445
Ion Ratio Lower Upper
49 100
128 50.3 24.9 74.7
130 65.6 32.2 96.6

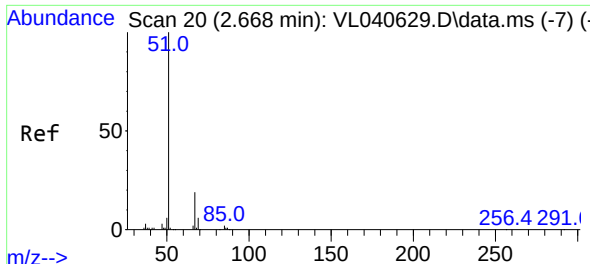


#2
Dichlorodifluoromethane
Concen: 0.290 ppbv
RT: 2.722 min Scan# 37
Delta R.T. 0.000 min
Lab File: VL040647.D
Acq: 5 Sep 2023 14:44



Tgt Ion: 85 Resp: 62334
Ion Ratio Lower Upper
85 100
87 28.9 27.5 41.3

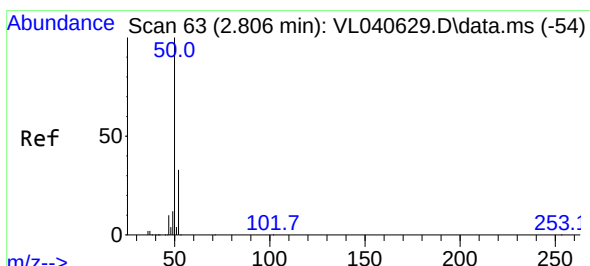
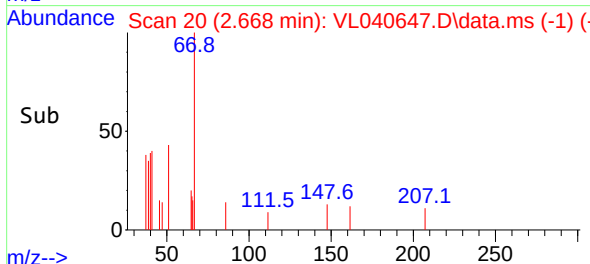
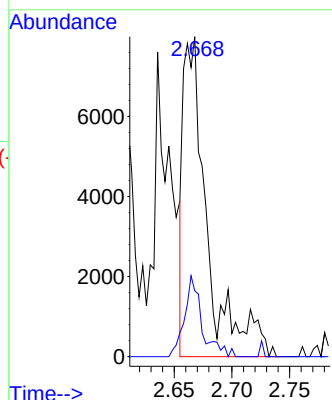
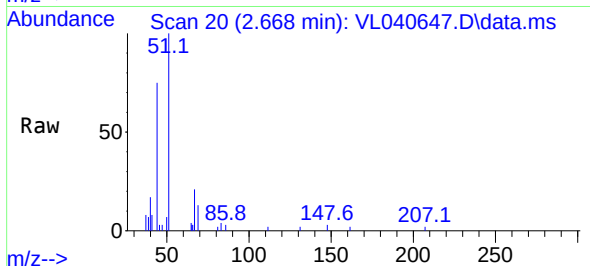




#3
Chlorodifluoromethane
Concen: 0.070 ppbv
RT: 2.668 min Scan# 20
Delta R.T. 0.000 min
Lab File: VL040647.D
Acq: 5 Sep 2023 14:44

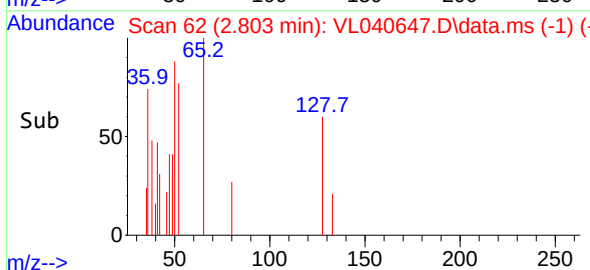
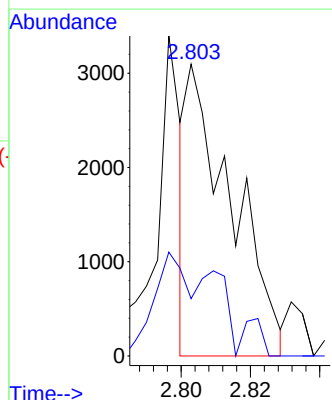
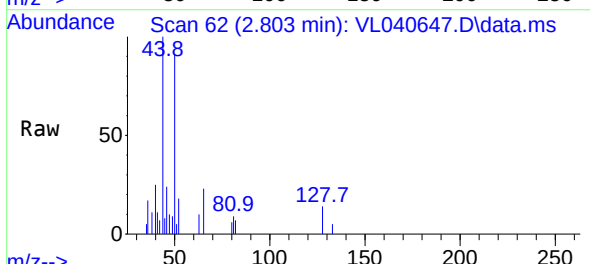
Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 51 Resp: 11430
Ion Ratio Lower Upper
51 100
67 18.7 15.0 22.6

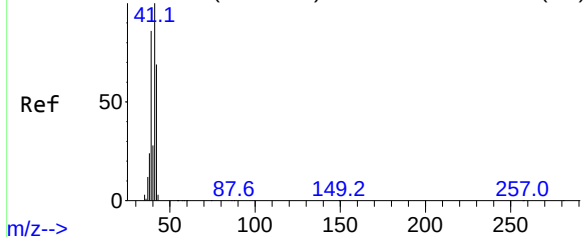


#4
Chloromethane
Concen: 0.044 ppbv
RT: 2.803 min Scan# 62
Delta R.T. -0.003 min
Lab File: VL040647.D
Acq: 5 Sep 2023 14:44

Tgt Ion: 50 Resp: 2784
Ion Ratio Lower Upper
50 100
52 21.6 26.2 39.2#



Abundance Scan 26 (2.687 min): VL040629.D\data.ms (-17)



#9

Propene

Concen: 0.495 ppbv

RT: 2.697 min Scan# 24

Delta R.T. 0.010 min

Lab File: VL040647.D

Acq: 5 Sep 2023 14:44

Instrument :

MSVOA_L

ClientSampleId :

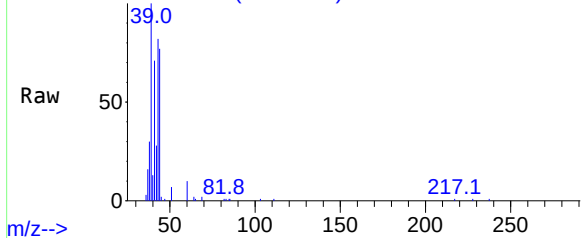
Tgt Ion: 41 Resp: 25162

Ion Ratio Lower Upper

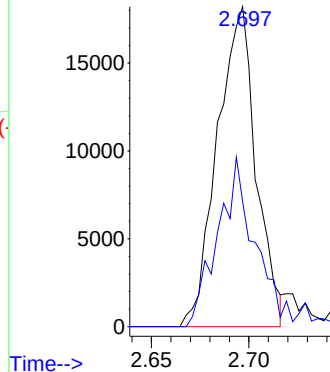
41 100

42 53.9 56.5 84.7#

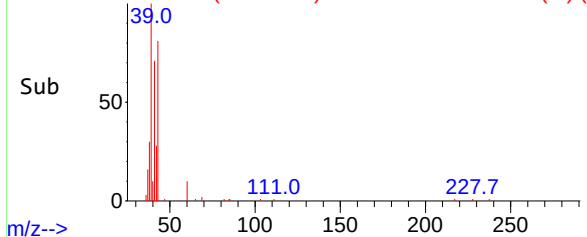
Abundance Scan 29 (2.697 min): VL040647.D\data.ms



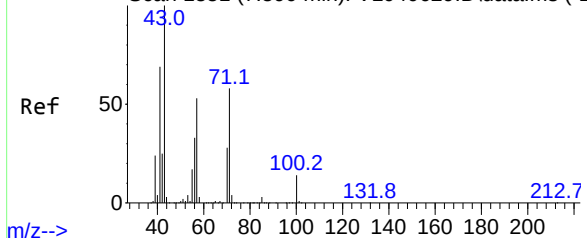
Abundance



Abundance Scan 29 (2.697 min): VL040647.D\data.ms (-1)



Abundance Scan 1551 (7.590 min): VL040629.D\data.ms (-1)



#10

Heptane

Concen: 0.035 ppbv

RT: 7.581 min Scan# 1548

Delta R.T. -0.010 min

Lab File: VL040647.D

Acq: 5 Sep 2023 14:44

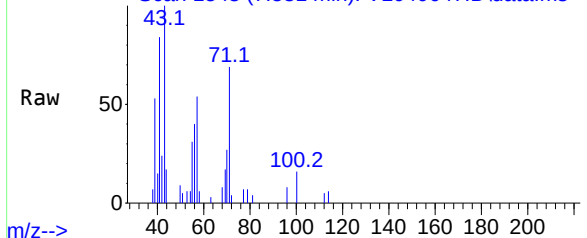
Tgt Ion: 43 Resp: 4054

Ion Ratio Lower Upper

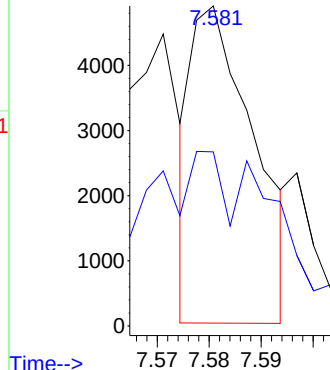
43 100

57 138.9 42.5 63.7#

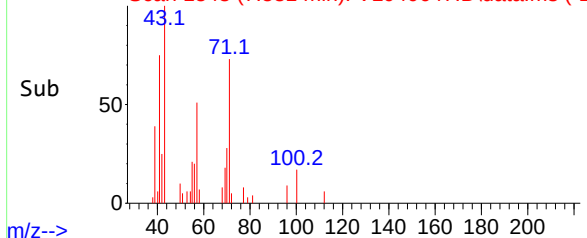
Abundance Scan 1548 (7.581 min): VL040647.D\data.ms

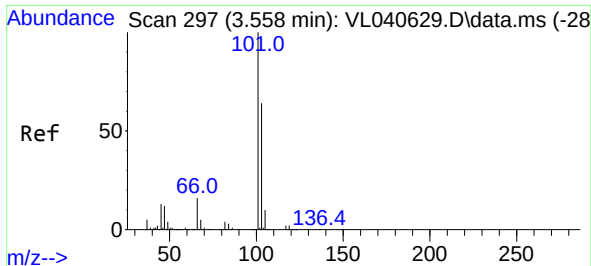


Abundance



Abundance Scan 1548 (7.581 min): VL040647.D\data.ms (-1)

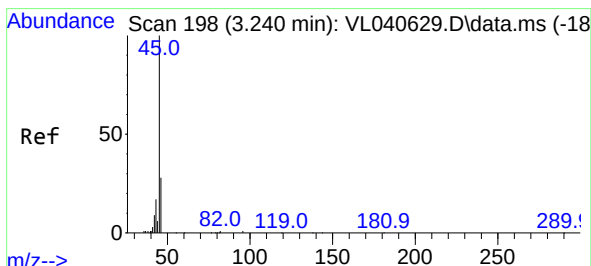
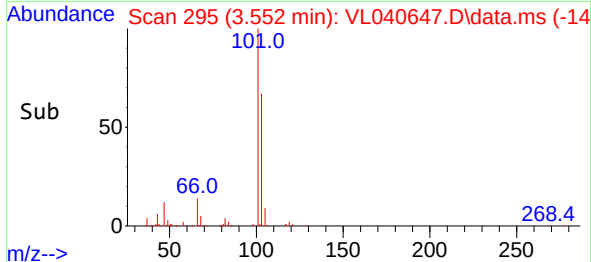
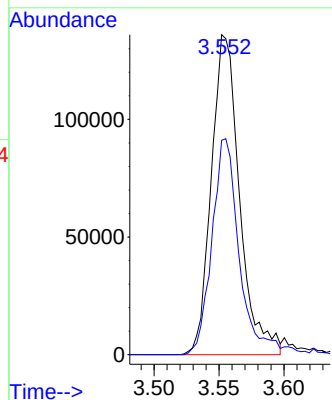
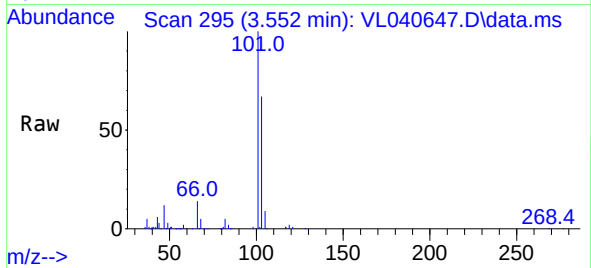




#11
 Trichlorofluoromethane
 Concen: 1.185 ppbv
 RT: 3.552 min Scan# 297
 Delta R.T. -0.006 min
 Lab File: VL040647.D
 Acq: 5 Sep 2023 14:44

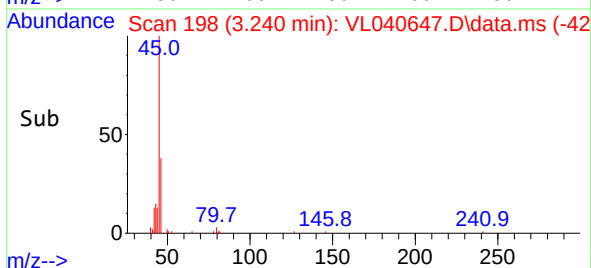
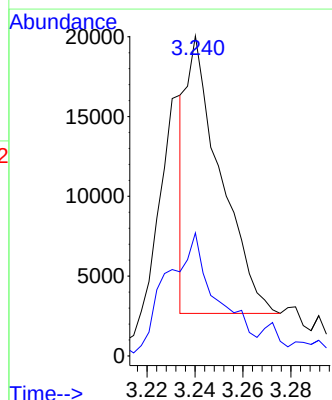
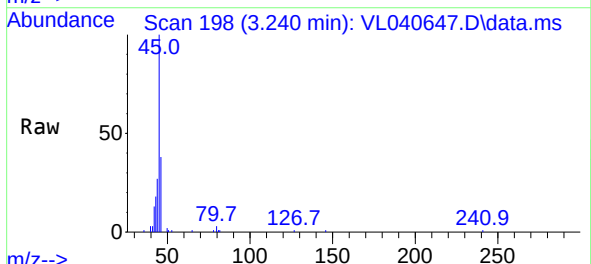
Instrument :
 MSVOA_L
 ClientSampleId :

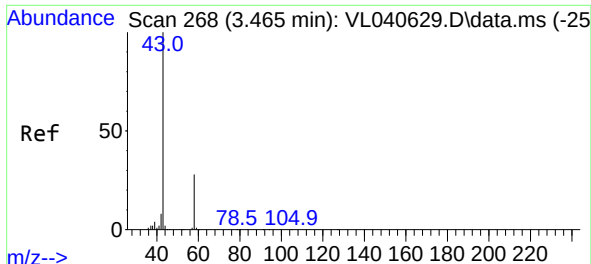
Tgt Ion:101 Resp: 205712
 Ion Ratio Lower Upper
 101 100
 103 67.0 51.1 76.7



#13
 Ethanol
 Concen: 1.204 ppbv
 RT: 3.240 min Scan# 198
 Delta R.T. 0.000 min
 Lab File: VL040647.D
 Acq: 5 Sep 2023 14:44

Tgt Ion: 45 Resp: 17067
 Ion Ratio Lower Upper
 45 100
 46 86.7 14.2 56.6#

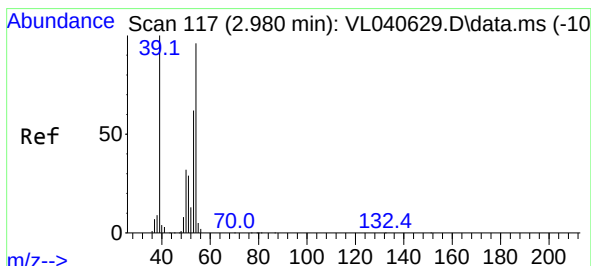
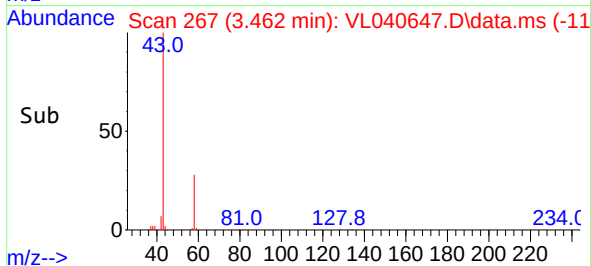
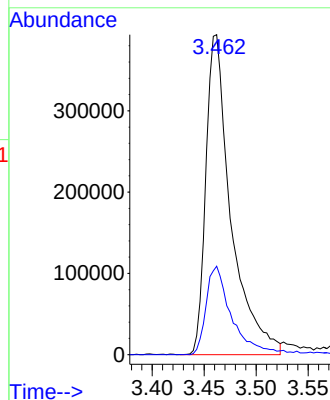
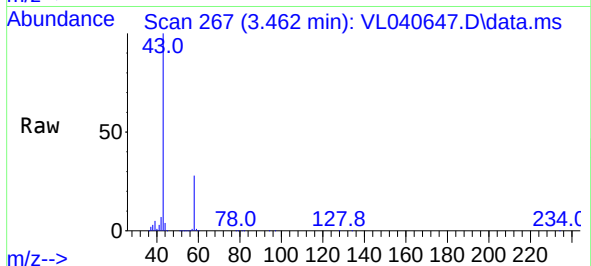




#15
Acetone
Concen: 5.410 ppbv
RT: 3.462 min Scan# 20
Delta R.T. -0.003 min
Lab File: VL040647.D
Acq: 5 Sep 2023 14:44

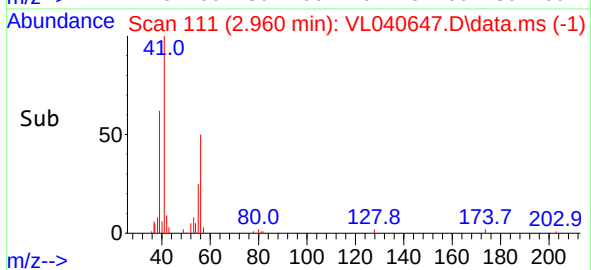
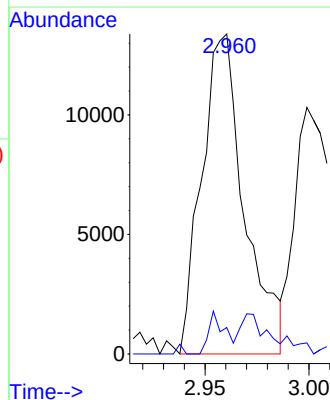
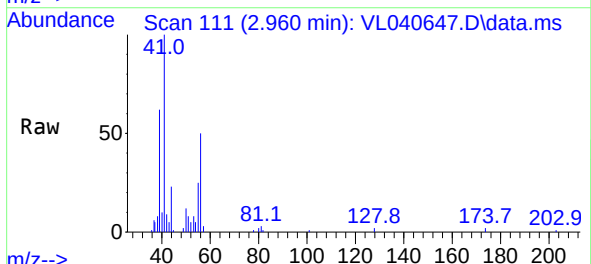
Instrument :
MSVOA_L
ClientSampleId :

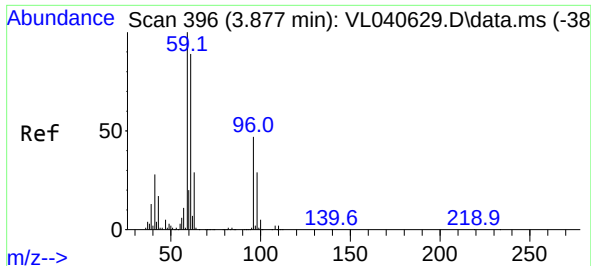
Tgt Ion: 43 Resp: 660719
Ion Ratio Lower Upper
43 100
58 29.6 22.4 33.6



#16
1,3-Butadiene
Concen: 0.314 ppbv
RT: 2.960 min Scan# 111
Delta R.T. -0.019 min
Lab File: VL040647.D
Acq: 5 Sep 2023 14:44

Tgt Ion: 39 Resp: 19090
Ion Ratio Lower Upper
39 100
54 15.2 66.6 99.8#

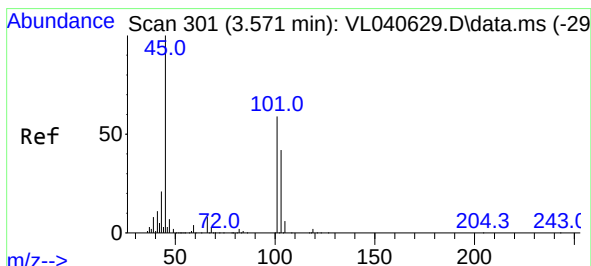
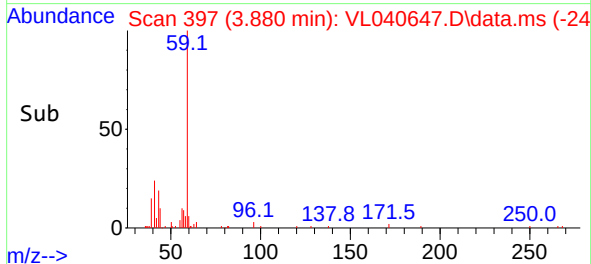
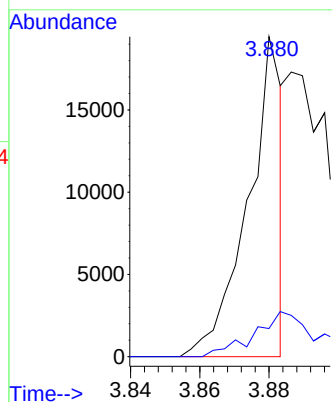
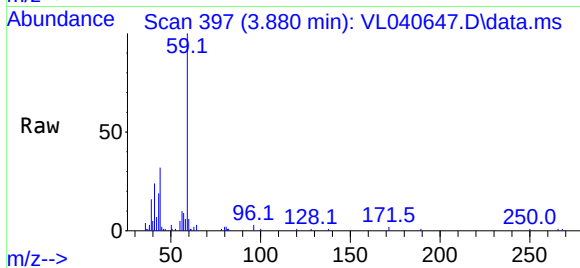




#17
tert-Butyl alcohol
Concen: 0.103 ppbv
RT: 3.880 min Scan# 303
Delta R.T. 0.003 min
Lab File: VL040647.D
Acq: 5 Sep 2023 14:44

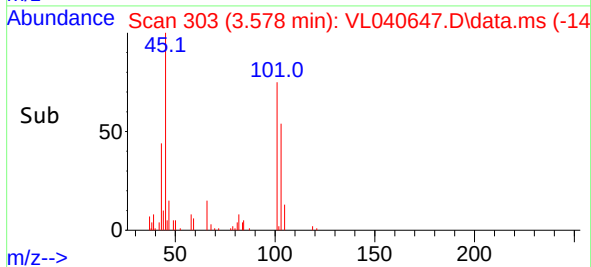
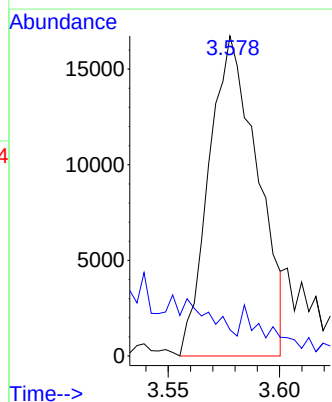
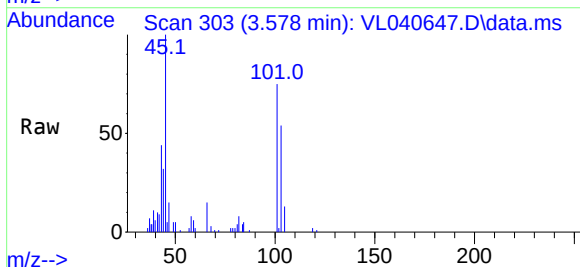
Instrument :
MSVOA_L
ClientSampleId :

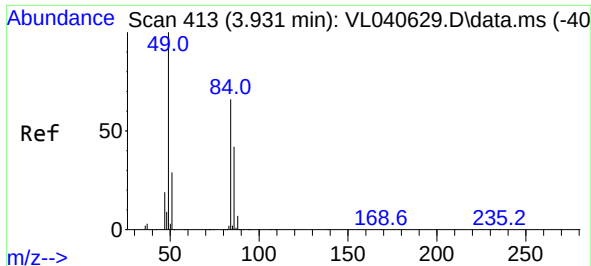
Tgt Ion: 59 Resp: 13309
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#



#19
Isopropyl Alcohol
Concen: 0.328 ppbv
RT: 3.578 min Scan# 303
Delta R.T. 0.006 min
Lab File: VL040647.D
Acq: 5 Sep 2023 14:44

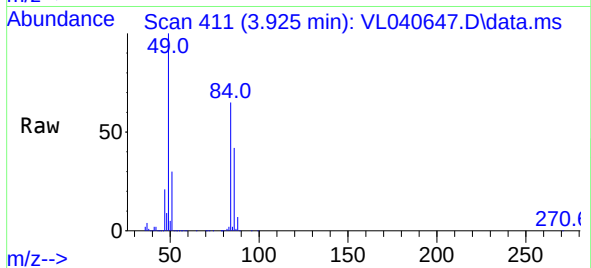
Tgt Ion: 45 Resp: 25388
Ion Ratio Lower Upper
45 100
58 0.0 1.9 2.9#





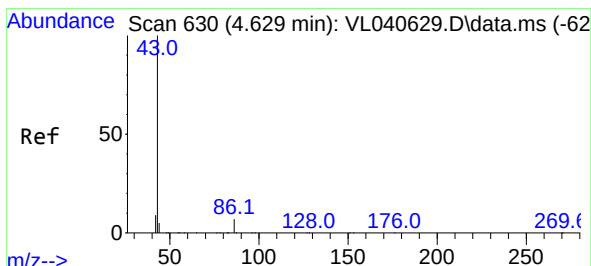
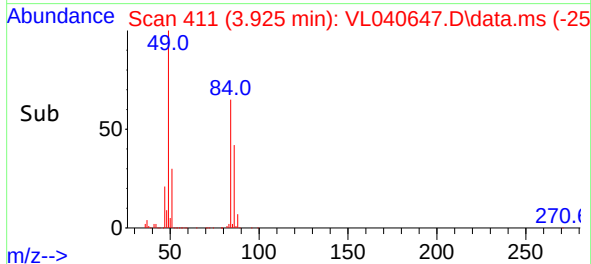
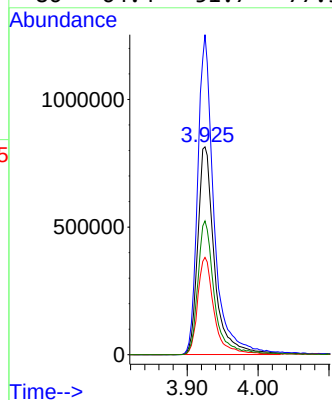
#20
Methylene Chloride
Concen: 22.413 ppbv
RT: 3.925 min Scan# 41
Delta R.T. -0.006 min
Lab File: VL040647.D
Acq: 5 Sep 2023 14:44

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 84 Resp: 1337592

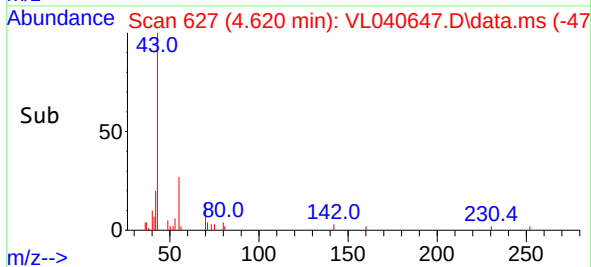
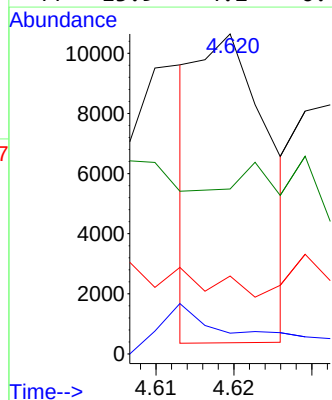
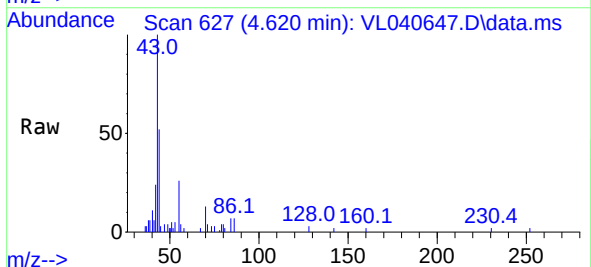
Ion	Ratio	Lower	Upper
84	100		
49	154.0	122.1	183.1
51	46.8	35.4	53.2
86	64.4	51.7	77.5

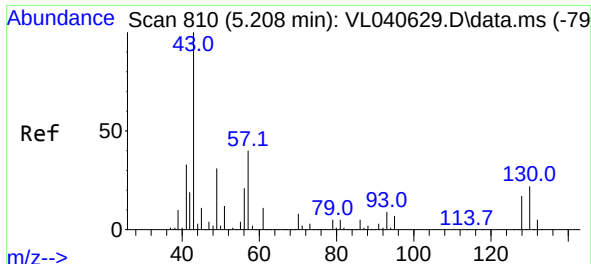


#23
Vinyl Acetate
Concen: 0.047 ppbv
RT: 4.620 min Scan# 627
Delta R.T. -0.010 min
Lab File: VL040647.D
Acq: 5 Sep 2023 14:44

Tgt Ion: 43 Resp: 6523

Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.0	7.6#
42	7.5	7.8	11.8#
44	13.9	4.2	6.4#

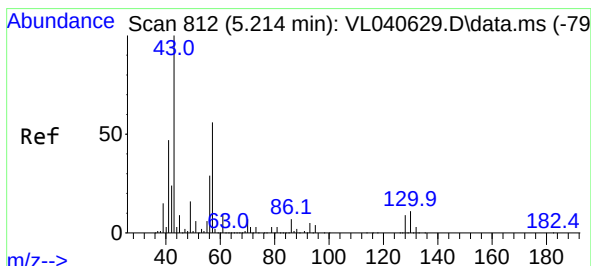
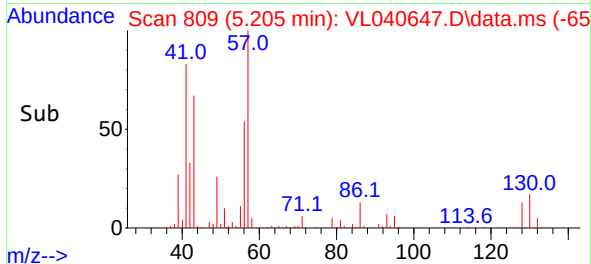
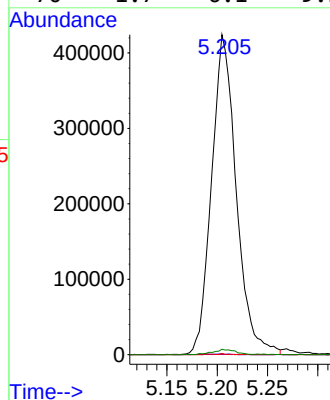
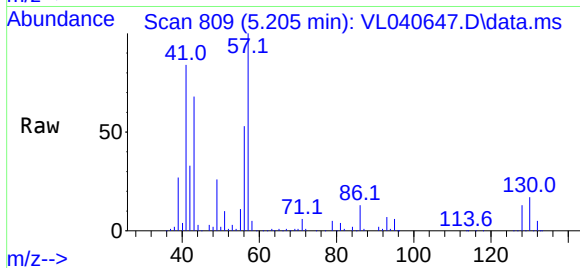




#25
Ethyl Acetate
Concen: 3.159 ppbv
RT: 5.205 min Scan# 809
Delta R.T. -0.003 min
Lab File: VL040647.D
Acq: 5 Sep 2023 14:44

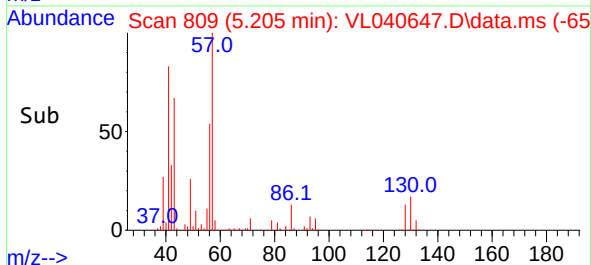
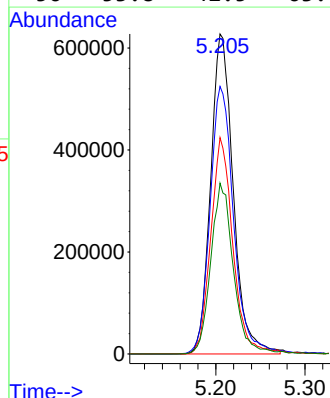
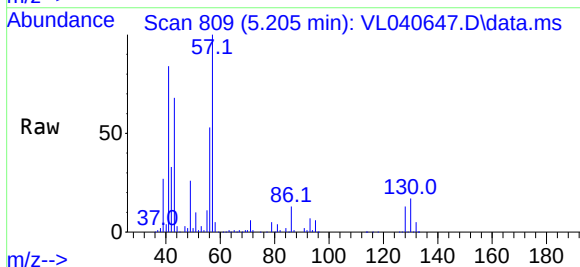
Instrument :
MSVOA_L
ClientSampleId :

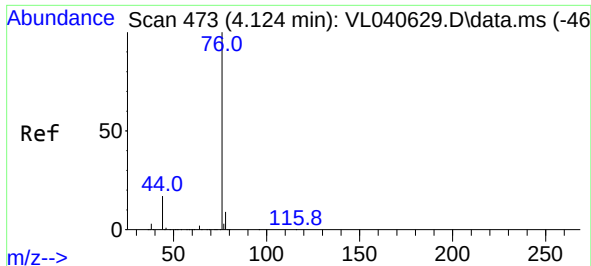
Tgt Ion: 43 Resp: 724609
Ion Ratio Lower Upper
43 100
45 0.2 8.2 12.4#
61 0.2 8.3 12.5#
70 1.7 6.1 9.1#



#26
Hexane
Concen: 9.956 ppbv
RT: 5.205 min Scan# 809
Delta R.T. -0.010 min
Lab File: VL040647.D
Acq: 5 Sep 2023 14:44

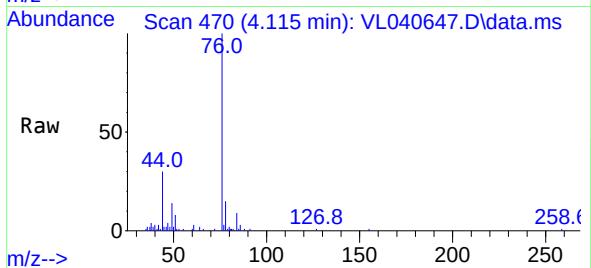
Tgt Ion: 57 Resp: 1104823
Ion Ratio Lower Upper
57 100
41 88.1 69.3 103.9
43 66.5 177.9 266.9#
56 53.8 42.5 63.7



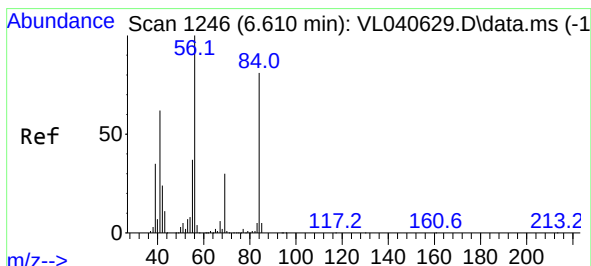
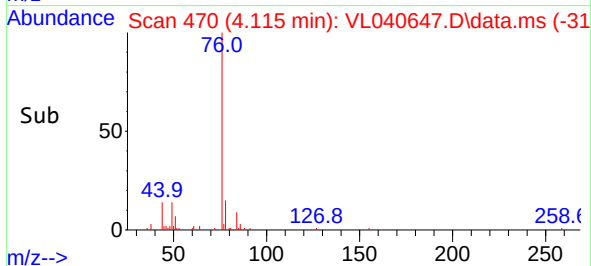
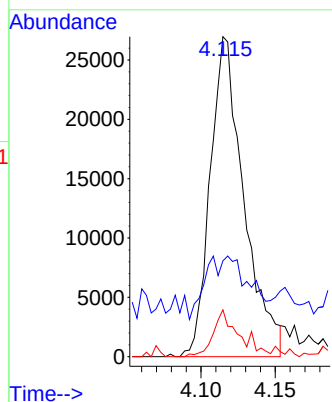


#27
Carbon Disulfide
Concen: 0.322 ppbv
RT: 4.115 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL040647.D
Acq: 5 Sep 2023 14:44

Instrument :
MSVOA_L
ClientSampleId :

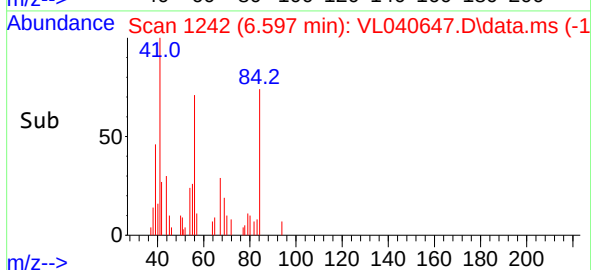
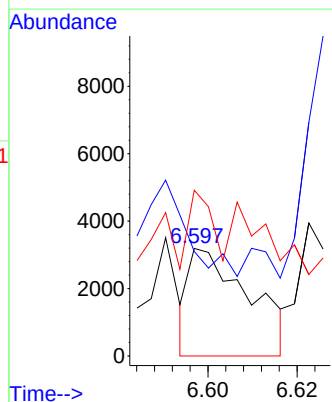
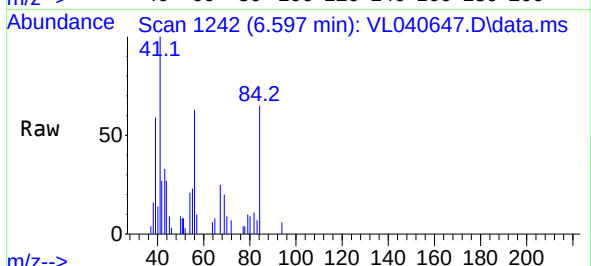


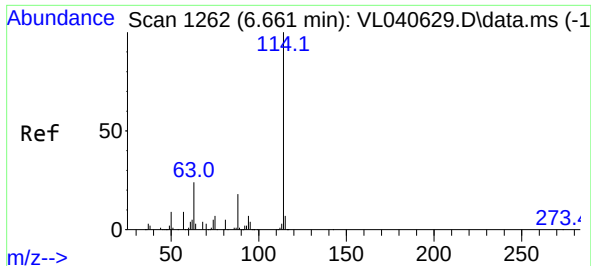
Tgt Ion: 76 Resp: 42489
Ion Ratio Lower Upper
76 100
44 28.5 14.3 21.5#
78 12.3 7.4 11.0#



#30
Cyclohexane
Concen: 0.035 ppbv
RT: 6.597 min Scan# 1242
Delta R.T. -0.013 min
Lab File: VL040647.D
Acq: 5 Sep 2023 14:44

Tgt Ion: 84 Resp: 2991
Ion Ratio Lower Upper
84 100
56 0.0 105.4 158.2#
41 0.0 64.2 96.2#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.648 min Scan# 11

Delta R.T. -0.013 min

Lab File: VL040647.D

Acq: 5 Sep 2023 14:44

Instrument :

MSVOA_L

ClientSampleId :

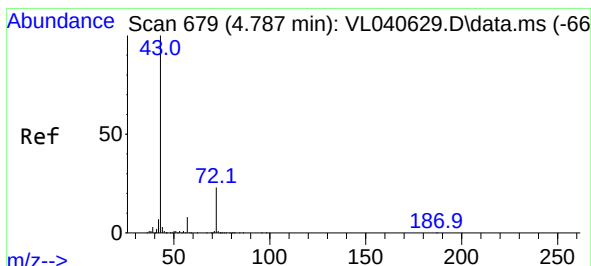
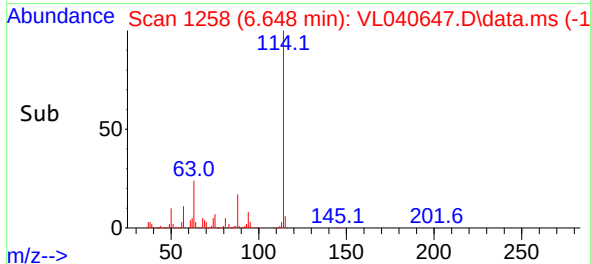
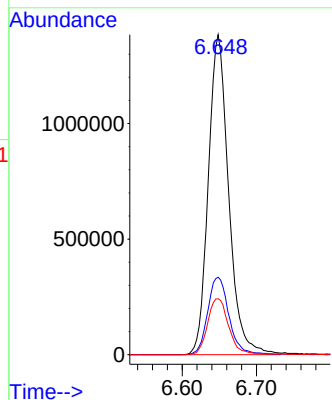
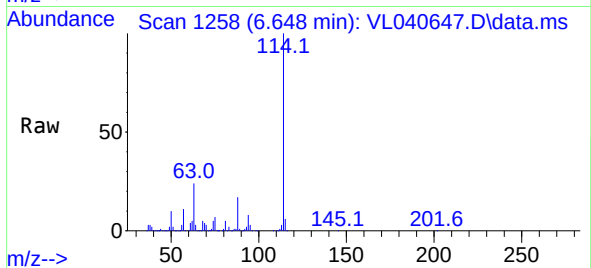
Tgt Ion:114 Resp: 2632442

Ion Ratio Lower Upper

114 100

63 25.6 20.2 30.2

88 18.3 14.1 21.1



#34

2-Butanone

Concen: 0.255 ppbv

RT: 4.787 min Scan# 679

Delta R.T. 0.000 min

Lab File: VL040647.D

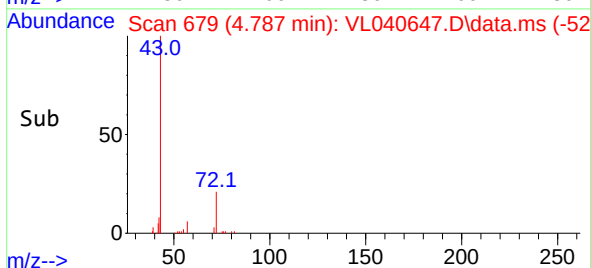
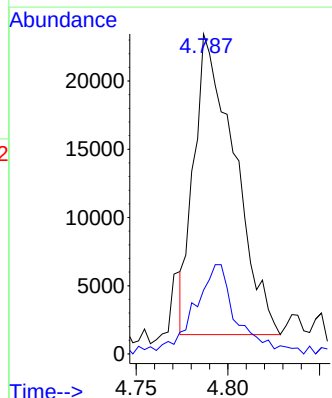
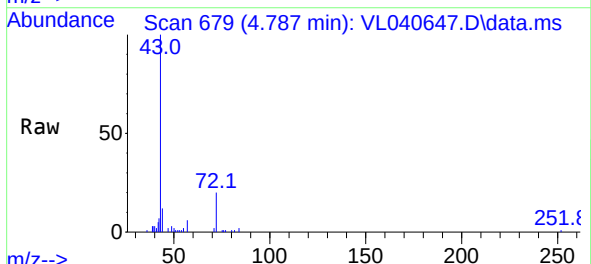
Acq: 5 Sep 2023 14:44

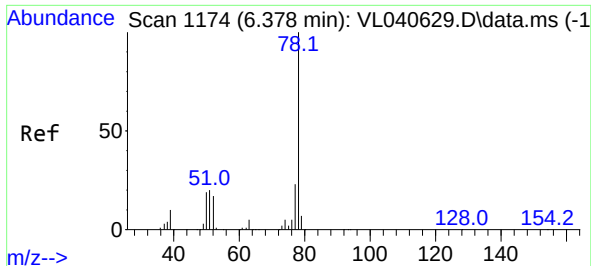
Tgt Ion: 43 Resp: 33832

Ion Ratio Lower Upper

43 100

72 31.5 19.2 28.8#

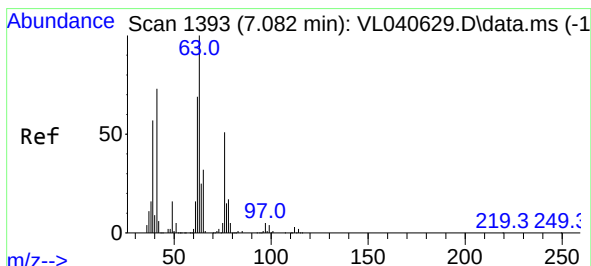
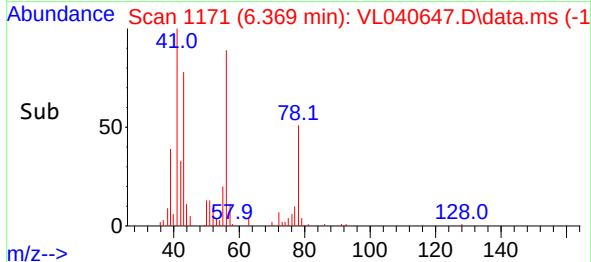
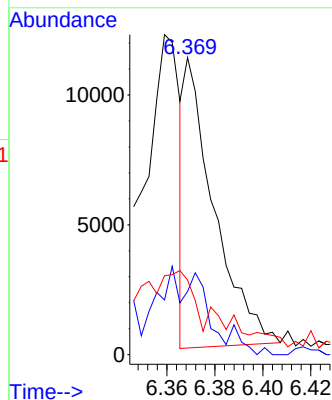
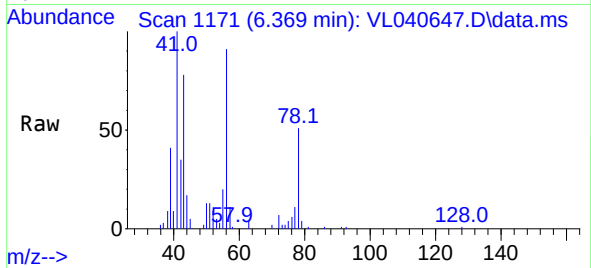




#36
Benzene
Concen: 0.046 ppbv
RT: 6.369 min Scan# 1174
Delta R.T. -0.010 min
Lab File: VL040647.D
Acq: 5 Sep 2023 14:44

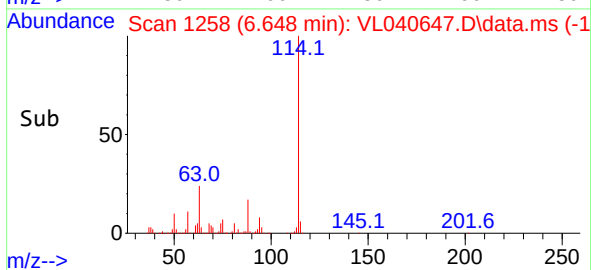
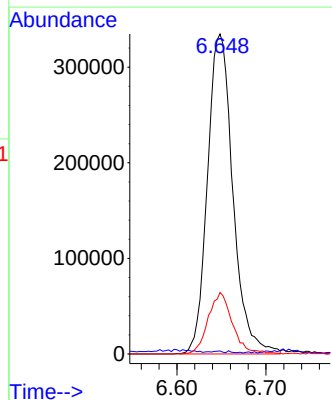
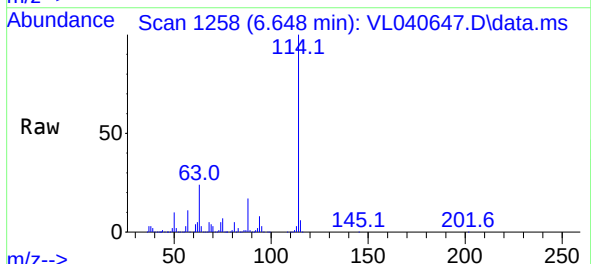
Instrument :
MSVOA_L
ClientSampleId :

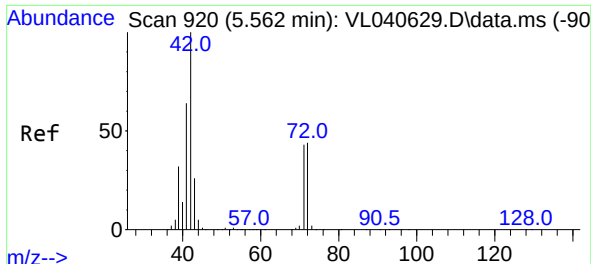
Tgt Ion: 78 Resp: 9560
Ion Ratio Lower Upper
78 100
77 22.2 18.2 27.2
50 16.3 15.0 22.6



#39
1,2-Dichloropropane
Concen: 8.336 ppbv
RT: 6.648 min Scan# 1258
Delta R.T. -0.434 min
Lab File: VL040647.D
Acq: 5 Sep 2023 14:44

Tgt Ion: 63 Resp: 664137
Ion Ratio Lower Upper
63 100
41 0.1 58.2 87.2#
62 19.1 55.0 82.4#

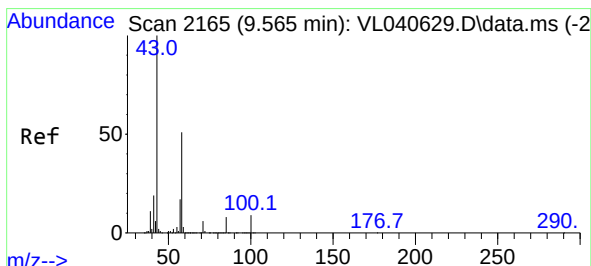
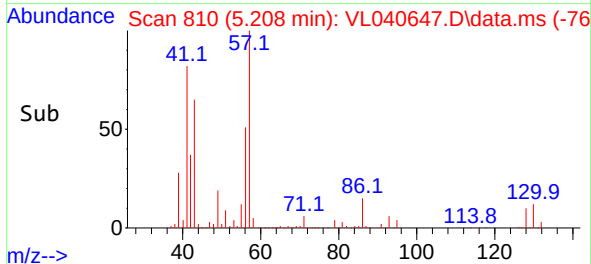
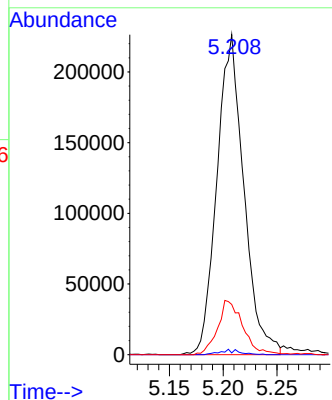
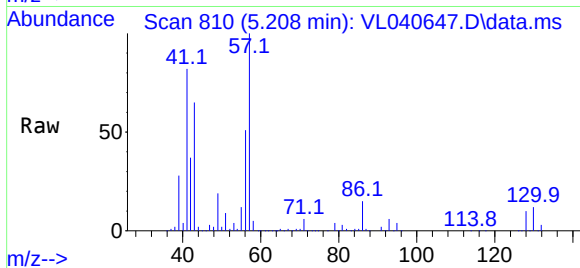




#41
Tetrahydrofuran
Concen: 5.248 ppbv
RT: 5.208 min Scan# 81
Delta R.T. -0.354 min
Lab File: VL040647.D
Acq: 5 Sep 2023 14:44

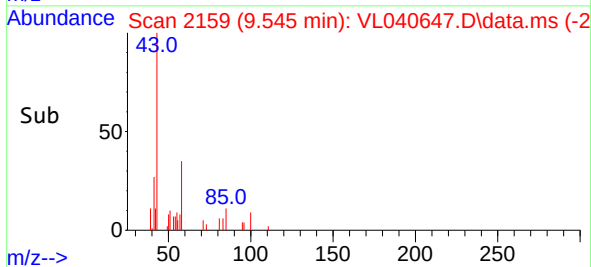
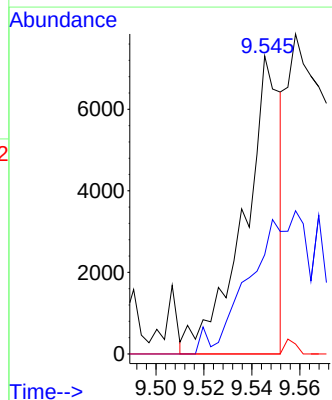
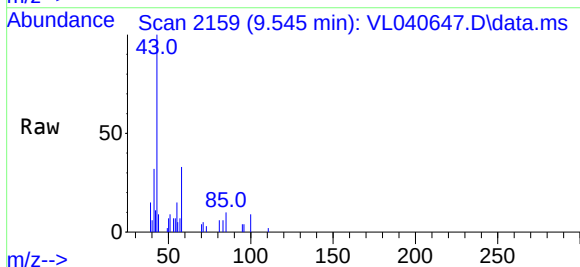
Instrument :
MSVOA_L
ClientSampleId :

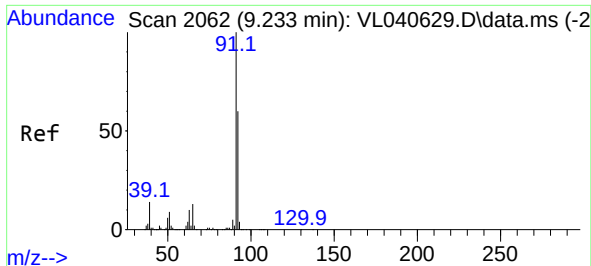
Tgt Ion: 42 Resp: 393795
Ion Ratio Lower Upper
42 100
72 1.1 34.2 51.4#
71 16.2 33.4 50.0#



#51
2-Hexanone
Concen: 0.056 ppbv
RT: 9.545 min Scan# 2159
Delta R.T. -0.019 min
Lab File: VL040647.D
Acq: 5 Sep 2023 14:44

Tgt Ion: 43 Resp: 7675
Ion Ratio Lower Upper
43 100
58 0.0 39.4 59.2#
98 0.0 0.4 0.6#

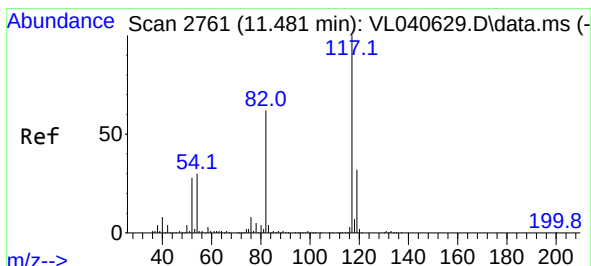
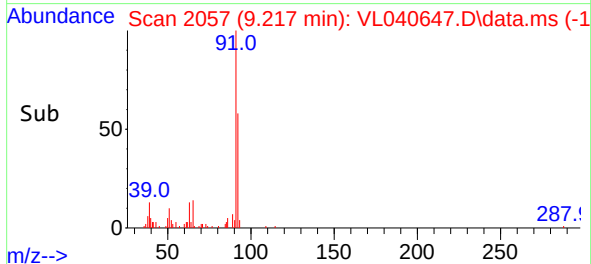
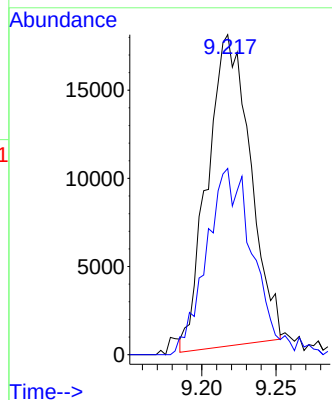
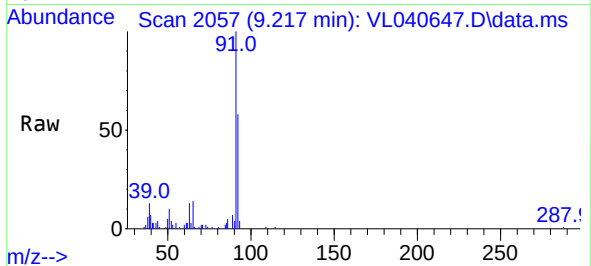




#53
Toluene
Concen: 0.159 ppbv
RT: 9.217 min Scan# 2062
Delta R.T. -0.016 min
Lab File: VL040647.D
Acq: 5 Sep 2023 14:44

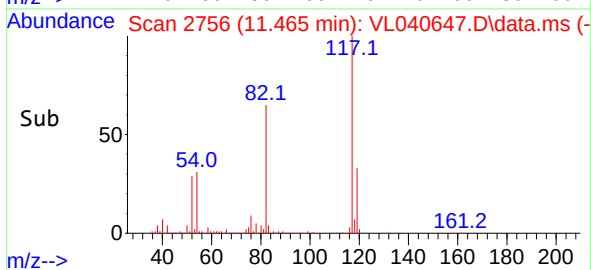
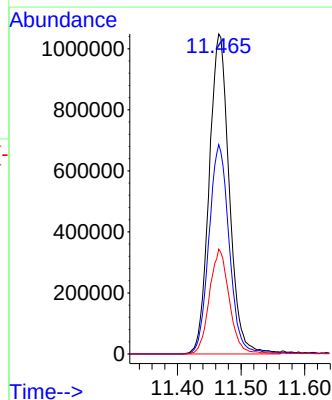
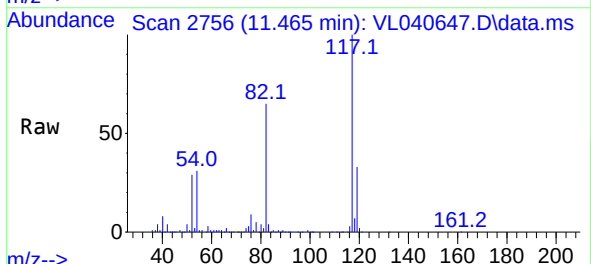
Instrument :
MSVOA_L
ClientSampleId :

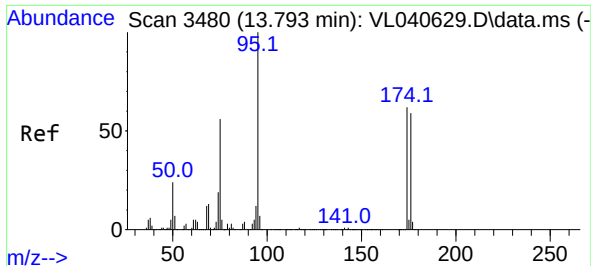
Tgt Ion: 91 Resp: 35449
Ion Ratio Lower Upper
91 100
92 66.2 48.0 72.0



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.465 min Scan# 2756
Delta R.T. -0.016 min
Lab File: VL040647.D
Acq: 5 Sep 2023 14:44

Tgt Ion: 117 Resp: 2297098
Ion Ratio Lower Upper
117 100
82 66.5 49.5 74.3
119 32.4 24.5 36.7

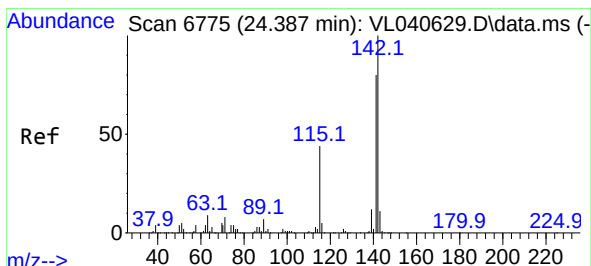
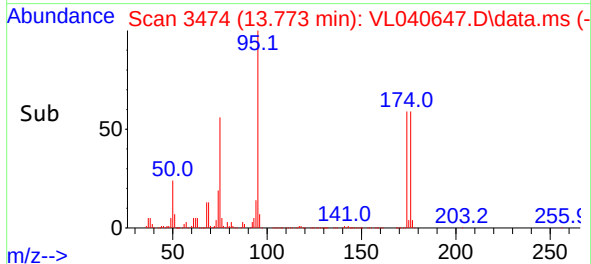
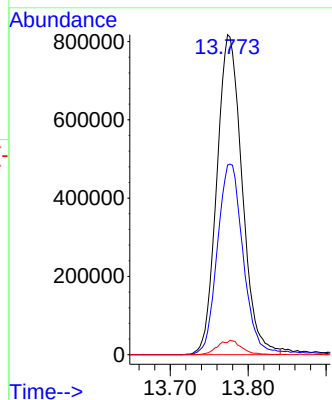
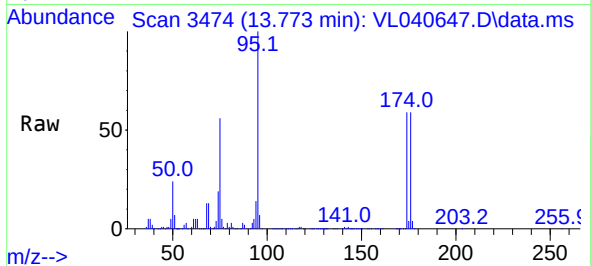




#68
1-Bromo-4-Fluorobenzene
Concen: 10.094 ppbv
RT: 13.773 min Scan# 3480
Delta R.T. -0.019 min
Lab File: VL040647.D
Acq: 5 Sep 2023 14:44

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 95 Resp: 1844082
Ion Ratio Lower Upper
95 100
174 61.7 49.1 73.7
175 4.3 3.7 5.5



#80
Naphthalene,2-methyl-
Concen: 0.042 ppbv
RT: 24.374 min Scan# 6771
Delta R.T. -0.013 min
Lab File: VL040647.D
Acq: 5 Sep 2023 14:44

Tgt Ion:142 Resp: 2256
Ion Ratio Lower Upper
142 100
141 180.8 64.6 96.8#
115 60.2 33.7 50.5#

