

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051123\
 Data File : VL040414.D
 Acq On : 12 May 2023 9:01
 Operator : SY/MD
 Sample : 02761-01DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-03-20230511DL

Quant Time: May 12 15:57:37 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041323AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Apr 13 14:37:02 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.176	49	1148766	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	6.639	114	3008386	10.000	ppbv	-0.02
55) Chlorobenzene-d5	11.458	117	2650417	10.000	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.773	95	2065215	9.423	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.200%

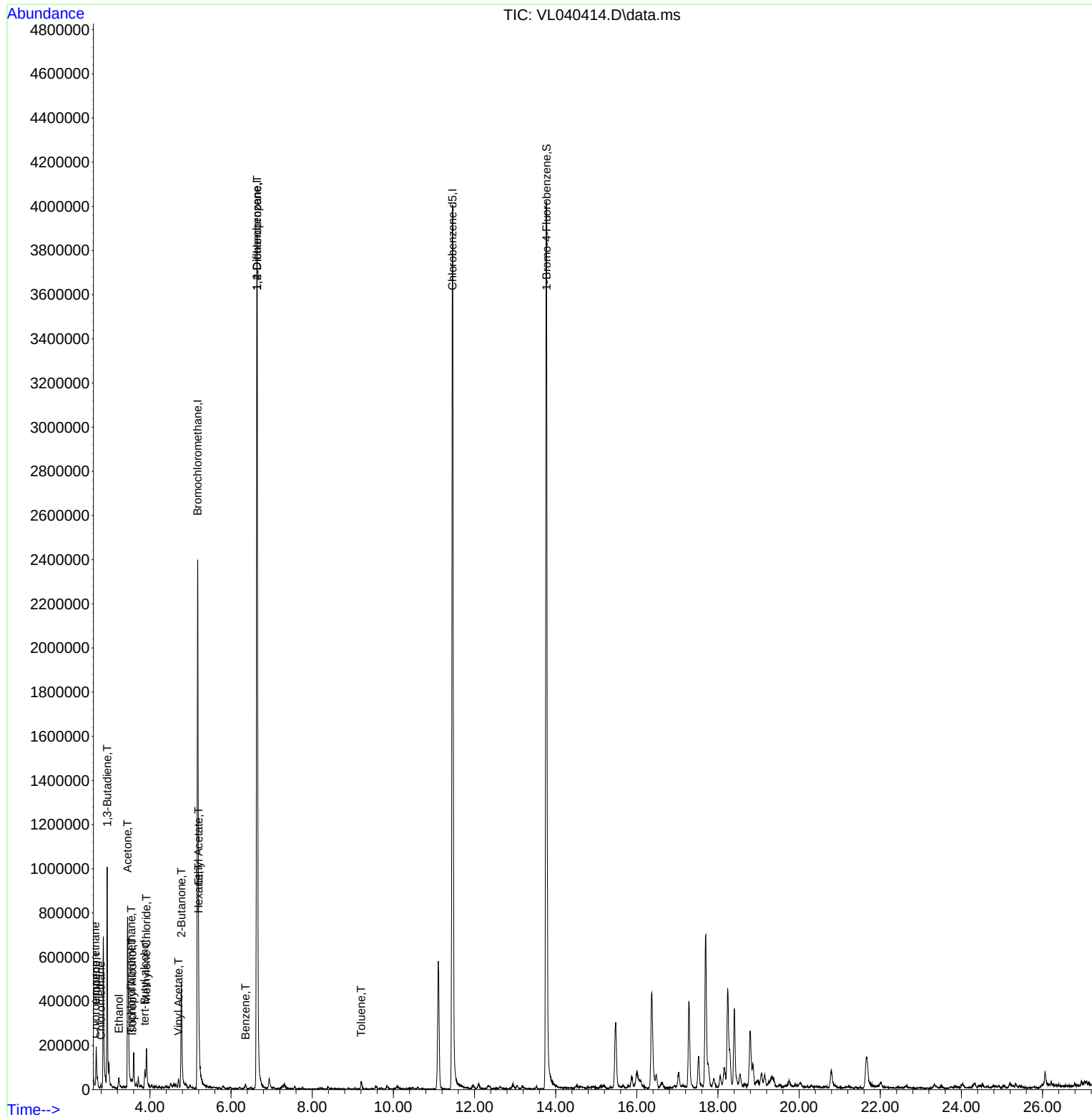
Target Compounds						Qvalue
3) Chlorodifluoromethane	2.655	51	17707	0.118	ppbv #	87
4) Chloromethane	2.793	50	11574	0.122	ppbv #	84
9) Propene	2.674	41	68068	1.148	ppbv	97
11) Trichlorofluoromethane	3.542	101	8593	0.041	ppbv	95
13) Ethanol	3.234	45	46977	9.489	ppbv	91
15) Acetone	3.449	43	810936	4.984	ppbv #	68
16) 1,3-Butadiene	2.947	39	251241	3.731	ppbv #	13
17) tert-Butyl alcohol	3.873	59	63213	0.423	ppbv #	92
19) Isopropyl Alcohol	3.565	45	11722	0.158	ppbv #	90
20) Methylene Chloride	3.915	84	55156	0.849	ppbv	98
23) Vinyl Acetate	4.703	43	6332	0.153	ppbv #	24
25) Ethyl Acetate	5.198	43	42746	0.156	ppbv #	83
26) Hexane	5.201	57	56531	0.490	ppbv #	43
34) 2-Butanone	4.774	43	588494	3.628	ppbv	98
36) Benzene	6.352	78	7908	0.032	ppbv #	80
39) 1,2-Dichloropropane	6.642	63	735059	7.611	ppbv #	25
53) Toluene	9.208	91	10843	0.042	ppbv #	20

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

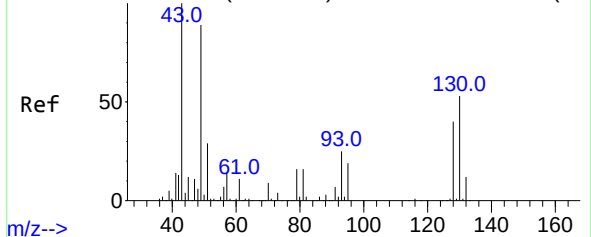
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051123\
Data File : VL040414.D
Acq On : 12 May 2023 9:01
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041323AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Apr 13 14:37:02 2023
Response via : Initial Calibration

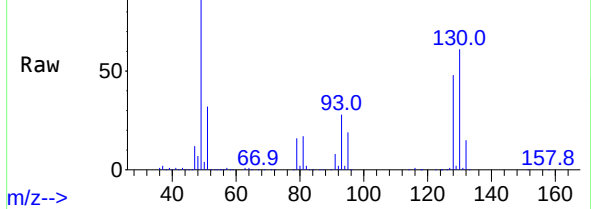


Abundance Scan 804 (5.189 min): VL040354.D\data.ms (-78)



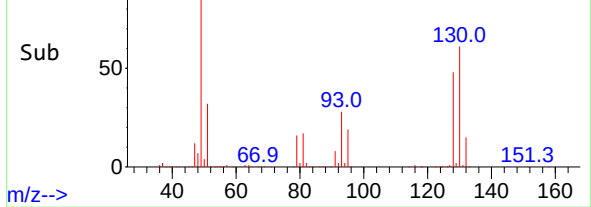
m/z-->

Abundance Scan 800 (5.176 min): VL040414.D\data.ms



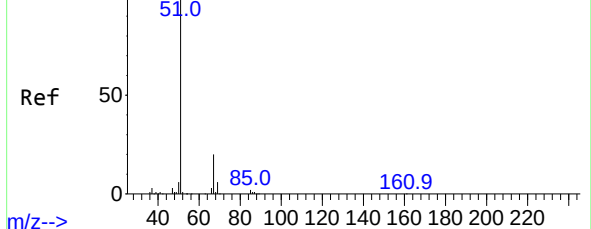
m/z-->

Abundance Scan 800 (5.176 min): VL040414.D\data.ms (-64)



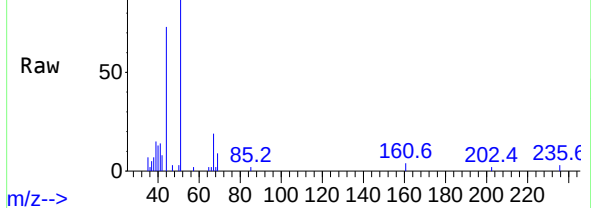
m/z-->

Abundance Scan 18 (2.661 min): VL040354.D\data.ms (-7)



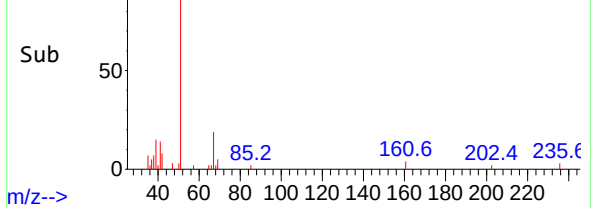
m/z-->

Abundance Scan 16 (2.655 min): VL040414.D\data.ms



m/z-->

Abundance Scan 16 (2.655 min): VL040414.D\data.ms (-1)



m/z-->

#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.176 min Scan# 80

Delta R.T. -0.013 min

Lab File: VL040414.D

Acq: 12 May 2023 9:01

Instrument :

MSVOA_L

ClientSampleId :

SV-03-20230511DL

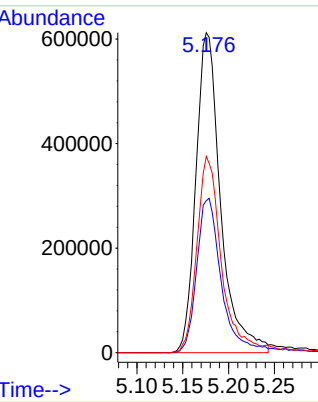
Tgt Ion: 49 Resp: 1148766

Ion Ratio Lower Upper

49 100

128 49.2 23.7 71.1

130 63.0 29.9 89.8



#3

Chlorodifluoromethane

Concen: 0.118 ppbv

RT: 2.655 min Scan# 16

Delta R.T. -0.006 min

Lab File: VL040414.D

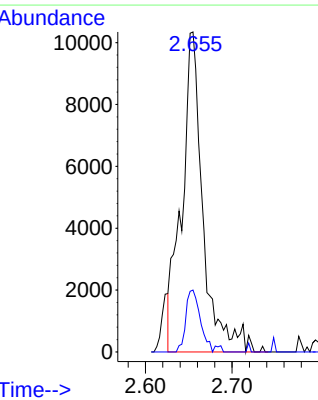
Acq: 12 May 2023 9:01

Tgt Ion: 51 Resp: 17707

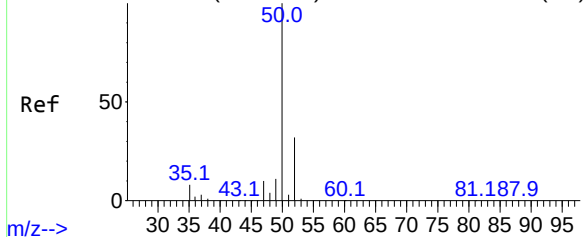
Ion Ratio Lower Upper

51 100

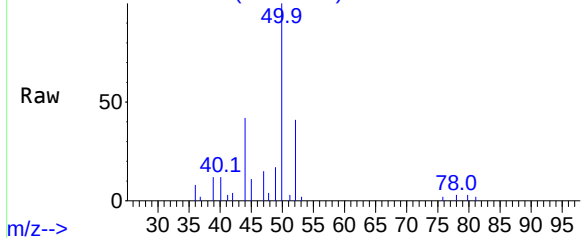
67 13.7 15.5 23.3



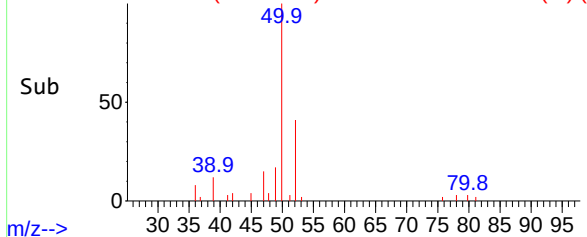
Abundance Scan 61 (2.800 min): VL040354.D\data.ms (-52)



Abundance Scan 59 (2.793 min): VL040414.D\data.ms



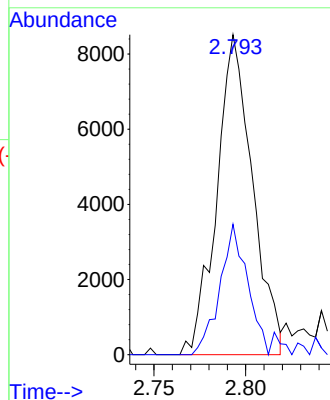
Abundance Scan 59 (2.793 min): VL040414.D\data.ms (-1) (-)



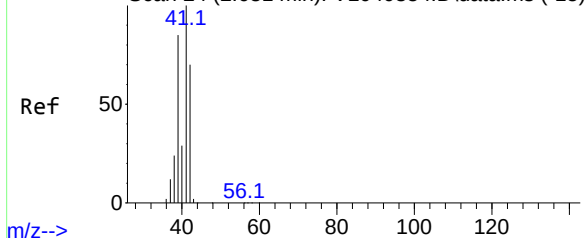
#4
Chloromethane
Concen: 0.122 ppbv
RT: 2.793 min Scan# 51
Delta R.T. -0.007 min
Lab File: VL040414.D
Acq: 12 May 2023 9:01

Instrument :
MSVOA_L
ClientSampleId :
SV-03-20230511DL

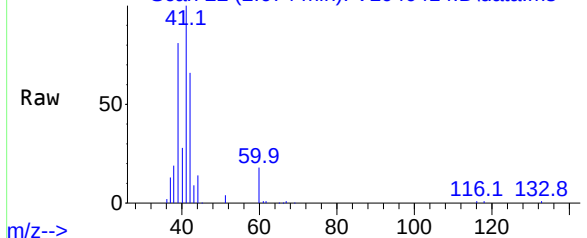
Tgt Ion: 50 Resp: 11574
Ion Ratio Lower Upper
50 100
52 40.7 25.3 37.9#



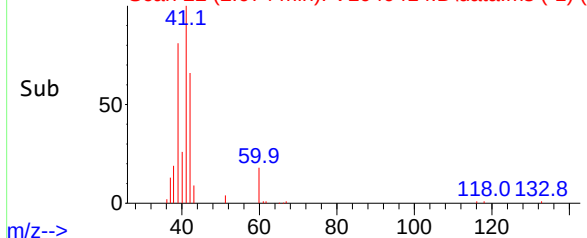
Abundance Scan 24 (2.681 min): VL040354.D\data.ms (-15)



Abundance Scan 22 (2.674 min): VL040414.D\data.ms

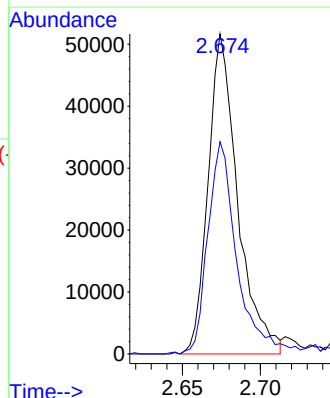


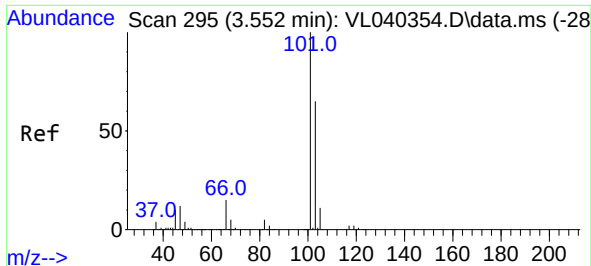
Abundance Scan 22 (2.674 min): VL040414.D\data.ms (-1) (-)



#9
Propene
Concen: 1.148 ppbv
RT: 2.674 min Scan# 22
Delta R.T. -0.007 min
Lab File: VL040414.D
Acq: 12 May 2023 9:01

Tgt Ion: 41 Resp: 68068
Ion Ratio Lower Upper
41 100
42 68.2 56.5 84.7

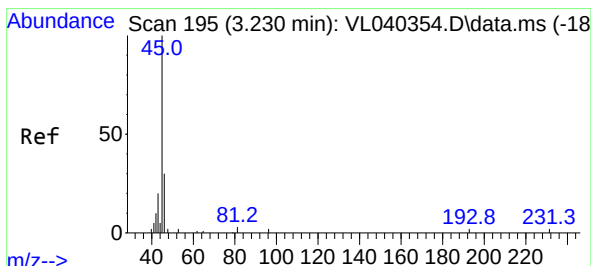
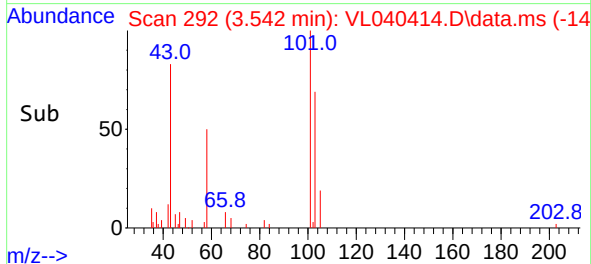
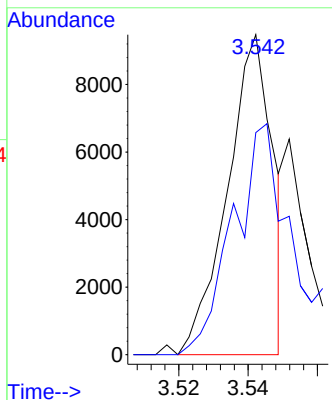
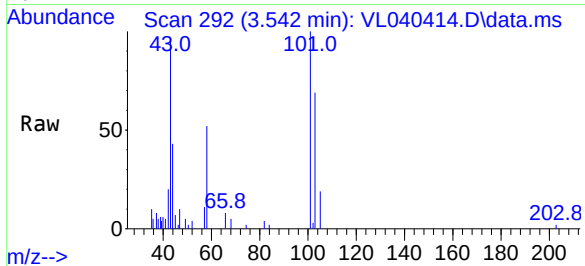




#11
 Trichlorofluoromethane
 Concen: 0.041 ppbv
 RT: 3.542 min Scan# 295
 Delta R.T. -0.010 min
 Lab File: VL040414.D
 Acq: 12 May 2023 9:01

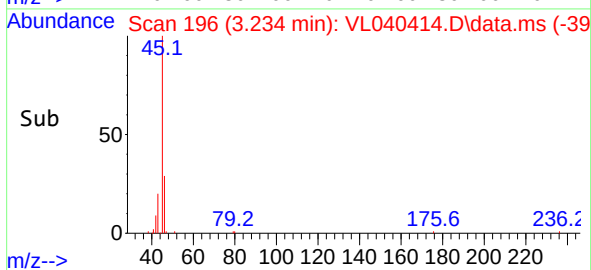
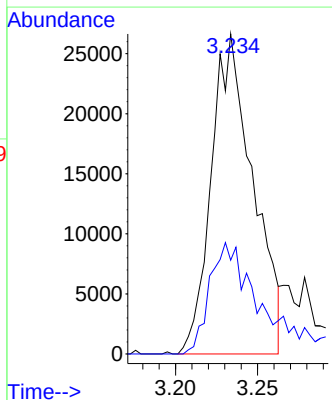
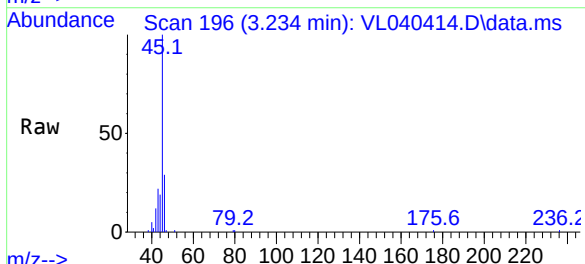
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-03-20230511DL

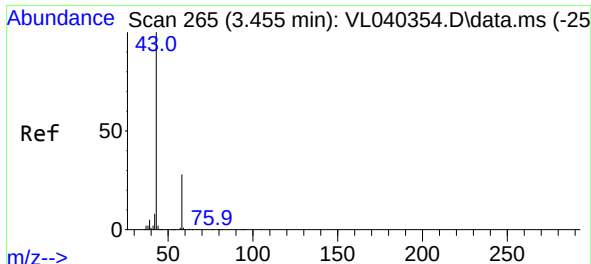
Tgt Ion:101 Resp: 8593
 Ion Ratio Lower Upper
 101 100
 103 69.4 52.2 78.4



#13
 Ethanol
 Concen: 9.489 ppbv
 RT: 3.234 min Scan# 196
 Delta R.T. 0.004 min
 Lab File: VL040414.D
 Acq: 12 May 2023 9:01

Tgt Ion: 45 Resp: 46977
 Ion Ratio Lower Upper
 45 100
 46 43.9 15.3 61.3

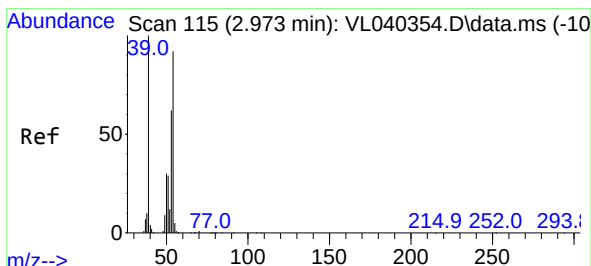
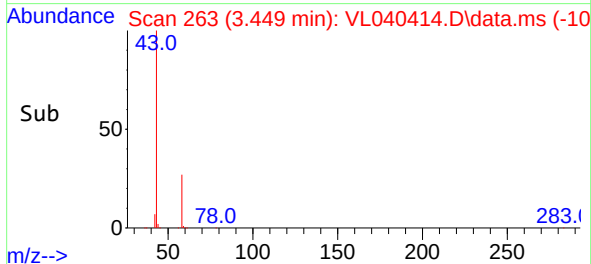
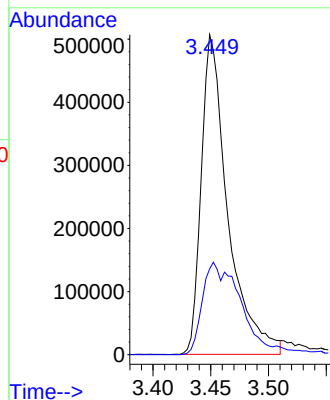
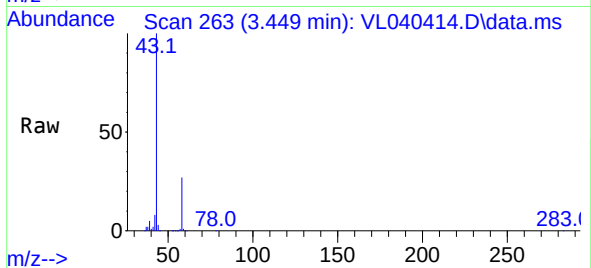




#15
Acetone
Concen: 4.984 ppbv
RT: 3.449 min Scan# 20
Delta R.T. -0.006 min
Lab File: VL040414.D
Acq: 12 May 2023 9:01

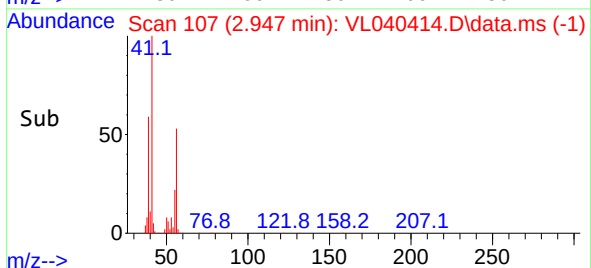
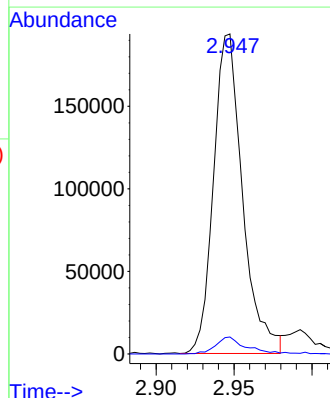
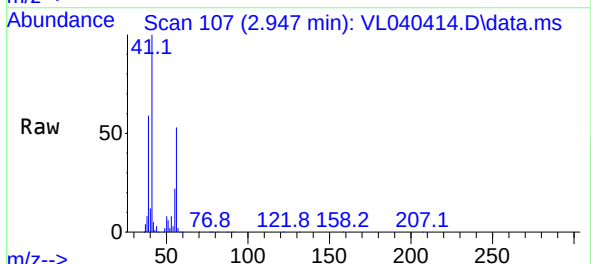
Instrument :
MSVOA_L
ClientSampleId :
SV-03-20230511DL

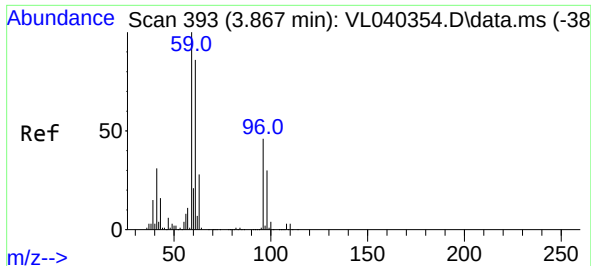
Tgt Ion: 43 Resp: 810936
Ion Ratio Lower Upper
43 100
58 44.4 22.2 33.2#



#16
1,3-Butadiene
Concen: 3.731 ppbv
RT: 2.947 min Scan# 107
Delta R.T. -0.026 min
Lab File: VL040414.D
Acq: 12 May 2023 9:01

Tgt Ion: 39 Resp: 251241
Ion Ratio Lower Upper
39 100
54 5.7 68.8 103.2#

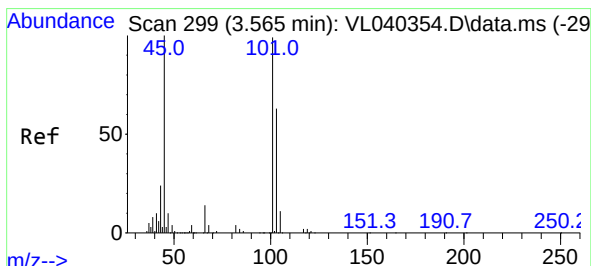
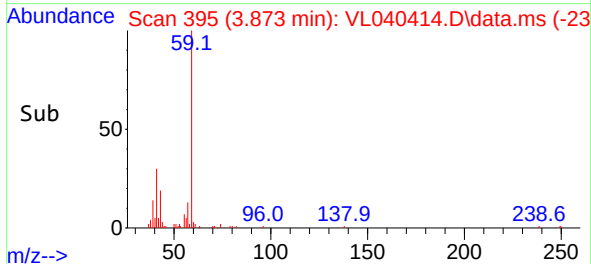
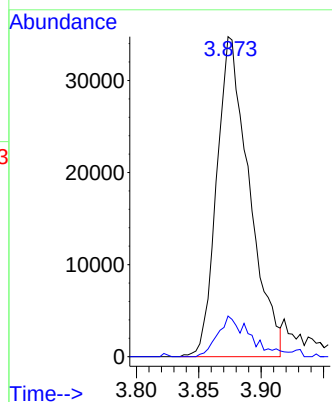
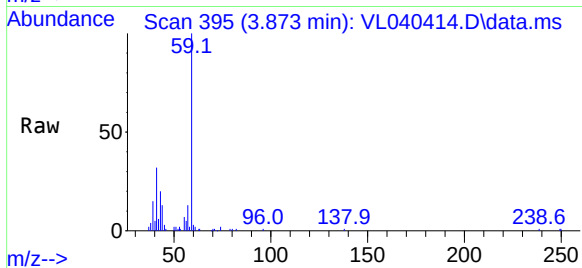




#17
tert-Butyl alcohol
Concen: 0.423 ppbv
RT: 3.873 min Scan# 395
Delta R.T. 0.006 min
Lab File: VL040414.D
Acq: 12 May 2023 9:01

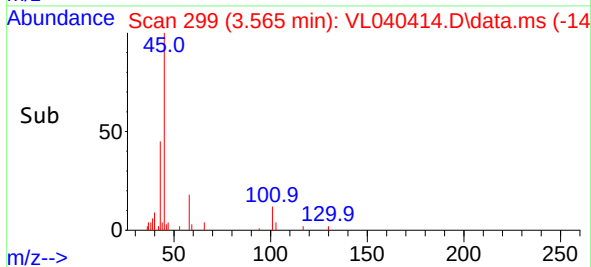
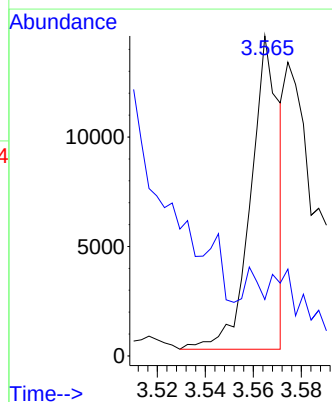
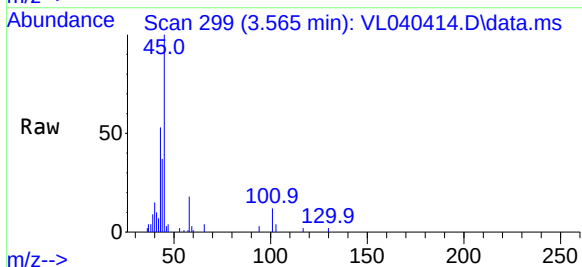
Instrument :
MSVOA_L
ClientSampleId :
SV-03-20230511DL

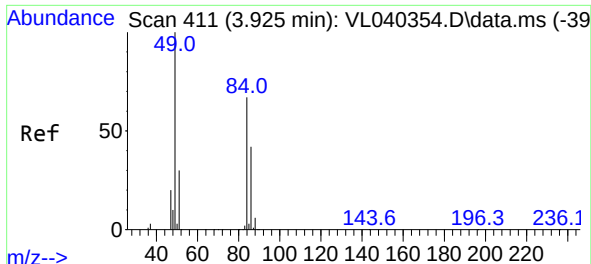
Tgt Ion: 59 Resp: 63213
Ion Ratio Lower Upper
59 100
57 13.4 8.5 12.7#



#19
Isopropyl Alcohol
Concen: 0.158 ppbv
RT: 3.565 min Scan# 299
Delta R.T. -0.000 min
Lab File: VL040414.D
Acq: 12 May 2023 9:01

Tgt Ion: 45 Resp: 11722
Ion Ratio Lower Upper
45 100
58 0.0 2.6 4.0#





#20

Methylene Chloride

Concen: 0.849 ppbv

RT: 3.915 min Scan# 408

Delta R.T. -0.010 min

Lab File: VL040414.D

Acq: 12 May 2023 9:01

Instrument :

MSVOA_L

ClientSampleId :

SV-03-20230511DL

Tgt Ion: 84 Resp: 55156

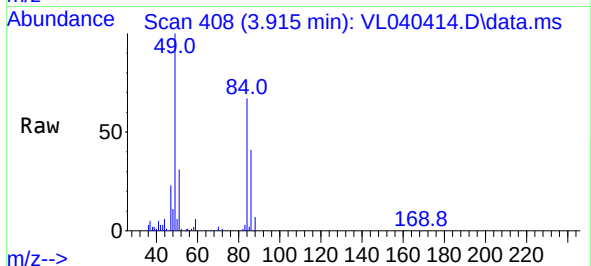
Ion Ratio Lower Upper

84 100

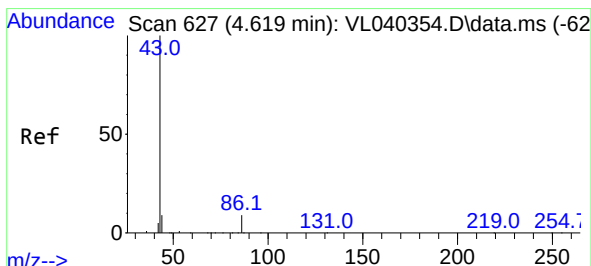
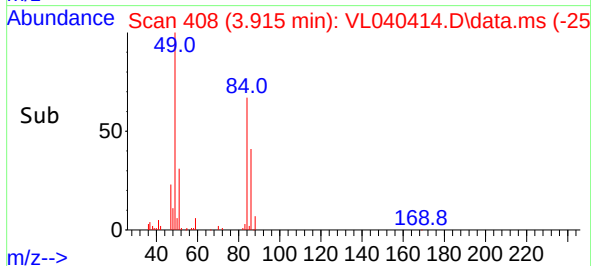
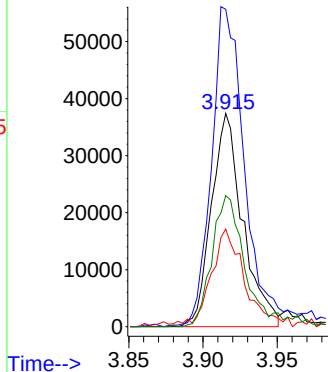
49 148.1 120.1 180.1

51 43.3 36.3 54.5

86 61.5 50.8 76.2



Abundance



#23

Vinyl Acetate

Concen: 0.153 ppbv

RT: 4.703 min Scan# 653

Delta R.T. 0.084 min

Lab File: VL040414.D

Acq: 12 May 2023 9:01

Tgt Ion: 43 Resp: 6332

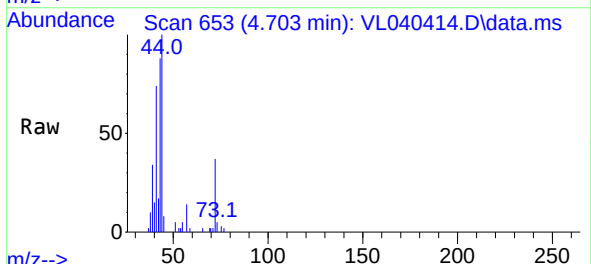
Ion Ratio Lower Upper

43 100

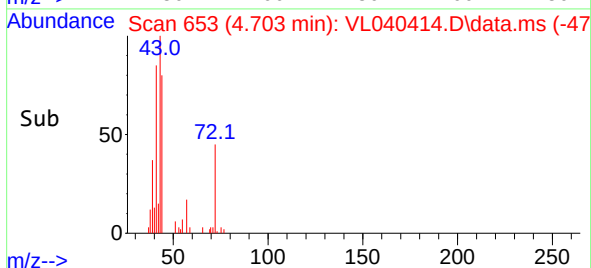
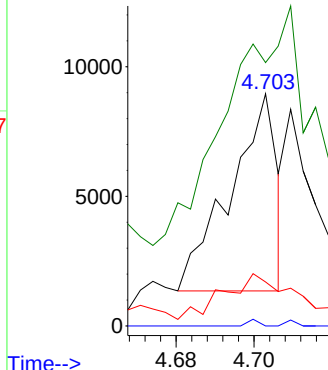
86 0.0 6.0 9.0#

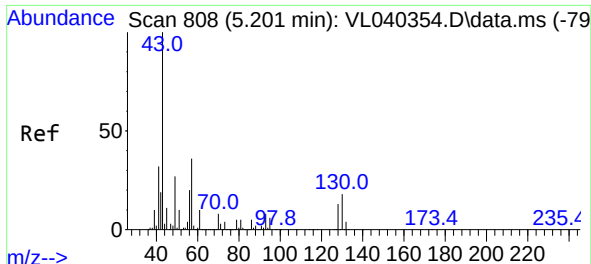
42 19.0 6.4 9.6#

44 71.2 5.6 8.4#



Abundance





#25

Ethyl Acetate

Concen: 0.156 ppbv

RT: 5.198 min Scan# 807

Delta R.T. -0.003 min

Lab File: VL040414.D

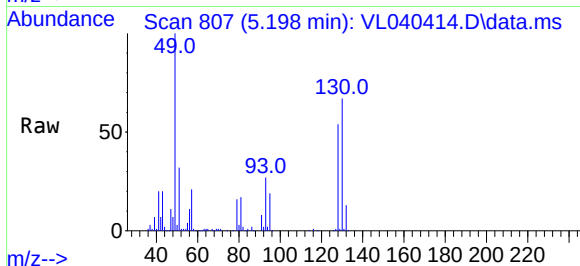
Acq: 12 May 2023 9:01

Instrument :

MSVOA_L

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Tgt Ion: 43 Resp: 42746

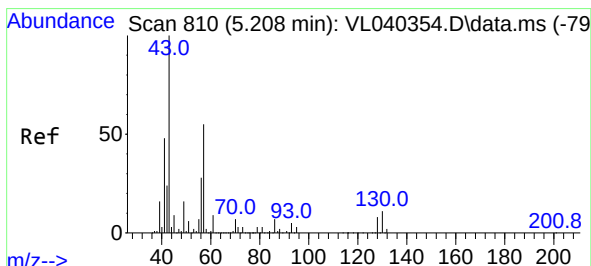
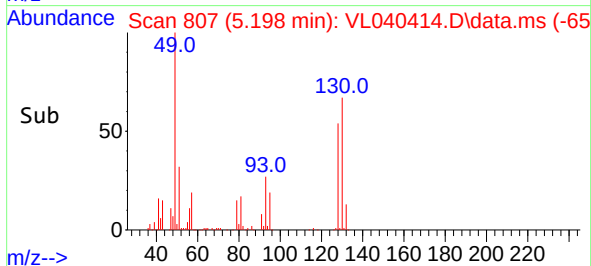
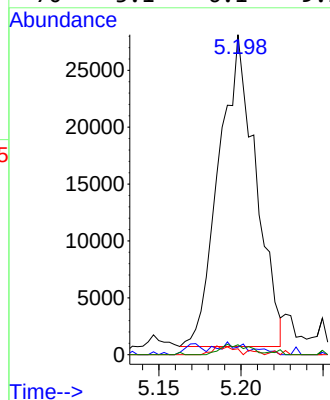
Ion Ratio Lower Upper

43 100

45 5.5 8.5 12.7#

61 2.3 8.5 12.7#

70 3.1 6.1 9.1#



#26

Hexane

Concen: 0.490 ppbv

RT: 5.201 min Scan# 808

Delta R.T. -0.007 min

Lab File: VL040414.D

Acq: 12 May 2023 9:01

Tgt Ion: 57 Resp: 56531

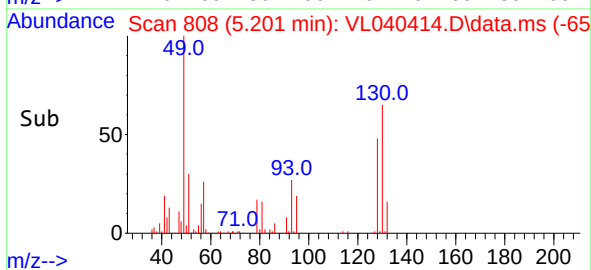
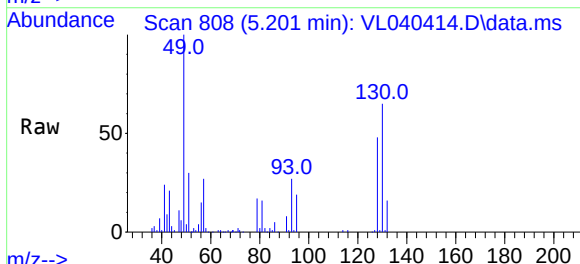
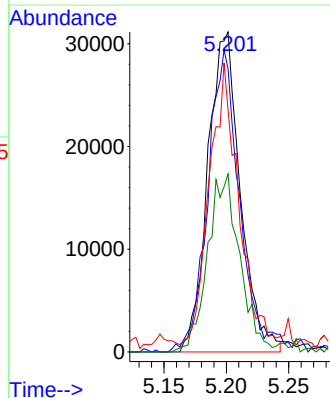
Ion Ratio Lower Upper

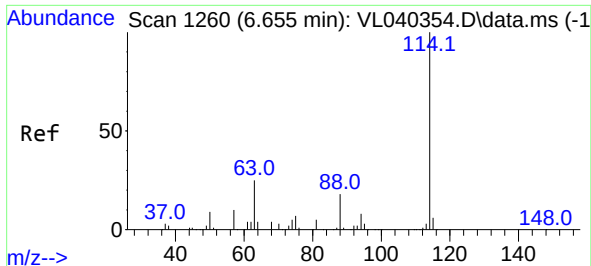
57 100

41 94.1 74.8 112.2

43 85.9 192.7 289.1#

56 55.3 42.6 64.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.639 min Scan# 11

Delta R.T. -0.016 min

Lab File: VL040414.D

Acq: 12 May 2023 9:01

Instrument :

MSVOA_L

ClientSampleId :

SV-03-20230511DL

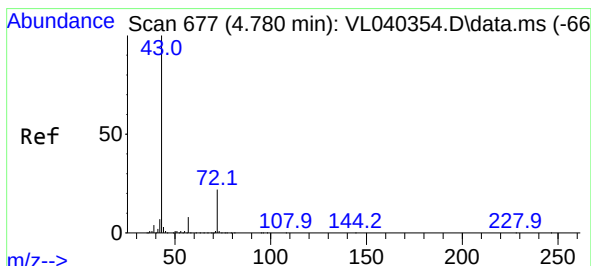
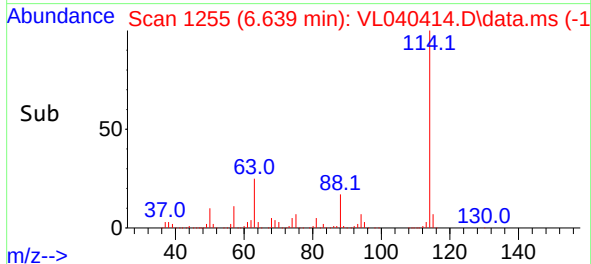
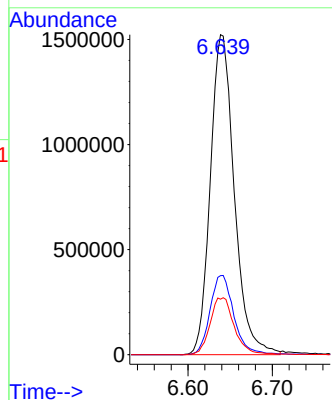
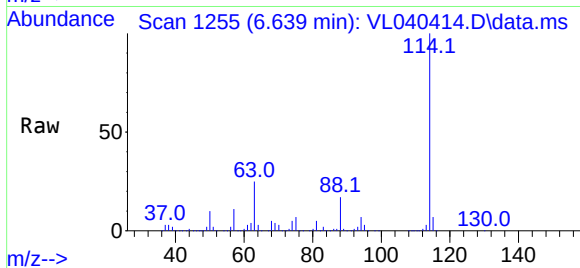
Tgt Ion:114 Resp: 3008386

Ion Ratio Lower Upper

114 100

63 24.9 21.4 32.0

88 18.2 14.6 22.0



#34

2-Butanone

Concen: 3.628 ppbv

RT: 4.774 min Scan# 675

Delta R.T. -0.006 min

Lab File: VL040414.D

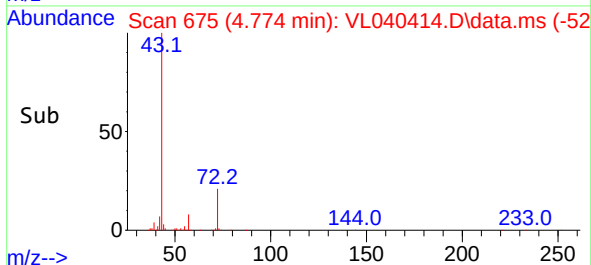
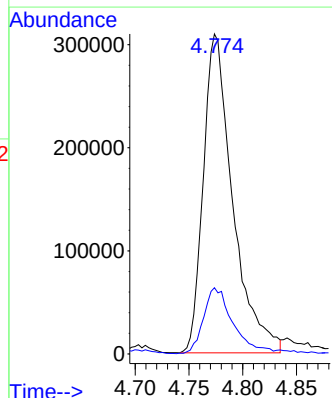
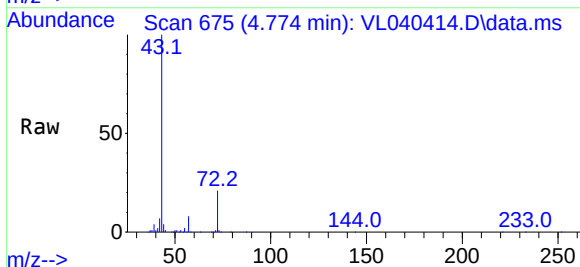
Acq: 12 May 2023 9:01

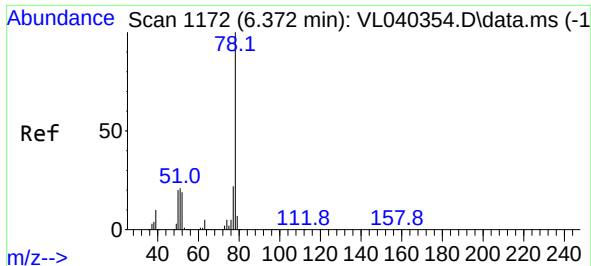
Tgt Ion: 43 Resp: 588494

Ion Ratio Lower Upper

43 100

72 21.9 18.4 27.6

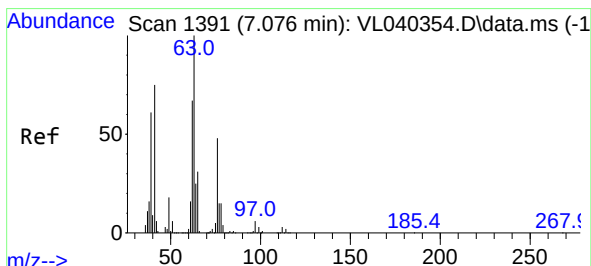
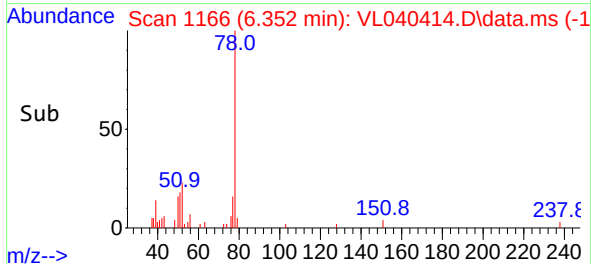
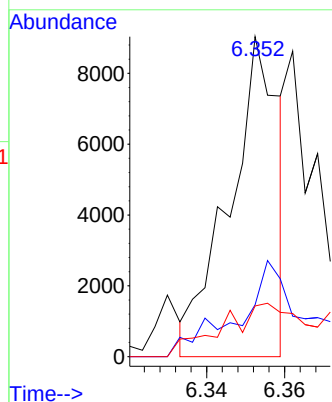
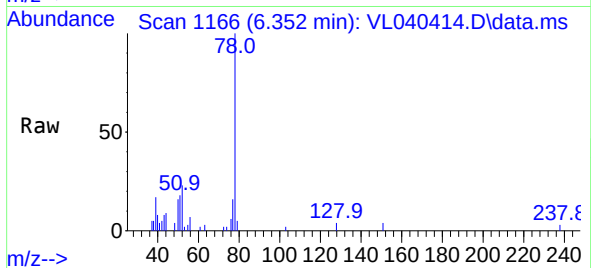




#36
Benzene
Concen: 0.032 ppbv
RT: 6.352 min Scan# 1172
Delta R.T. -0.020 min
Lab File: VL040414.D
Acq: 12 May 2023 9:01

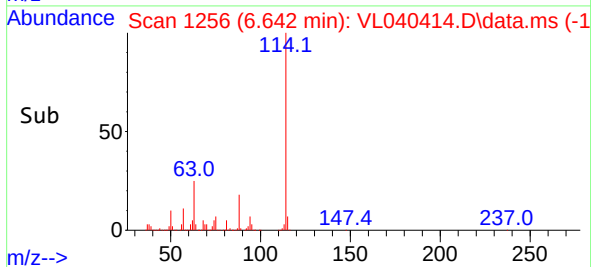
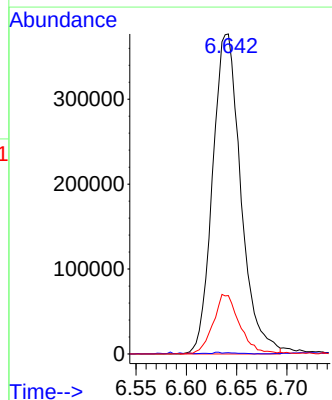
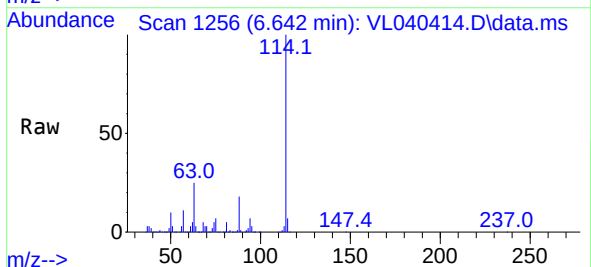
Instrument :
MSVOA_L
ClientSampleId :
SV-03-20230511DL

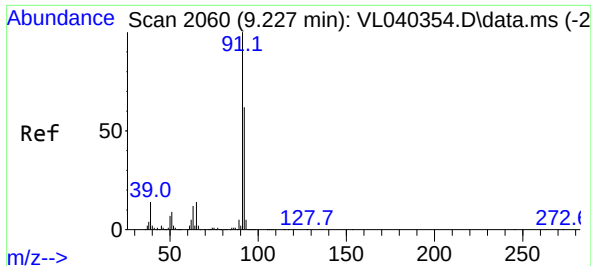
Tgt Ion: 78 Resp: 7908
Ion Ratio Lower Upper
78 100
77 11.4 17.8 26.8#
50 11.6 15.6 23.4#



#39
1,2-Dichloropropane
Concen: 7.611 ppbv
RT: 6.642 min Scan# 1256
Delta R.T. -0.434 min
Lab File: VL040414.D
Acq: 12 May 2023 9:01

Tgt Ion: 63 Resp: 735059
Ion Ratio Lower Upper
63 100
41 0.3 59.6 89.4#
62 18.2 53.9 80.9#

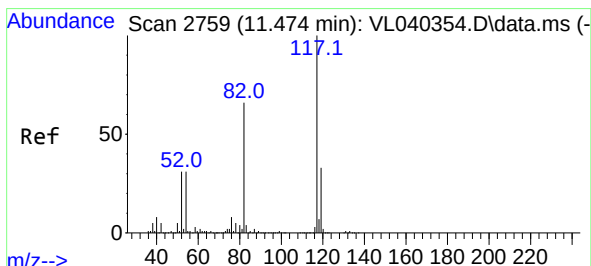
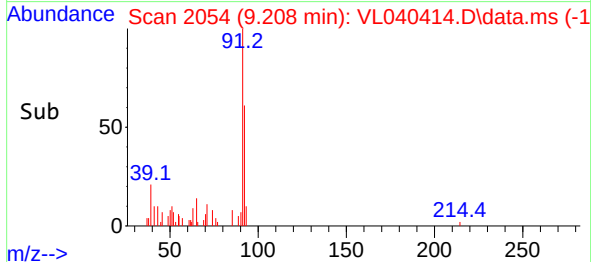
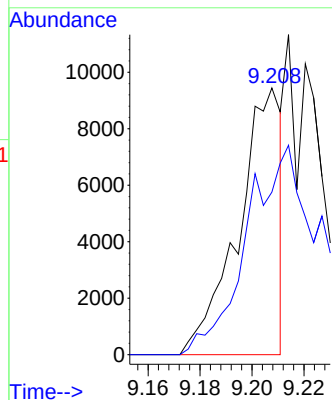
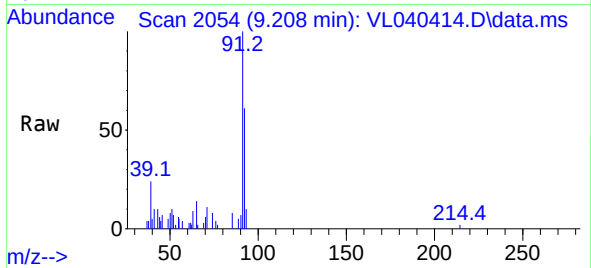




#53
Toluene
Concen: 0.042 ppbv
RT: 9.208 min Scan# 2060
Delta R.T. -0.019 min
Lab File: VL040414.D
Acq: 12 May 2023 9:01

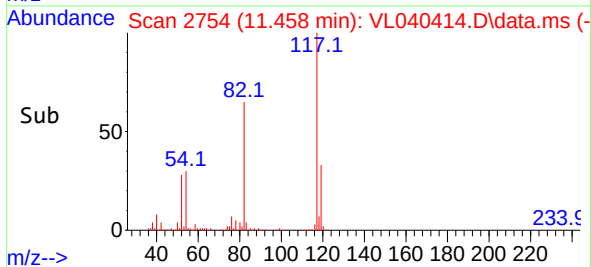
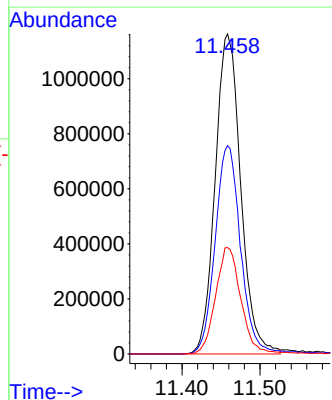
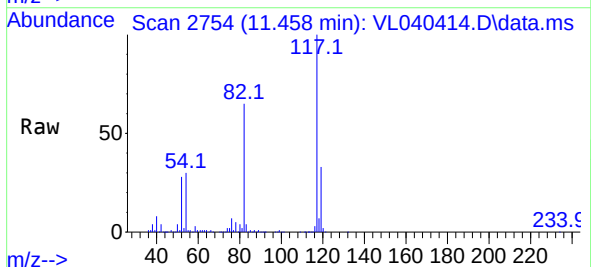
Instrument :
MSVOA_L
ClientSampleId :
SV-03-20230511DL

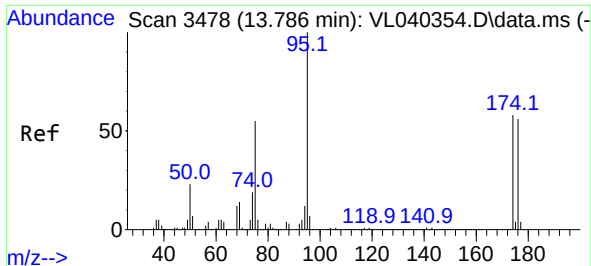
Tgt Ion: 91 Resp: 10843
Ion Ratio Lower Upper
91 100
92 0.0 48.9 73.3#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.458 min Scan# 2754
Delta R.T. -0.016 min
Lab File: VL040414.D
Acq: 12 May 2023 9:01

Tgt Ion: 117 Resp: 2650417
Ion Ratio Lower Upper
117 100
82 65.6 52.5 78.7
119 33.2 24.3 36.5





#68

1-Bromo-4-Fluorobenzene

Concen: 9.423 ppbv

RT: 13.773 min Scan# 34

Delta R.T. -0.013 min

Lab File: VL040414.D

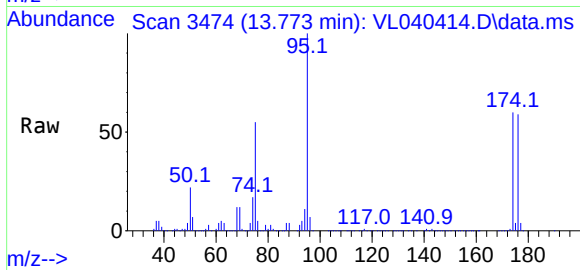
Acq: 12 May 2023 9:01

Instrument :

MSVOA_L

ClientSampleId :

SV-03-20230511DL



Tgt Ion: 95 Resp: 2065215

Ion Ratio Lower Upper

95 100

174 61.9 47.2 70.8

175 4.4 3.5 5.3

