

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL071023\
 Data File : VL040518.D
 Acq On : 10 Jul 2023 22:36
 Operator : SY/MD
 Sample : 03535-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

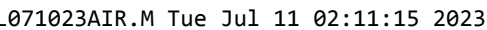
Quant Time: Jul 11 02:11:11 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Jul 10 16:32:00 2023
 Response via : Initial Calibration

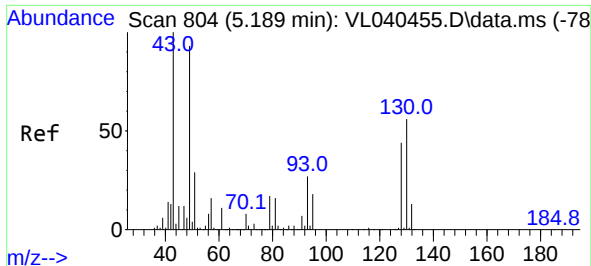
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.195	49	956797	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	2412590	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	2009192	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.780	95	1549011	9.741	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.739	85	85418	0.446	ppbv	90
3) Chlorodifluoromethane	2.687	51	50003	0.330	ppbv	96
4) Chloromethane	2.822	50	24438	0.407	ppbv	89
9) Propene	2.713	41	35797	0.689	ppbv #	78
11) Trichlorofluoromethane	3.568	101	38703	0.251	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.073	101	8000	0.074	ppbv	96
13) Ethanol	3.256	45	16983	1.503	ppbv #	36
15) Acetone	3.481	43	258245	2.345	ppbv	99
16) 1,3-Butadiene	2.973	39	3163	0.057	ppbv #	8
19) Isopropyl Alcohol	3.594	45	206331	3.263	ppbv #	93
20) Methylene Chloride	3.941	84	49204	1.050	ppbv #	87
23) Vinyl Acetate	4.629	43	6979	0.067	ppbv #	86
25) Ethyl Acetate	5.218	43	26044	0.124	ppbv #	88
26) Hexane	5.214	57	16861	0.173	ppbv #	44
34) 2-Butanone	4.800	43	10465	0.088	ppbv #	51
36) Benzene	6.375	78	25599	0.132	ppbv	95
39) 1,2-Dichloropropane	6.658	63	604816	8.093	ppbv #	27
44) 2,2,4-Trimethylpentane	7.330	57	30750	0.098	ppbv #	71
53) Toluene	9.224	91	80795	0.383	ppbv	99

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

Quant Time: Jul 11 02:11:11 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Mon Jul 10 16:32:00 2023
Response via : Initial Calibration

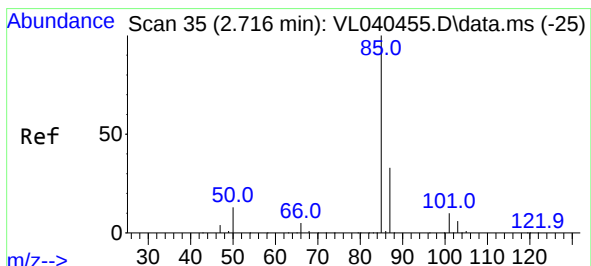
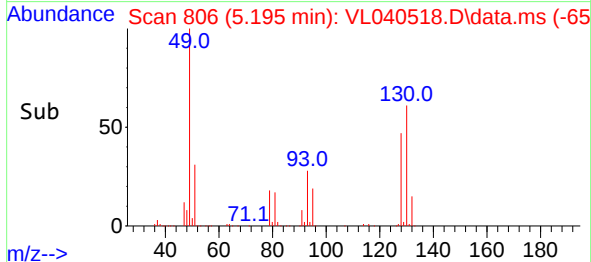
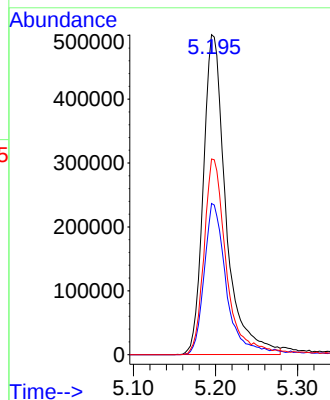
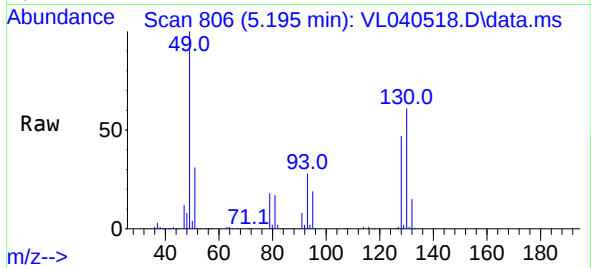




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.195 min Scan# 80
Delta R.T. -0.007 min
Lab File: VL040518.D
Acq: 10 Jul 2023 22:36

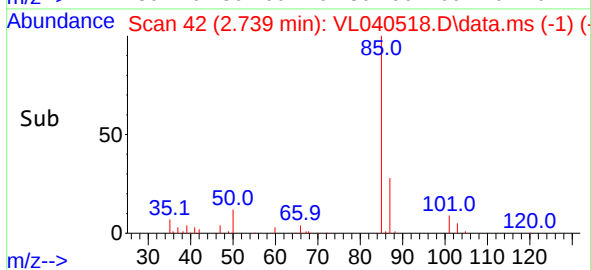
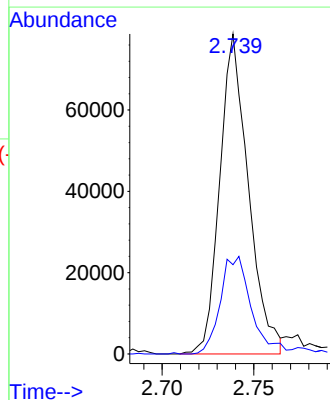
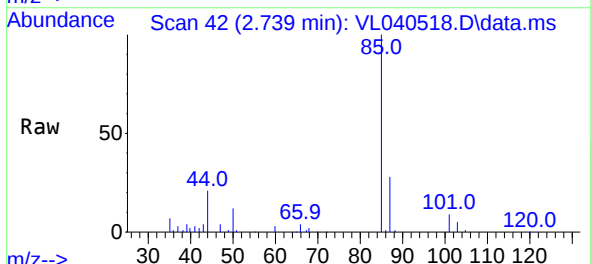
Instrument :
MSVOA_L
ClientSampleId :
IA2

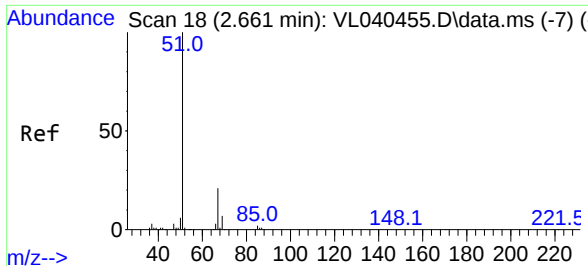
Tgt Ion: 49 Resp: 956797
Ion Ratio Lower Upper
49 100
128 48.1 25.1 75.4
130 61.8 31.6 94.7



#2
Dichlorodifluoromethane
Concen: 0.446 ppbv
RT: 2.739 min Scan# 42
Delta R.T. 0.000 min
Lab File: VL040518.D
Acq: 10 Jul 2023 22:36

Tgt Ion: 85 Resp: 85418
Ion Ratio Lower Upper
85 100
87 27.9 26.8 40.2

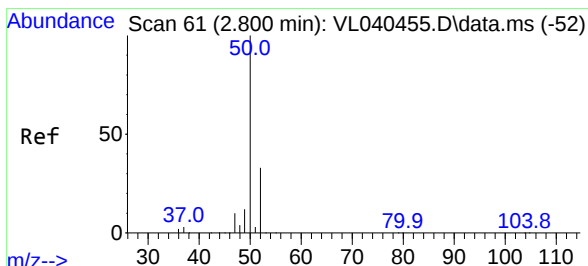
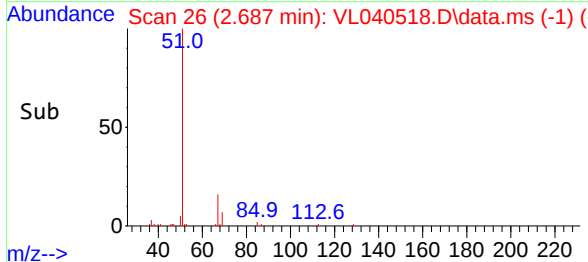
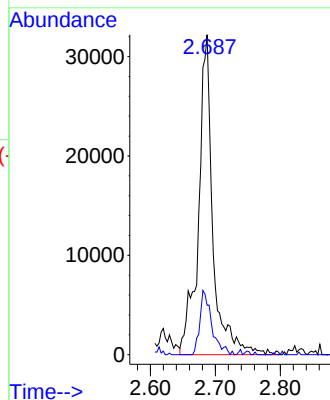
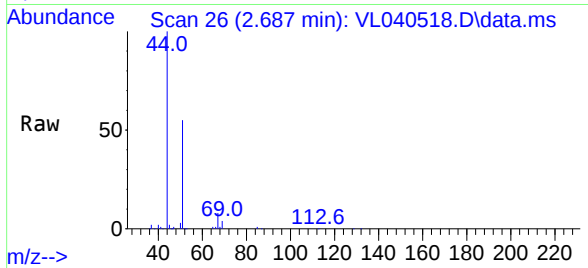




#3
Chlorodifluoromethane
Concen: 0.330 ppbv
RT: 2.687 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL040518.D
Acq: 10 Jul 2023 22:36

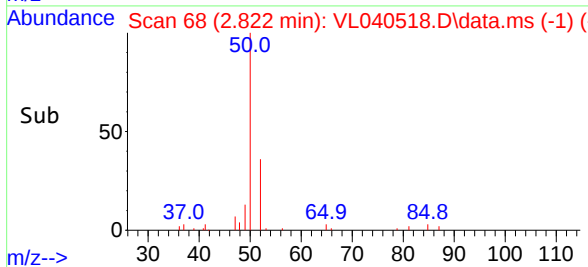
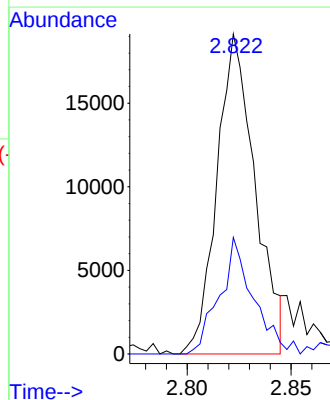
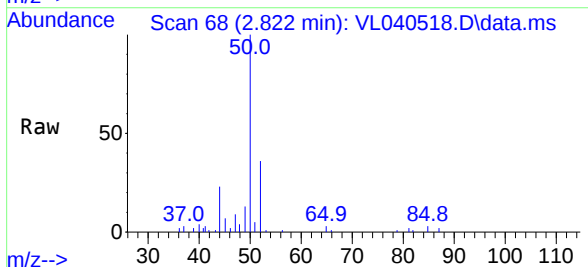
Instrument :
MSVOA_L
ClientSampleId :
IA2

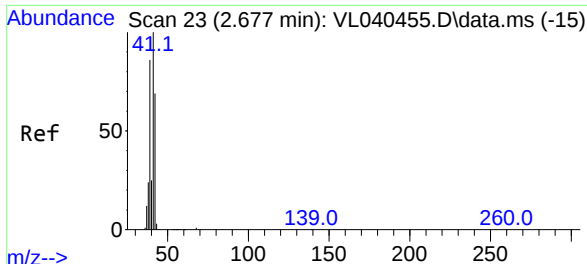
Tgt Ion: 51 Resp: 50003
Ion Ratio Lower Upper
51 100
67 16.6 14.6 21.8



#4
Chloromethane
Concen: 0.407 ppbv
RT: 2.822 min Scan# 68
Delta R.T. 0.000 min
Lab File: VL040518.D
Acq: 10 Jul 2023 22:36

Tgt Ion: 50 Resp: 24438
Ion Ratio Lower Upper
50 100
52 36.4 24.4 36.6





#9

Propene

Concen: 0.689 ppbv

RT: 2.713 min Scan# 34

Delta R.T. 0.010 min

Lab File: VL040518.D

Acq: 10 Jul 2023 22:36

Instrument :

MSVOA_L

ClientSampleId :

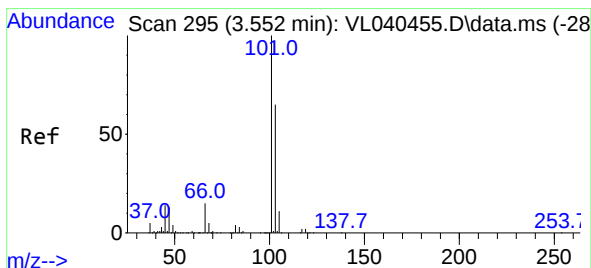
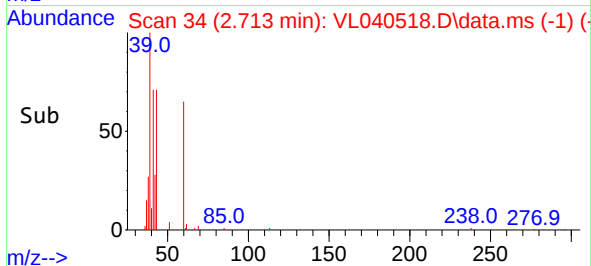
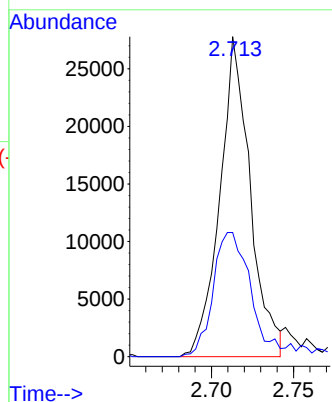
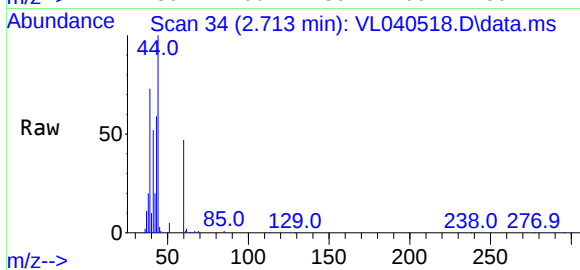
IA2

Tgt Ion: 41 Resp: 35797

Ion Ratio Lower Upper

41 100

42 51.1 55.0 82.6#



#11

Trichlorofluoromethane

Concen: 0.251 ppbv

RT: 3.568 min Scan# 300

Delta R.T. -0.003 min

Lab File: VL040518.D

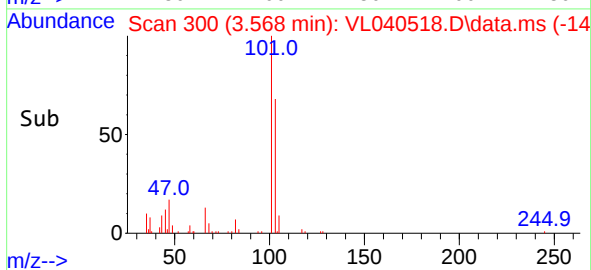
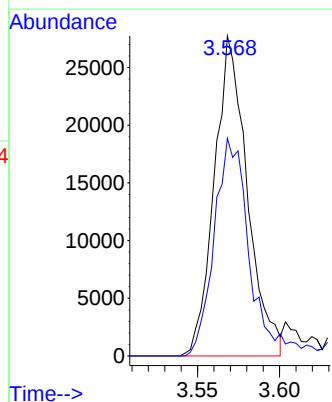
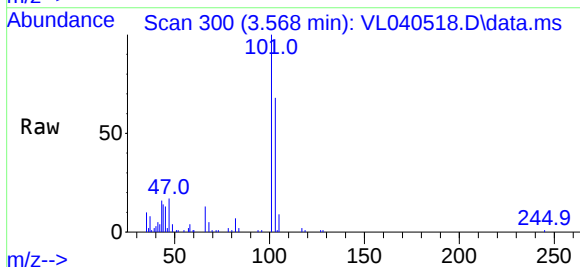
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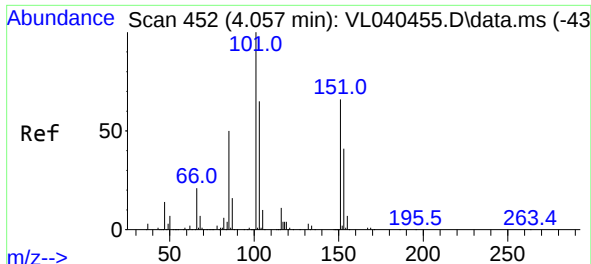
Tgt Ion: 101 Resp: 38703

Ion Ratio Lower Upper

101 100

103 68.0 53.4 80.0

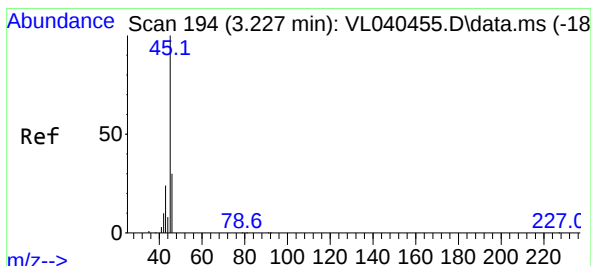
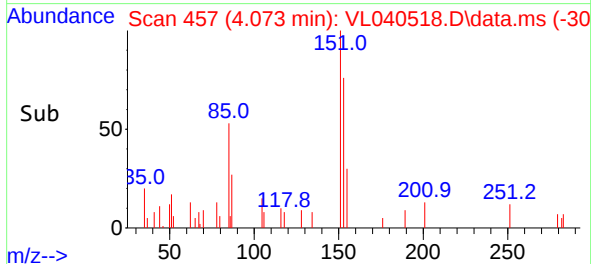
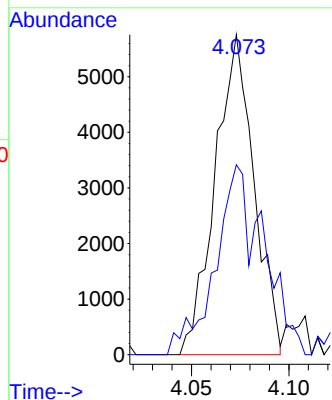
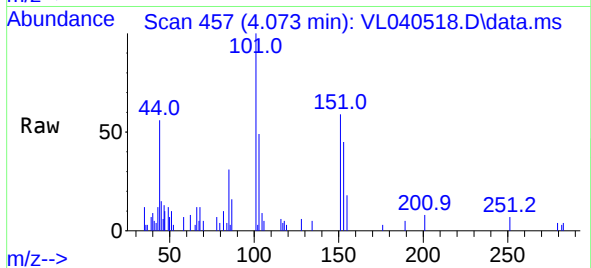




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.074 ppbv
RT: 4.073 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL040518.D
Acq: 10 Jul 2023 22:36

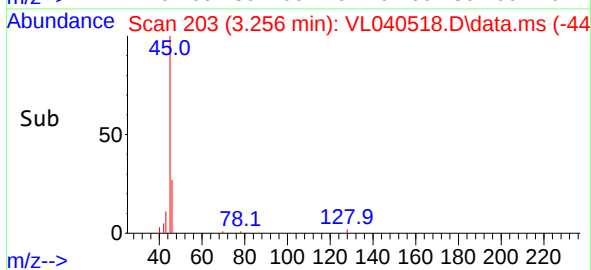
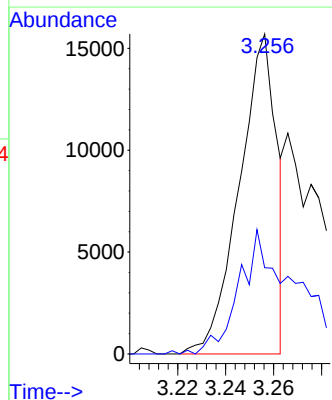
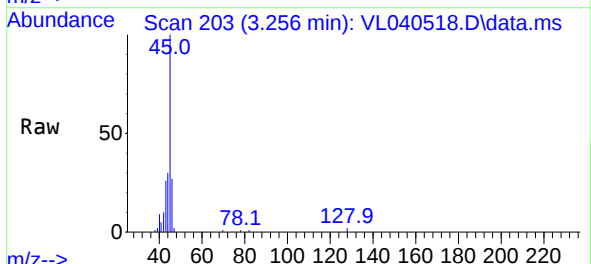
Instrument :
MSVOA_L
ClientSampleId :
IA2

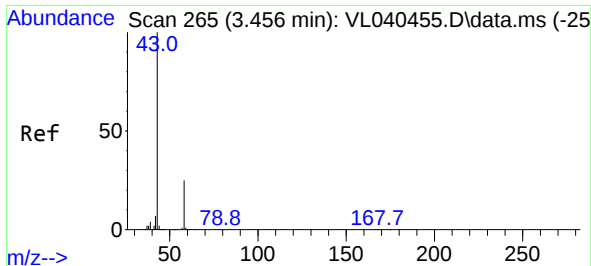
Tgt Ion:101 Resp: 8000
Ion Ratio Lower Upper
101 100
151 76.0 58.2 87.4



#13
Ethanol
Concen: 1.503 ppbv
RT: 3.256 min Scan# 203
Delta R.T. 0.010 min
Lab File: VL040518.D
Acq: 10 Jul 2023 22:36

Tgt Ion: 45 Resp: 16983
Ion Ratio Lower Upper
45 100
46 76.7 15.3 61.1#

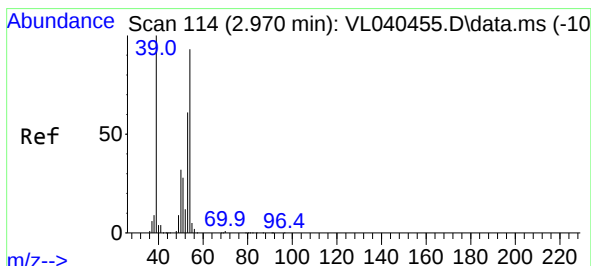
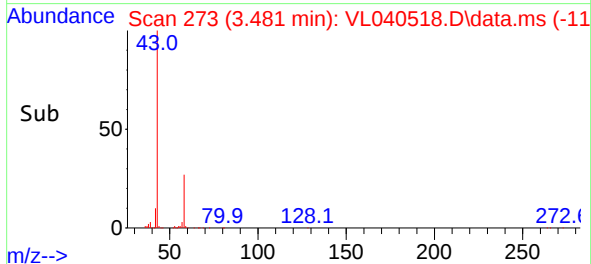
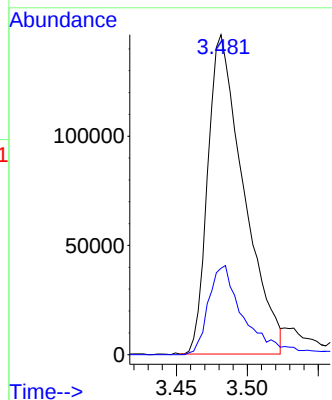
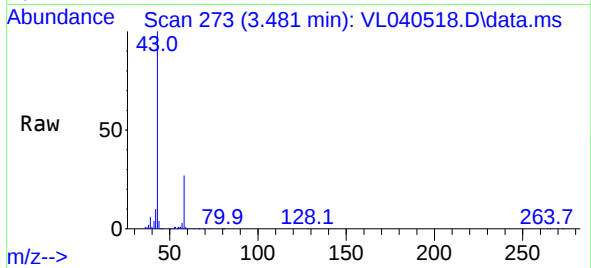




#15
Acetone
Concen: 2.345 ppbv
RT: 3.481 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL040518.D
Acq: 10 Jul 2023 22:36

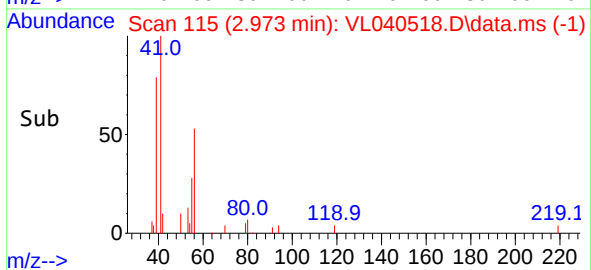
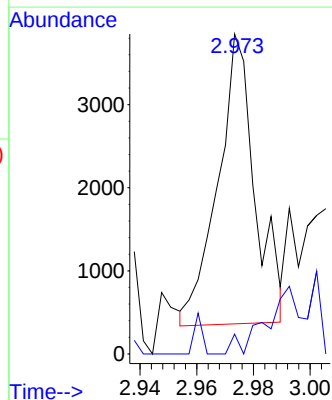
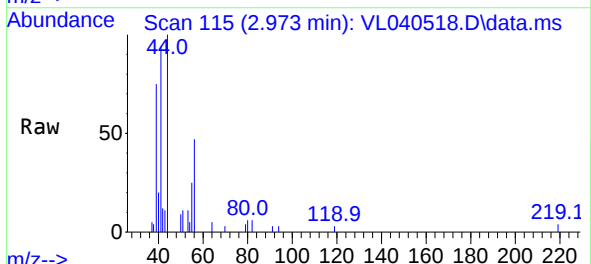
Instrument :
MSVOA_L
ClientSampleId :
IA2

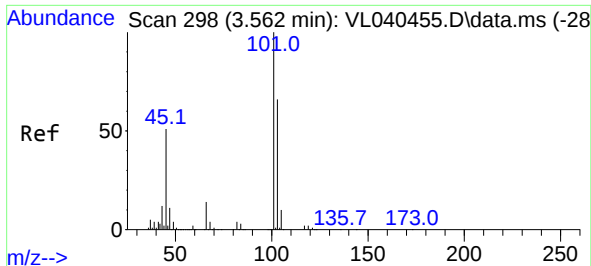
Tgt Ion: 43 Resp: 258245
Ion Ratio Lower Upper
43 100
58 28.3 22.9 34.3



#16
1,3-Butadiene
Concen: 0.057 ppbv
RT: 2.973 min Scan# 115
Delta R.T. -0.019 min
Lab File: VL040518.D
Acq: 10 Jul 2023 22:36

Tgt Ion: 39 Resp: 3163
Ion Ratio Lower Upper
39 100
54 0.0 66.6 100.0#





#19

Isopropyl Alcohol

Concen: 3.263 ppbv

RT: 3.594 min Scan# 308

Delta R.T. 0.013 min

Lab File: VL040518.D

Acq: 10 Jul 2023 22:36

Instrument :

MSVOA_L

ClientSampleId :

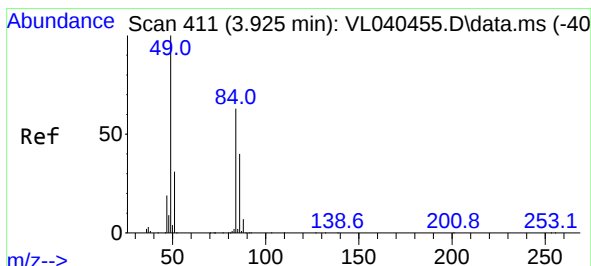
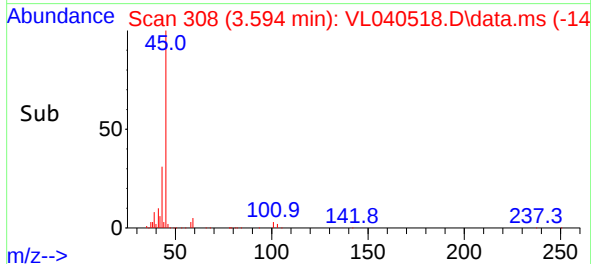
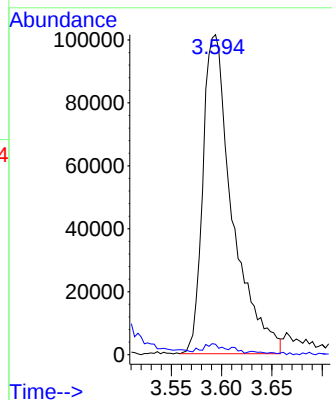
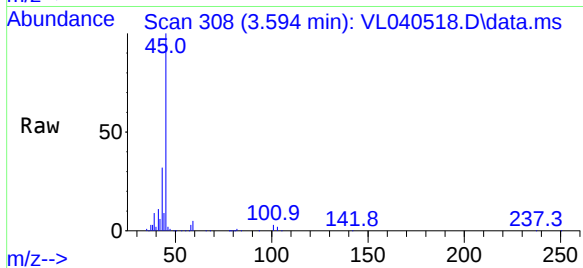
IA2

Tgt Ion: 45 Resp: 206331

Ion Ratio Lower Upper

45 100

58 4.0 1.1 1.7#



#20

Methylene Chloride

Concen: 1.050 ppbv

RT: 3.941 min Scan# 416

Delta R.T. 0.000 min

Lab File: VL040518.D

Acq: 10 Jul 2023 22:36

Tgt Ion: 84 Resp: 49204

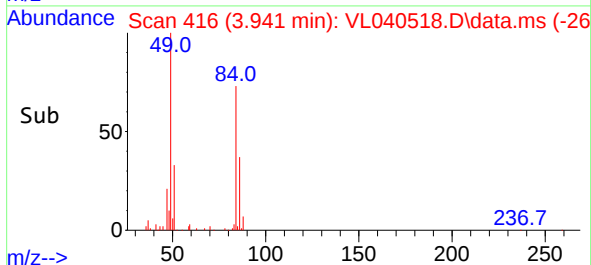
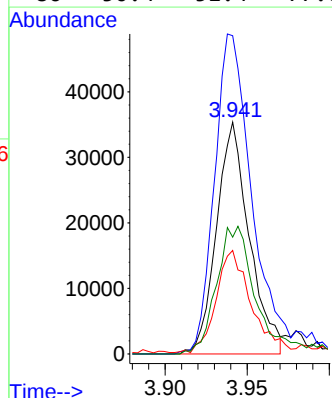
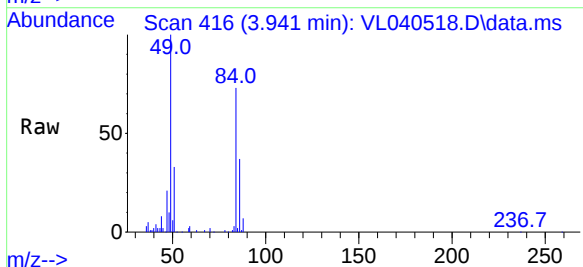
Ion Ratio Lower Upper

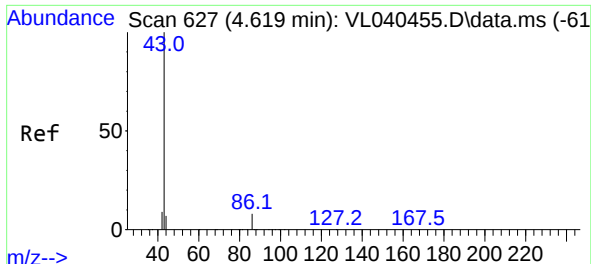
84 100

49 136.3 123.4 185.2

51 43.7 38.3 57.5

86 50.4 51.4 77.0#



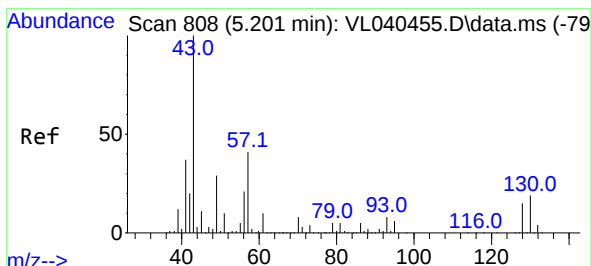
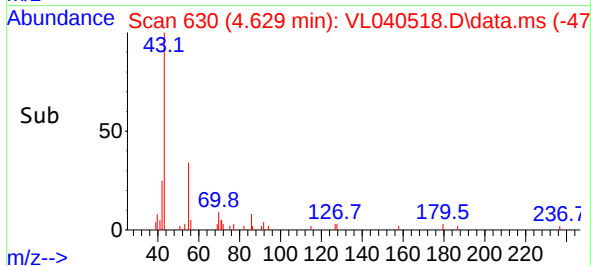
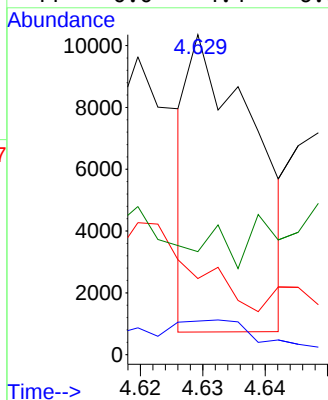
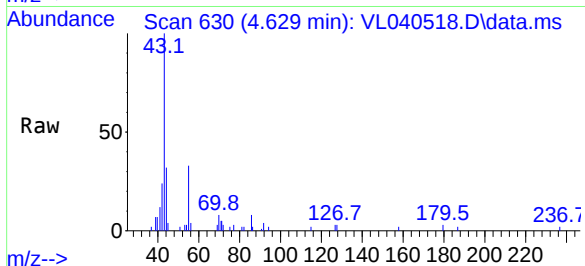


#23
 Vinyl Acetate
 Concen: 0.067 ppbv
 RT: 4.629 min Scan# 61
 Delta R.T. -0.006 min
 Lab File: VL040518.D
 Acq: 10 Jul 2023 22:36

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Tgt Ion: 43 Resp: 6979

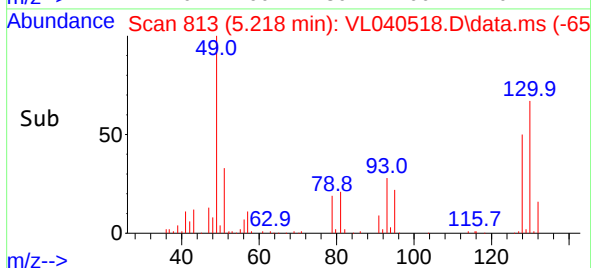
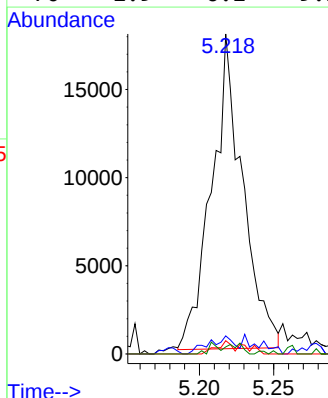
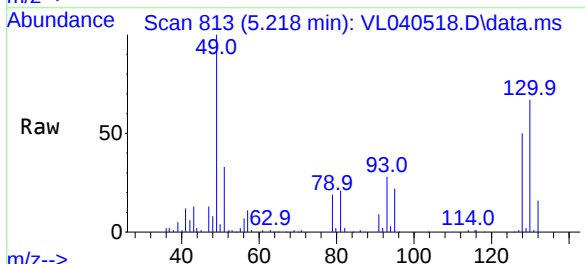
Ion	Ratio	Lower	Upper
43	100		
86	13.1	5.6	8.4#
42	5.9	7.4	11.2#
44	0.0	4.4	6.6#

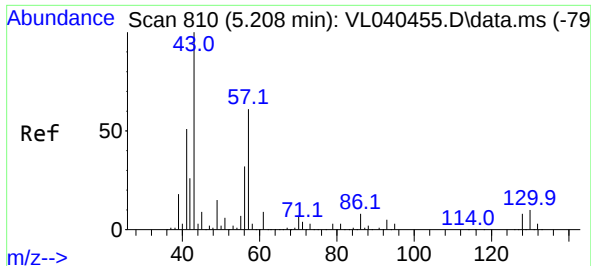


#25
 Ethyl Acetate
 Concen: 0.124 ppbv
 RT: 5.218 min Scan# 813
 Delta R.T. 0.006 min
 Lab File: VL040518.D
 Acq: 10 Jul 2023 22:36

Tgt Ion: 43 Resp: 26044

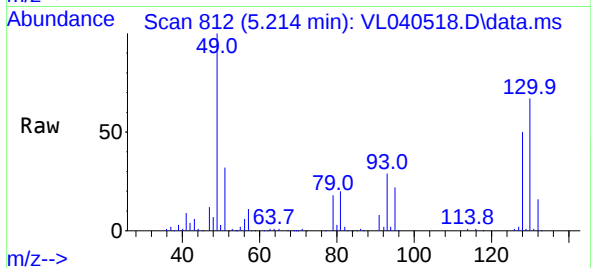
Ion	Ratio	Lower	Upper
43	100		
45	8.6	8.2	12.4
61	3.4	8.3	12.5#
70	2.9	6.2	9.2#





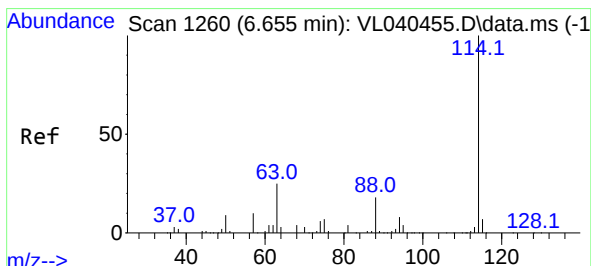
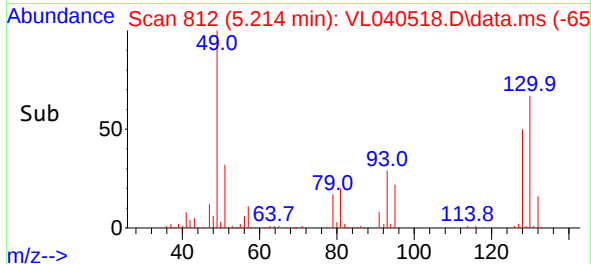
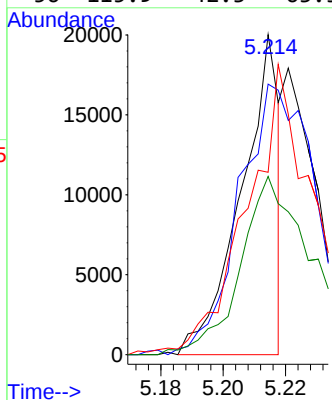
#26
Hexane
Concen: 0.173 ppbv
RT: 5.214 min Scan# 810
Delta R.T. -0.006 min
Lab File: VL040518.D
Acq: 10 Jul 2023 22:36

Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 57 Resp: 16861

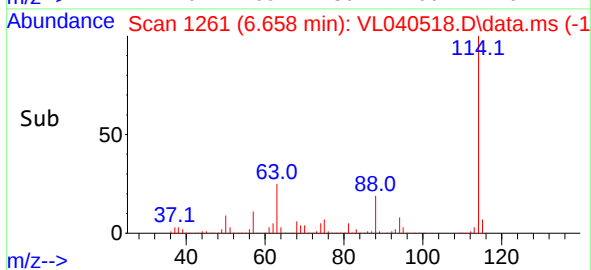
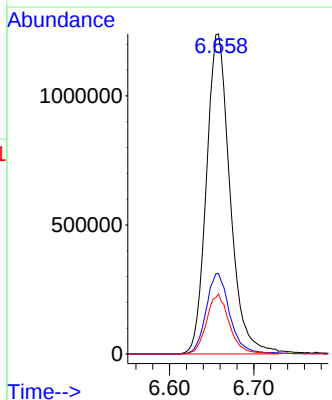
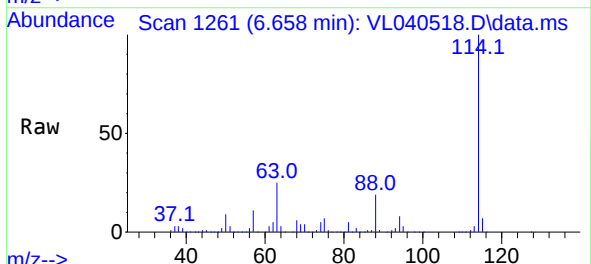
Ion	Ratio	Lower	Upper
57	100		
41	189.0	69.5	104.3#
43	177.7	177.1	265.7
56	115.9	42.3	63.5#

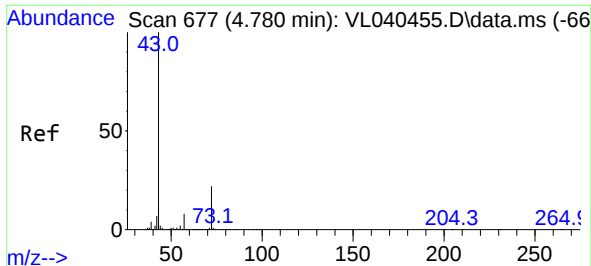


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.658 min Scan# 1261
Delta R.T. -0.006 min
Lab File: VL040518.D
Acq: 10 Jul 2023 22:36

Tgt Ion: 114 Resp: 2412590

Ion	Ratio	Lower	Upper
114	100		
63	25.4	19.6	29.4
88	18.2	14.2	21.2

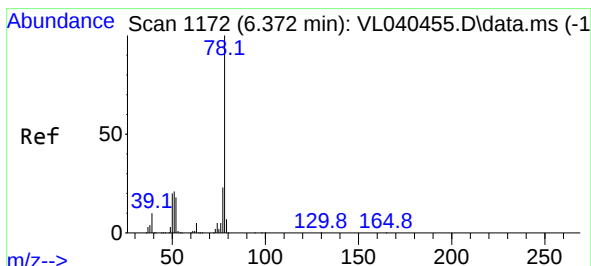
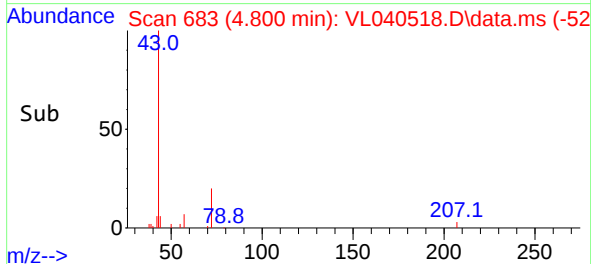
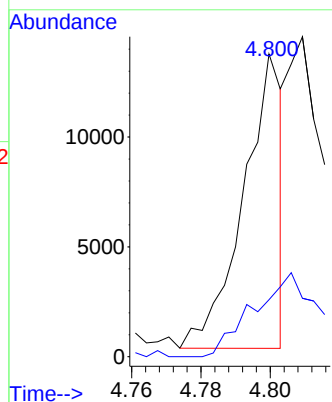
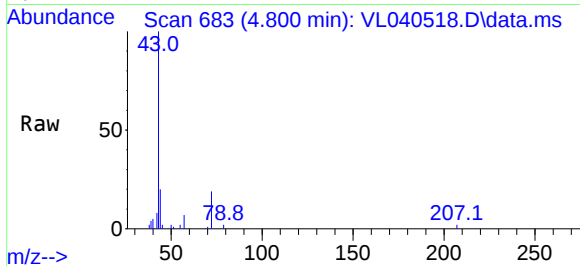




#34
2-Butanone
Concen: 0.088 ppbv
RT: 4.800 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL040518.D
Acq: 10 Jul 2023 22:36

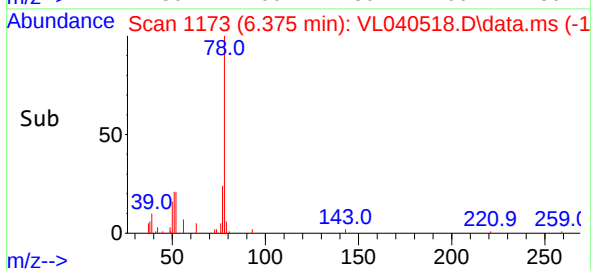
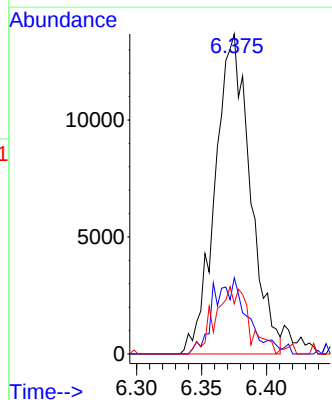
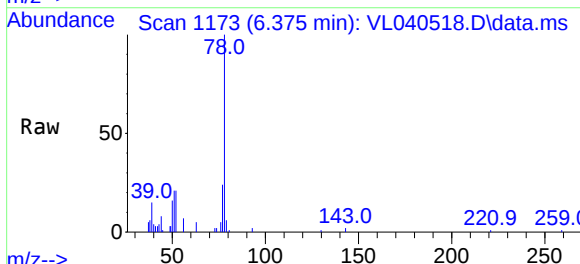
Instrument :
MSVOA_L
ClientSampleId :
IA2

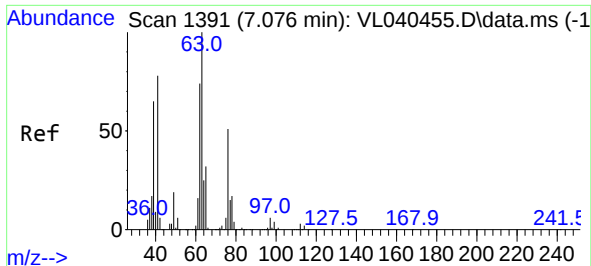
Tgt Ion: 43 Resp: 10465
Ion Ratio Lower Upper
43 100
72 0.0 19.1 28.7#



#36
Benzene
Concen: 0.132 ppbv
RT: 6.375 min Scan# 1173
Delta R.T. -0.006 min
Lab File: VL040518.D
Acq: 10 Jul 2023 22:36

Tgt Ion: 78 Resp: 25599
Ion Ratio Lower Upper
78 100
77 23.8 17.4 26.0
50 15.7 14.4 21.6





#39

1,2-Dichloropropane

Concen: 8.093 ppbv

RT: 6.658 min Scan# 11

Delta R.T. -0.424 min

Lab File: VL040518.D

Acq: 10 Jul 2023 22:36

Instrument :

MSVOA_L

ClientSampleId :

IA2

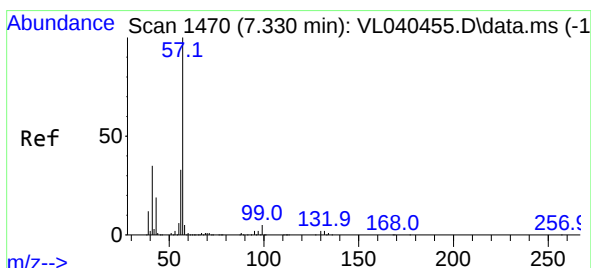
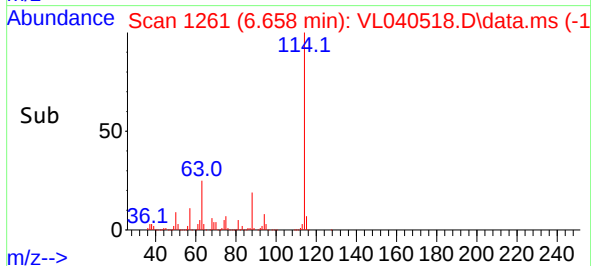
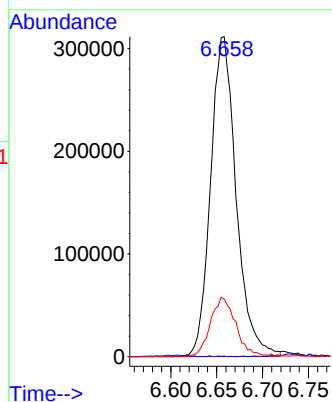
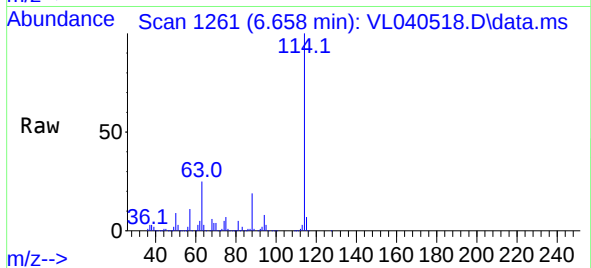
Tgt Ion: 63 Resp: 604816

Ion Ratio Lower Upper

63 100

41 0.0 54.3 81.5#

62 18.0 55.6 83.4#



#44

2,2,4-Trimethylpentane

Concen: 0.098 ppbv

RT: 7.330 min Scan# 1470

Delta R.T. -0.006 min

Lab File: VL040518.D

Acq: 10 Jul 2023 22:36

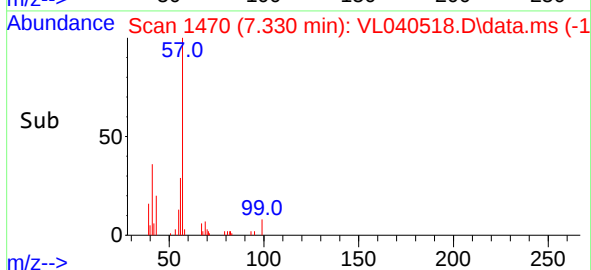
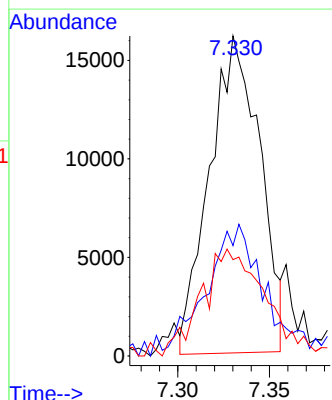
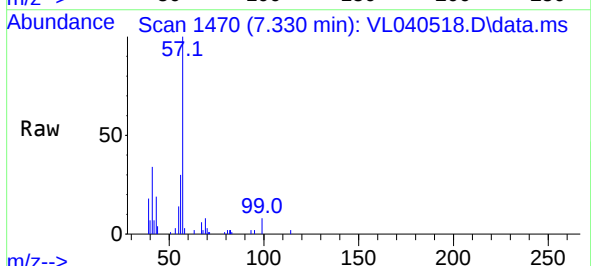
Tgt Ion: 57 Resp: 30750

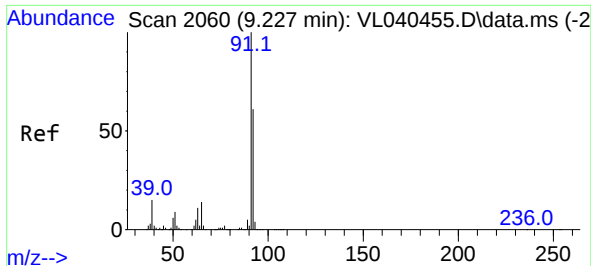
Ion Ratio Lower Upper

57 100

41 52.1 25.5 38.3#

56 43.6 25.1 37.7#

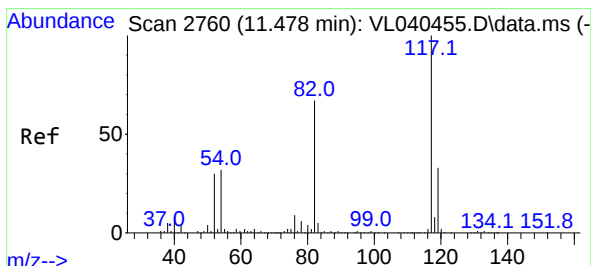
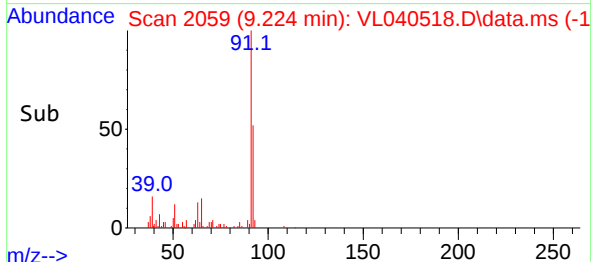
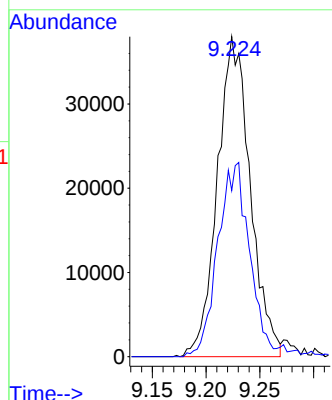
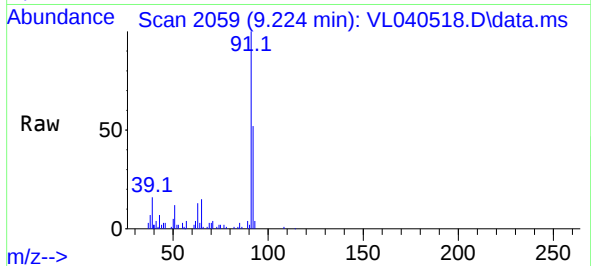




#53
Toluene
Concen: 0.383 ppbv
RT: 9.224 min Scan# 2060
Delta R.T. -0.006 min
Lab File: VL040518.D
Acq: 10 Jul 2023 22:36

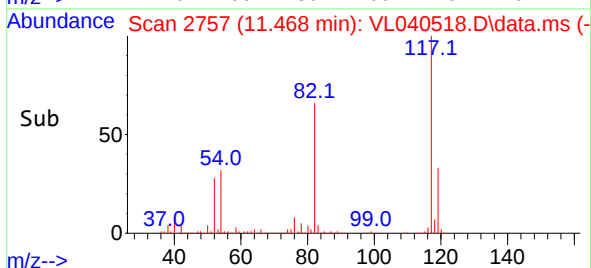
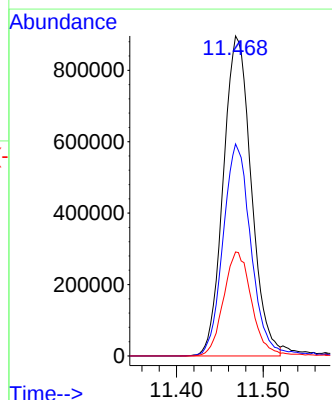
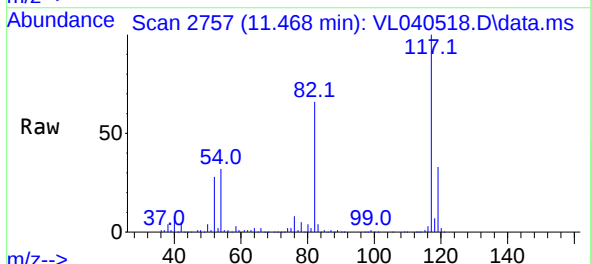
Instrument :
MSVOA_L
ClientSampleId :
IA2

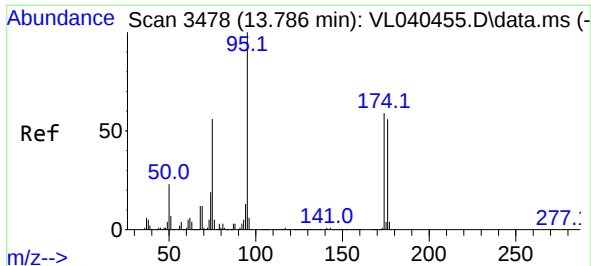
Tgt Ion: 91 Resp: 80795
Ion Ratio Lower Upper
91 100
92 60.4 49.1 73.7



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.468 min Scan# 2757
Delta R.T. -0.010 min
Lab File: VL040518.D
Acq: 10 Jul 2023 22:36

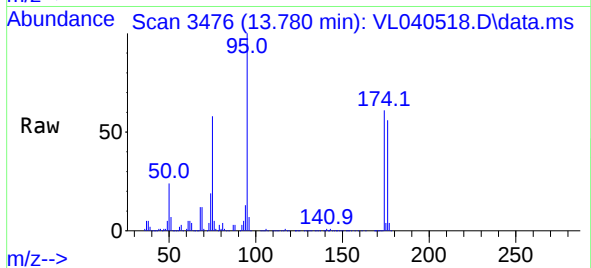
Tgt Ion: 117 Resp: 2009192
Ion Ratio Lower Upper
117 100
82 67.6 50.2 75.4
119 33.1 26.9 40.3





#68
1-Bromo-4-Fluorobenzene
Concen: 9.741 ppbv
RT: 13.780 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL040518.D
Acq: 10 Jul 2023 22:36

Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 95 Resp: 1549011
Ion Ratio Lower Upper
95 100
174 61.1 50.6 75.8
175 4.2 3.7 5.5

