

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012324\
 Data File : VL041003.D
 Acq On : 23 Jan 2024 19:29
 Operator : SY/MD
 Sample : P1212-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Quant Time: Jan 24 01:01:14 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL012324AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Jan 24 00:50:15 2024
 Response via : Initial Calibration

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

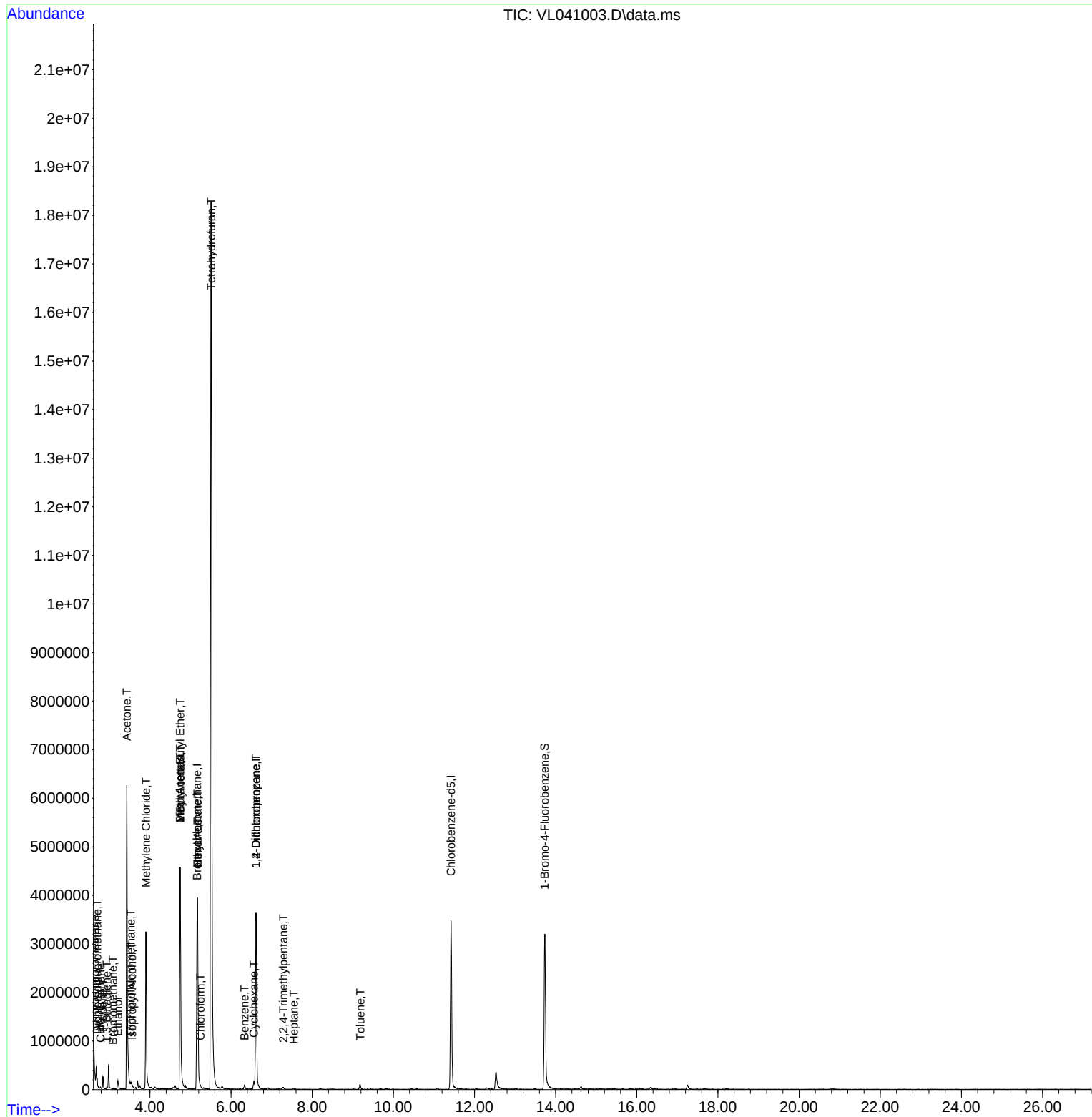
Internal Standards						
1) Bromochloromethane	5.160	49	1068094	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.616	114	2670827	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.420	117	2263377	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.732	95	1667512	9.754	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.700	85	102374	0.434	ppbv	97
3) Chlorodifluoromethane	2.645	51	37557	0.209	ppbv	99
4) Chloromethane	2.784	50	27435	0.407	ppbv	91
6) Bromomethane	3.089	94	1030	0.036	ppbv #	32
9) Propene	2.841	41	58688	0.996	ppbv	98
10) Heptane	7.545	43	5623	0.039	ppbv #	28
11) Trichlorofluoromethane	3.529	101	37102	0.195	ppbv	93
13) Ethanol	3.211	45	188422	13.417	ppbv	94
15) Acetone	3.430	43	6135518	44.920	ppbv	98
16) 1,3-Butadiene	2.935	39	5898	0.090	ppbv	99
19) Isopropyl Alcohol	3.555	45	44564	0.564	ppbv #	92
20) Methylene Chloride	3.902	84	1065344	20.270	ppbv	95
23) Vinyl Acetate	4.745	43	5499765	39.062	ppbv #	88
25) Ethyl Acetate	5.176	43	810984	3.274	ppbv #	76
26) Hexane	5.176	57	1146372	10.859	ppbv #	38
28) Methyl tert-Butyl Ether	4.745	73	55735	0.636	ppbv #	1
29) Chloroform	5.243	83	10611	0.057	ppbv	91
30) Cyclohexane	6.558	84	45456	0.514	ppbv	91
34) 2-Butanone	4.745	43	5499765	43.223	ppbv	98
36) Benzene	6.330	78	66571	0.302	ppbv	93
39) 1,2-Dichloropropane	6.616	63	665030	7.653	ppbv #	24
41) Tetrahydrofuran	5.507	42	11083041	128.284	ppbv	89
44) 2,2,4-Trimethylpentane	7.288	57	23311	0.063	ppbv #	46
53) Toluene	9.185	91	36206	0.150	ppbv #	30

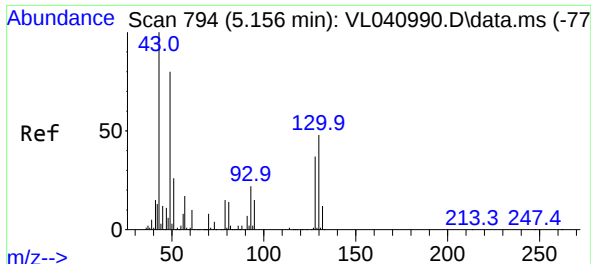
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012324\
Data File : VL041003.D
Acq On : 23 Jan 2024 19:29
Operator : SY/MD
Sample : P1211-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA1

Quant Time: Jan 24 01:01:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL012324AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Jan 24 00:50:15 2024
Response via : Initial Calibration

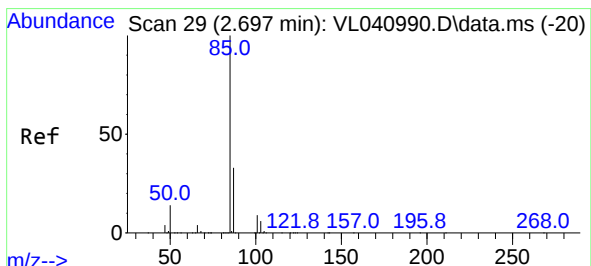
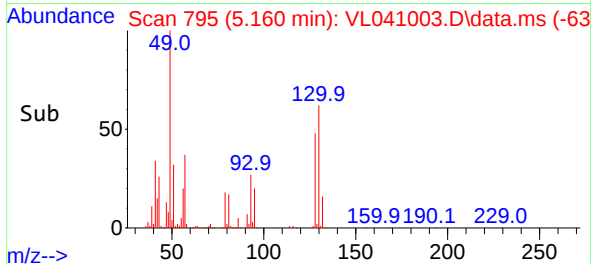
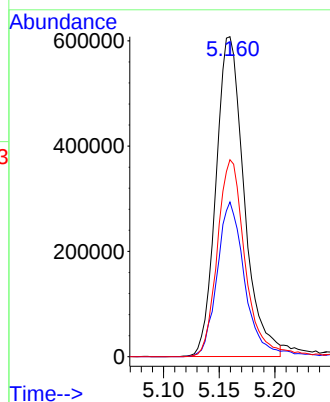
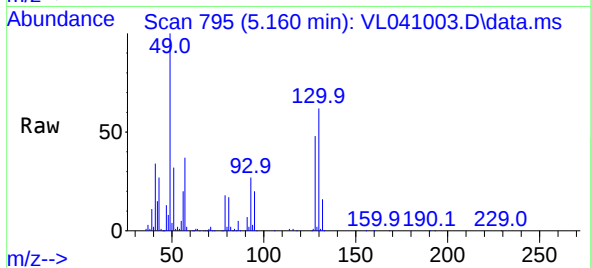




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.160 min Scan# 794
Delta R.T. 0.004 min
Lab File: VL041003.D
Acq: 23 Jan 2024 19:29

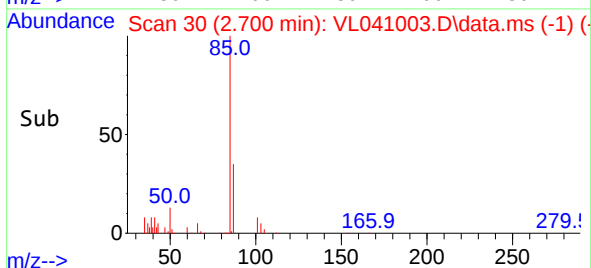
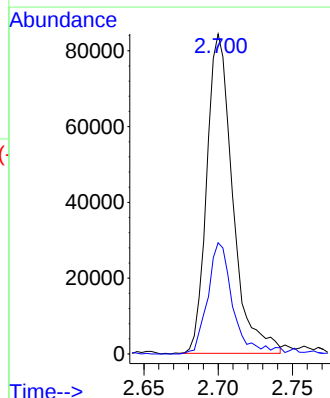
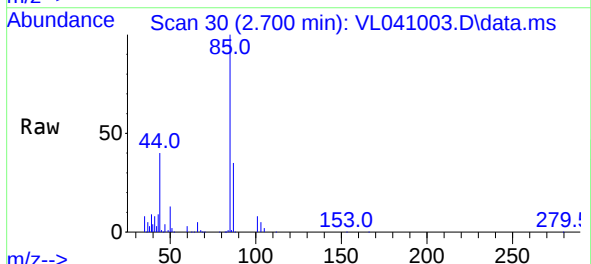
Instrument :
MSVOA_L
ClientSampleId :
IA1

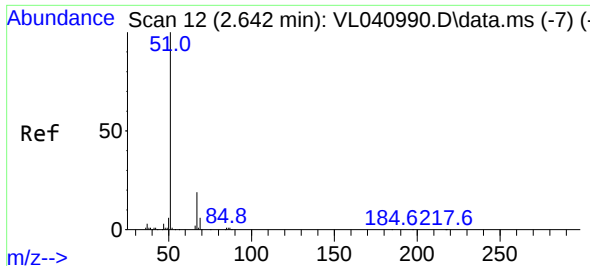
Tgt Ion: 49 Resp: 1068094
Ion Ratio Lower Upper
49 100
128 48.6 23.9 71.7
130 61.5 31.1 93.5



#2
Dichlorodifluoromethane
Concen: 0.434 ppbv
RT: 2.700 min Scan# 30
Delta R.T. 0.003 min
Lab File: VL041003.D
Acq: 23 Jan 2024 19:29

Tgt Ion: 85 Resp: 102374
Ion Ratio Lower Upper
85 100
87 34.8 26.3 39.5

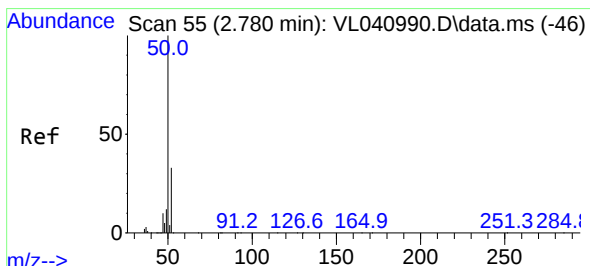
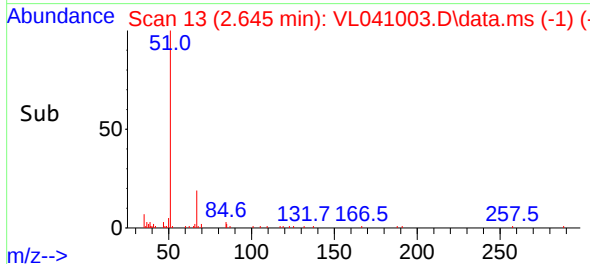
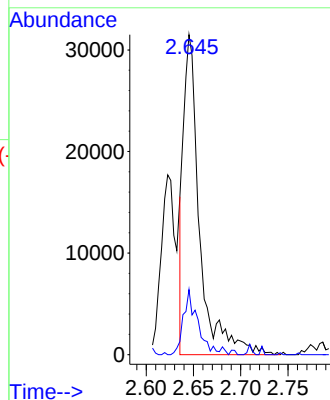
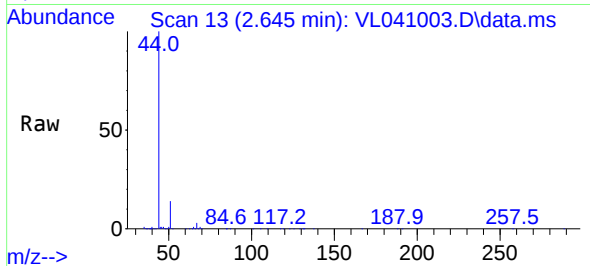




#3
Chlorodifluoromethane
Concen: 0.209 ppbv
RT: 2.645 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL041003.D
Acq: 23 Jan 2024 19:29

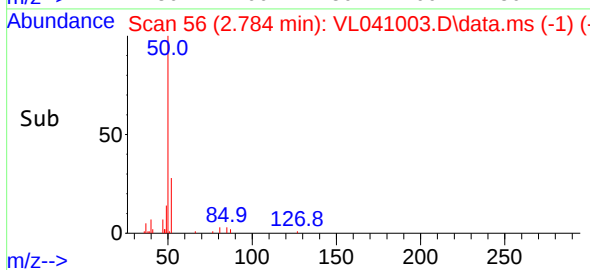
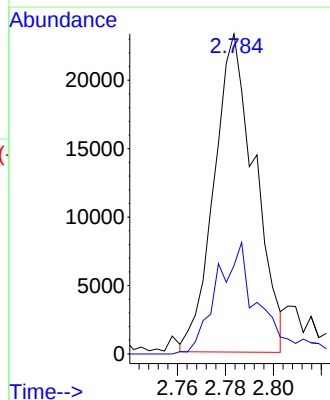
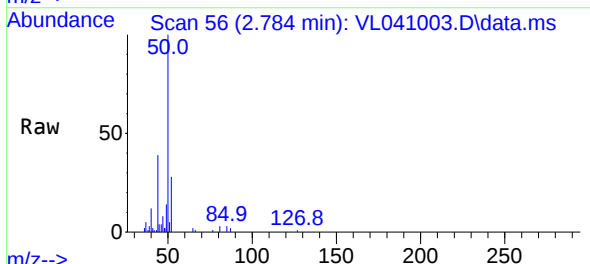
Instrument :
MSVOA_L
ClientSampleId :
IA1

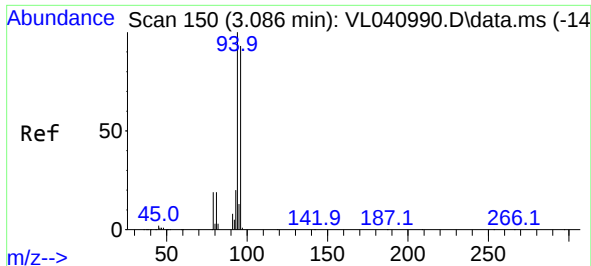
Tgt Ion: 51 Resp: 37557
Ion Ratio Lower Upper
51 100
67 18.9 14.8 22.2



#4
Chloromethane
Concen: 0.407 ppbv
RT: 2.784 min Scan# 56
Delta R.T. 0.003 min
Lab File: VL041003.D
Acq: 23 Jan 2024 19:29

Tgt Ion: 50 Resp: 27435
Ion Ratio Lower Upper
50 100
52 27.7 26.2 39.4

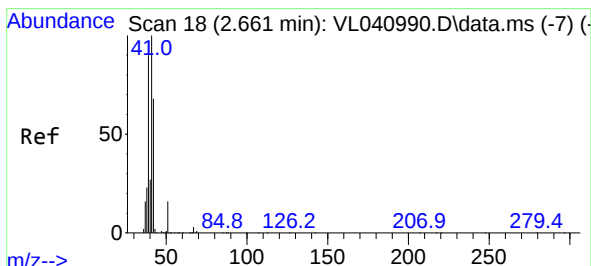
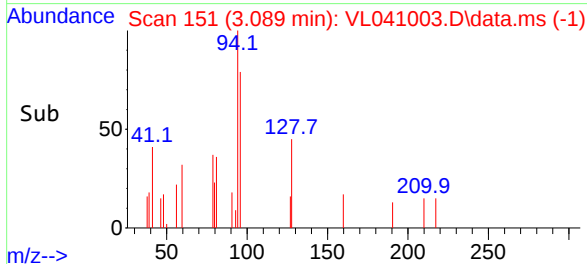
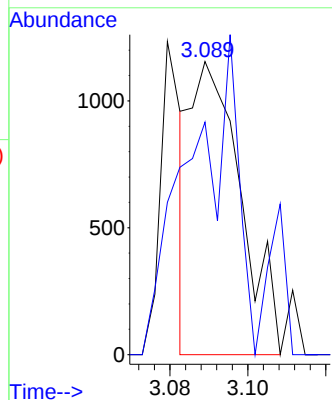
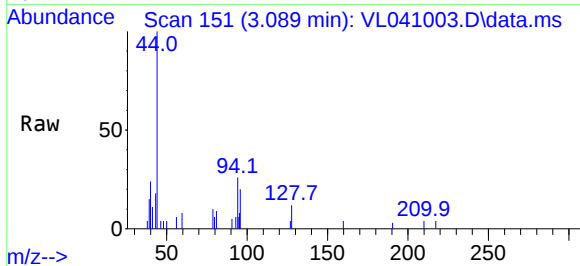




#6
Bromomethane
Concen: 0.036 ppbv
RT: 3.089 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL041003.D
Acq: 23 Jan 2024 19:29

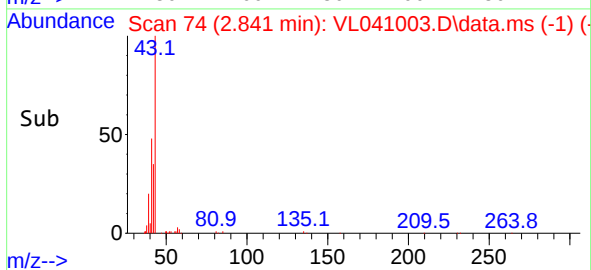
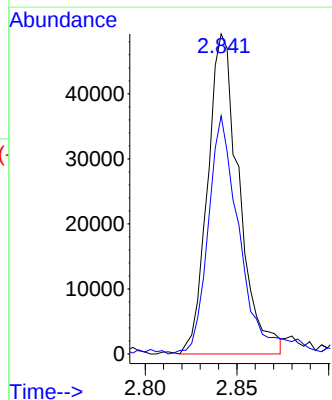
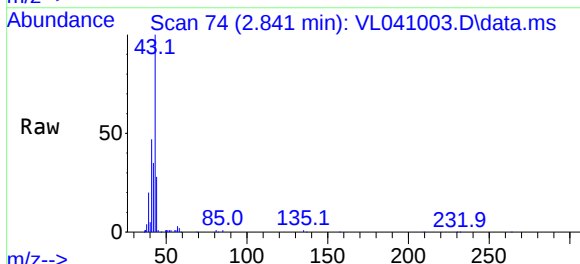
Instrument :
MSVOA_L
ClientSampleId :
IA1

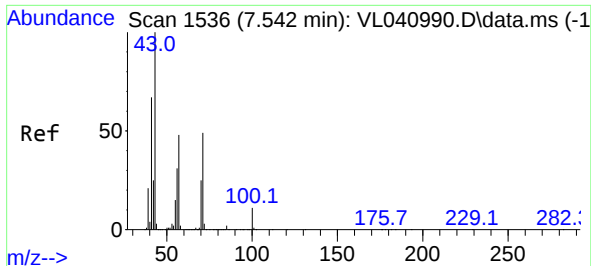
Tgt Ion: 94 Resp: 1030
Ion Ratio Lower Upper
94 100
96 27.9 74.2 111.4#



#9
Propene
Concen: 0.996 ppbv
RT: 2.841 min Scan# 74
Delta R.T. 0.180 min
Lab File: VL041003.D
Acq: 23 Jan 2024 19:29

Tgt Ion: 41 Resp: 58688
Ion Ratio Lower Upper
41 100
42 75.5 59.0 88.4

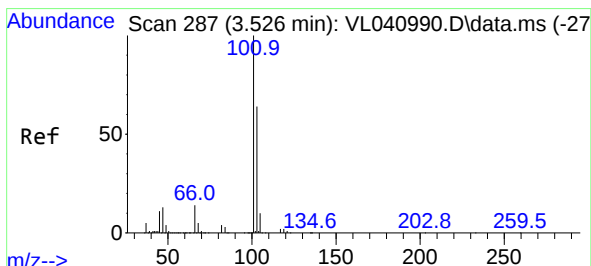
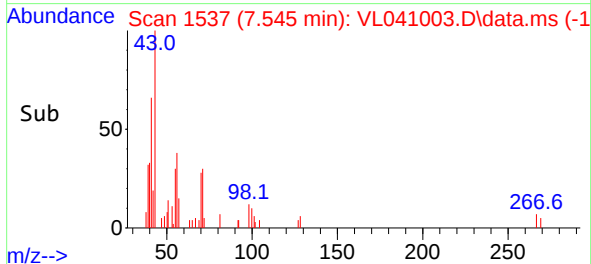
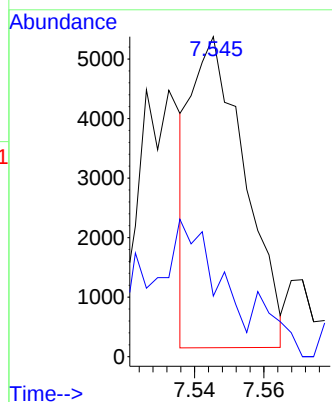
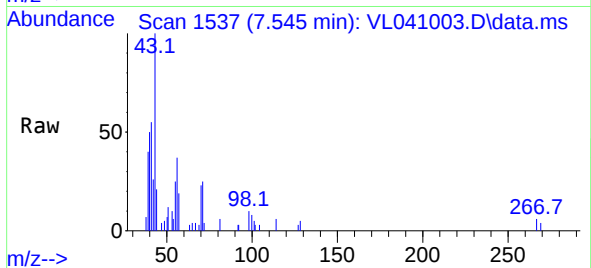




#10
Heptane
Concen: 0.039 ppbv
RT: 7.545 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL041003.D
Acq: 23 Jan 2024 19:29

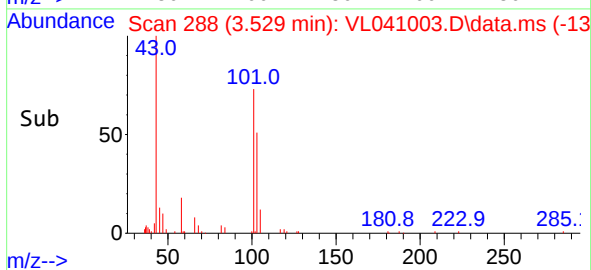
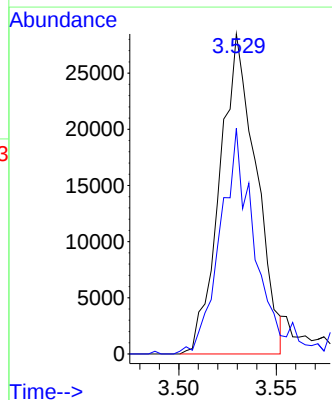
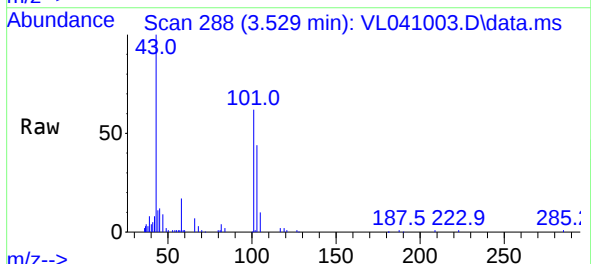
Instrument :
MSVOA_L
ClientSampleId :
IA1

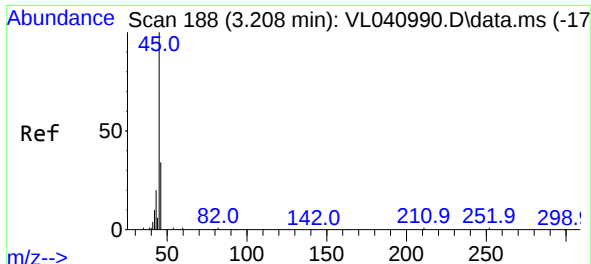
Tgt Ion: 43 Resp: 5623
Ion Ratio Lower Upper
43 100
57 0.0 39.4 59.2#



#11
Trichlorofluoromethane
Concen: 0.195 ppbv
RT: 3.529 min Scan# 288
Delta R.T. 0.003 min
Lab File: VL041003.D
Acq: 23 Jan 2024 19:29

Tgt Ion: 101 Resp: 37102
Ion Ratio Lower Upper
101 100
103 69.7 51.4 77.2

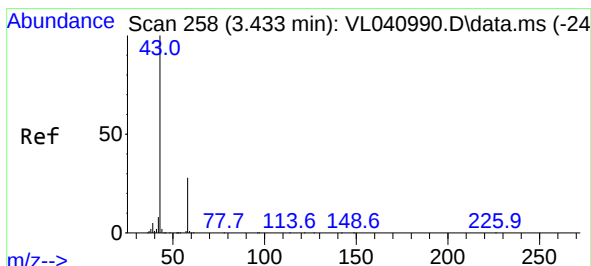
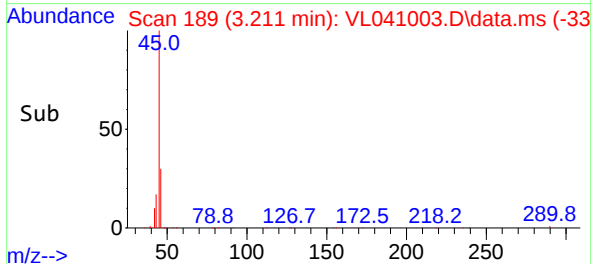
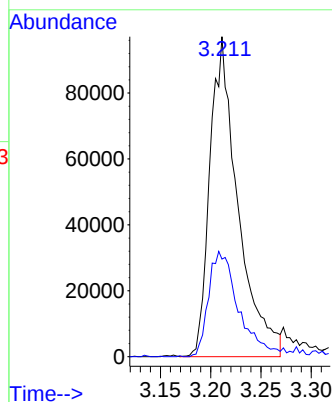
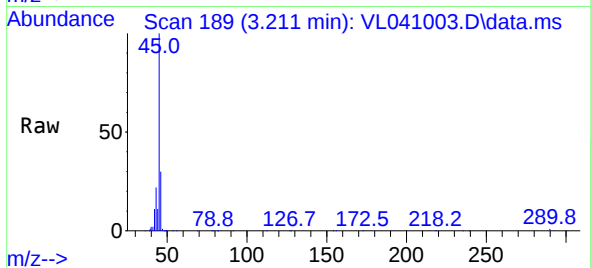




#13
Ethanol
Concen: 13.417 ppbv
RT: 3.211 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL041003.D
Acq: 23 Jan 2024 19:29

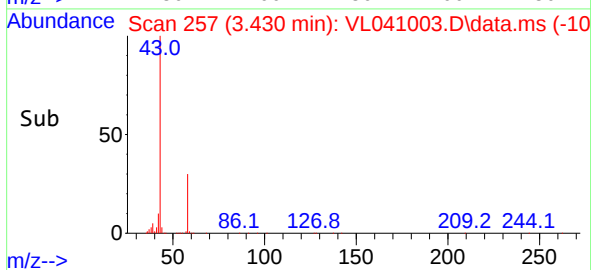
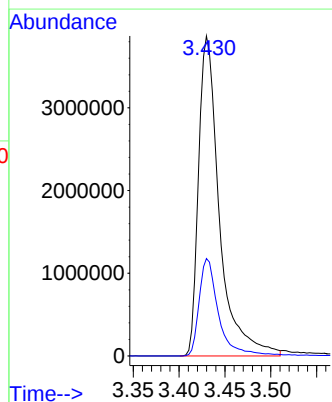
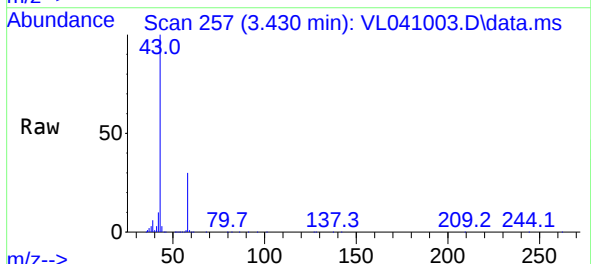
Instrument :
MSVOA_L
ClientSampleId :
IA1

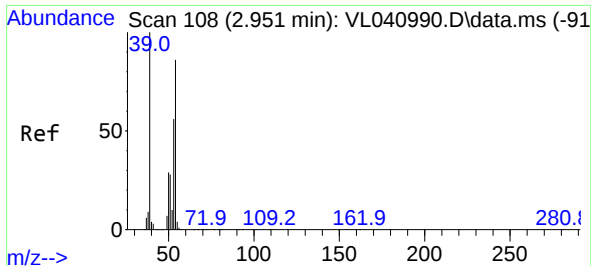
Tgt Ion: 45 Resp: 188422
Ion Ratio Lower Upper
45 100
46 36.6 16.2 64.8



#15
Acetone
Concen: 44.920 ppbv
RT: 3.430 min Scan# 257
Delta R.T. -0.003 min
Lab File: VL041003.D
Acq: 23 Jan 2024 19:29

Tgt Ion: 43 Resp: 6135518
Ion Ratio Lower Upper
43 100
58 29.0 22.2 33.2





#16

1,3-Butadiene

Concen: 0.090 ppbv

RT: 2.935 min Scan# 103

Delta R.T. -0.016 min

Lab File: VL041003.D

Acq: 23 Jan 2024 19:29

Instrument :

MSVOA_L

ClientSampleId :

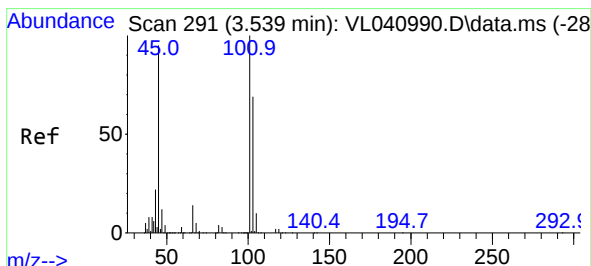
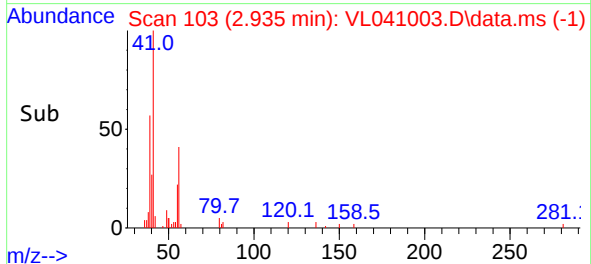
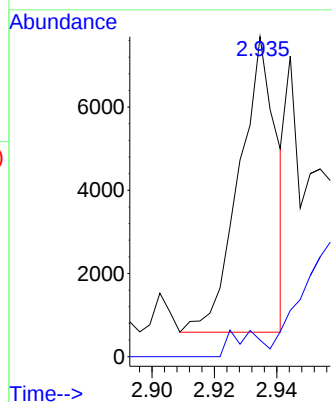
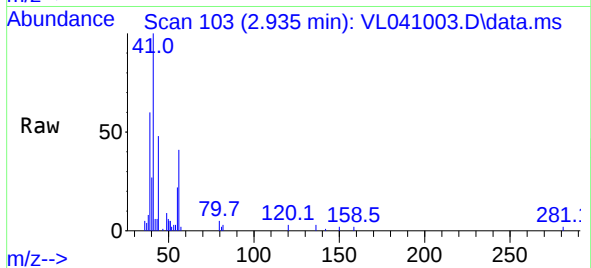
IA1

Tgt Ion: 39 Resp: 5898

Ion Ratio Lower Upper

39 100

54 79.4 62.7 94.1



#19

Isopropyl Alcohol

Concen: 0.564 ppbv

RT: 3.555 min Scan# 296

Delta R.T. 0.016 min

Lab File: VL041003.D

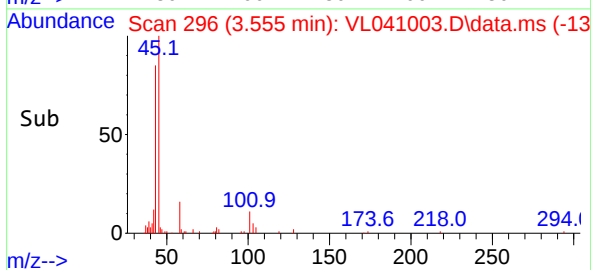
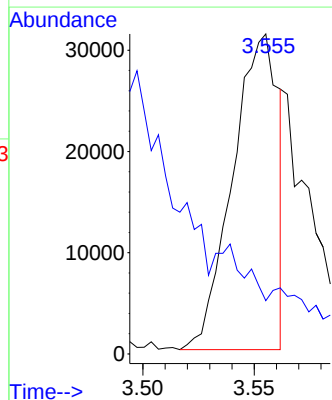
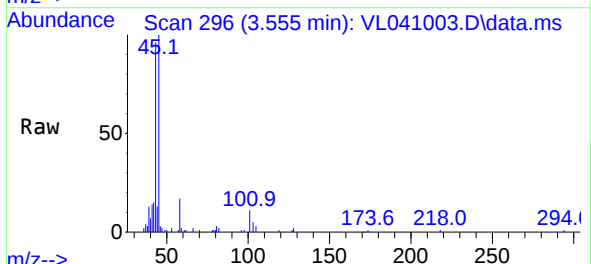
Acq: 23 Jan 2024 19:29

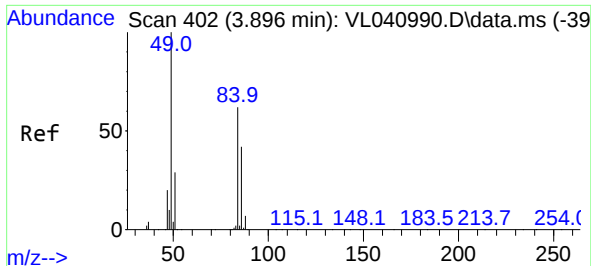
Tgt Ion: 45 Resp: 44564

Ion Ratio Lower Upper

45 100

58 0.0 2.2 3.4#



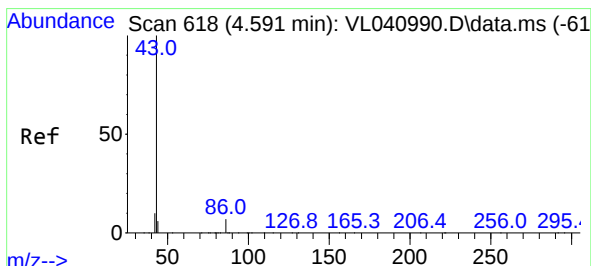
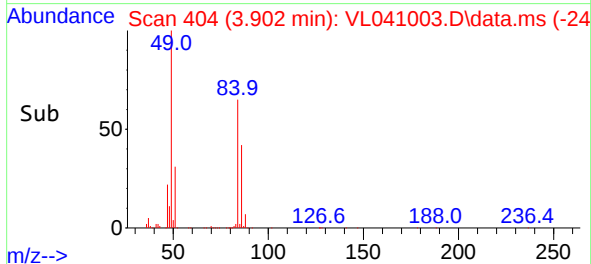
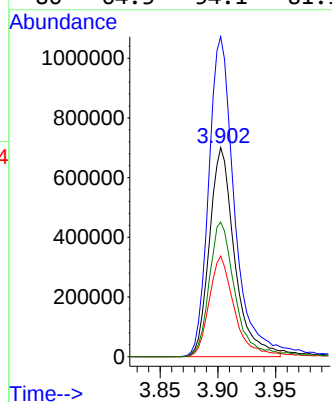
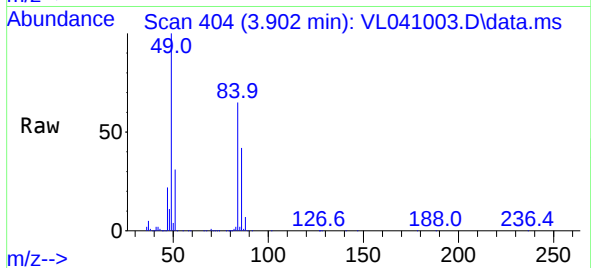


#20
Methylene Chloride
Concen: 20.270 ppbv
RT: 3.902 min Scan# 40
Delta R.T. 0.006 min
Lab File: VL041003.D
Acq: 23 Jan 2024 19:29

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 84 Resp: 1065344

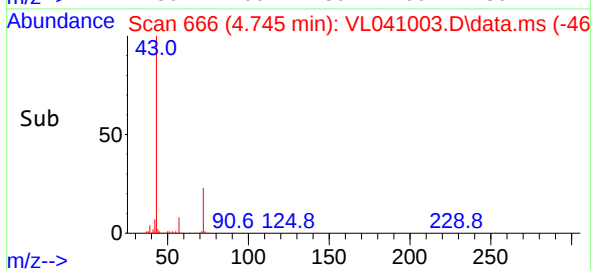
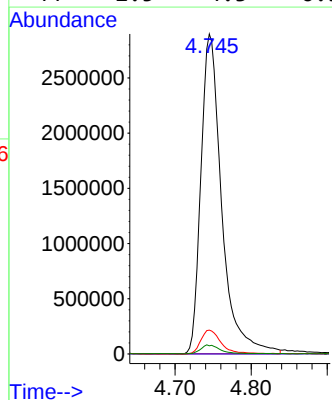
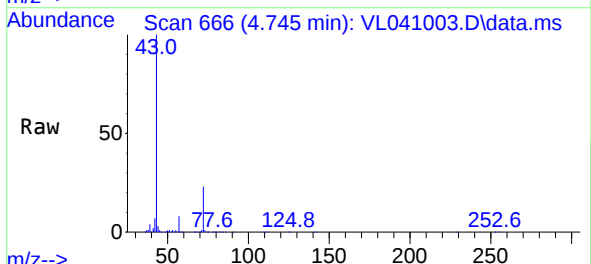
Ion	Ratio	Lower	Upper
84	100		
49	152.9	128.1	192.1
51	48.1	36.5	54.7
86	64.3	54.1	81.1

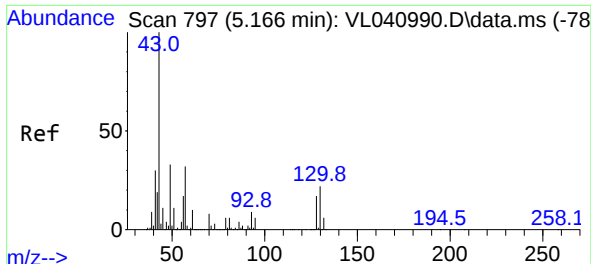


#23
Vinyl Acetate
Concen: 39.062 ppbv
RT: 4.745 min Scan# 666
Delta R.T. 0.154 min
Lab File: VL041003.D
Acq: 23 Jan 2024 19:29

Tgt Ion: 43 Resp: 5499765

Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.4	8.0#
42	7.4	8.6	13.0#
44	2.5	4.3	6.5#





#25

Ethyl Acetate

Concen: 3.274 ppbv

RT: 5.176 min Scan# 800

Delta R.T. 0.010 min

Lab File: VL041003.D

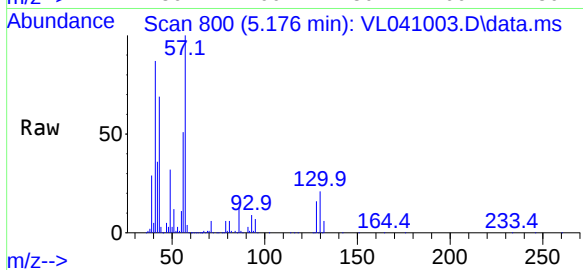
Acq: 23 Jan 2024 19:29

Instrument :

MSVOA_L

ClientSampleId :

IA1



Tgt Ion: 43 Resp: 810984

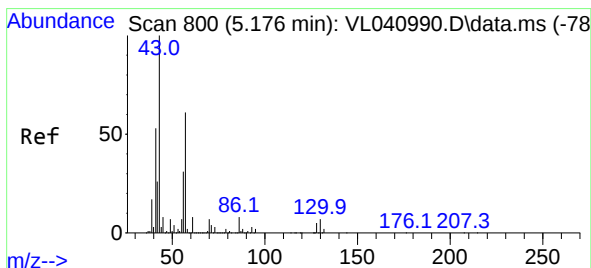
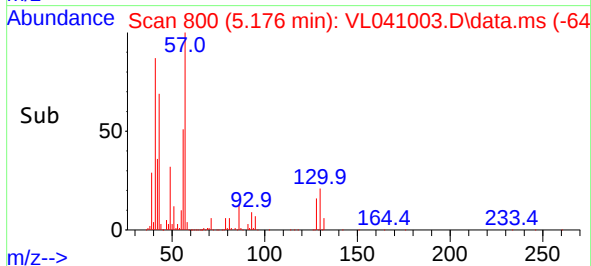
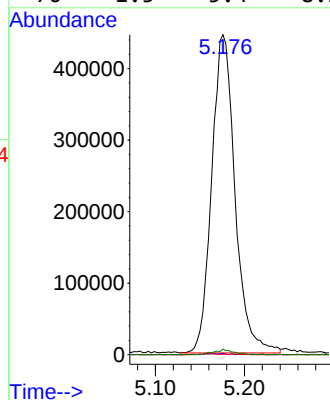
Ion Ratio Lower Upper

43 100

45 0.4 8.2 12.4#

61 0.2 7.9 11.9#

70 1.5 5.4 8.2#



#26

Hexane

Concen: 10.859 ppbv

RT: 5.176 min Scan# 800

Delta R.T. -0.000 min

Lab File: VL041003.D

Acq: 23 Jan 2024 19:29

Tgt Ion: 57 Resp: 1146372

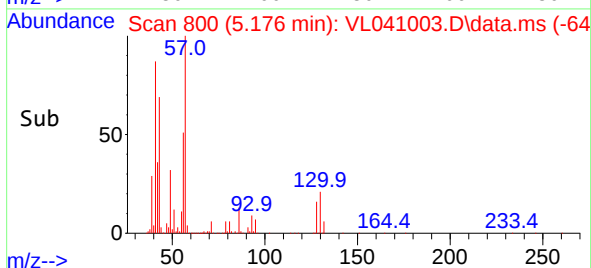
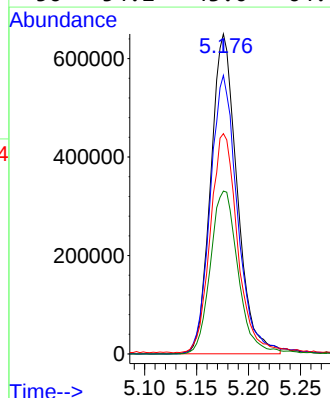
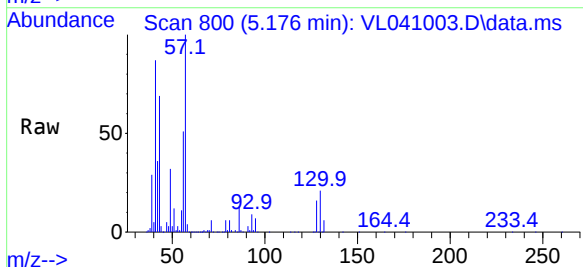
Ion Ratio Lower Upper

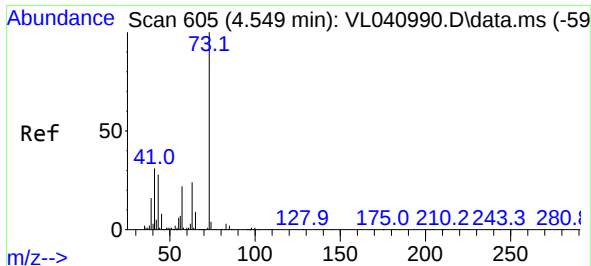
57 100

41 91.1 74.4 111.6

43 71.7 190.6 285.8#

56 54.2 43.0 64.4

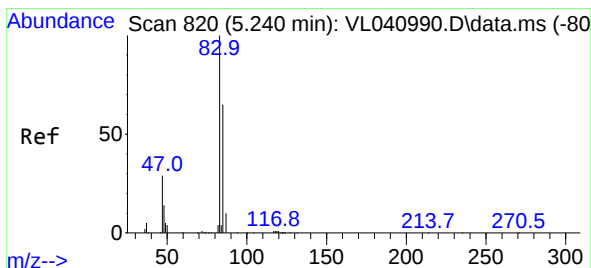
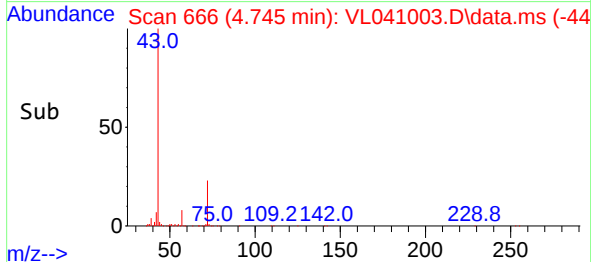
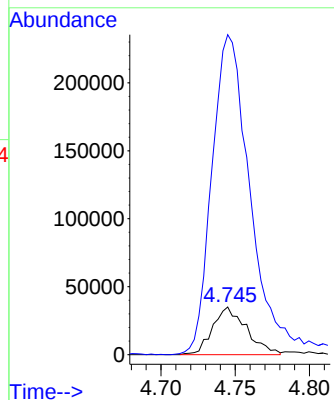
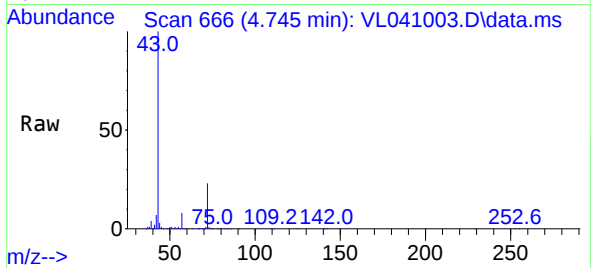




#28
Methyl tert-Butyl Ether
Concen: 0.636 ppbv
RT: 4.745 min Scan# 605
Delta R.T. 0.196 min
Lab File: VL041003.D
Acq: 23 Jan 2024 19:29

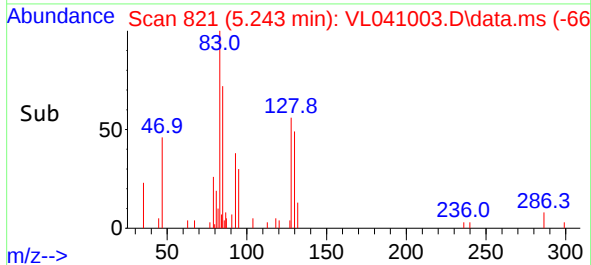
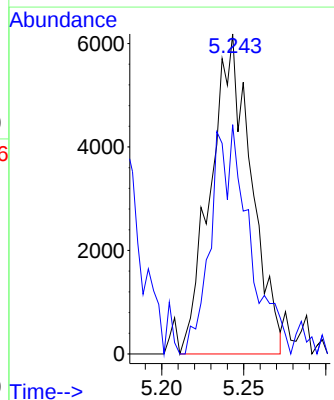
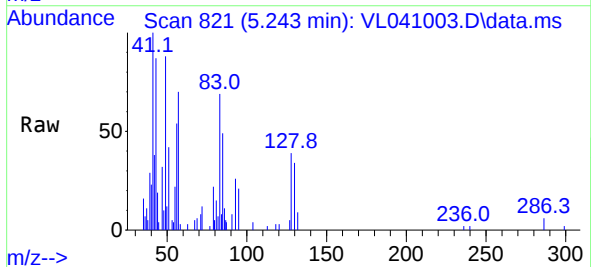
Instrument :
MSVOA_L
ClientSampleId :
IA1

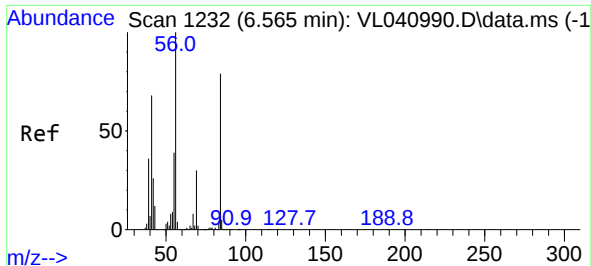
Tgt Ion: 73 Resp: 55735
Ion Ratio Lower Upper
73 100
57 782.3 18.0 27.0#



#29
Chloroform
Concen: 0.057 ppbv
RT: 5.243 min Scan# 821
Delta R.T. 0.003 min
Lab File: VL041003.D
Acq: 23 Jan 2024 19:29

Tgt Ion: 83 Resp: 10611
Ion Ratio Lower Upper
83 100
85 71.6 51.6 77.4

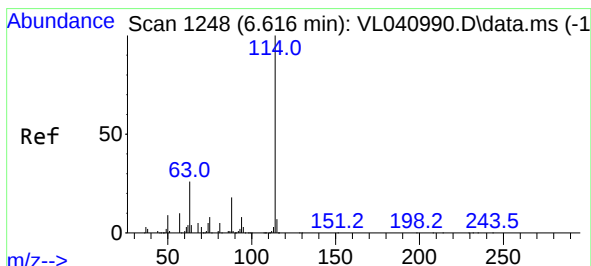
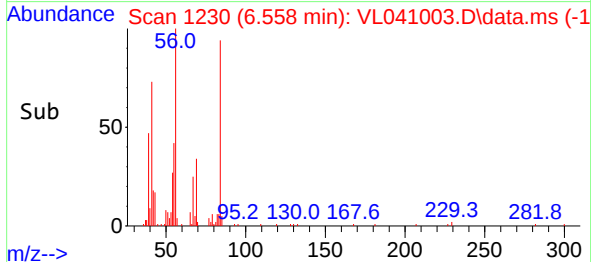
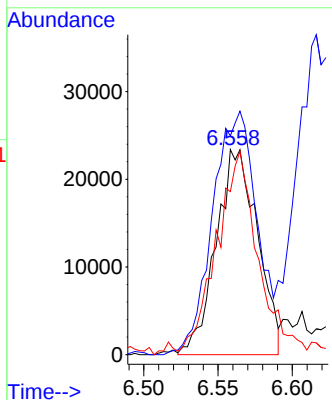
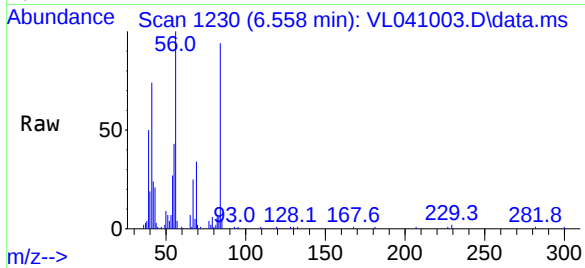




#30
Cyclohexane
Concen: 0.514 ppbv
RT: 6.558 min Scan# 1230
Delta R.T. -0.006 min
Lab File: VL041003.D
Acq: 23 Jan 2024 19:29

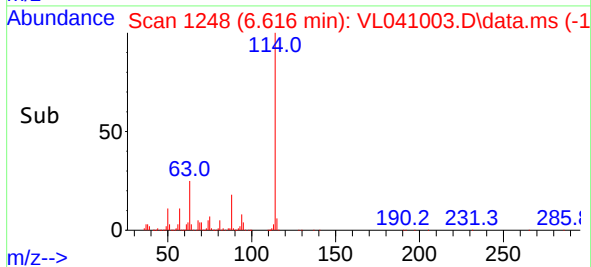
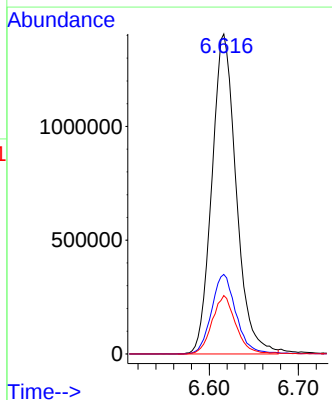
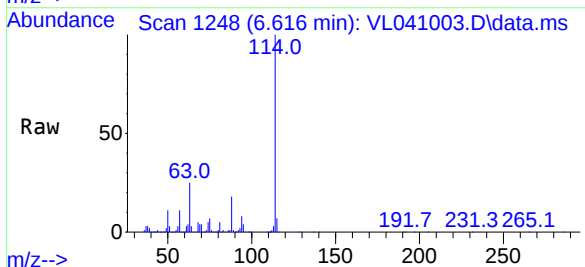
Instrument :
MSVOA_L
ClientSampleId :
IA1

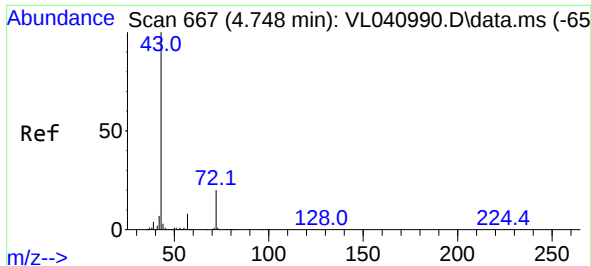
Tgt Ion: 84 Resp: 45456
Ion Ratio Lower Upper
84 100
56 130.0 111.7 167.5
41 99.6 71.0 106.6



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.616 min Scan# 1248
Delta R.T. -0.000 min
Lab File: VL041003.D
Acq: 23 Jan 2024 19:29

Tgt Ion: 114 Resp: 2670827
Ion Ratio Lower Upper
114 100
63 25.4 20.8 31.2
88 18.0 14.3 21.5

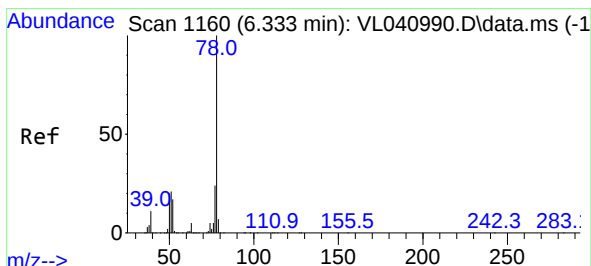
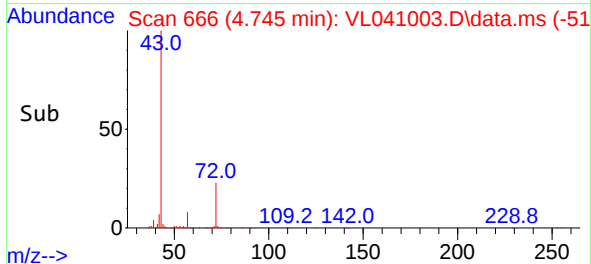
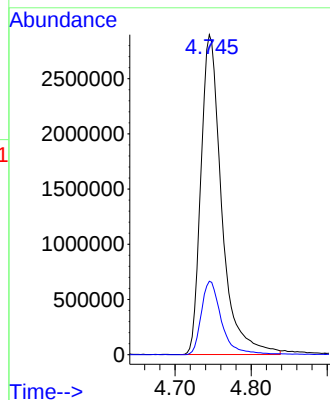
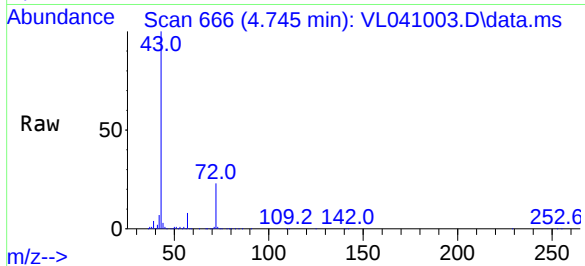




#34
2-Butanone
Concen: 43.223 ppbv
RT: 4.745 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL041003.D
Acq: 23 Jan 2024 19:29

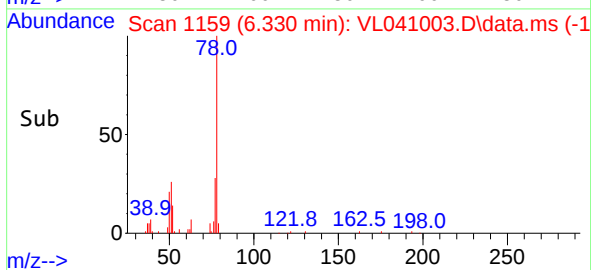
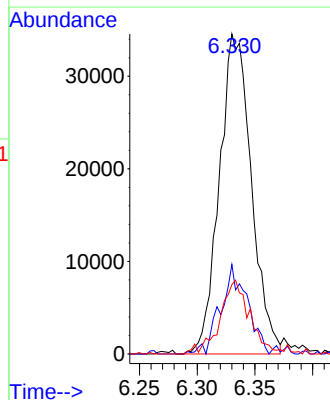
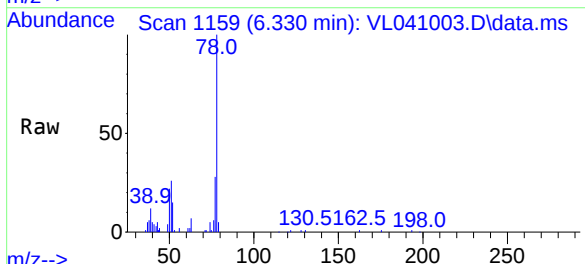
Instrument :
MSVOA_L
ClientSampleId :
IA1

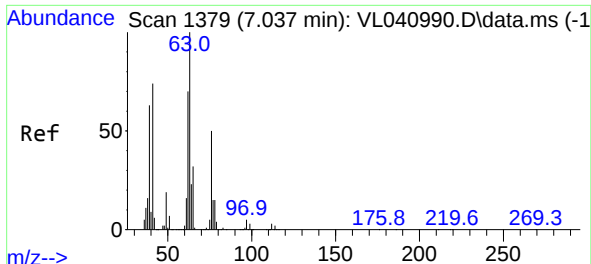
Tgt Ion: 43 Resp: 5499765
Ion Ratio Lower Upper
43 100
72 22.8 17.5 26.3



#36
Benzene
Concen: 0.302 ppbv
RT: 6.330 min Scan# 1159
Delta R.T. -0.003 min
Lab File: VL041003.D
Acq: 23 Jan 2024 19:29

Tgt Ion: 78 Resp: 66571
Ion Ratio Lower Upper
78 100
77 28.0 19.0 28.4
50 21.6 15.8 23.6





#39

1,2-Dichloropropane

Concen: 7.653 ppbv

RT: 6.616 min Scan# 11

Delta R.T. -0.421 min

Lab File: VL041003.D

Acq: 23 Jan 2024 19:29

Instrument :

MSVOA_L

ClientSampleId :

IA1

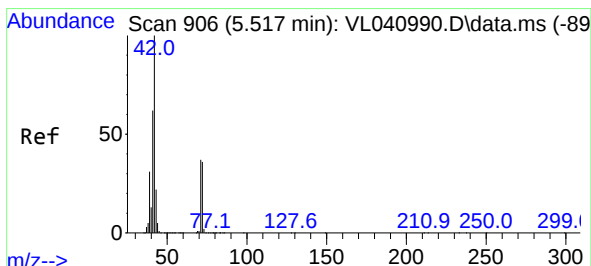
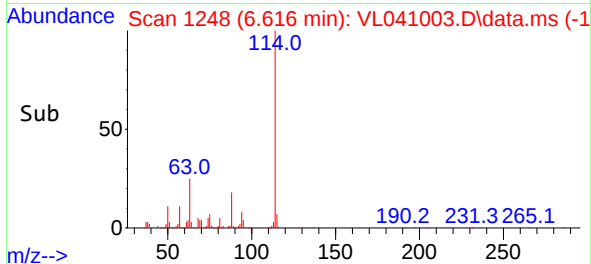
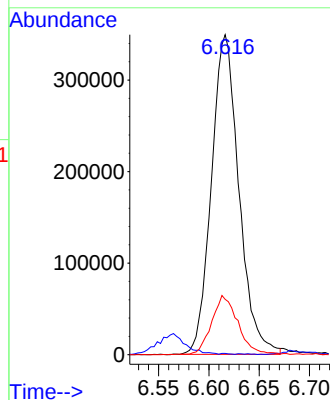
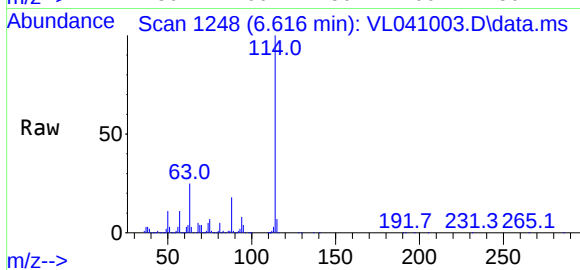
Tgt Ion: 63 Resp: 665030

Ion Ratio Lower Upper

63 100

41 0.0 59.6 89.4#

62 17.2 55.6 83.4#



#41

Tetrahydrofuran

Concen: 128.284 ppbv

RT: 5.507 min Scan# 903

Delta R.T. -0.010 min

Lab File: VL041003.D

Acq: 23 Jan 2024 19:29

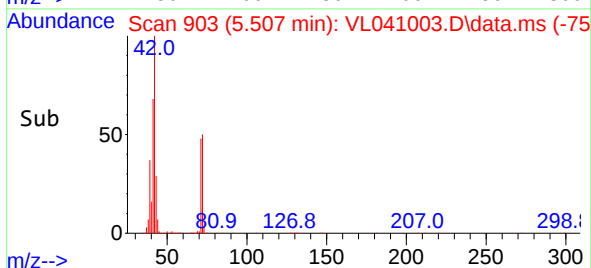
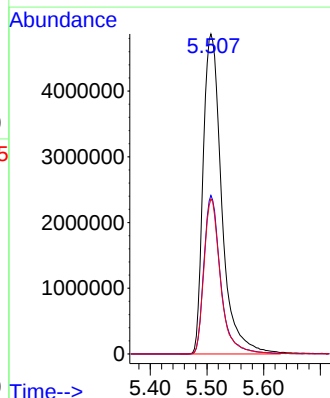
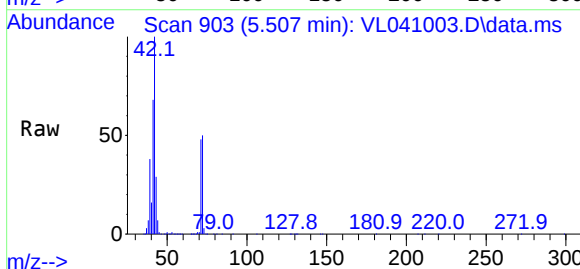
Tgt Ion: 42 Resp: 11083041

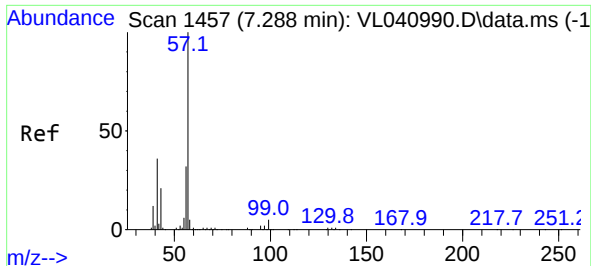
Ion Ratio Lower Upper

42 100

72 44.7 30.0 45.0

71 43.4 29.5 44.3

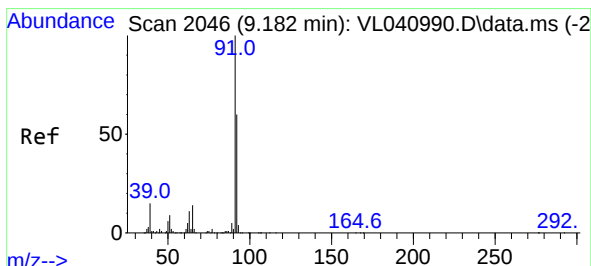
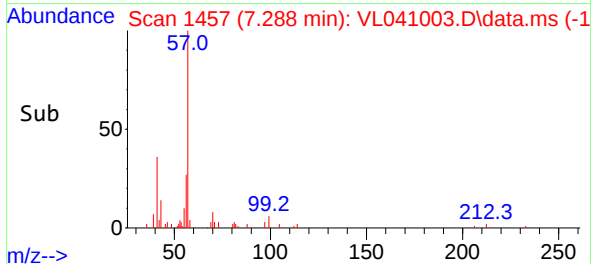
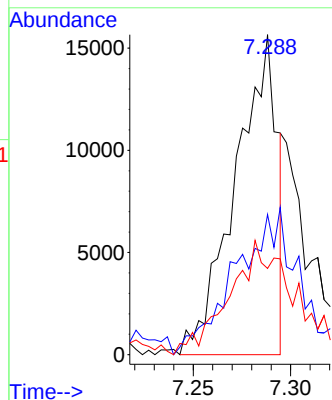
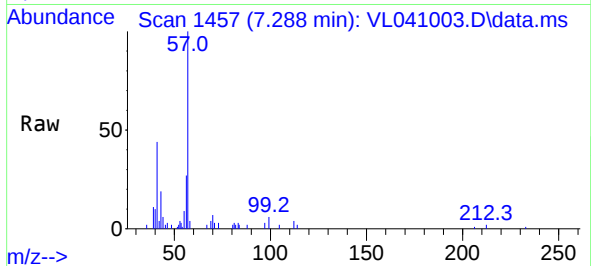




#44
2,2,4-Trimethylpentane
Concen: 0.063 ppbv
RT: 7.288 min Scan# 1457
Delta R.T. -0.000 min
Lab File: VL041003.D
Acq: 23 Jan 2024 19:29

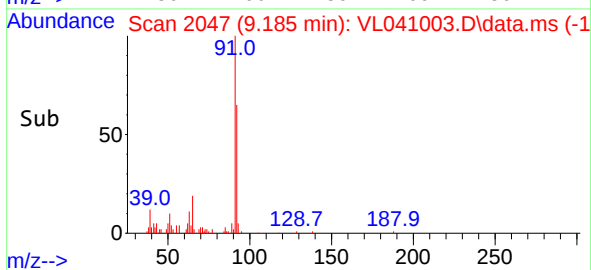
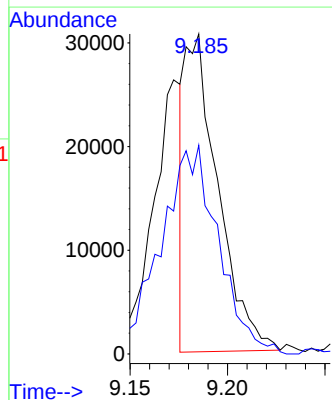
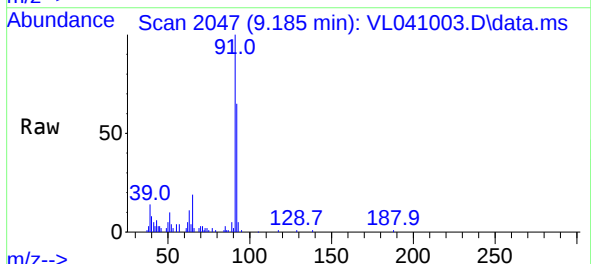
Instrument :
MSVOA_L
ClientSampleId :
IA1

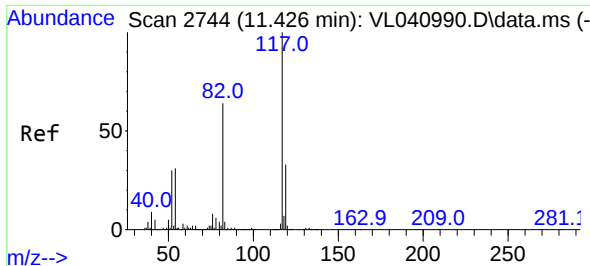
Tgt Ion: 57 Resp: 23311
Ion Ratio Lower Upper
57 100
41 71.6 28.6 43.0#
56 56.6 25.2 37.8#



#53
Toluene
Concen: 0.150 ppbv
RT: 9.185 min Scan# 2047
Delta R.T. 0.003 min
Lab File: VL041003.D
Acq: 23 Jan 2024 19:29

Tgt Ion: 91 Resp: 36206
Ion Ratio Lower Upper
91 100
92 113.8 48.6 72.8#

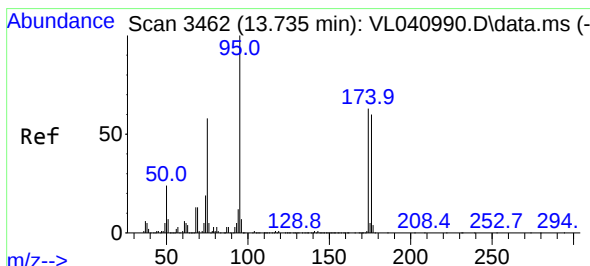
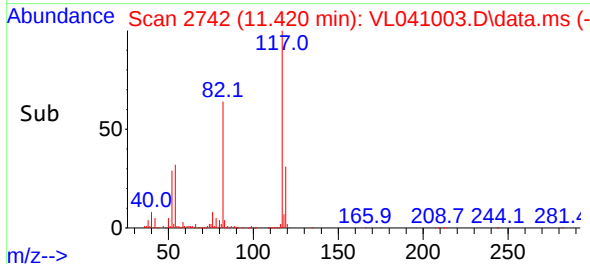
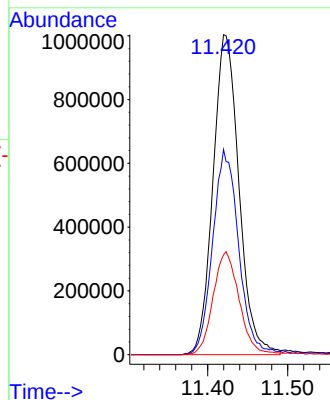
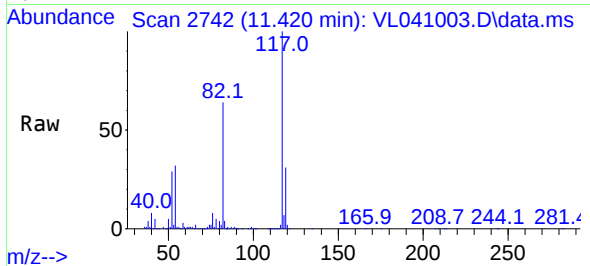




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.420 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL041003.D
Acq: 23 Jan 2024 19:29

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion:117 Resp: 2263377
Ion Ratio Lower Upper
117 100
82 65.6 51.7 77.5
119 32.7 23.8 35.6



#68
1-Bromo-4-Fluorobenzene
Concen: 9.754 ppbv
RT: 13.732 min Scan# 3461
Delta R.T. -0.003 min
Lab File: VL041003.D
Acq: 23 Jan 2024 19:29

Tgt Ion: 95 Resp: 1667512
Ion Ratio Lower Upper
95 100
174 62.0 49.1 73.7
175 4.3 3.7 5.5

