

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021524\
 Data File : VL041069.D
 Acq On : 15 Feb 2024 13:30
 Operator : SY/MD
 Sample : P1490-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Quant Time: Feb 16 04:08:13 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 : Fri Feb 16 04:05:22 2024
 Response via : Initial Calibration

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

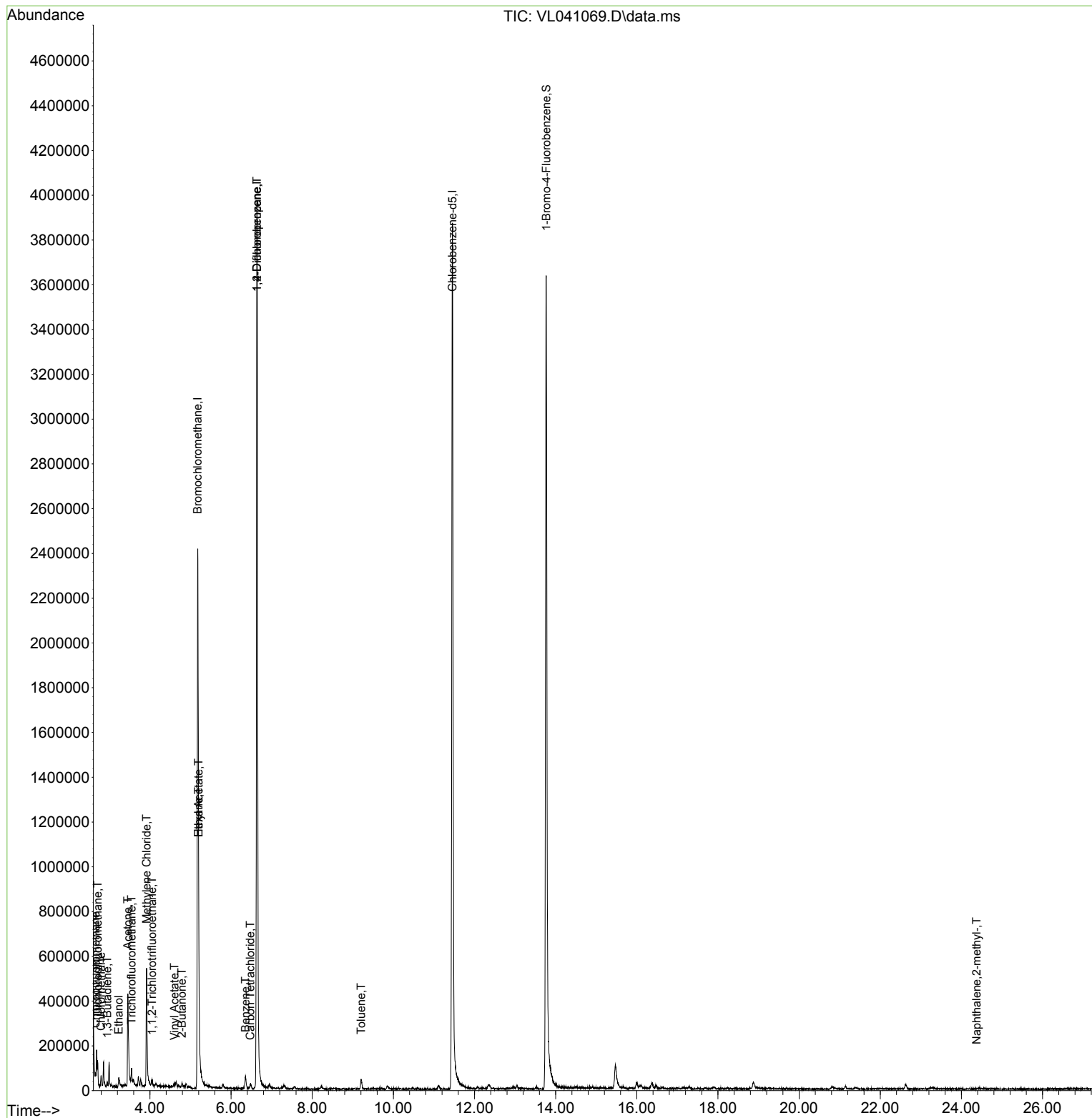
Internal Standards						
1) Bromochloromethane	5.176	49	1162754	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.639	114	3108520	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.455	117	2619541	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	1972546	9.970	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.710	85	71822	0.280	ppbv	94
3) Chlorodifluoromethane	2.658	51	49923	0.255	ppbv #	91
4) Chloromethane	2.796	50	39200	0.535	ppbv #	88
11) Trichlorofluoromethane	3.546	101	42210	0.204	ppbv	92
12) 1,1,2-Trichlorotrifluo...	4.054	101	9070	0.060	ppbv	91
13) Ethanol	3.230	45	16003	1.047	ppbv #	35
15) Acetone	3.455	43	454821	3.059	ppbv	98
16) 1,3-Butadiene	2.951	39	6273	0.088	ppbv #	39
20) Methylene Chloride	3.918	84	177830	3.108	ppbv	95
23) Vinyl Acetate	4.603	43	6068	0.040	ppbv #	81
25) Ethyl Acetate	5.201	43	110487	0.410	ppbv #	78
26) Hexane	5.201	57	156764	1.364	ppbv #	39
34) 2-Butanone	4.790	43	13220	0.089	ppbv #	54
35) Carbon Tetrachloride	6.471	117	4930	0.024	ppbv #	94
36) Benzene	6.352	78	23678	0.092	ppbv #	92
39) 1,2-Dichloropropane	6.639	63	761480	7.529	ppbv #	23
53) Toluene	9.204	91	15547	0.055	ppbv #	18
80) Naphthalene,2-methyl-	24.377	142	4807	0.145	ppbv #	42

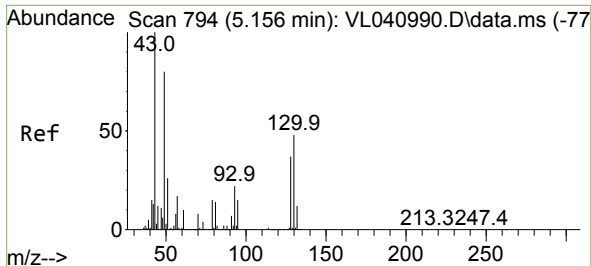
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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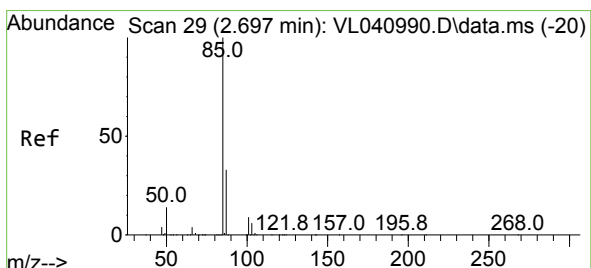
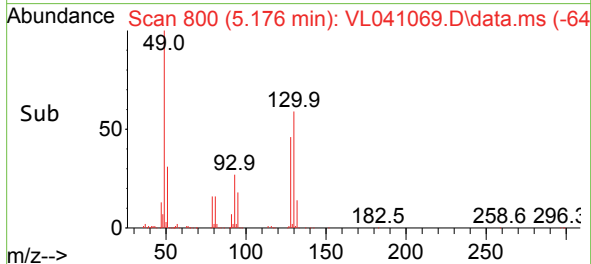
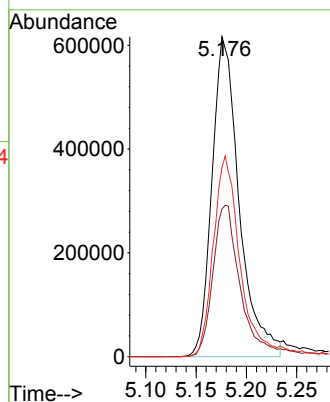
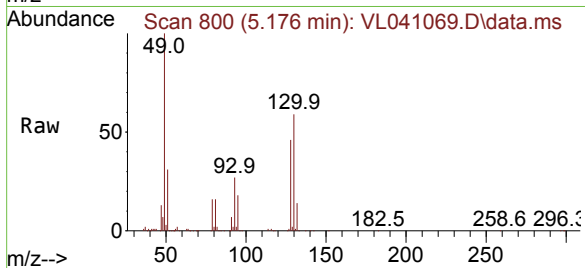




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.176 min Scan# 80
 Delta R.T. -0.000 min
 Lab File: VL041069.D
 Acq: 15 Feb 2024 13:30

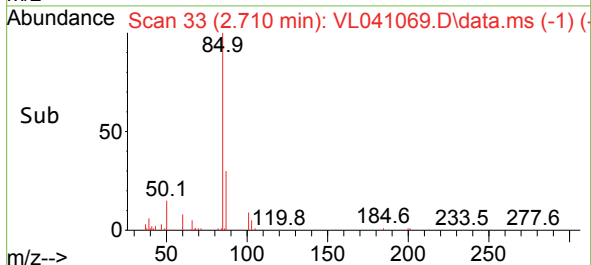
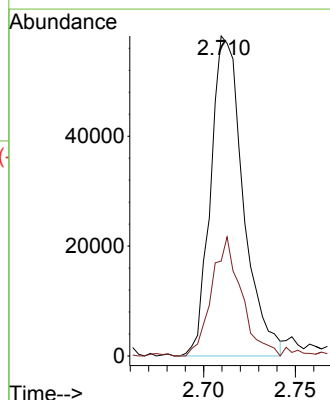
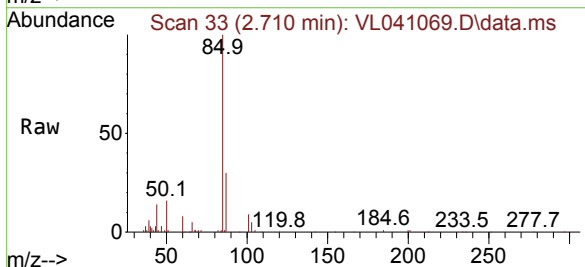
Instrument :
 MSVOA_L
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 OA1

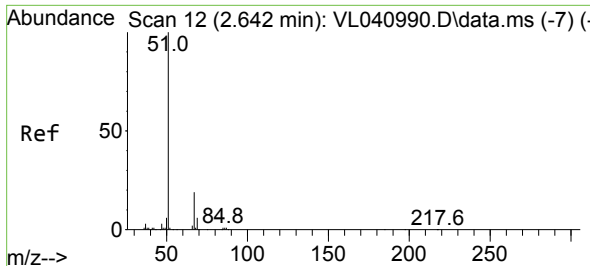
Tgt Ion: 49 Resp: 1162754
 Ion Ratio Lower Upper
 49 100
 128 50.6 23.9 71.7
 130 65.1 31.1 93.5



#2
 Dichlorodifluoromethane
 Concen: 0.280 ppbv
 RT: 2.710 min Scan# 33
 Delta R.T. 0.003 min
 Lab File: VL041069.D
 Acq: 15 Feb 2024 13:30

Tgt Ion: 85 Resp: 71822
 Ion Ratio Lower Upper
 85 100
 87 29.7 26.3 39.5

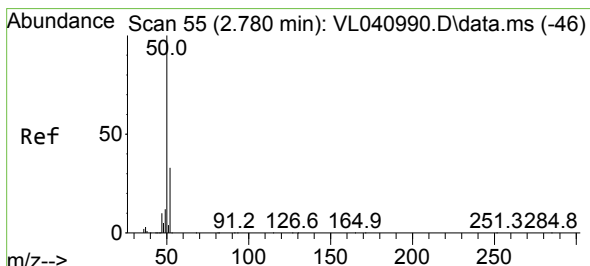
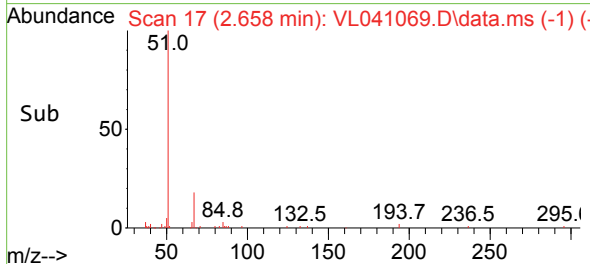
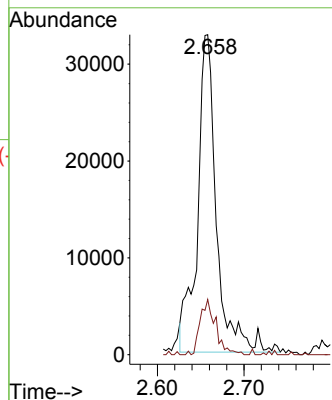
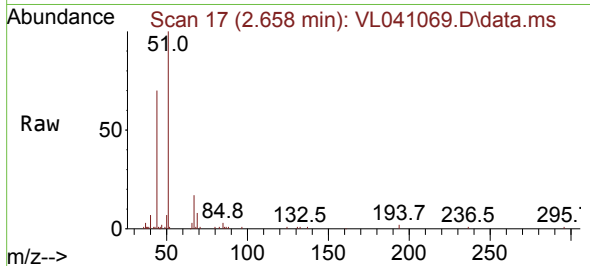




#3
Chlorodifluoromethane
Concen: 0.255 ppbv
RT: 2.658 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL041069.D
Acq: 15 Feb 2024 13:30

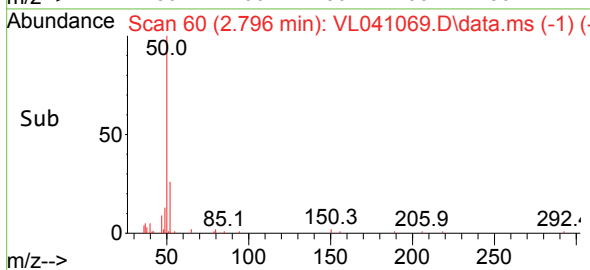
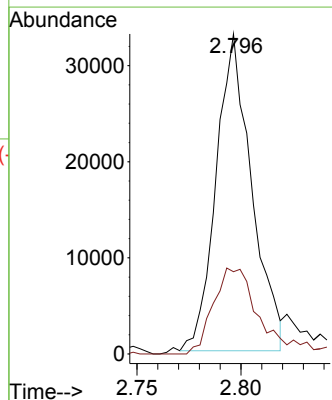
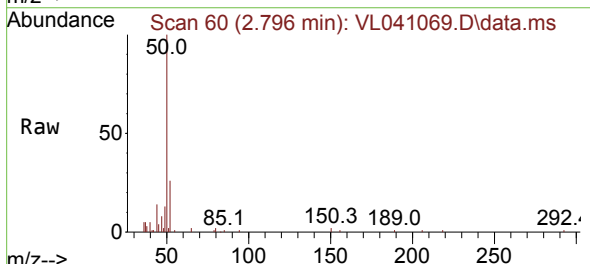
Instrument :
MSVOA_L
ClientSampleId :
OA1

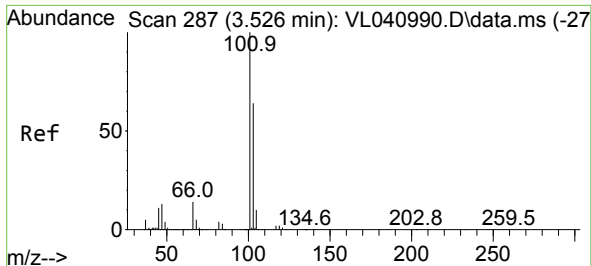
Tgt Ion: 51 Resp: 49923
Ion Ratio Lower Upper
51 100
67 14.7 14.8 22.2#



#4
Chloromethane
Concen: 0.535 ppbv
RT: 2.796 min Scan# 60
Delta R.T. 0.006 min
Lab File: VL041069.D
Acq: 15 Feb 2024 13:30

Tgt Ion: 50 Resp: 39200
Ion Ratio Lower Upper
50 100
52 25.9 26.2 39.4#

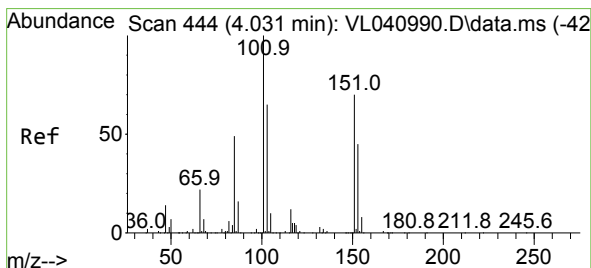
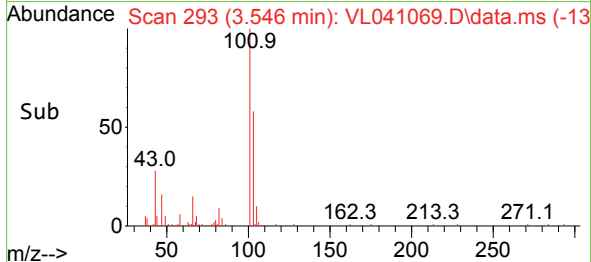
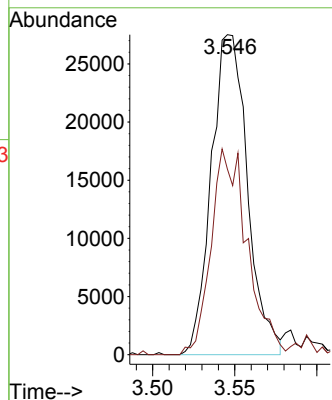
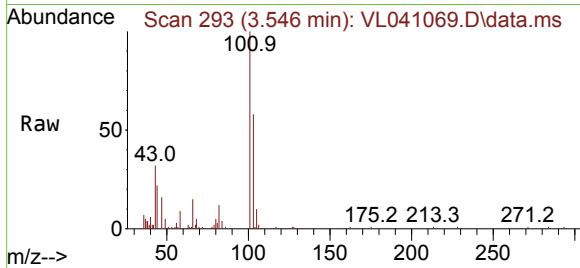




#11
 Trichlorofluoromethane
 Concen: 0.204 ppbv
 RT: 3.546 min Scan# 293
 Delta R.T. 0.003 min
 Lab File: VL041069.D
 Acq: 15 Feb 2024 13:30

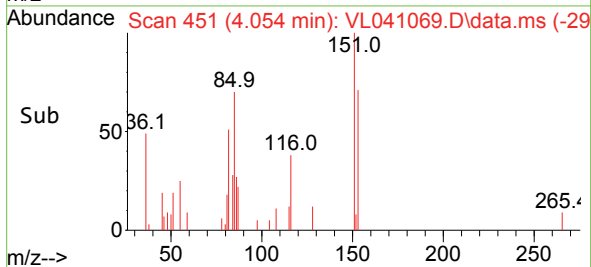
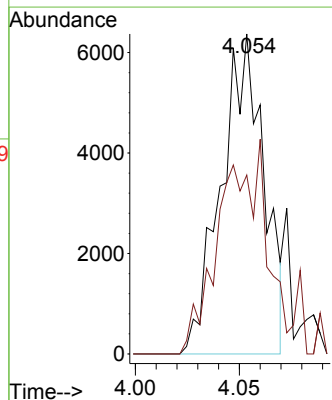
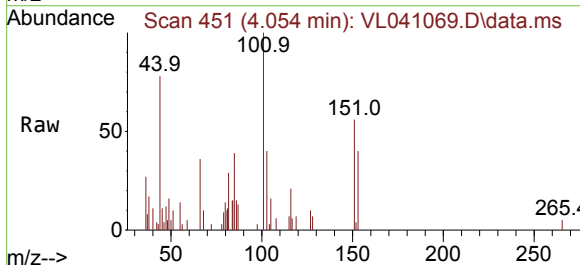
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

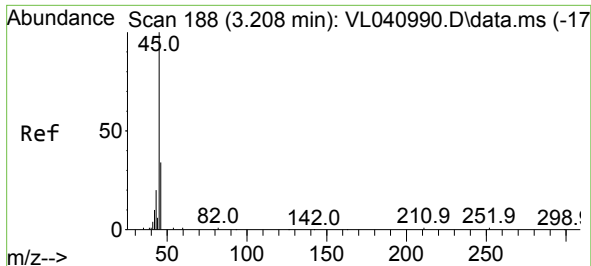
Tgt Ion:101 Resp: 42210
 Ion Ratio Lower Upper
 101 100
 103 58.0 51.4 77.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.060 ppbv
 RT: 4.054 min Scan# 451
 Delta R.T. 0.006 min
 Lab File: VL041069.D
 Acq: 15 Feb 2024 13:30

Tgt Ion:101 Resp: 9070
 Ion Ratio Lower Upper
 101 100
 151 78.6 56.6 85.0

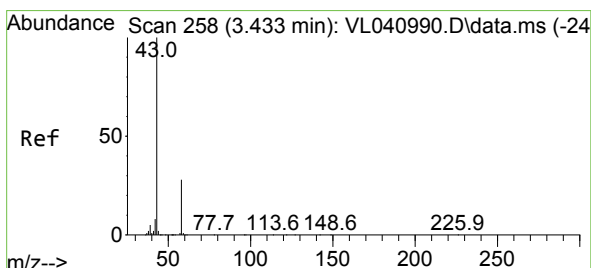
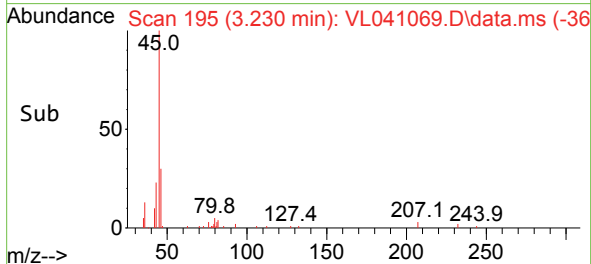
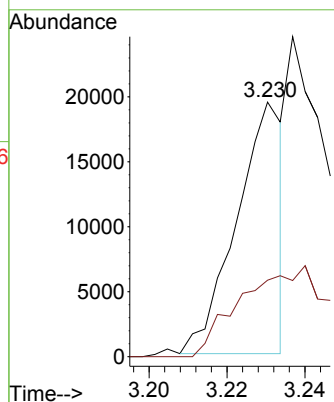
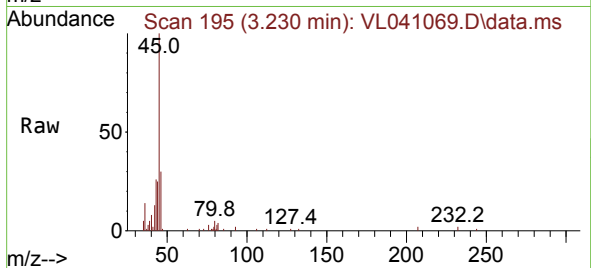




#13
Ethanol
Concen: 1.047 ppbv
RT: 3.230 min Scan# 195
Delta R.T. 0.013 min
Lab File: VL041069.D
Acq: 15 Feb 2024 13:30

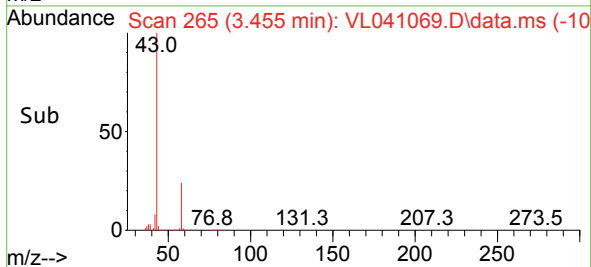
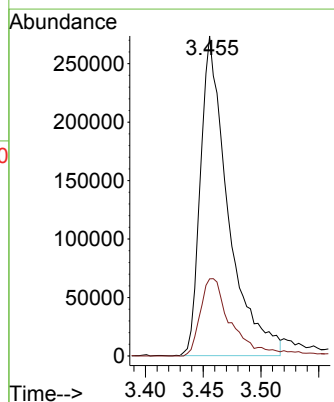
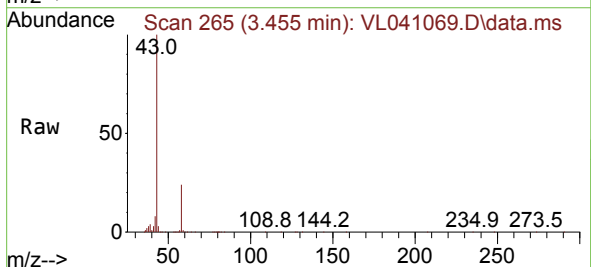
Instrument :
MSVOA_L
ClientSampleId :
OA1

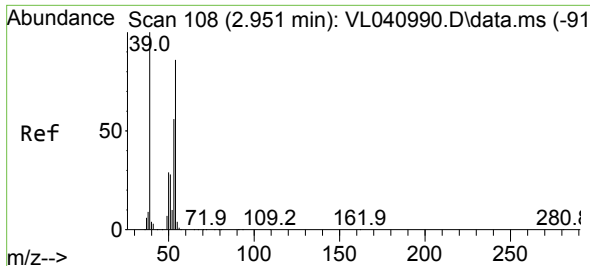
Tgt Ion: 45 Resp: 16003
Ion Ratio Lower Upper
45 100
46 0.0 16.2 64.8#



#15
Acetone
Concen: 3.059 ppbv
RT: 3.455 min Scan# 265
Delta R.T. 0.010 min
Lab File: VL041069.D
Acq: 15 Feb 2024 13:30

Tgt Ion: 43 Resp: 454821
Ion Ratio Lower Upper
43 100
58 28.5 22.2 33.2

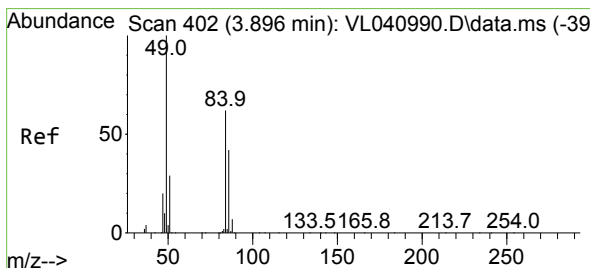
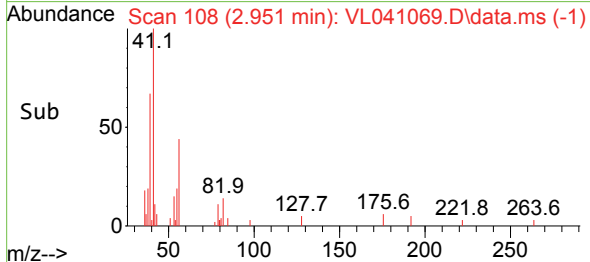
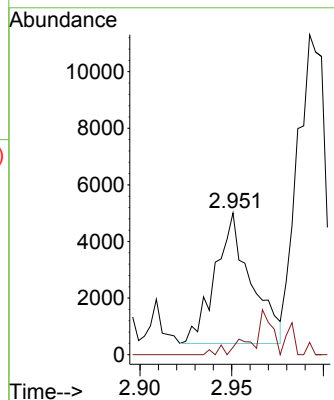
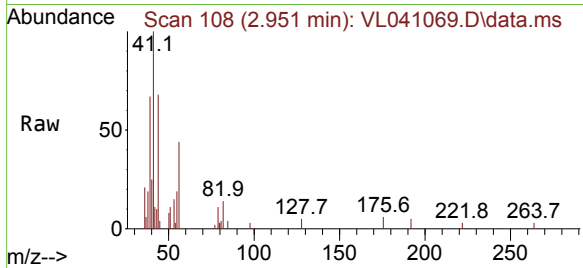




#16
1,3-Butadiene
Concen: 0.088 ppbv
RT: 2.951 min Scan# 108
Delta R.T. -0.013 min
Lab File: VL041069.D
Acq: 15 Feb 2024 13:30

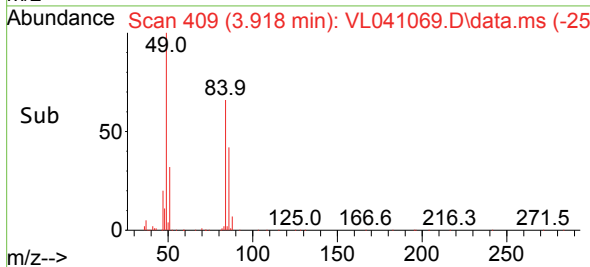
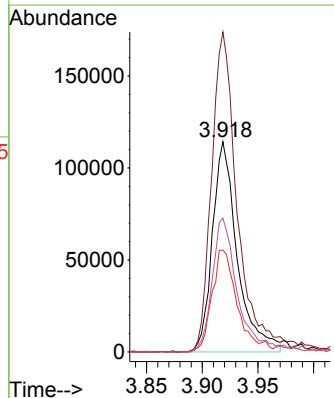
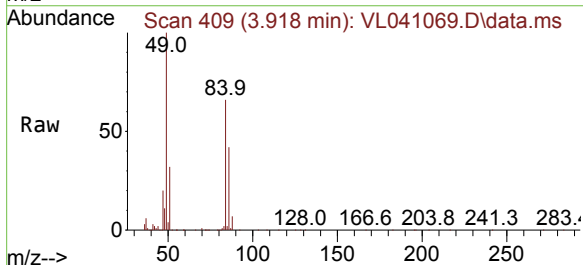
Instrument :
MSVOA_L
ClientSampleId :
OA1

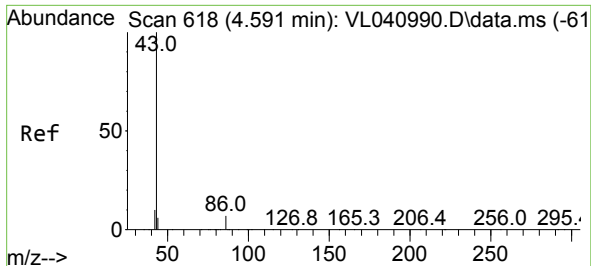
Tgt Ion: 39 Resp: 6273
Ion Ratio Lower Upper
39 100
54 25.5 62.7 94.1#



#20
Methylene Chloride
Concen: 3.108 ppbv
RT: 3.918 min Scan# 409
Delta R.T. 0.006 min
Lab File: VL041069.D
Acq: 15 Feb 2024 13:30

Tgt Ion: 84 Resp: 177830
Ion Ratio Lower Upper
84 100
49 152.2 128.1 192.1
51 48.5 36.5 54.7
86 63.6 54.1 81.1



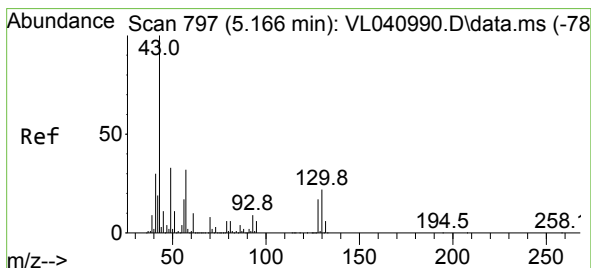
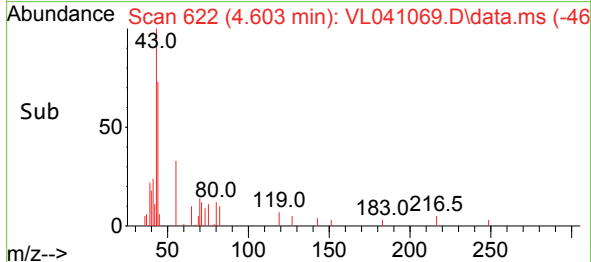
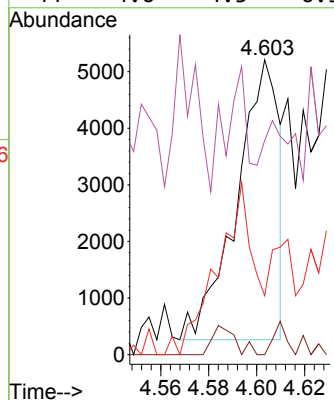
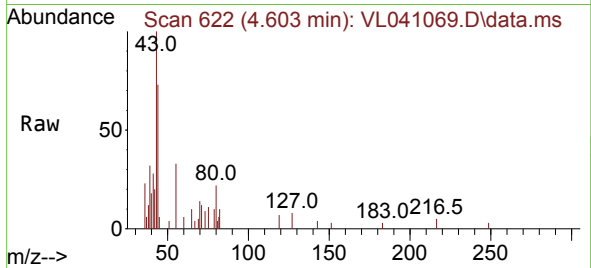


#23
Vinyl Acetate
Concen: 0.040 ppbv
RT: 4.603 min Scan# 618
Delta R.T. -0.003 min
Lab File: VL041069.D
Acq: 15 Feb 2024 13:30

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 43 Resp: 6068

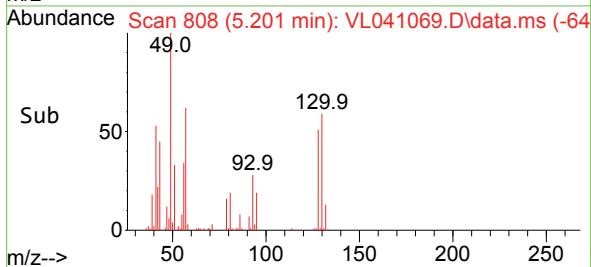
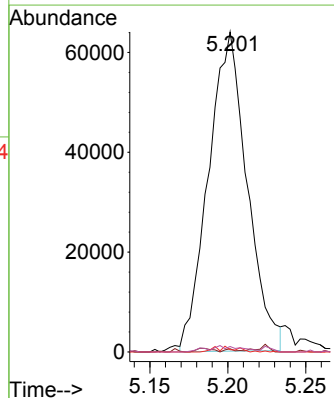
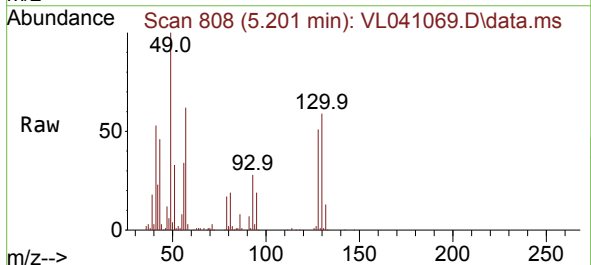
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.4	8.0#
42	21.1	8.6	13.0#
44	4.6	4.3	6.5

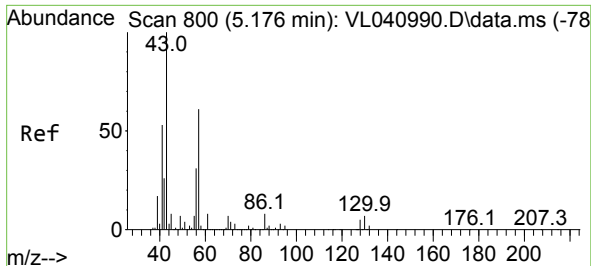


#25
Ethyl Acetate
Concen: 0.410 ppbv
RT: 5.201 min Scan# 808
Delta R.T. 0.016 min
Lab File: VL041069.D
Acq: 15 Feb 2024 13:30

Tgt Ion: 43 Resp: 110487

Ion	Ratio	Lower	Upper
43	100		
45	0.5	8.2	12.4#
61	1.0	7.9	11.9#
70	2.1	5.4	8.2#

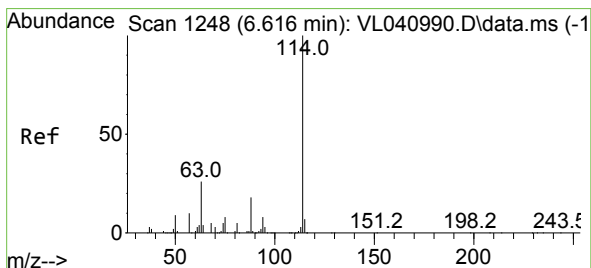
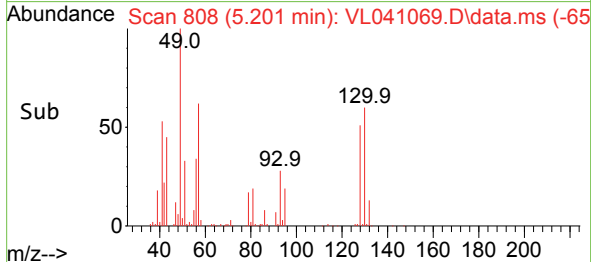
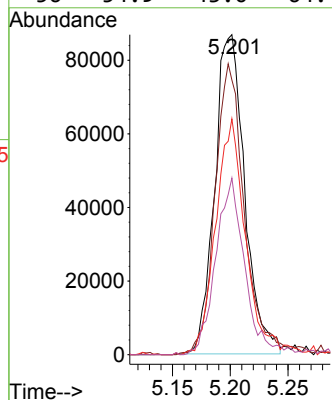
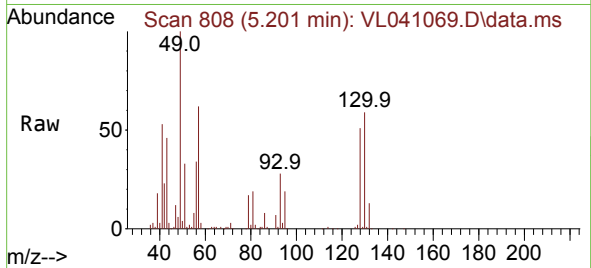




#26
Hexane
Concen: 1.364 ppbv
RT: 5.201 min Scan# 80
Delta R.T. 0.006 min
Lab File: VL041069.D
Acq: 15 Feb 2024 13:30

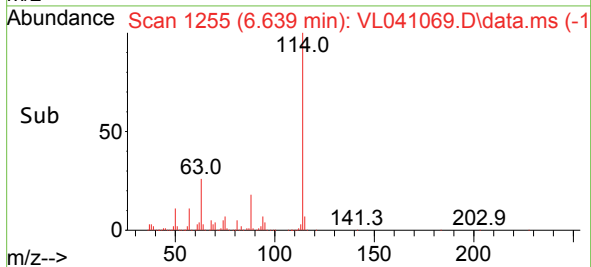
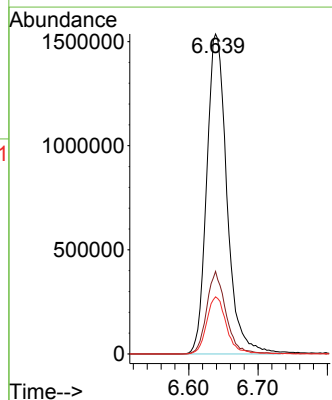
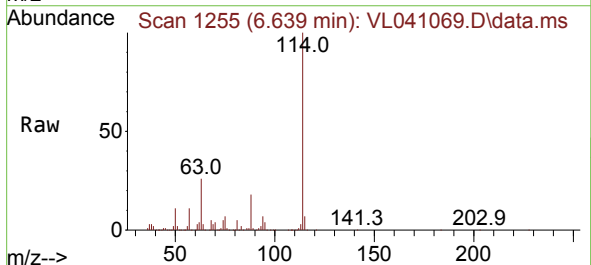
Instrument :
MSVOA_L
ClientSampleId :
OA1

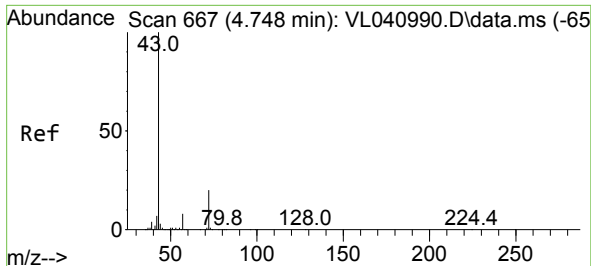
Tgt Ion: 57 Resp: 156764
Ion Ratio Lower Upper
57 100
41 90.8 74.4 111.6
43 74.2 190.6 285.8#
56 54.9 43.0 64.4



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.639 min Scan# 1255
Delta R.T. -0.000 min
Lab File: VL041069.D
Acq: 15 Feb 2024 13:30

Tgt Ion: 114 Resp: 3108520
Ion Ratio Lower Upper
114 100
63 24.7 20.8 31.2
88 17.6 14.3 21.5

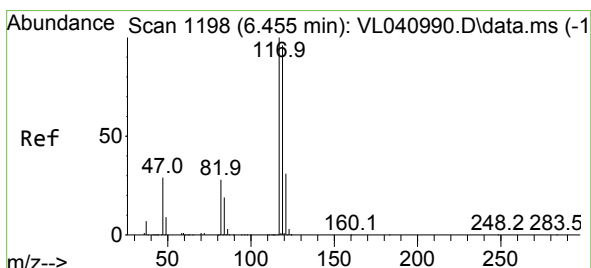
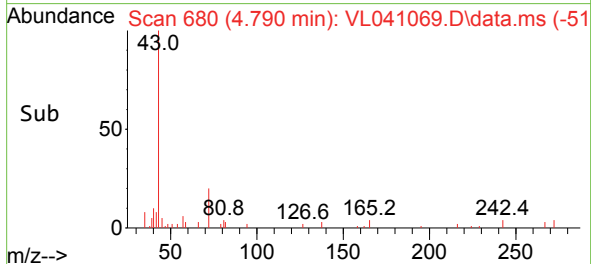
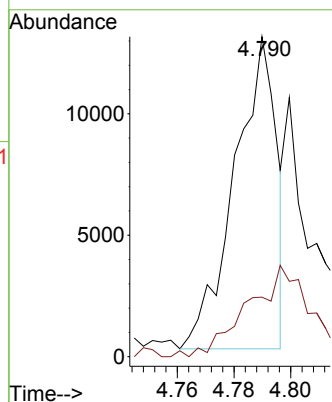
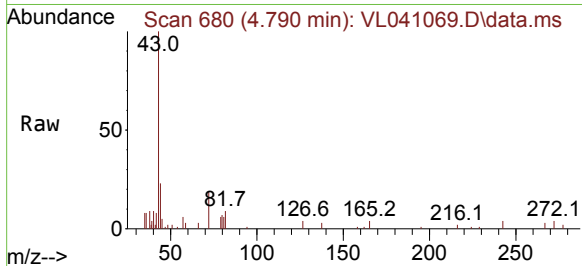




#34
2-Butanone
Concen: 0.089 ppbv
RT: 4.790 min Scan# 61
Delta R.T. 0.022 min
Lab File: VL041069.D
Acq: 15 Feb 2024 13:30

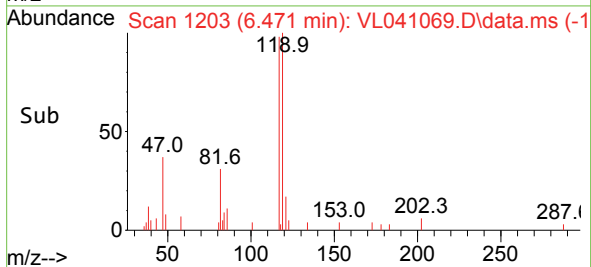
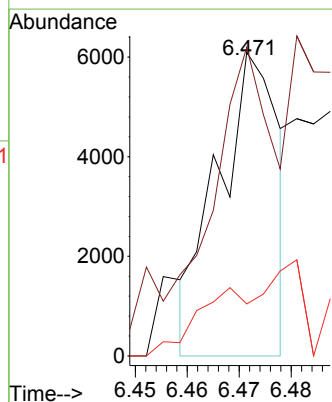
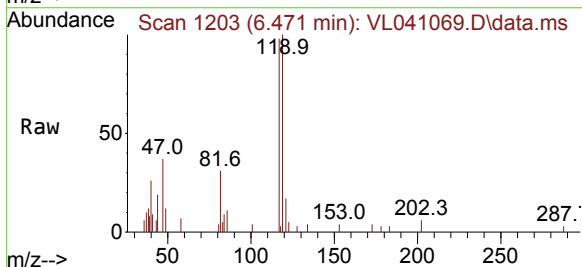
Instrument :
MSVOA_L
ClientSampleId :
OA1

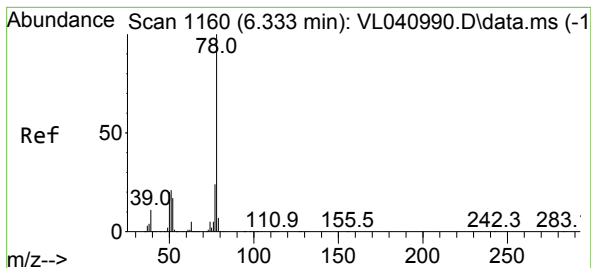
Tgt Ion: 43 Resp: 13220
Ion Ratio Lower Upper
43 100
72 0.0 17.5 26.3#



#35
Carbon Tetrachloride
Concen: 0.024 ppbv
RT: 6.471 min Scan# 1203
Delta R.T. -0.006 min
Lab File: VL041069.D
Acq: 15 Feb 2024 13:30

Tgt Ion: 117 Resp: 4930
Ion Ratio Lower Upper
117 100
119 96.1 76.9 115.3
121 16.3 24.7 37.1#





#36

Benzene

Concen: 0.092 ppbv

RT: 6.352 min Scan# 1166

Delta R.T. -0.003 min

Lab File: VL041069.D

Acq: 15 Feb 2024 13:30

Instrument :

MSVOA_L

ClientSampleId :

OA1

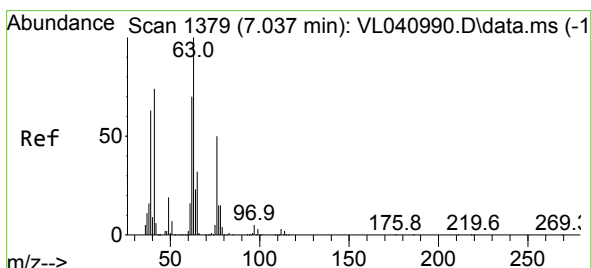
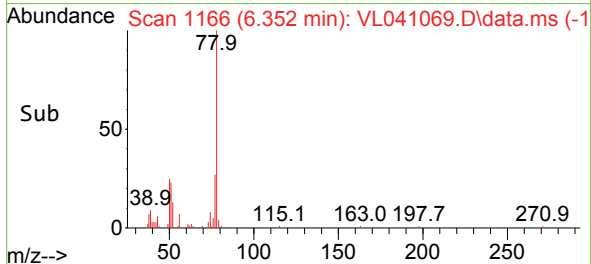
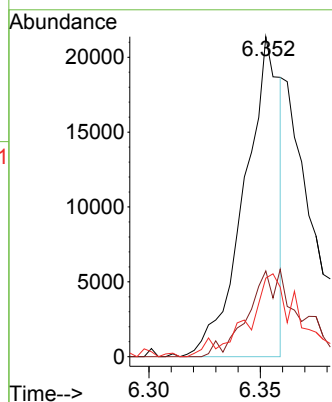
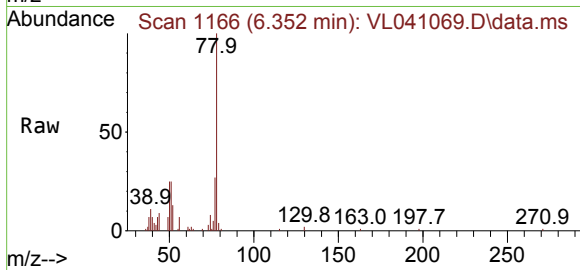
Tgt Ion: 78 Resp: 23678

Ion Ratio Lower Upper

78 100

77 26.8 19.0 28.4

50 24.6 15.8 23.6#



#39

1,2-Dichloropropane

Concen: 7.529 ppbv

RT: 6.639 min Scan# 1255

Delta R.T. -0.418 min

Lab File: VL041069.D

Acq: 15 Feb 2024 13:30

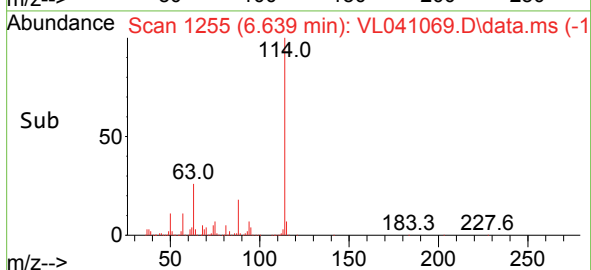
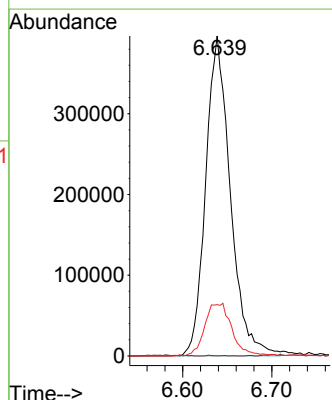
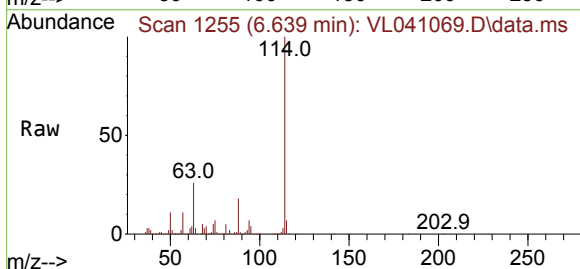
Tgt Ion: 63 Resp: 761480

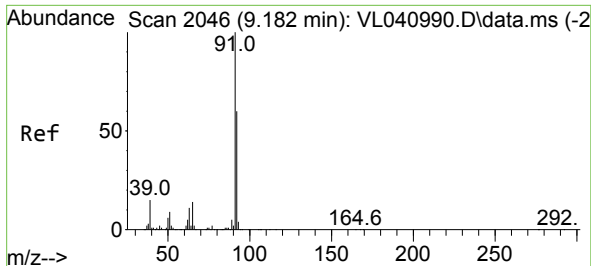
Ion Ratio Lower Upper

63 100

41 0.0 59.6 89.4#

62 15.9 55.6 83.4#

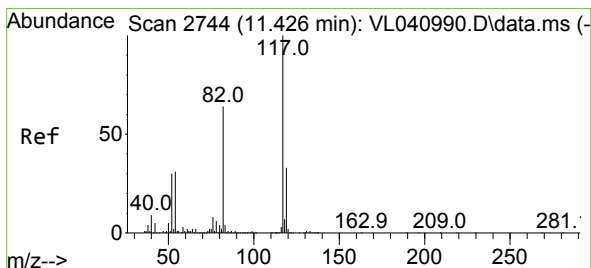
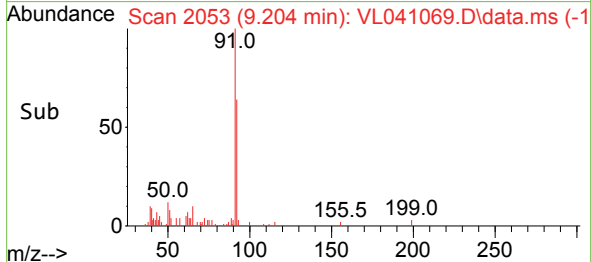
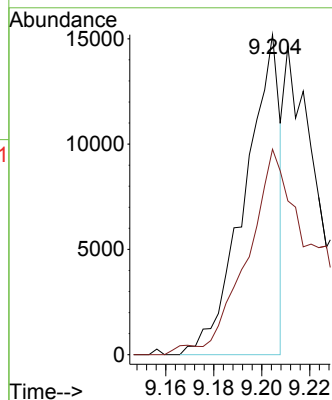
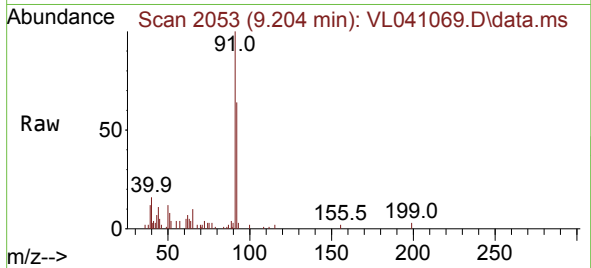




#53
Toluene
Concen: 0.055 ppbv
RT: 9.204 min Scan# 2046
Delta R.T. -0.000 min
Lab File: VL041069.D
Acq: 15 Feb 2024 13:30

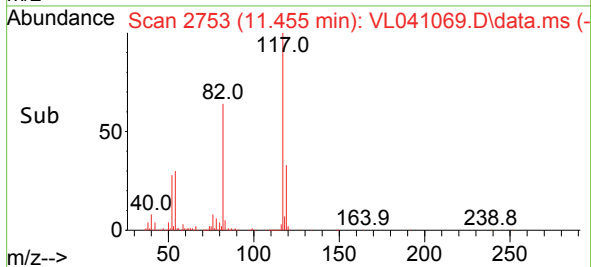
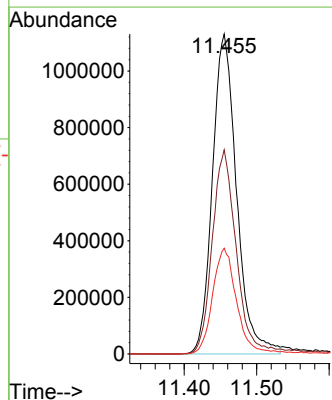
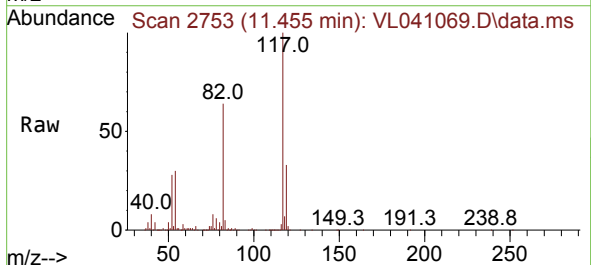
Instrument :
MSVOA_L
ClientSampleId :
OA1

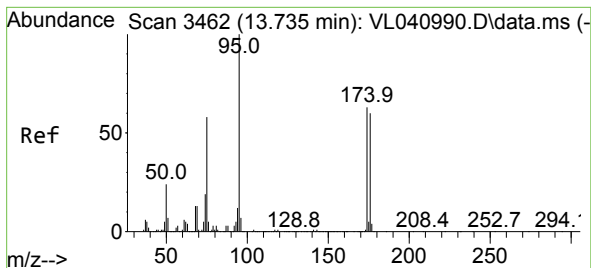
Tgt Ion: 91 Resp: 15547
Ion Ratio Lower Upper
91 100
92 123.1 48.6 72.8#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.455 min Scan# 2753
Delta R.T. 0.003 min
Lab File: VL041069.D
Acq: 15 Feb 2024 13:30

Tgt Ion: 117 Resp: 2619541
Ion Ratio Lower Upper
117 100
82 65.4 51.7 77.5
119 33.6 23.8 35.6





#68

1-Bromo-4-Fluorobenzene

Concen: 9.970 ppbv

RT: 13.767 min Scan# 3462

Delta R.T. 0.006 min

Lab File: VL041069.D

Acq: 15 Feb 2024 13:30

Instrument :

MSVOA_L

ClientSampleId :

OA1

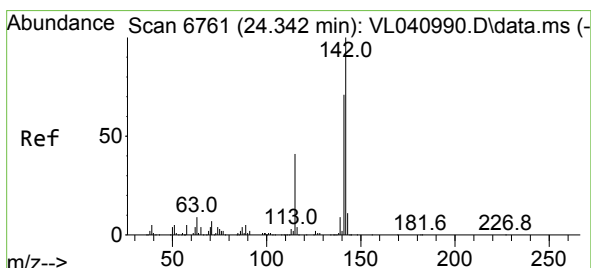
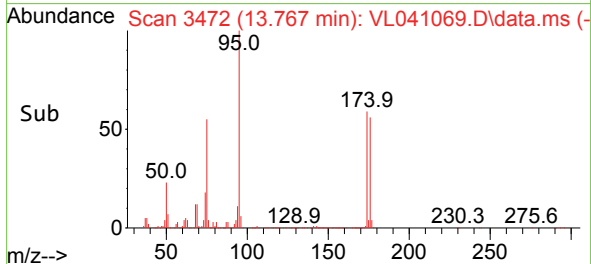
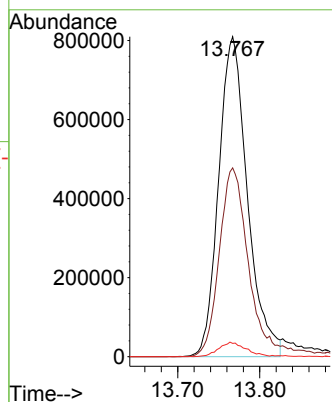
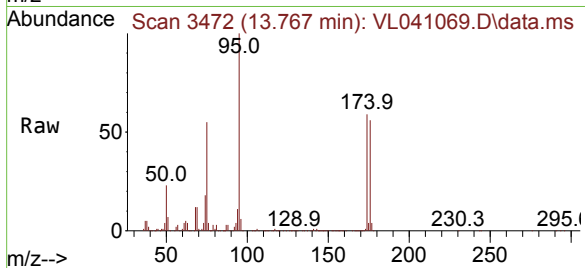
Tgt Ion: 95 Resp: 1972546

Ion Ratio Lower Upper

95 100

174 63.0 49.1 73.7

175 4.5 3.7 5.5



#80

Naphthalene,2-methyl-

Concen: 0.145 ppbv

RT: 24.377 min Scan# 6772

Delta R.T. 0.016 min

Lab File: VL041069.D

Acq: 15 Feb 2024 13:30

Tgt Ion:142 Resp: 4807

Ion Ratio Lower Upper

142 100

141 28.8 62.7 94.1#

115 3.8 34.0 51.0#

