

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL060424\
 Data File : VL041309.D
 Acq On : 4 Jun 2024 17:24
 Operator : SY/MD
 Sample : P2673-06
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOC-4-AMBIENT

Quant Time: Jun 05 05:28:38 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL060424AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Jun 05 04:42:10 2024
 Response via : Initial Calibration

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

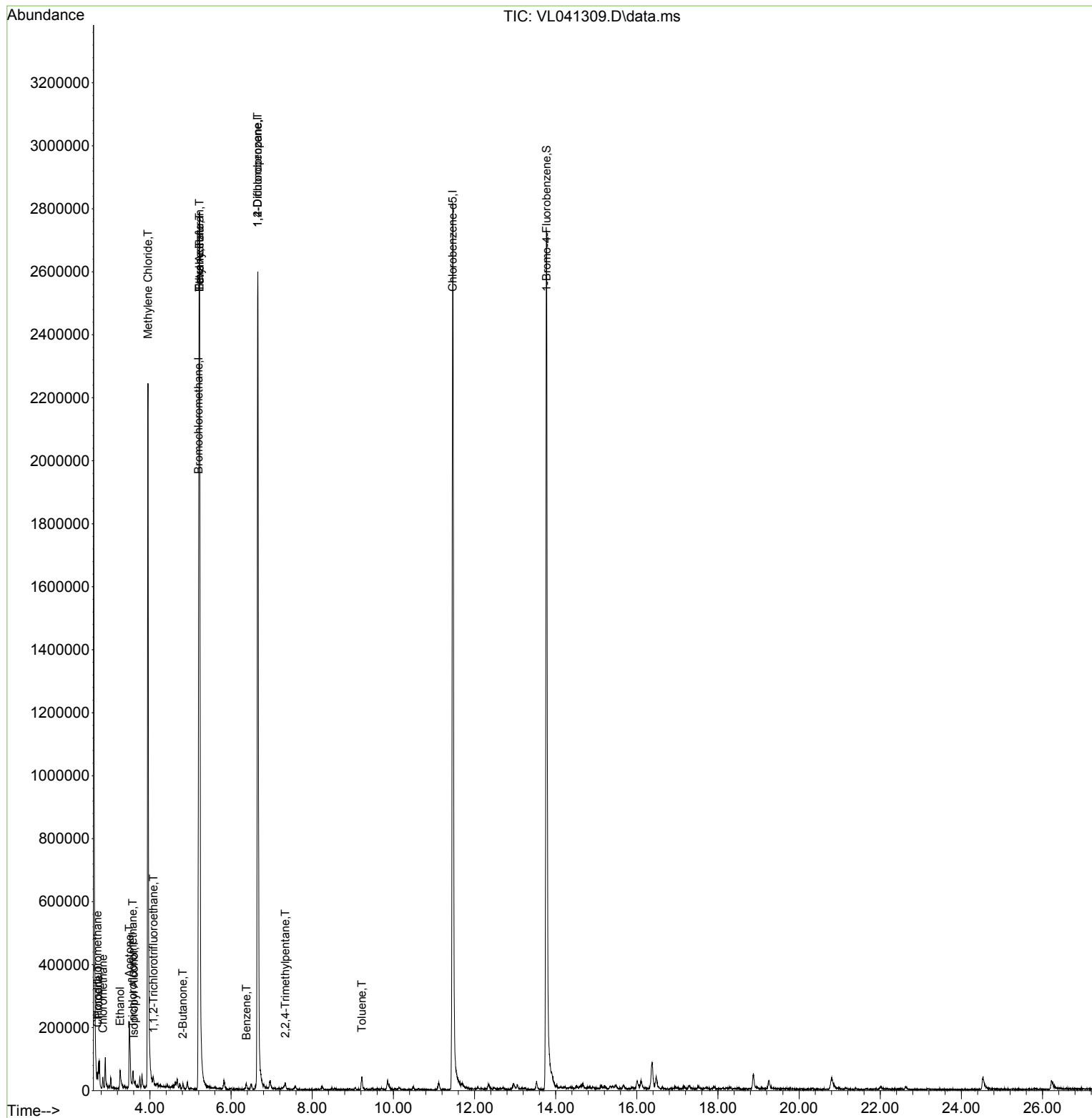
Internal Standards						
1) Bromochloromethane	5.201	49	763029	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	1952702	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	1862119	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.773	95	1377147	9.579	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.800%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	2.703	51	34600	0.287	ppbv	96
4) Chloromethane	2.841	50	25909	0.571	ppbv	100
9) Propene	2.729	41	13065	0.304	ppbv	90
11) Trichlorofluoromethane	3.578	101	13784	0.123	ppbv	90
12) 1,1,2-Trichlorotrifluo...	4.086	101	6021	0.076	ppbv	84
13) Ethanol	3.266	45	30209	2.704	ppbv #	17
15) Acetone	3.494	43	236712	2.717	ppbv	98
19) Isopropyl Alcohol	3.607	45	4596	0.084	ppbv #	1
20) Methylene Chloride	3.951	84	723554	22.850	ppbv	99
25) Ethyl Acetate	5.224	43	665257	3.860	ppbv #	77
26) Hexane	5.224	57	934083	12.052	ppbv #	41
34) 2-Butanone	4.812	43	17459	0.187	ppbv #	78
36) Benzene	6.378	78	9668	0.064	ppbv #	88
39) 1,2-Dichloropropane	6.658	63	484349	8.037	ppbv #	25
41) Tetrahydrofuran	5.224	42	355666	5.843	ppbv #	50
44) 2,2,4-Trimethylpentane	7.336	57	8174	0.031	ppbv #	29
53) Toluene	9.224	91	25655	0.147	ppbv	90

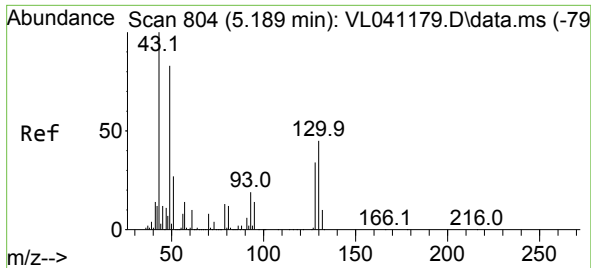
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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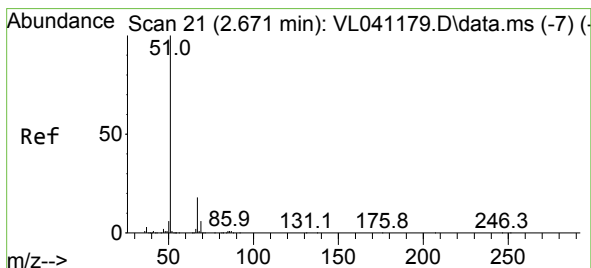
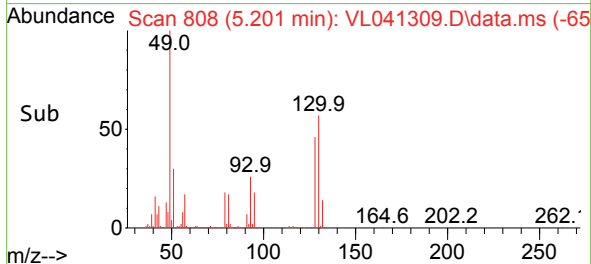
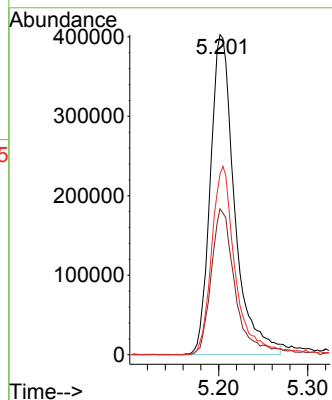
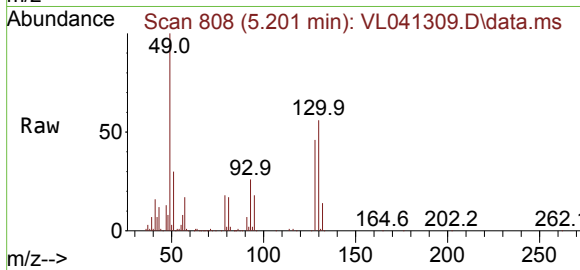




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.201 min Scan# 80
 Delta R.T. -0.004 min
 Lab File: VL041309.D
 Acq: 4 Jun 2024 17:24

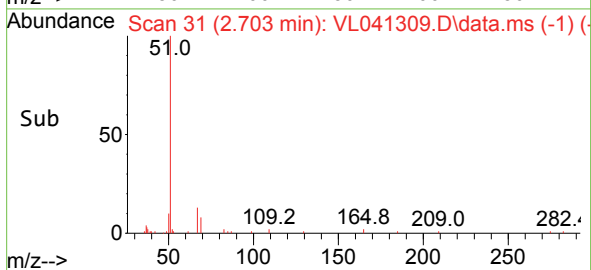
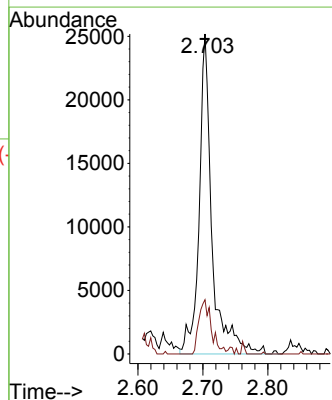
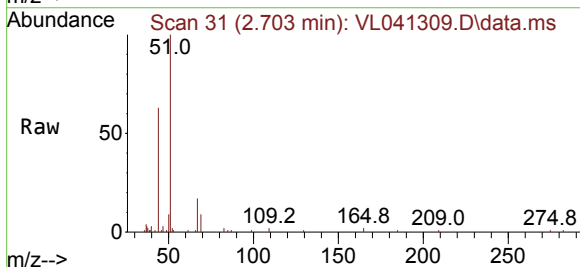
Instrument :
 MSVOA_L
 ClientSampleId :
 LOC-4-AMBIENT

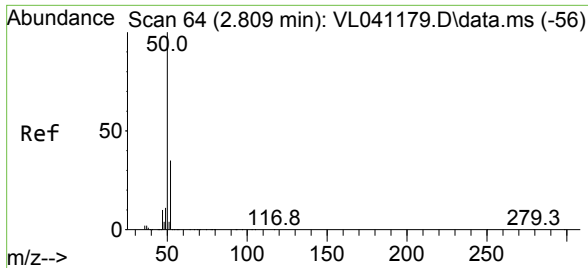
Tgt Ion: 49 Resp: 763029
 Ion Ratio Lower Upper
 49 100
 128 46.0 22.8 68.3
 130 60.3 28.4 85.3



#3
 Chlorodifluoromethane
 Concen: 0.287 ppbv
 RT: 2.703 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: VL041309.D
 Acq: 4 Jun 2024 17:24

Tgt Ion: 51 Resp: 34600
 Ion Ratio Lower Upper
 51 100
 67 16.5 14.7 22.1

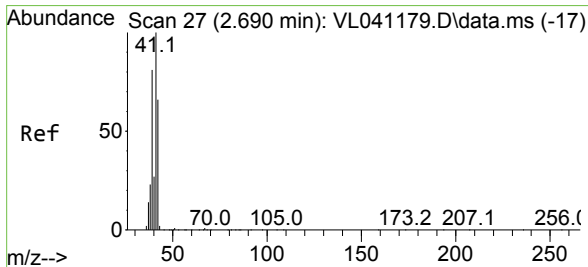
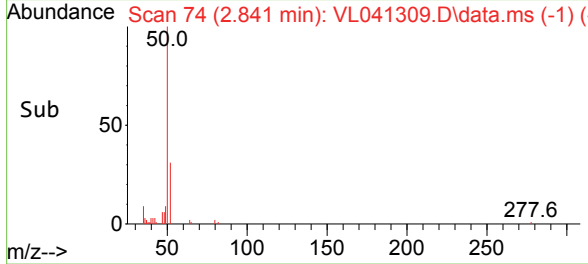
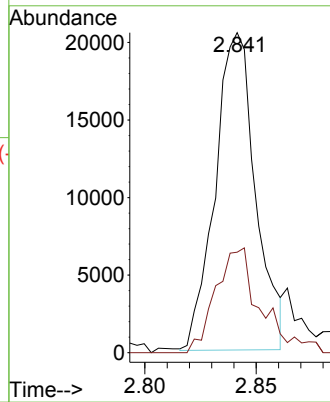
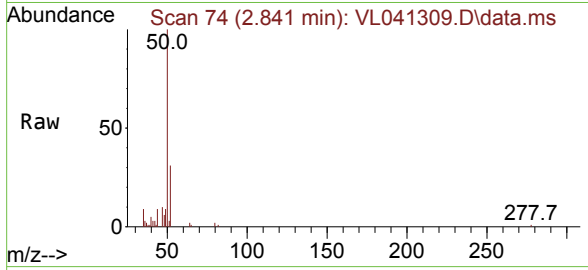




#4
Chloromethane
Concen: 0.571 ppbv
RT: 2.841 min Scan# 74
Delta R.T. 0.003 min
Lab File: VL041309.D
Acq: 4 Jun 2024 17:24

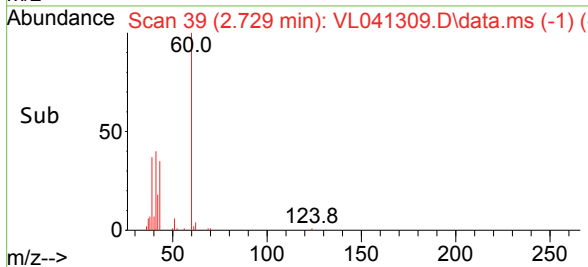
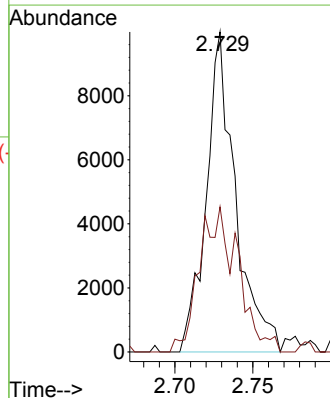
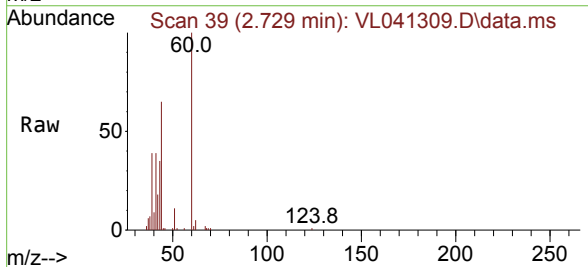
Instrument :
MSVOA_L
ClientSampleId :
LOC-4-AMBIENT

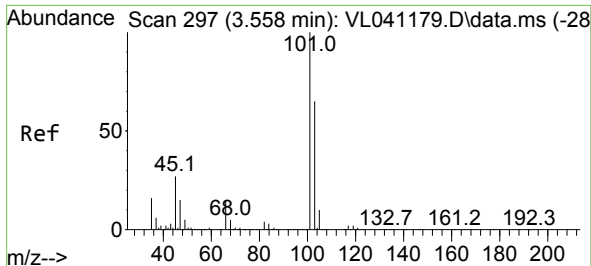
Tgt Ion: 50 Resp: 25909
Ion Ratio Lower Upper
50 100
52 31.8 25.6 38.4



#9
Propene
Concen: 0.304 ppbv
RT: 2.729 min Scan# 39
Delta R.T. 0.006 min
Lab File: VL041309.D
Acq: 4 Jun 2024 17:24

Tgt Ion: 41 Resp: 13065
Ion Ratio Lower Upper
41 100
42 61.1 55.2 82.8

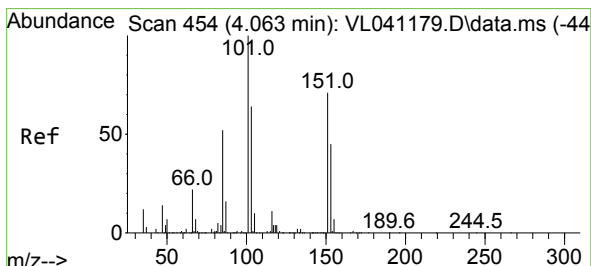
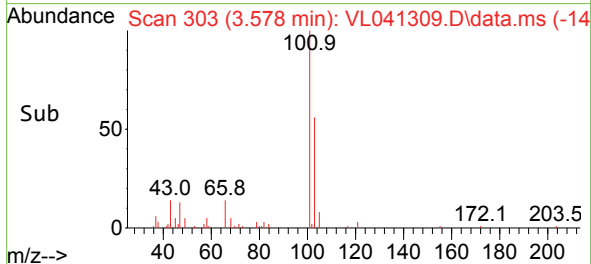
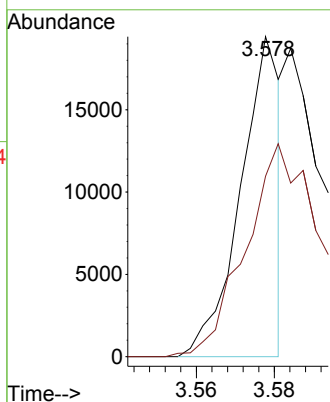
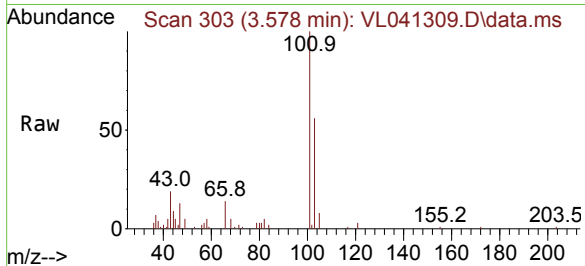




#11
 Trichlorofluoromethane
 Concen: 0.123 ppbv
 RT: 3.578 min Scan# 301
 Delta R.T. -0.006 min
 Lab File: VL041309.D
 Acq: 4 Jun 2024 17:24

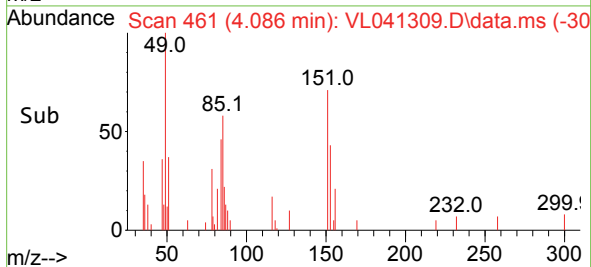
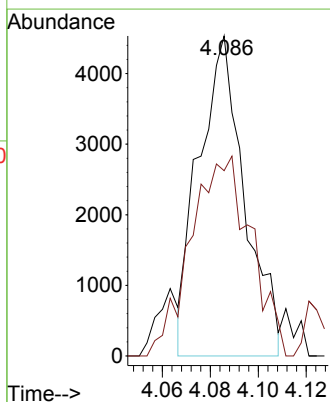
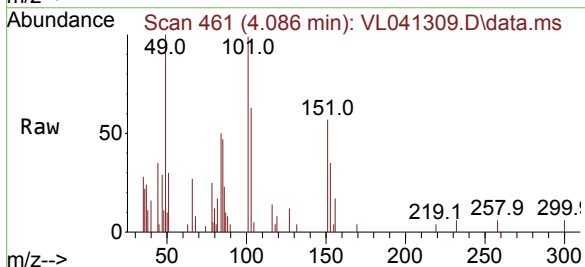
Instrument :
 MSVOA_L
 ClientSampleId :
 LOC-4-AMBIENT

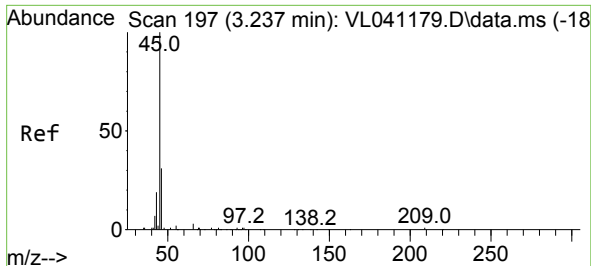
Tgt Ion:101 Resp: 13784
 Ion Ratio Lower Upper
 101 100
 103 55.3 50.6 76.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.076 ppbv
 RT: 4.086 min Scan# 461
 Delta R.T. 0.003 min
 Lab File: VL041309.D
 Acq: 4 Jun 2024 17:24

Tgt Ion:101 Resp: 6021
 Ion Ratio Lower Upper
 101 100
 151 81.8 54.8 82.2

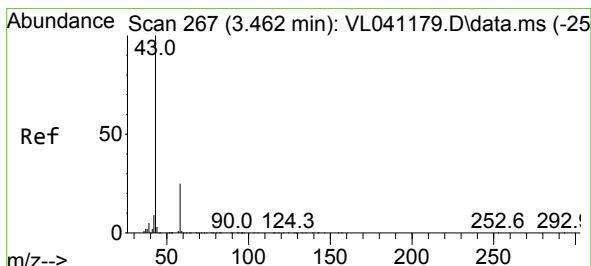
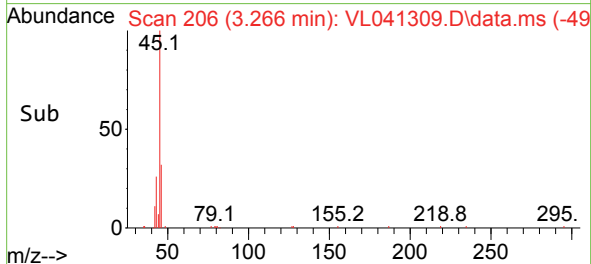
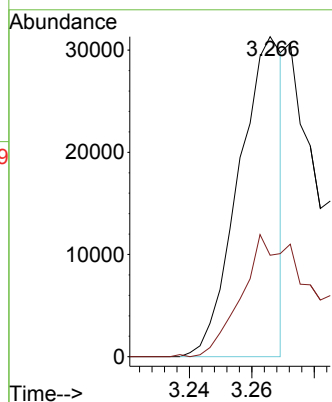
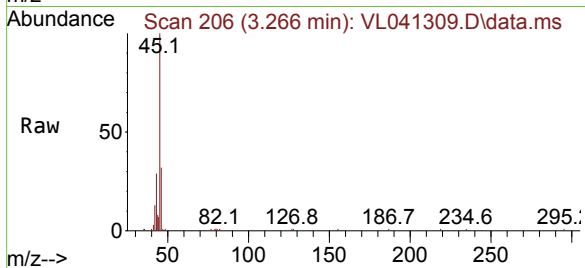




#13
Ethanol
Concen: 2.704 ppbv
RT: 3.266 min Scan# 206
Delta R.T. 0.003 min
Lab File: VL041309.D
Acq: 4 Jun 2024 17:24

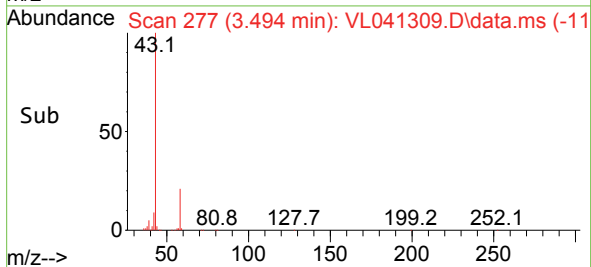
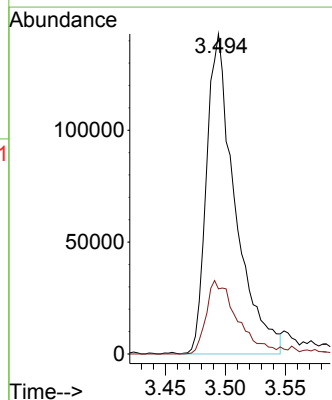
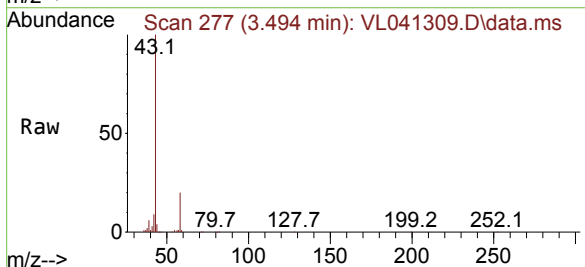
Instrument :
MSVOA_L
ClientSampleId :
LOC-4-AMBIENT

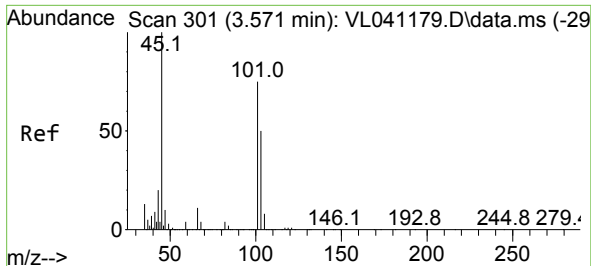
Tgt Ion: 45 Resp: 30209
Ion Ratio Lower Upper
45 100
46 83.9 14.2 56.6#



#15
Acetone
Concen: 2.717 ppbv
RT: 3.494 min Scan# 277
Delta R.T. 0.006 min
Lab File: VL041309.D
Acq: 4 Jun 2024 17:24

Tgt Ion: 43 Resp: 236712
Ion Ratio Lower Upper
43 100
58 26.8 20.6 31.0

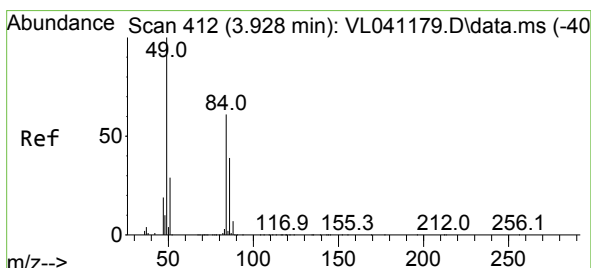
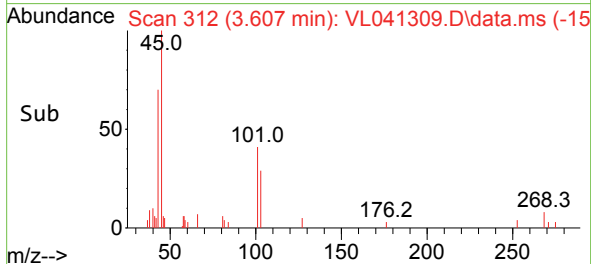
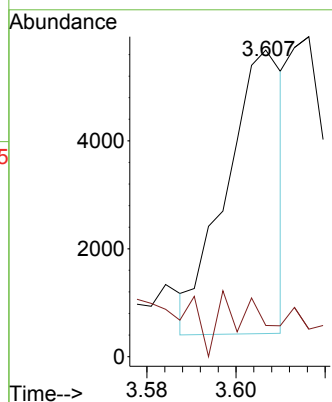
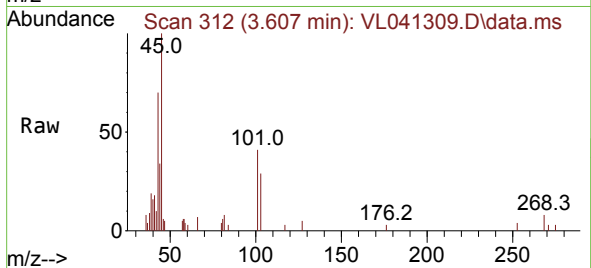




#19
Isopropyl Alcohol
Concen: 0.084 ppbv
RT: 3.607 min Scan# 312
Delta R.T. 0.013 min
Lab File: VL041309.D
Acq: 4 Jun 2024 17:24

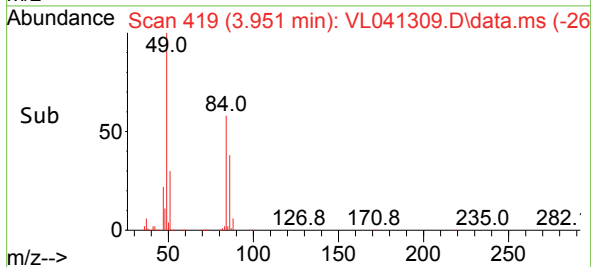
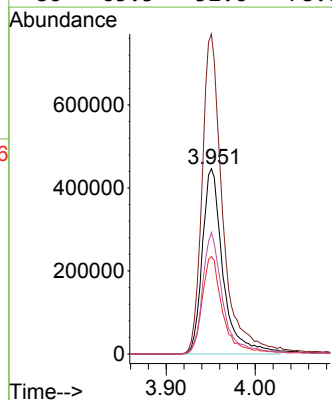
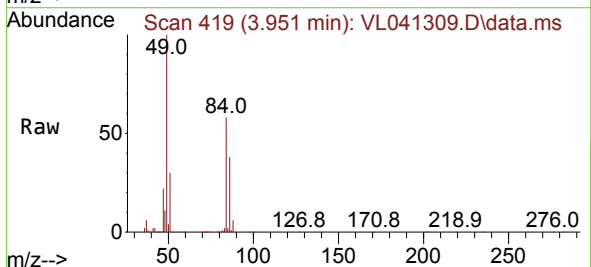
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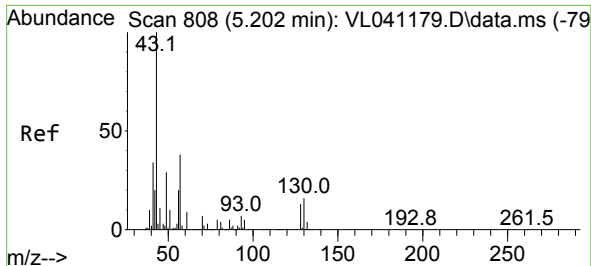
Tgt Ion: 45 Resp: 4596
Ion Ratio Lower Upper
45 100
58 47.0 1.4 2.2#



#20
Methylene Chloride
Concen: 22.850 ppbv
RT: 3.951 min Scan# 419
Delta R.T. 0.000 min
Lab File: VL041309.D
Acq: 4 Jun 2024 17:24

Tgt Ion: 84 Resp: 723554
Ion Ratio Lower Upper
84 100
49 172.6 136.2 204.2
51 52.6 41.9 62.9
86 65.5 52.6 78.8

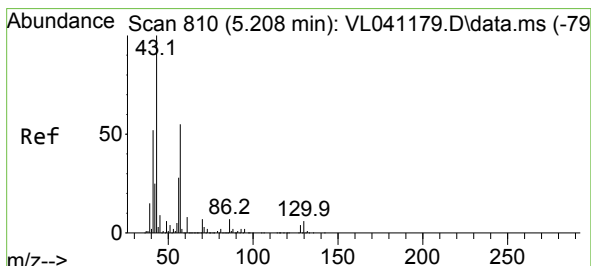
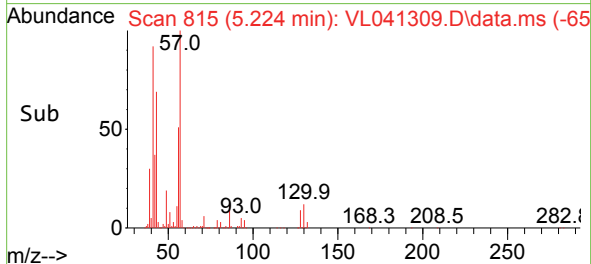
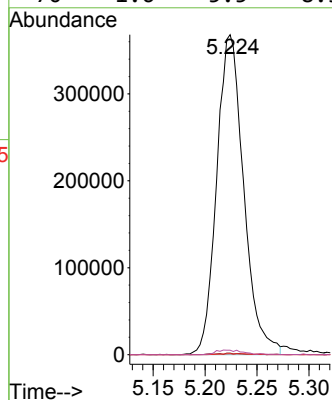
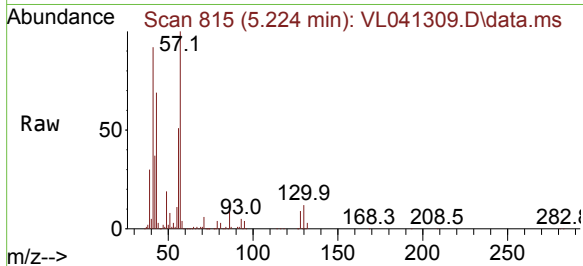




#25
Ethyl Acetate
Concen: 3.860 ppbv
RT: 5.224 min Scan# 815
Delta R.T. 0.010 min
Lab File: VL041309.D
Acq: 4 Jun 2024 17:24

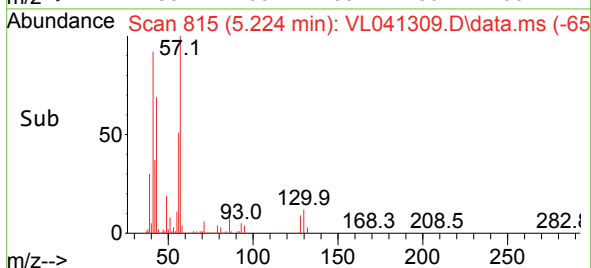
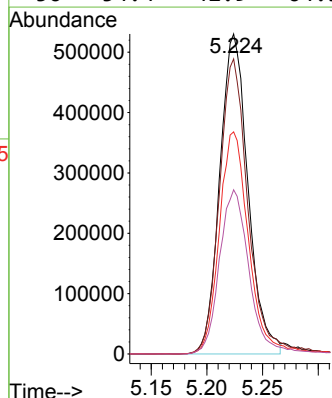
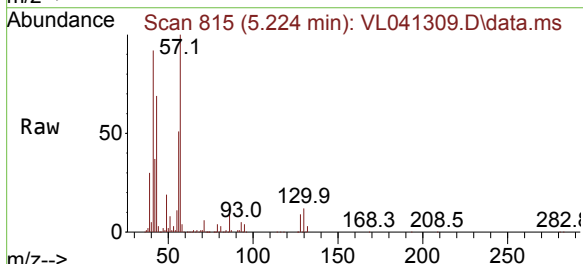
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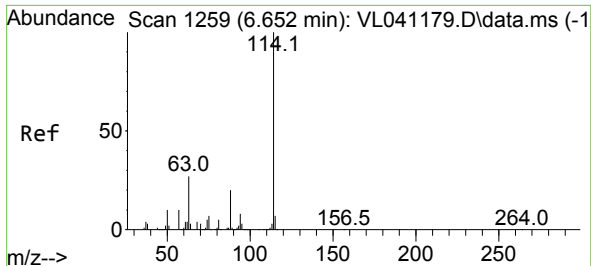
Tgt Ion: 43 Resp: 665257
Ion Ratio Lower Upper
43 100
45 0.5 8.1 12.1#
61 0.3 7.4 11.0#
70 1.6 5.5 8.3#



#26
Hexane
Concen: 12.052 ppbv
RT: 5.224 min Scan# 815
Delta R.T. 0.003 min
Lab File: VL041309.D
Acq: 4 Jun 2024 17:24

Tgt Ion: 57 Resp: 934083
Ion Ratio Lower Upper
57 100
41 95.1 77.1 115.7
43 73.0 186.1 279.1#
56 54.4 42.9 64.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.658 min Scan# 1

Delta R.T. 0.000 min

Lab File: VL041309.D

Acq: 4 Jun 2024 17:24

Instrument :

MSVOA_L

ClientSampleId :

LOC-4-AMBIENT

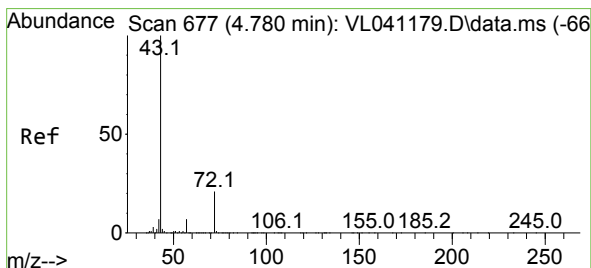
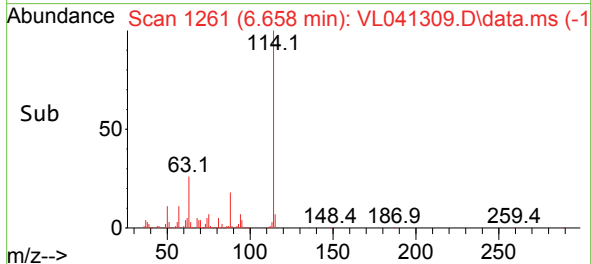
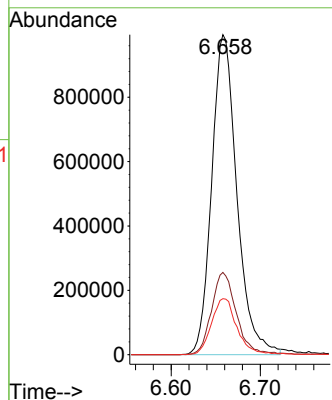
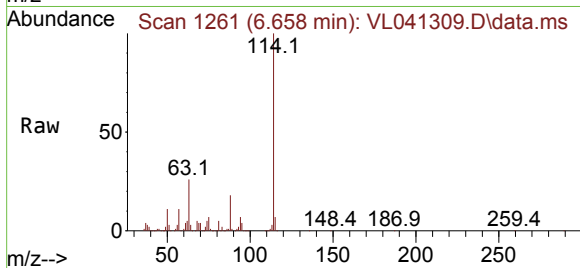
Tgt Ion:114 Resp: 1952702

Ion Ratio Lower Upper

114 100

63 25.8 20.6 30.8

88 18.1 14.5 21.7



#34

2-Butanone

Concen: 0.187 ppbv

RT: 4.812 min Scan# 687

Delta R.T. 0.016 min

Lab File: VL041309.D

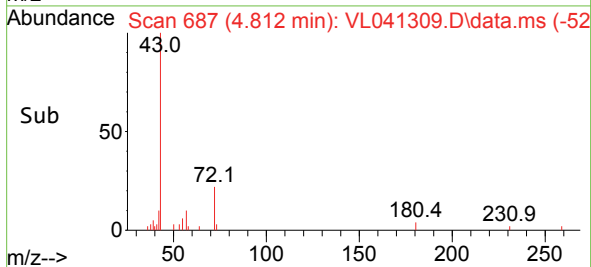
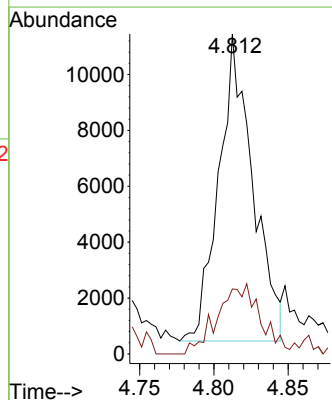
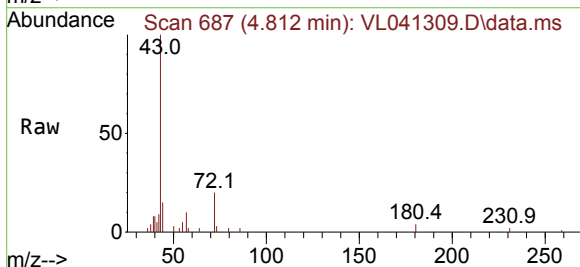
Acq: 4 Jun 2024 17:24

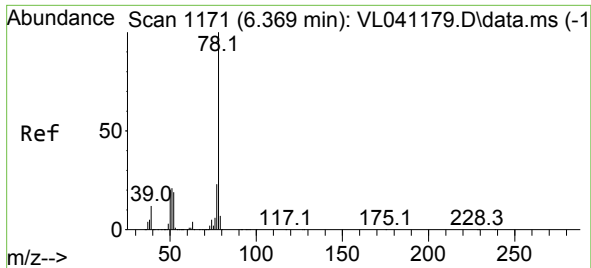
Tgt Ion: 43 Resp: 17459

Ion Ratio Lower Upper

43 100

72 32.0 17.4 26.0#





#36

Benzene

Concen: 0.064 ppbv

RT: 6.378 min Scan# 1171

Delta R.T. 0.000 min

Lab File: VL041309.D

Acq: 4 Jun 2024 17:24

Instrument :

MSVOA_L

ClientSampleId :

LOC-4-AMBIENT

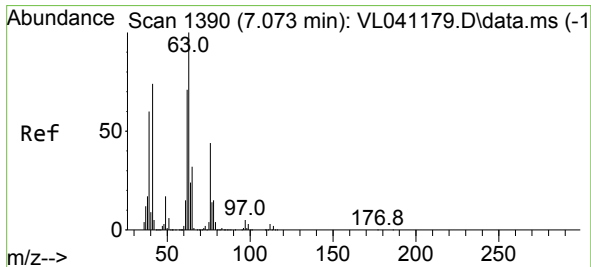
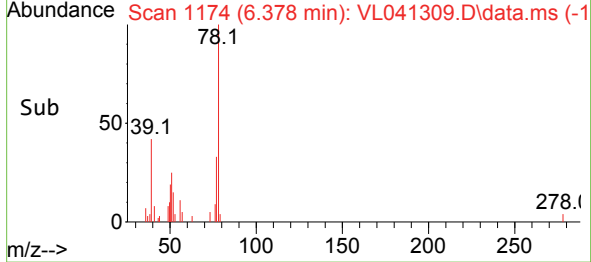
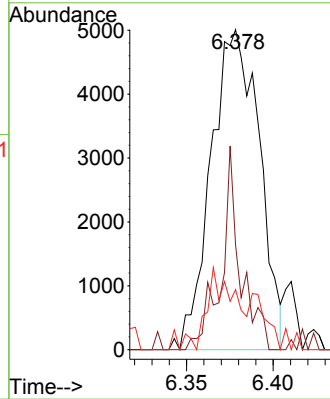
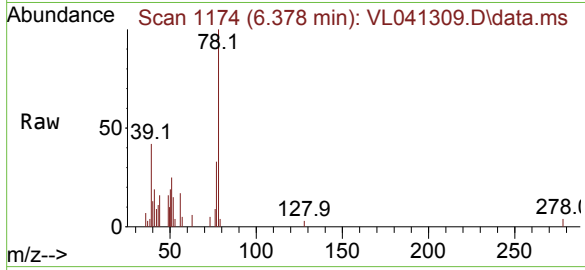
Tgt Ion: 78 Resp: 9668

Ion Ratio Lower Upper

78 100

77 32.8 18.6 28.0#

50 18.7 16.0 24.0



#39

1,2-Dichloropropane

Concen: 8.037 ppbv

RT: 6.658 min Scan# 1261

Delta R.T. -0.421 min

Lab File: VL041309.D

Acq: 4 Jun 2024 17:24

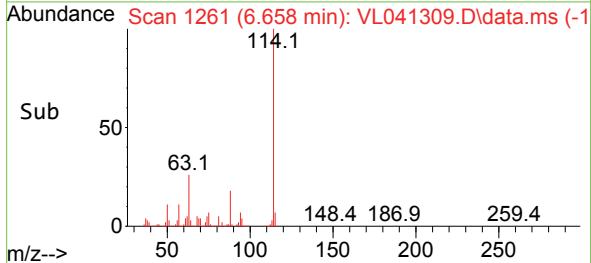
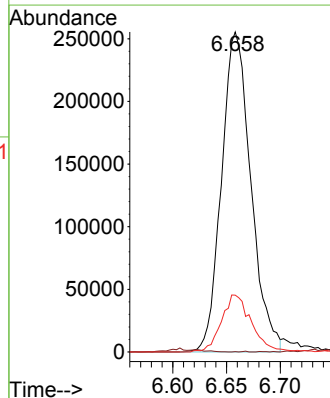
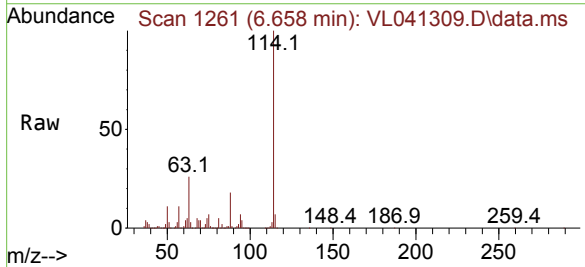
Tgt Ion: 63 Resp: 484349

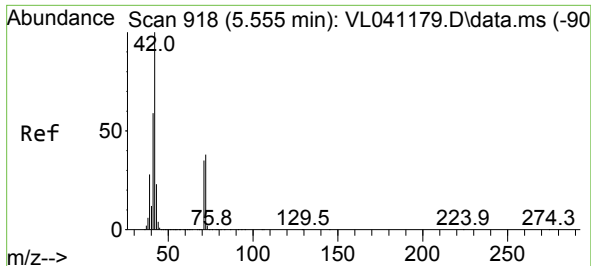
Ion Ratio Lower Upper

63 100

41 0.1 59.9 89.9#

62 17.7 53.8 80.6#





#41

Tetrahydrofuran

Concen: 5.843 ppbv

RT: 5.224 min Scan# 81

Delta R.T. -0.341 min

Lab File: VL041309.D

Acq: 4 Jun 2024 17:24

Instrument :

MSVOA_L

ClientSampleId :

LOC-4-AMBIENT

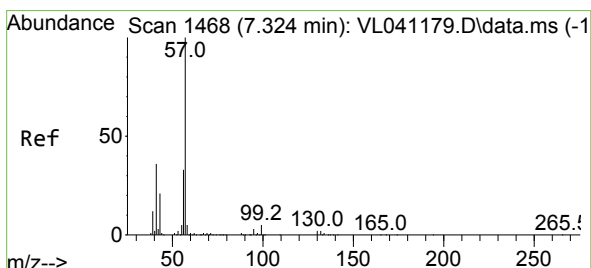
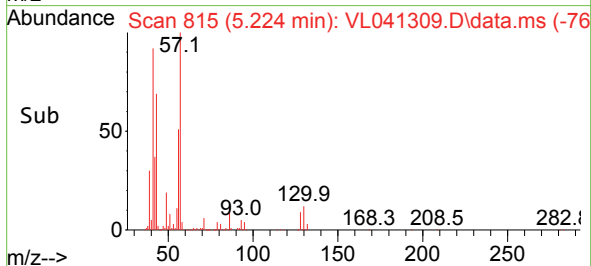
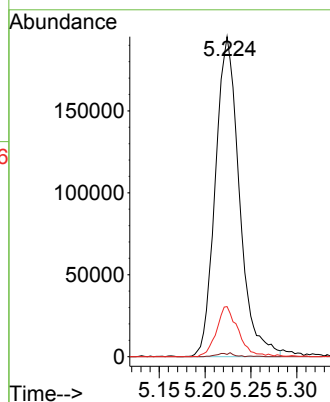
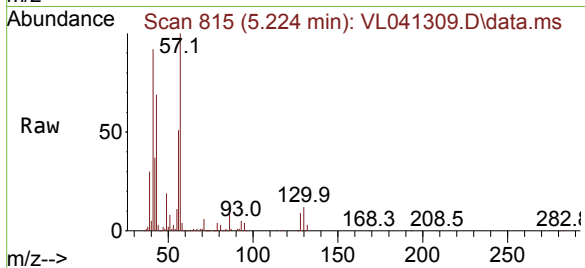
Tgt Ion: 42 Resp: 355666

Ion Ratio Lower Upper

42 100

72 0.8 30.2 45.4#

71 14.6 30.3 45.5#



#44

2,2,4-Trimethylpentane

Concen: 0.031 ppbv

RT: 7.336 min Scan# 1472

Delta R.T. 0.003 min

Lab File: VL041309.D

Acq: 4 Jun 2024 17:24

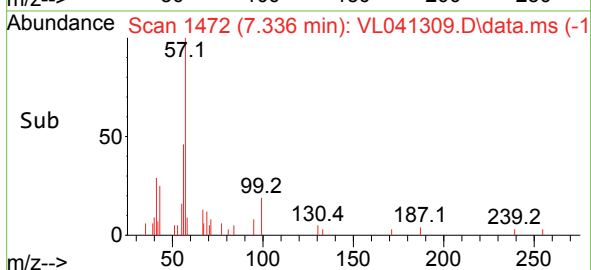
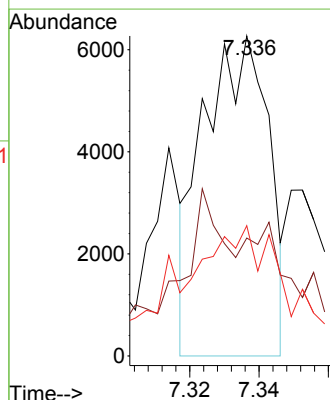
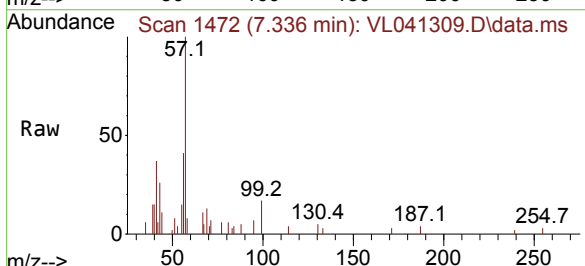
Tgt Ion: 57 Resp: 8174

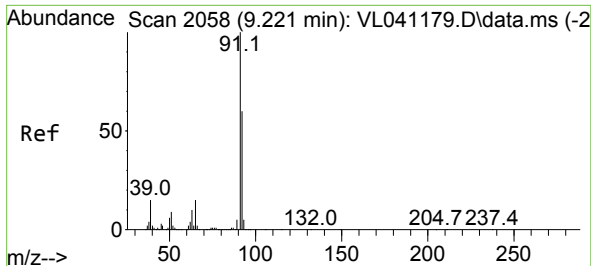
Ion Ratio Lower Upper

57 100

41 0.0 29.4 44.2#

56 75.7 25.0 37.4#

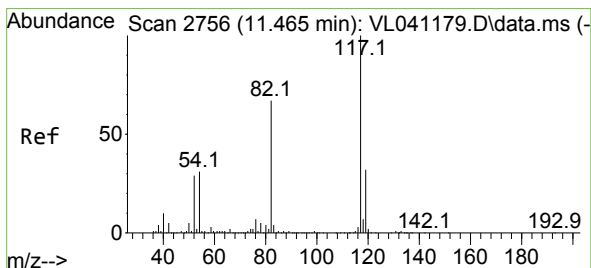
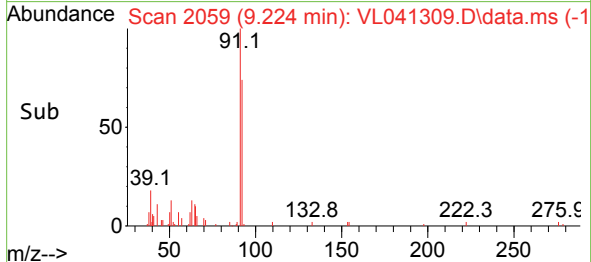
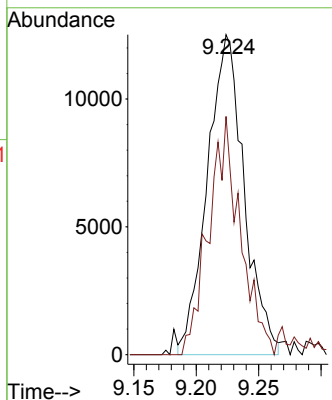
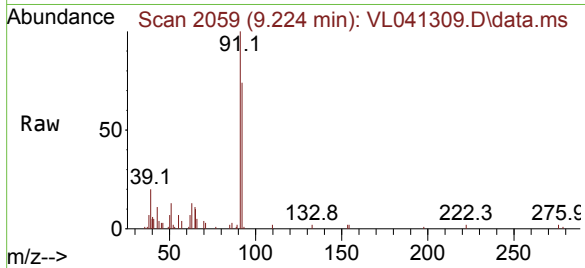




#53
Toluene
Concen: 0.147 ppbv
RT: 9.224 min Scan# 2058
Delta R.T. 0.003 min
Lab File: VL041309.D
Acq: 4 Jun 2024 17:24

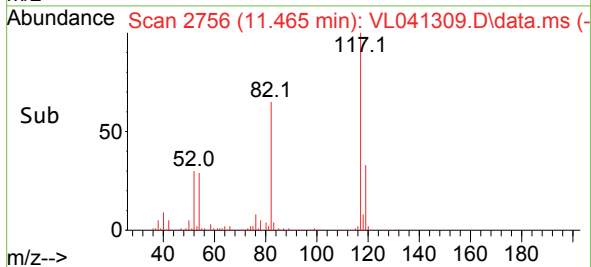
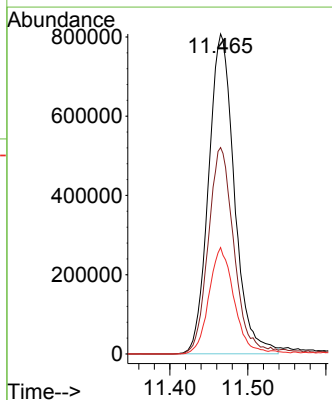
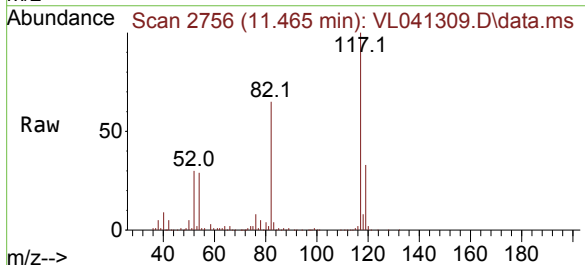
Instrument :
MSVOA_L
ClientSampleId :
LOC-4-AMBIENT

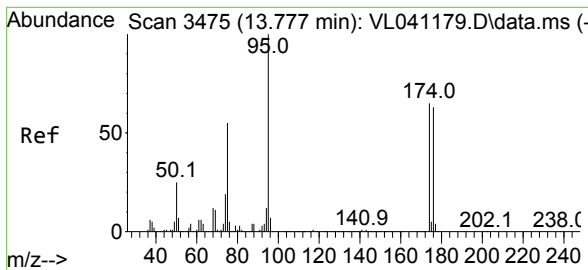
Tgt Ion: 91 Resp: 25655
Ion Ratio Lower Upper
91 100
92 68.8 49.2 73.8



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.465 min Scan# 2756
Delta R.T. 0.003 min
Lab File: VL041309.D
Acq: 4 Jun 2024 17:24

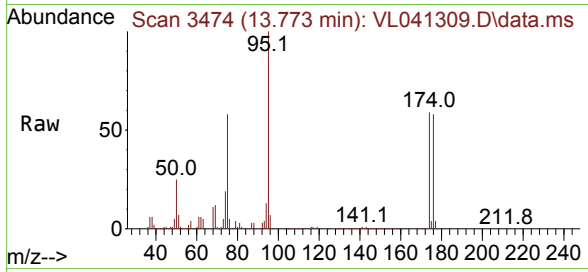
Tgt Ion: 117 Resp: 1862119
Ion Ratio Lower Upper
117 100
82 66.0 52.3 78.5
119 33.6 26.2 39.2





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.579 ppbv
 RT: 13.773 min Scan# 3475
 Delta R.T. 0.003 min
 Lab File: VL041309.D
 Acq: 4 Jun 2024 17:24

Instrument :
 MSVOA_L
 ClientSampleId :
 LOC-4-AMBIENT



Tgt Ion: 95 Resp: 1377147

Ion	Ratio	Lower	Upper
95	100		
174	66.0	52.2	78.2
175	4.7	4.1	6.1

