

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL060424\
 Data File : VL041310.D
 Acq On : 4 Jun 2024 18:06
 Operator : SY/MD
 Sample : P2673-06DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOC-4-AMBIENTDUP

Quant Time: Jun 05 05:29:02 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)

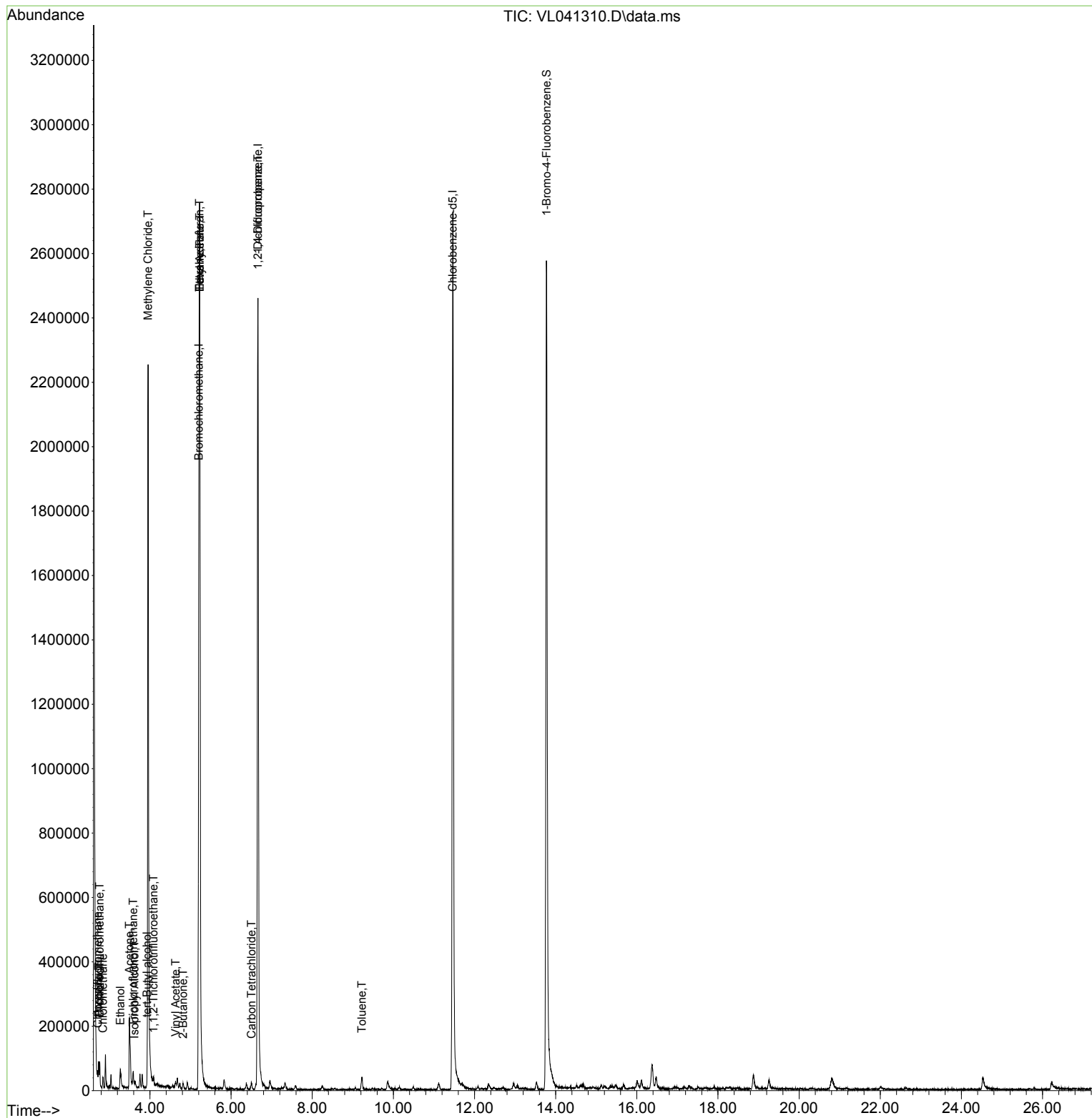
Internal Standards						
1) Bromochloromethane	5.205	49	732765	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	1867582	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	1802325	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.773	95	1322687	9.505	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.761	85	51200	0.438	ppbv	95
3) Chlorodifluoromethane	2.710	51	33087	0.286	ppbv	97
4) Chloromethane	2.841	50	27741	0.636	ppbv	99
9) Propene	2.735	41	12942	0.314	ppbv #	75
11) Trichlorofluoromethane	3.587	101	28547	0.265	ppbv	88
12) 1,1,2-Trichlorotrifluo...	4.086	101	2380	0.031	ppbv #	1
13) Ethanol	3.272	45	70440	6.564	ppbv	96
15) Acetone	3.494	43	247225	2.955	ppbv	98
17) tert-Butyl alcohol	3.931	59	2362	0.031	ppbv #	71
19) Isopropyl Alcohol	3.616	45	11276	0.215	ppbv #	29
20) Methylene Chloride	3.954	84	720736	23.702	ppbv	99
23) Vinyl Acetate	4.632	43	4558	0.053	ppbv #	7
25) Ethyl Acetate	5.227	43	667896	4.035	ppbv #	77
26) Hexane	5.227	57	940310	12.633	ppbv #	41
34) 2-Butanone	4.816	43	18455	0.206	ppbv #	89
35) Carbon Tetrachloride	6.504	117	8500	0.080	ppbv #	83
39) 1,2-Dichloropropane	6.658	63	474330	8.229	ppbv #	23
41) Tetrahydrofuran	5.224	42	347973	5.977	ppbv #	51
53) Toluene	9.221	91	18596	0.112	ppbv #	20

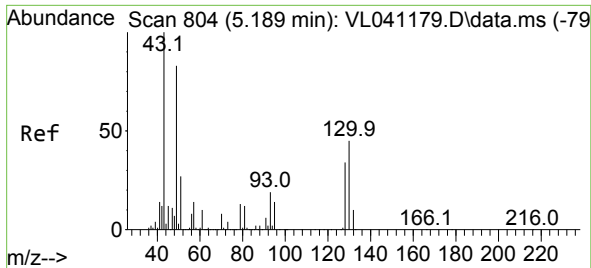
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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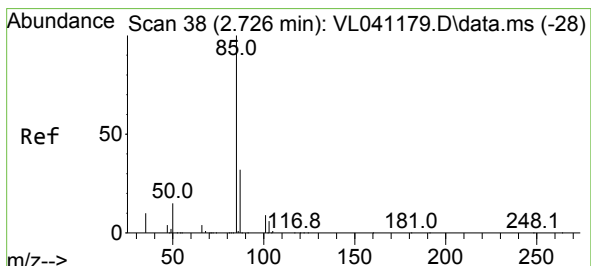
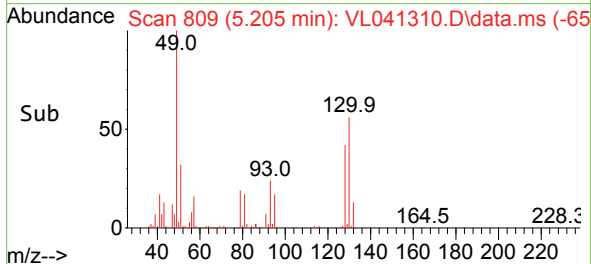
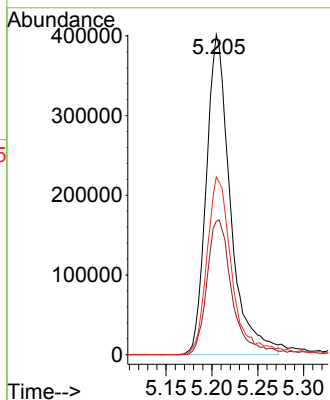
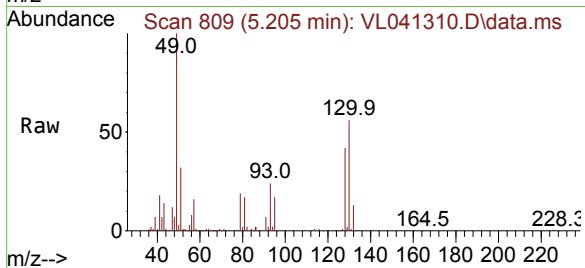




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.205 min Scan# 80
 Delta R.T. -0.000 min
 Lab File: VL041310.D
 Acq: 4 Jun 2024 18:06

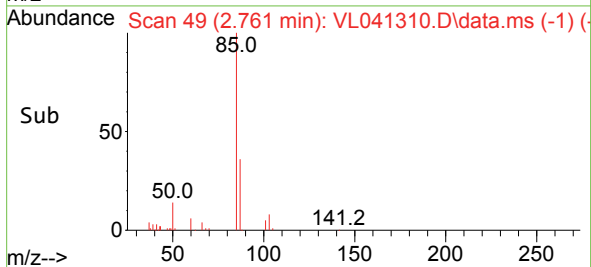
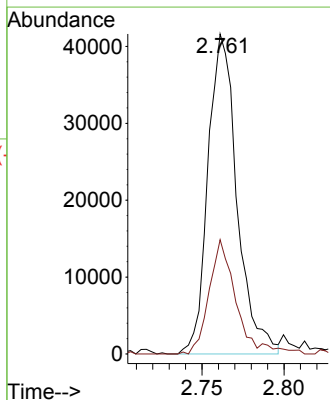
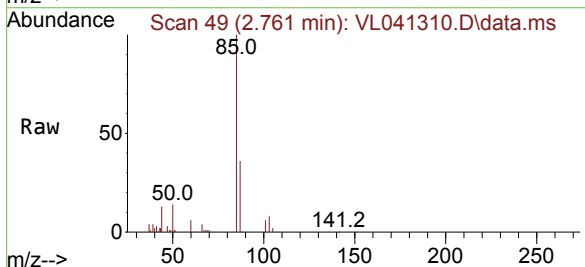
Instrument :
 MSVOA_L
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 LOC-4-AMBIENTDUP

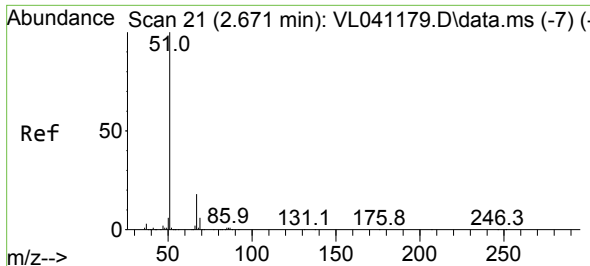
Tgt Ion: 49 Resp: 732765
 Ion Ratio Lower Upper
 49 100
 128 45.2 22.8 68.3
 130 59.9 28.4 85.3



#2
 Dichlorodifluoromethane
 Concen: 0.438 ppbv
 RT: 2.761 min Scan# 49
 Delta R.T. 0.003 min
 Lab File: VL041310.D
 Acq: 4 Jun 2024 18:06

Tgt Ion: 85 Resp: 51200
 Ion Ratio Lower Upper
 85 100
 87 35.7 26.5 39.7

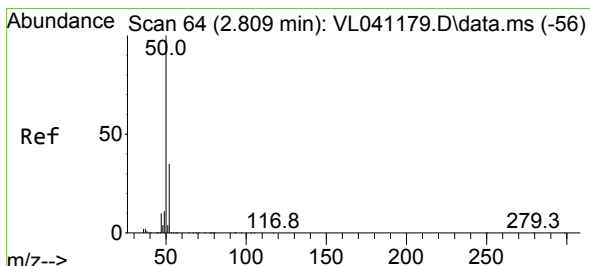
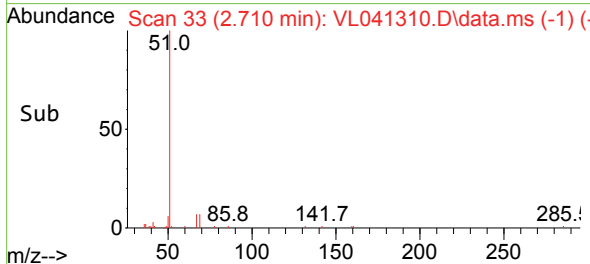
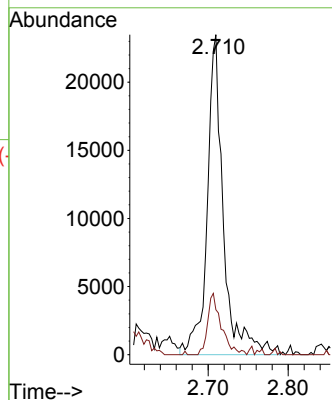
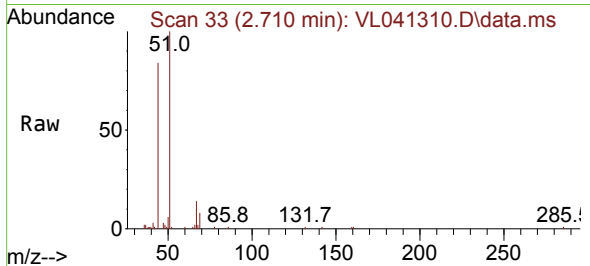




#3
Chlorodifluoromethane
Concen: 0.286 ppbv
RT: 2.710 min Scan# 31
Delta R.T. 0.006 min
Lab File: VL041310.D
Acq: 4 Jun 2024 18:06

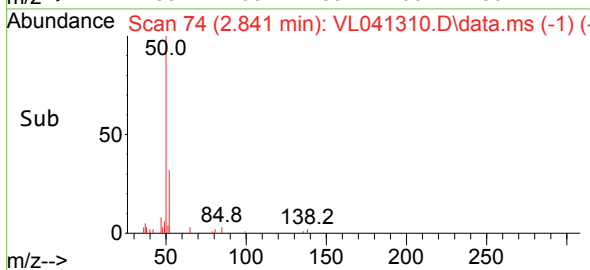
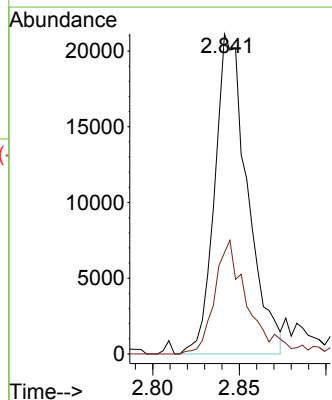
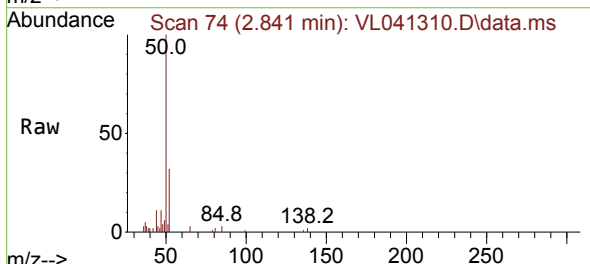
Instrument :
MSVOA_L
ClientSampleId :
LOC-4-AMBIENTDUP

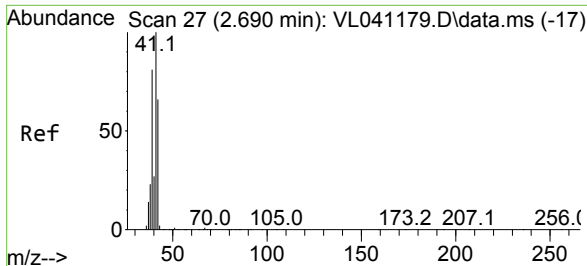
Tgt Ion: 51 Resp: 33087
Ion Ratio Lower Upper
51 100
67 17.3 14.7 22.1



#4
Chloromethane
Concen: 0.636 ppbv
RT: 2.841 min Scan# 74
Delta R.T. 0.003 min
Lab File: VL041310.D
Acq: 4 Jun 2024 18:06

Tgt Ion: 50 Resp: 27741
Ion Ratio Lower Upper
50 100
52 31.7 25.6 38.4

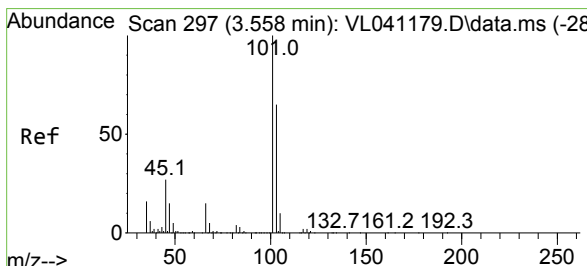
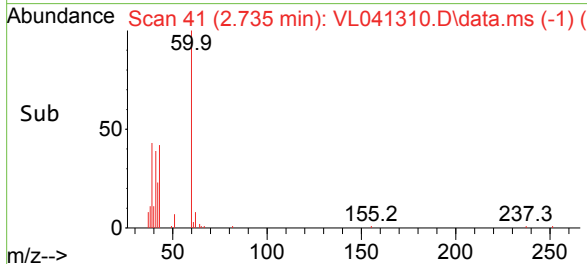
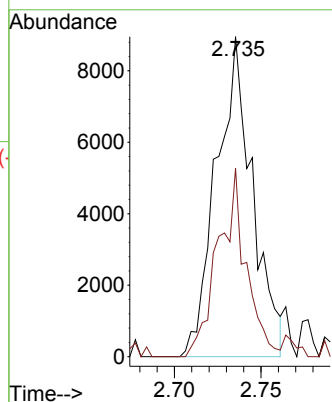
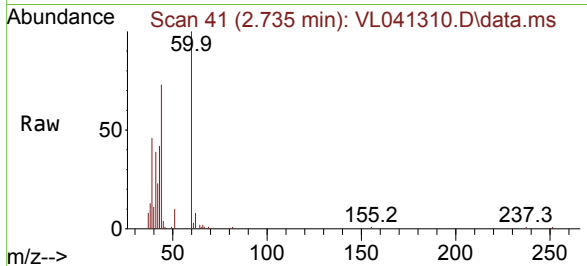




#9
Propene
Concen: 0.314 ppbv
RT: 2.735 min Scan# 41
Delta R.T. 0.013 min
Lab File: VL041310.D
Acq: 4 Jun 2024 18:06

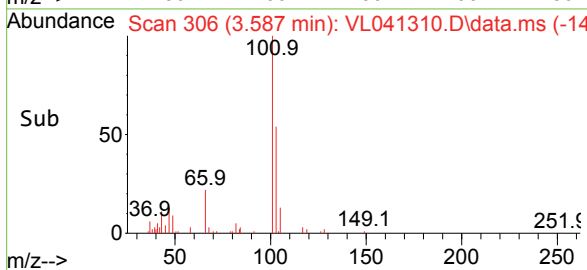
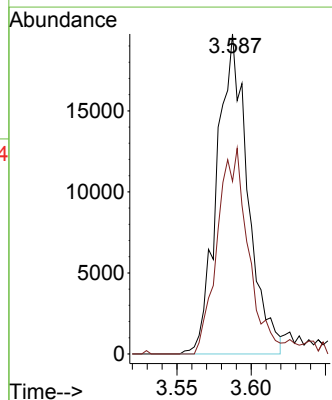
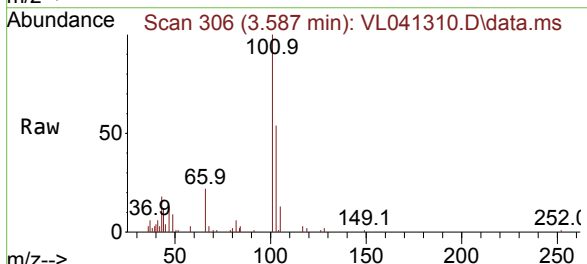
Instrument :
MSVOA_L
ClientSampleId :
LOC-4-AMBIENTDUP

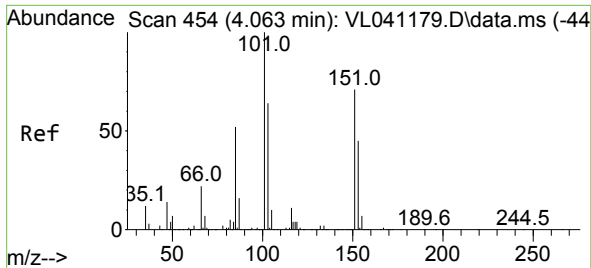
Tgt Ion: 41 Resp: 12942
Ion Ratio Lower Upper
41 100
42 48.6 55.2 82.8#



#11
Trichlorofluoromethane
Concen: 0.265 ppbv
RT: 3.587 min Scan# 306
Delta R.T. 0.003 min
Lab File: VL041310.D
Acq: 4 Jun 2024 18:06

Tgt Ion: 101 Resp: 28547
Ion Ratio Lower Upper
101 100
103 54.0 50.6 76.0

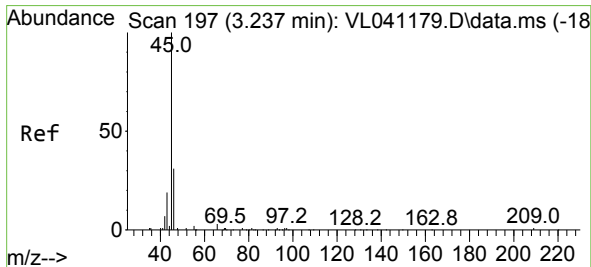
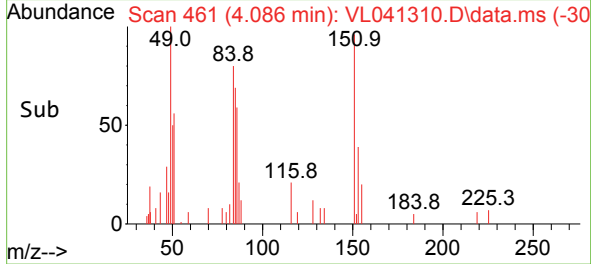
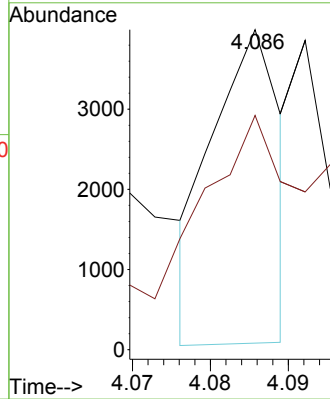
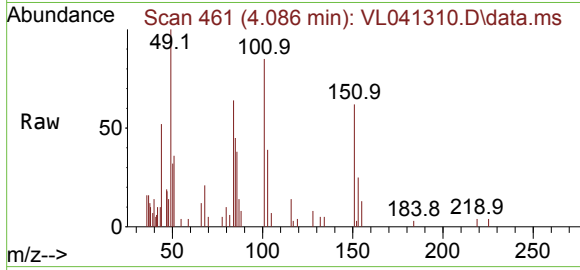




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.031 ppbv
 RT: 4.086 min Scan# 4
 Delta R.T. 0.003 min
 Lab File: VL041310.D
 Acq: 4 Jun 2024 18:06

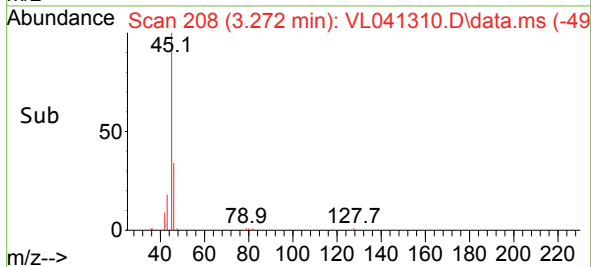
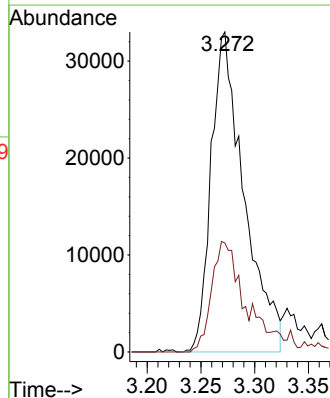
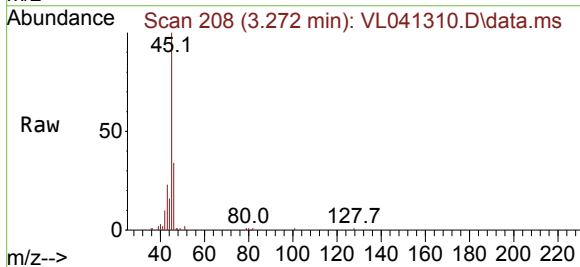
Instrument :
 MSVOA_L
 ClientSampleId :
 LOC-4-AMBIENTDUP

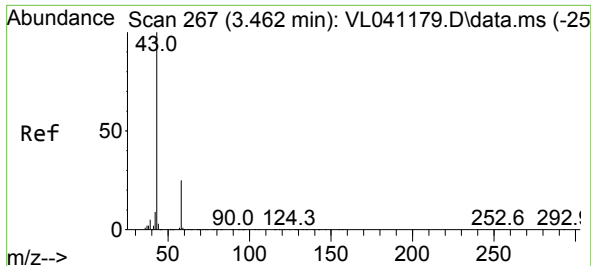
Tgt Ion:101 Resp: 2380
 Ion Ratio Lower Upper
 101 100
 151 190.9 54.8 82.2#



#13
 Ethanol
 Concen: 6.564 ppbv
 RT: 3.272 min Scan# 208
 Delta R.T. 0.010 min
 Lab File: VL041310.D
 Acq: 4 Jun 2024 18:06

Tgt Ion: 45 Resp: 70440
 Ion Ratio Lower Upper
 45 100
 46 37.7 14.2 56.6





#15

Acetone

Concen: 2.955 ppbv

RT: 3.494 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL041310.D

Acq: 4 Jun 2024 18:06

Instrument :

MSVOA_L

ClientSampleId :

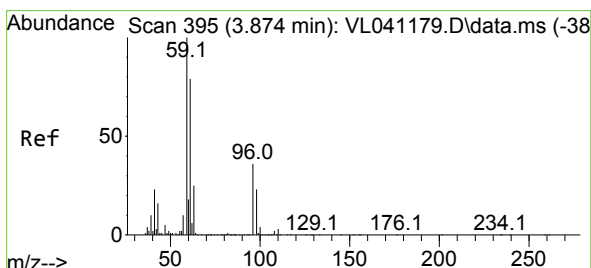
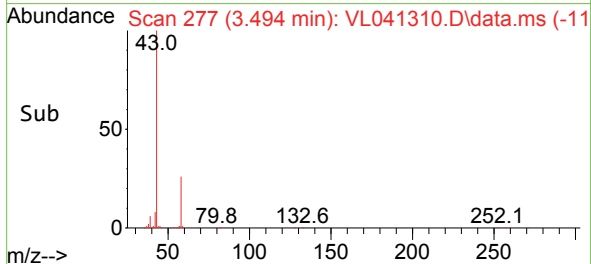
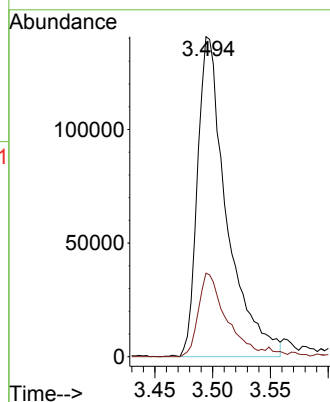
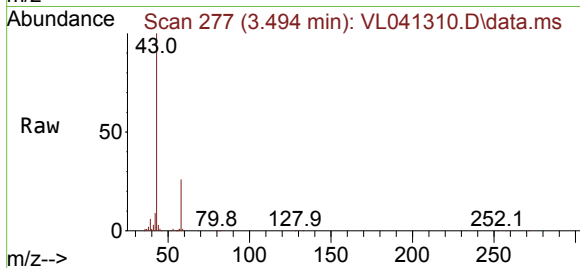
LOC-4-AMBIENTDUP

Tgt Ion: 43 Resp: 247225

Ion Ratio Lower Upper

43 100

58 27.0 20.6 31.0



#17

tert-Butyl alcohol

Concen: 0.031 ppbv

RT: 3.931 min Scan# 413

Delta R.T. 0.039 min

Lab File: VL041310.D

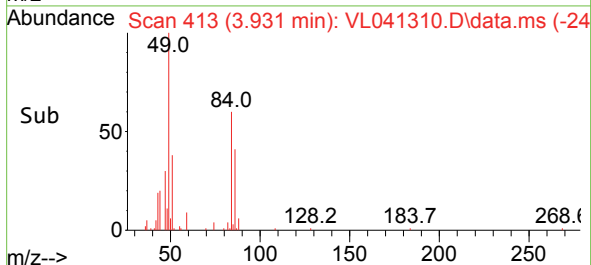
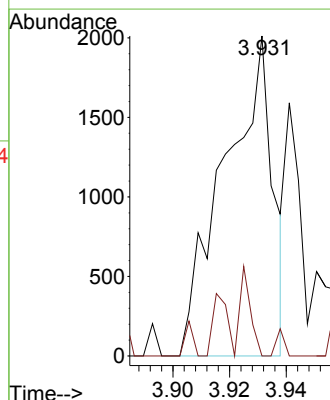
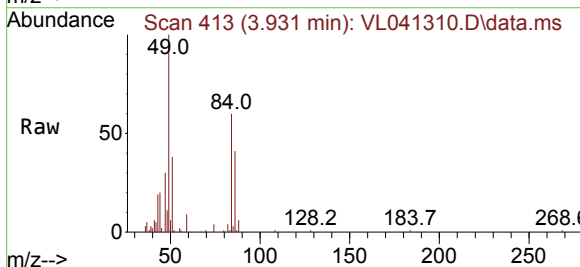
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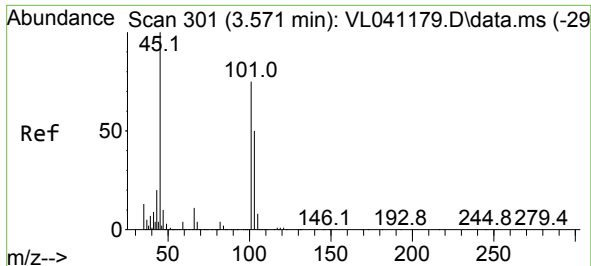
Tgt Ion: 59 Resp: 2362

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.4#

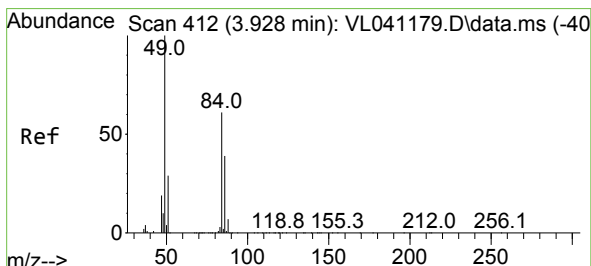
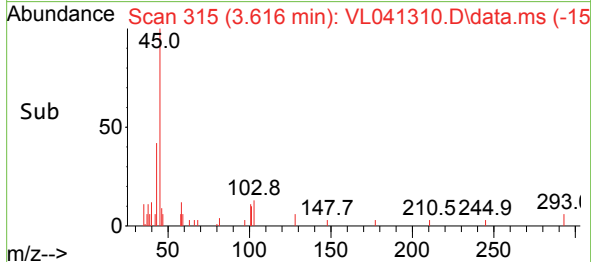
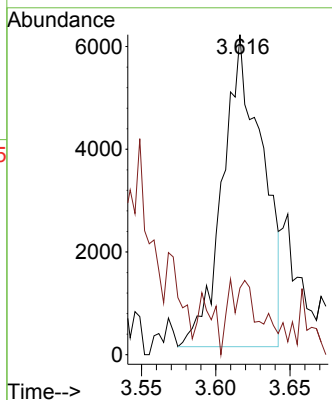
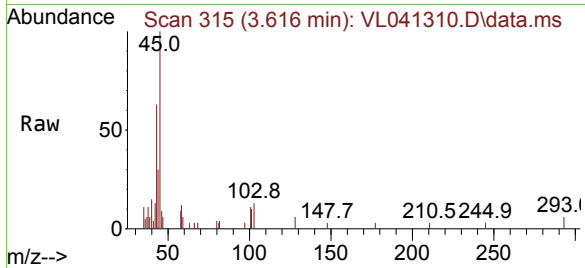




#19
Isopropyl Alcohol
Concen: 0.215 ppbv
RT: 3.616 min Scan# 315
Delta R.T. 0.023 min
Lab File: VL041310.D
Acq: 4 Jun 2024 18:06

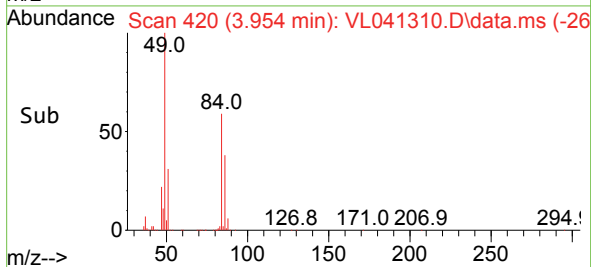
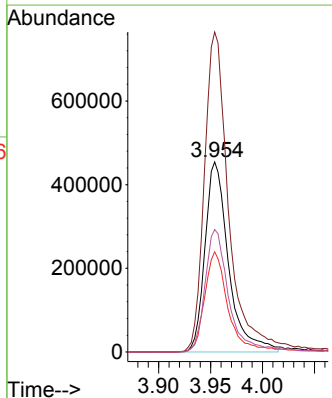
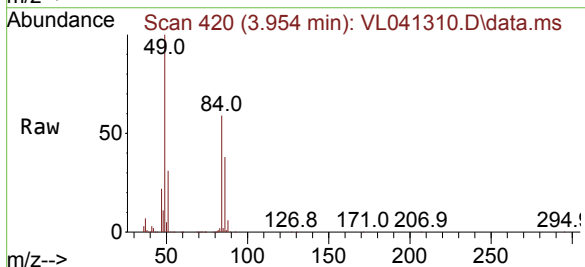
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LOC-4-AMBIENTDUP

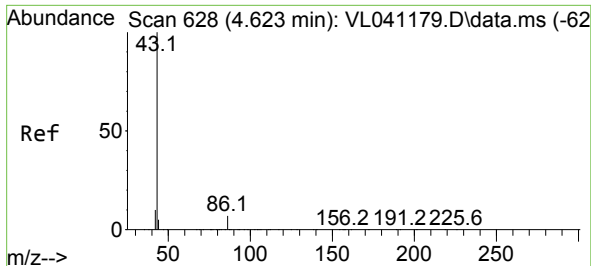
Tgt Ion: 45 Resp: 11276
Ion Ratio Lower Upper
45 100
58 27.5 1.4 2.2#



#20
Methylene Chloride
Concen: 23.702 ppbv
RT: 3.954 min Scan# 420
Delta R.T. 0.003 min
Lab File: VL041310.D
Acq: 4 Jun 2024 18:06

Tgt Ion: 84 Resp: 720736
Ion Ratio Lower Upper
84 100
49 168.2 136.2 204.2
51 52.5 41.9 62.9
86 64.4 52.6 78.8

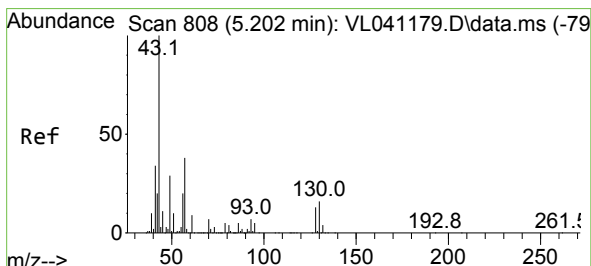
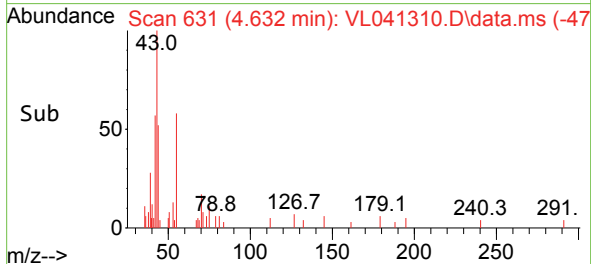
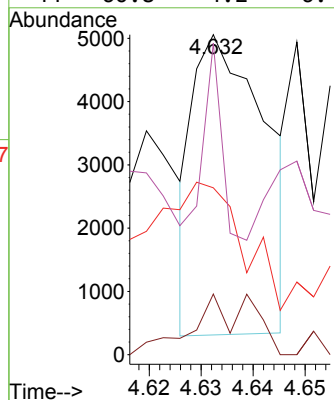
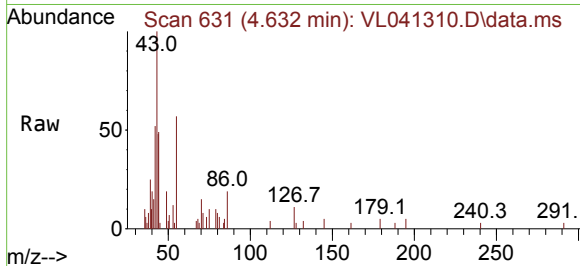




#23
 Vinyl Acetate
 Concen: 0.053 ppbv
 RT: 4.632 min Scan# 61
 Delta R.T. -0.006 min
 Lab File: VL041310.D
 Acq: 4 Jun 2024 18:06

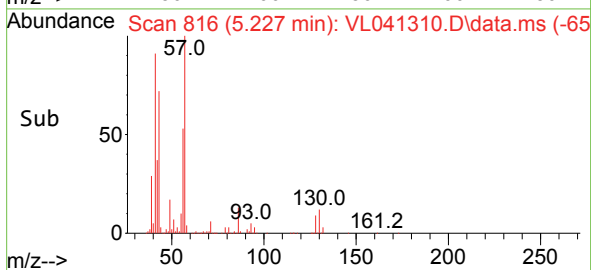
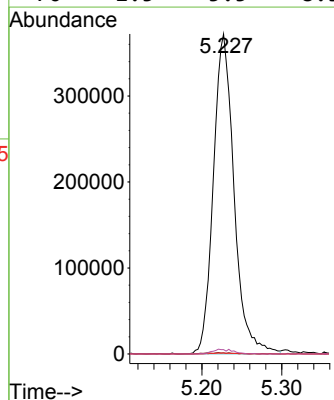
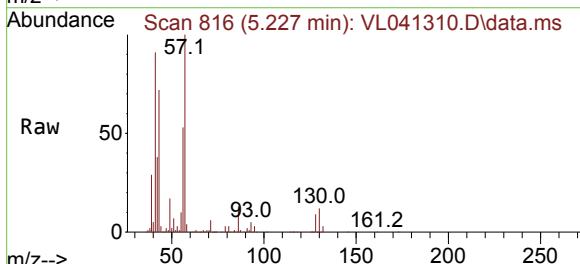
Instrument :
 MSVOA_L
 ClientSampleId :
 LOC-4-AMBIENTDUP

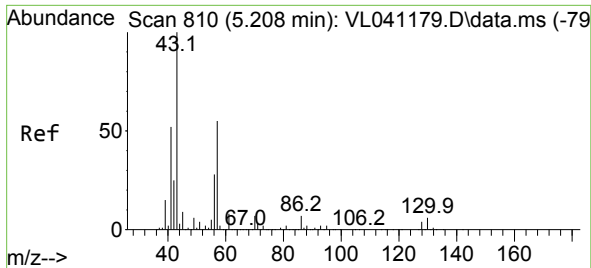
Tgt Ion:	43	Resp:	4558
Ion	Ratio	Lower	Upper
43	100		
86	20.2	4.7	7.1#
42	40.8	8.0	12.0#
44	60.8	4.2	6.4#



#25
 Ethyl Acetate
 Concen: 4.035 ppbv
 RT: 5.227 min Scan# 816
 Delta R.T. 0.013 min
 Lab File: VL041310.D
 Acq: 4 Jun 2024 18:06

Tgt Ion:	43	Resp:	667896
Ion	Ratio	Lower	Upper
43	100		
45	0.6	8.1	12.1#
61	0.3	7.4	11.0#
70	1.5	5.5	8.3#

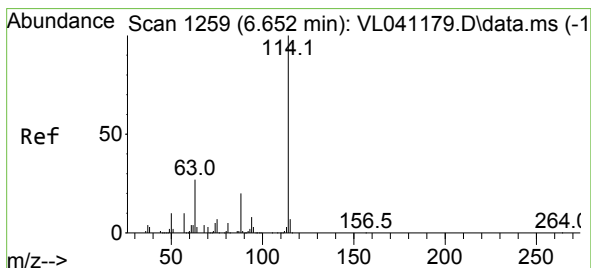
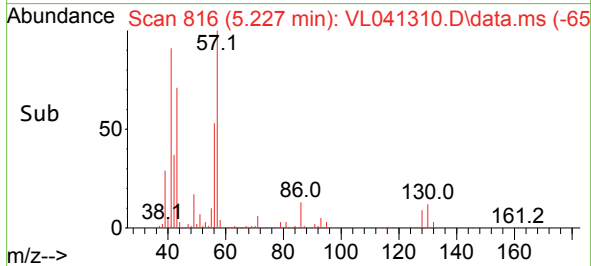
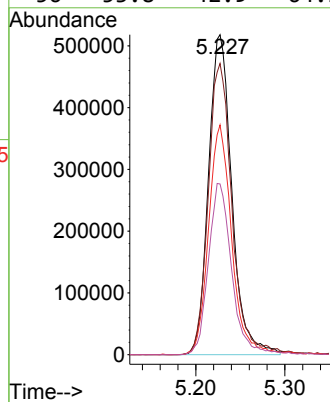
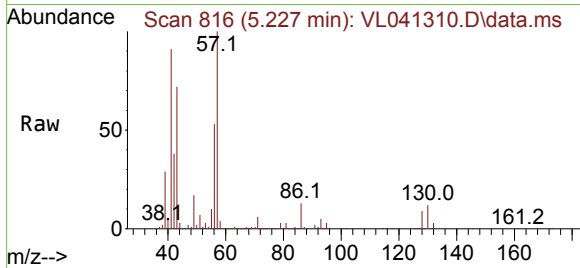




#26
Hexane
Concen: 12.633 ppbv
RT: 5.227 min Scan# 810
Delta R.T. 0.006 min
Lab File: VL041310.D
Acq: 4 Jun 2024 18:06

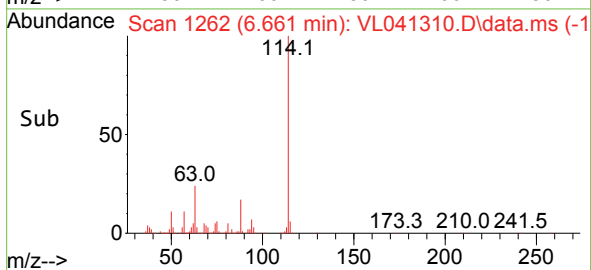
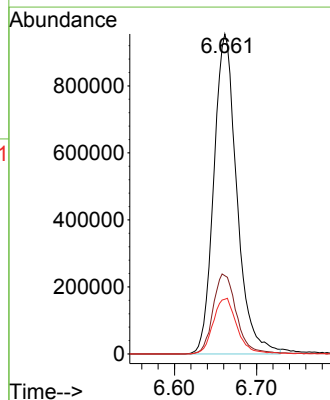
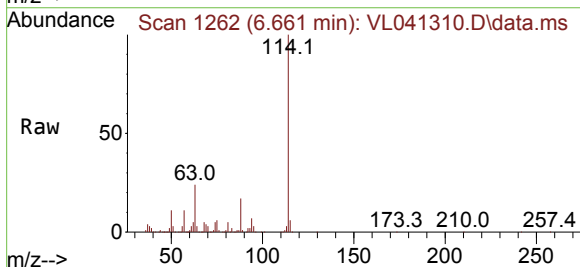
Instrument :
MSVOA_L
ClientSampleId :
LOC-4-AMBIENTDUP

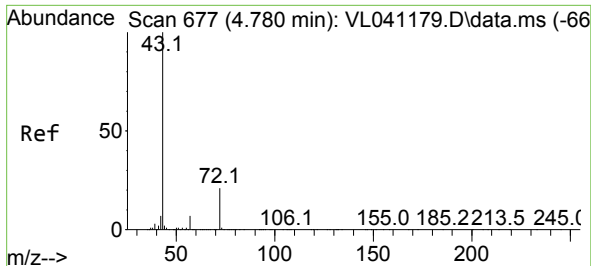
Tgt Ion: 57 Resp: 940310
Ion Ratio Lower Upper
57 100
41 93.6 77.1 115.7
43 71.8 186.1 279.1#
56 53.8 42.9 64.3



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.661 min Scan# 1262
Delta R.T. 0.003 min
Lab File: VL041310.D
Acq: 4 Jun 2024 18:06

Tgt Ion:114 Resp: 1867582
Ion Ratio Lower Upper
114 100
63 25.8 20.6 30.8
88 18.1 14.5 21.7

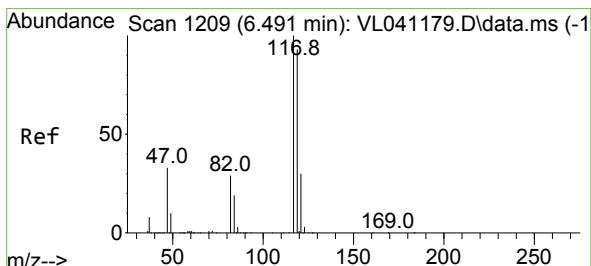
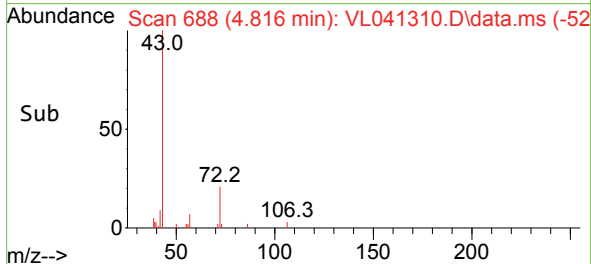
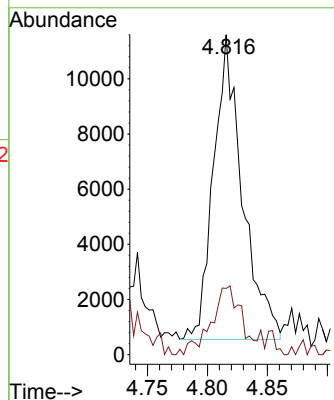
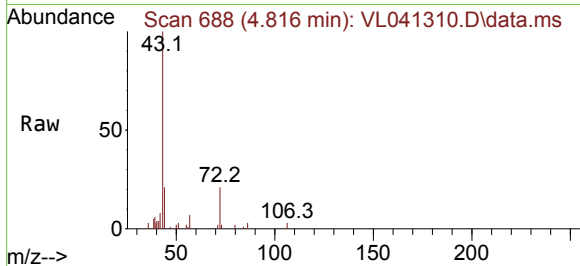




#34
2-Butanone
Concen: 0.206 ppbv
RT: 4.816 min Scan# 611
Delta R.T. 0.019 min
Lab File: VL041310.D
Acq: 4 Jun 2024 18:06

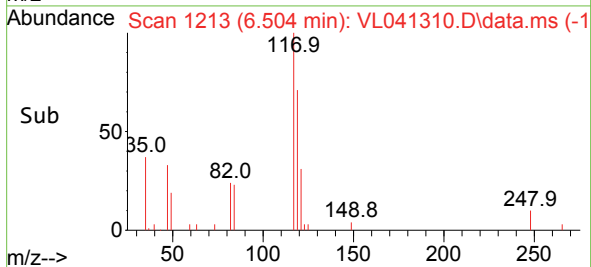
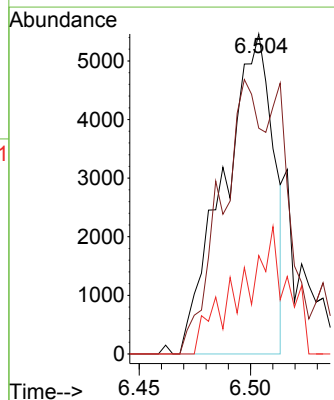
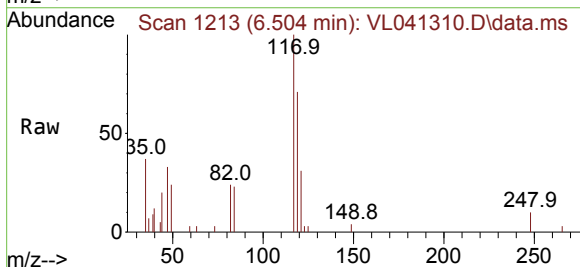
Instrument :
MSVOA_L
ClientSampleId :
LOC-4-AMBIENTDUP

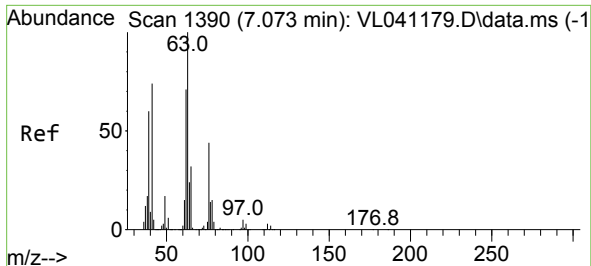
Tgt Ion: 43 Resp: 18455
Ion Ratio Lower Upper
43 100
72 26.8 17.4 26.0#



#35
Carbon Tetrachloride
Concen: 0.080 ppbv
RT: 6.504 min Scan# 1213
Delta R.T. 0.003 min
Lab File: VL041310.D
Acq: 4 Jun 2024 18:06

Tgt Ion: 117 Resp: 8500
Ion Ratio Lower Upper
117 100
119 70.5 74.0 111.0#
121 30.8 24.8 37.2





#39

1,2-Dichloropropane

Concen: 8.229 ppbv

RT: 6.658 min Scan# 1

Delta R.T. -0.421 min

Lab File: VL041310.D

Acq: 4 Jun 2024 18:06

Instrument :

MSVOA_L

ClientSampleId :

LOC-4-AMBIENTDUP

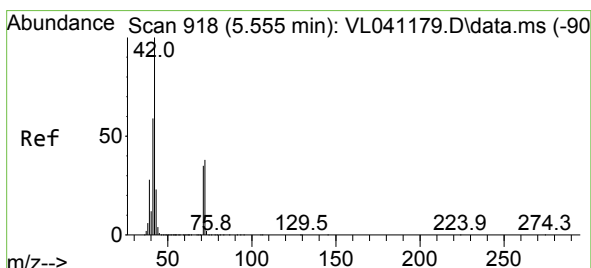
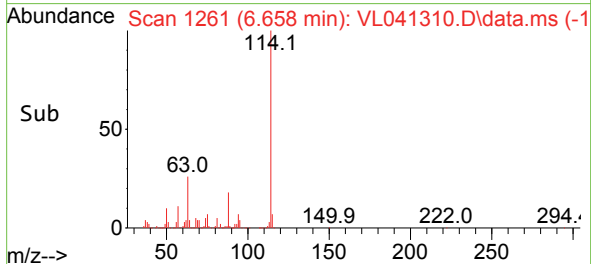
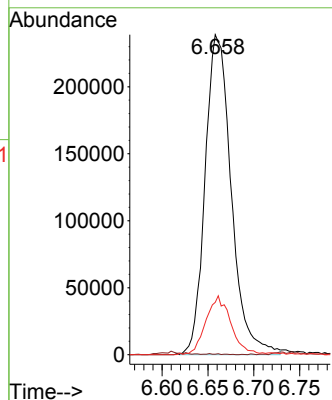
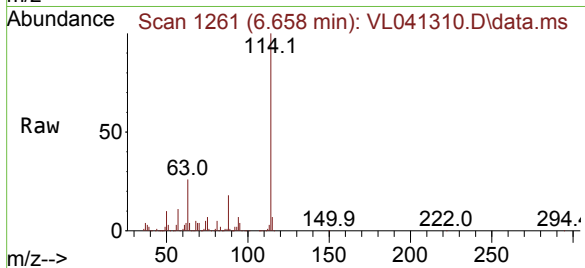
Tgt Ion: 63 Resp: 474330

Ion Ratio Lower Upper

63 100

41 0.0 59.9 89.9#

62 16.0 53.8 80.6#



#41

Tetrahydrofuran

Concen: 5.977 ppbv

RT: 5.224 min Scan# 815

Delta R.T. -0.341 min

Lab File: VL041310.D

Acq: 4 Jun 2024 18:06

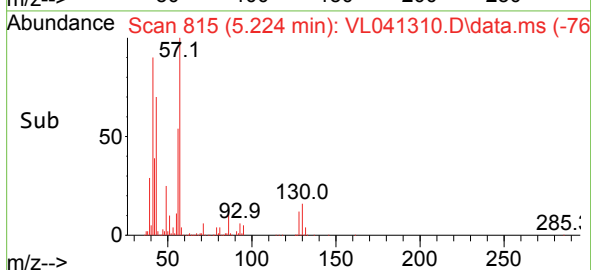
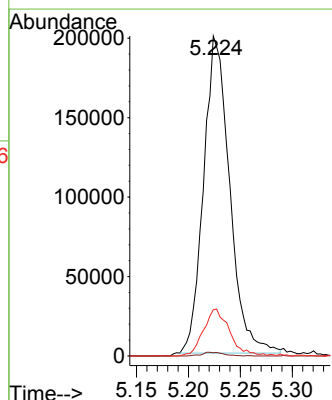
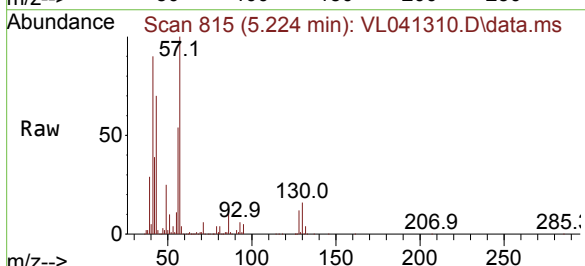
Tgt Ion: 42 Resp: 347973

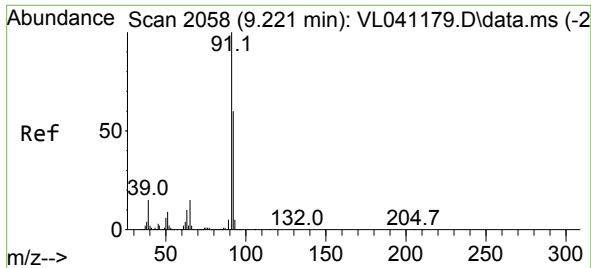
Ion Ratio Lower Upper

42 100

72 1.0 30.2 45.4#

71 15.2 30.3 45.5#





#53

Toluene

Concen: 0.112 ppbv

RT: 9.221 min Scan# 2058

Delta R.T. 0.000 min

Lab File: VL041310.D

Acq: 4 Jun 2024 18:06

Instrument :

MSVOA_L

ClientSampleId :

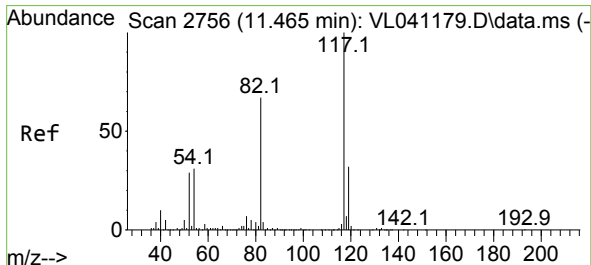
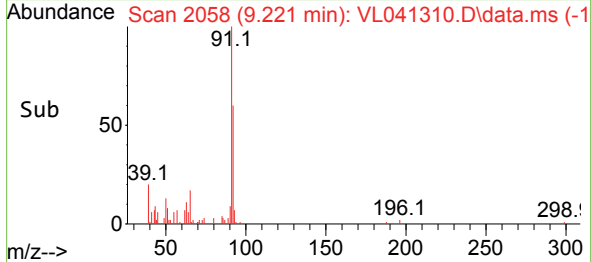
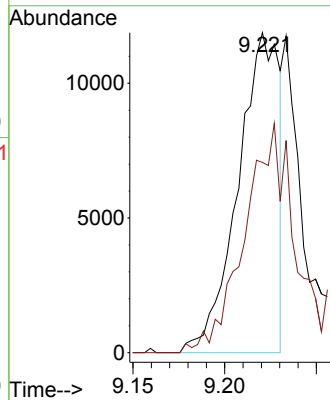
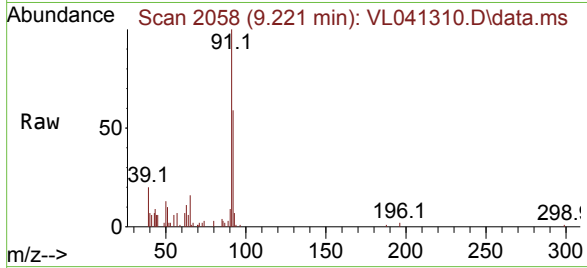
LOC-4-AMBIENTDUP

Tgt Ion: 91 Resp: 18596

Ion Ratio Lower Upper

91 100

92 0.0 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: VL041310.D

Acq: 4 Jun 2024 18:06

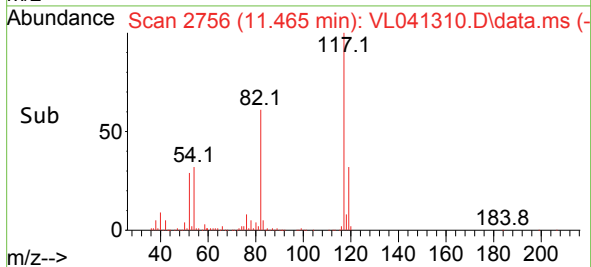
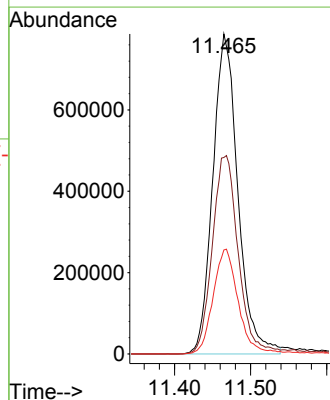
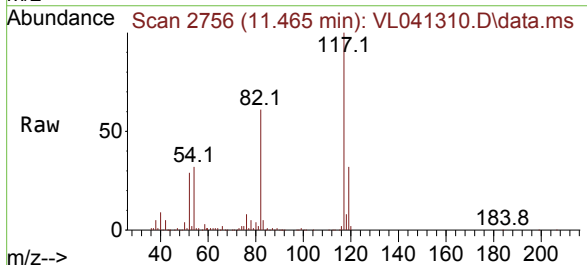
Tgt Ion: 117 Resp: 1802325

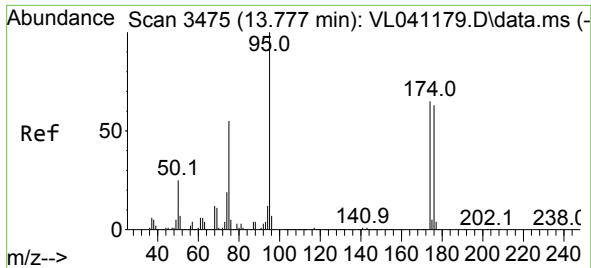
Ion Ratio Lower Upper

117 100

82 66.1 52.3 78.5

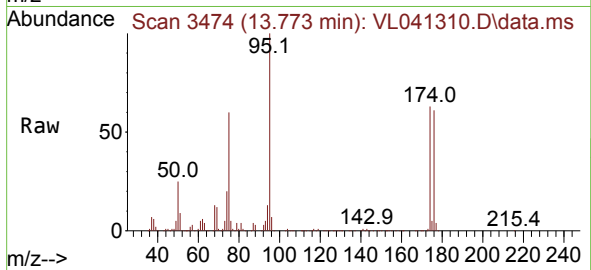
119 32.9 26.2 39.2





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.505 ppbv
 RT: 13.773 min Scan# 34
 Delta R.T. 0.003 min
 Lab File: VL041310.D
 Acq: 4 Jun 2024 18:06

Instrument :
 MSVOA_L
 ClientSampleId :
 LOC-4-AMBIENTDUP



Tgt Ion: 95 Resp: 1322687
 Ion Ratio Lower Upper
 95 100
 174 65.9 52.2 78.2
 175 4.8 4.1 6.1

