

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050624\
 Data File : VL041220.D
 Acq On : 6 May 2024 16:19
 Operator : SY/MD
 Sample : P2334-13
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 BA-20-AA01-20240425

Quant Time: May 07 05:25:25 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue May 07 05:19:44 2024
 Response via : Initial Calibration

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

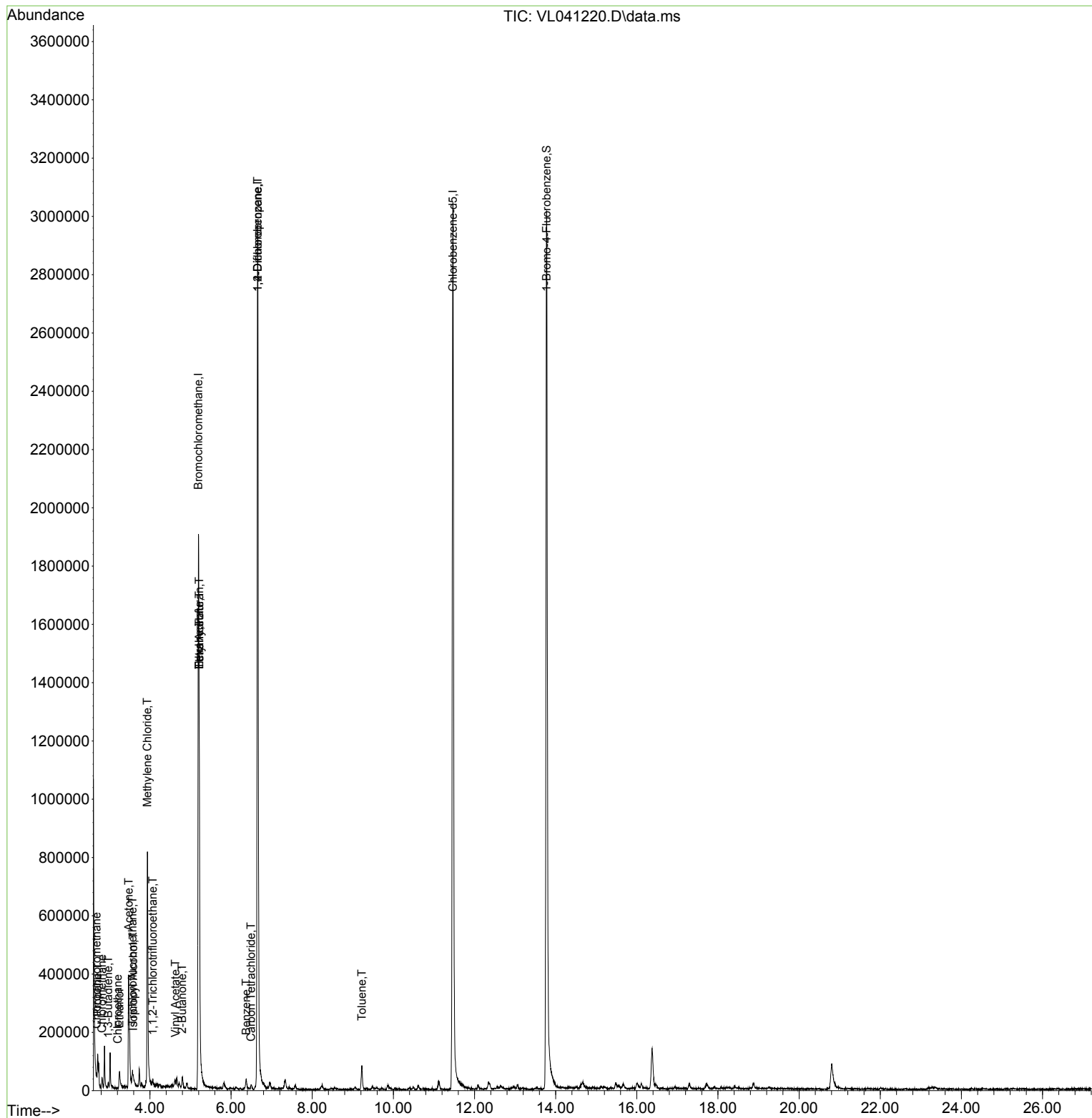
Internal Standards						
1) Bromochloromethane	5.195	49	874368	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2265298	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	2029451	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.777	95	1549778	10.115	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.200%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	2.684	51	44152	0.332	ppbv	94
4) Chloromethane	2.819	50	32023	0.615	ppbv #	80
7) Chloroethane	3.205	64	804	0.044	ppbv #	43
9) Propene	2.706	41	20632	0.397	ppbv	84
11) Trichlorofluoromethane	3.571	101	26853	0.223	ppbv	97
12) 1,1,2-Trichlorotrifluo...	4.073	101	4582	0.052	ppbv #	59
13) Ethanol	3.250	45	63075	5.414	ppbv	95
15) Acetone	3.475	43	445688	4.319	ppbv	98
16) 1,3-Butadiene	2.970	39	5581	0.107	ppbv #	35
19) Isopropyl Alcohol	3.591	45	16586	0.245	ppbv #	41
20) Methylene Chloride	3.938	84	254182	7.083	ppbv	98
23) Vinyl Acetate	4.629	43	4324	0.038	ppbv #	60
25) Ethyl Acetate	5.214	43	208799	1.014	ppbv #	79
26) Hexane	5.214	57	283826	3.088	ppbv #	41
34) 2-Butanone	4.793	43	21056	0.183	ppbv #	34
35) Carbon Tetrachloride	6.488	117	4433	0.035	ppbv	88
36) Benzene	6.375	78	12721	0.067	ppbv	93
39) 1,2-Dichloropropane	6.655	63	588291	8.030	ppbv #	24
41) Tetrahydrofuran	5.214	42	106325	1.274	ppbv #	53
53) Toluene	9.224	91	28984	0.131	ppbv #	33

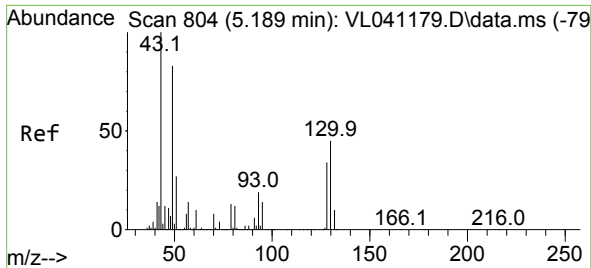
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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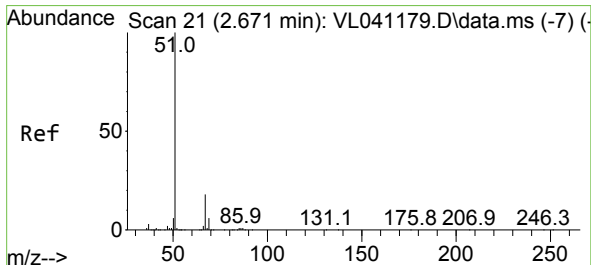
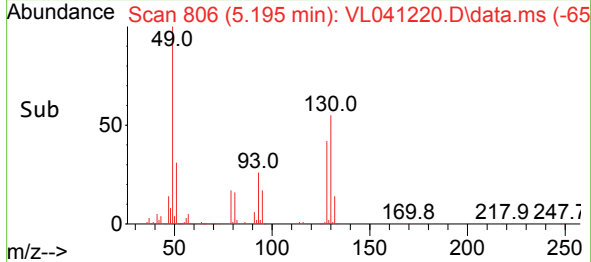
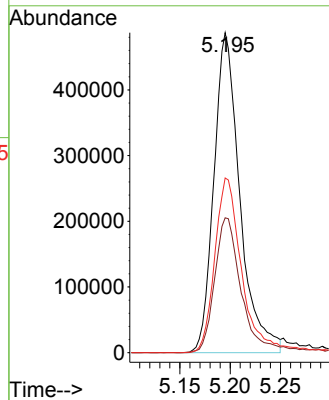
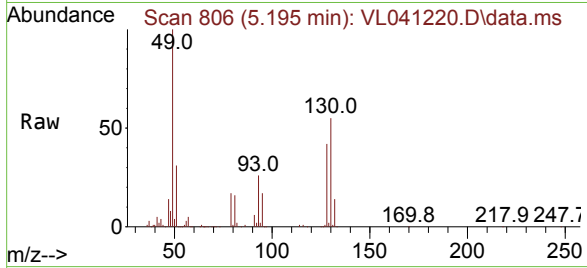




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.195 min Scan# 80
Delta R.T. 0.000 min
Lab File: VL041220.D
Acq: 6 May 2024 16:19

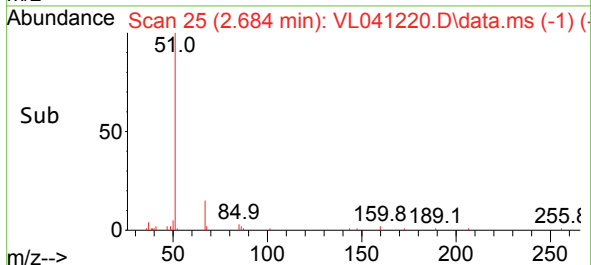
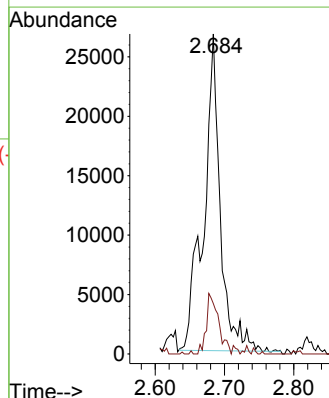
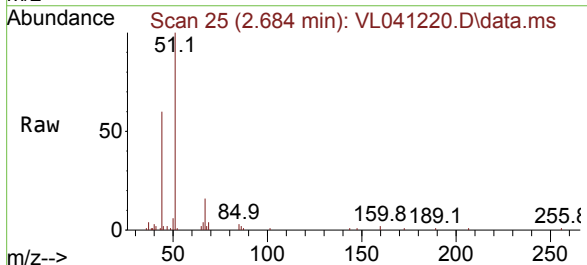
Instrument :
MSVOA_L
ClientSampleId :
BA-20-AA01-20240425

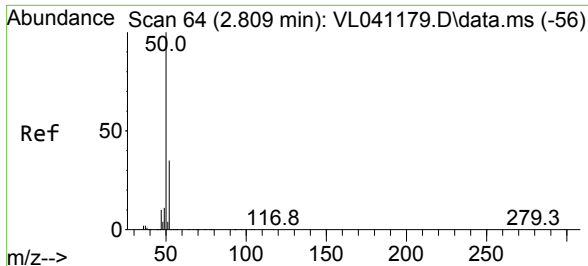
Tgt Ion: 49 Resp: 874368
Ion Ratio Lower Upper
49 100
128 44.6 21.5 64.5
130 58.3 27.2 81.6



#3
Chlorodifluoromethane
Concen: 0.332 ppbv
RT: 2.684 min Scan# 25
Delta R.T. 0.000 min
Lab File: VL041220.D
Acq: 6 May 2024 16:19

Tgt Ion: 51 Resp: 44152
Ion Ratio Lower Upper
51 100
67 14.8 14.0 21.0

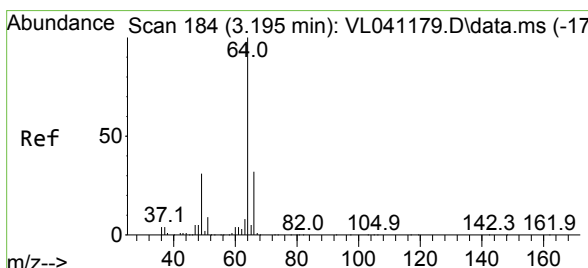
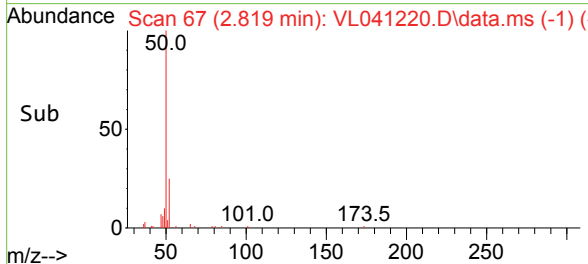
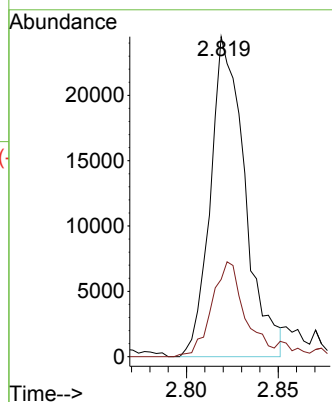
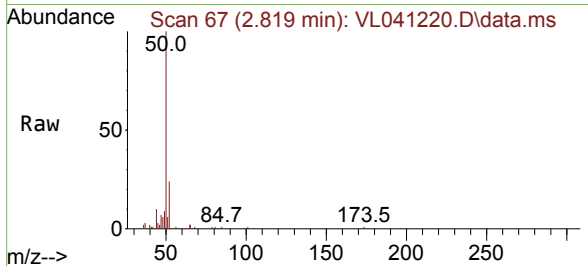




#4
Chloromethane
Concen: 0.615 ppbv
RT: 2.819 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL041220.D
Acq: 6 May 2024 16:19

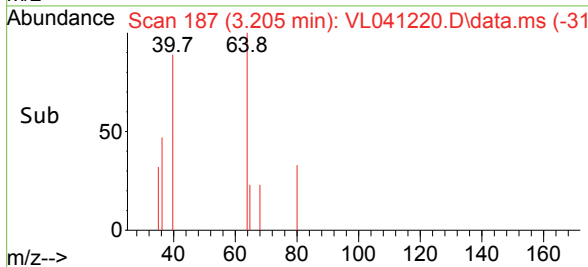
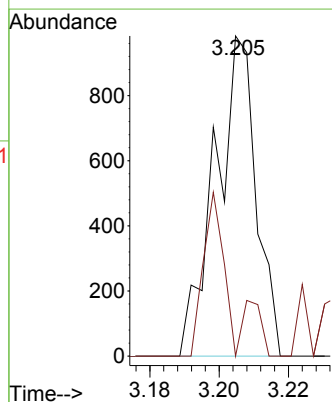
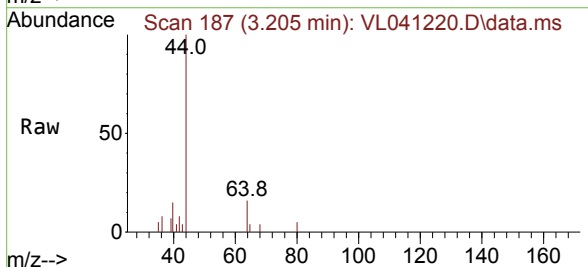
Instrument :
MSVOA_L
ClientSampleId :
BA-20-AA01-20240425

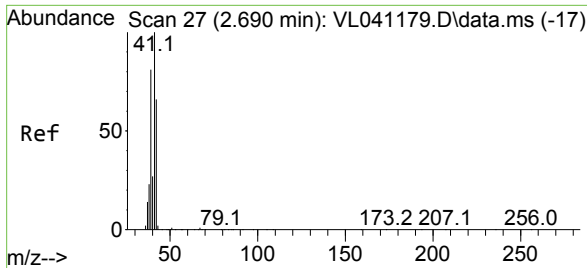
Tgt Ion: 50 Resp: 32023
Ion Ratio Lower Upper
50 100
52 23.4 28.3 42.5#



#7
Chloroethane
Concen: 0.044 ppbv
RT: 3.205 min Scan# 187
Delta R.T. 0.000 min
Lab File: VL041220.D
Acq: 6 May 2024 16:19

Tgt Ion: 64 Resp: 804
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#

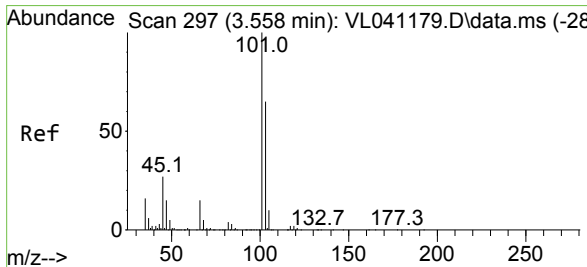
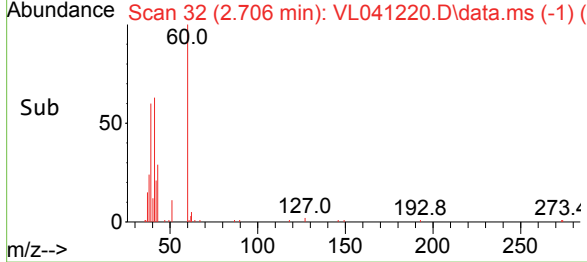
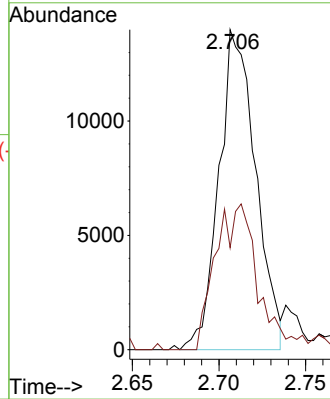
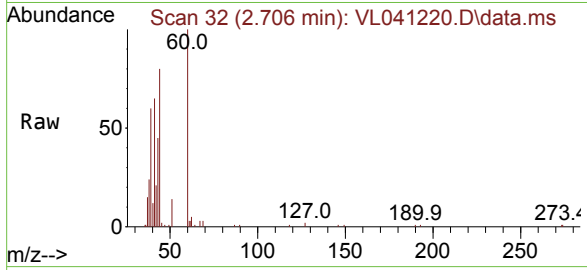




#9
Propene
Concen: 0.397 ppbv
RT: 2.706 min Scan# 301
Delta R.T. 0.003 min
Lab File: VL041220.D
Acq: 6 May 2024 16:19

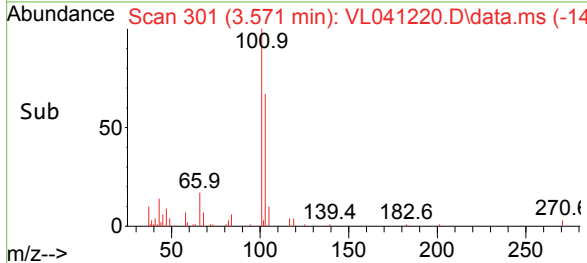
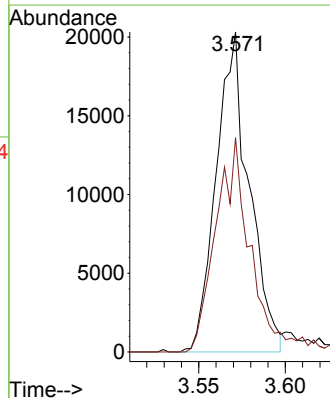
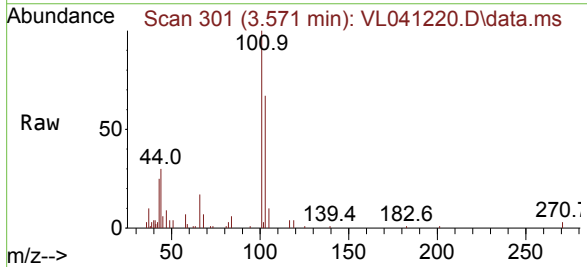
Instrument :
MSVOA_L
ClientSampleId :
BA-20-AA01-20240425

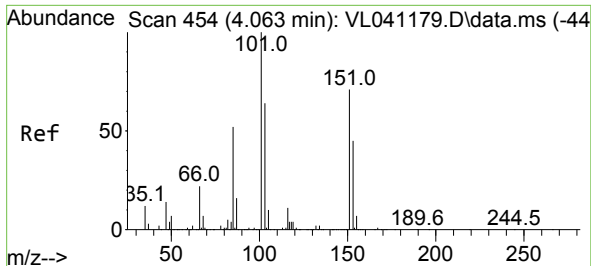
Tgt Ion: 41 Resp: 20632
Ion Ratio Lower Upper
41 100
42 56.1 55.3 82.9



#11
Trichlorofluoromethane
Concen: 0.223 ppbv
RT: 3.571 min Scan# 301
Delta R.T. 0.003 min
Lab File: VL041220.D
Acq: 6 May 2024 16:19

Tgt Ion: 101 Resp: 26853
Ion Ratio Lower Upper
101 100
103 67.0 51.6 77.4

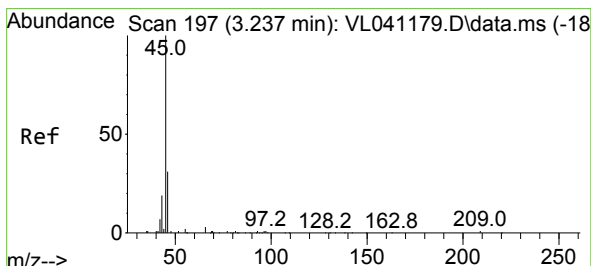
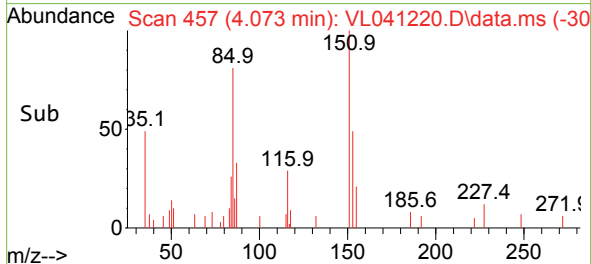
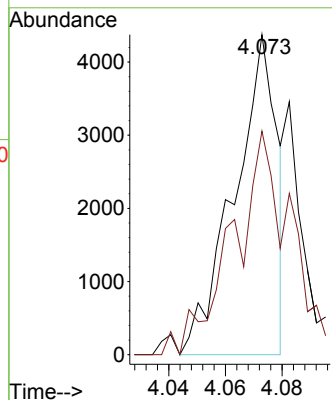
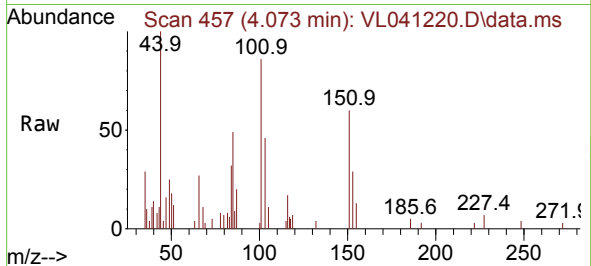




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.052 ppbv
RT: 4.073 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL041220.D
Acq: 6 May 2024 16:19

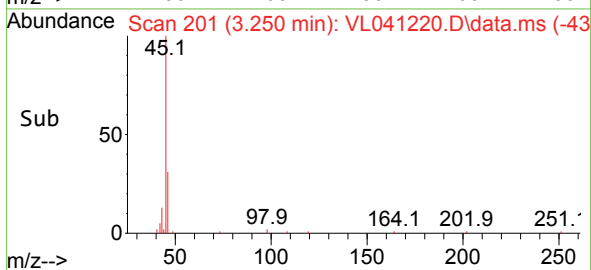
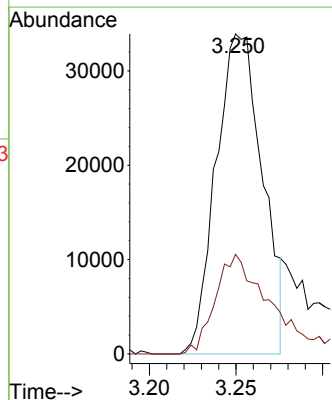
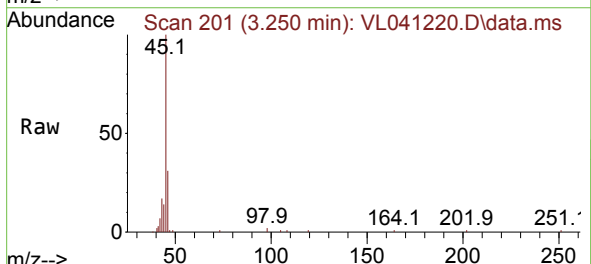
Instrument :
MSVOA_L
ClientSampleId :
BA-20-AA01-20240425

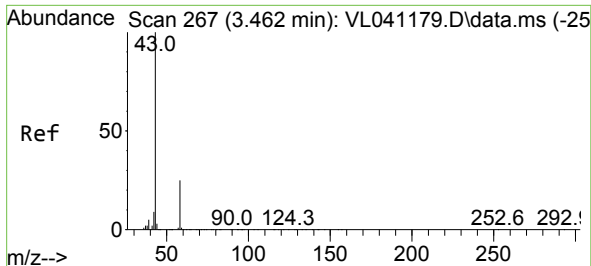
Tgt Ion:101 Resp: 4582
Ion Ratio Lower Upper
101 100
151 104.6 56.8 85.2#



#13
Ethanol
Concen: 5.414 ppbv
RT: 3.250 min Scan# 201
Delta R.T. 0.007 min
Lab File: VL041220.D
Acq: 6 May 2024 16:19

Tgt Ion: 45 Resp: 63075
Ion Ratio Lower Upper
45 100
46 40.0 14.8 59.0





#15

Acetone

Concen: 4.319 ppbv

RT: 3.475 min Scan# 21

Delta R.T. 0.000 min

Lab File: VL041220.D

Acq: 6 May 2024 16:19

Instrument :

MSVOA_L

ClientSampleId :

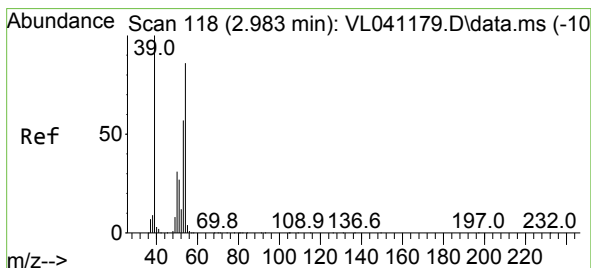
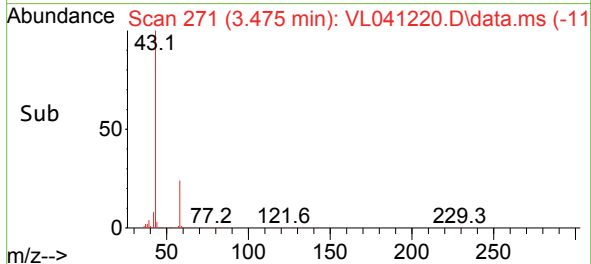
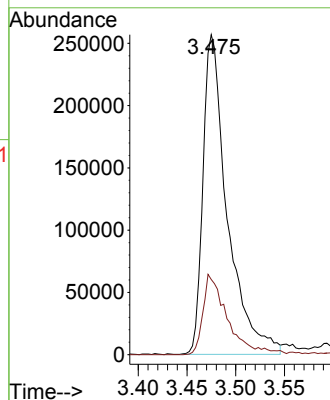
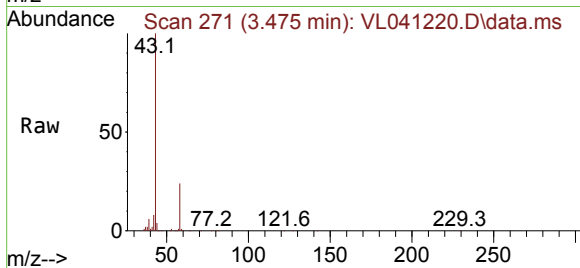
BA-20-AA01-20240425

Tgt Ion: 43 Resp: 445688

Ion Ratio Lower Upper

43 100

58 25.7 21.4 32.0



#16

1,3-Butadiene

Concen: 0.107 ppbv

RT: 2.970 min Scan# 114

Delta R.T. -0.022 min

Lab File: VL041220.D

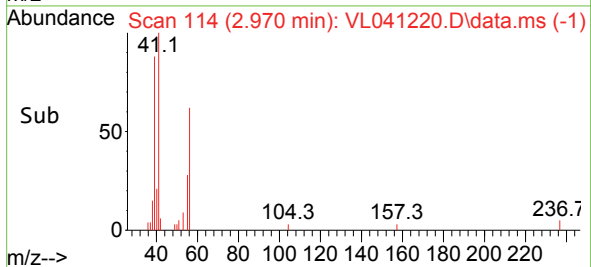
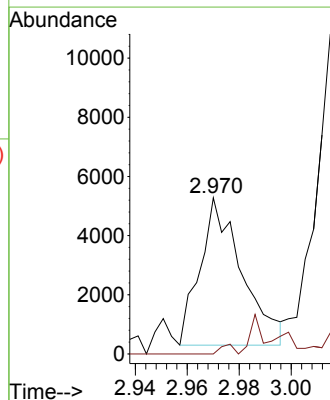
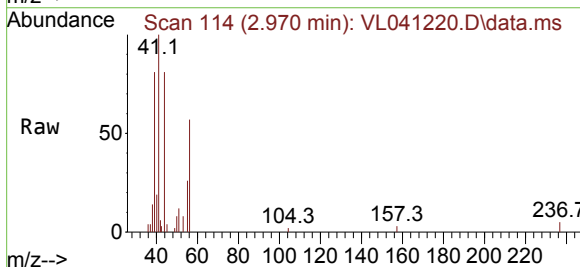
Acq: 6 May 2024 16:19

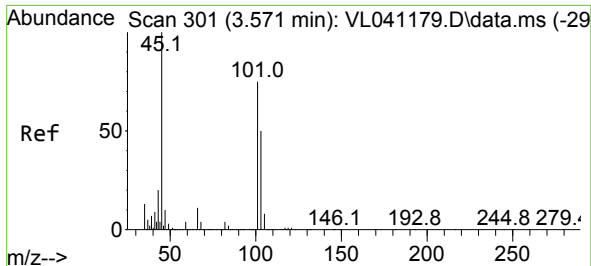
Tgt Ion: 39 Resp: 5581

Ion Ratio Lower Upper

39 100

54 21.7 62.2 93.4#

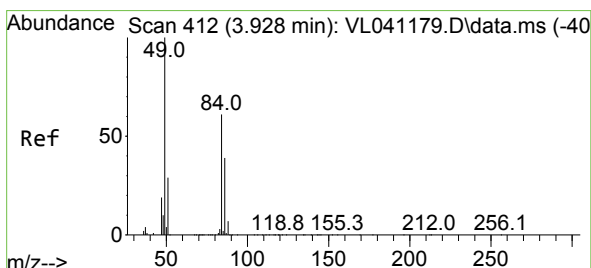
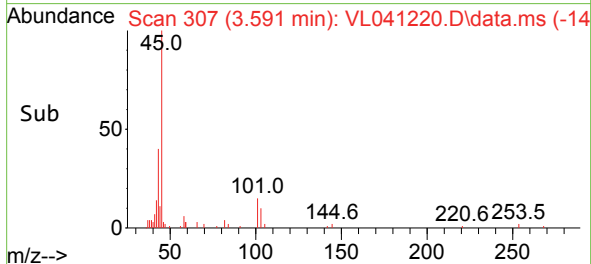
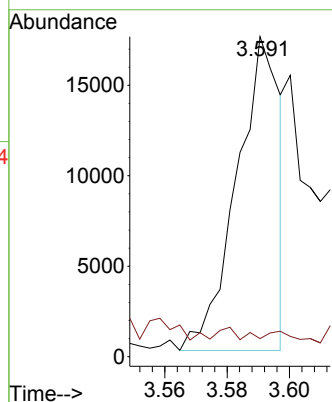
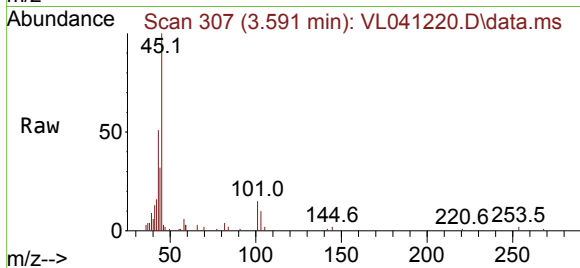




#19
Isopropyl Alcohol
Concen: 0.245 ppbv
RT: 3.591 min Scan# 301
Delta R.T. 0.010 min
Lab File: VL041220.D
Acq: 6 May 2024 16:19

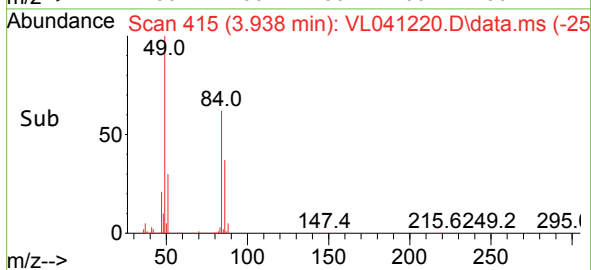
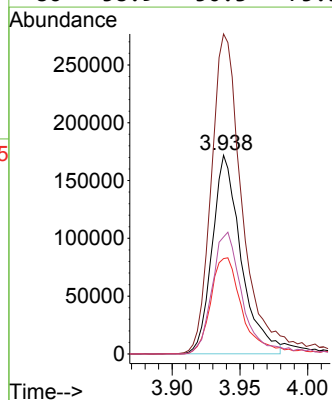
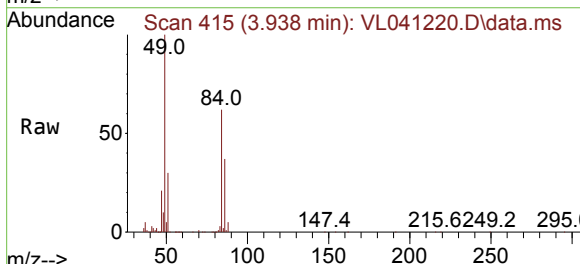
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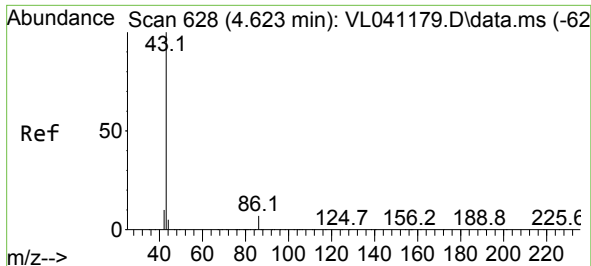
Tgt Ion: 45 Resp: 16586
Ion Ratio Lower Upper
45 100
58 0.0 26.8 40.2#



#20
Methylene Chloride
Concen: 7.083 ppbv
RT: 3.938 min Scan# 415
Delta R.T. 0.000 min
Lab File: VL041220.D
Acq: 6 May 2024 16:19

Tgt Ion: 84 Resp: 254182
Ion Ratio Lower Upper
84 100
49 160.9 130.4 195.6
51 48.0 38.0 57.0
86 58.9 50.3 75.5

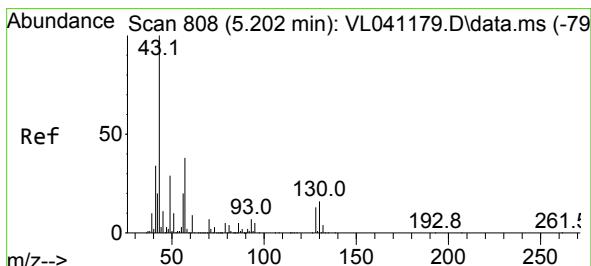
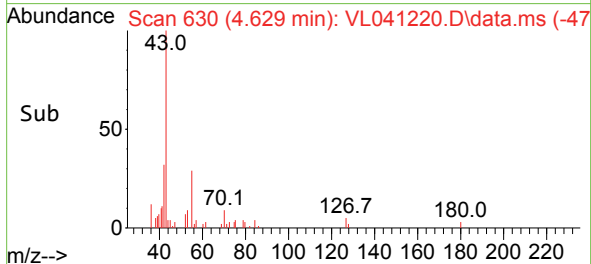
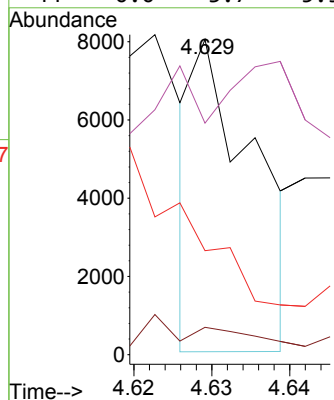
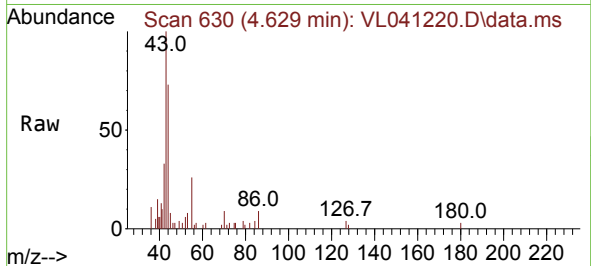




#23
 Vinyl Acetate
 Concen: 0.038 ppbv
 RT: 4.629 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL041220.D
 Acq: 6 May 2024 16:19

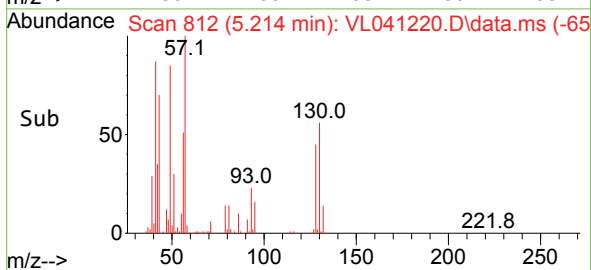
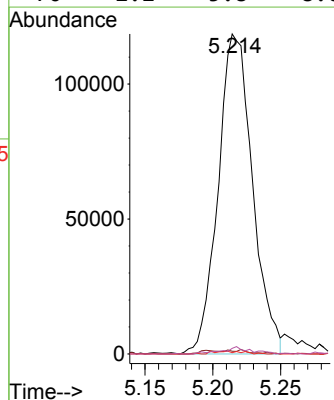
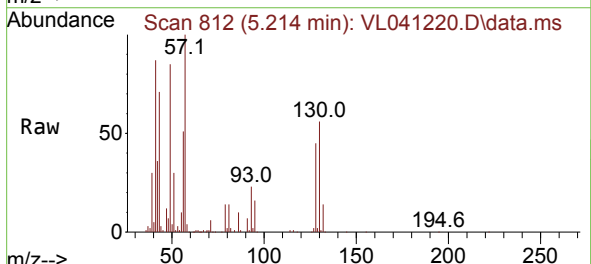
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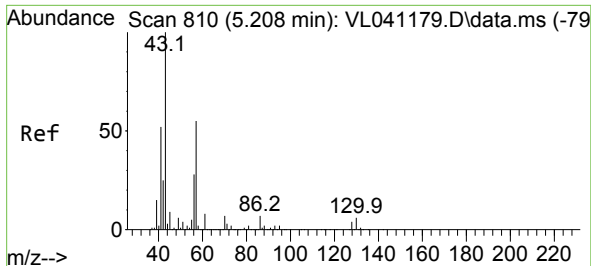
Tgt Ion:	43	Resp:	4324
Ion	Ratio	Lower	Upper
43	100		
86	9.3	4.9	7.3#
42	35.8	8.0	12.0#
44	0.0	3.7	5.5#



#25
 Ethyl Acetate
 Concen: 1.014 ppbv
 RT: 5.214 min Scan# 812
 Delta R.T. 0.010 min
 Lab File: VL041220.D
 Acq: 6 May 2024 16:19

Tgt Ion:	43	Resp:	208799
Ion	Ratio	Lower	Upper
43	100		
45	1.6	8.2	12.2#
61	0.8	7.7	11.5#
70	2.2	5.8	8.6#

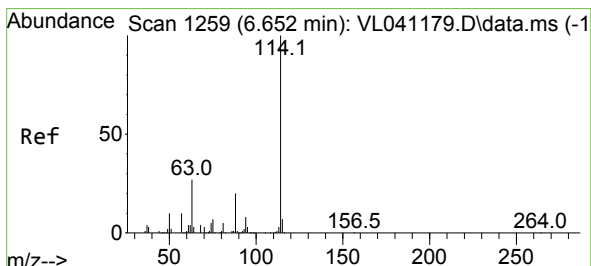
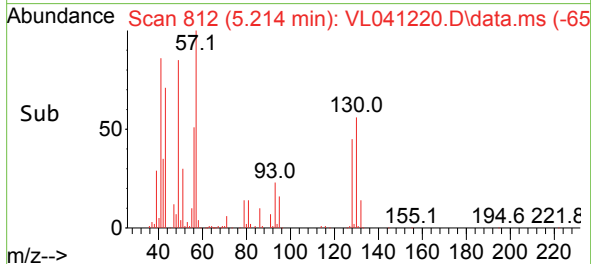
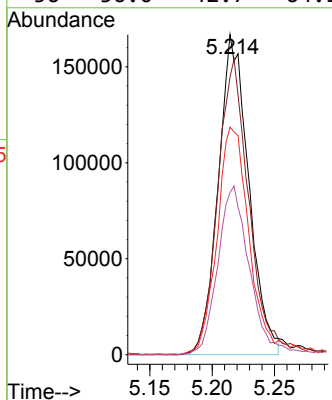
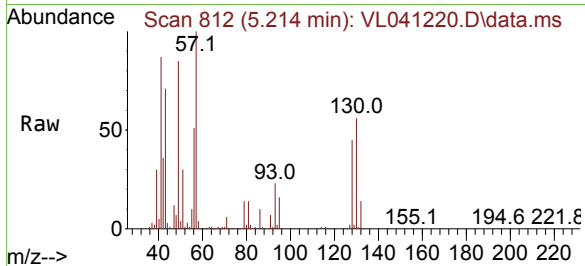




#26
Hexane
Concen: 3.088 ppbv
RT: 5.214 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL041220.D
Acq: 6 May 2024 16:19

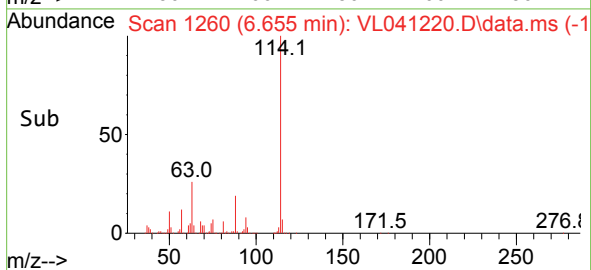
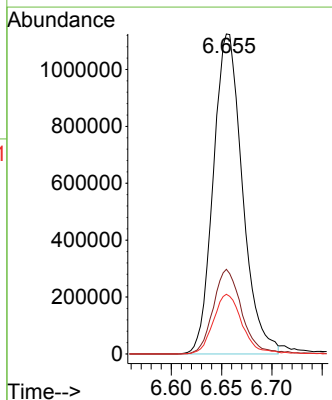
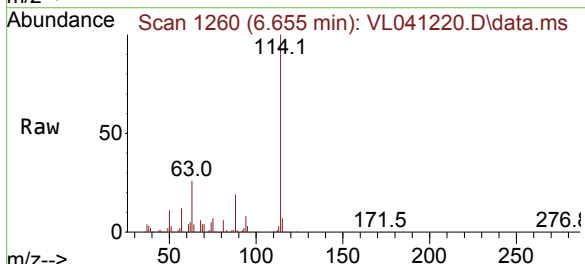
Instrument :
MSVOA_L
ClientSampleId :
BA-20-AA01-20240425

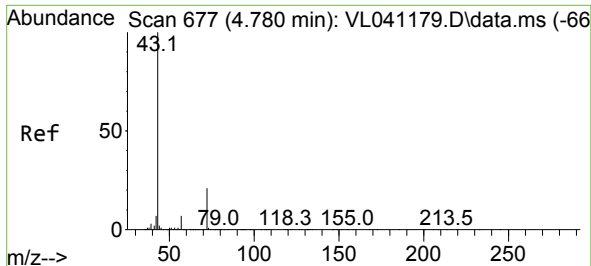
Tgt Ion: 57 Resp: 283826
Ion Ratio Lower Upper
57 100
41 96.6 75.8 113.8
43 76.5 187.0 280.4#
56 56.0 42.7 64.1



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.655 min Scan# 1260
Delta R.T. 0.000 min
Lab File: VL041220.D
Acq: 6 May 2024 16:19

Tgt Ion:114 Resp: 2265298
Ion Ratio Lower Upper
114 100
63 26.3 21.8 32.6
88 18.7 15.2 22.8

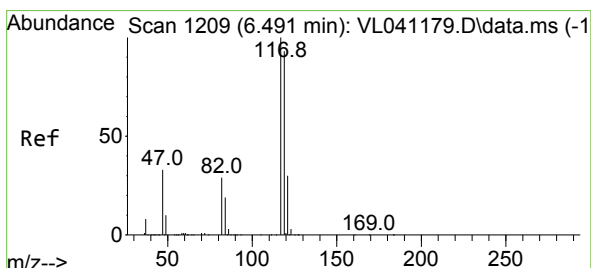
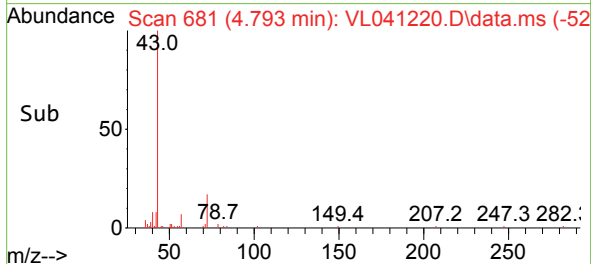
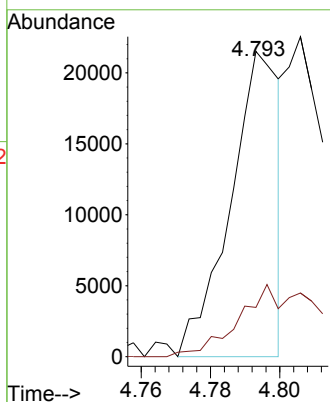
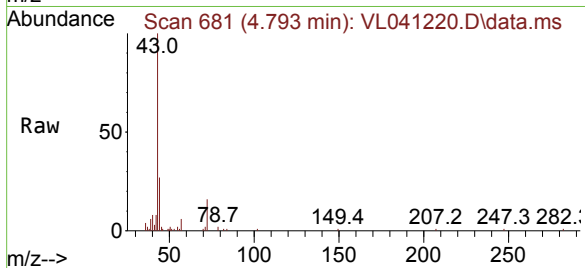




#34
2-Butanone
Concen: 0.183 ppbv
RT: 4.793 min Scan# 61
Delta R.T. 0.007 min
Lab File: VL041220.D
Acq: 6 May 2024 16:19

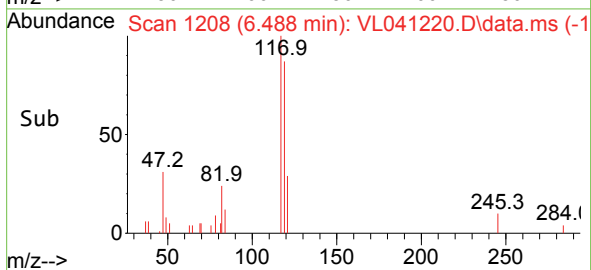
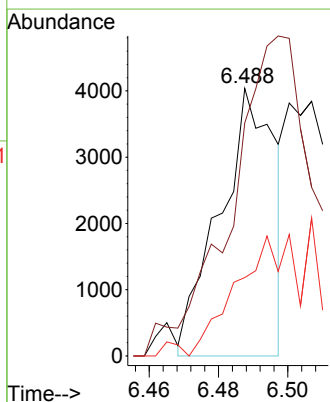
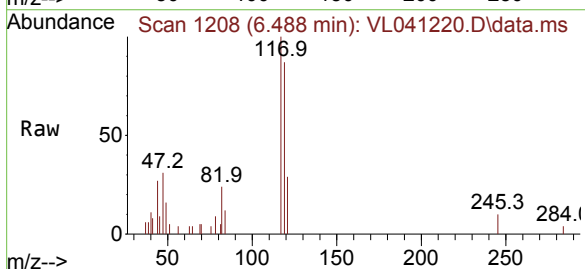
Instrument :
MSVOA_L
ClientSampleId :
BA-20-AA01-20240425

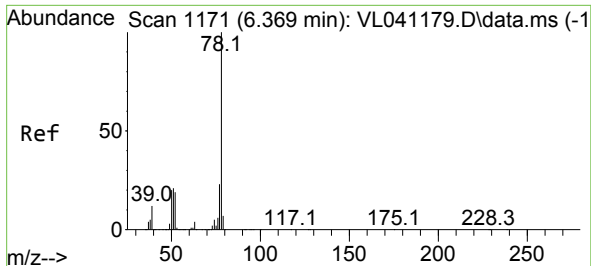
Tgt Ion: 43 Resp: 21056
Ion Ratio Lower Upper
43 100
72 52.6 17.3 25.9#



#35
Carbon Tetrachloride
Concen: 0.035 ppbv
RT: 6.488 min Scan# 1208
Delta R.T. -0.006 min
Lab File: VL041220.D
Acq: 6 May 2024 16:19

Tgt Ion: 117 Resp: 4433
Ion Ratio Lower Upper
117 100
119 79.8 74.3 111.5
121 26.2 23.8 35.8





#36

Benzene

Concen: 0.067 ppbv

RT: 6.375 min Scan# 1171

Delta R.T. 0.003 min

Lab File: VL041220.D

Acq: 6 May 2024 16:19

Instrument :

MSVOA_L

ClientSampleId :

BA-20-AA01-20240425

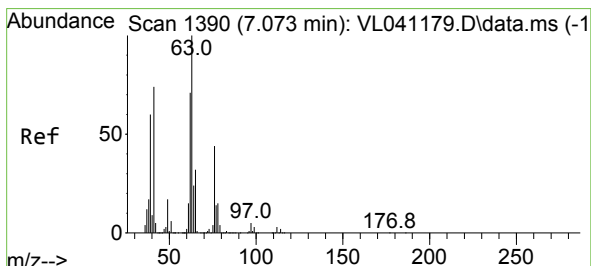
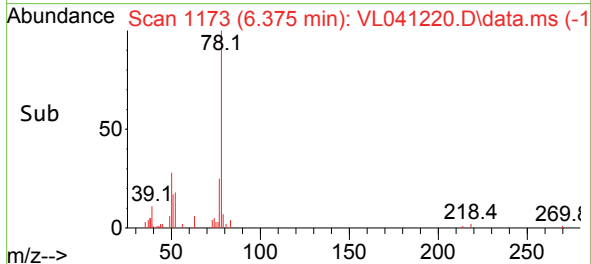
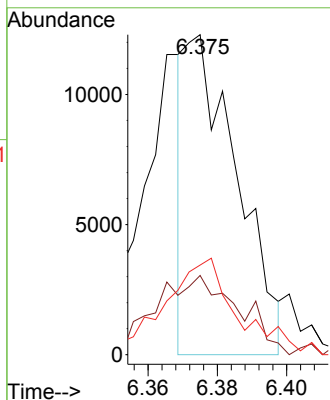
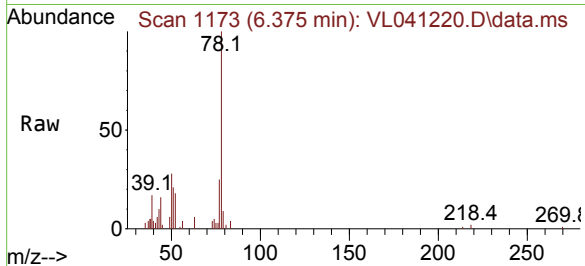
Tgt Ion: 78 Resp: 12721

Ion Ratio Lower Upper

78 100

77 25.8 18.3 27.5

50 23.4 15.9 23.9



#39

1,2-Dichloropropane

Concen: 8.030 ppbv

RT: 6.655 min Scan# 1260

Delta R.T. -0.418 min

Lab File: VL041220.D

Acq: 6 May 2024 16:19

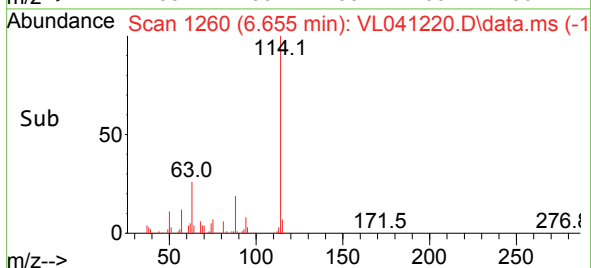
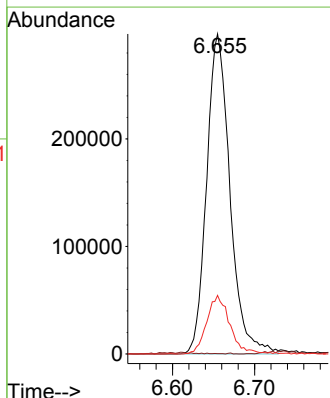
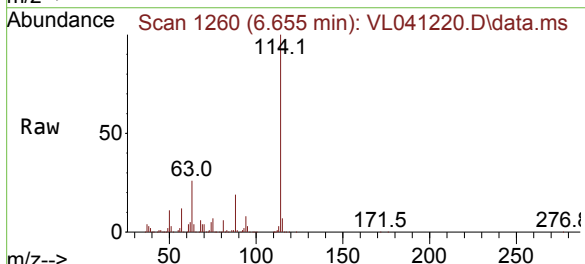
Tgt Ion: 63 Resp: 588291

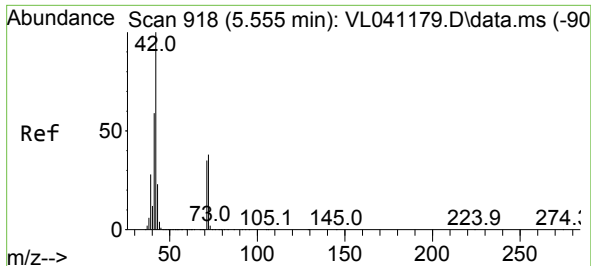
Ion Ratio Lower Upper

63 100

41 0.0 59.4 89.0#

62 18.3 56.8 85.2#





#41

Tetrahydrofuran

Concen: 1.274 ppbv

RT: 5.214 min Scan# 81

Delta R.T. -0.344 min

Lab File: VL041220.D

Acq: 6 May 2024 16:19

Instrument :

MSVOA_L

ClientSampleId :

BA-20-AA01-20240425

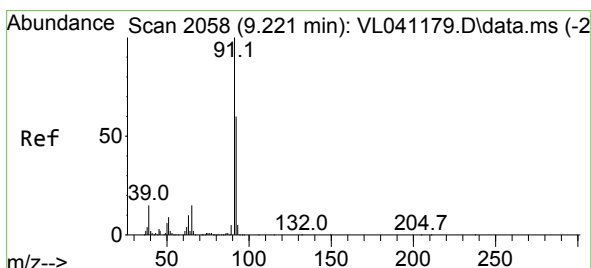
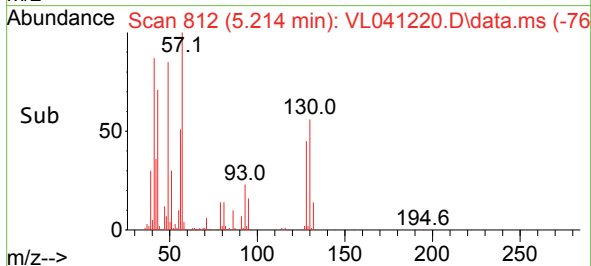
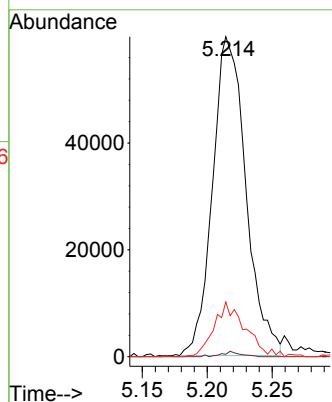
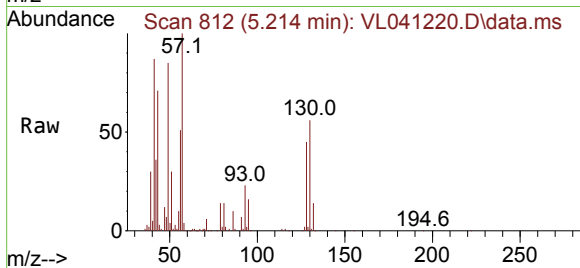
Tgt Ion: 42 Resp: 106325

Ion Ratio Lower Upper

42 100

72 0.9 29.4 44.0#

71 16.5 29.1 43.7#



#53

Toluene

Concen: 0.131 ppbv

RT: 9.224 min Scan# 2059

Delta R.T. 0.003 min

Lab File: VL041220.D

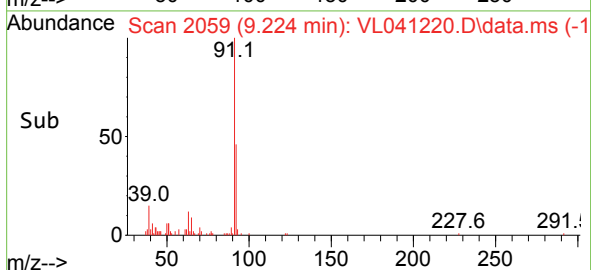
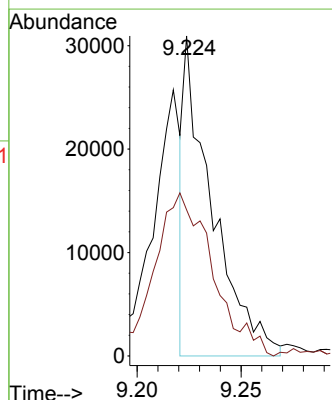
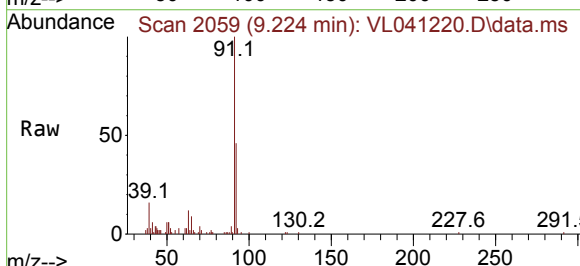
Acq: 6 May 2024 16:19

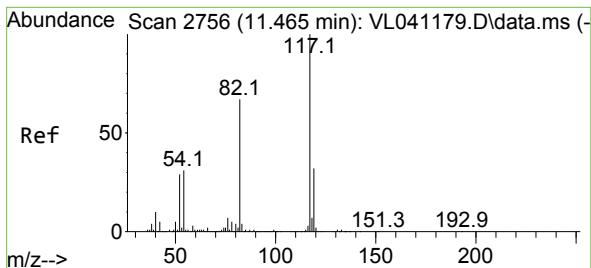
Tgt Ion: 91 Resp: 28984

Ion Ratio Lower Upper

91 100

92 111.1 48.2 72.4#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.468 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL041220.D

Acq: 6 May 2024 16:19

Instrument :

MSVOA_L

ClientSampleId :

BA-20-AA01-20240425

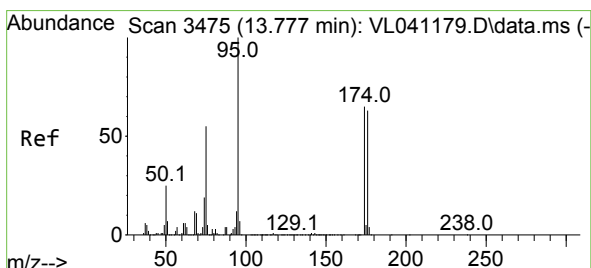
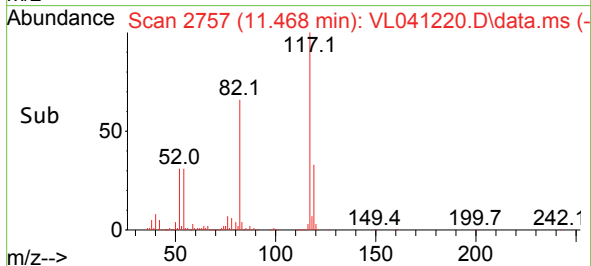
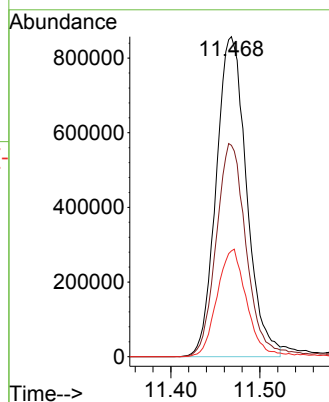
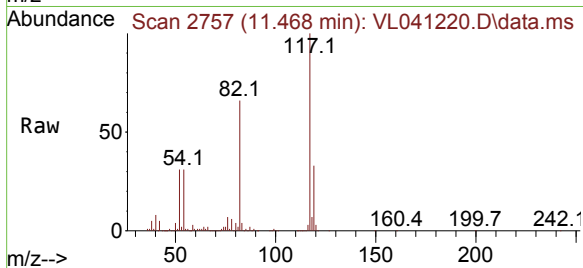
Tgt Ion:117 Resp: 2029451

Ion Ratio Lower Upper

117 100

82 68.2 53.6 80.4

119 33.7 27.2 40.8



#68

1-Bromo-4-Fluorobenzene

Concen: 10.115 ppbv

RT: 13.777 min Scan# 3475

Delta R.T. 0.003 min

Lab File: VL041220.D

Acq: 6 May 2024 16:19

Tgt Ion: 95 Resp: 1549778

Ion Ratio Lower Upper

95 100

174 67.5 53.6 80.4

175 5.0 4.2 6.4

