

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072924\
 Data File : VL041450.D
 Acq On : 30 Jul 2024 5:14
 Operator : SY/MD
 Sample : P3342-13
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ACVI-AA01DL

Quant Time: Jul 30 06:49:12 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jul 30 02:42:20 2024
 Response via : Initial Calibration

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

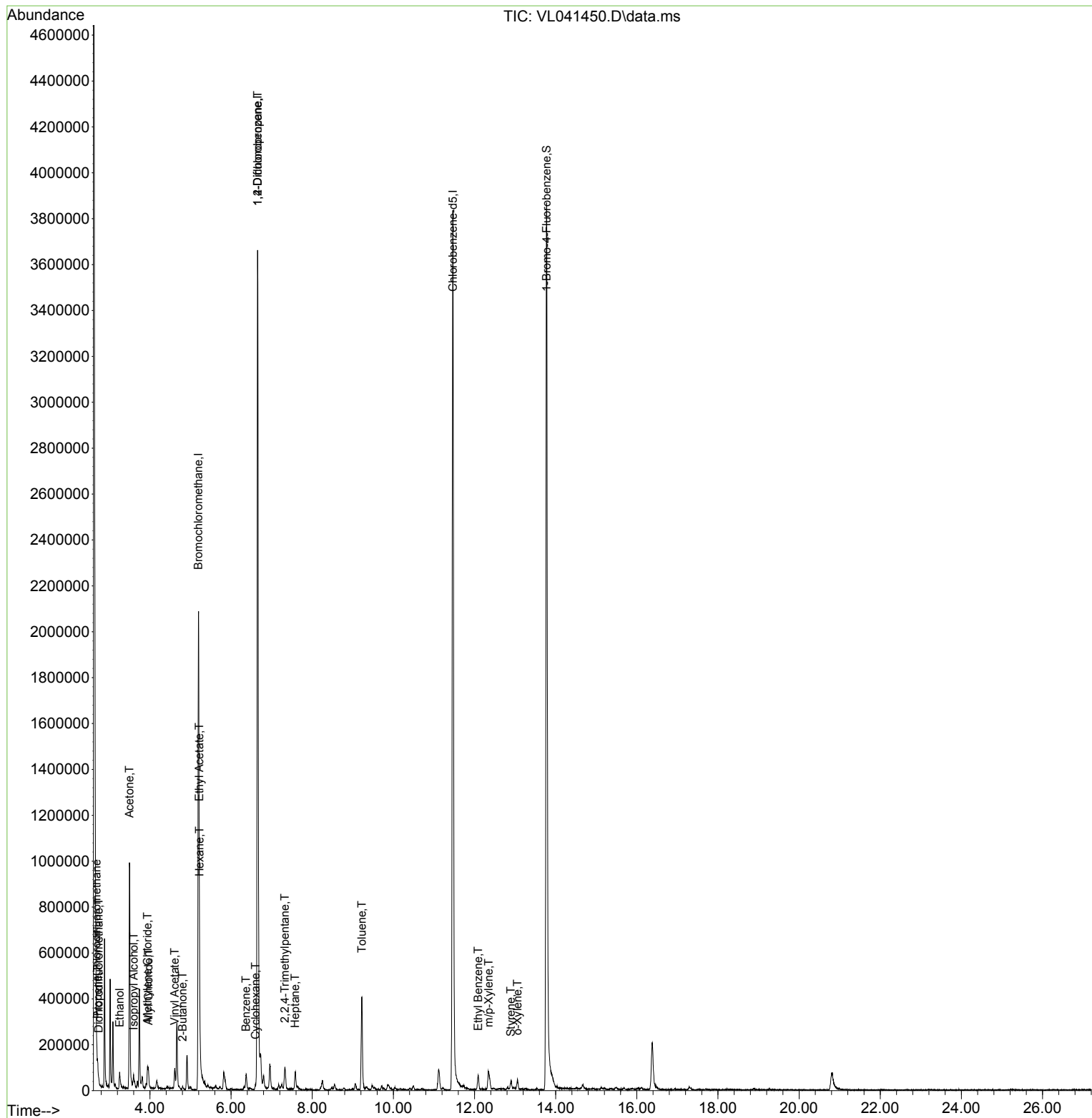
Internal Standards						
1) Bromochloromethane	5.195	49	1045510	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.655	114	2813918	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	2570607	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.773	95	1971240	9.965	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.735	85	7418	0.041	ppbv #	84
3) Chlorodifluoromethane	2.681	51	4509	0.036	ppbv #	91
9) Propene	2.716	41	10395	0.182	ppbv	92
10) Heptane	7.581	43	30086	0.234	ppbv	93
13) Ethanol	3.253	45	84452	16.526	ppbv	98
15) Acetone	3.497	43	384341	3.235	ppbv #	65
19) Isopropyl Alcohol	3.597	45	56498	0.814	ppbv #	93
20) Methylene Chloride	3.941	84	29554	0.667	ppbv #	87
21) Allyl Chloride	3.963	41	9180	0.118	ppbv #	7
23) Vinyl Acetate	4.610	43	28509	0.314	ppbv #	1
25) Ethyl Acetate	5.214	43	101410	0.430	ppbv #	88
26) Hexane	5.221	57	117722	1.202	ppbv #	42
30) Cyclohexane	6.603	84	5346	0.067	ppbv #	8
34) 2-Butanone	4.806	43	10829	0.080	ppbv #	81
36) Benzene	6.365	78	19020	0.093	ppbv	97
39) 1,2-Dichloropropane	6.655	63	691667	8.787	ppbv #	25
44) 2,2,4-Trimethylpentane	7.327	57	47161	0.137	ppbv #	37
53) Toluene	9.220	91	317469	1.386	ppbv	100
58) Ethyl Benzene	12.089	91	52795	0.178	ppbv	94
59) m/p-Xylene	12.346	91	50333	0.197	ppbv #	43
60) o-Xylene	13.060	91	23161	0.096	ppbv	71
61) Styrene	12.896	104	12871	0.118	ppbv #	30

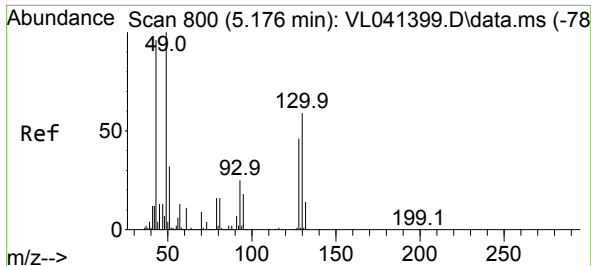
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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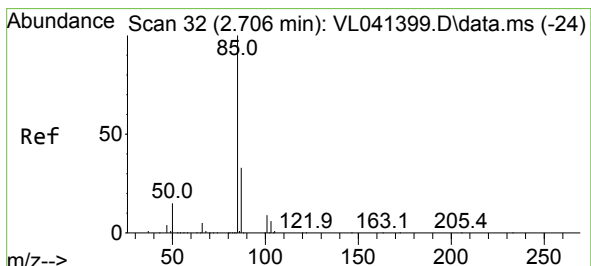
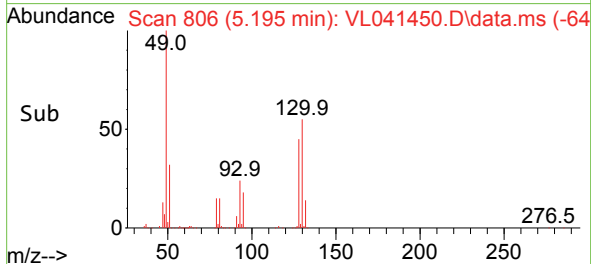
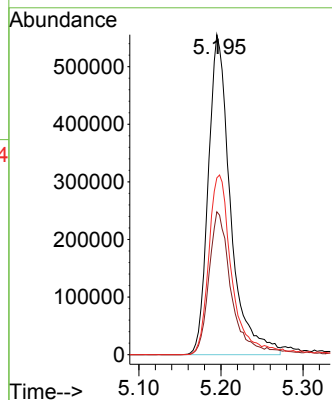
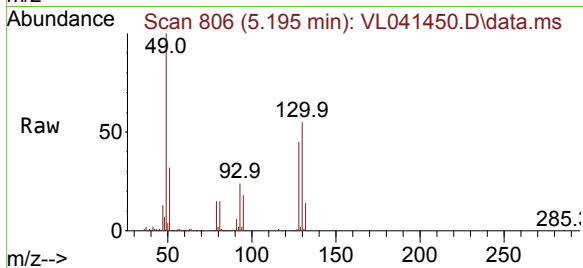




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.195 min Scan# 80
 Delta R.T. 0.016 min
 Lab File: VL041450.D
 Acq: 30 Jul 2024 5:14

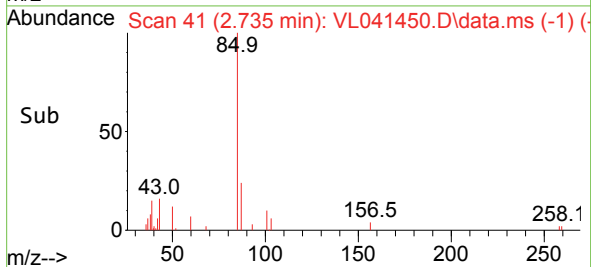
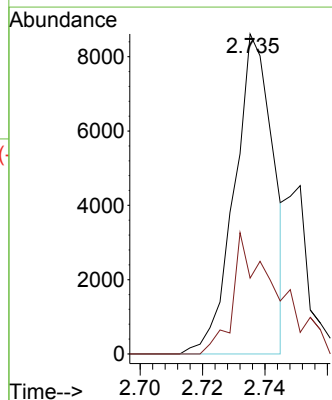
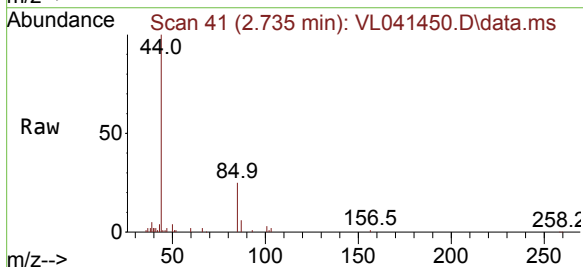
Instrument :
 MSVOA_L
 ClientSampleId :
 ACVI-AA01DL

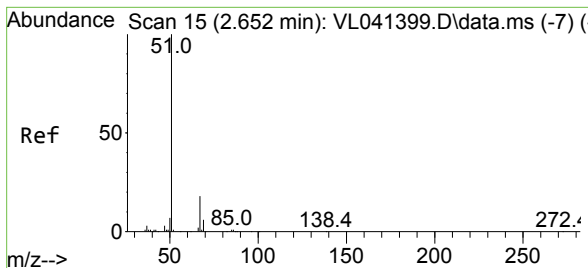
Tgt Ion: 49 Resp: 1045510
 Ion Ratio Lower Upper
 49 100
 128 46.1 23.8 71.4
 130 60.6 30.8 92.4



#2
 Dichlorodifluoromethane
 Concen: 0.041 ppbv
 RT: 2.735 min Scan# 41
 Delta R.T. 0.026 min
 Lab File: VL041450.D
 Acq: 30 Jul 2024 5:14

Tgt Ion: 85 Resp: 7418
 Ion Ratio Lower Upper
 85 100
 87 23.7 26.0 39.0

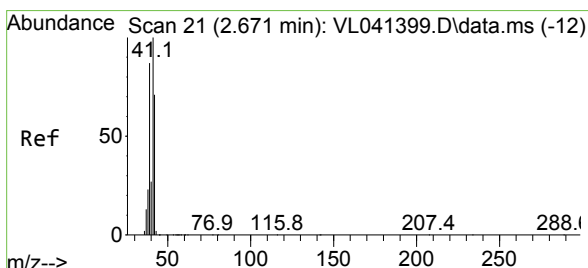
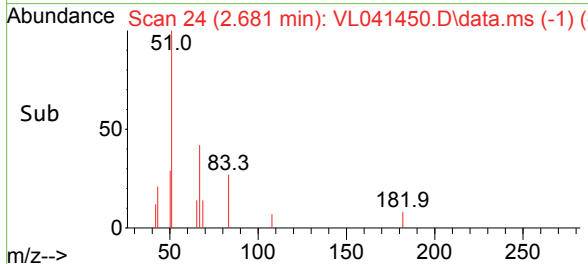
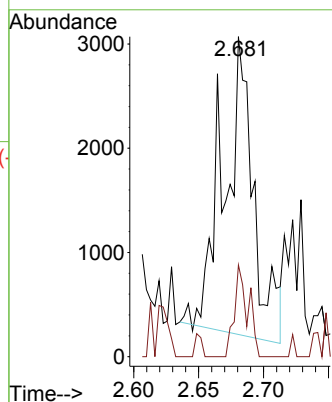
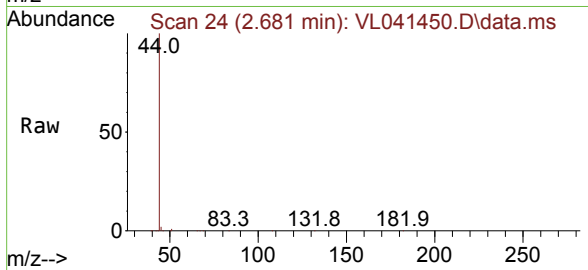




#3
Chlorodifluoromethane
Concen: 0.036 ppbv
RT: 2.681 min Scan# 24
Delta R.T. 0.026 min
Lab File: VL041450.D
Acq: 30 Jul 2024 5:14

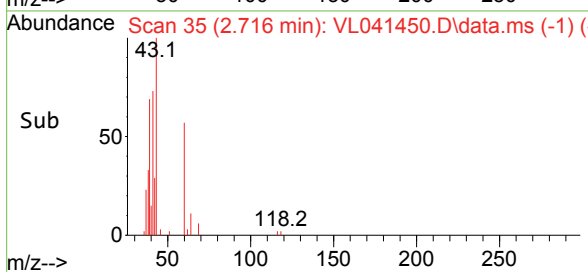
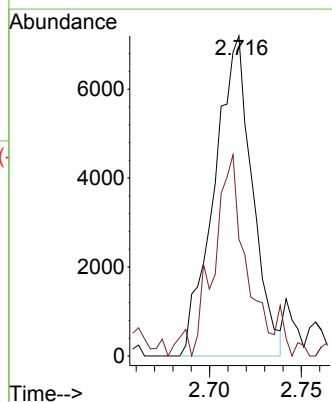
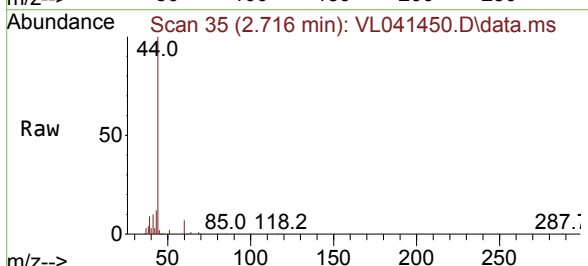
Instrument :
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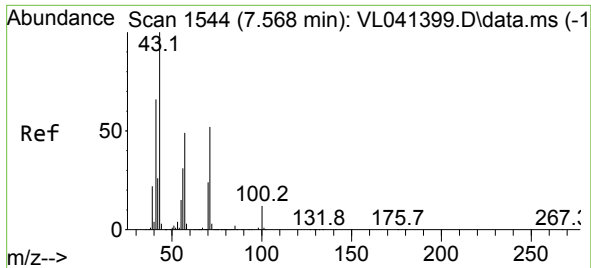
Tgt Ion: 51 Resp: 4509
Ion Ratio Lower Upper
51 100
67 14.3 14.5 21.7#



#9
Propene
Concen: 0.182 ppbv
RT: 2.716 min Scan# 35
Delta R.T. 0.045 min
Lab File: VL041450.D
Acq: 30 Jul 2024 5:14

Tgt Ion: 41 Resp: 10395
Ion Ratio Lower Upper
41 100
42 63.3 55.9 83.9





#10

Heptane

Concen: 0.234 ppbv

RT: 7.581 min Scan# 11

Delta R.T. 0.010 min

Lab File: VL041450.D

Acq: 30 Jul 2024 5:14

Instrument :

MSVOA_L

ClientSampleId :

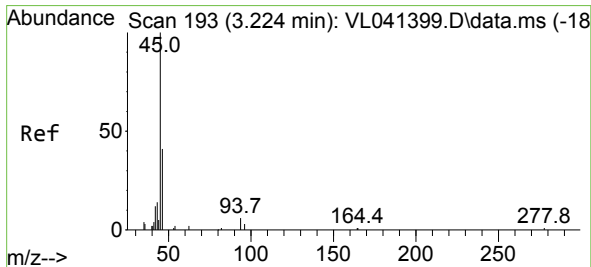
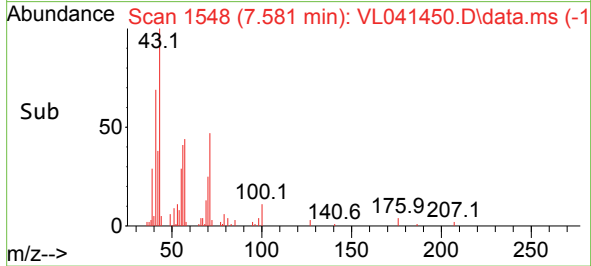
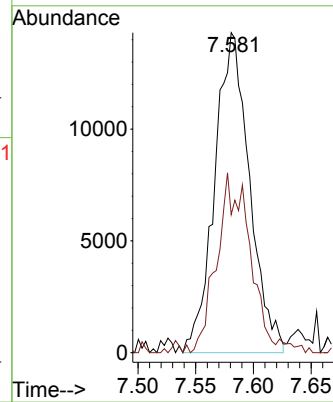
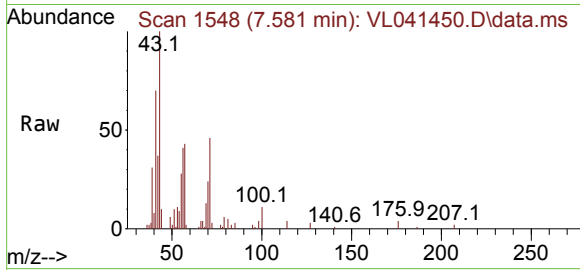
ACVI-AA01DL

Tgt Ion: 43 Resp: 30086

Ion Ratio Lower Upper

43 100

57 55.2 40.5 60.7



#13

Ethanol

Concen: 16.526 ppbv

RT: 3.253 min Scan# 202

Delta R.T. 0.026 min

Lab File: VL041450.D

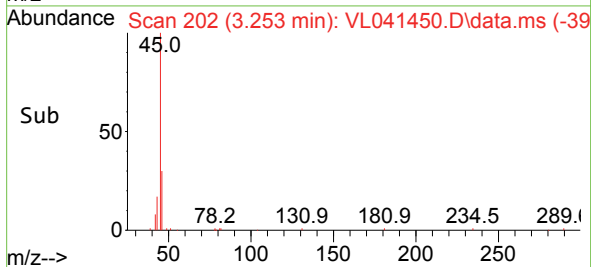
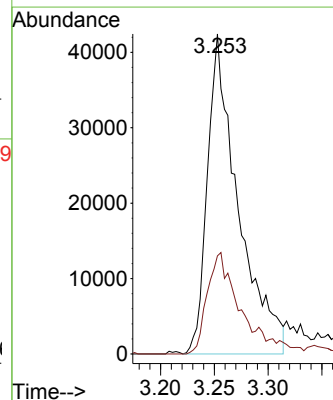
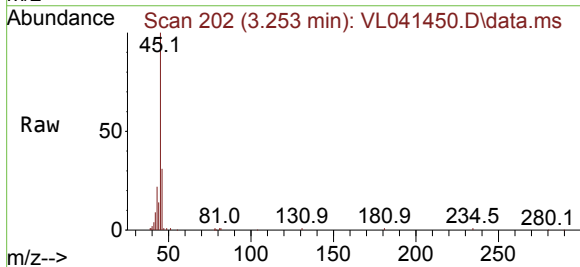
Acq: 30 Jul 2024 5:14

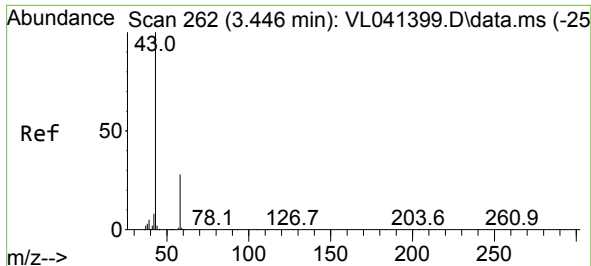
Tgt Ion: 45 Resp: 84452

Ion Ratio Lower Upper

45 100

46 34.8 13.4 53.4

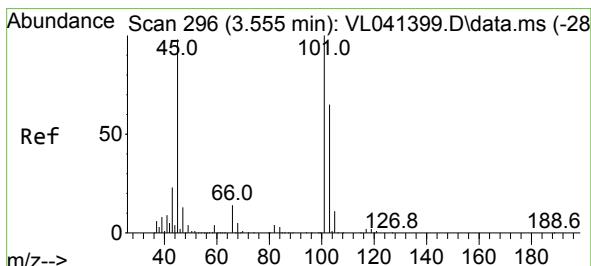
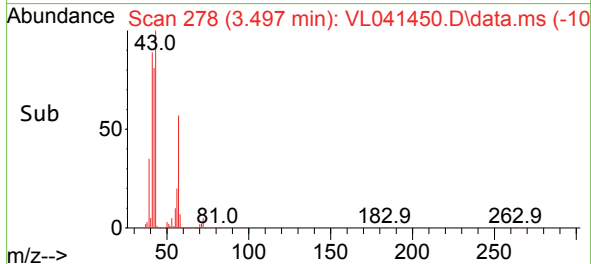
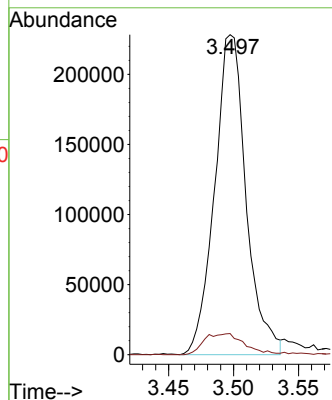
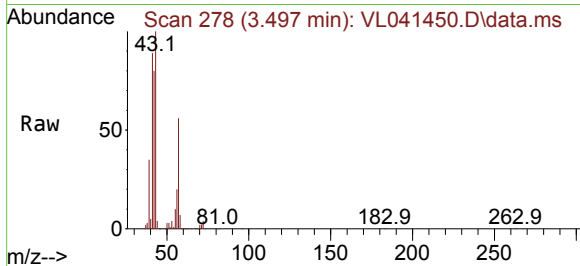




#15
Acetone
Concen: 3.235 ppbv
RT: 3.497 min Scan# 21
Delta R.T. 0.045 min
Lab File: VL041450.D
Acq: 30 Jul 2024 5:14

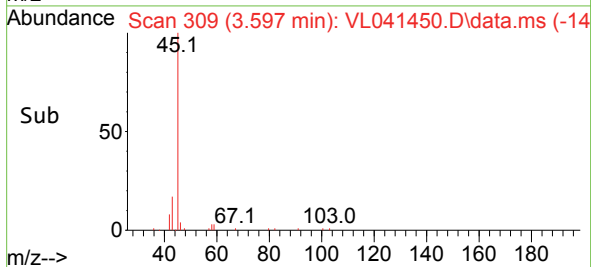
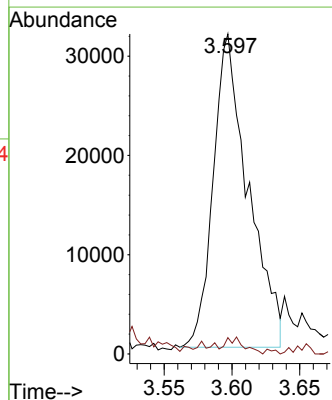
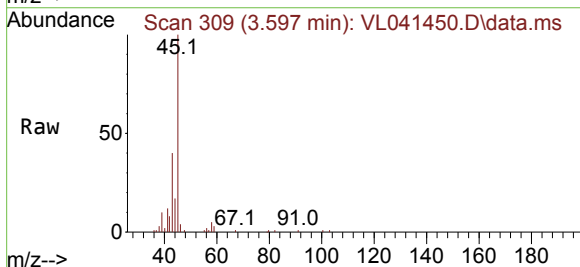
Instrument :
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ACVI-AA01DL

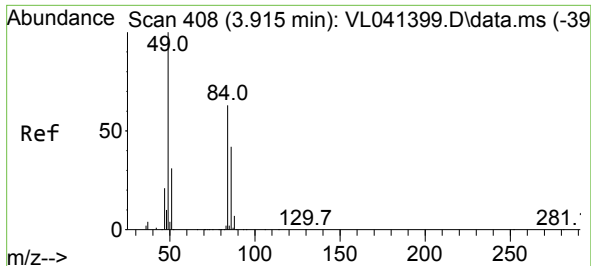
Tgt Ion: 43 Resp: 384341
Ion Ratio Lower Upper
43 100
58 8.9 21.4 32.2#



#19
Isopropyl Alcohol
Concen: 0.814 ppbv
RT: 3.597 min Scan# 309
Delta R.T. 0.035 min
Lab File: VL041450.D
Acq: 30 Jul 2024 5:14

Tgt Ion: 45 Resp: 56498
Ion Ratio Lower Upper
45 100
58 4.9 1.9 2.9#

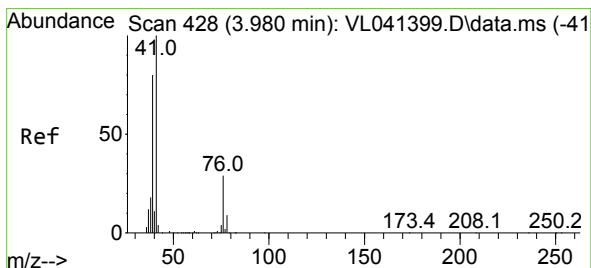
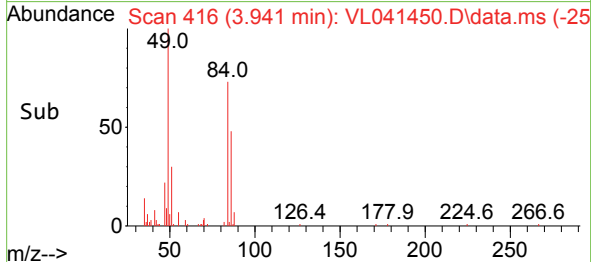
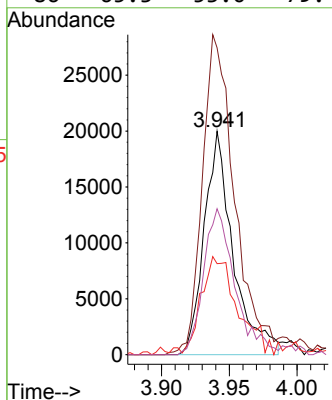
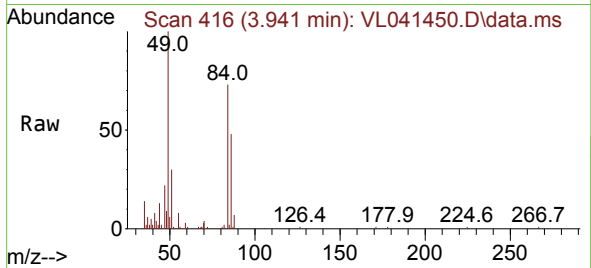




#20
Methylene Chloride
Concen: 0.667 ppbv
RT: 3.941 min Scan# 416
Delta R.T. 0.022 min
Lab File: VL041450.D
Acq: 30 Jul 2024 5:14

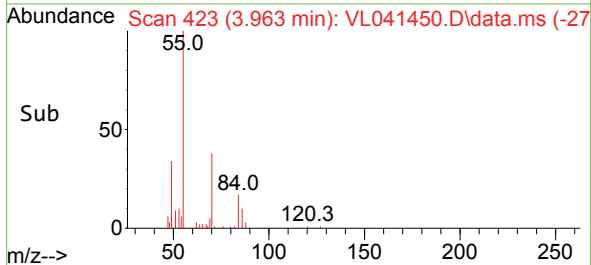
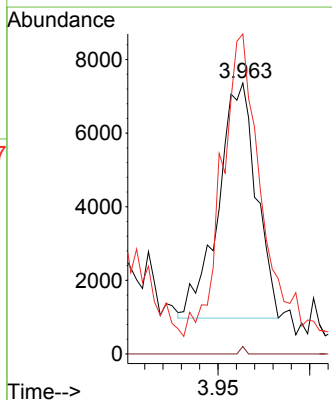
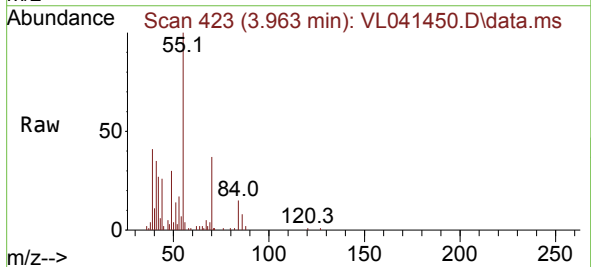
Instrument :
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ClientSampleId :
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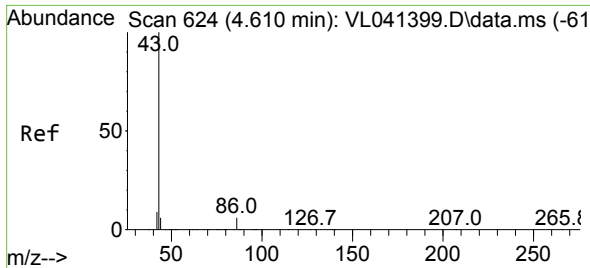
Tgt Ion: 84	Resp: 29554
Ion Ratio	Lower Upper
84 100	
49 135.5	126.6 190.0
51 37.7	38.6 58.0#
86 65.3	53.0 79.4



#21
Allyl Chloride
Concen: 0.118 ppbv
RT: 3.963 min Scan# 423
Delta R.T. -0.016 min
Lab File: VL041450.D
Acq: 30 Jul 2024 5:14

Tgt Ion: 41	Resp: 9180
Ion Ratio	Lower Upper
41 100	
76 0.4	23.7 35.5#
39 174.9	64.3 96.5#

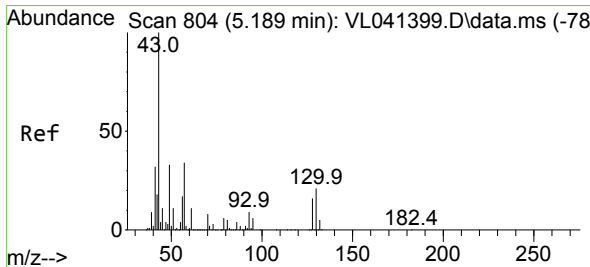
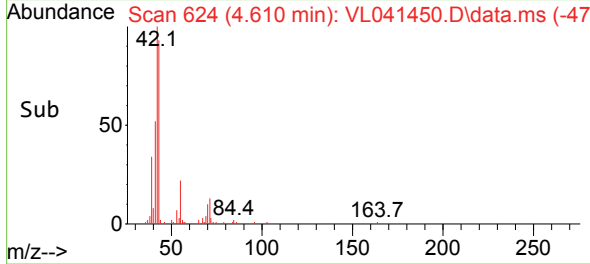
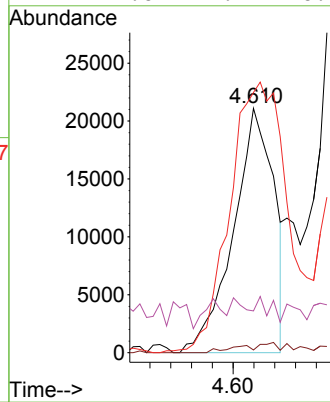
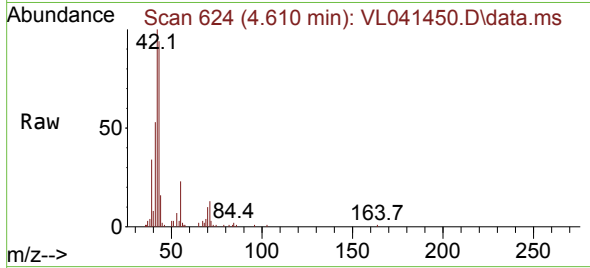




#23
 Vinyl Acetate
 Concen: 0.314 ppbv
 RT: 4.610 min Scan# 61
 Delta R.T. -0.003 min
 Lab File: VL041450.D
 Acq: 30 Jul 2024 5:14

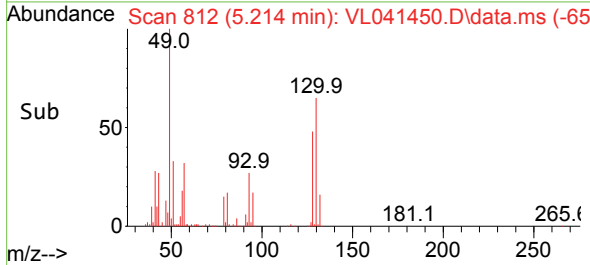
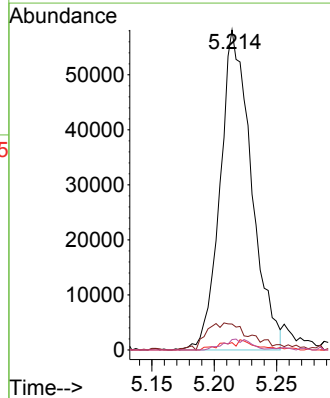
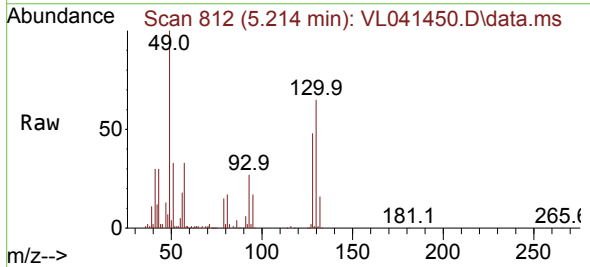
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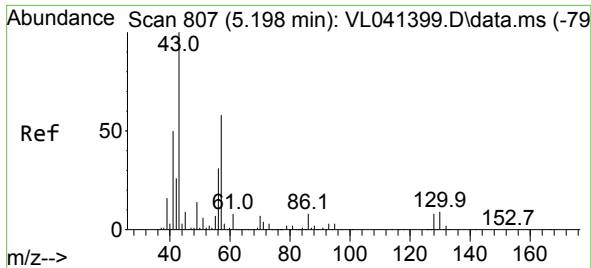
Tgt Ion:	43	Resp:	28509
Ion	Ratio	Lower	Upper
43	100		
86	1.1	4.6	6.8#
42	105.3	7.9	11.9#
44	4.6	4.2	6.4



#25
 Ethyl Acetate
 Concen: 0.430 ppbv
 RT: 5.214 min Scan# 812
 Delta R.T. 0.022 min
 Lab File: VL041450.D
 Acq: 30 Jul 2024 5:14

Tgt Ion:	43	Resp:	101410
Ion	Ratio	Lower	Upper
43	100		
45	13.0	8.5	12.7#
61	3.4	8.0	12.0#
70	3.3	5.9	8.9#

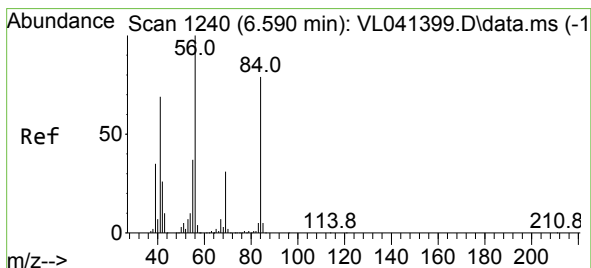
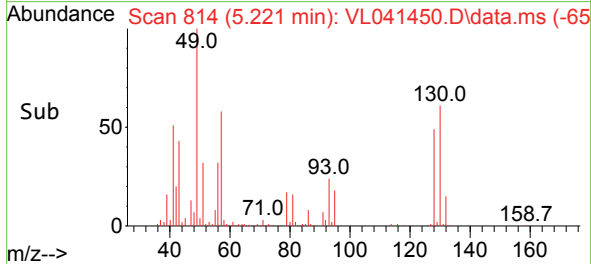
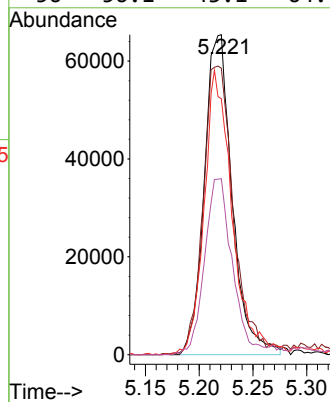
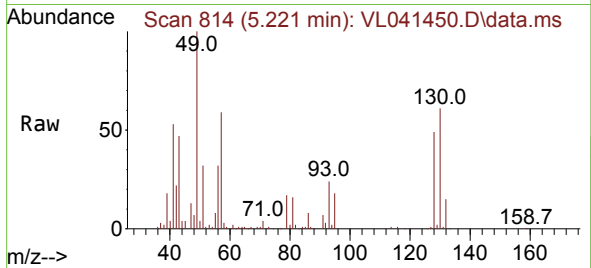




#26
Hexane
Concen: 1.202 ppbv
RT: 5.221 min Scan# 814
Delta R.T. 0.022 min
Lab File: VL041450.D
Acq: 30 Jul 2024 5:14

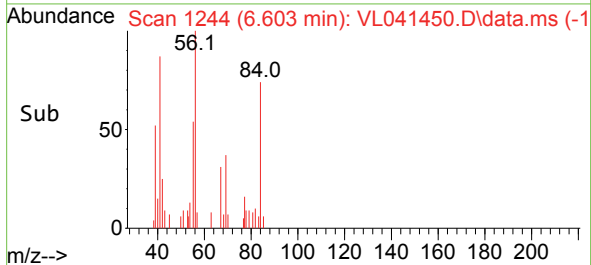
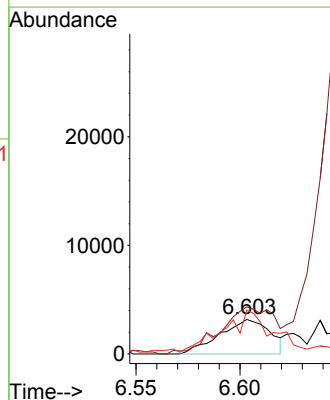
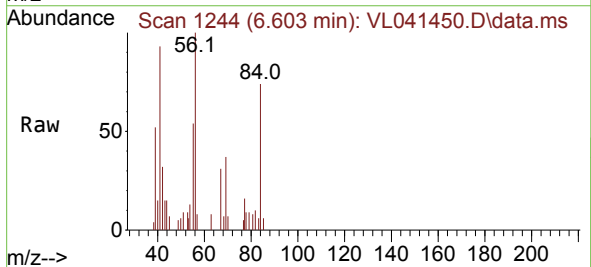
Instrument :
MSVOA_L
ClientSampleId :
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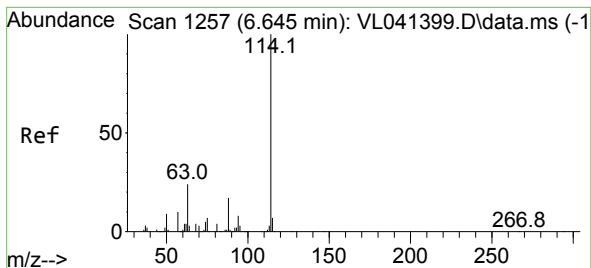
Tgt Ion: 57 Resp: 117722
Ion Ratio Lower Upper
57 100
41 101.3 74.0 111.0
43 89.6 193.6 290.4#
56 56.1 43.1 64.7



#30
Cyclohexane
Concen: 0.067 ppbv
RT: 6.603 min Scan# 1244
Delta R.T. 0.010 min
Lab File: VL041450.D
Acq: 30 Jul 2024 5:14

Tgt Ion: 84 Resp: 5346
Ion Ratio Lower Upper
84 100
56 0.0 111.2 166.8#
41 140.9 70.3 105.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.655 min Scan# 1

Delta R.T. 0.010 min

Lab File: VL041450.D

Acq: 30 Jul 2024 5:14

Instrument :

MSVOA_L

ClientSampleId :

ACVI-AA01DL

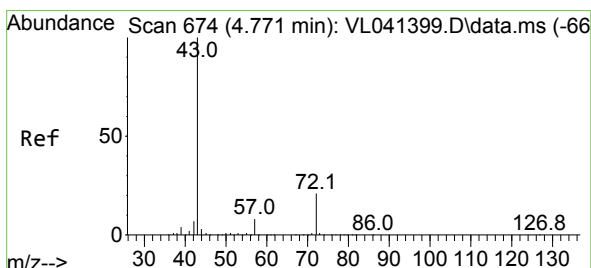
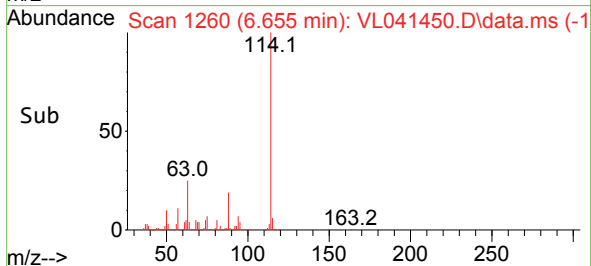
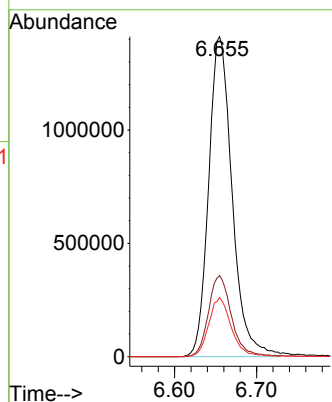
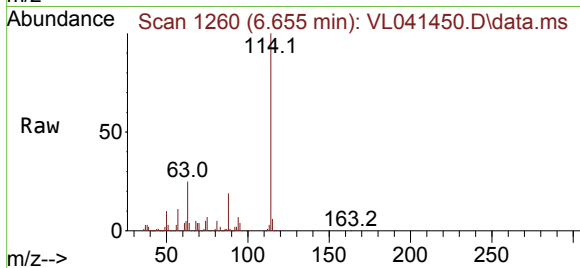
Tgt Ion:114 Resp: 2813918

Ion Ratio Lower Upper

114 100

63 25.1 20.3 30.5

88 18.0 14.3 21.5



#34

2-Butanone

Concen: 0.080 ppbv

RT: 4.806 min Scan# 685

Delta R.T. 0.032 min

Lab File: VL041450.D

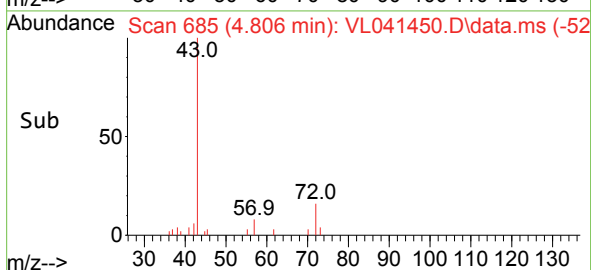
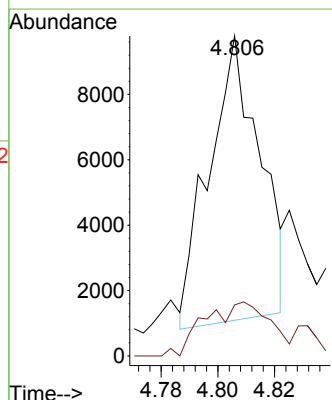
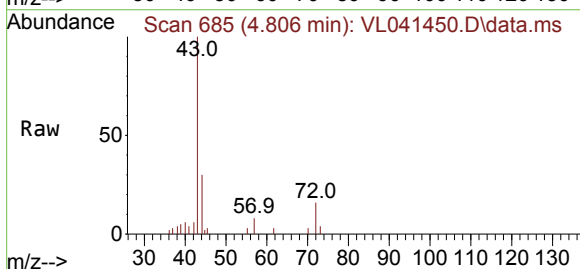
Acq: 30 Jul 2024 5:14

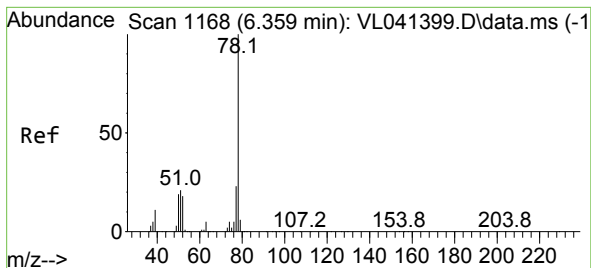
Tgt Ion: 43 Resp: 10829

Ion Ratio Lower Upper

43 100

72 30.5 17.3 25.9#





#36

Benzene

Concen: 0.093 ppbv

RT: 6.365 min Scan# 1168

Delta R.T. 0.006 min

Lab File: VL041450.D

Acq: 30 Jul 2024 5:14

Instrument :

MSVOA_L

ClientSampleId :

ACVI-AA01DL

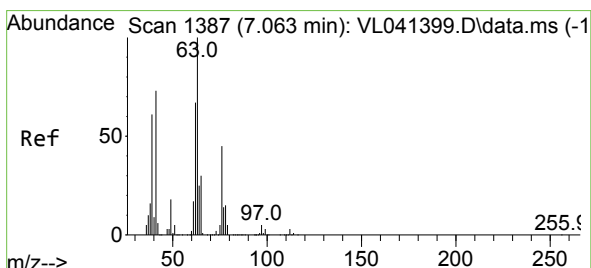
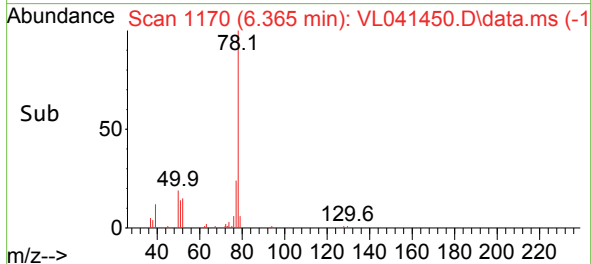
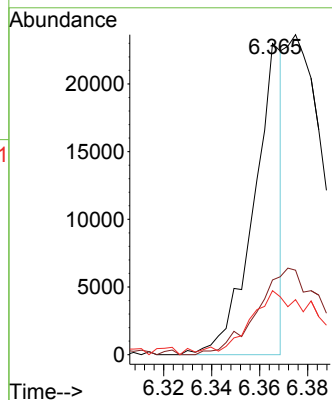
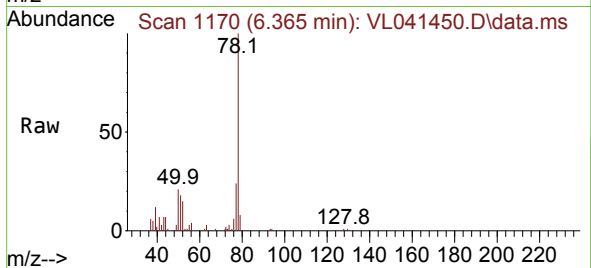
Tgt Ion: 78 Resp: 19020

Ion Ratio Lower Upper

78 100

77 24.0 18.1 27.1

50 20.6 15.5 23.3



#39

1,2-Dichloropropane

Concen: 8.787 ppbv

RT: 6.655 min Scan# 1260

Delta R.T. -0.408 min

Lab File: VL041450.D

Acq: 30 Jul 2024 5:14

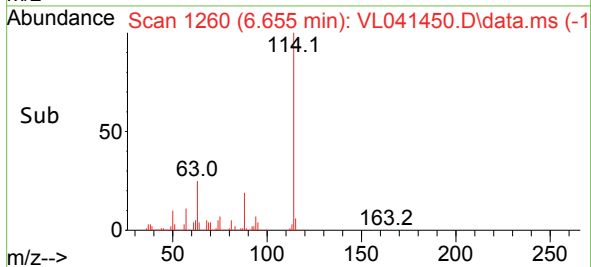
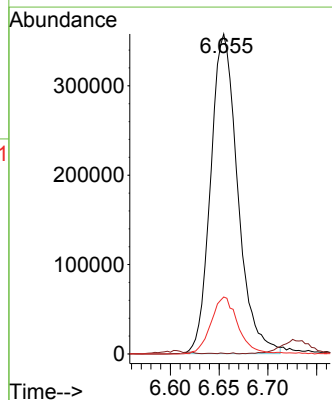
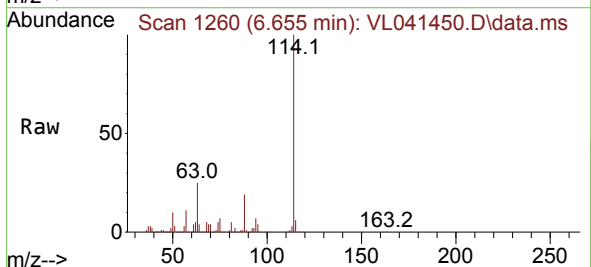
Tgt Ion: 63 Resp: 691667

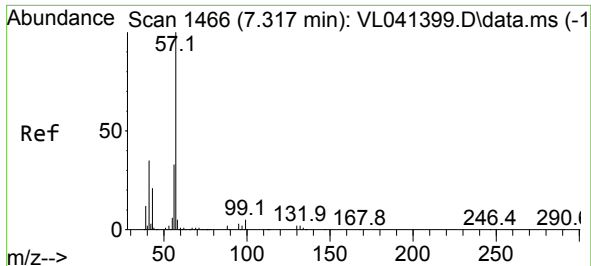
Ion Ratio Lower Upper

63 100

41 0.0 58.3 87.5#

62 17.8 53.9 80.9#

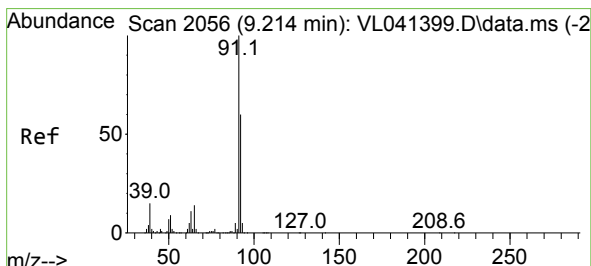
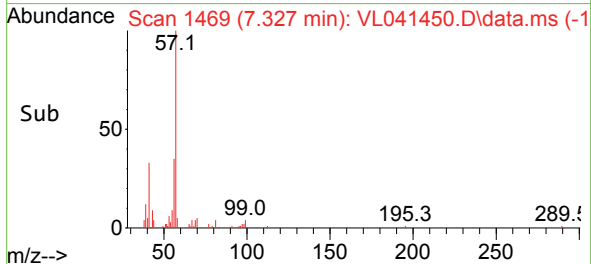
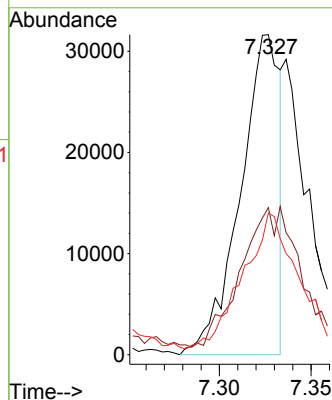
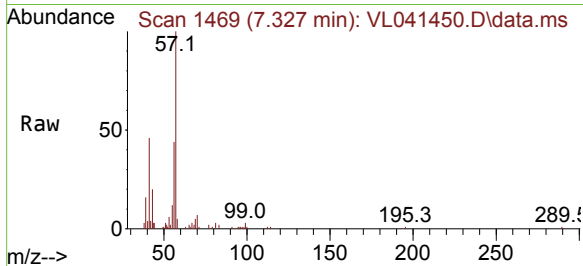




#44
2,2,4-Trimethylpentane
Concen: 0.137 ppbv
RT: 7.327 min Scan# 1466
Delta R.T. 0.010 min
Lab File: VL041450.D
Acq: 30 Jul 2024 5:14

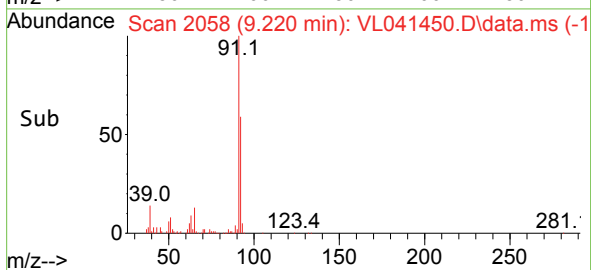
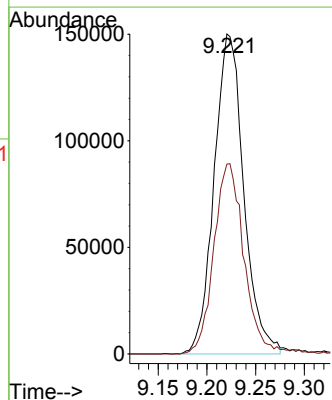
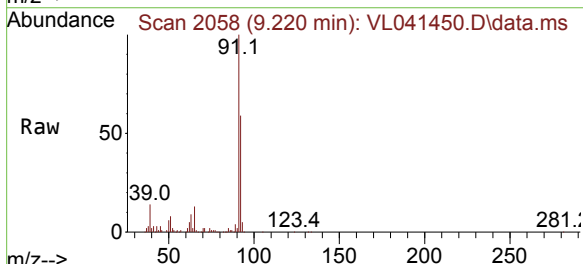
Instrument :
MSVOA_L
ClientSampleId :
ACVI-AA01DL

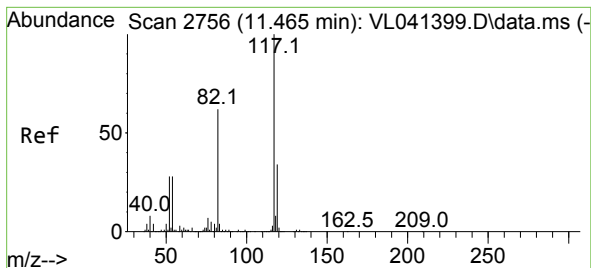
Tgt Ion: 57 Resp: 47161
Ion Ratio Lower Upper
57 100
41 0.0 27.0 40.6#
56 69.1 25.2 37.8#



#53
Toluene
Concen: 1.386 ppbv
RT: 9.220 min Scan# 2058
Delta R.T. 0.003 min
Lab File: VL041450.D
Acq: 30 Jul 2024 5:14

Tgt Ion: 91 Resp: 317469
Ion Ratio Lower Upper
91 100
92 60.9 48.7 73.1

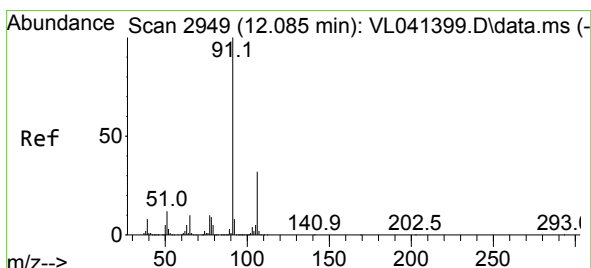
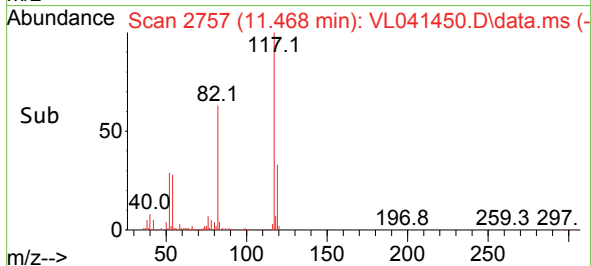
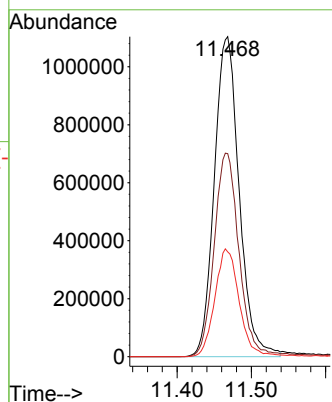
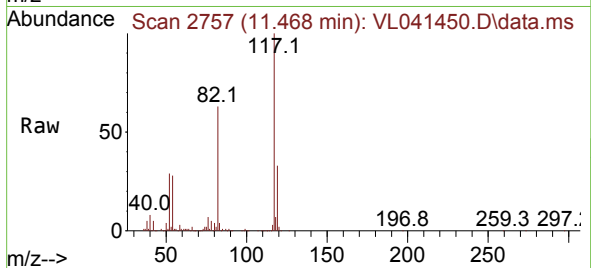




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.468 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL041450.D
Acq: 30 Jul 2024 5:14

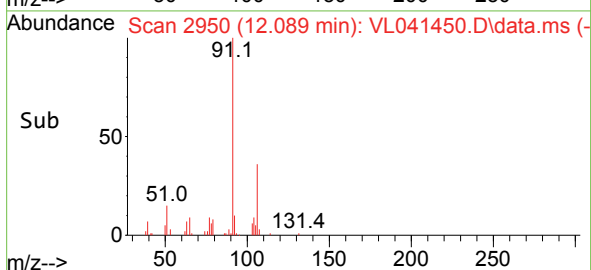
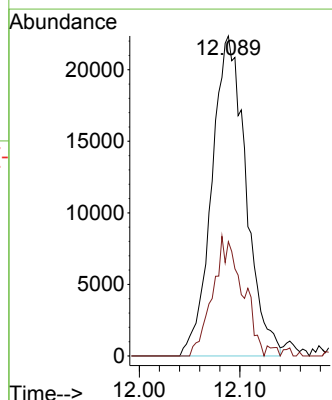
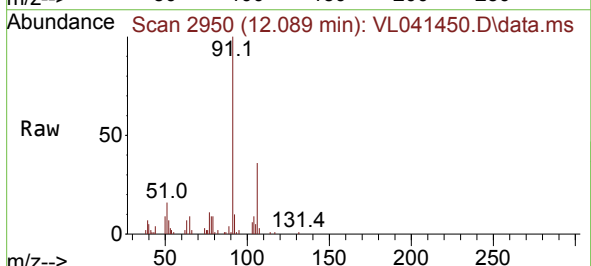
Instrument :
MSVOA_L
ClientSampleId :
ACVI-AA01DL

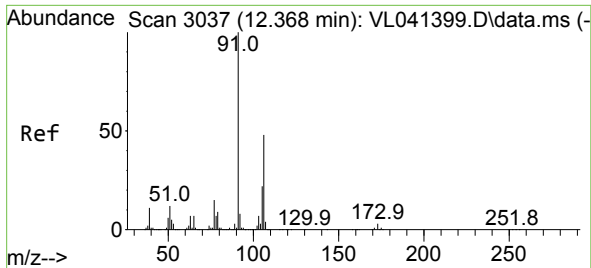
Tgt Ion:117 Resp: 2570607
Ion Ratio Lower Upper
117 100
82 64.5 51.0 76.6
119 33.5 45.2 67.8#



#58
Ethyl Benzene
Concen: 0.178 ppbv
RT: 12.089 min Scan# 2950
Delta R.T. 0.003 min
Lab File: VL041450.D
Acq: 30 Jul 2024 5:14

Tgt Ion: 91 Resp: 52795
Ion Ratio Lower Upper
91 100
106 35.7 25.8 38.8





#59

m/p-Xylene

Concen: 0.197 ppbv

RT: 12.346 min Scan# 3030

Delta R.T. -0.023 min

Lab File: VL041450.D

Acq: 30 Jul 2024 5:14

Instrument :

MSVOA_L

ClientSampleId :

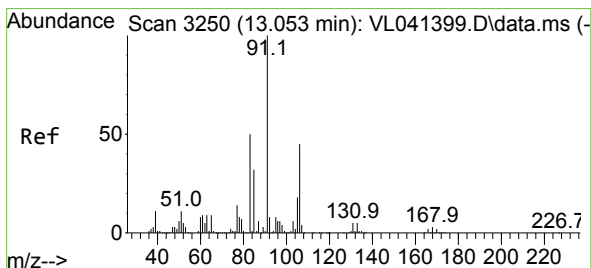
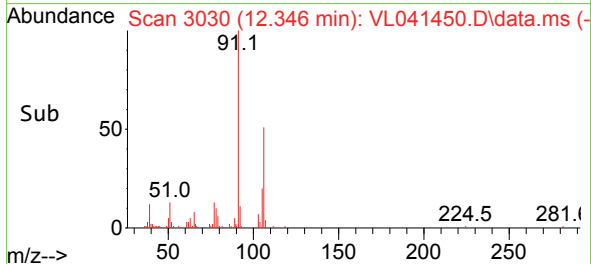
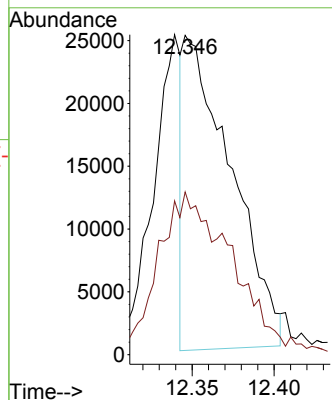
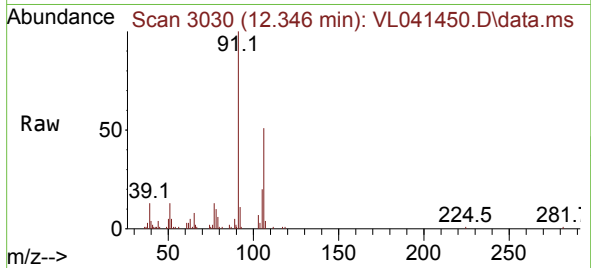
ACVI-AA01DL

Tgt Ion: 91 Resp: 50333

Ion Ratio Lower Upper

91 100

106 82.9 36.3 54.5#



#60

o-Xylene

Concen: 0.096 ppbv

RT: 13.060 min Scan# 3252

Delta R.T. 0.003 min

Lab File: VL041450.D

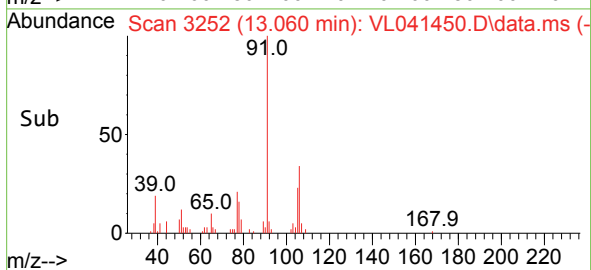
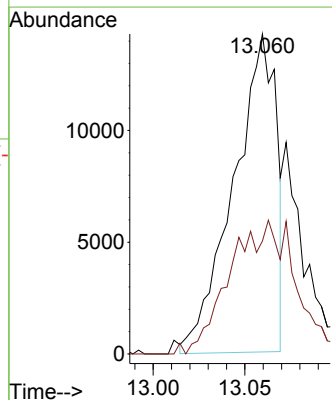
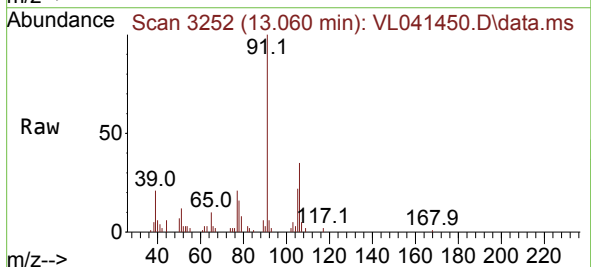
Acq: 30 Jul 2024 5:14

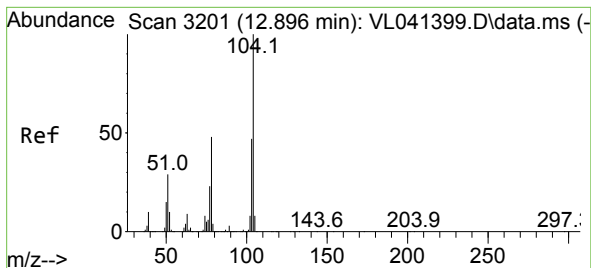
Tgt Ion: 91 Resp: 23161

Ion Ratio Lower Upper

91 100

106 65.2 23.1 69.3





#61

Styrene

Concen: 0.118 ppbv

RT: 12.896 min Scan# 31

Delta R.T. -0.000 min

Lab File: VL041450.D

Acq: 30 Jul 2024 5:14

Instrument :

MSVOA_L

ClientSampleId :

ACVI-AA01DL

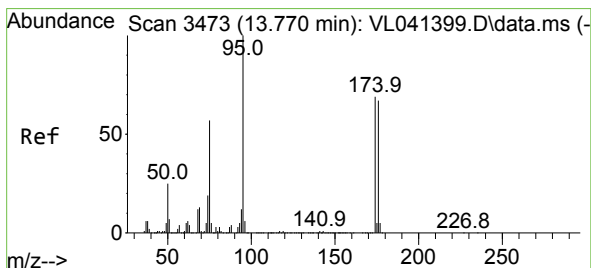
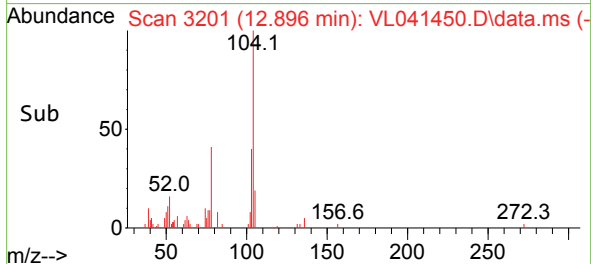
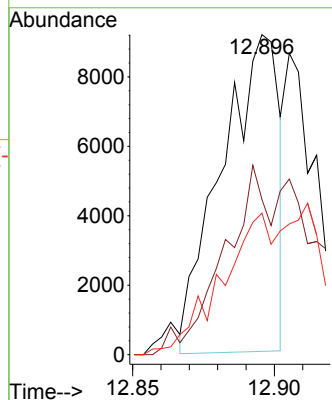
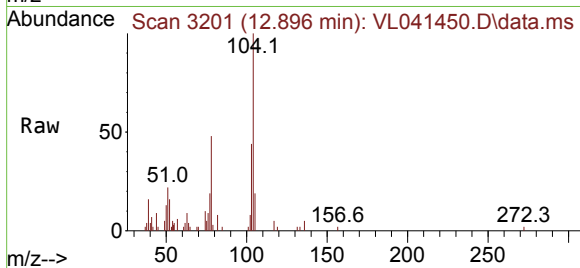
Tgt Ion:104 Resp: 12871

Ion Ratio Lower Upper

104 100

78 98.8 40.8 61.2#

103 0.0 38.2 57.4#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.965 ppbv

RT: 13.773 min Scan# 3474

Delta R.T. -0.000 min

Lab File: VL041450.D

Acq: 30 Jul 2024 5:14

Tgt Ion: 95 Resp: 1971240

Ion Ratio Lower Upper

95 100

174 71.4 56.3 84.5

175 5.2 4.0 6.0

