

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072924\
 Data File : VL041448.D
 Acq On : 30 Jul 2024 3:53
 Operator : SY/MD
 Sample : P3342-09
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ACVI-IA-05DL

Quant Time: Jul 30 06:48:15 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)

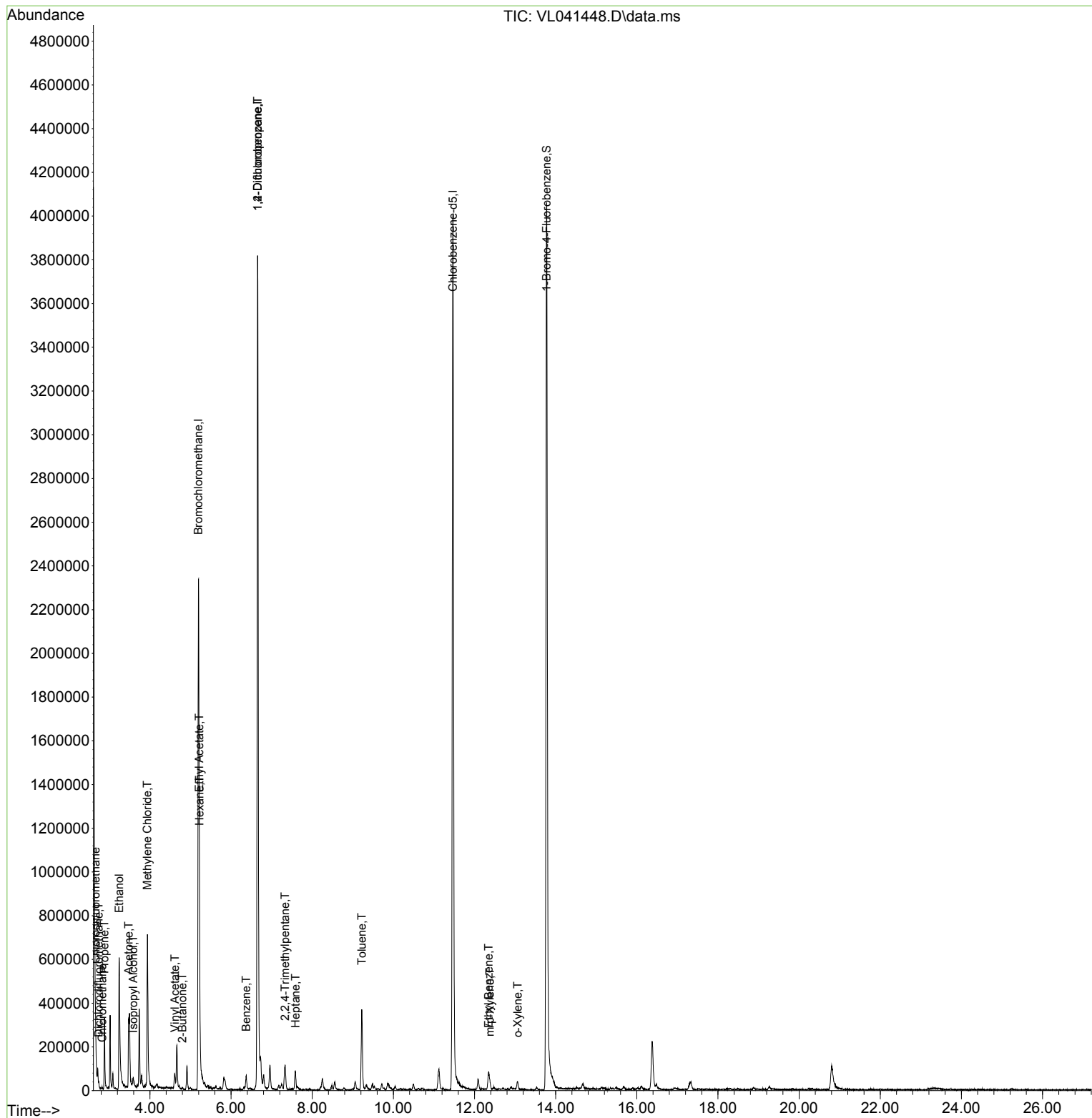
Internal Standards						
1) Bromochloromethane	5.195	49	1104454	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.655	114	2952331	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	2676029	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.777	95	2021174	9.815	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.739	85	10195	0.054	ppbv	93
3) Chlorodifluoromethane	2.658	51	51426	0.391	ppbv #	61
4) Chloromethane	2.822	50	5262	0.075	ppbv	97
9) Propene	2.880	41	82380	1.364	ppbv	96
10) Heptane	7.587	43	13868	0.102	ppbv #	27
13) Ethanol	3.243	45	657734	121.840	ppbv	92
15) Acetone	3.475	43	386885	3.083	ppbv	91
19) Isopropyl Alcohol	3.591	45	50532	0.689	ppbv #	88
20) Methylene Chloride	3.938	84	231113	4.939	ppbv	95
23) Vinyl Acetate	4.620	43	8353	0.087	ppbv #	1
25) Ethyl Acetate	5.218	43	187676	0.753	ppbv #	87
26) Hexane	5.221	57	255685	2.472	ppbv #	39
34) 2-Butanone	4.796	43	5848	0.041	ppbv #	54
36) Benzene	6.372	78	25086	0.116	ppbv	95
39) 1,2-Dichloropropane	6.655	63	732822	8.873	ppbv #	25
44) 2,2,4-Trimethylpentane	7.333	57	94817	0.263	ppbv #	82
53) Toluene	9.221	91	271930	1.132	ppbv	100
58) Ethyl Benzene	12.346	91	37295	0.121	ppbv	92
59) m/p-Xylene	12.381	91	12496	0.047	ppbv #	31
60) o-Xylene	13.066	91	11244	0.045	ppbv #	30

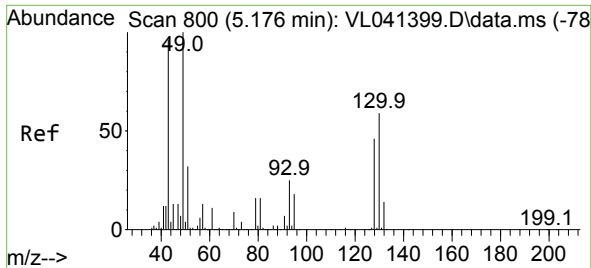
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jul 30 02:42:20 2024
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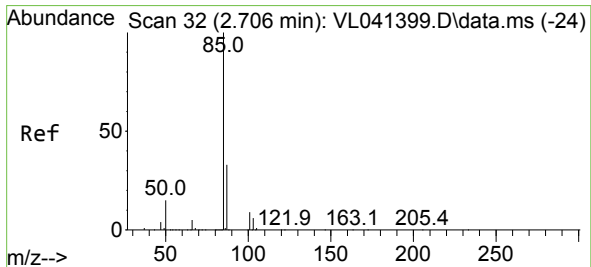
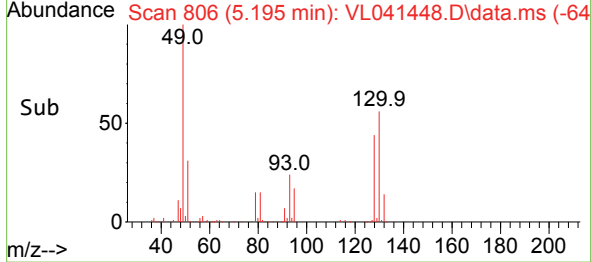
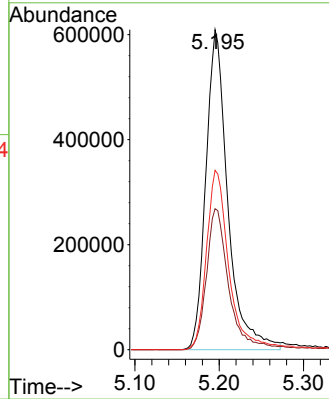
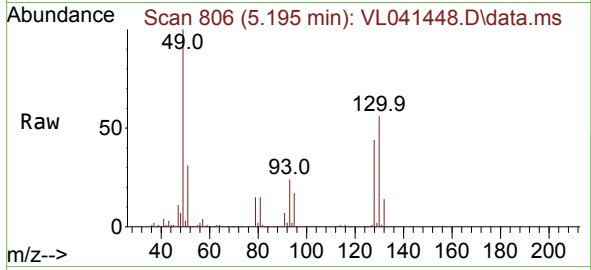




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.195 min Scan# 80
Delta R.T. 0.016 min
Lab File: VL041448.D
Acq: 30 Jul 2024 3:53

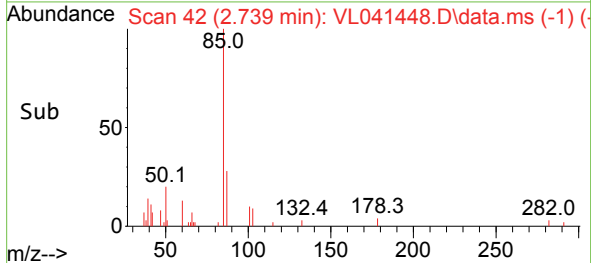
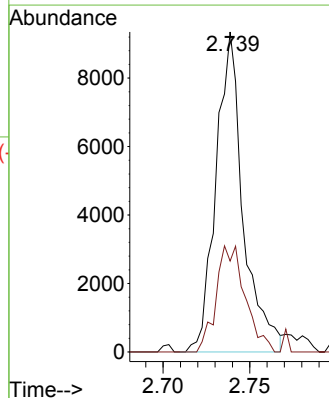
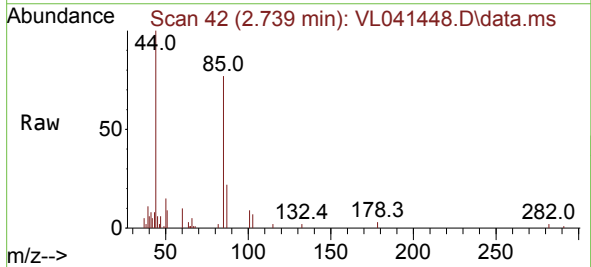
Instrument :
MSVOA_L
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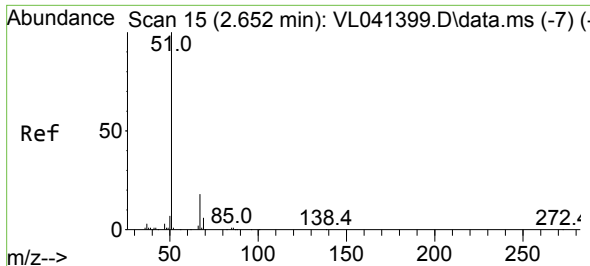
Tgt Ion: 49 Resp: 1104454
Ion Ratio Lower Upper
49 100
128 46.0 23.8 71.4
130 58.7 30.8 92.4



#2
Dichlorodifluoromethane
Concen: 0.054 ppbv
RT: 2.739 min Scan# 42
Delta R.T. 0.029 min
Lab File: VL041448.D
Acq: 30 Jul 2024 3:53

Tgt Ion: 85 Resp: 10195
Ion Ratio Lower Upper
85 100
87 28.4 26.0 39.0

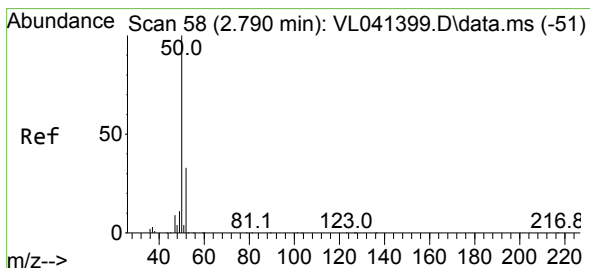
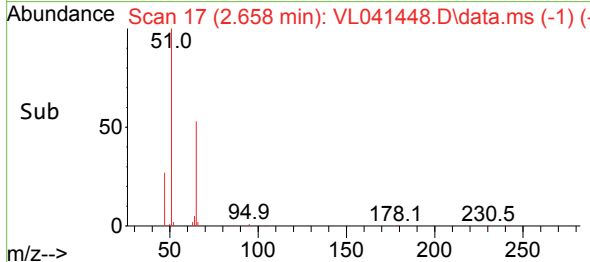
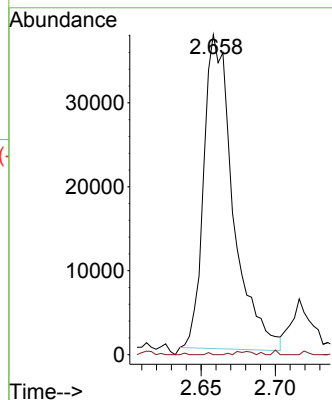
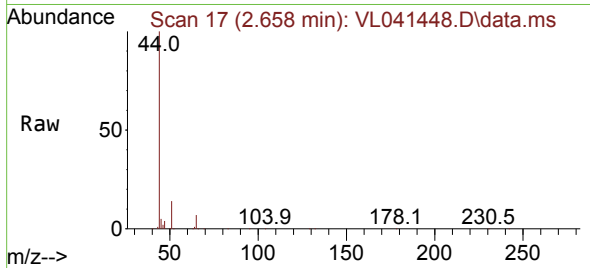




#3
Chlorodifluoromethane
Concen: 0.391 ppbv
RT: 2.658 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL041448.D
Acq: 30 Jul 2024 3:53

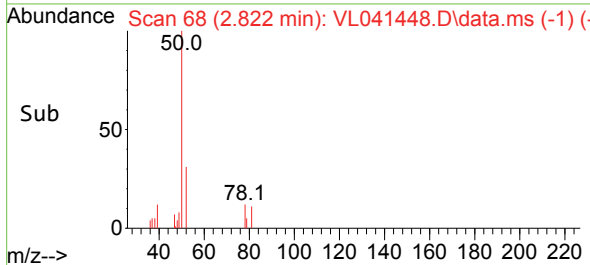
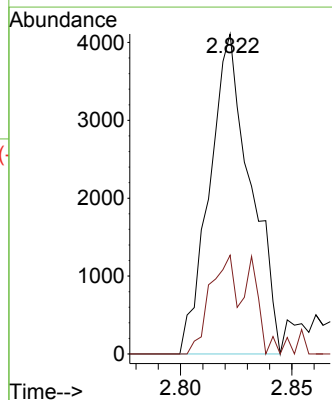
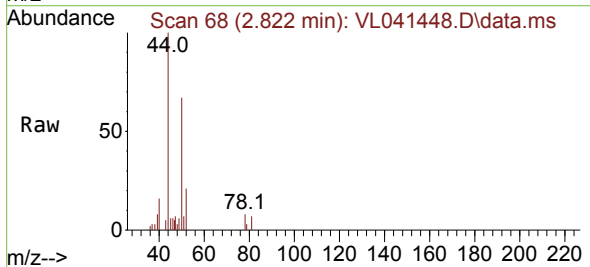
Instrument :
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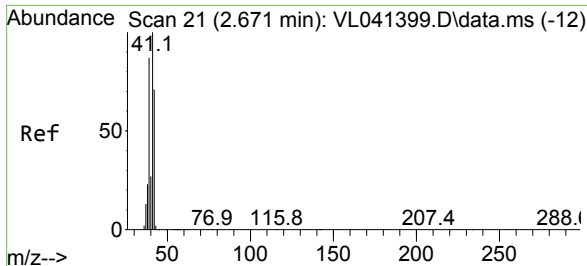
Tgt Ion: 51 Resp: 51426
Ion Ratio Lower Upper
51 100
67 1.0 14.5 21.7#



#4
Chloromethane
Concen: 0.075 ppbv
RT: 2.822 min Scan# 68
Delta R.T. 0.029 min
Lab File: VL041448.D
Acq: 30 Jul 2024 3:53

Tgt Ion: 50 Resp: 5262
Ion Ratio Lower Upper
50 100
52 30.9 26.1 39.1

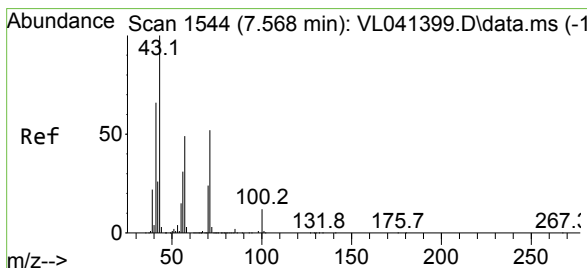
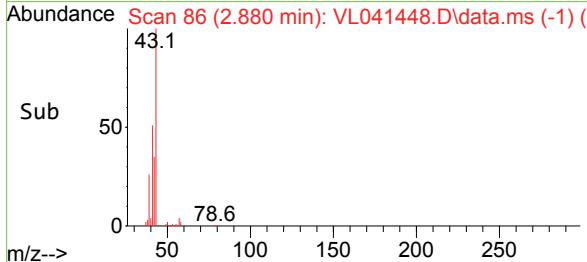
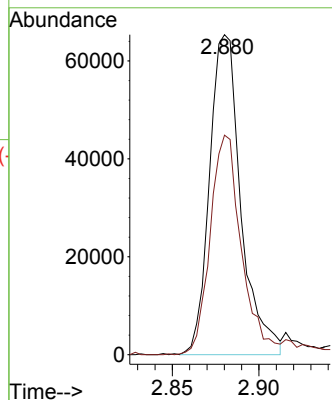
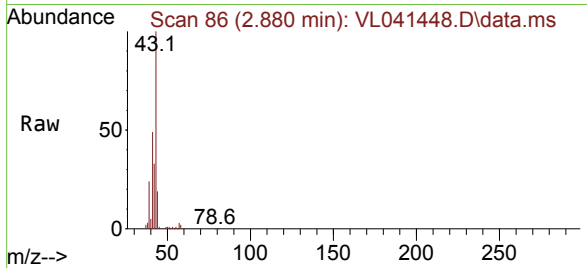




#9
 Propene
 Concen: 1.364 ppbv
 RT: 2.880 min Scan# 80
 Delta R.T. 0.209 min
 Lab File: VL041448.D
 Acq: 30 Jul 2024 3:53

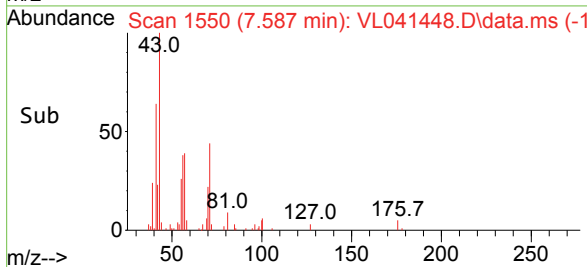
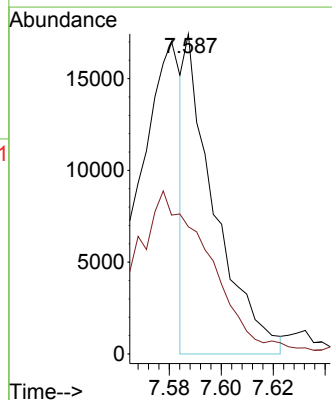
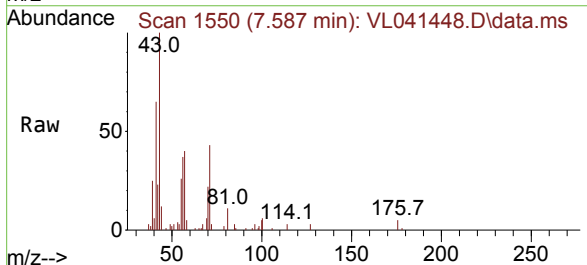
Instrument :
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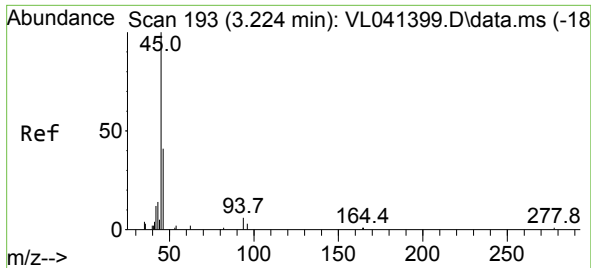
Tgt Ion: 41 Resp: 82380
 Ion Ratio Lower Upper
 41 100
 42 73.6 55.9 83.9



#10
 Heptane
 Concen: 0.102 ppbv
 RT: 7.587 min Scan# 1550
 Delta R.T. 0.016 min
 Lab File: VL041448.D
 Acq: 30 Jul 2024 3:53

Tgt Ion: 43 Resp: 13868
 Ion Ratio Lower Upper
 43 100
 57 0.0 40.5 60.7#

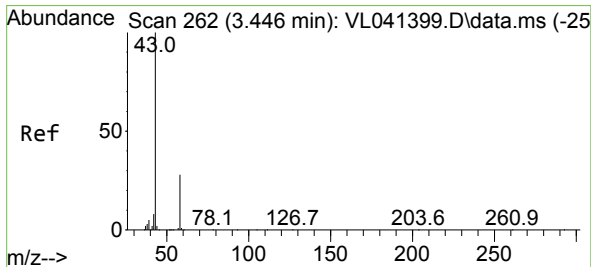
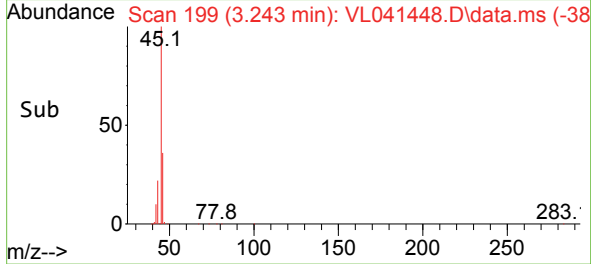
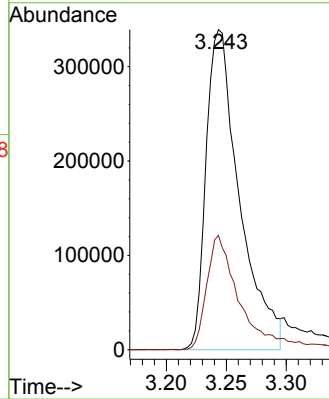
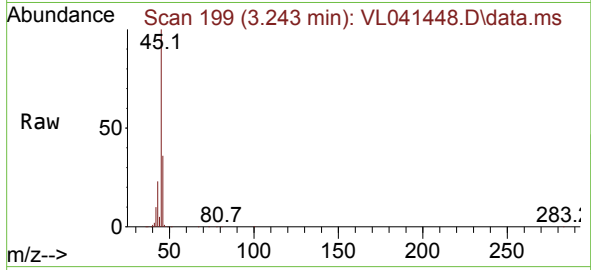




#13
 Ethanol
 Concen: 121.840 ppbv
 RT: 3.243 min Scan# 19
 Delta R.T. 0.016 min
 Lab File: VL041448.D
 Acq: 30 Jul 2024 3:53

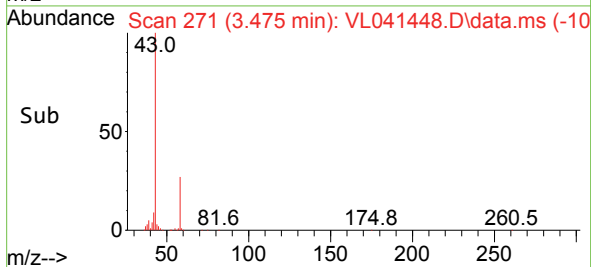
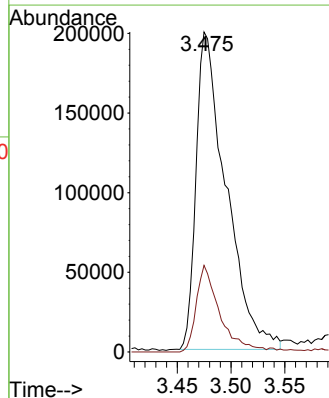
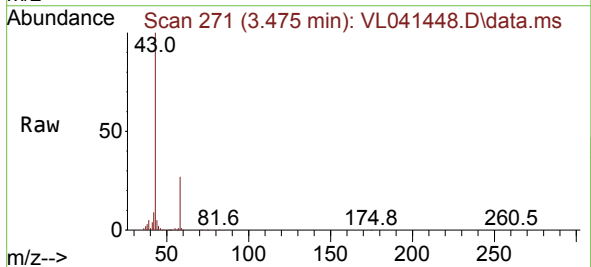
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 ClientSampleId :
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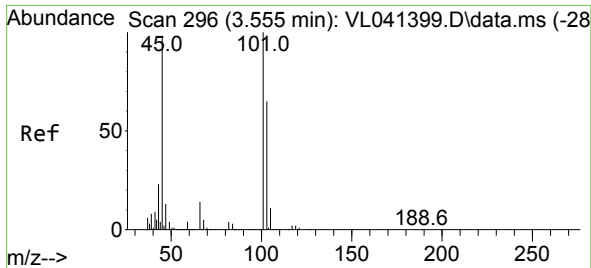
Tgt Ion: 45 Resp: 657734
 Ion Ratio Lower Upper
 45 100
 46 37.9 13.4 53.4



#15
 Acetone
 Concen: 3.083 ppbv
 RT: 3.475 min Scan# 271
 Delta R.T. 0.023 min
 Lab File: VL041448.D
 Acq: 30 Jul 2024 3:53

Tgt Ion: 43 Resp: 386885
 Ion Ratio Lower Upper
 43 100
 58 22.0 21.4 32.2





#19

Isopropyl Alcohol

Concen: 0.689 ppbv

RT: 3.591 min Scan# 307

Delta R.T. 0.029 min

Lab File: VL041448.D

Acq: 30 Jul 2024 3:53

Instrument :

MSVOA_L

ClientSampleId :

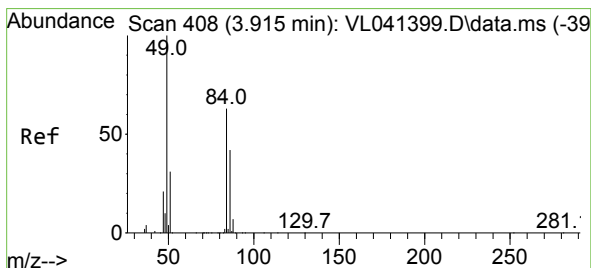
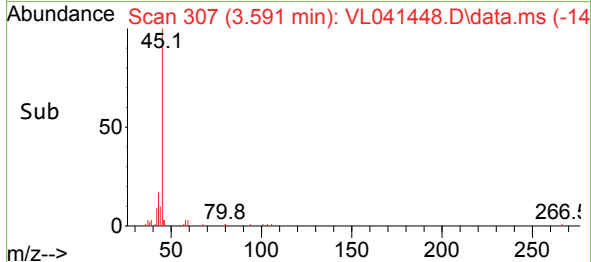
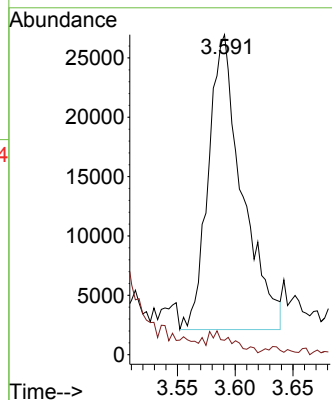
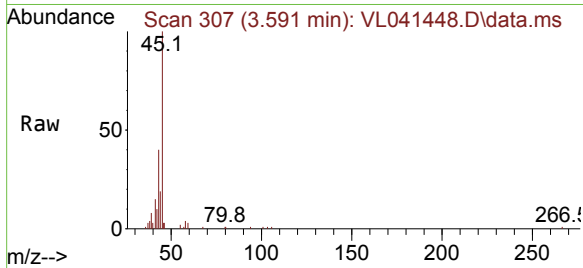
ACVI-IA-05DL

Tgt Ion: 45 Resp: 50532

Ion Ratio Lower Upper

45 100

58 6.3 1.9 2.9#



#20

Methylene Chloride

Concen: 4.939 ppbv

RT: 3.938 min Scan# 415

Delta R.T. 0.019 min

Lab File: VL041448.D

Acq: 30 Jul 2024 3:53

Tgt Ion: 84 Resp: 231113

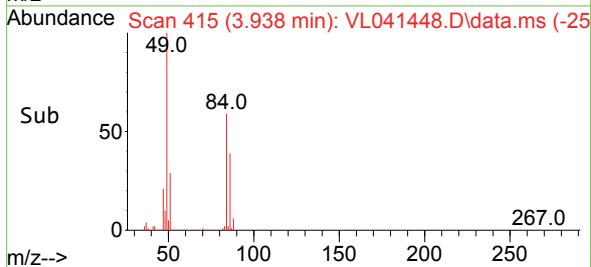
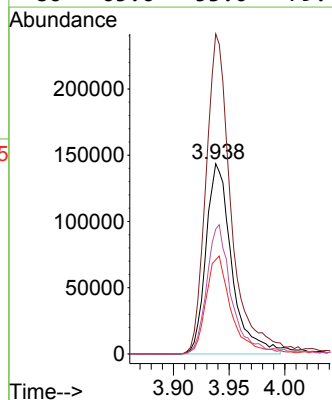
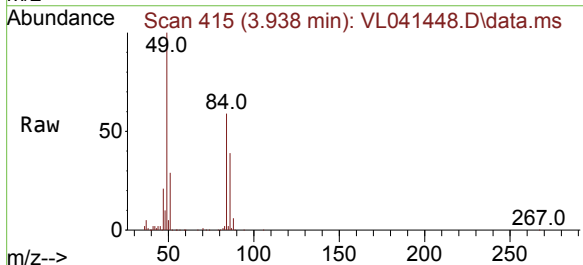
Ion Ratio Lower Upper

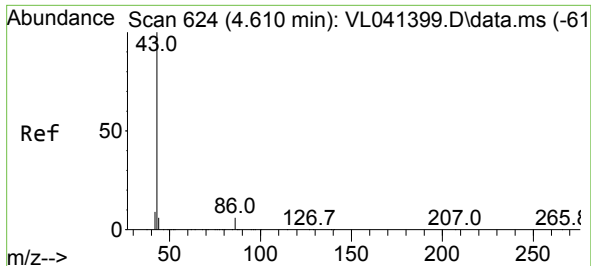
84 100

49 168.2 126.6 190.0

51 49.6 38.6 58.0

86 65.6 53.0 79.4

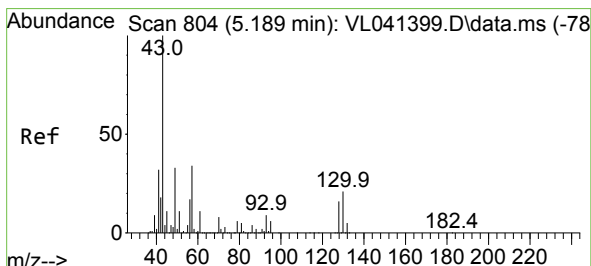
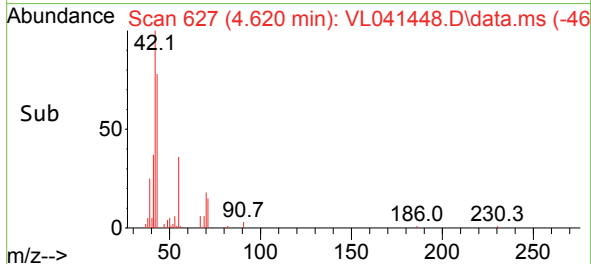
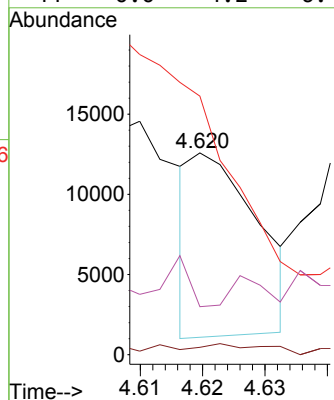
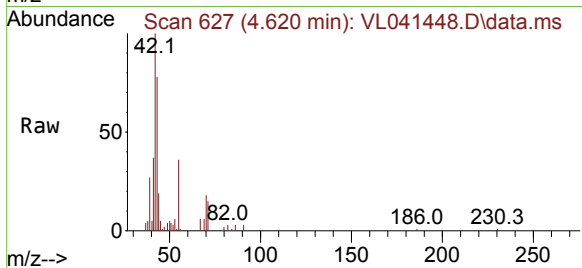




#23
 Vinyl Acetate
 Concen: 0.087 ppbv
 RT: 4.620 min Scan# 61
 Delta R.T. 0.007 min
 Lab File: VL041448.D
 Acq: 30 Jul 2024 3:53

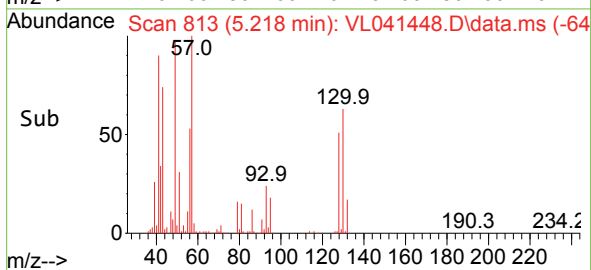
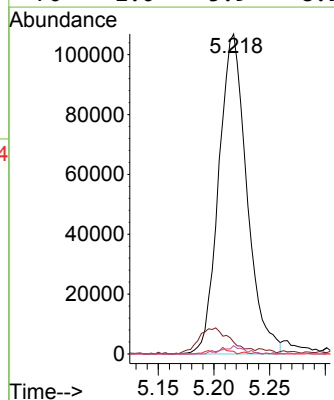
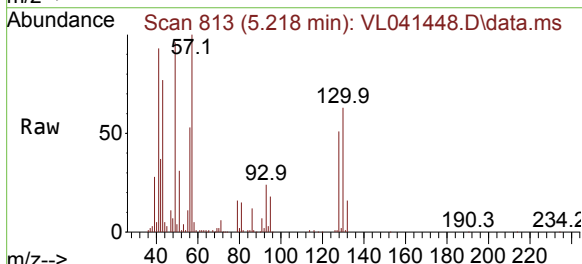
Instrument :
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 ACVI-IA-05DL

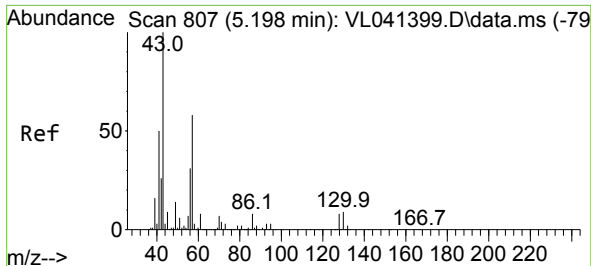
Tgt Ion:	43	Resp:	8353
Ion	Ratio	Lower	Upper
43	100		
86	2.3	4.6	6.8#
42	176.7	7.9	11.9#
44	0.0	4.2	6.4#



#25
 Ethyl Acetate
 Concen: 0.753 ppbv
 RT: 5.218 min Scan# 813
 Delta R.T. 0.026 min
 Lab File: VL041448.D
 Acq: 30 Jul 2024 3:53

Tgt Ion:	43	Resp:	187676
Ion	Ratio	Lower	Upper
43	100		
45	10.8	8.5	12.7
61	1.3	8.0	12.0#
70	2.0	5.9	8.9#

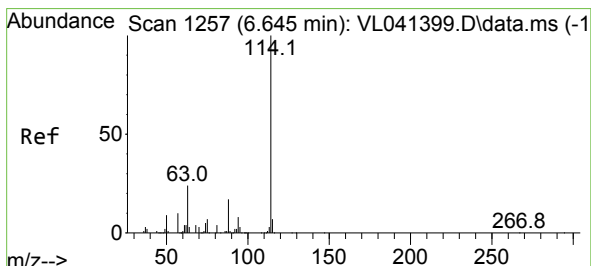
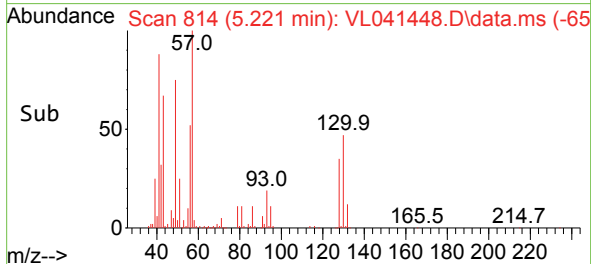
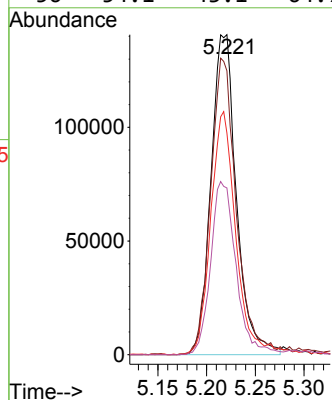
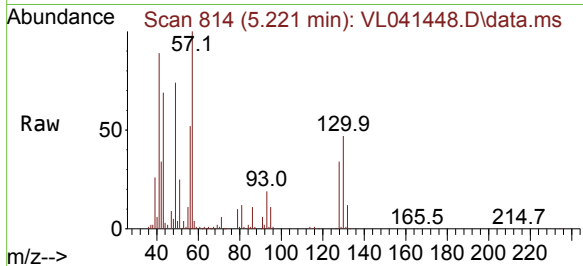




#26
Hexane
Concen: 2.472 ppbv
RT: 5.221 min Scan# 814
Delta R.T. 0.023 min
Lab File: VL041448.D
Acq: 30 Jul 2024 3:53

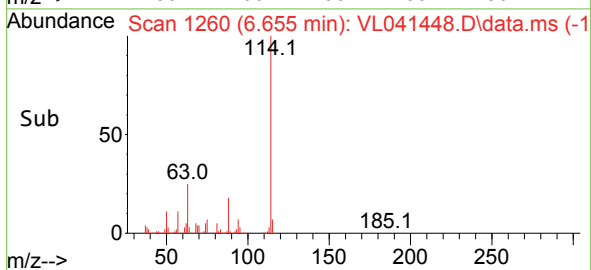
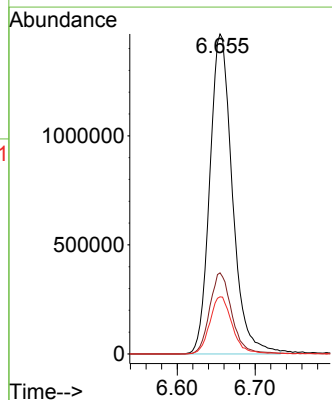
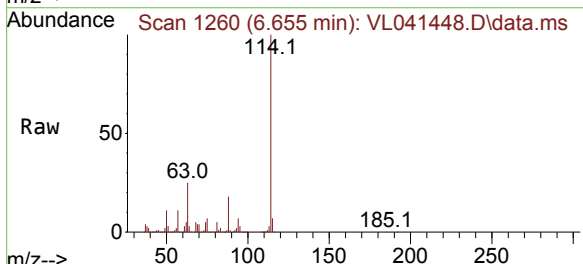
Instrument :
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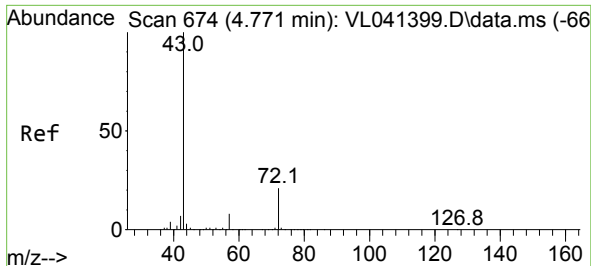
Tgt Ion: 57 Resp: 255685
Ion Ratio Lower Upper
57 100
41 95.8 74.0 111.0
43 76.4 193.6 290.4#
56 54.1 43.1 64.7



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.655 min Scan# 1260
Delta R.T. 0.010 min
Lab File: VL041448.D
Acq: 30 Jul 2024 3:53

Tgt Ion:114 Resp: 2952331
Ion Ratio Lower Upper
114 100
63 25.1 20.3 30.5
88 18.0 14.3 21.5

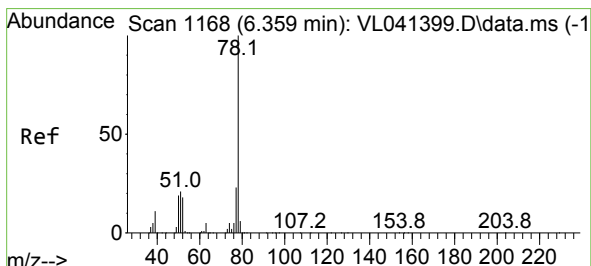
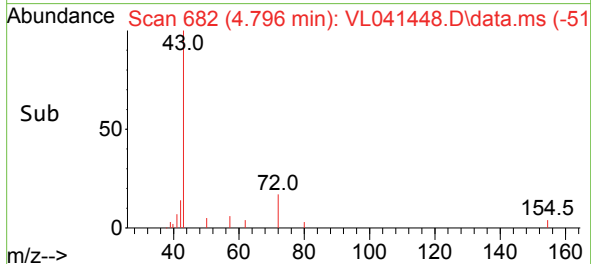
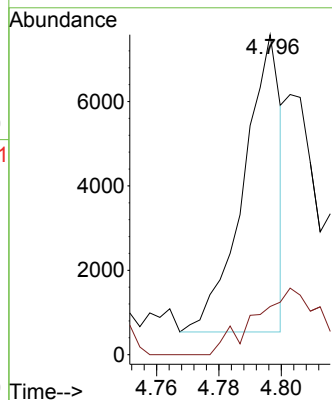
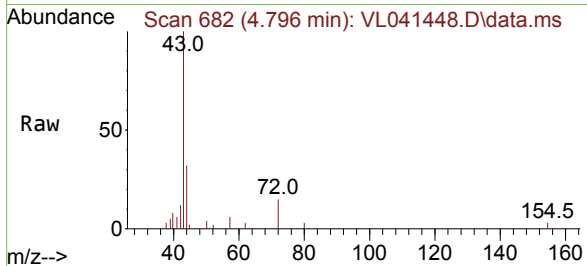




#34
2-Butanone
Concen: 0.041 ppbv
RT: 4.796 min Scan# 61
Delta R.T. 0.023 min
Lab File: VL041448.D
Acq: 30 Jul 2024 3:53

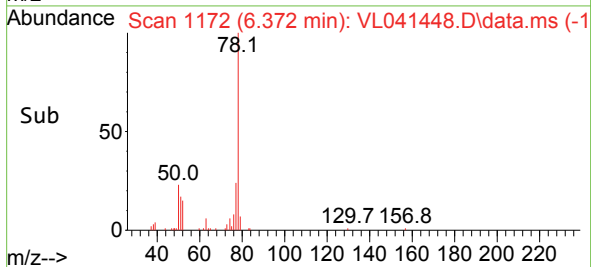
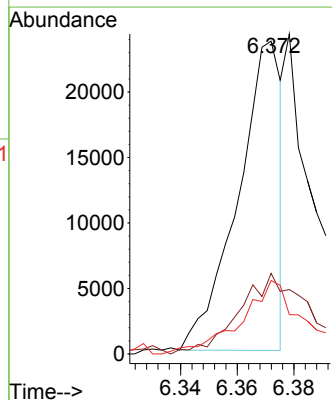
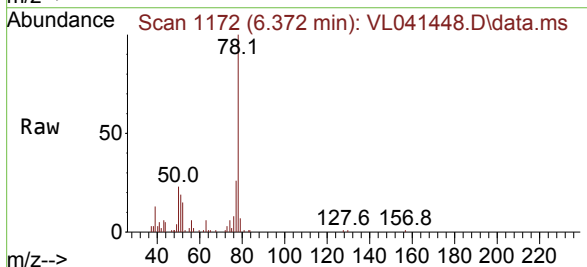
Instrument :
MSVOA_L
ClientSampleId :
ACVI-IA-05DL

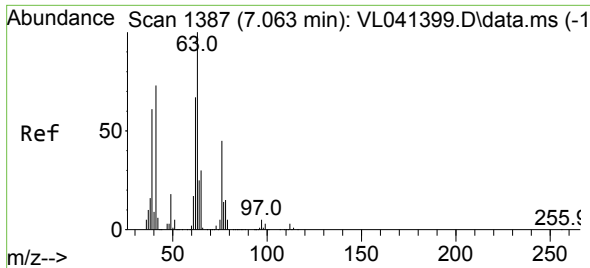
Tgt Ion: 43 Resp: 5848
Ion Ratio Lower Upper
43 100
72 43.4 17.3 25.9#



#36
Benzene
Concen: 0.116 ppbv
RT: 6.372 min Scan# 1172
Delta R.T. 0.013 min
Lab File: VL041448.D
Acq: 30 Jul 2024 3:53

Tgt Ion: 78 Resp: 25086
Ion Ratio Lower Upper
78 100
77 24.6 18.1 27.1
50 21.8 15.5 23.3





#39

1,2-Dichloropropane

Concen: 8.873 ppbv

RT: 6.655 min Scan# 11

Delta R.T. -0.408 min

Lab File: VL041448.D

Acq: 30 Jul 2024 3:53

Instrument :

MSVOA_L

ClientSampleId :

ACVI-IA-05DL

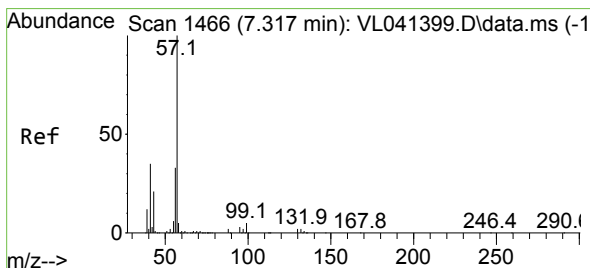
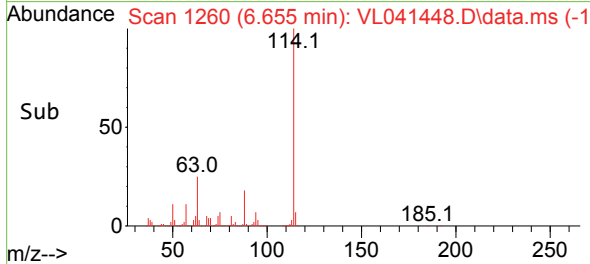
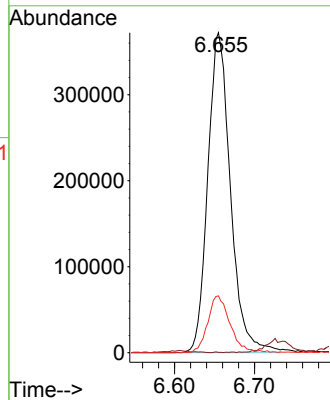
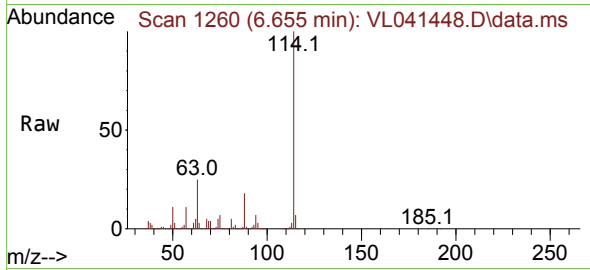
Tgt Ion: 63 Resp: 732822

Ion Ratio Lower Upper

63 100

41 0.0 58.3 87.5#

62 17.7 53.9 80.9#



#44

2,2,4-Trimethylpentane

Concen: 0.263 ppbv

RT: 7.333 min Scan# 1471

Delta R.T. 0.016 min

Lab File: VL041448.D

Acq: 30 Jul 2024 3:53

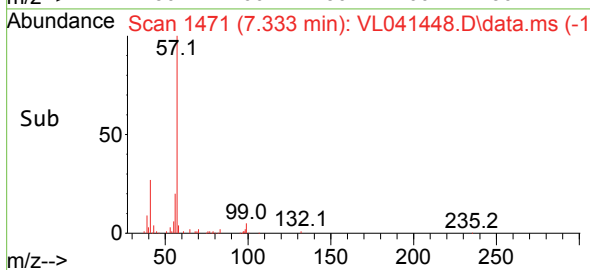
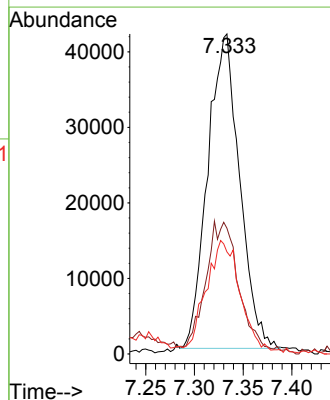
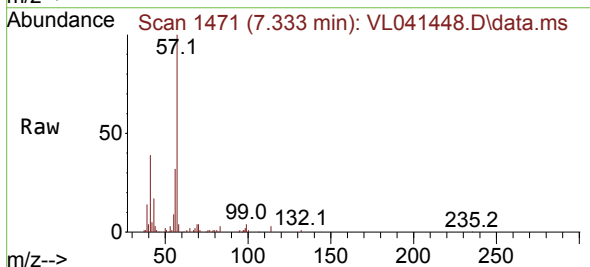
Tgt Ion: 57 Resp: 94817

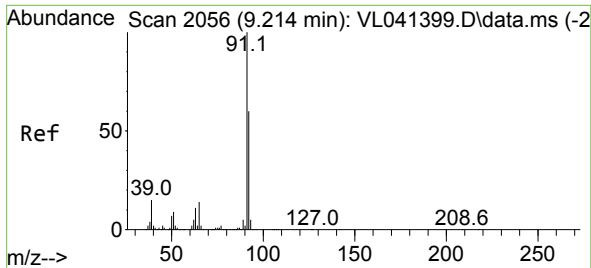
Ion Ratio Lower Upper

57 100

41 45.4 27.0 40.6#

56 40.6 25.2 37.8#





#53

Toluene

Concen: 1.132 ppbv

RT: 9.221 min Scan# 2056

Delta R.T. 0.003 min

Lab File: VL041448.D

Acq: 30 Jul 2024 3:53

Instrument :

MSVOA_L

ClientSampleId :

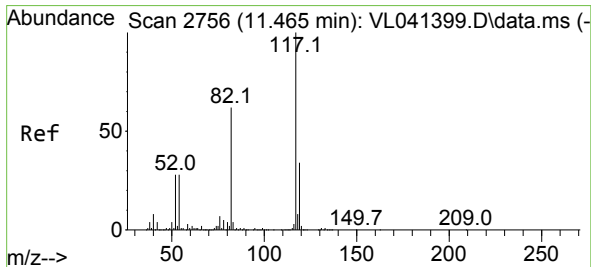
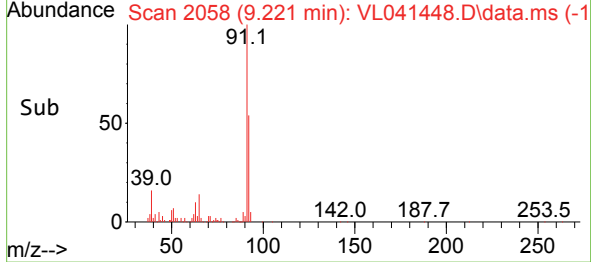
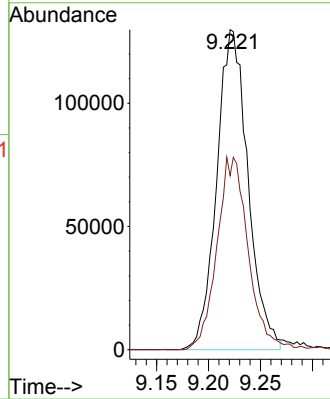
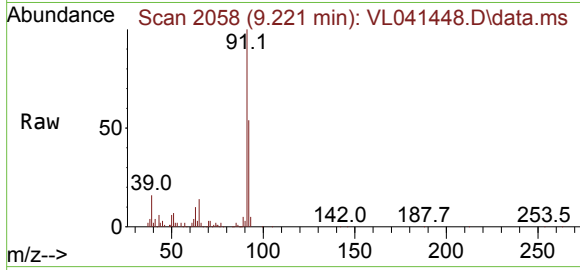
ACVI-IA-05DL

Tgt Ion: 91 Resp: 271930

Ion Ratio Lower Upper

91 100

92 60.8 48.7 73.1



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.468 min Scan# 2757

Delta R.T. 0.003 min

Lab File: VL041448.D

Acq: 30 Jul 2024 3:53

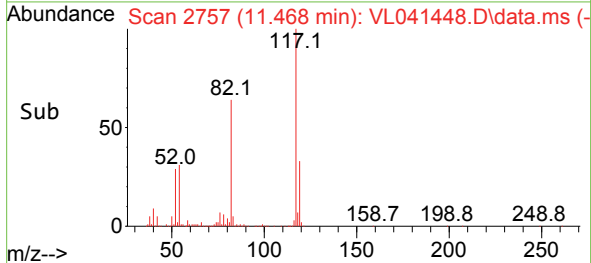
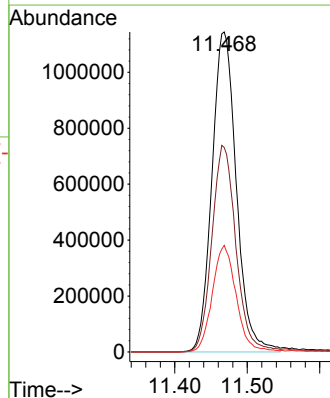
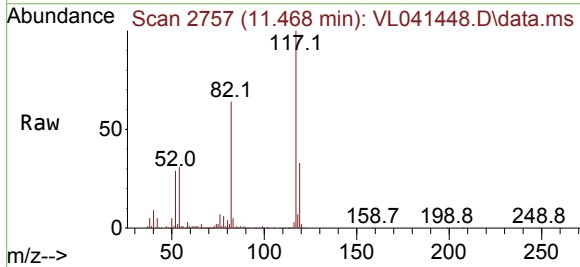
Tgt Ion: 117 Resp: 2676029

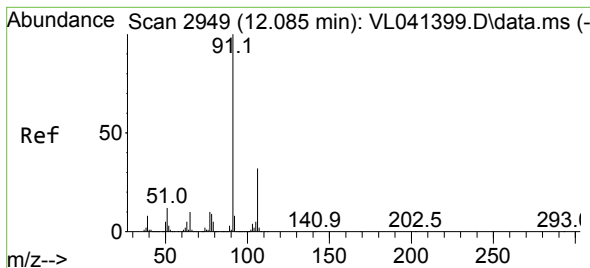
Ion Ratio Lower Upper

117 100

82 64.8 51.0 76.6

119 32.9 45.2 67.8#





#58

Ethyl Benzene

Concen: 0.121 ppbv

RT: 12.346 min Scan# 3030

Delta R.T. 0.261 min

Lab File: VL041448.D

Acq: 30 Jul 2024 3:53

Instrument :

MSVOA_L

ClientSampleId :

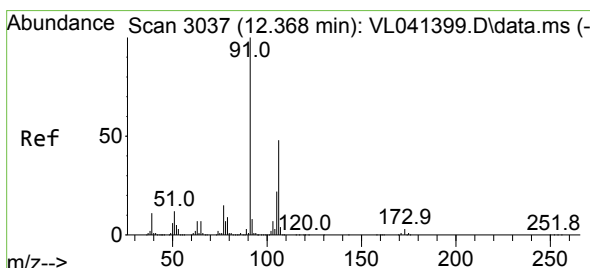
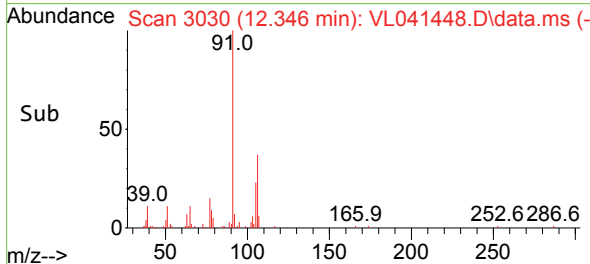
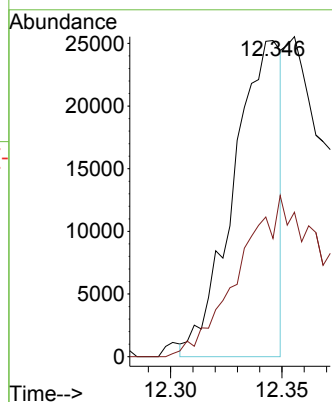
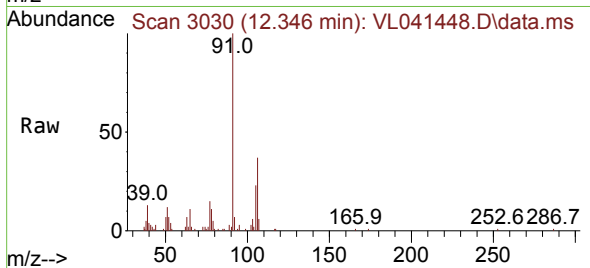
ACVI-IA-05DL

Tgt Ion: 91 Resp: 37295

Ion Ratio Lower Upper

91 100

106 37.0 25.8 38.8



#59

m/p-Xylene

Concen: 0.047 ppbv

RT: 12.381 min Scan# 3041

Delta R.T. 0.013 min

Lab File: VL041448.D

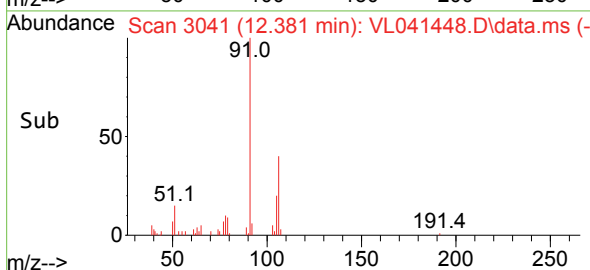
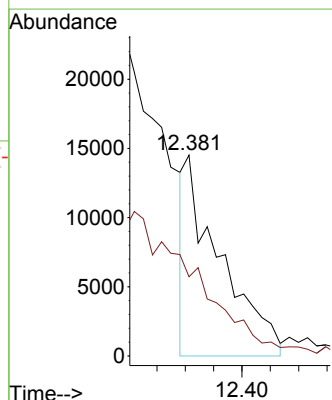
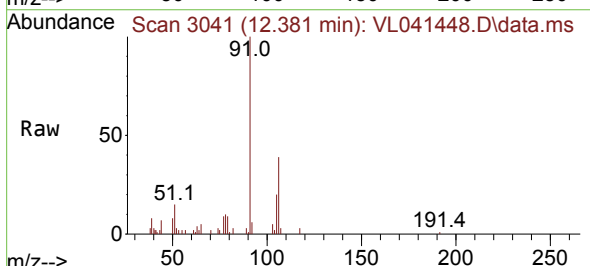
Acq: 30 Jul 2024 3:53

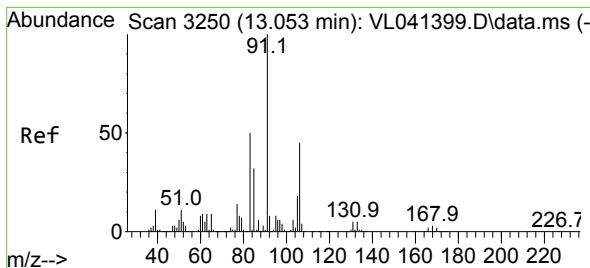
Tgt Ion: 91 Resp: 12496

Ion Ratio Lower Upper

91 100

106 0.0 36.3 54.5#





#60

o-Xylene

Concen: 0.045 ppbv

RT: 13.066 min Scan# 31

Delta R.T. 0.010 min

Lab File: VL041448.D

Acq: 30 Jul 2024 3:53

Instrument :

MSVOA_L

ClientSampleId :

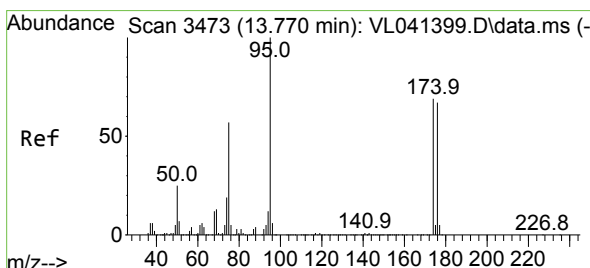
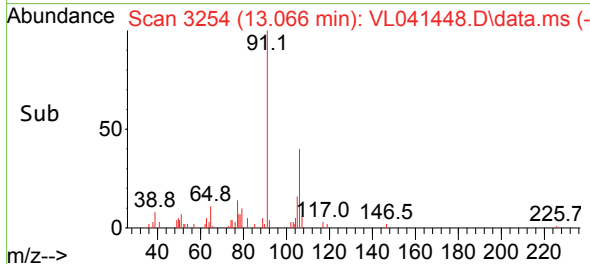
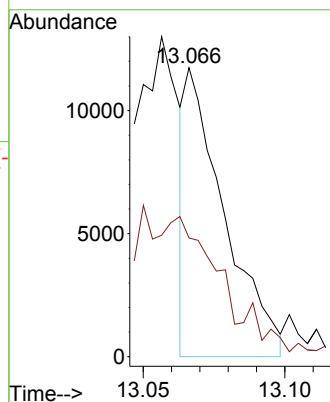
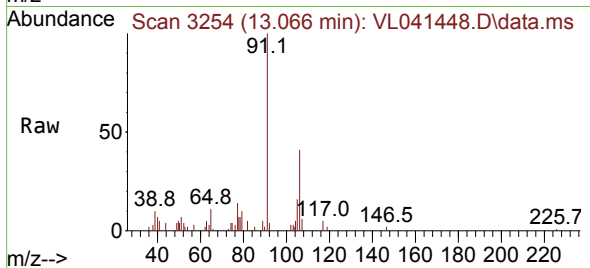
ACVI-IA-05DL

Tgt Ion: 91 Resp: 11244

Ion Ratio Lower Upper

91 100

106 0.0 23.1 69.3#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.815 ppbv

RT: 13.777 min Scan# 3475

Delta R.T. 0.003 min

Lab File: VL041448.D

Acq: 30 Jul 2024 3:53

Tgt Ion: 95 Resp: 2021174

Ion Ratio Lower Upper

95 100

174 72.9 56.3 84.5

175 5.6 4.0 6.0

