

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072924\
 Data File : VL041436.D
 Acq On : 29 Jul 2024 19:44
 Operator : SY/MD
 Sample : P3342-12DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 30 02:53:32 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)

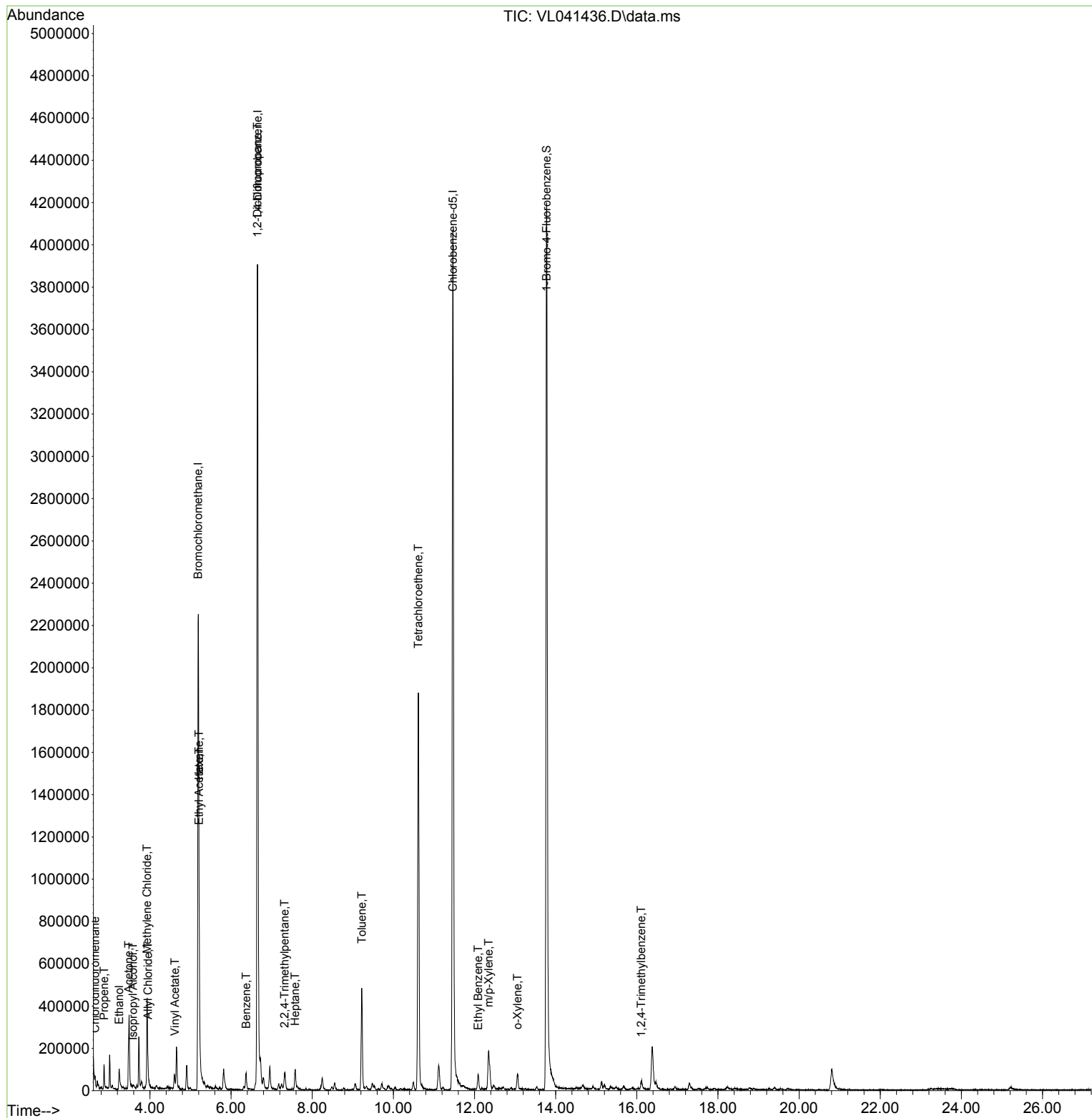
Internal Standards						
1) Bromochloromethane	5.188	49	1095303	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.651	114	2991446	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	2716227	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.777	95	2115240	10.119	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.200%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	2.652	51	30947	0.237	ppbv #	60
9) Propene	2.870	41	28032	0.468	ppbv	92
10) Heptane	7.577	43	20096	0.149	ppbv #	45
13) Ethanol	3.243	45	92263	17.234	ppbv	80
15) Acetone	3.475	43	253736	2.039	ppbv #	86
19) Isopropyl Alcohol	3.581	45	15541	0.214	ppbv #	64
20) Methylene Chloride	3.931	84	139288	3.001	ppbv	93
21) Allyl Chloride	3.954	41	4294	0.053	ppbv #	1
23) Vinyl Acetate	4.616	43	6713	0.071	ppbv #	1
25) Ethyl Acetate	5.211	43	123360	0.499	ppbv #	83
26) Hexane	5.208	57	169945	1.657	ppbv #	36
36) Benzene	6.372	78	61631	0.282	ppbv	94
39) 1,2-Dichloropropane	6.648	63	729923	8.722	ppbv #	25
44) 2,2,4-Trimethylpentane	7.320	57	27908	0.076	ppbv #	21
52) Tetrachloroethene	10.616	164	478867	5.670	ppbv	99
53) Toluene	9.220	91	370497	1.522	ppbv	99
58) Ethyl Benzene	12.089	91	32721	0.105	ppbv	98
59) m/p-Xylene	12.346	91	192671	0.713	ppbv	96
60) o-Xylene	13.060	91	38357	0.150	ppbv #	64
74) 1,2,4-Trimethylbenzene	16.108	105	13223	0.044	ppbv #	67

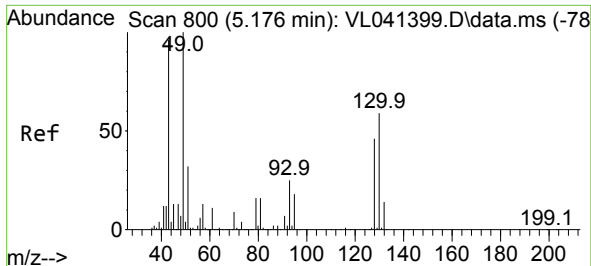
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072924\
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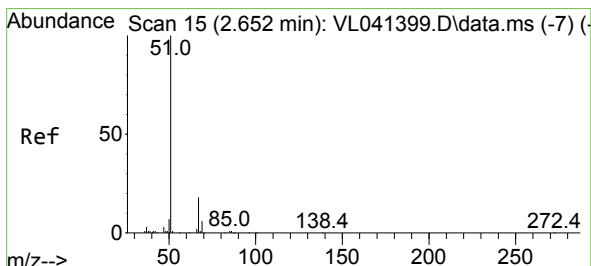
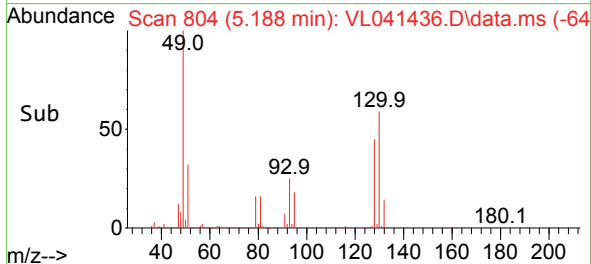
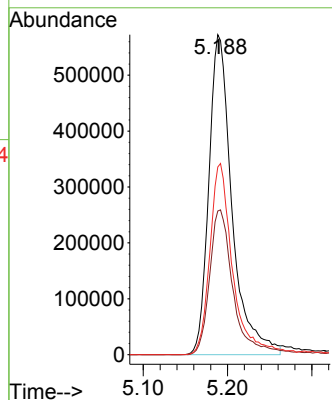
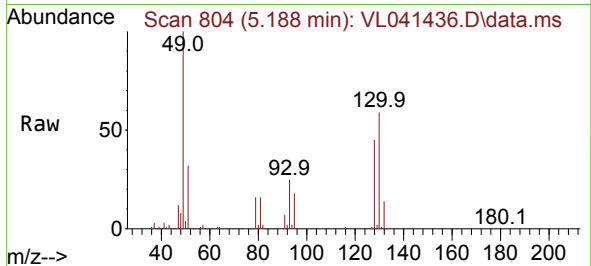




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.188 min Scan# 80
Delta R.T. 0.009 min
Lab File: VL041436.D
Acq: 29 Jul 2024 19:44

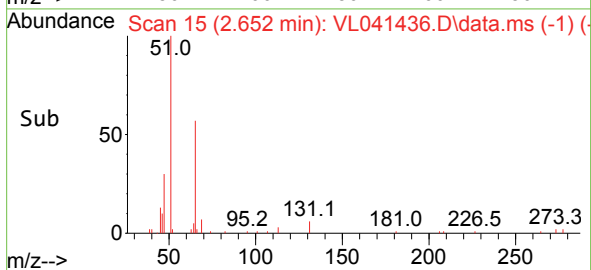
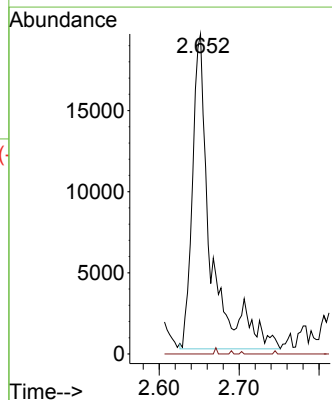
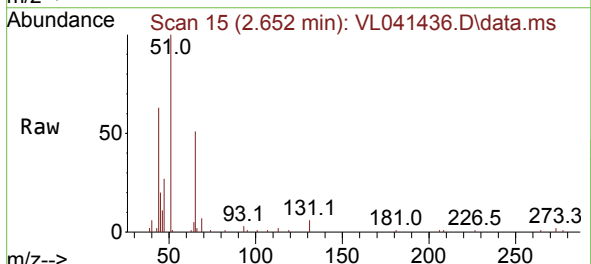
Instrument :
MSVOA_L
ClientSampleId :

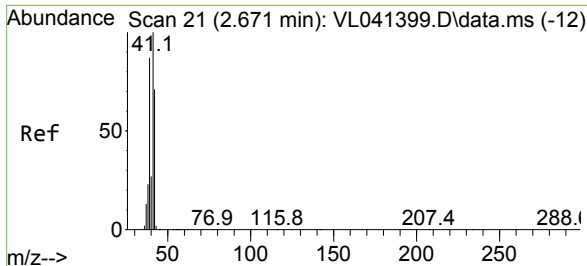
Tgt Ion: 49 Resp: 1095303
Ion Ratio Lower Upper
49 100
128 47.5 23.8 71.4
130 60.6 30.8 92.4



#3
Chlorodifluoromethane
Concen: 0.237 ppbv
RT: 2.652 min Scan# 15
Delta R.T. -0.003 min
Lab File: VL041436.D
Acq: 29 Jul 2024 19:44

Tgt Ion: 51 Resp: 30947
Ion Ratio Lower Upper
51 100
67 0.2 14.5 21.7#

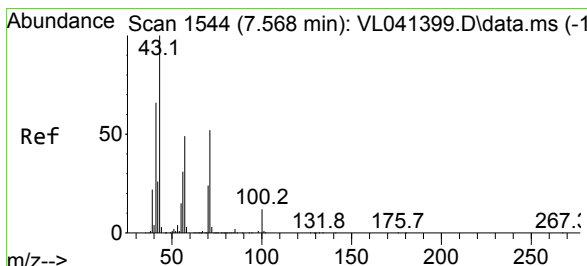
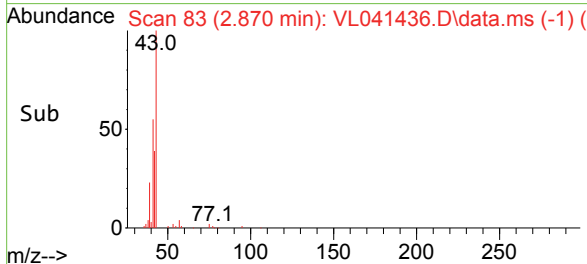
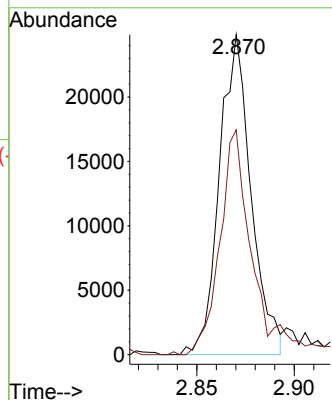
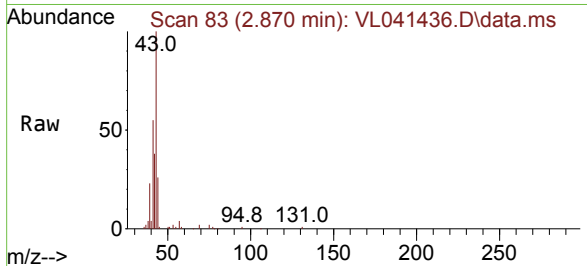




#9
Propene
Concen: 0.468 ppbv
RT: 2.870 min Scan# 81
Delta R.T. 0.199 min
Lab File: VL041436.D
Acq: 29 Jul 2024 19:44

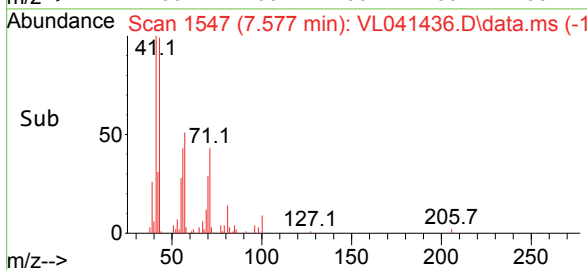
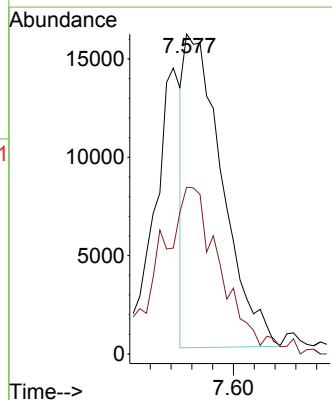
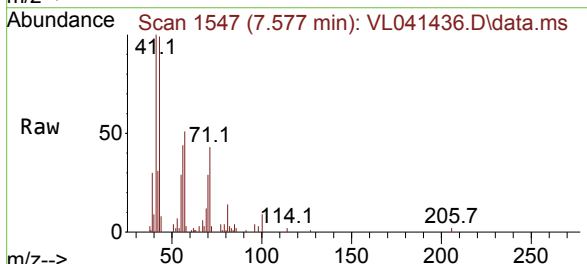
Instrument :
MSVOA_L
ClientSampleId :

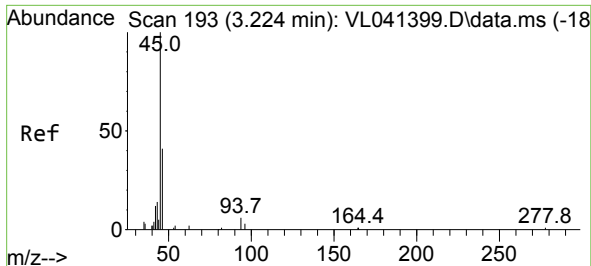
Tgt Ion: 41 Resp: 28032
Ion Ratio Lower Upper
41 100
42 76.5 55.9 83.9



#10
Heptane
Concen: 0.149 ppbv
RT: 7.577 min Scan# 1547
Delta R.T. 0.006 min
Lab File: VL041436.D
Acq: 29 Jul 2024 19:44

Tgt Ion: 43 Resp: 20096
Ion Ratio Lower Upper
43 100
57 88.5 40.5 60.7#

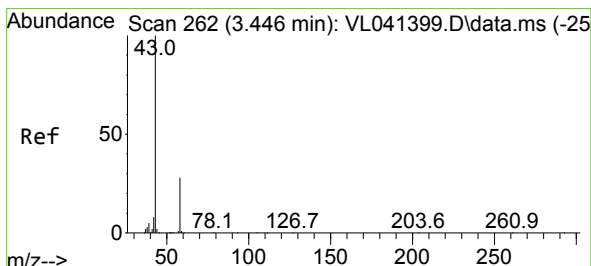
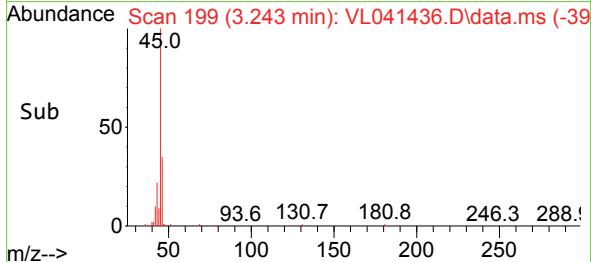
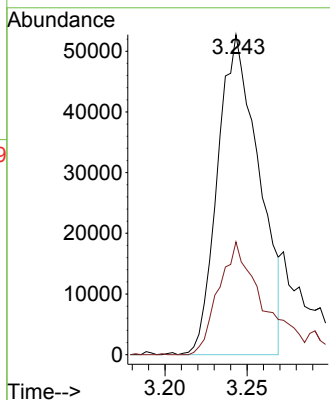
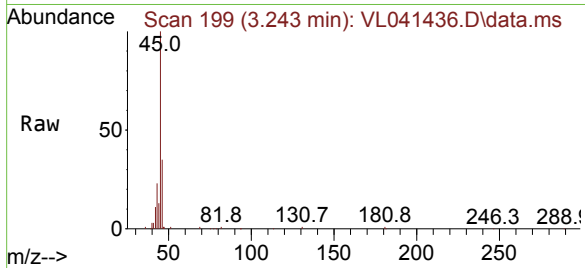




#13
Ethanol
Concen: 17.234 ppbv
RT: 3.243 min Scan# 193
Delta R.T. 0.016 min
Lab File: VL041436.D
Acq: 29 Jul 2024 19:44

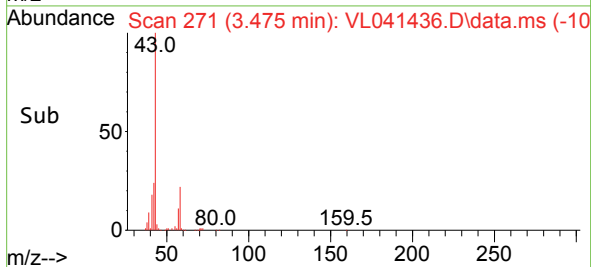
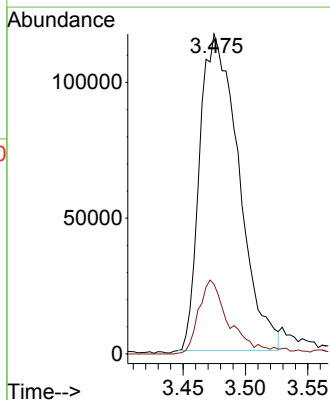
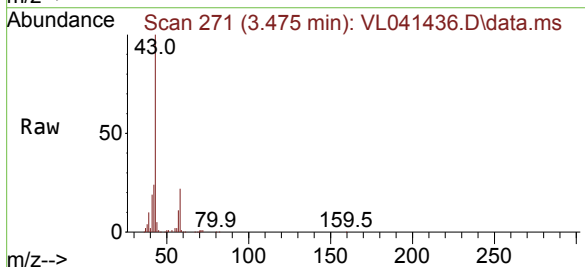
Instrument :
MSVOA_L
ClientSampleId :

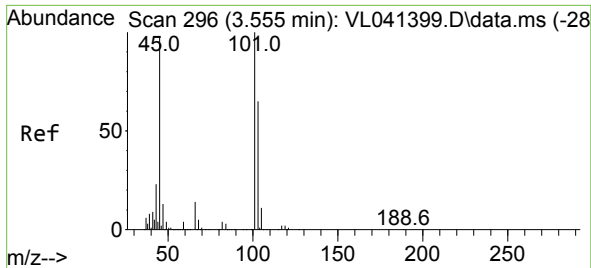
Tgt Ion: 45 Resp: 92263
Ion Ratio Lower Upper
45 100
46 45.0 13.4 53.4



#15
Acetone
Concen: 2.039 ppbv
RT: 3.475 min Scan# 271
Delta R.T. 0.022 min
Lab File: VL041436.D
Acq: 29 Jul 2024 19:44

Tgt Ion: 43 Resp: 253736
Ion Ratio Lower Upper
43 100
58 19.7 21.4 32.2#





#19

Isopropyl Alcohol

Concen: 0.214 ppbv

RT: 3.581 min Scan# 304

Delta R.T. 0.019 min

Lab File: VL041436.D

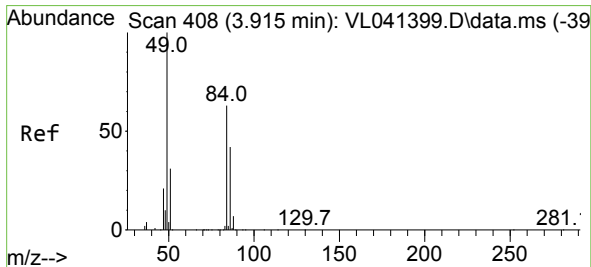
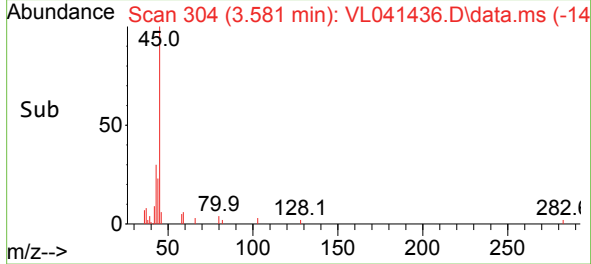
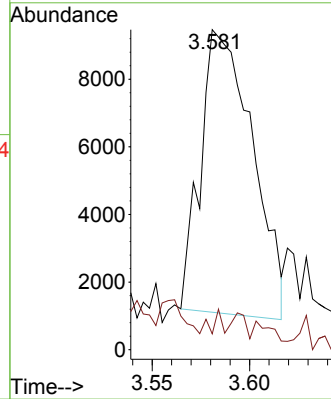
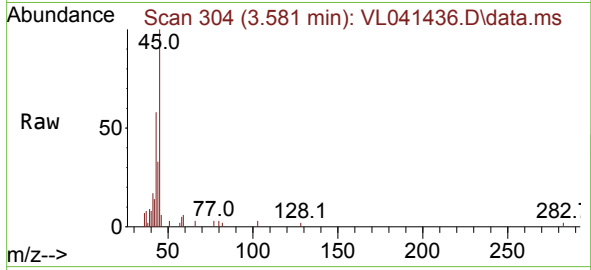
Acq: 29 Jul 2024 19:44

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 45 Resp: 15541
 Ion Ratio Lower Upper
 45 100
 58 14.8 1.9 2.9#



#20

Methylene Chloride

Concen: 3.001 ppbv

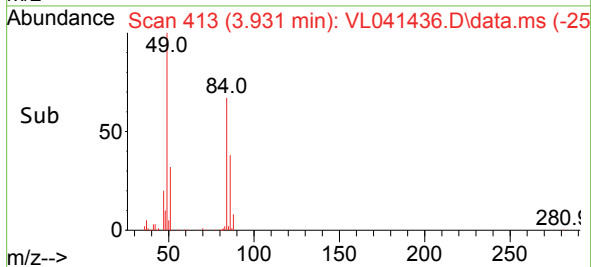
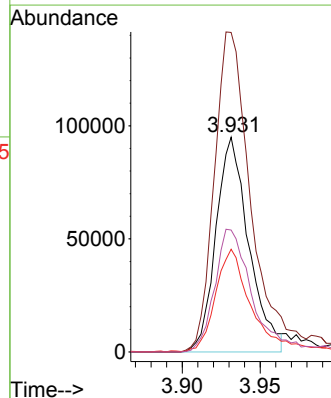
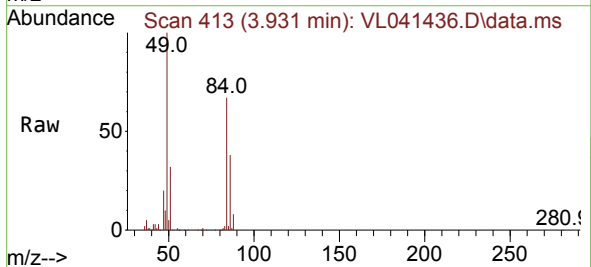
RT: 3.931 min Scan# 413

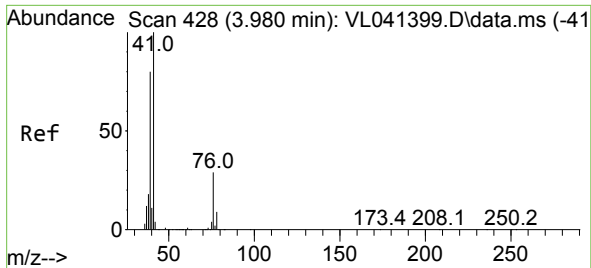
Delta R.T. 0.013 min

Lab File: VL041436.D

Acq: 29 Jul 2024 19:44

Tgt Ion: 84 Resp: 139288
 Ion Ratio Lower Upper
 84 100
 49 148.8 126.6 190.0
 51 47.6 38.6 58.0
 86 56.8 53.0 79.4

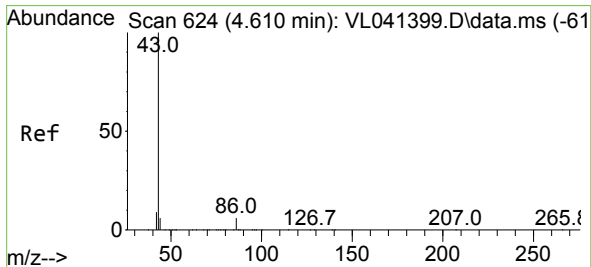
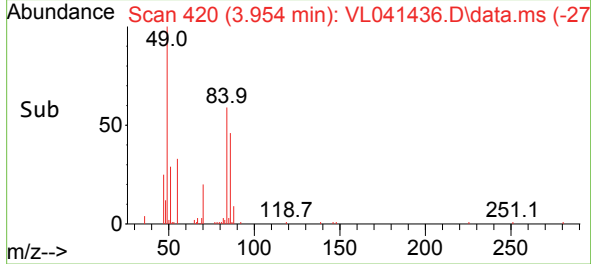
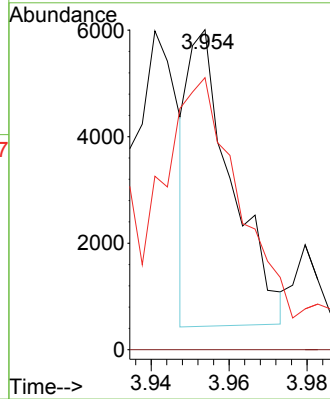
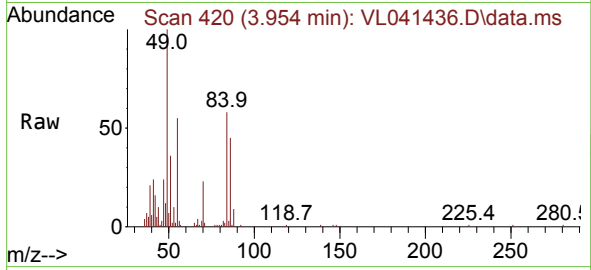




#21
 Allyl Chloride
 Concen: 0.053 ppbv
 RT: 3.954 min Scan# 41
 Delta R.T. -0.026 min
 Lab File: VL041436.D
 Acq: 29 Jul 2024 19:44

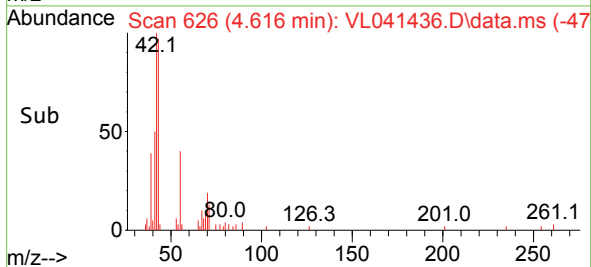
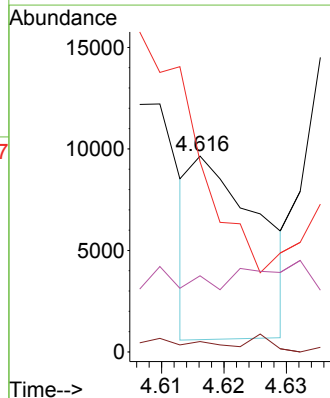
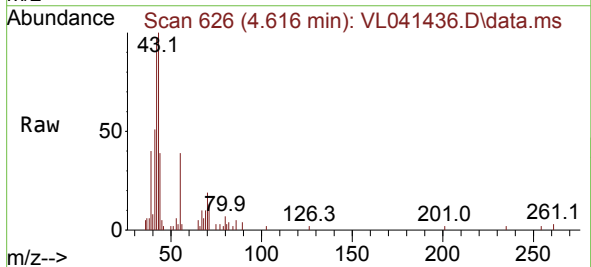
Instrument :
 MSVOA_L
 ClientSampleId :

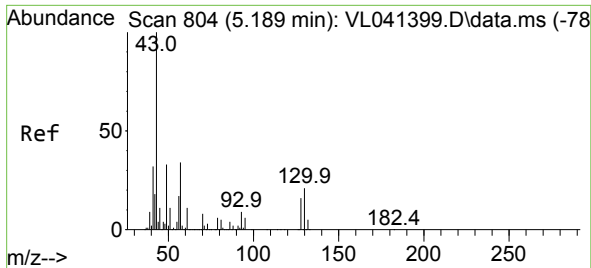
Tgt Ion: 41 Resp: 4294
 Ion Ratio Lower Upper
 41 100
 76 0.0 23.7 35.5#
 39 236.2 64.3 96.5#



#23
 Vinyl Acetate
 Concen: 0.071 ppbv
 RT: 4.616 min Scan# 626
 Delta R.T. 0.003 min
 Lab File: VL041436.D
 Acq: 29 Jul 2024 19:44

Tgt Ion: 43 Resp: 6713
 Ion Ratio Lower Upper
 43 100
 86 9.5 4.6 6.8#
 42 122.1 7.9 11.9#
 44 16.6 4.2 6.4#

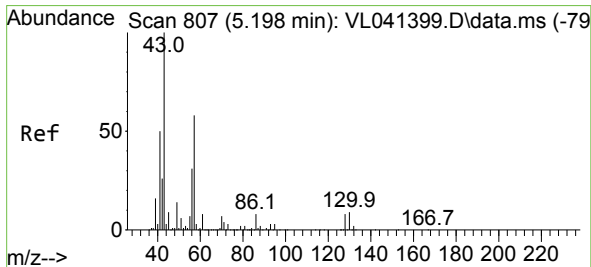
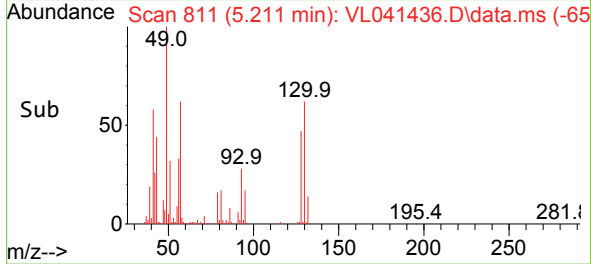
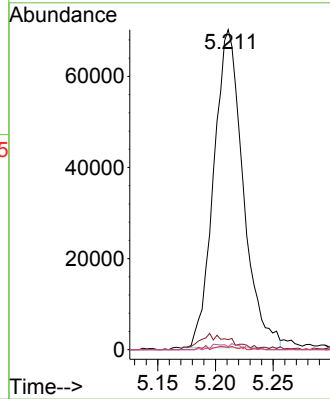
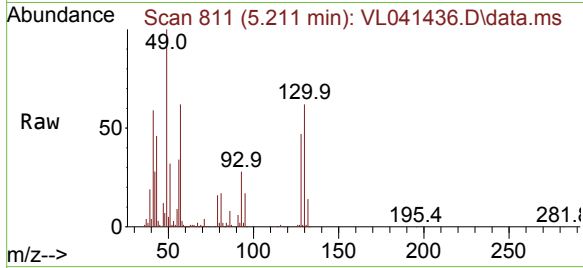




#25
Ethyl Acetate
Concen: 0.499 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.019 min
Lab File: VL041436.D
Acq: 29 Jul 2024 19:44

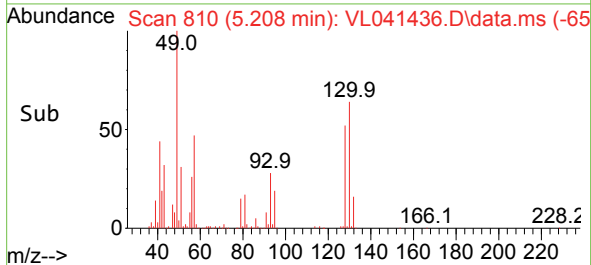
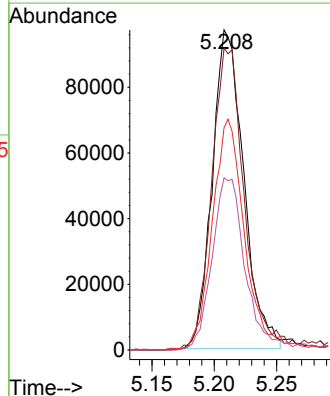
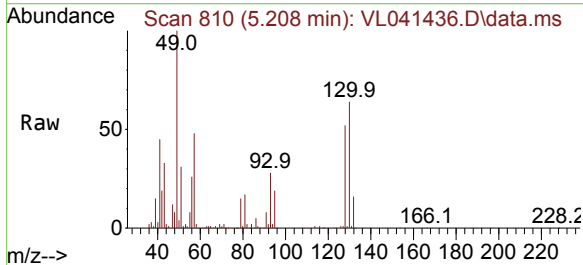
Instrument :
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ClientSampleId :

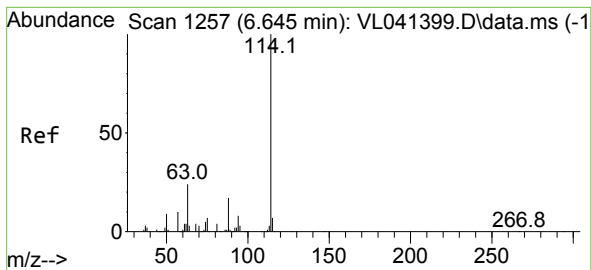
Tgt Ion: 43 Resp: 123360
Ion Ratio Lower Upper
43 100
45 6.0 8.5 12.7#
61 1.1 8.0 12.0#
70 1.7 5.9 8.9#



#26
Hexane
Concen: 1.657 ppbv
RT: 5.208 min Scan# 810
Delta R.T. 0.010 min
Lab File: VL041436.D
Acq: 29 Jul 2024 19:44

Tgt Ion: 57 Resp: 169945
Ion Ratio Lower Upper
57 100
41 99.8 74.0 111.0
43 75.6 193.6 290.4#
56 58.9 43.1 64.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.651 min Scan# 1172

Delta R.T. 0.006 min

Lab File: VL041436.D

Acq: 29 Jul 2024 19:44

Instrument :

MSVOA_L

ClientSampleId :

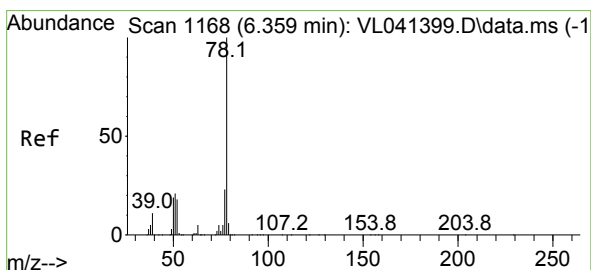
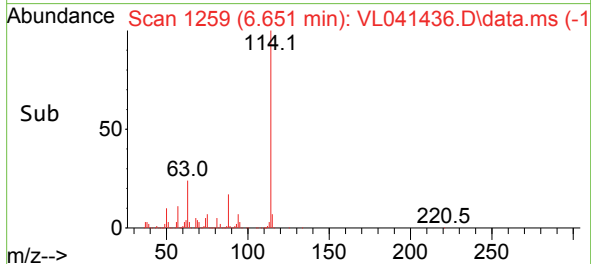
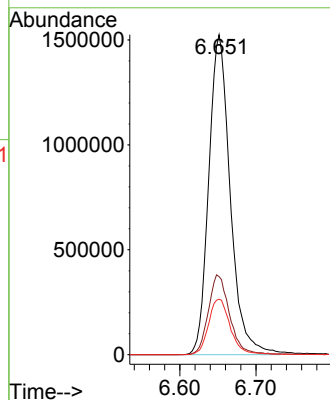
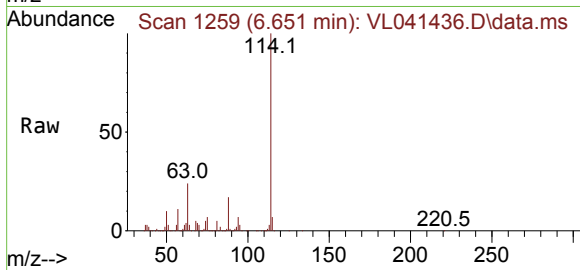
Tgt Ion:114 Resp: 2991446

Ion Ratio Lower Upper

114 100

63 25.0 20.3 30.5

88 17.7 14.3 21.5



#36

Benzene

Concen: 0.282 ppbv

RT: 6.372 min Scan# 1172

Delta R.T. 0.013 min

Lab File: VL041436.D

Acq: 29 Jul 2024 19:44

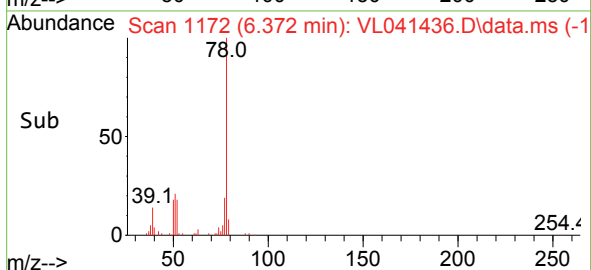
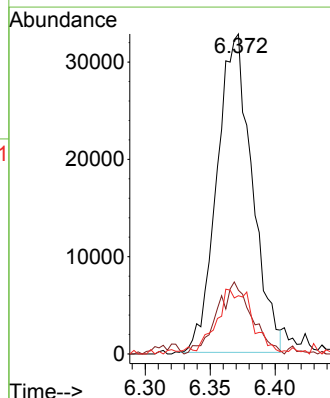
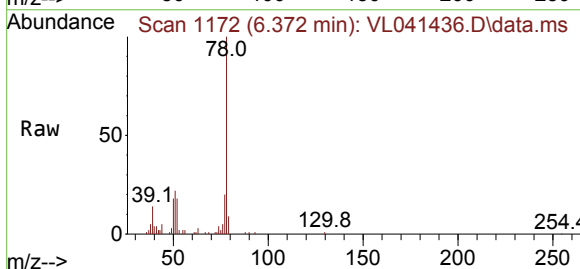
Tgt Ion: 78 Resp: 61631

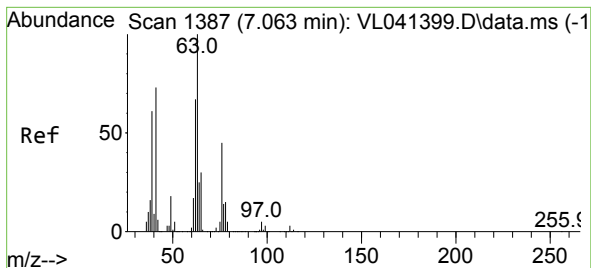
Ion Ratio Lower Upper

78 100

77 18.9 18.1 27.1

50 17.6 15.5 23.3





#39

1,2-Dichloropropane

Concen: 8.722 ppbv

RT: 6.648 min Scan# 11

Delta R.T. -0.415 min

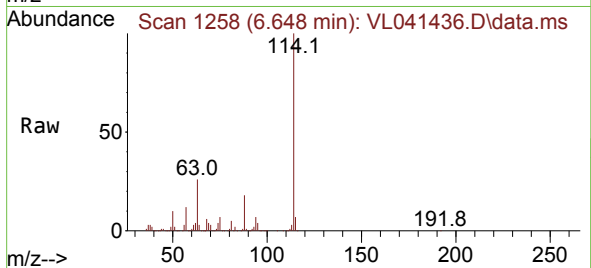
Lab File: VL041436.D

Acq: 29 Jul 2024 19:44

Instrument :

MSVOA_L

ClientSampleId :



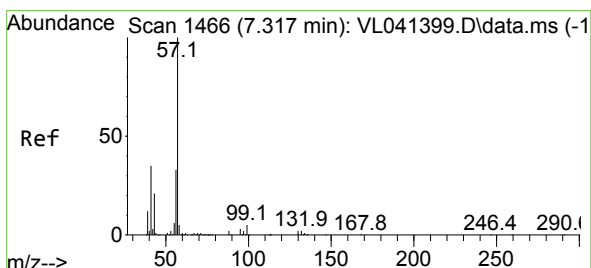
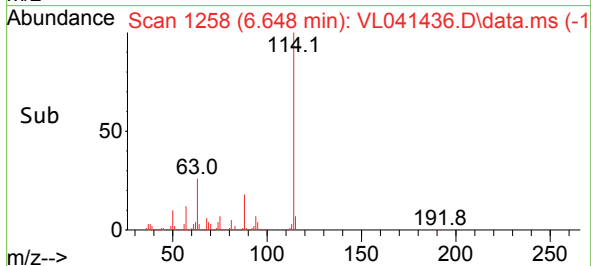
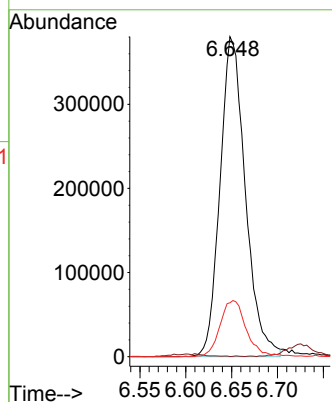
Tgt Ion: 63 Resp: 729923

Ion Ratio Lower Upper

63 100

41 0.0 58.3 87.5#

62 16.9 53.9 80.9#



#44

2,2,4-Trimethylpentane

Concen: 0.076 ppbv

RT: 7.320 min Scan# 1467

Delta R.T. 0.003 min

Lab File: VL041436.D

Acq: 29 Jul 2024 19:44

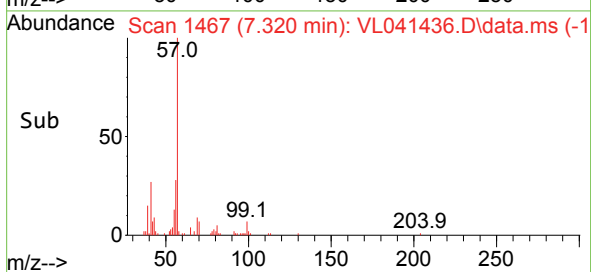
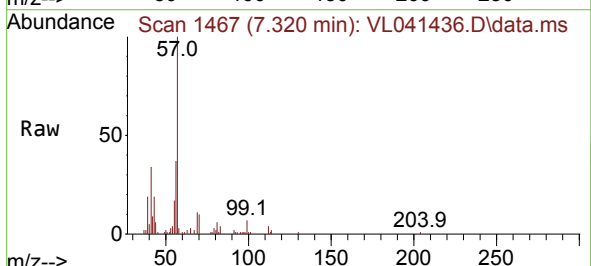
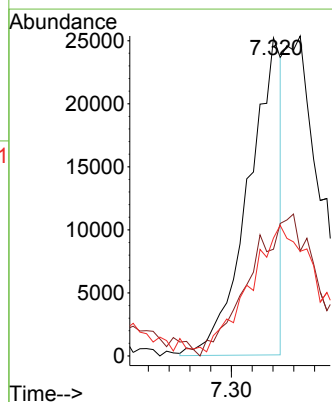
Tgt Ion: 57 Resp: 27908

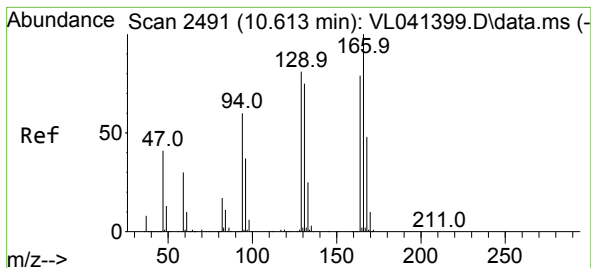
Ion Ratio Lower Upper

57 100

41 0.0 27.0 40.6#

56 87.4 25.2 37.8#





#52

Tetrachloroethene

Concen: 5.670 ppbv

RT: 10.616 min Scan# 2491

Delta R.T. 0.006 min

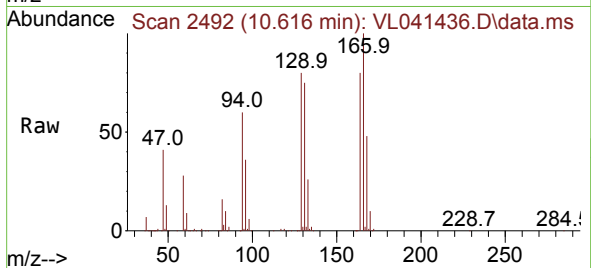
Lab File: VL041436.D

Acq: 29 Jul 2024 19:44

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:164 Resp: 478867

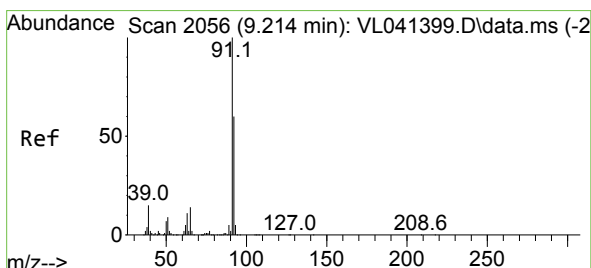
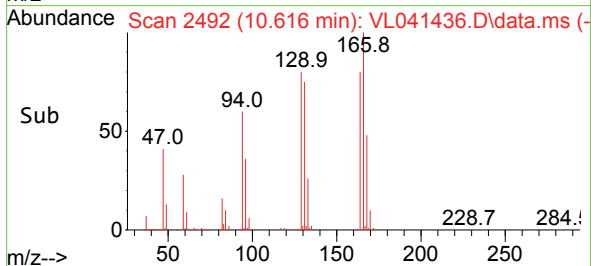
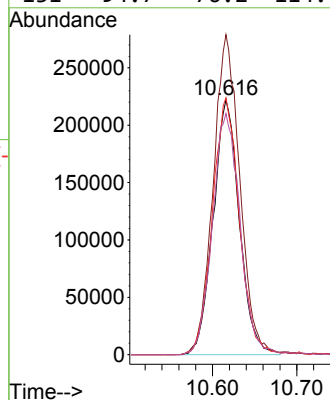
Ion Ratio Lower Upper

164 100

166 125.6 101.1 151.7

129 100.8 81.7 122.5

131 94.7 76.2 114.4



#53

Toluene

Concen: 1.522 ppbv

RT: 9.220 min Scan# 2058

Delta R.T. 0.003 min

Lab File: VL041436.D

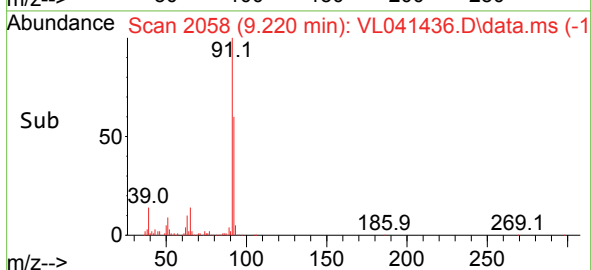
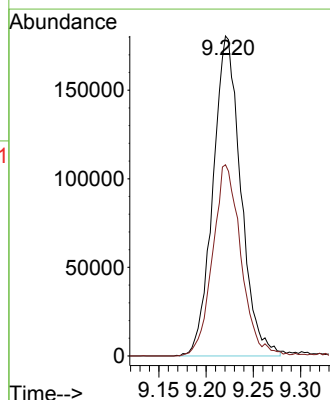
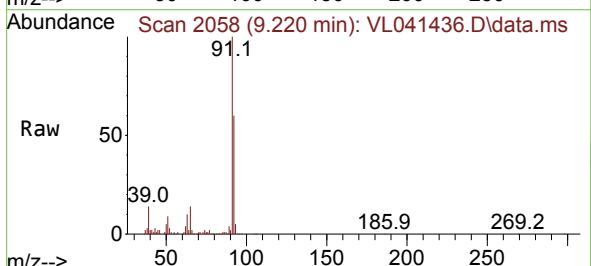
Acq: 29 Jul 2024 19:44

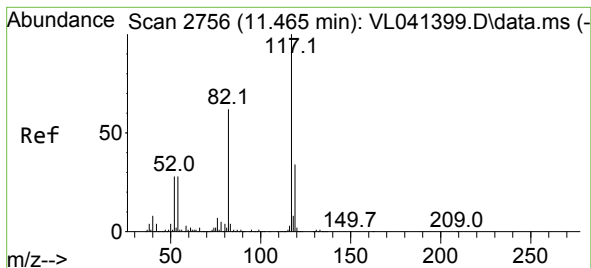
Tgt Ion: 91 Resp: 370497

Ion Ratio Lower Upper

91 100

92 61.3 48.7 73.1





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.468 min Scan# 21

Delta R.T. 0.003 min

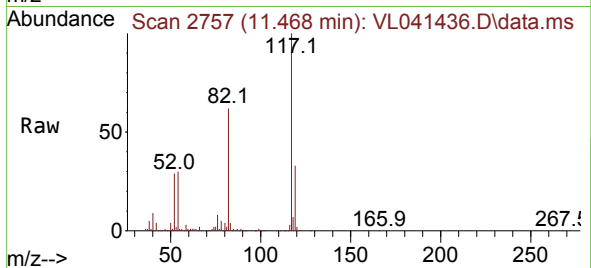
Lab File: VL041436.D

Acq: 29 Jul 2024 19:44

Instrument :

MSVOA_L

ClientSampleId :



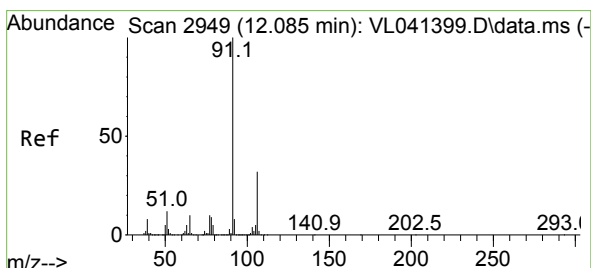
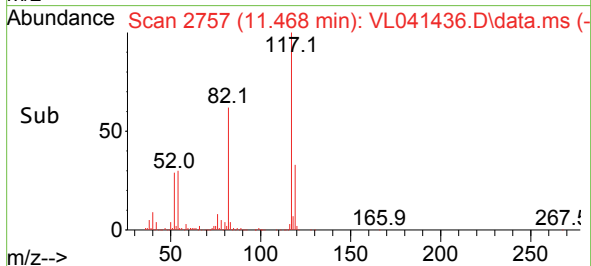
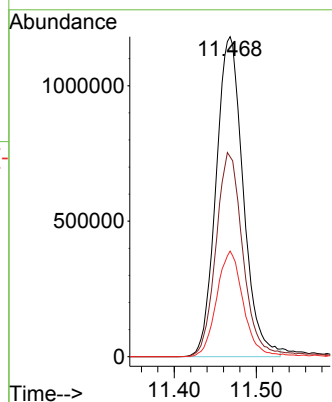
Tgt Ion:117 Resp: 2716227

Ion Ratio Lower Upper

117 100

82 64.8 51.0 76.6

119 32.8 45.2 67.8#



#58

Ethyl Benzene

Concen: 0.105 ppbv

RT: 12.089 min Scan# 2950

Delta R.T. 0.003 min

Lab File: VL041436.D

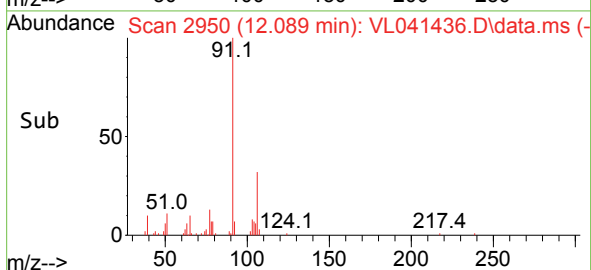
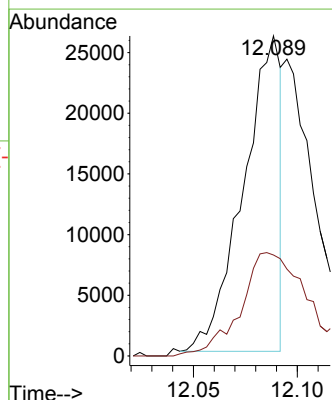
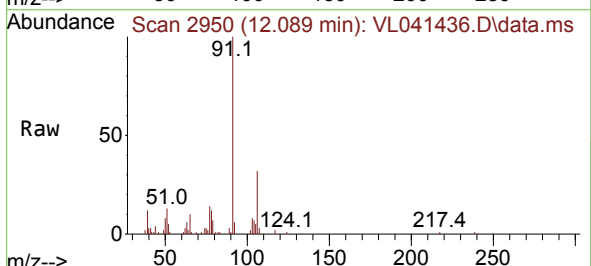
Acq: 29 Jul 2024 19:44

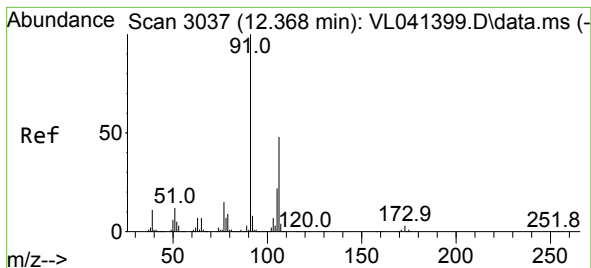
Tgt Ion: 91 Resp: 32721

Ion Ratio Lower Upper

91 100

106 31.4 25.8 38.8





#59

m/p-Xylene

Concen: 0.713 ppbv

RT: 12.346 min Scan# 3030

Delta R.T. -0.023 min

Lab File: VL041436.D

Acq: 29 Jul 2024 19:44

Instrument :

MSVOA_L

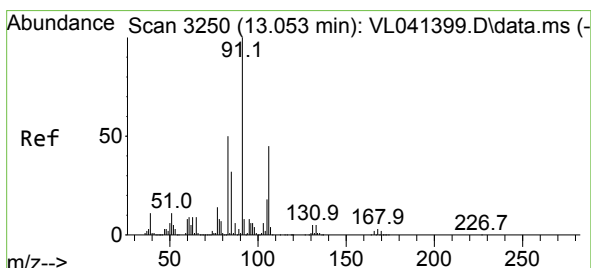
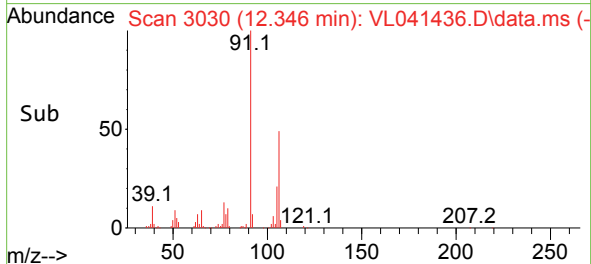
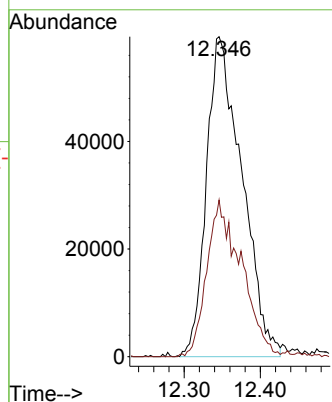
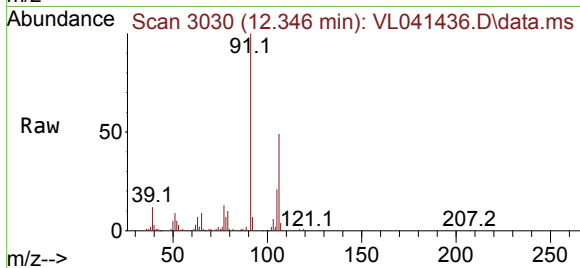
ClientSampleId :

Tgt Ion: 91 Resp: 192671

Ion Ratio Lower Upper

91 100

106 48.3 36.3 54.5



#60

o-Xylene

Concen: 0.150 ppbv

RT: 13.060 min Scan# 3252

Delta R.T. 0.003 min

Lab File: VL041436.D

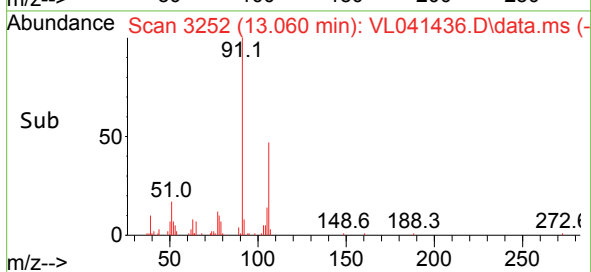
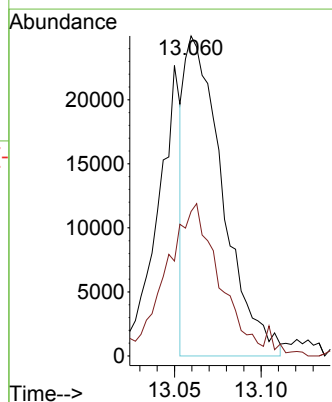
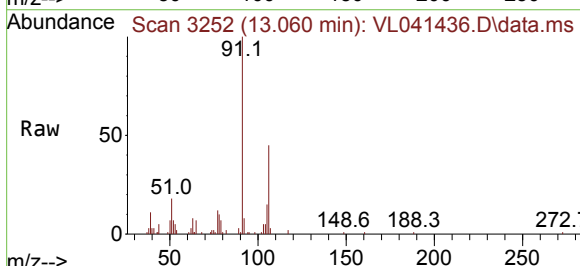
Acq: 29 Jul 2024 19:44

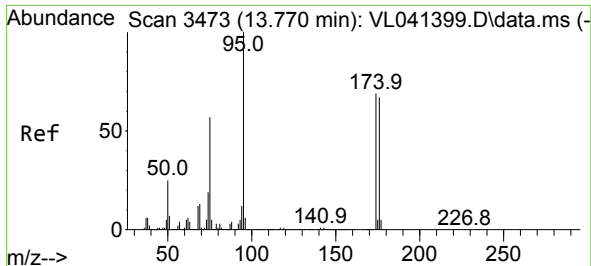
Tgt Ion: 91 Resp: 38357

Ion Ratio Lower Upper

91 100

106 70.1 23.1 69.3#

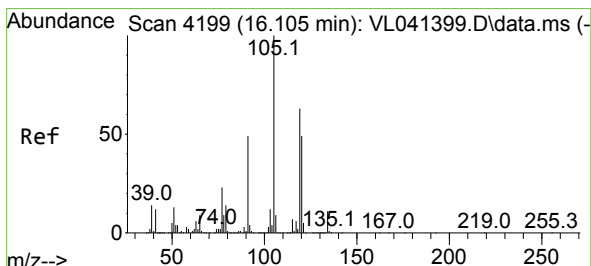
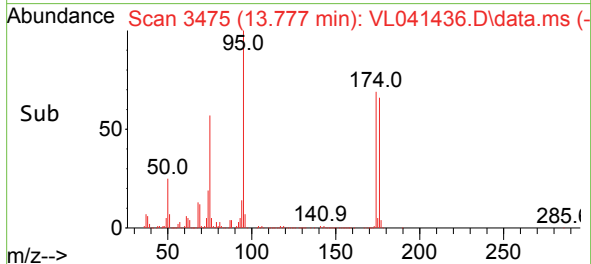
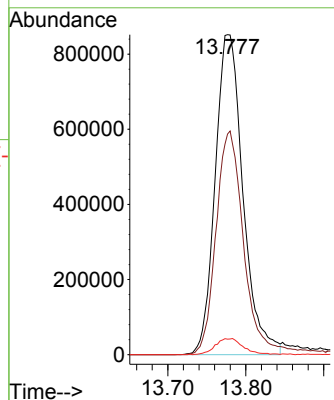
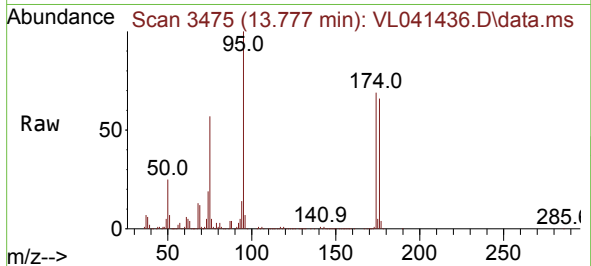




#68
1-Bromo-4-Fluorobenzene
Concen: 10.119 ppbv
RT: 13.777 min Scan# 3475
Delta R.T. 0.003 min
Lab File: VL041436.D
Acq: 29 Jul 2024 19:44

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 95 Resp: 2115240
Ion Ratio Lower Upper
95 100
174 72.1 56.3 84.5
175 5.2 4.0 6.0



#74
1,2,4-Trimethylbenzene
Concen: 0.044 ppbv
RT: 16.108 min Scan# 4200
Delta R.T. -0.000 min
Lab File: VL041436.D
Acq: 29 Jul 2024 19:44

Tgt Ion:105 Resp: 13223
Ion Ratio Lower Upper
105 100
120 57.8 39.5 59.3
91 7.3 39.8 59.8#
77 16.2 18.2 27.4#

