

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072425\
 Data File : VL042758.D
 Acq On : 24 Jul 2025 10:12
 Operator : SY/MD
 Sample : VL0724ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0724ABL01

Quant Time: Jul 25 01:23:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

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

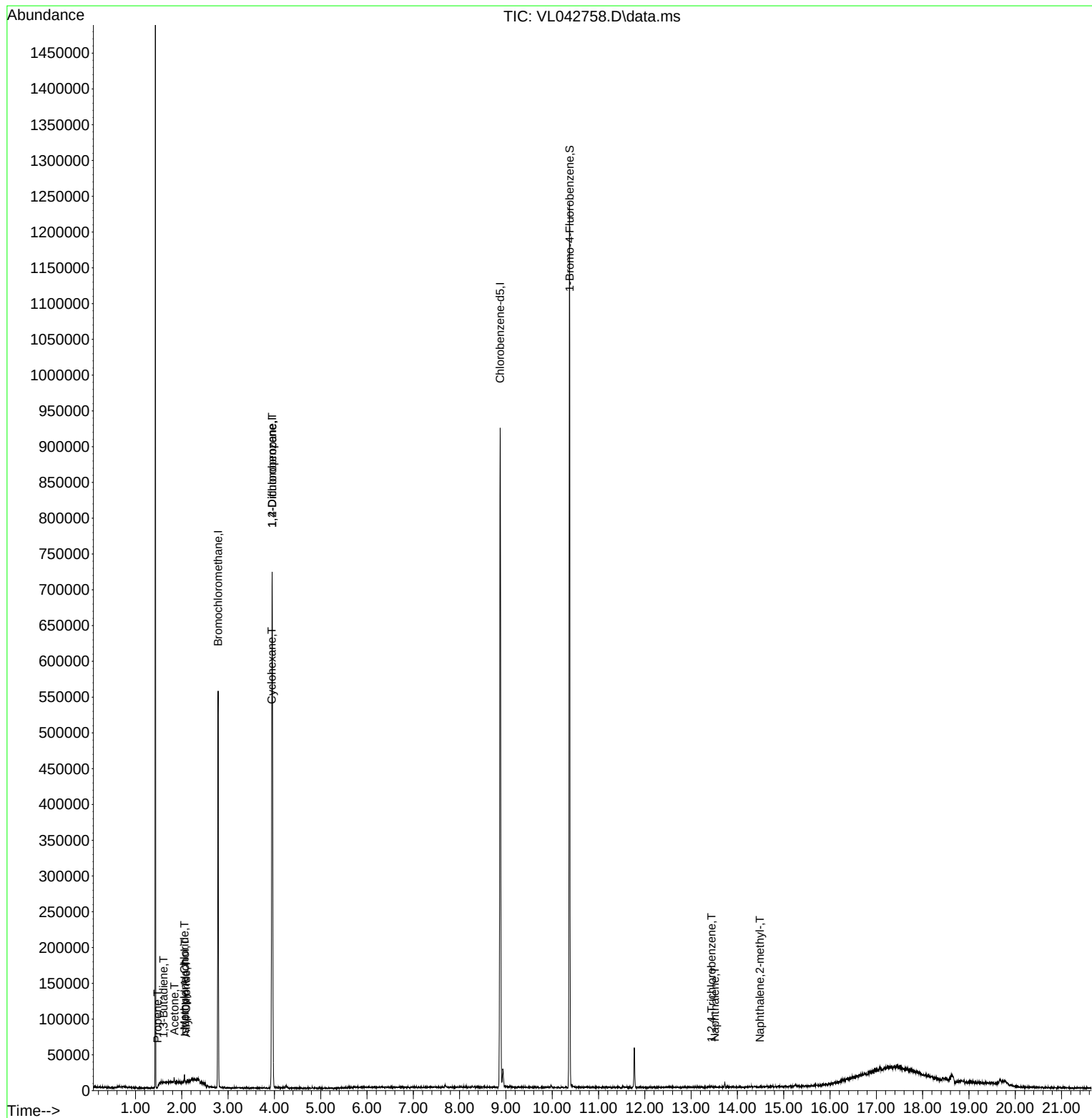
Internal Standards							
1) Bromochloromethane		2.784	49	147578	10.000	ppbv	0.00
33) 1,4-Difluorobenzene		3.952	114	413602	10.000	ppbv	0.00
55) Chlorobenzene-d5		8.875	117	364492	10.000	ppbv	0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		10.374	95	290722	10.072	ppbv	0.00
Spiked Amount		10.000	Range	65 - 135	Recovery	= 100.700%	
Target Compounds							
							Qvalue
9) Propene		1.479	41	206	0.022	ppbv	# 17
13) Ethanol		1.674	45	346	Below Cal		# 27
15) Acetone		1.839	43	2684	0.132	ppbv	# 64
16) 1,3-Butadiene		1.606	39	193	0.022	ppbv	# 16
19) Isopropyl Alcohol		2.069	45	306	0.028	ppbv	# 64
20) Methylene Chloride		2.059	84	1535	0.239	ppbv	# 84
21) Allyl Chloride		2.094	41	260	0.021	ppbv	# 17
30) Cyclohexane		3.943	84	798	0.048	ppbv	# 6
39) 1,2-Dichloropropane		3.952	63	107684	7.442	ppbv	# 21
79) Naphthalene		13.513	128	155	0.438	ppbv	# 61
80) Naphthalene,2-methyl-		14.488	142	110	1.132	ppbv	# 76
81) 1,2,4-Trichlorobenzene		13.442	180	132	0.439	ppbv	# 62

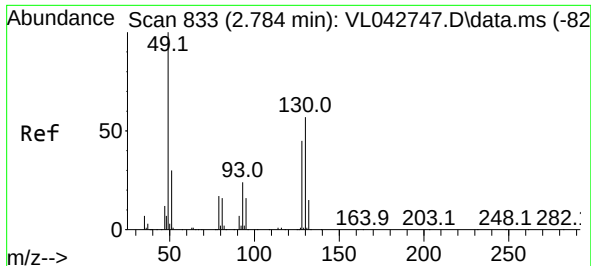
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 25 01:23:38 2025
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

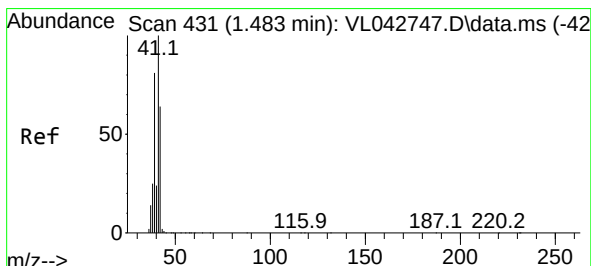
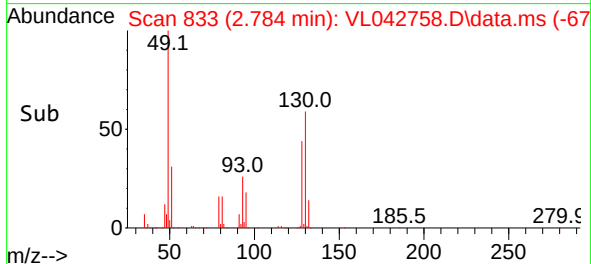
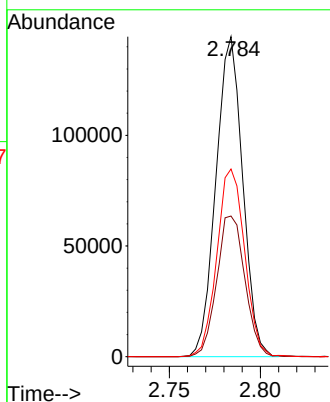
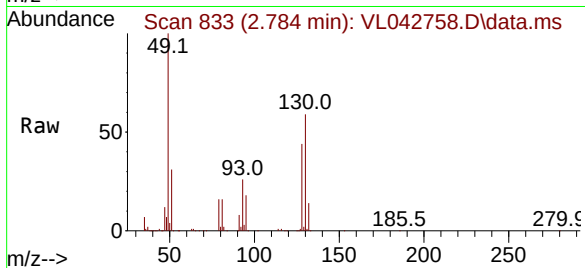




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042758.D
Acq: 24 Jul 2025 10:12

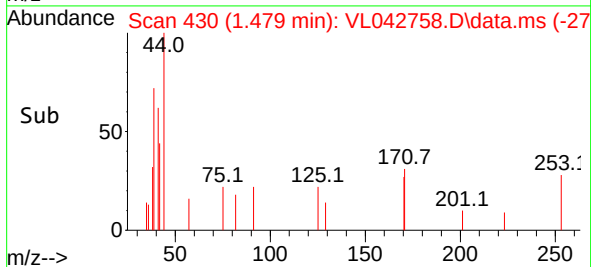
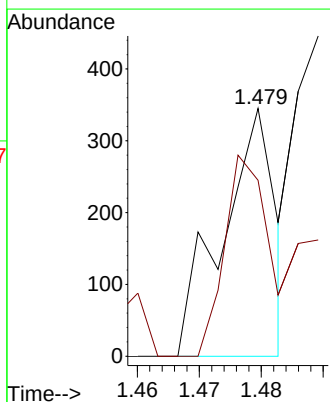
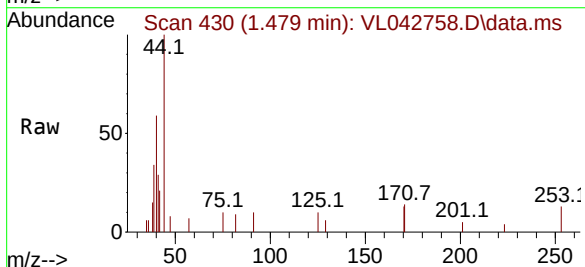
Instrument :
MSVOA_L
ClientSampleId :
VL0724ABL01

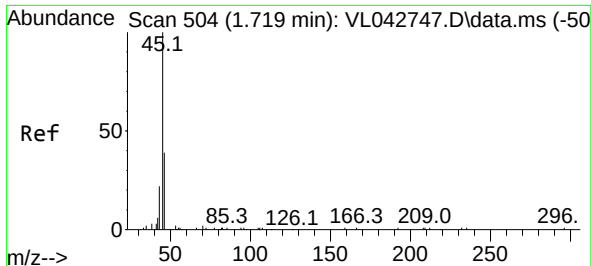
Tgt Ion: 49 Resp: 147578
Ion Ratio Lower Upper
49 100
128 46.3 23.6 71.0
130 61.0 30.3 90.8



#9
Propene
Concen: 0.022 ppbv
RT: 1.479 min Scan# 430
Delta R.T. -0.003 min
Lab File: VL042758.D
Acq: 24 Jul 2025 10:12

Tgt Ion: 41 Resp: 206
Ion Ratio Lower Upper
41 100
42 0.0 53.2 79.8#

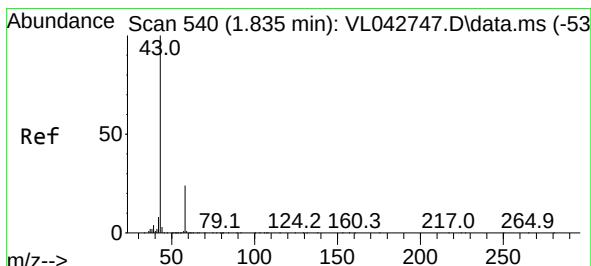
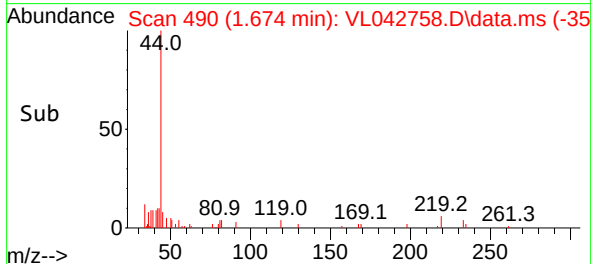
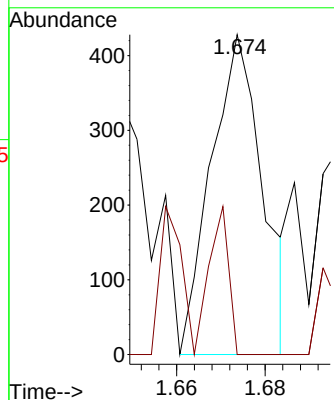
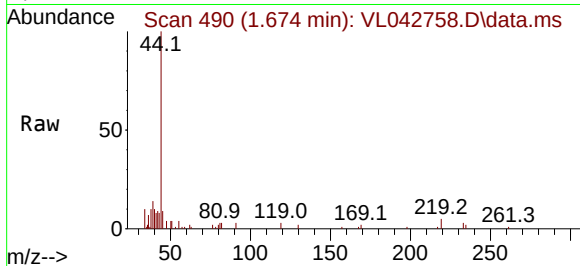




#13
Ethanol
Concen: Below Cal
RT: 1.674 min Scan# 49
Delta R.T. -0.045 min
Lab File: VL042758.D
Acq: 24 Jul 2025 10:12

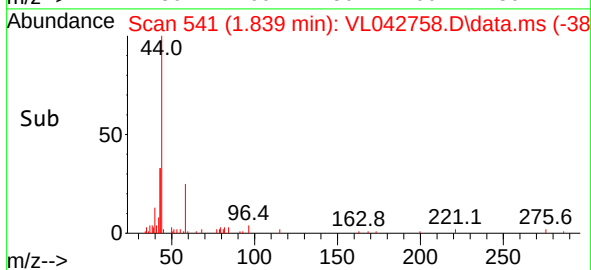
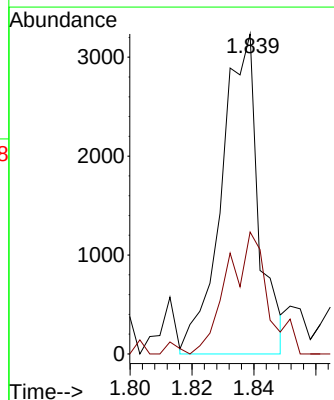
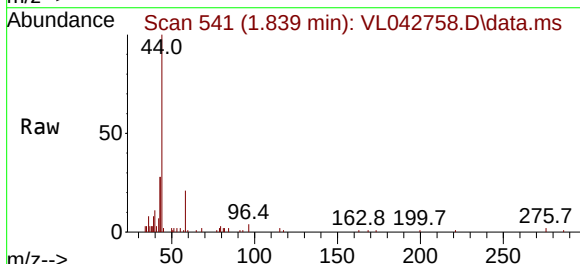
Instrument :
MSVOA_1
ClientSampleId :
VL0724ABL01

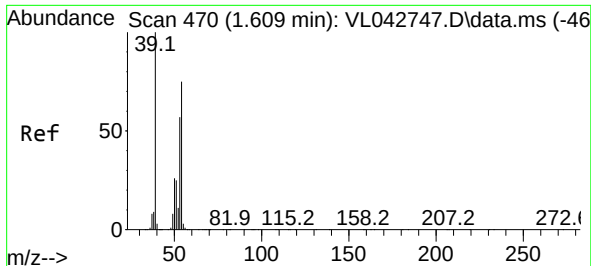
Tgt Ion: 45 Resp: 346
Ion Ratio Lower Upper
45 100
46 91.9 17.8 71.4#



#15
Acetone
Concen: 0.132 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042758.D
Acq: 24 Jul 2025 10:12

Tgt Ion: 43 Resp: 2684
Ion Ratio Lower Upper
43 100
58 42.7 19.8 29.8#

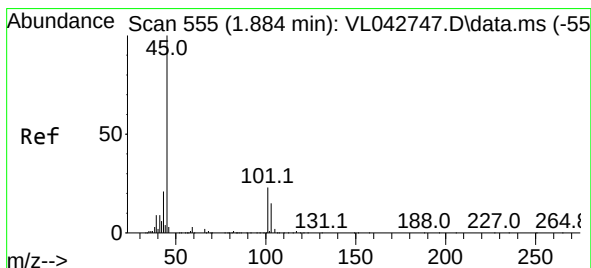
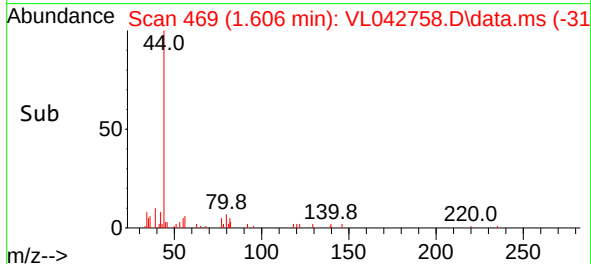
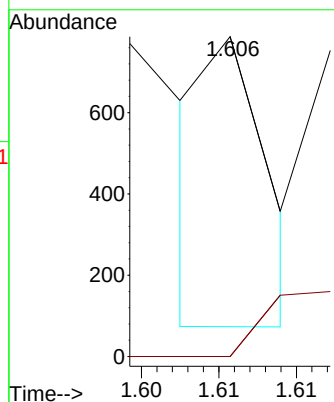
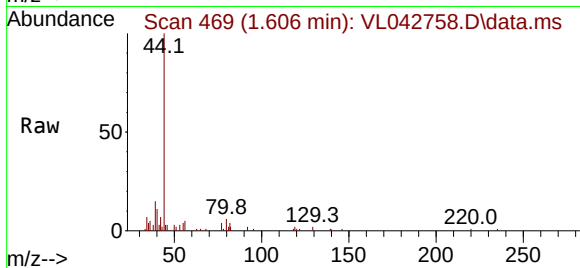




#16
1,3-Butadiene
Concen: 0.022 ppbv
RT: 1.606 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042758.D
Acq: 24 Jul 2025 10:12

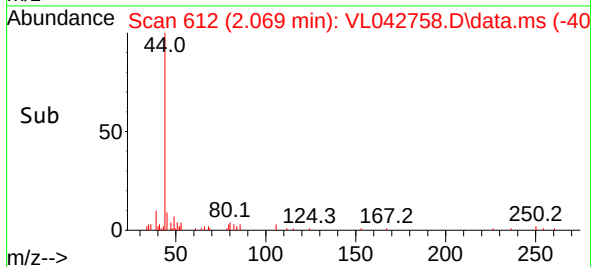
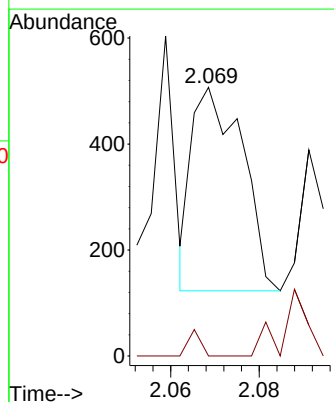
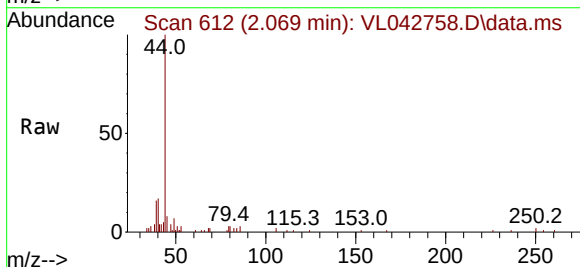
Instrument :
MSVOA_L
ClientSampleId :
VL0724ABL01

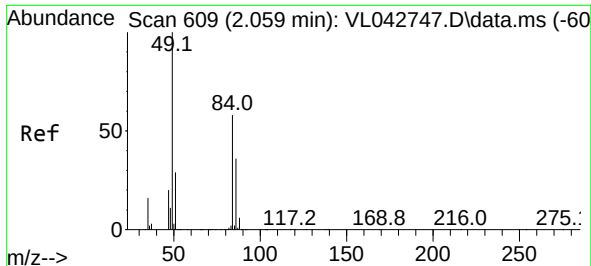
Tgt Ion: 39 Resp: 193
Ion Ratio Lower Upper
39 100
54 0.0 54.5 81.7#



#19
Isopropyl Alcohol
Concen: 0.028 ppbv
RT: 2.069 min Scan# 612
Delta R.T. 0.185 min
Lab File: VL042758.D
Acq: 24 Jul 2025 10:12

Tgt Ion: 45 Resp: 306
Ion Ratio Lower Upper
45 100
58 15.7 30.0 45.0#





#20

Methylene Chloride

Concen: 0.239 ppbv

RT: 2.059 min Scan# 609

Delta R.T. 0.000 min

Lab File: VL042758.D

Acq: 24 Jul 2025 10:12

Instrument :

MSVOA_L

ClientSampleId :

VL0724ABL01

Tgt Ion: 84 Resp: 1535

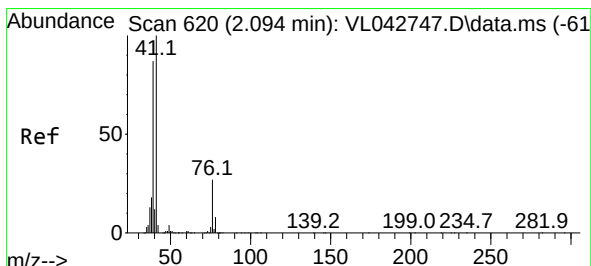
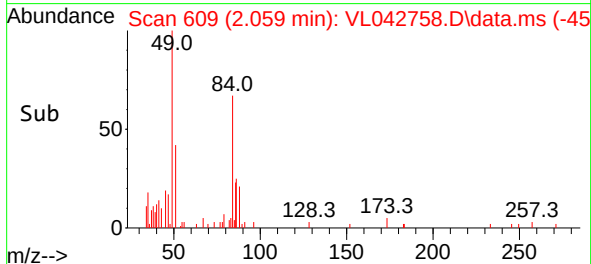
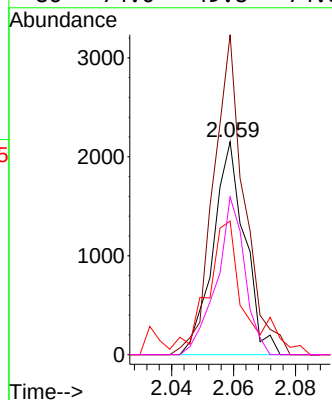
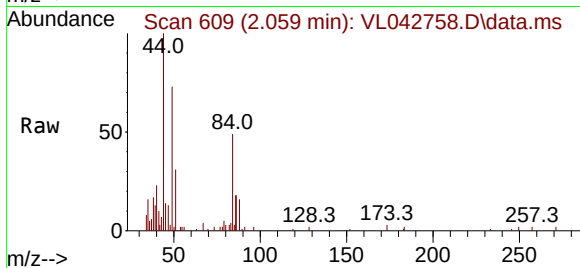
Ion Ratio Lower Upper

84 100

49 147.1 138.6 208.0

51 55.2 40.6 61.0

86 74.0 49.8 74.8



#21

Allyl Chloride

Concen: 0.021 ppbv

RT: 2.094 min Scan# 620

Delta R.T. 0.000 min

Lab File: VL042758.D

Acq: 24 Jul 2025 10:12

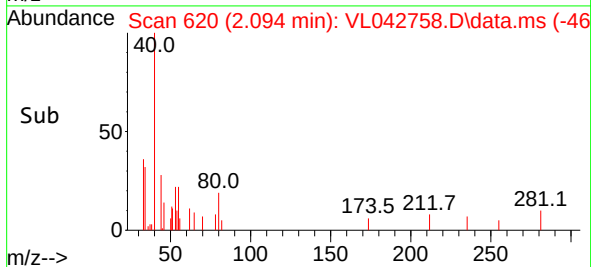
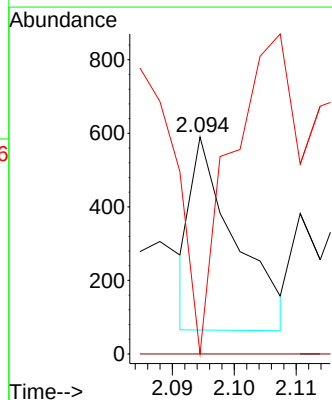
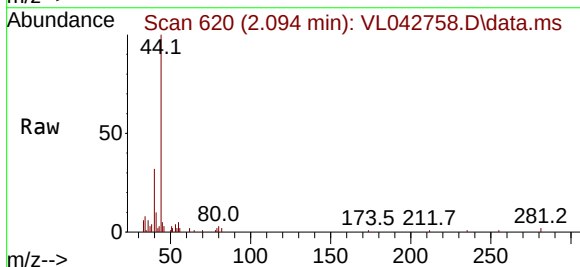
Tgt Ion: 41 Resp: 260

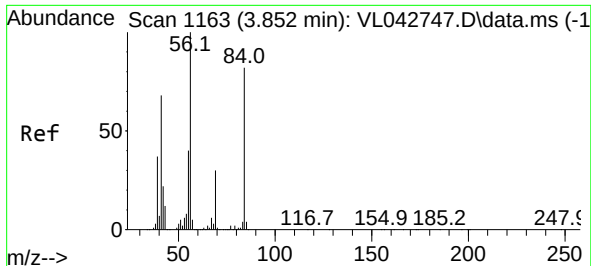
Ion Ratio Lower Upper

41 100

76 0.0 21.1 31.7#

39 0.0 68.3 102.5#

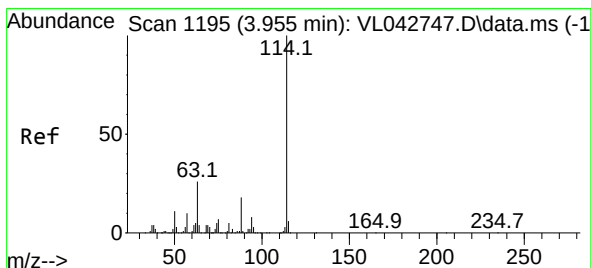
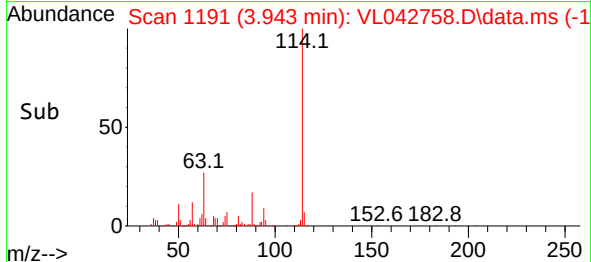
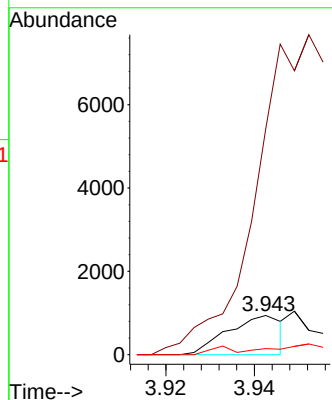
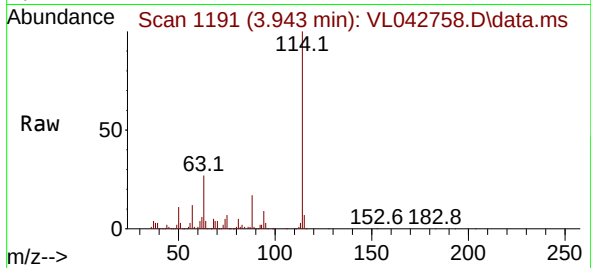




#30
Cyclohexane
Concen: 0.048 ppbv
RT: 3.943 min Scan# 1163
Delta R.T. 0.091 min
Lab File: VL042758.D
Acq: 24 Jul 2025 10:12

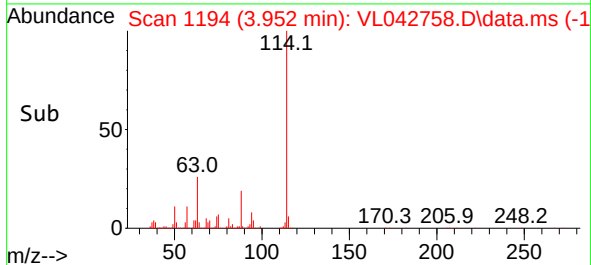
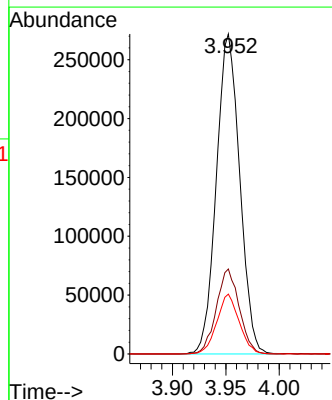
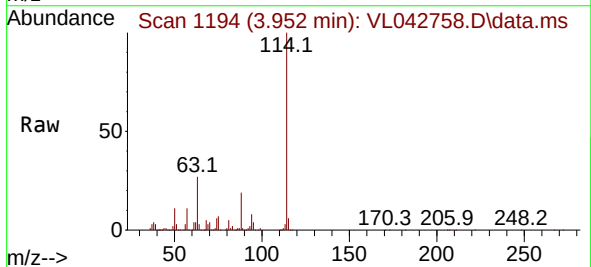
Instrument :
MSVOA_L
ClientSampleId :
VL0724ABL01

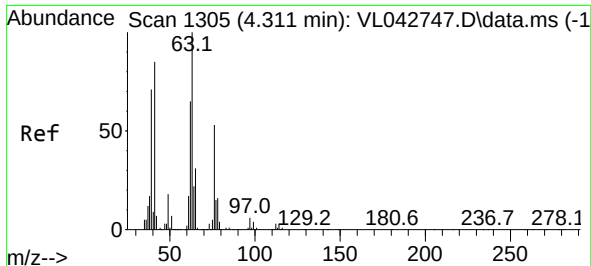
Tgt Ion: 84 Resp: 798
Ion Ratio Lower Upper
84 100
56 0.0 97.5 146.3#
41 18.8 67.2 100.8#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.003 min
Lab File: VL042758.D
Acq: 24 Jul 2025 10:12

Tgt Ion: 114 Resp: 413602
Ion Ratio Lower Upper
114 100
63 26.1 20.5 30.7
88 17.9 14.0 21.0





#39

1,2-Dichloropropane

Concen: 7.442 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.359 min

Lab File: VL042758.D

Acq: 24 Jul 2025 10:12

Instrument :

MSVOA_L

ClientSampleId :

VL0724ABL01

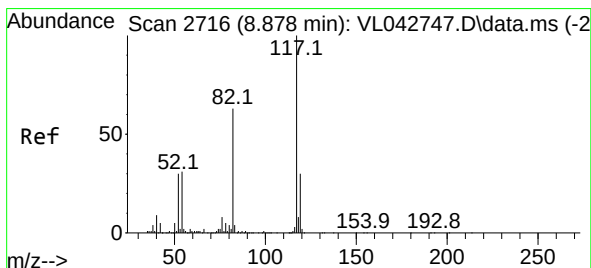
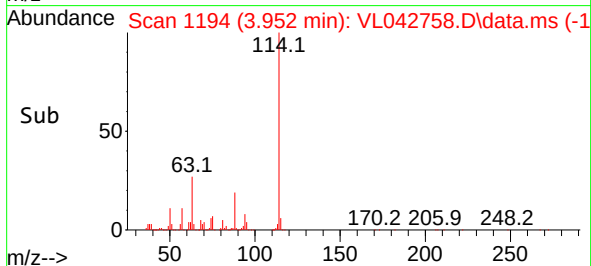
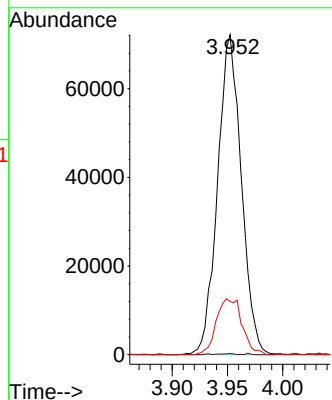
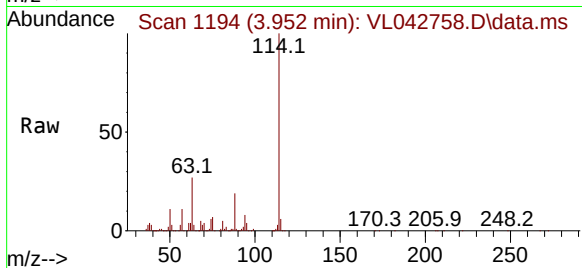
Tgt Ion: 63 Resp: 107684

Ion Ratio Lower Upper

63 100

41 0.3 68.2 102.4#

62 16.7 52.0 78.0#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.875 min Scan# 2715

Delta R.T. -0.003 min

Lab File: VL042758.D

Acq: 24 Jul 2025 10:12

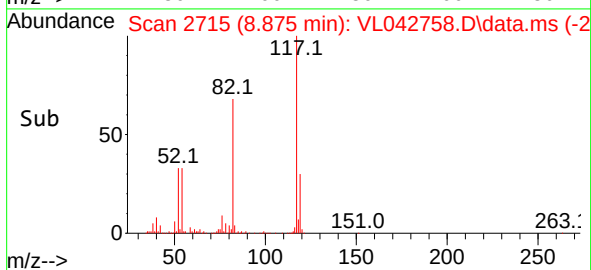
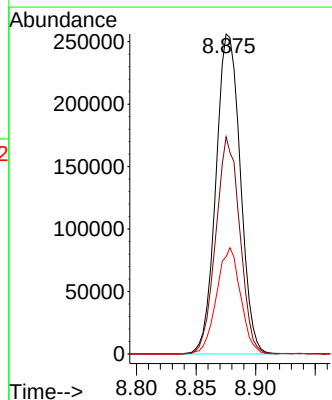
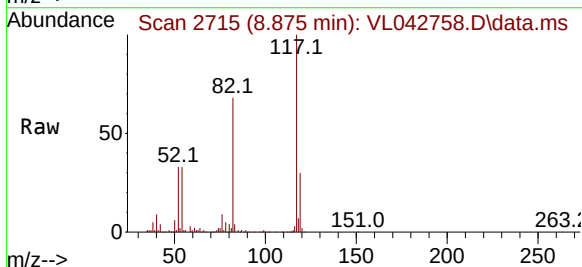
Tgt Ion: 117 Resp: 364492

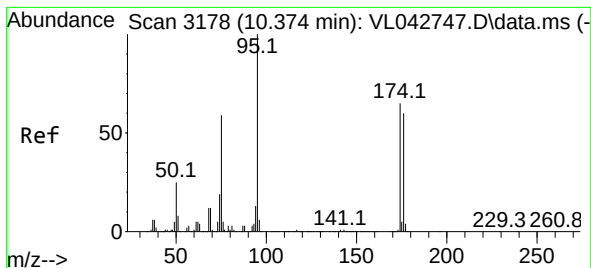
Ion Ratio Lower Upper

117 100

82 66.8 53.3 79.9

119 32.8 25.8 38.6

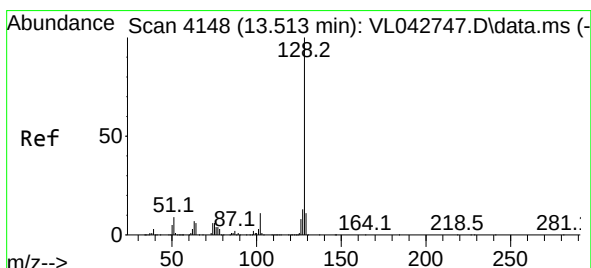
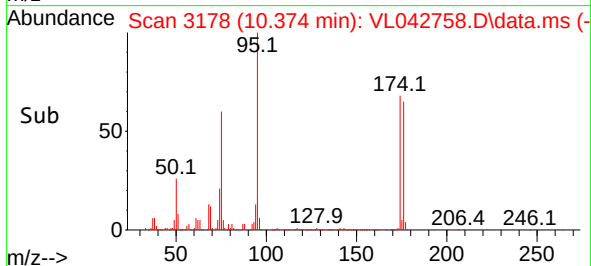
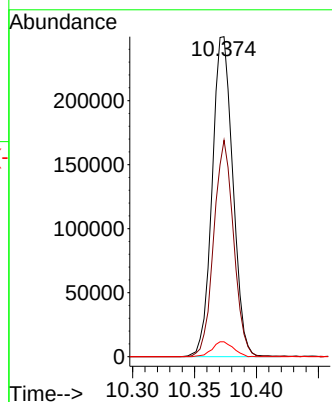
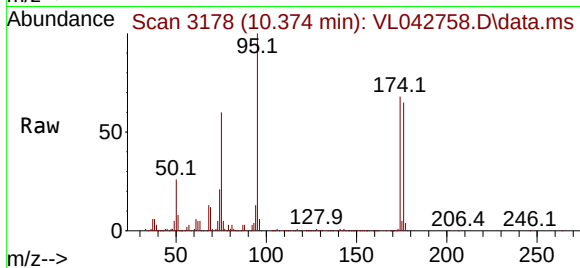




#68
1-Bromo-4-Fluorobenzene
Concen: 10.072 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.000 min
Lab File: VL042758.D
Acq: 24 Jul 2025 10:12

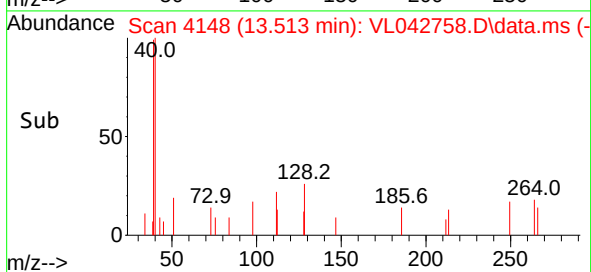
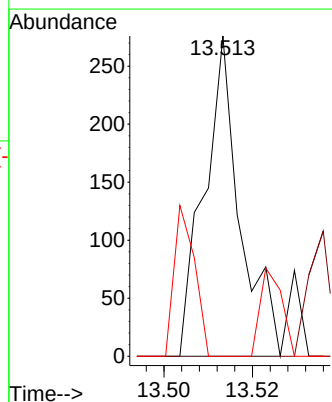
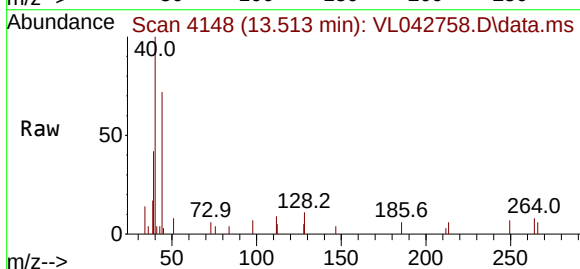
Instrument :
MSVOA_L
ClientSampleId :
VL0724ABL01

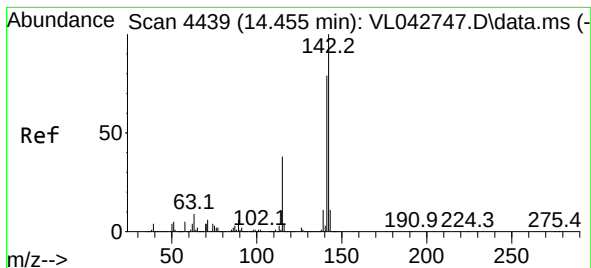
Tgt Ion: 95 Resp: 290722
Ion Ratio Lower Upper
95 100
174 64.9 53.8 80.6
175 4.8 4.0 6.0



#79
Naphthalene
Concen: 0.438 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. 0.000 min
Lab File: VL042758.D
Acq: 24 Jul 2025 10:12

Tgt Ion: 128 Resp: 155
Ion Ratio Lower Upper
128 100
127 32.2 10.5 15.7#
129 0.0 8.6 13.0#





#80

Naphthalene, 2-methyl-

Concen: 1.132 ppbv

RT: 14.488 min Scan# 4449

Delta R.T. 0.032 min

Lab File: VL042758.D

Acq: 24 Jul 2025 10:12

Instrument :

MSVOA_L

ClientSampleId :

VL0724ABL01

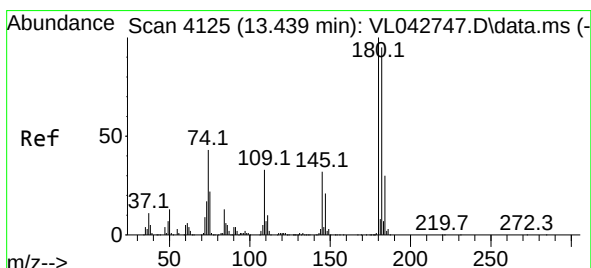
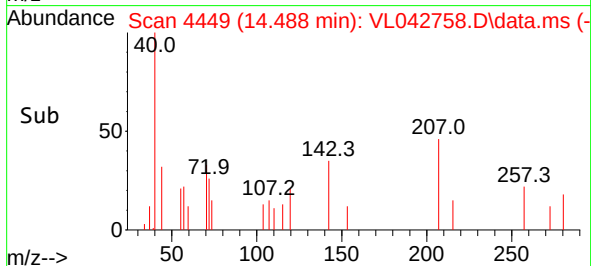
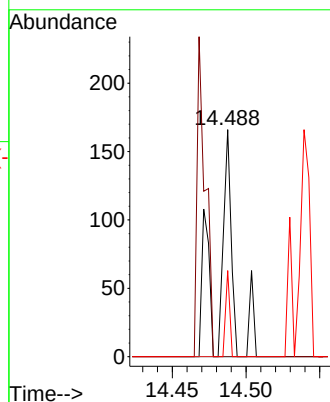
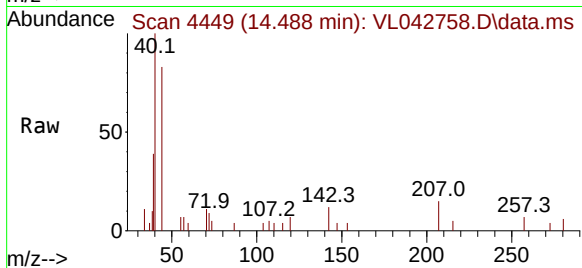
Tgt Ion:142 Resp: 110

Ion Ratio Lower Upper

142 100

141 84.5 65.8 98.8

115 80.9 31.2 46.8#



#81

1,2,4-Trichlorobenzene

Concen: 0.439 ppbv

RT: 13.442 min Scan# 4126

Delta R.T. 0.003 min

Lab File: VL042758.D

Acq: 24 Jul 2025 10:12

Tgt Ion:180 Resp: 132

Ion Ratio Lower Upper

180 100

182 63.6 76.2 114.2#

184 0.0 24.8 37.2#

