

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
 Data File : VL042732.D
 Acq On : 22 Jul 2025 15:41
 Operator : SY/MD
 Sample : VL0722ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0722ABL01

Quant Time: Jul 23 03:02:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Jul 23 02:51:39 2025
 Response via : Initial Calibration

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

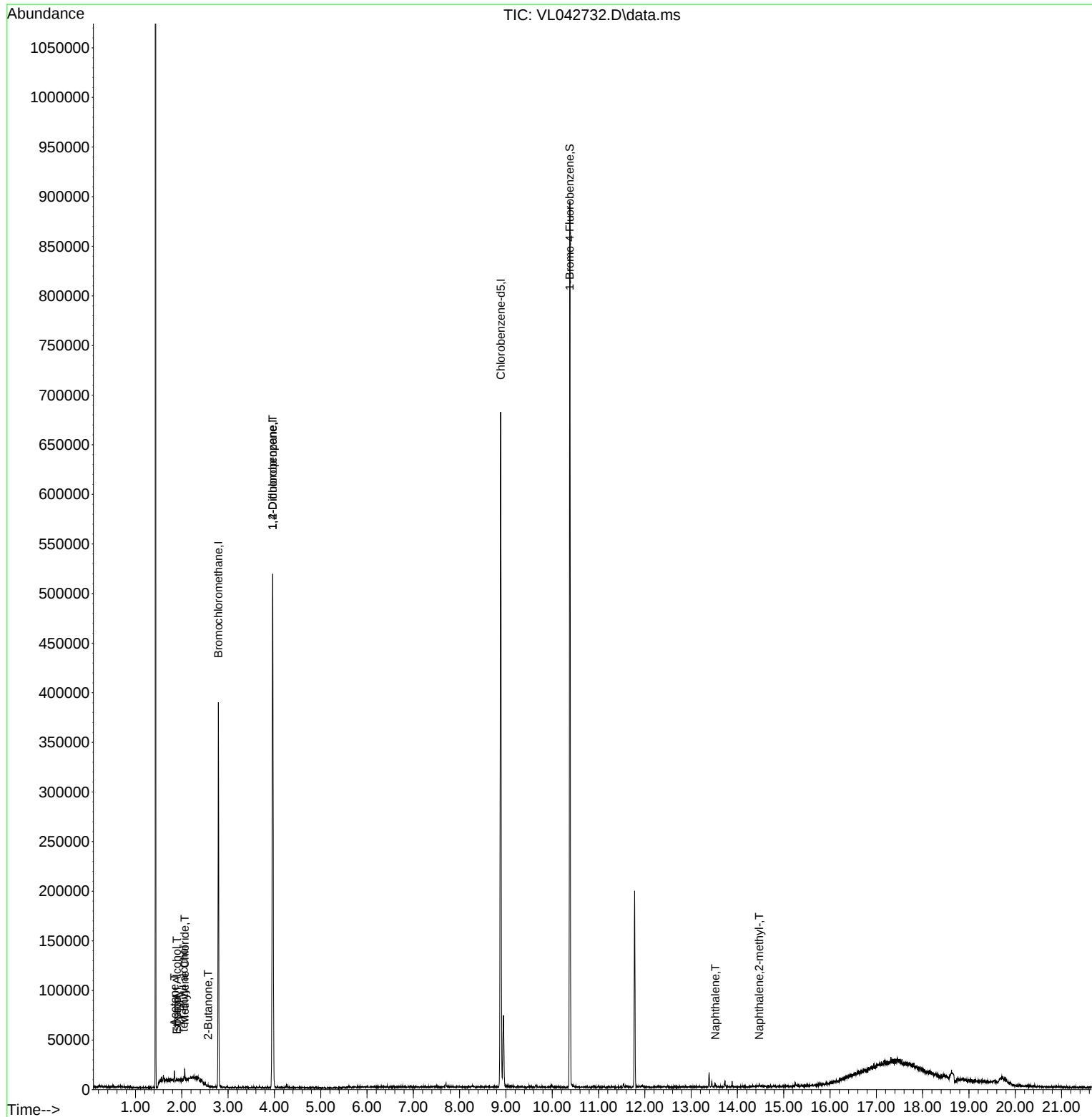
Internal Standards						
1) Bromochloromethane	2.790	49	99924	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	300308	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	270398	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	221143	10.119	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.200%
Target Compounds						
					Qvalue	
13) Ethanol	1.890	45	458	0.435	ppbv #	35
15) Acetone	1.838	43	4290	0.256	ppbv #	82
17) tert-Butyl alcohol	2.046	59	1243	0.078	ppbv #	60
19) Isopropyl Alcohol	1.890	45	458	0.052	ppbv #	67
20) Methylene Chloride	2.062	84	1789	0.340	ppbv #	70
34) 2-Butanone	2.567	43	1268	0.061	ppbv	95
39) 1,2-Dichloropropane	3.962	63	78922	7.597	ppbv #	21
79) Naphthalene	13.523	128	1096	0.037	ppbv #	82
80) Naphthalene,2-methyl-	14.471	142	817	0.084	ppbv #	56

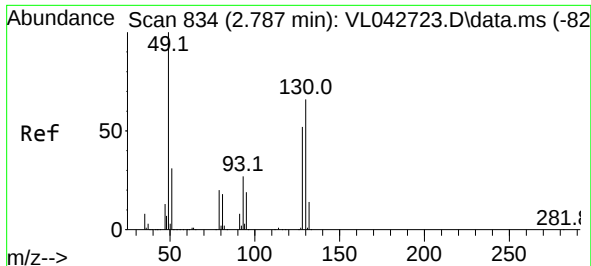
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
Data File : VL042732.D
Acq On : 22 Jul 2025 15:41
Operator : SY/MD
Sample : VL07222ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL07222ABL01

Quant Time: Jul 23 03:02:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Jul 23 02:51:39 2025
Response via : Initial Calibration

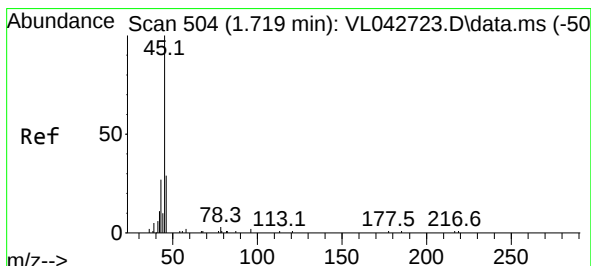
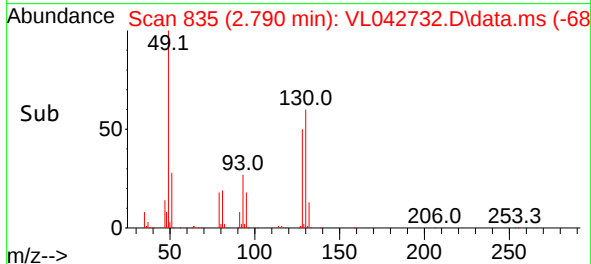
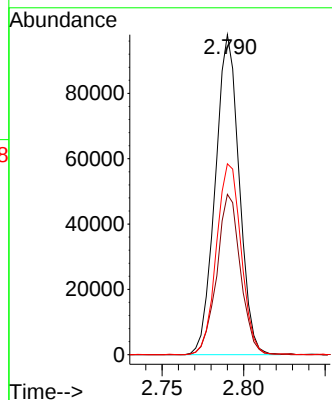
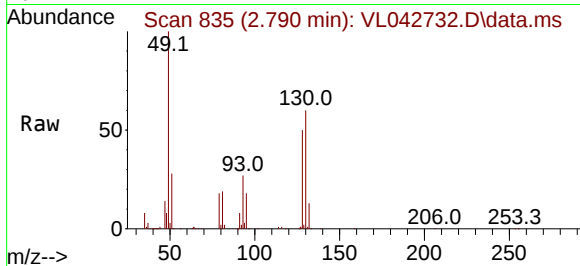




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042732.D
Acq: 22 Jul 2025 15:41

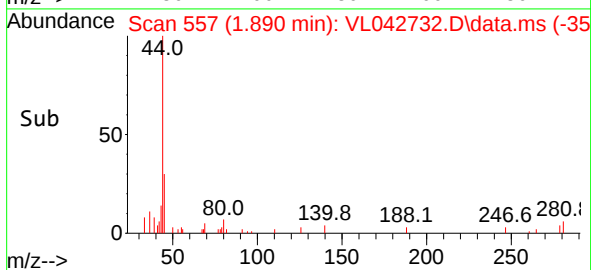
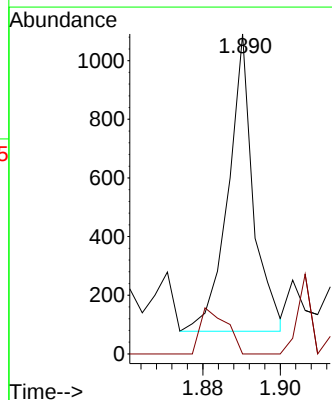
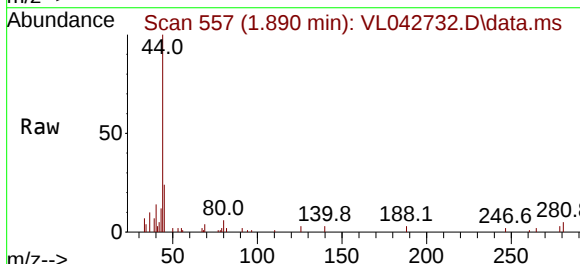
Instrument :
MSVOA_L
ClientSampleId :
VL0722ABL01

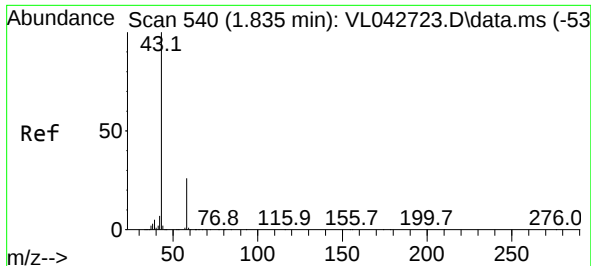
Tgt Ion: 49 Resp: 99924
Ion Ratio Lower Upper
49 100
128 49.6 24.5 73.5
130 61.8 31.7 95.1



#13
Ethanol
Concen: 0.435 ppbv
RT: 1.890 min Scan# 557
Delta R.T. 0.171 min
Lab File: VL042732.D
Acq: 22 Jul 2025 15:41

Tgt Ion: 45 Resp: 458
Ion Ratio Lower Upper
45 100
46 0.0 16.3 65.1#

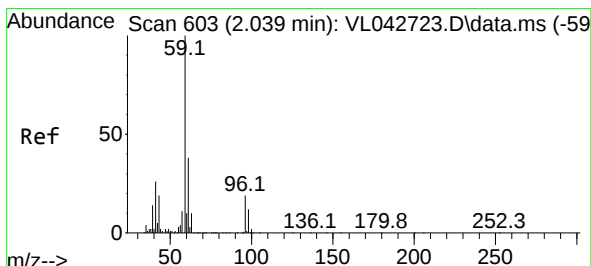
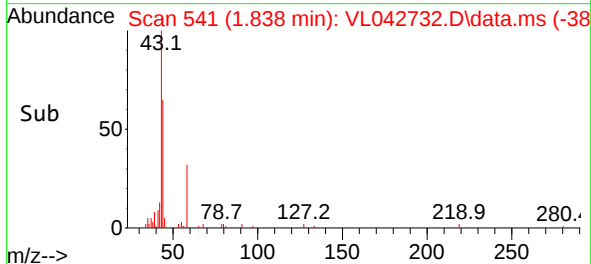
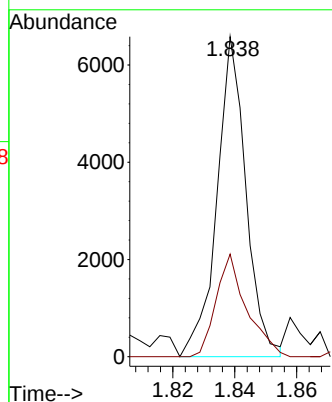
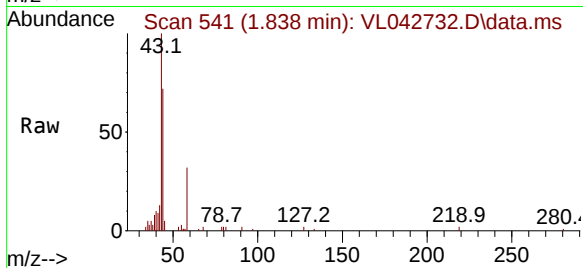




#15
Acetone
Concen: 0.256 ppbv
RT: 1.838 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042732.D
Acq: 22 Jul 2025 15:41

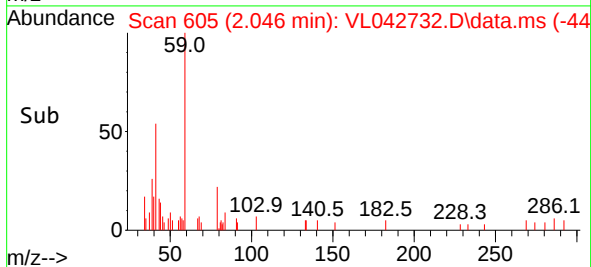
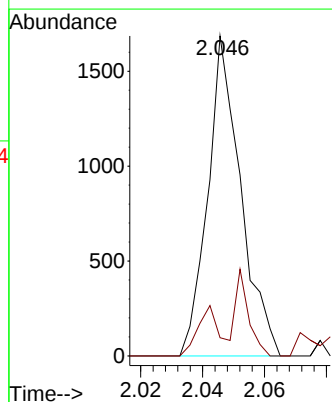
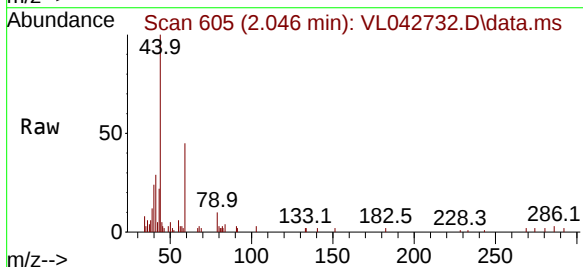
Instrument :
MSVOA_L
ClientSampleId :
VL0722ABL01

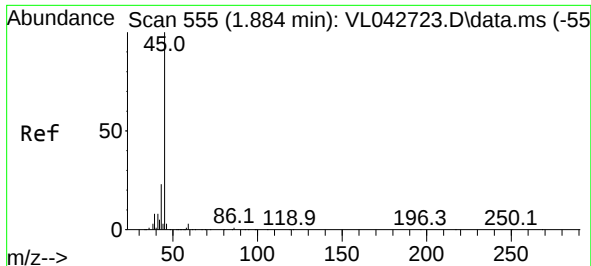
Tgt Ion: 43 Resp: 4290
Ion Ratio Lower Upper
43 100
58 34.6 20.5 30.7#



#17
tert-Butyl alcohol
Concen: 0.078 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.006 min
Lab File: VL042732.D
Acq: 22 Jul 2025 15:41

Tgt Ion: 59 Resp: 1243
Ion Ratio Lower Upper
59 100
57 26.7 9.1 13.7#

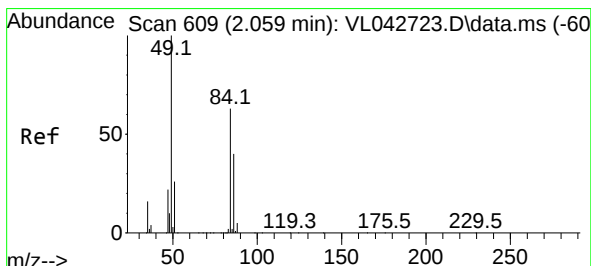
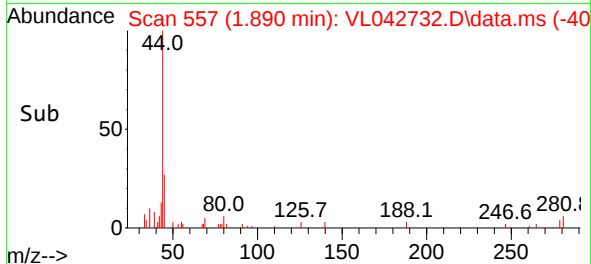
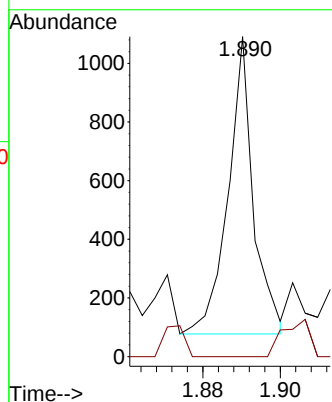
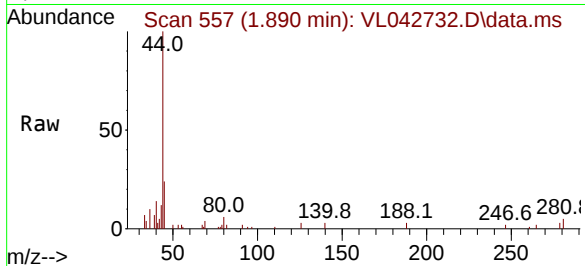




#19
Isopropyl Alcohol
Concen: 0.052 ppbv
RT: 1.890 min Scan# 51
Delta R.T. 0.006 min
Lab File: VL042732.D
Acq: 22 Jul 2025 15:41

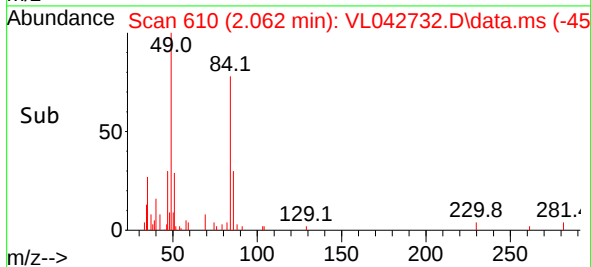
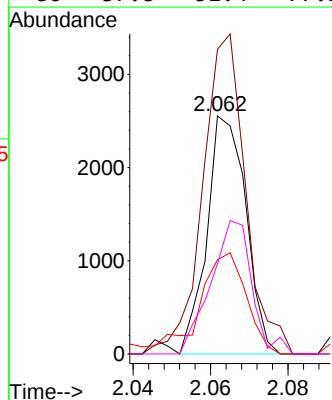
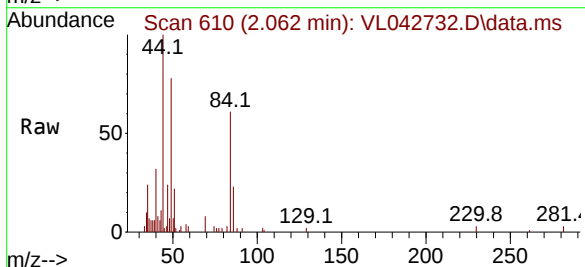
Instrument :
MSVOA_1
ClientSampleId :
VL0722ABL01

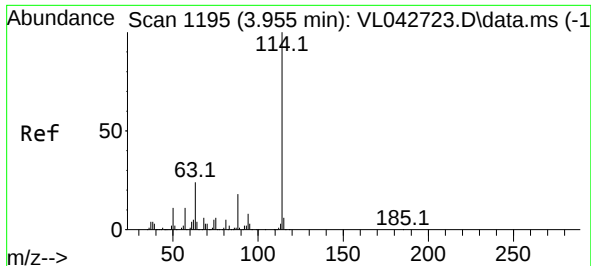
Tgt Ion: 45 Resp: 458
Ion Ratio Lower Upper
45 100
58 18.1 30.6 46.0#



#20
Methylene Chloride
Concen: 0.340 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042732.D
Acq: 22 Jul 2025 15:41

Tgt Ion: 84 Resp: 1789
Ion Ratio Lower Upper
84 100
49 114.8 128.2 192.4#
51 39.5 34.5 51.7
86 37.8 51.4 77.2#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. 0.006 min

Lab File: VL042732.D

Acq: 22 Jul 2025 15:41

Instrument :

MSVOA_L

ClientSampleId :

VL0722ABL01

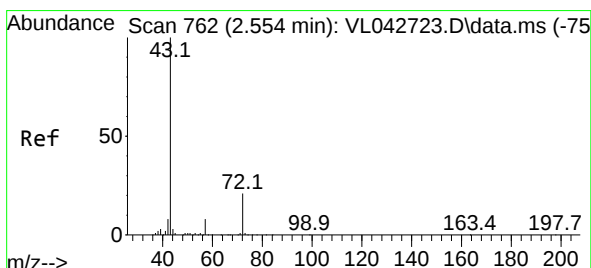
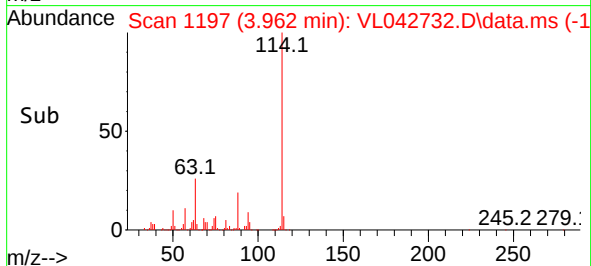
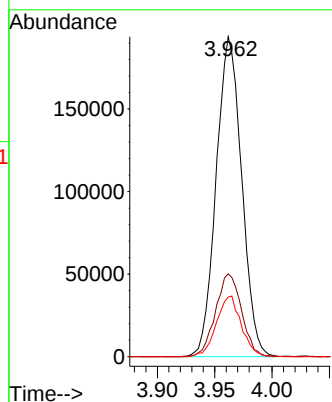
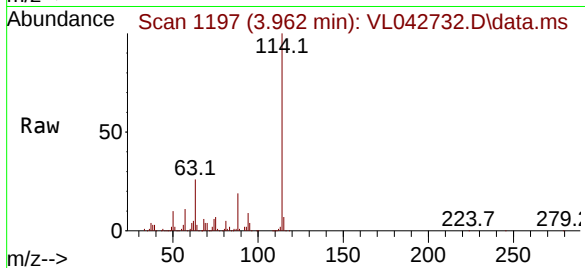
Tgt Ion:114 Resp: 300308

Ion Ratio Lower Upper

114 100

63 26.4 20.4 30.6

88 18.5 14.5 21.7



#34

2-Butanone

Concen: 0.061 ppbv

RT: 2.567 min Scan# 766

Delta R.T. 0.013 min

Lab File: VL042732.D

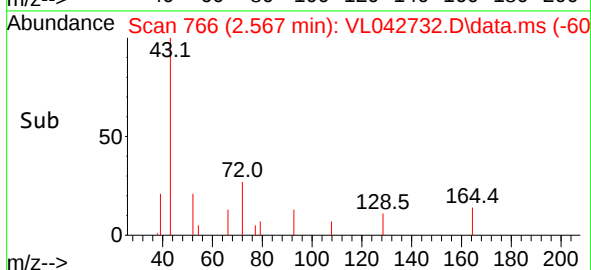
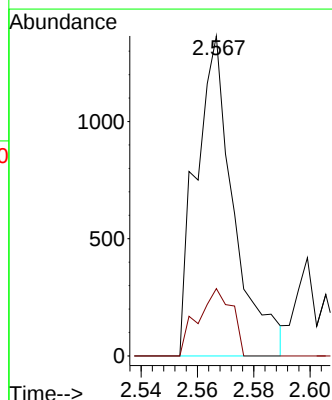
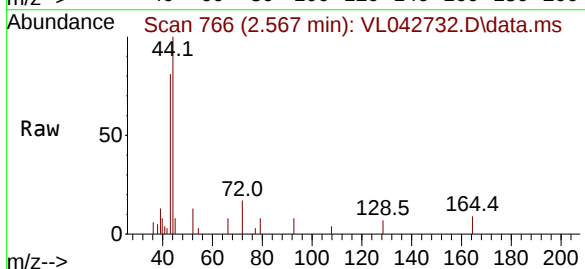
Acq: 22 Jul 2025 15:41

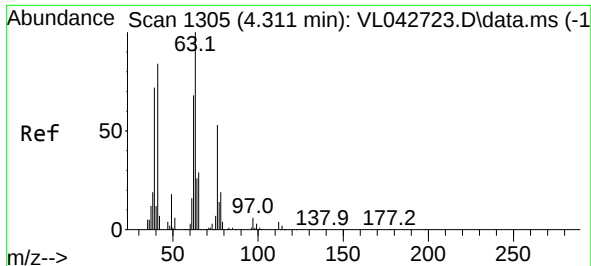
Tgt Ion: 43 Resp: 1268

Ion Ratio Lower Upper

43 100

72 19.1 17.0 25.6





#39

1,2-Dichloropropane

Concen: 7.597 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.350 min

Lab File: VL042732.D

Acq: 22 Jul 2025 15:41

Instrument :

MSVOA_L

ClientSampleId :

VL0722ABL01

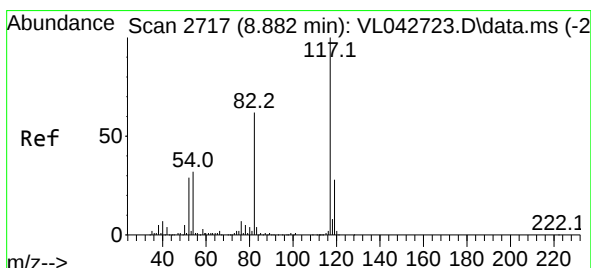
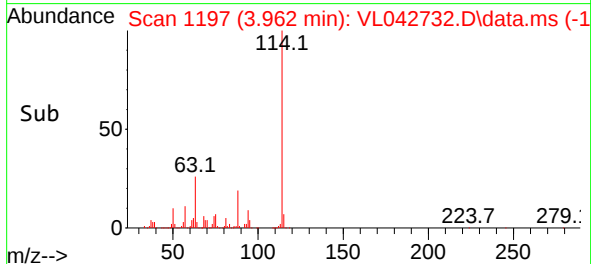
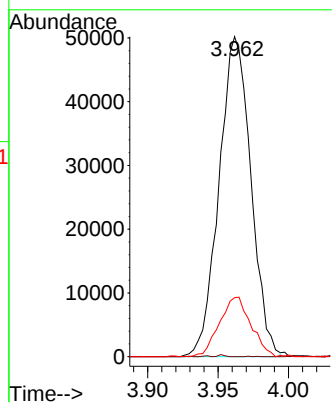
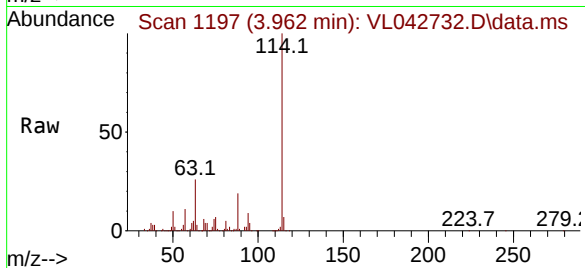
Tgt Ion: 63 Resp: 78922

Ion Ratio Lower Upper

63 100

41 0.0 67.7 101.5#

62 18.5 54.1 81.1#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.888 min Scan# 2719

Delta R.T. 0.006 min

Lab File: VL042732.D

Acq: 22 Jul 2025 15:41

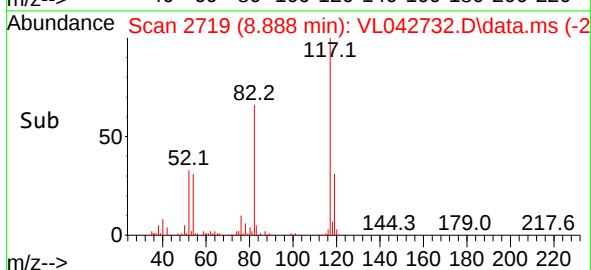
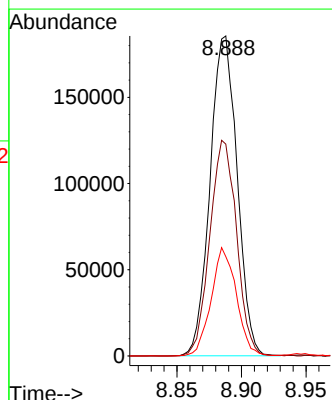
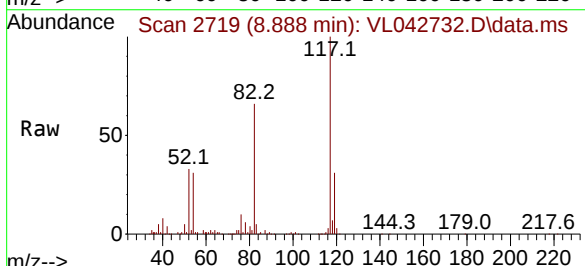
Tgt Ion: 117 Resp: 270398

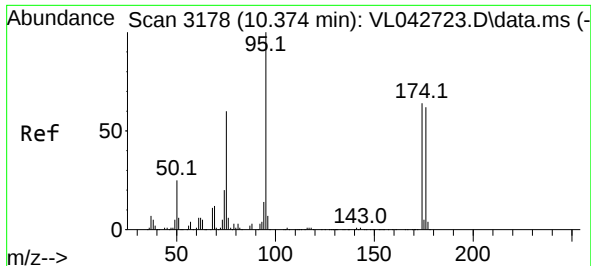
Ion Ratio Lower Upper

117 100

82 66.9 54.6 81.8

119 31.6 25.3 37.9

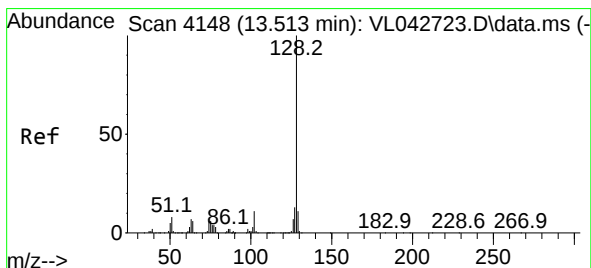
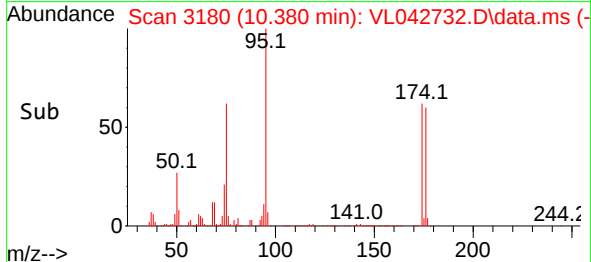
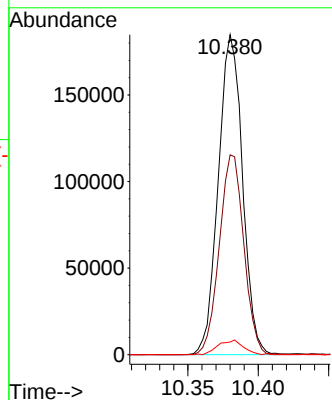
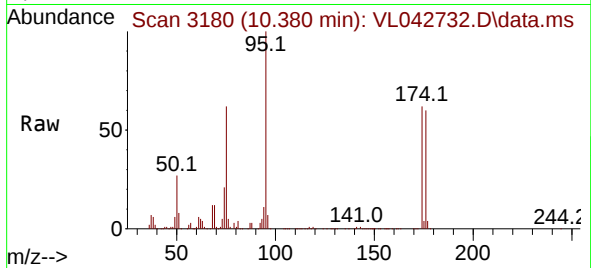




#68
1-Bromo-4-Fluorobenzene
Concen: 10.119 ppbv
RT: 10.380 min Scan# 3178
Delta R.T. 0.006 min
Lab File: VL042732.D
Acq: 22 Jul 2025 15:41

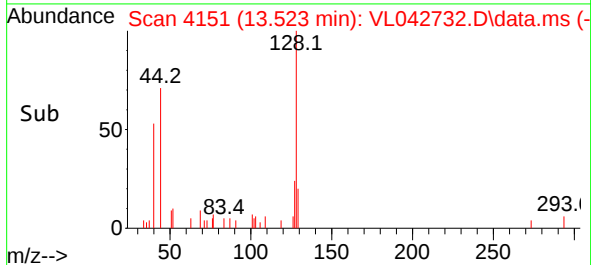
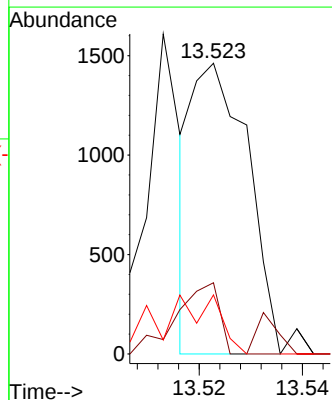
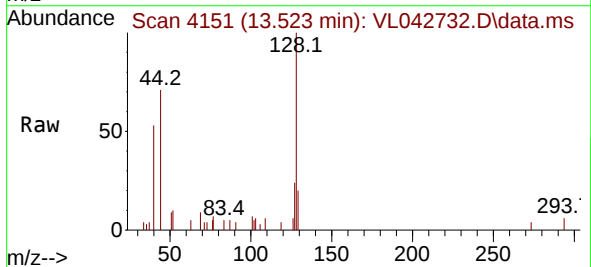
Instrument :
MSVOA_1
ClientSampleId :
VL0722ABL01

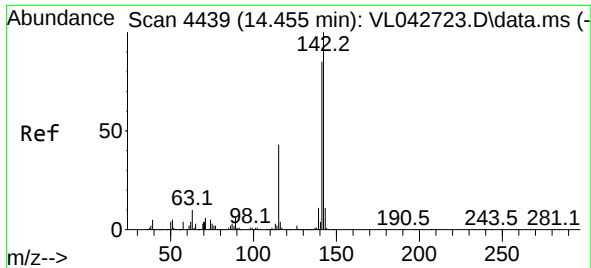
Tgt Ion: 95 Resp: 221143
Ion Ratio Lower Upper
95 100
174 63.5 51.4 77.2
175 4.8 4.2 6.4



#79
Naphthalene
Concen: 0.037 ppbv
RT: 13.523 min Scan# 4151
Delta R.T. 0.010 min
Lab File: VL042732.D
Acq: 22 Jul 2025 15:41

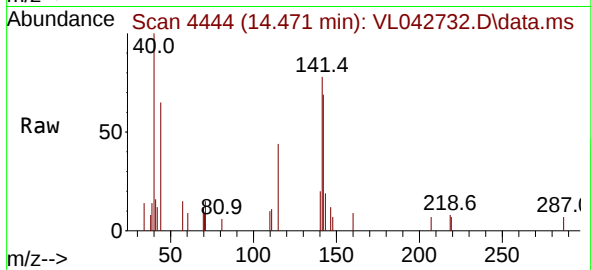
Tgt Ion: 128 Resp: 1096
Ion Ratio Lower Upper
128 100
127 17.9 10.3 15.5#
129 20.3 8.6 13.0#





#80
 Naphthalene, 2-methyl-
 Concen: 0.084 ppbv
 RT: 14.471 min Scan# 44
 Delta R.T. 0.016 min
 Lab File: VL042732.D
 Acq: 22 Jul 2025 15:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0722ABL01



Tgt Ion:	142	Resp:	817
Ion	Ratio	Lower	Upper
142	100		
141	121.7	65.6	98.4#
115	66.8	31.7	47.5#

