

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
 Data File : VL042984.D
 Acq On : 23 Sep 2025 10:01
 Operator : SY/MD
 Sample : VL0923ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0923ABL01

Quant Time: Sep 24 02:05:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	140749	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	395903	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.888	117	343517	10.000	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	271935	10.605	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.000%

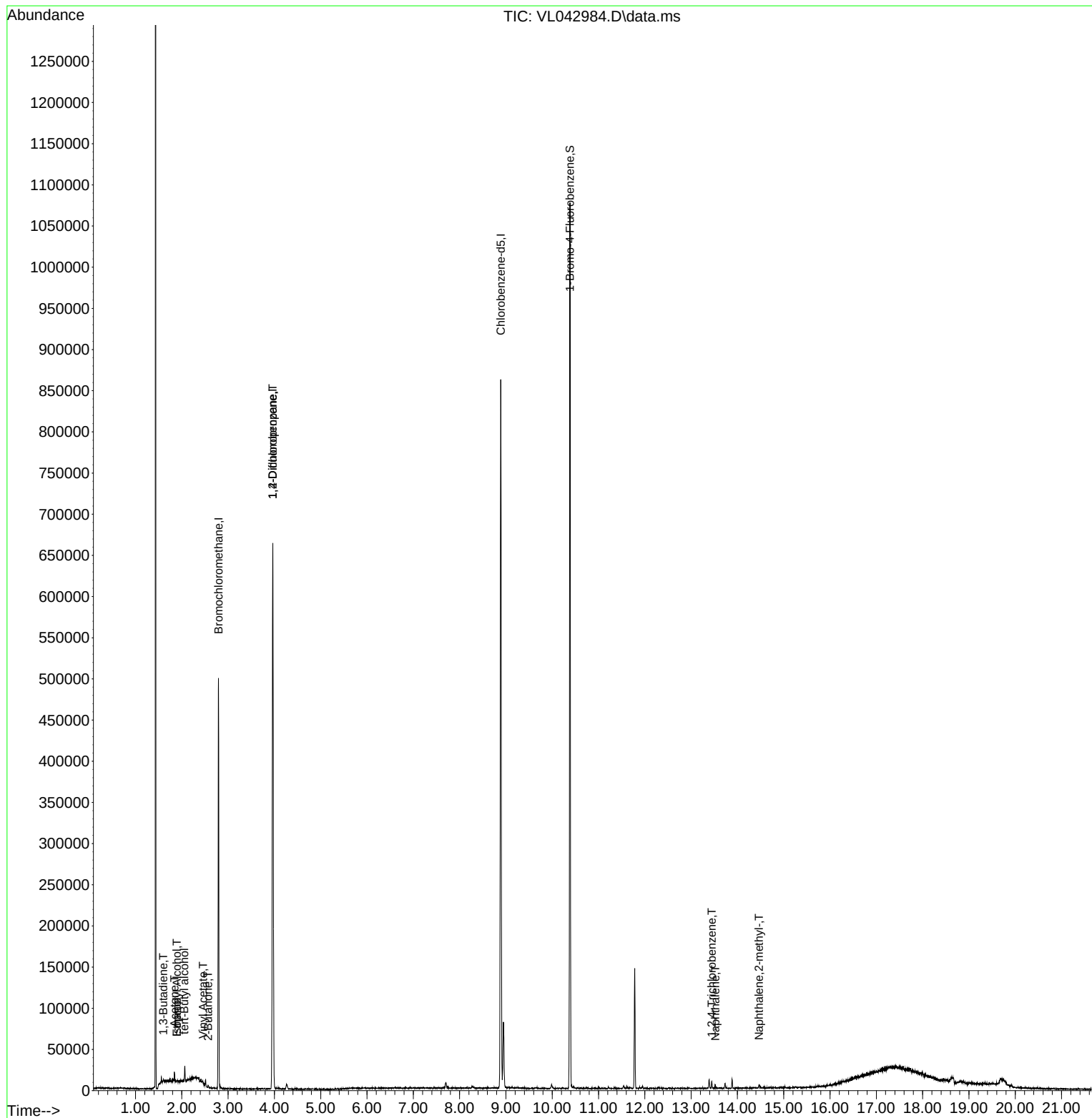
Target Compounds					Qvalue	
13) Ethanol	1.894	45	485	0.487	ppbv #	35
15) Acetone	1.839	43	5497	0.300	ppbv #	86
16) 1,3-Butadiene	1.602	39	484	0.056	ppbv #	42
17) tert-Butyl alcohol	2.052	59	878	0.044	ppbv #	36
19) Isopropyl Alcohol	1.894	45	485	0.044	ppbv #	1
20) Methylene Chloride	2.065	84	2783	Below Cal		93
23) Vinyl Acetate	2.460	43	1150	0.044	ppbv #	73
34) 2-Butanone	2.567	43	1923	0.069	ppbv	93
39) 1,2-Dichloropropane	3.965	63	103258	7.608	ppbv #	23
79) Naphthalene	13.523	128	2099	0.048	ppbv #	91
80) Naphthalene,2-methyl-	14.465	142	1782	0.131	ppbv	94
81) 1,2,4-Trichlorobenzene	13.445	180	1315	0.056	ppbv	96

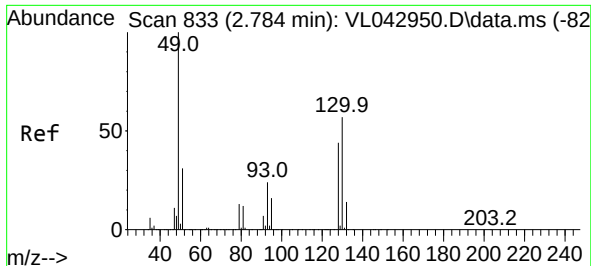
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
Data File : VL042984.D
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Operator : SY/MD
Sample : VL0923ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0923ABL01

Quant Time: Sep 24 02:05:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

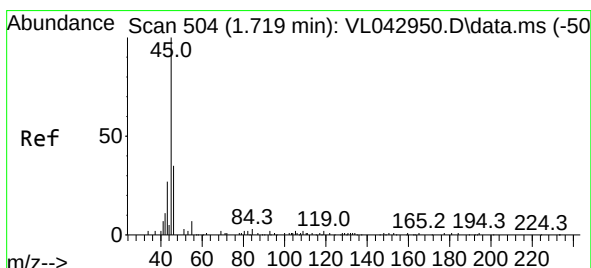
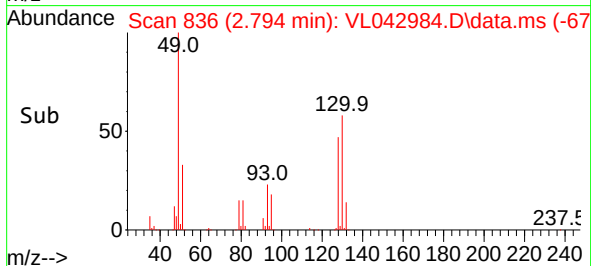
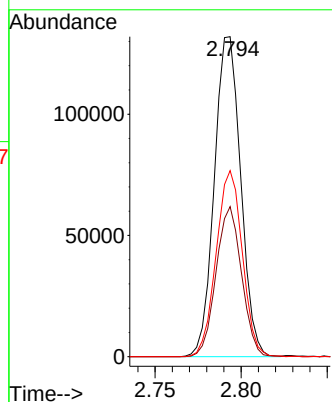
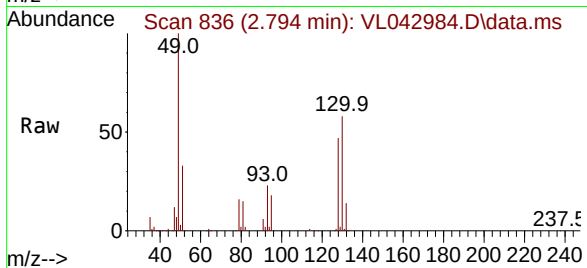




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 81
Delta R.T. 0.010 min
Lab File: VL042984.D
Acq: 23 Sep 2025 10:01

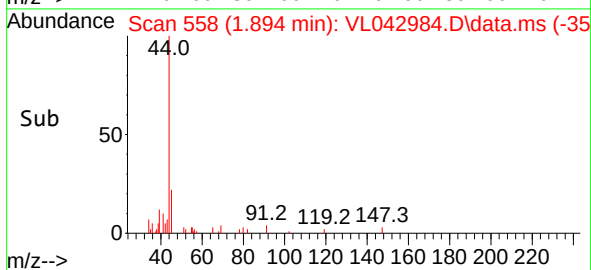
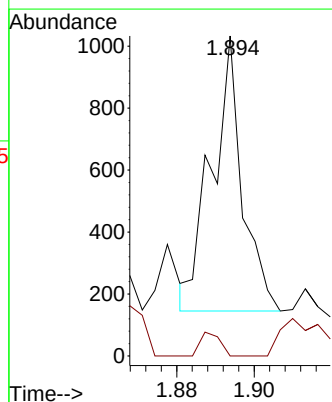
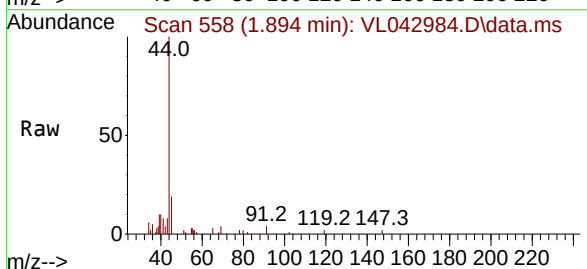
Instrument :
MSVOA_L
ClientSampleId :
VL0923ABL01

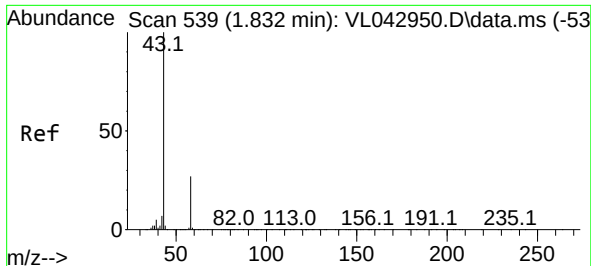
Tgt Ion: 49 Resp: 140749
Ion Ratio Lower Upper
49 100
128 45.4 22.9 68.8
130 57.7 29.1 87.3



#13
Ethanol
Concen: 0.487 ppbv
RT: 1.894 min Scan# 558
Delta R.T. 0.175 min
Lab File: VL042984.D
Acq: 23 Sep 2025 10:01

Tgt Ion: 45 Resp: 485
Ion Ratio Lower Upper
45 100
46 0.0 16.2 64.6#

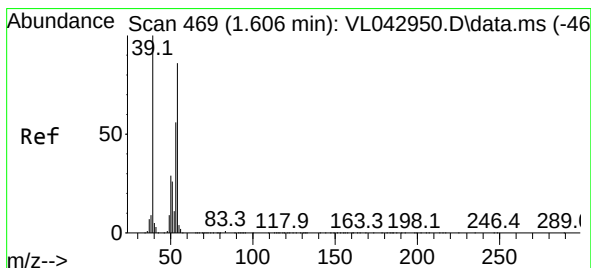
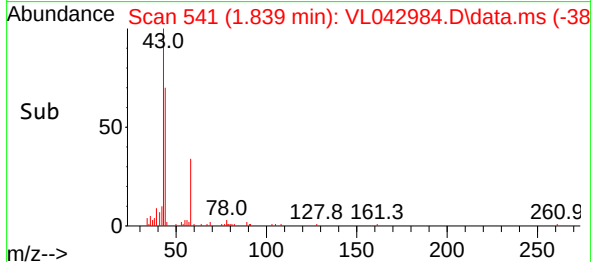
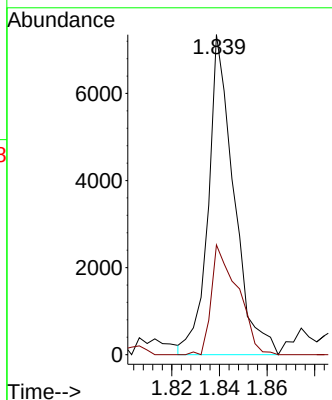
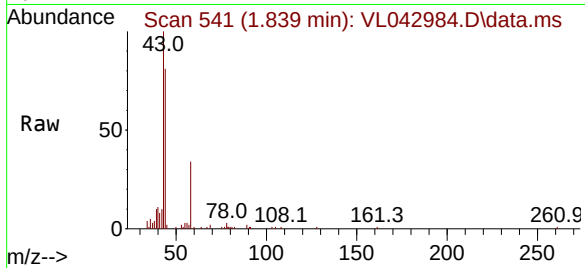




#15
Acetone
Concen: 0.300 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL042984.D
Acq: 23 Sep 2025 10:01

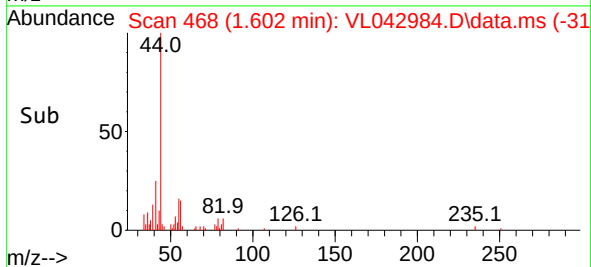
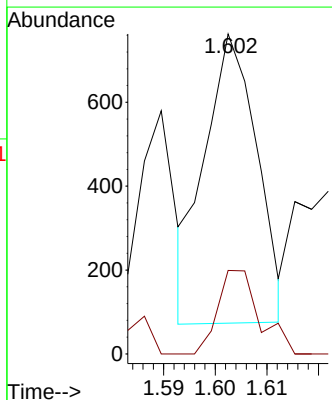
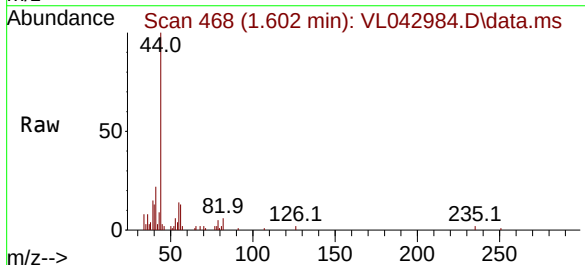
Instrument :
MSVOA_1
ClientSampleId :
VL0923ABL01

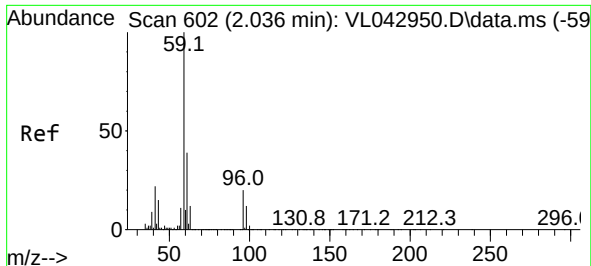
Tgt Ion: 43 Resp: 5497
Ion Ratio Lower Upper
43 100
58 35.2 22.3 33.5#



#16
1,3-Butadiene
Concen: 0.056 ppbv
RT: 1.602 min Scan# 468
Delta R.T. -0.003 min
Lab File: VL042984.D
Acq: 23 Sep 2025 10:01

Tgt Ion: 39 Resp: 484
Ion Ratio Lower Upper
39 100
54 26.0 60.8 91.2#





#17

tert-Butyl alcohol

Concen: 0.044 ppbv

RT: 2.052 min Scan# 602

Delta R.T. 0.016 min

Lab File: VL042984.D

Acq: 23 Sep 2025 10:01

Instrument :

MSVOA_1

ClientSampleId :

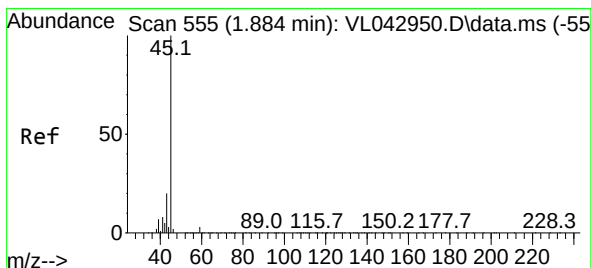
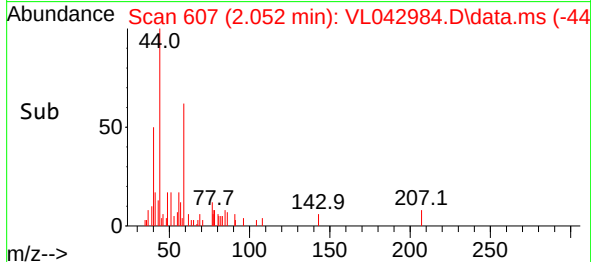
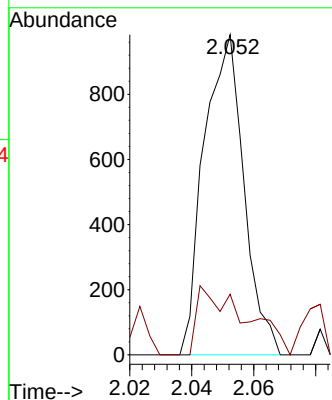
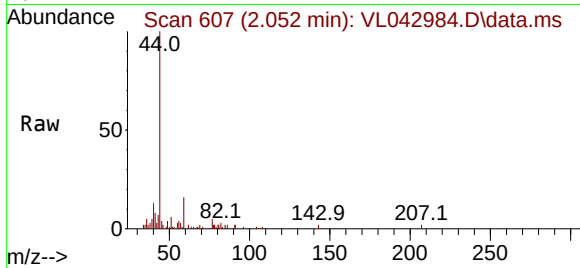
VL0923ABL01

Tgt Ion: 59 Resp: 878

Ion Ratio Lower Upper

59 100

57 34.6 8.6 12.8#



#19

Isopropyl Alcohol

Concen: 0.044 ppbv

RT: 1.894 min Scan# 558

Delta R.T. 0.010 min

Lab File: VL042984.D

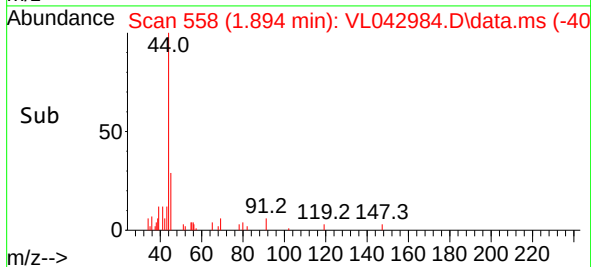
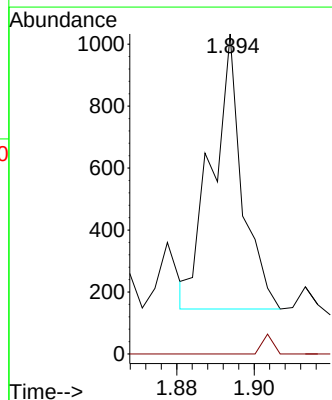
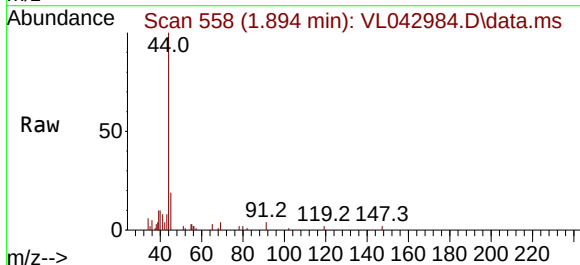
Acq: 23 Sep 2025 10:01

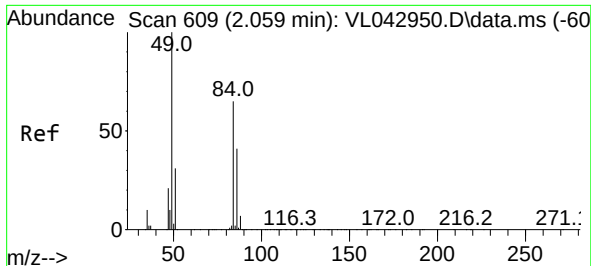
Tgt Ion: 45 Resp: 485

Ion Ratio Lower Upper

45 100

58 430.9 31.0 46.6#



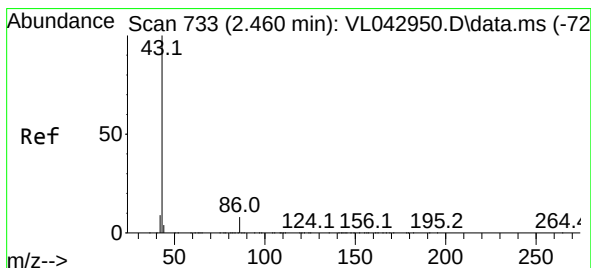
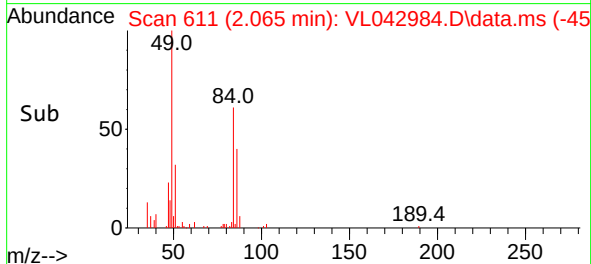
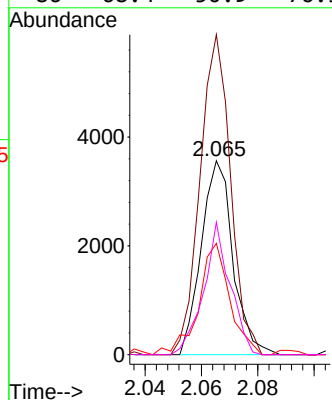
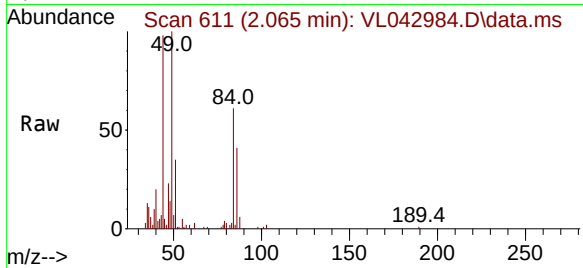


#20
Methylene Chloride
Concen: Below Cal
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042984.D
Acq: 23 Sep 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VL0923ABL01

Tgt Ion: 84 Resp: 2783

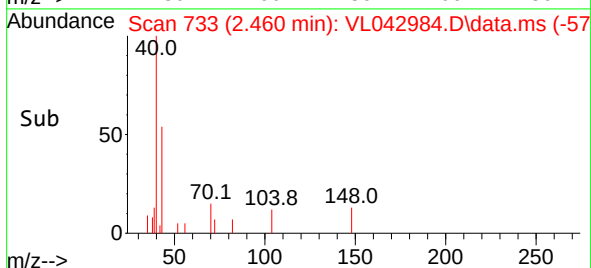
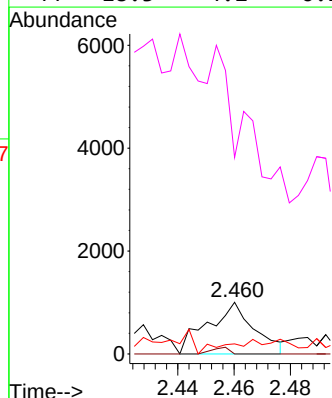
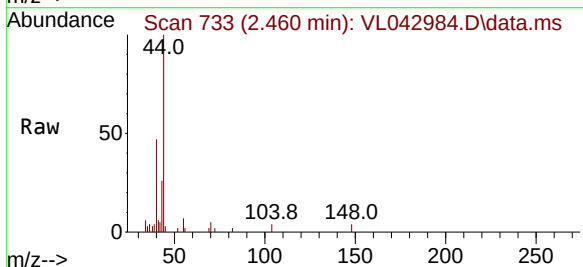
Ion	Ratio	Lower	Upper
84	100		
49	165.1	124.1	186.1
51	55.2	39.8	59.8
86	68.4	50.9	76.3

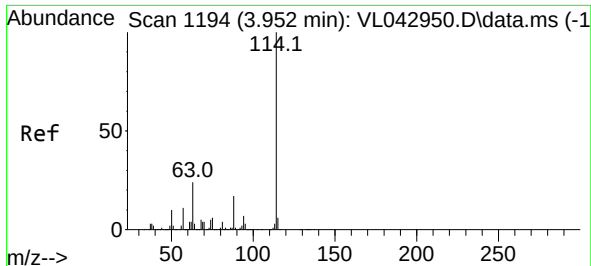


#23
Vinyl Acetate
Concen: 0.044 ppbv
RT: 2.460 min Scan# 733
Delta R.T. -0.000 min
Lab File: VL042984.D
Acq: 23 Sep 2025 10:01

Tgt Ion: 43 Resp: 1150

Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.2	9.2#
42	0.0	7.4	11.0#
44	18.3	4.2	6.2#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. 0.013 min

Lab File: VL042984.D

Acq: 23 Sep 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

VL0923ABL01

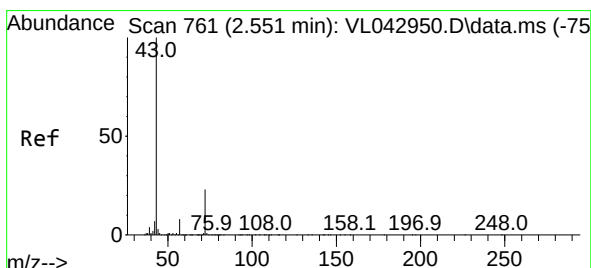
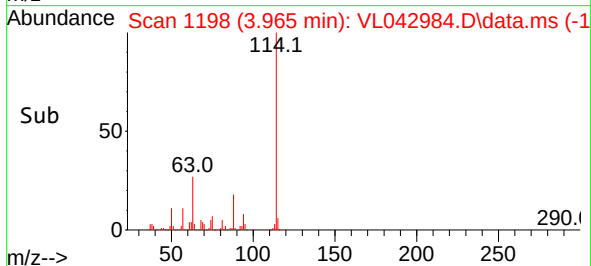
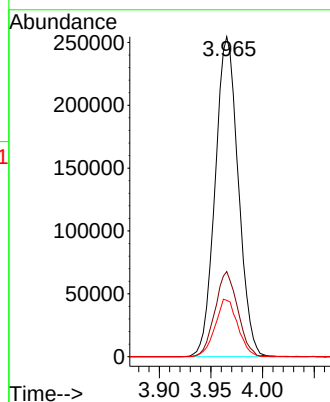
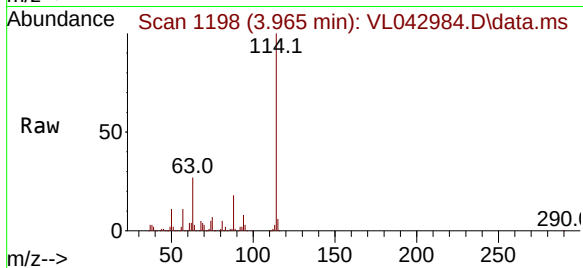
Tgt Ion:114 Resp: 395903

Ion Ratio Lower Upper

114 100

63 26.3 19.4 29.2

88 17.6 14.2 21.2



#34

2-Butanone

Concen: 0.069 ppbv

RT: 2.567 min Scan# 766

Delta R.T. 0.016 min

Lab File: VL042984.D

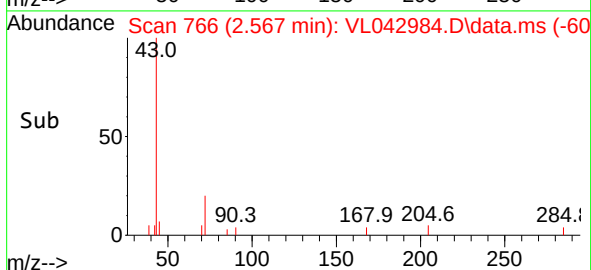
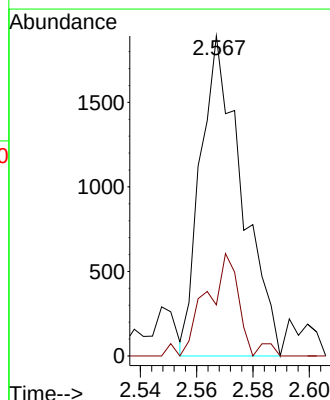
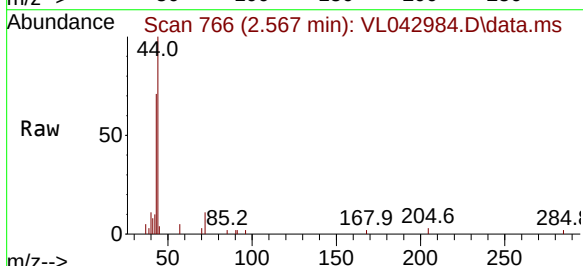
Acq: 23 Sep 2025 10:01

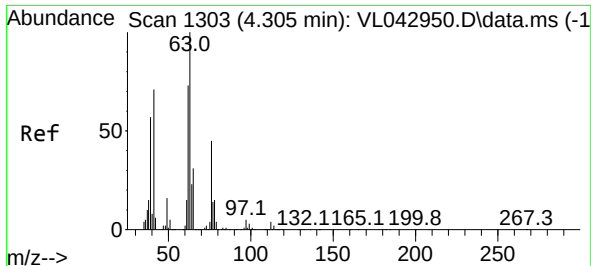
Tgt Ion: 43 Resp: 1923

Ion Ratio Lower Upper

43 100

72 25.5 17.7 26.5





#39

1,2-Dichloropropane

Concen: 7.608 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. -0.340 min

Lab File: VL042984.D

Acq: 23 Sep 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

VL0923ABL01

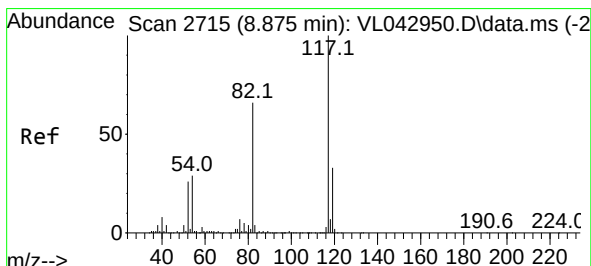
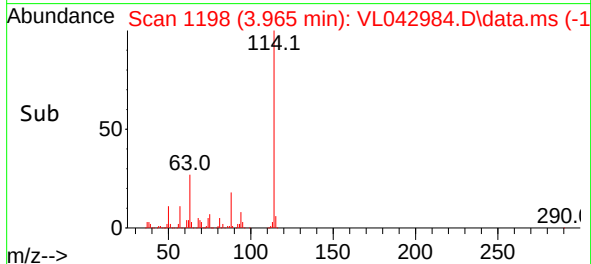
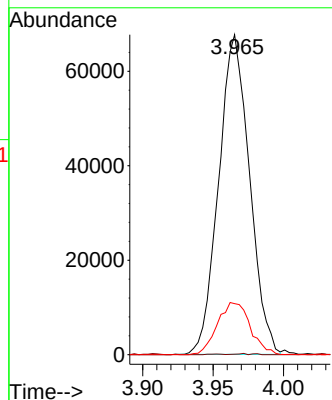
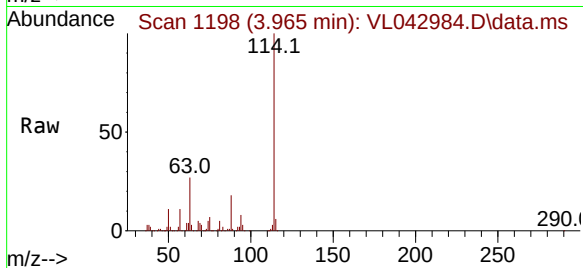
Tgt Ion: 63 Resp: 103258

Ion Ratio Lower Upper

63 100

41 0.2 57.5 86.3#

62 15.8 58.5 87.7#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.888 min Scan# 2719

Delta R.T. 0.013 min

Lab File: VL042984.D

Acq: 23 Sep 2025 10:01

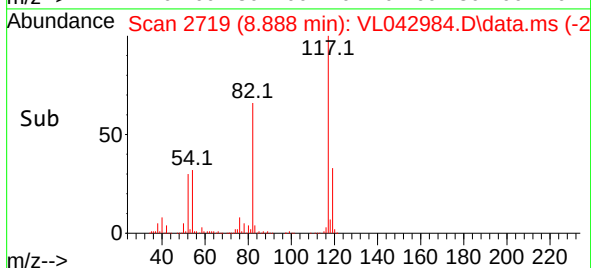
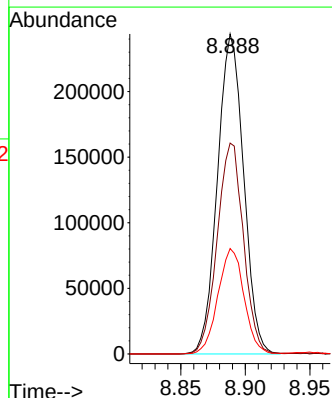
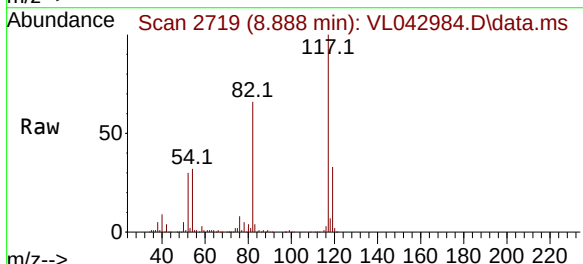
Tgt Ion: 117 Resp: 343517

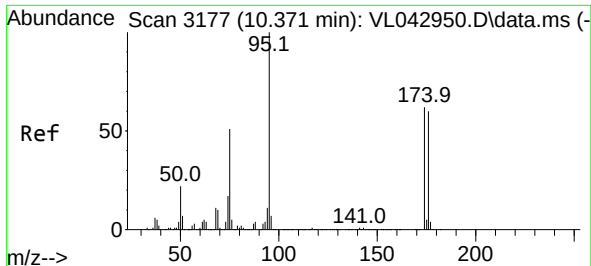
Ion Ratio Lower Upper

117 100

82 66.0 52.8 79.2

119 32.8 26.5 39.7

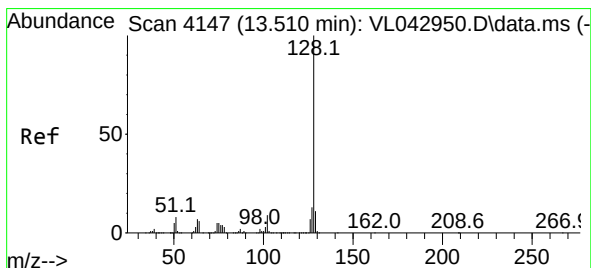
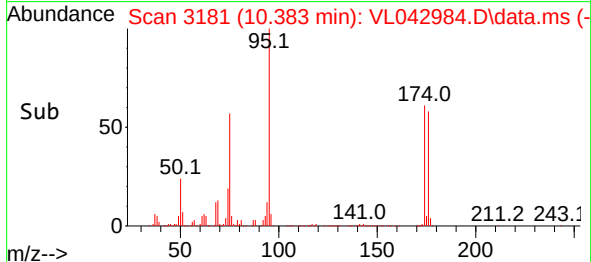
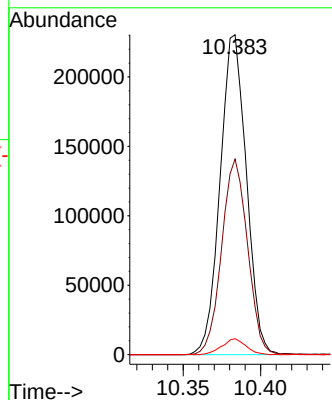
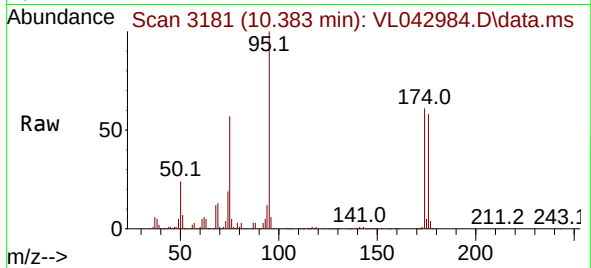




#68
1-Bromo-4-Fluorobenzene
Concen: 10.605 ppbv
RT: 10.383 min Scan# 3177
Delta R.T. 0.013 min
Lab File: VL042984.D
Acq: 23 Sep 2025 10:01

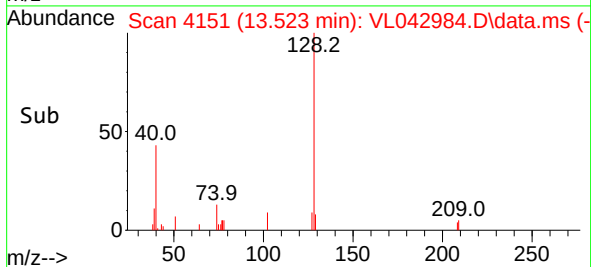
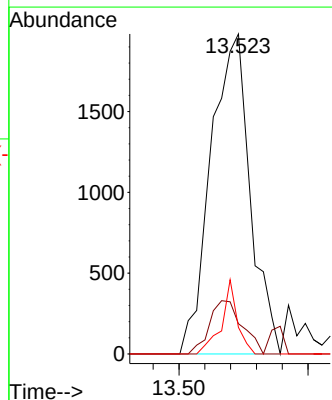
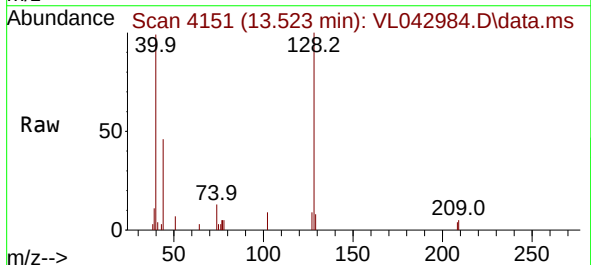
Instrument :
MSVOA_1
ClientSampleId :
VL0923ABL01

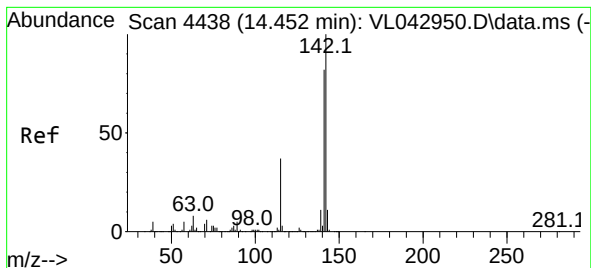
Tgt Ion: 95 Resp: 271935
Ion Ratio Lower Upper
95 100
174 60.4 51.4 77.2
175 4.6 4.0 6.0



#79
Naphthalene
Concen: 0.048 ppbv
RT: 13.523 min Scan# 4151
Delta R.T. 0.013 min
Lab File: VL042984.D
Acq: 23 Sep 2025 10:01

Tgt Ion: 128 Resp: 2099
Ion Ratio Lower Upper
128 100
127 9.4 10.6 15.8#
129 8.3 9.0 13.6#

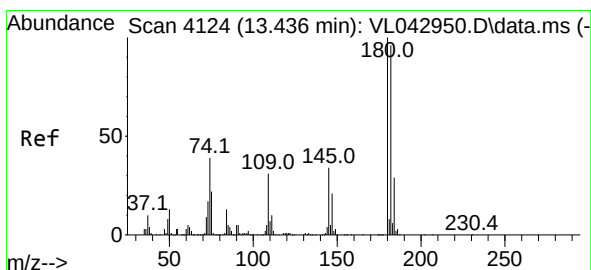
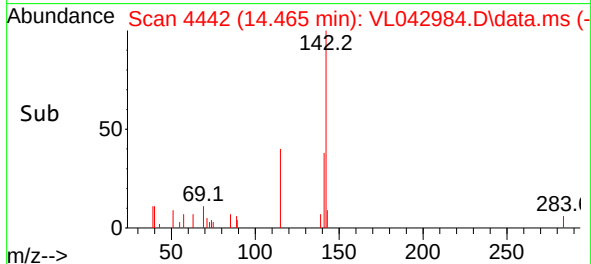
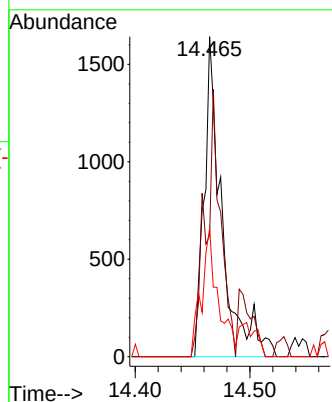
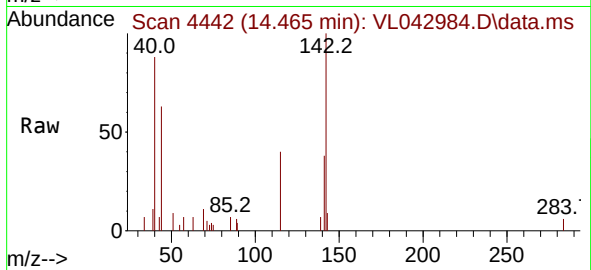




#80
Naphthalene, 2-methyl-
Concen: 0.131 ppbv
RT: 14.465 min Scan# 4442
Delta R.T. 0.013 min
Lab File: VL042984.D
Acq: 23 Sep 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VL0923ABL01

Tgt Ion:142 Resp: 1782
Ion Ratio Lower Upper
142 100
141 88.0 65.1 97.7
115 37.2 28.9 43.3



#81
1,2,4-Trichlorobenzene
Concen: 0.056 ppbv
RT: 13.445 min Scan# 4127
Delta R.T. 0.010 min
Lab File: VL042984.D
Acq: 23 Sep 2025 10:01

Tgt Ion:180 Resp: 1315
Ion Ratio Lower Upper
180 100
182 92.5 75.7 113.5
184 35.0 23.9 35.9

