

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042910.D
 Acq On : 08 Sep 2025 18:56
 Operator : SY/MD
 Sample : Q3052-01 40X
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Quant Time: Sep 09 00:59:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 09 00:52:26 2025
 Response via : Initial Calibration

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

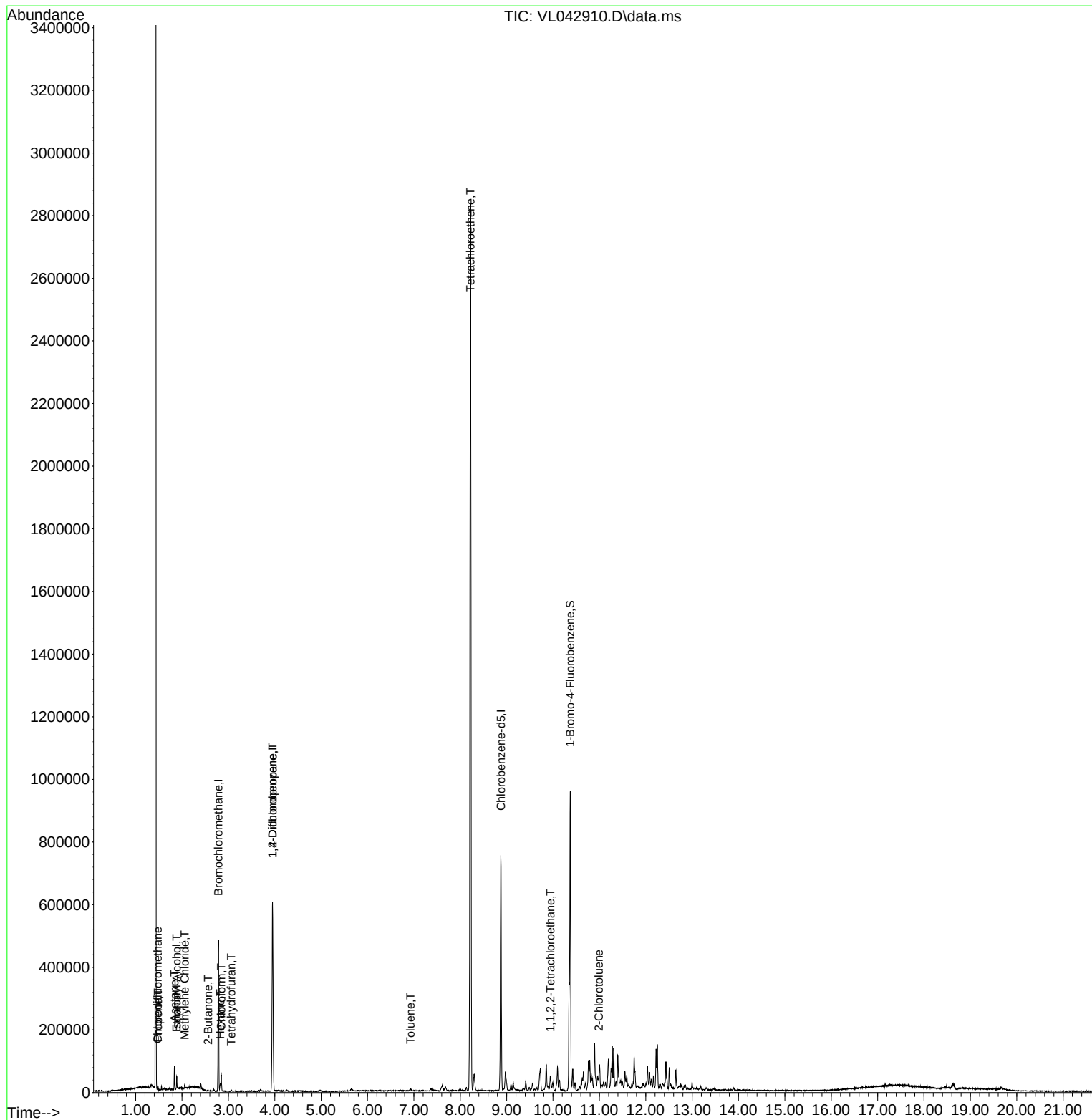
Internal Standards						
1) Bromochloromethane	2.784	49	133612	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	335875	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	297707	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	248461	11.128	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	111.300%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	1.476	51	1752	0.081	ppbv #	88
9) Propene	1.483	41	1644	0.176	ppbv	97
13) Ethanol	1.884	45	16926	19.803	ppbv #	32
15) Acetone	1.836	43	30874	1.747	ppbv	98
19) Isopropyl Alcohol	1.884	45	16926	1.603	ppbv #	86
20) Methylene Chloride	2.059	84	1610	0.217	ppbv	87
26) Hexane	2.823	57	4408	0.223	ppbv #	40
29) Chloroform	2.845	83	19564	0.694	ppbv	88
34) 2-Butanone	2.561	43	2836	0.125	ppbv #	86
39) 1,2-Dichloropropane	3.952	63	90262	7.684	ppbv #	26
41) Tetrahydrofuran	3.059	42	397	0.031	ppbv #	36
52) Tetrachloroethene	8.218	164	476578	40.959	ppbv	90
53) Toluene	6.930	91	1404	0.037	ppbv #	1
63) 1,1,2,2-Tetrachloroethane	9.947	83	956	0.042	ppbv #	25
71) 2-Chlorotoluene	10.986	91	1702	0.036	ppbv	68

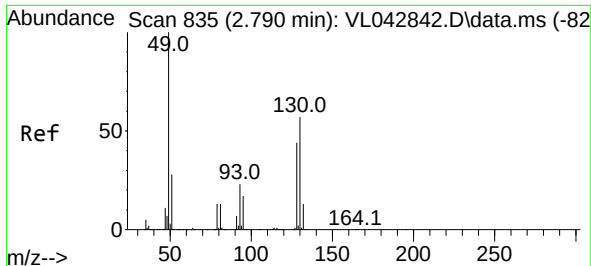
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 09 00:59:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

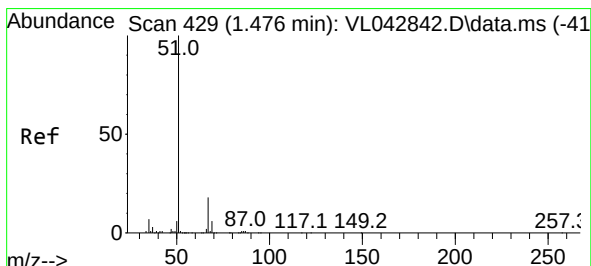
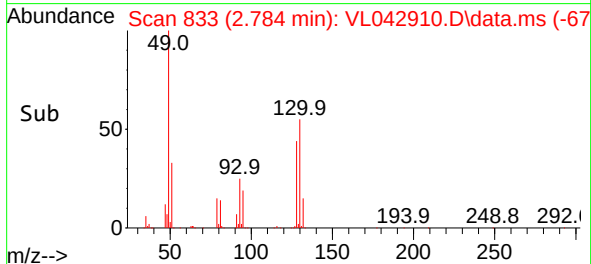
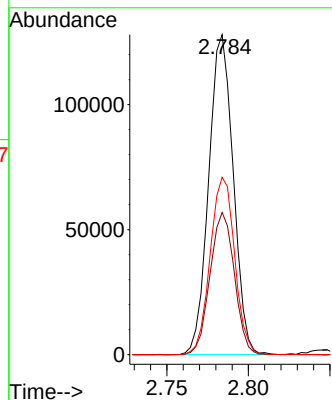
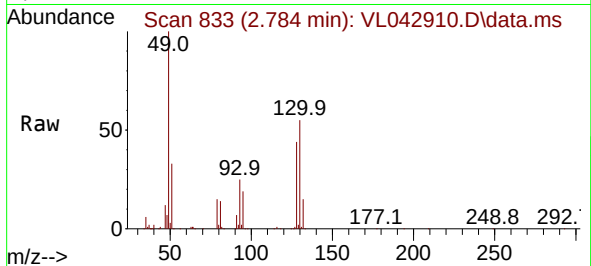




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 835
Delta R.T. 0.007 min
Lab File: VL042910.D
Acq: 08 Sep 2025 18:56

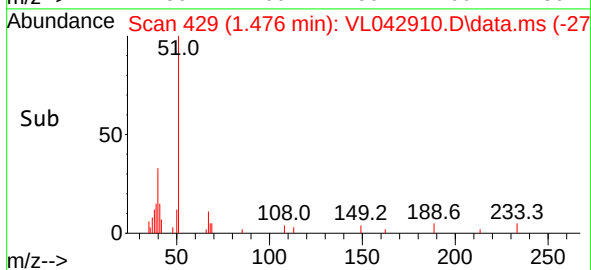
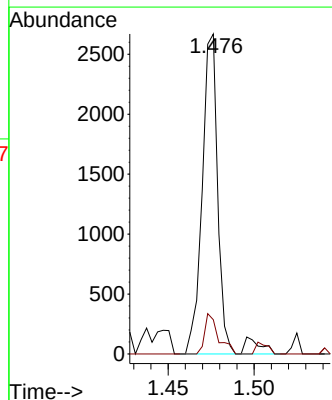
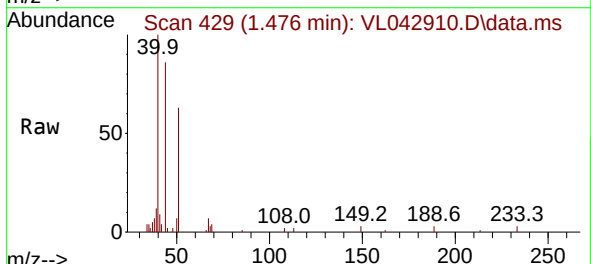
Instrument :
MSVOA_L
ClientSampleId :
SV1

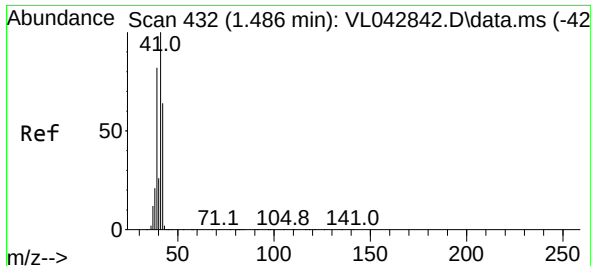
Tgt Ion: 49 Resp: 133612
Ion Ratio Lower Upper
49 100
128 44.2 23.7 71.1
130 55.6 30.6 91.6



#3
Chlorodifluoromethane
Concen: 0.081 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.006 min
Lab File: VL042910.D
Acq: 08 Sep 2025 18:56

Tgt Ion: 51 Resp: 1752
Ion Ratio Lower Upper
51 100
67 13.2 14.9 22.3#





#9

Propene

Concen: 0.176 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL042910.D

Acq: 08 Sep 2025 18:56

Instrument :

MSVOA_L

ClientSampleId :

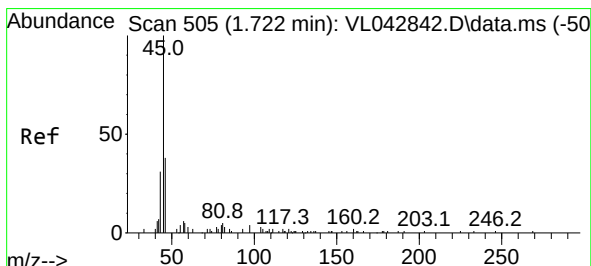
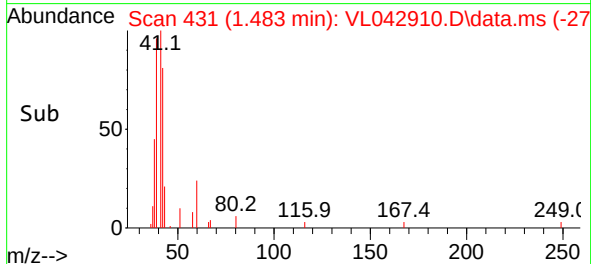
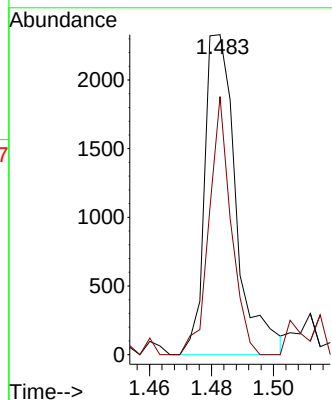
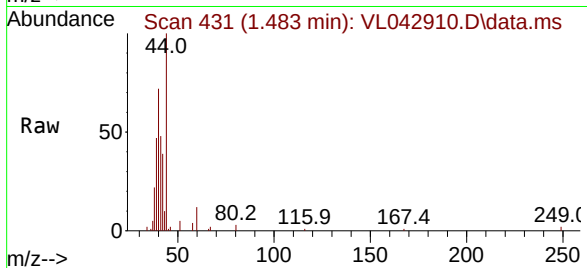
SV1

Tgt Ion: 41 Resp: 1644

Ion Ratio Lower Upper

41 100

42 63.7 53.0 79.4



#13

Ethanol

Concen: 19.803 ppbv

RT: 1.884 min Scan# 555

Delta R.T. 0.168 min

Lab File: VL042910.D

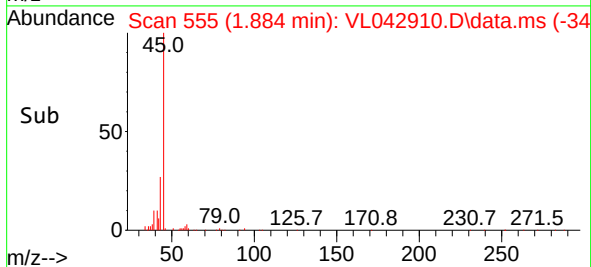
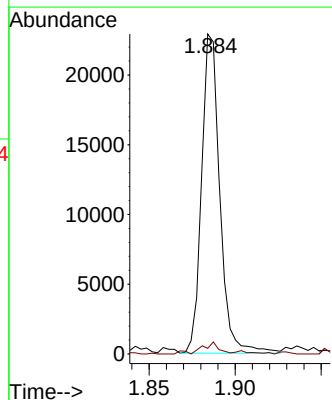
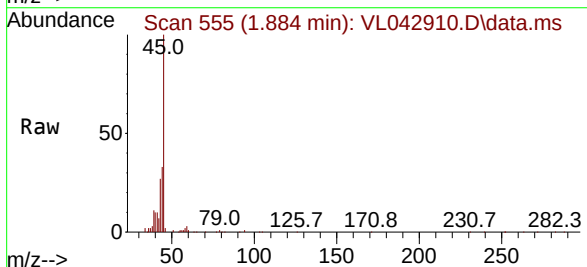
Acq: 08 Sep 2025 18:56

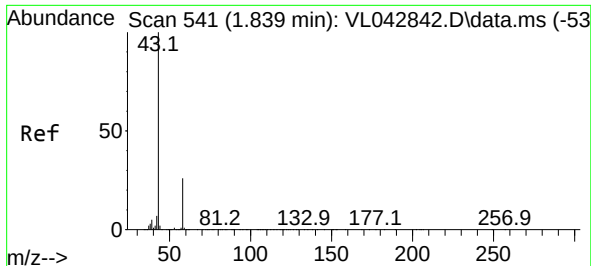
Tgt Ion: 45 Resp: 16926

Ion Ratio Lower Upper

45 100

46 0.0 17.5 69.9#





#15

Acetone

Concen: 1.747 ppbv

RT: 1.836 min Scan# 541

Delta R.T. 0.006 min

Lab File: VL042910.D

Acq: 08 Sep 2025 18:56

Instrument :

MSVOA_L

ClientSampleId :

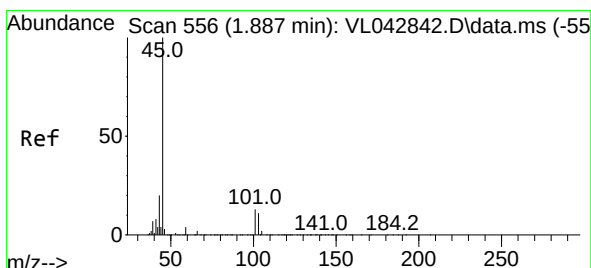
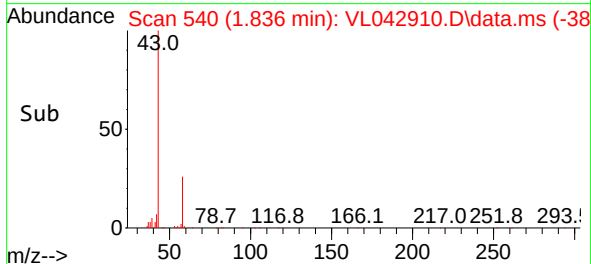
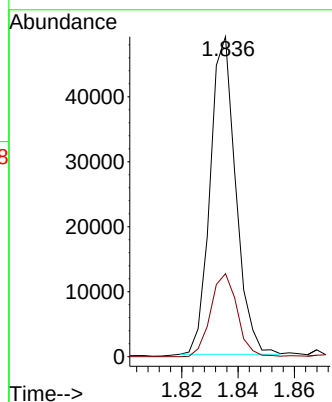
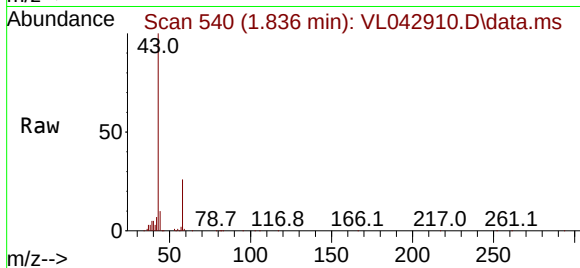
SV1

Tgt Ion: 43 Resp: 30874

Ion Ratio Lower Upper

43 100

58 27.2 22.4 33.6



#19

Isopropyl Alcohol

Concen: 1.603 ppbv

RT: 1.884 min Scan# 555

Delta R.T. 0.003 min

Lab File: VL042910.D

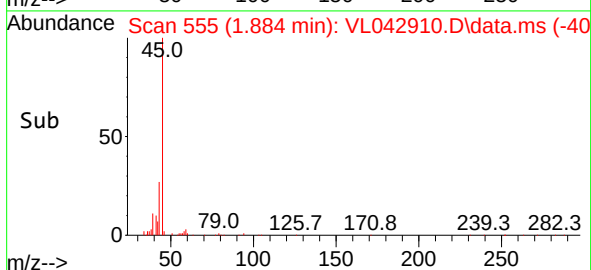
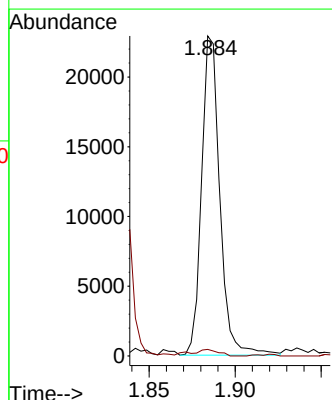
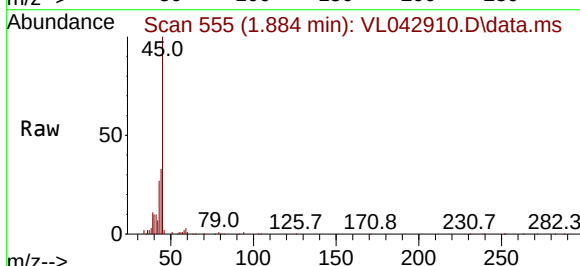
Acq: 08 Sep 2025 18:56

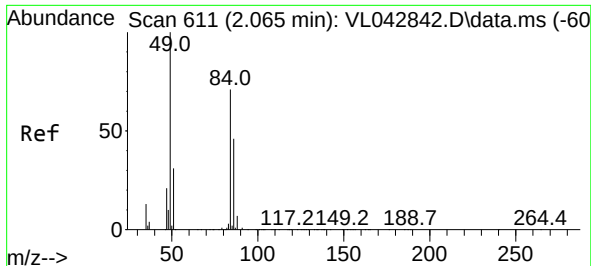
Tgt Ion: 45 Resp: 16926

Ion Ratio Lower Upper

45 100

58 49.7 32.7 49.1#

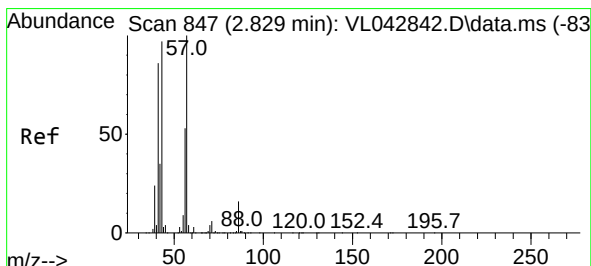
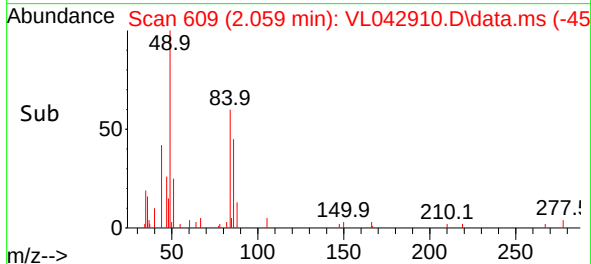
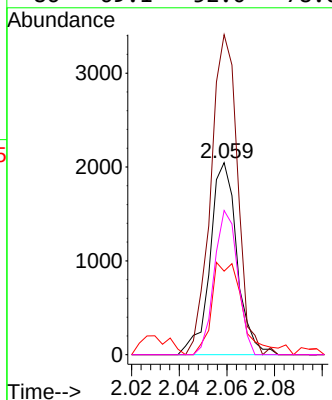
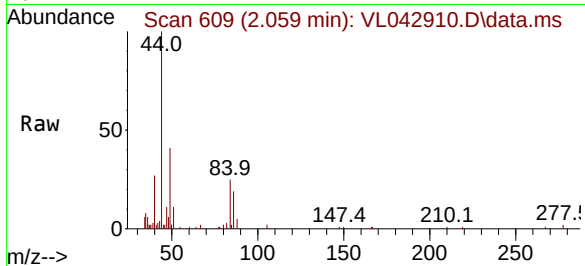




#20
Methylene Chloride
Concen: 0.217 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL042910.D
Acq: 08 Sep 2025 18:56

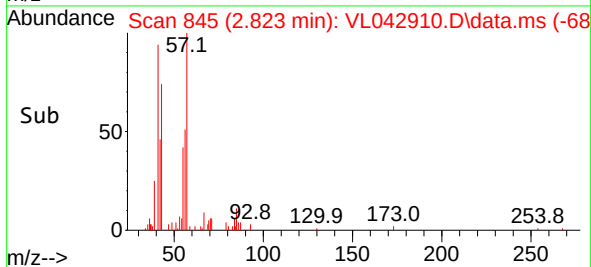
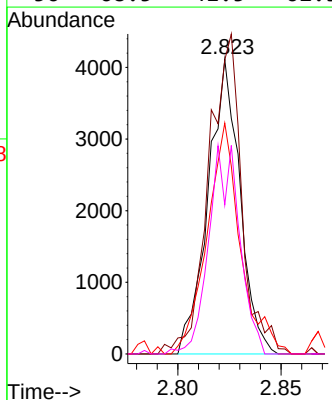
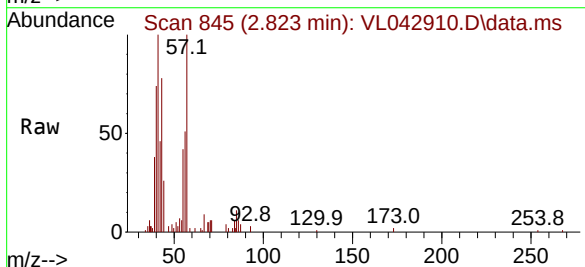
Instrument :
MSVOA_L
ClientSampleId :
SV1

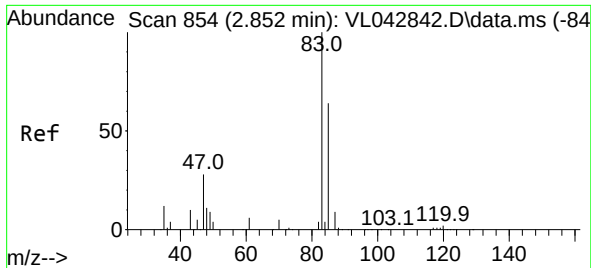
Tgt Ion:	84	Resp:	1610
Ion	Ratio	Lower	Upper
84	100		
49	161.8	112.3	168.5
51	37.4	36.0	54.0
86	69.1	52.0	78.0



#26
Hexane
Concen: 0.223 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.006 min
Lab File: VL042910.D
Acq: 08 Sep 2025 18:56

Tgt Ion:	57	Resp:	4408
Ion	Ratio	Lower	Upper
57	100		
41	113.8	68.6	103.0#
43	85.1	168.5	252.7#
56	68.5	41.5	62.3#





#29

Chloroform

Concen: 0.694 ppbv

RT: 2.845 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL042910.D

Acq: 08 Sep 2025 18:56

Instrument :

MSVOA_L

ClientSampleId :

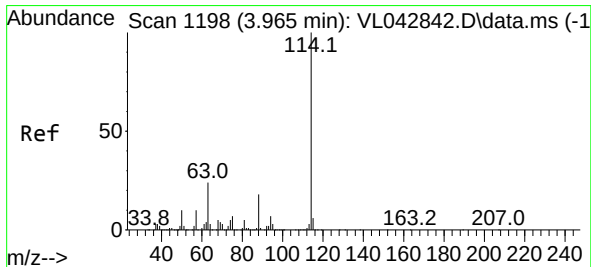
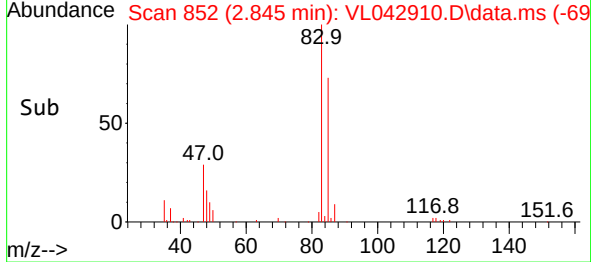
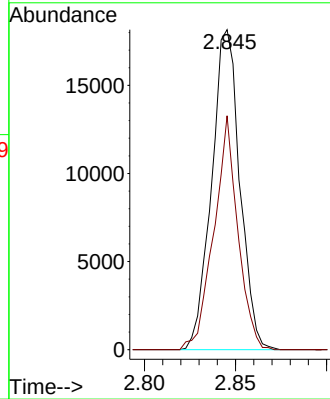
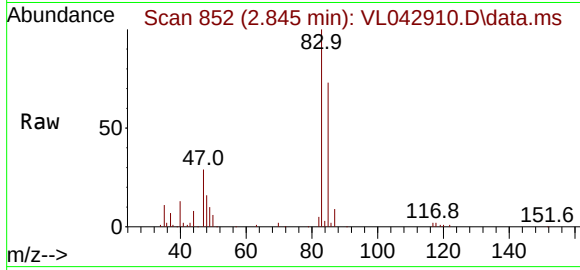
SV1

Tgt Ion: 83 Resp: 19564

Ion Ratio Lower Upper

83 100

85 73.1 51.1 76.7



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. 0.010 min

Lab File: VL042910.D

Acq: 08 Sep 2025 18:56

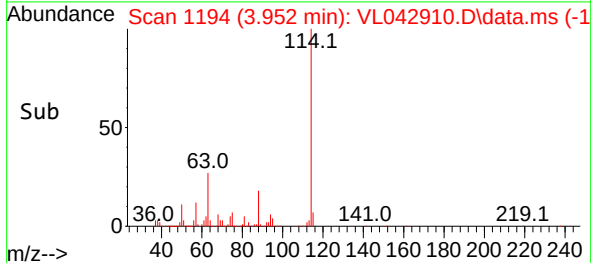
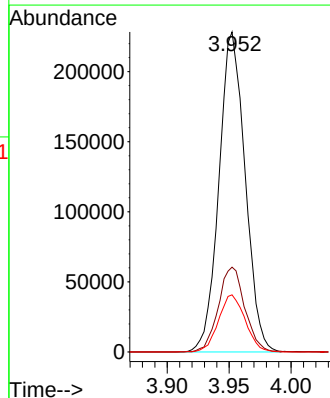
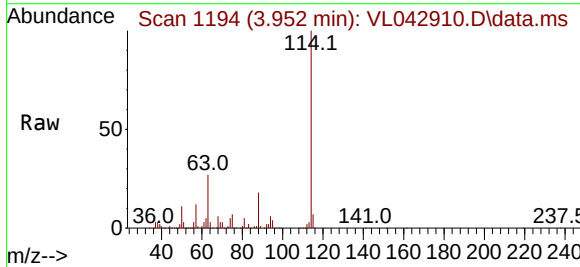
Tgt Ion: 114 Resp: 335875

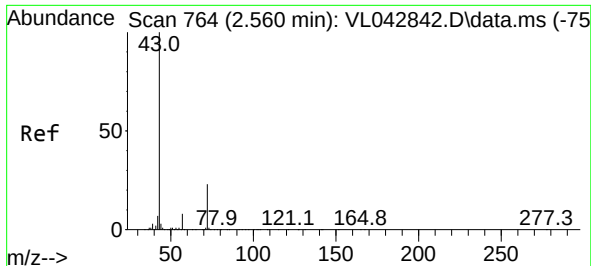
Ion Ratio Lower Upper

114 100

63 26.9 19.7 29.5

88 18.2 14.4 21.6

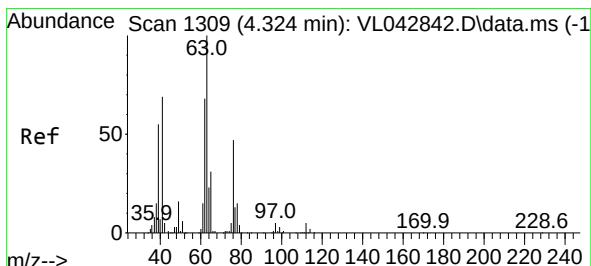
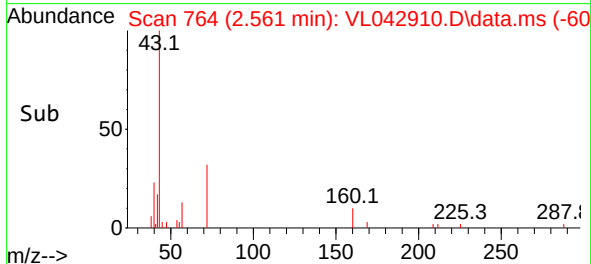
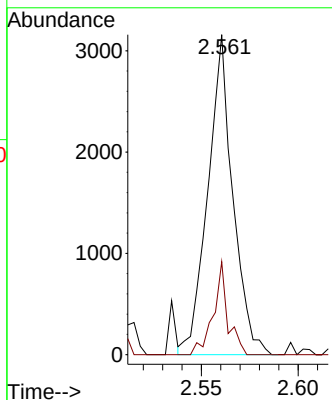
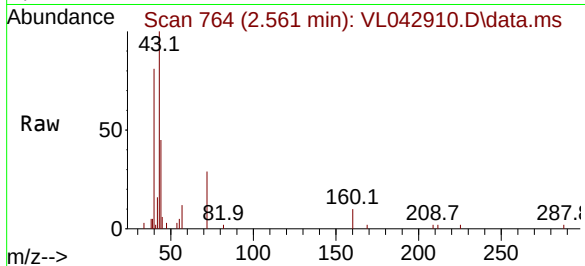




#34
2-Butanone
Concen: 0.125 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.013 min
Lab File: VL042910.D
Acq: 08 Sep 2025 18:56

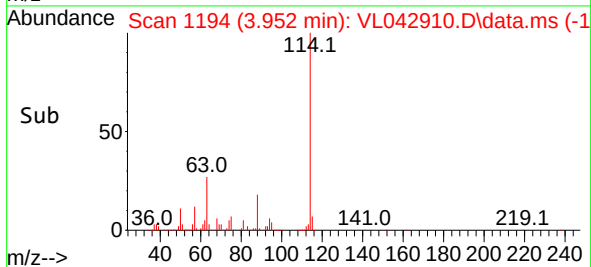
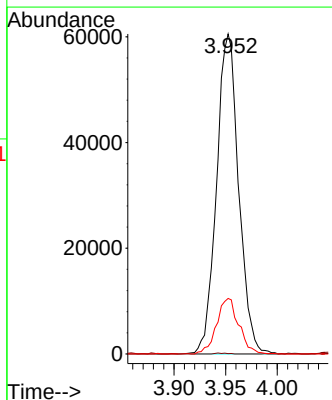
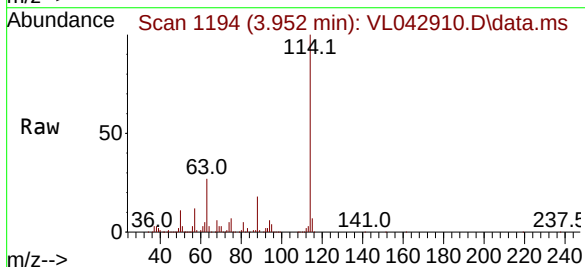
Instrument :
MSVOA_L
ClientSampleId :
SV1

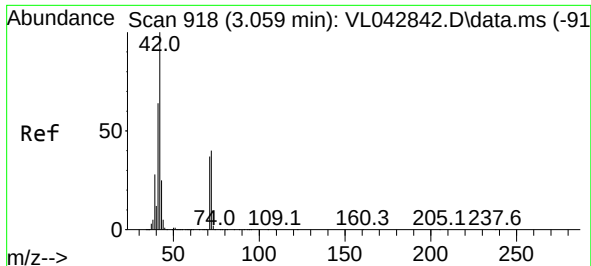
Tgt Ion: 43 Resp: 2836
Ion Ratio Lower Upper
43 100
72 16.7 18.6 28.0#



#39
1,2-Dichloropropane
Concen: 7.684 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.346 min
Lab File: VL042910.D
Acq: 08 Sep 2025 18:56

Tgt Ion: 63 Resp: 90262
Ion Ratio Lower Upper
63 100
41 0.3 55.0 82.4#
62 17.3 54.4 81.6#

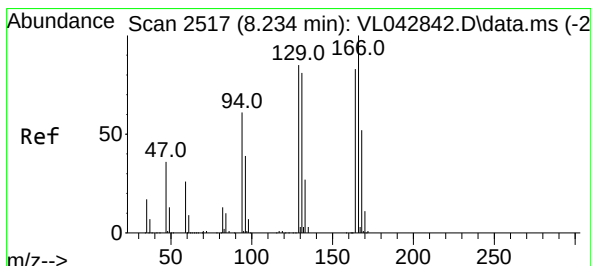
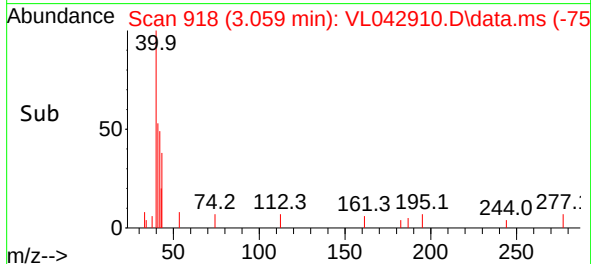
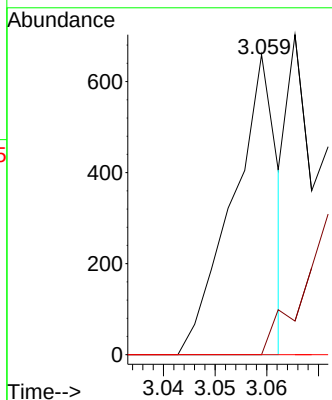
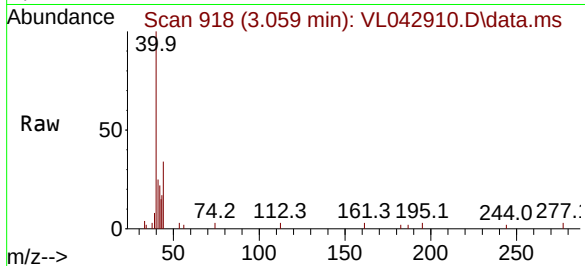




#41
Tetrahydrofuran
Concen: 0.031 ppbv
RT: 3.059 min Scan# 918
Delta R.T. 0.016 min
Lab File: VL042910.D
Acq: 08 Sep 2025 18:56

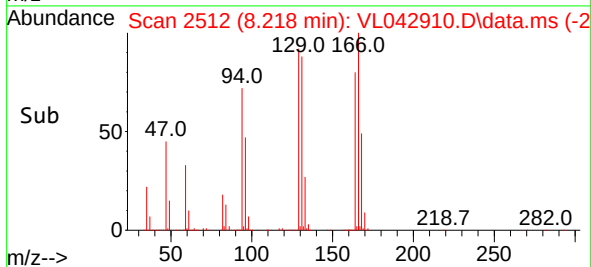
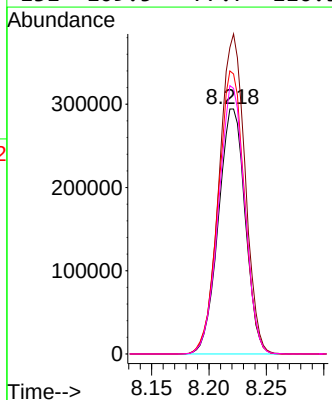
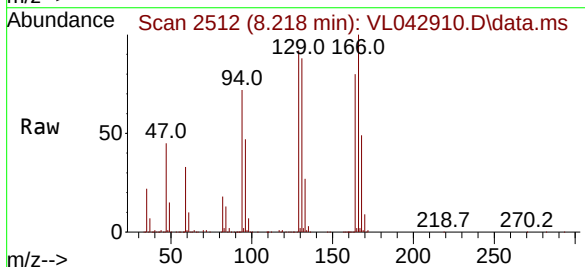
Instrument :
MSVOA_L
ClientSampleId :
SV1

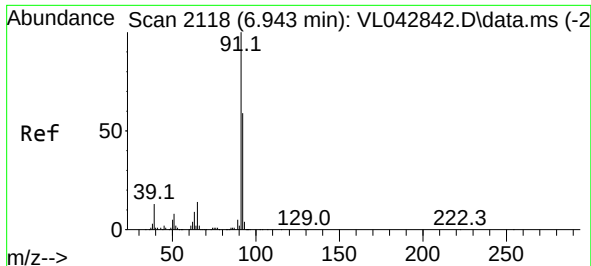
Tgt Ion: 42 Resp: 397
Ion Ratio Lower Upper
42 100
72 0.0 32.6 48.8#
71 0.0 30.0 45.0#



#52
Tetrachloroethene
Concen: 40.959 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.006 min
Lab File: VL042910.D
Acq: 08 Sep 2025 18:56

Tgt Ion: 164 Resp: 476578
Ion Ratio Lower Upper
164 100
166 125.1 96.5 144.7
129 115.6 81.8 122.6
131 109.5 77.7 116.5

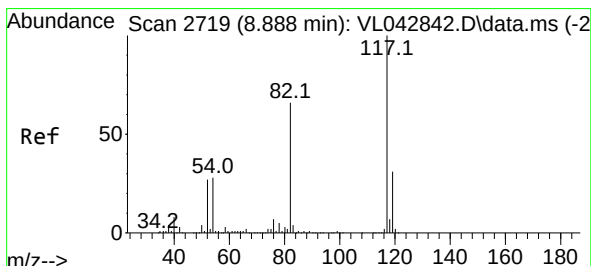
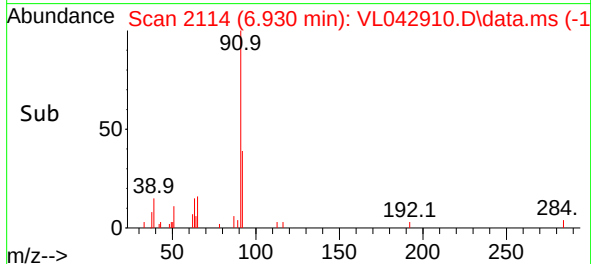
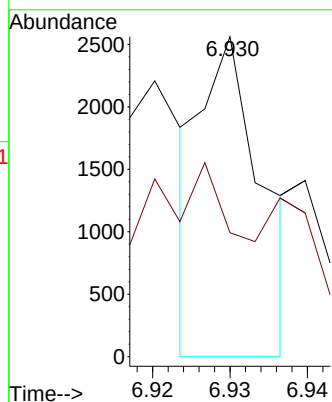
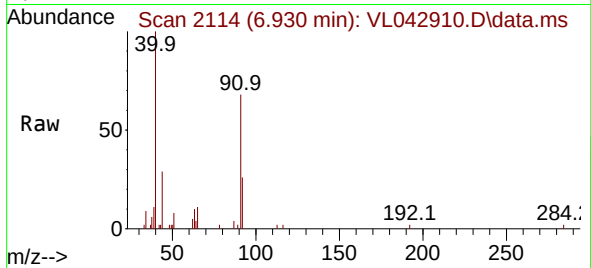




#53
Toluene
Concen: 0.037 ppbv
RT: 6.930 min Scan# 2118
Delta R.T. 0.016 min
Lab File: VL042910.D
Acq: 08 Sep 2025 18:56

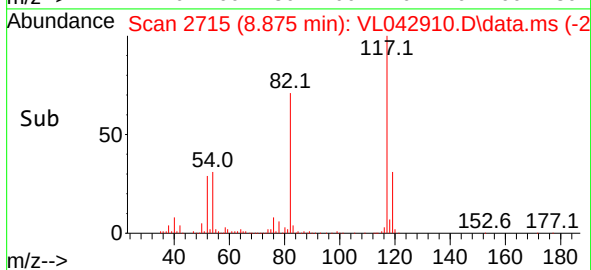
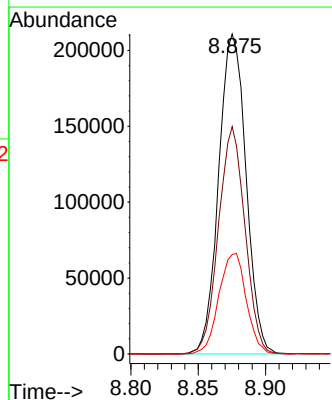
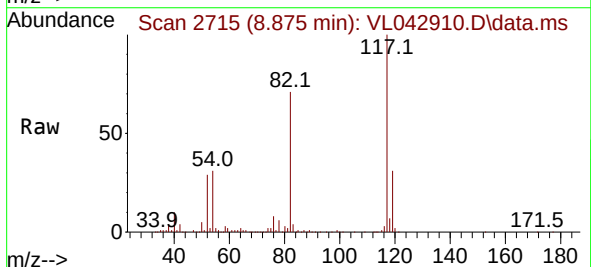
Instrument :
MSVOA_L
ClientSampleId :
SV1

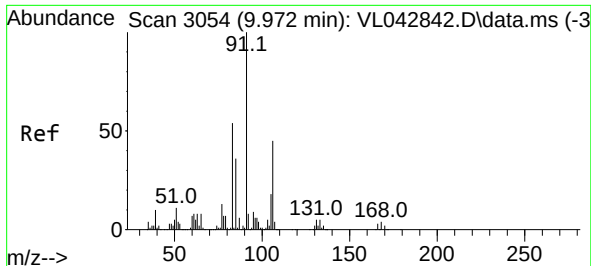
Tgt Ion: 91 Resp: 1404
Ion Ratio Lower Upper
91 100
92 199.3 47.8 71.6#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.006 min
Lab File: VL042910.D
Acq: 08 Sep 2025 18:56

Tgt Ion: 117 Resp: 297707
Ion Ratio Lower Upper
117 100
82 68.8 54.6 81.8
119 31.5 25.9 38.9





#63

1,1,2,2-Tetrachloroethane

Concen: 0.042 ppbv

RT: 9.947 min Scan# 3054

Delta R.T. -0.006 min

Lab File: VL042910.D

Acq: 08 Sep 2025 18:56

Instrument :

MSVOA_L

ClientSampleId :

SV1

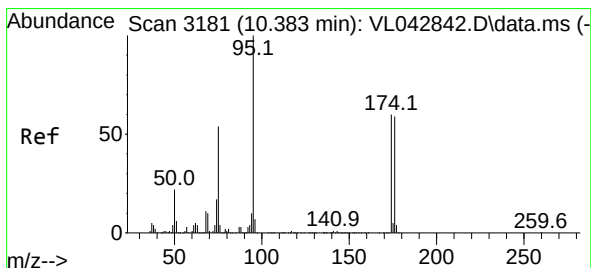
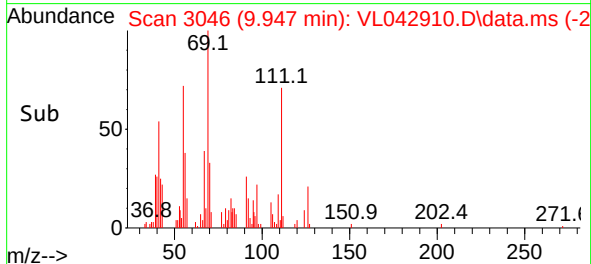
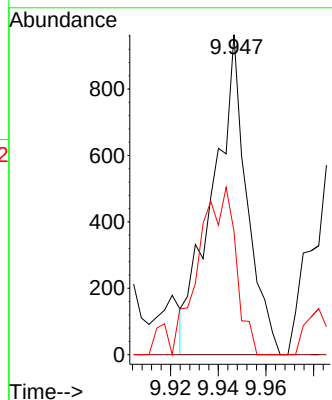
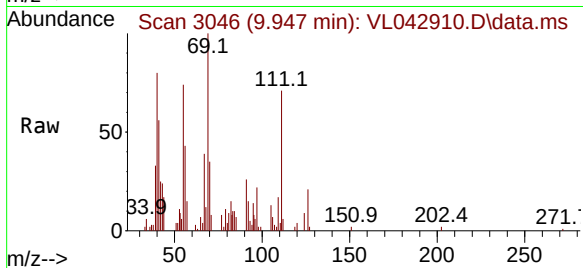
Tgt Ion: 83 Resp: 956

Ion Ratio Lower Upper

83 100

131 0.0 4.8 14.3#

85 0.0 32.3 96.8#



#68

1-Bromo-4-Fluorobenzene

Concen: 11.128 ppbv

RT: 10.371 min Scan# 3177

Delta R.T. 0.006 min

Lab File: VL042910.D

Acq: 08 Sep 2025 18:56

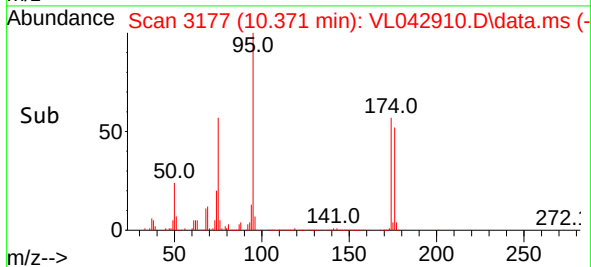
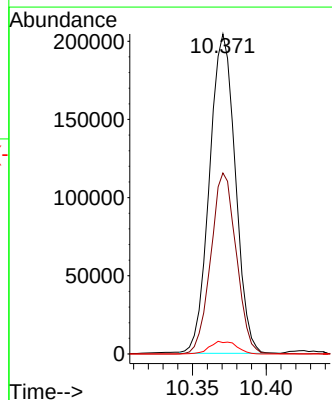
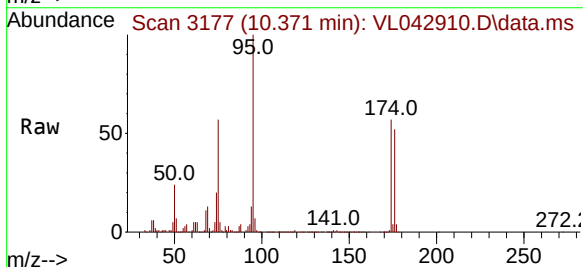
Tgt Ion: 95 Resp: 248461

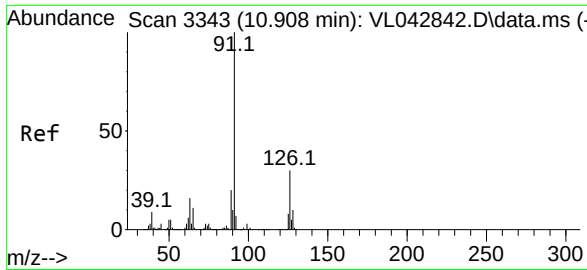
Ion Ratio Lower Upper

95 100

174 56.0 48.4 72.6

175 4.1 3.8 5.8





#71
 2-Chlorotoluene
 Concen: 0.036 ppbv
 RT: 10.986 min Scan# 31
 Delta R.T. 0.094 min
 Lab File: VL042910.D
 Acq: 08 Sep 2025 18:56

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Tgt Ion: 91 Resp: 1702
 Ion Ratio Lower Upper
 91 100
 126 12.3 12.0 47.8

