

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
 Data File : VL042810.D
 Acq On : 04 Aug 2025 18:00
 Operator : SY/MD
 Sample : Q2750-10DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 05 01:10:11 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	151986	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	405426	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	345370	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	255374	9.337	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	1046	0.052	ppbv #	62
3) Chlorodifluoromethane	1.473	51	46568	1.779	ppbv	97
4) Chloromethane	1.531	50	610	0.075	ppbv	94
7) Chloroethane	1.706	64	129	0.042	ppbv #	45
9) Propene	1.884	41	353089	37.113	ppbv	93
13) Ethanol	1.719	45	163998	235.588	ppbv	90
15) Acetone	1.836	43	66024	3.146	ppbv	98
16) 1,3-Butadiene	1.561	39	4747	0.530	ppbv #	19
17) tert-Butyl alcohol	1.884	59	139390	7.364	ppbv	96
19) Isopropyl Alcohol	1.884	45	2471720	221.626	ppbv #	39
20) Methylene Chloride	2.062	84	2567	0.388	ppbv #	85
21) Allyl Chloride	1.962	41	6174	0.477	ppbv #	17
25) Ethyl Acetate	2.836	43	2314	0.050	ppbv #	88
26) Hexane	2.823	57	8716	0.428	ppbv #	47
27) Carbon Disulfide	2.150	76	1767	0.101	ppbv #	67
34) 2-Butanone	2.561	43	2220	0.077	ppbv	96
39) 1,2-Dichloropropane	3.956	63	101560	7.161	ppbv #	21
79) Naphthalene	13.507	128	38	0.436	ppbv #	69
80) Naphthalene,2-methyl-	14.439	142	30	1.130	ppbv #	1
81) 1,2,4-Trichlorobenzene	13.488	180	34	0.436	ppbv #	1

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

Instrument :

MSVOA_L

ClientSampleId :

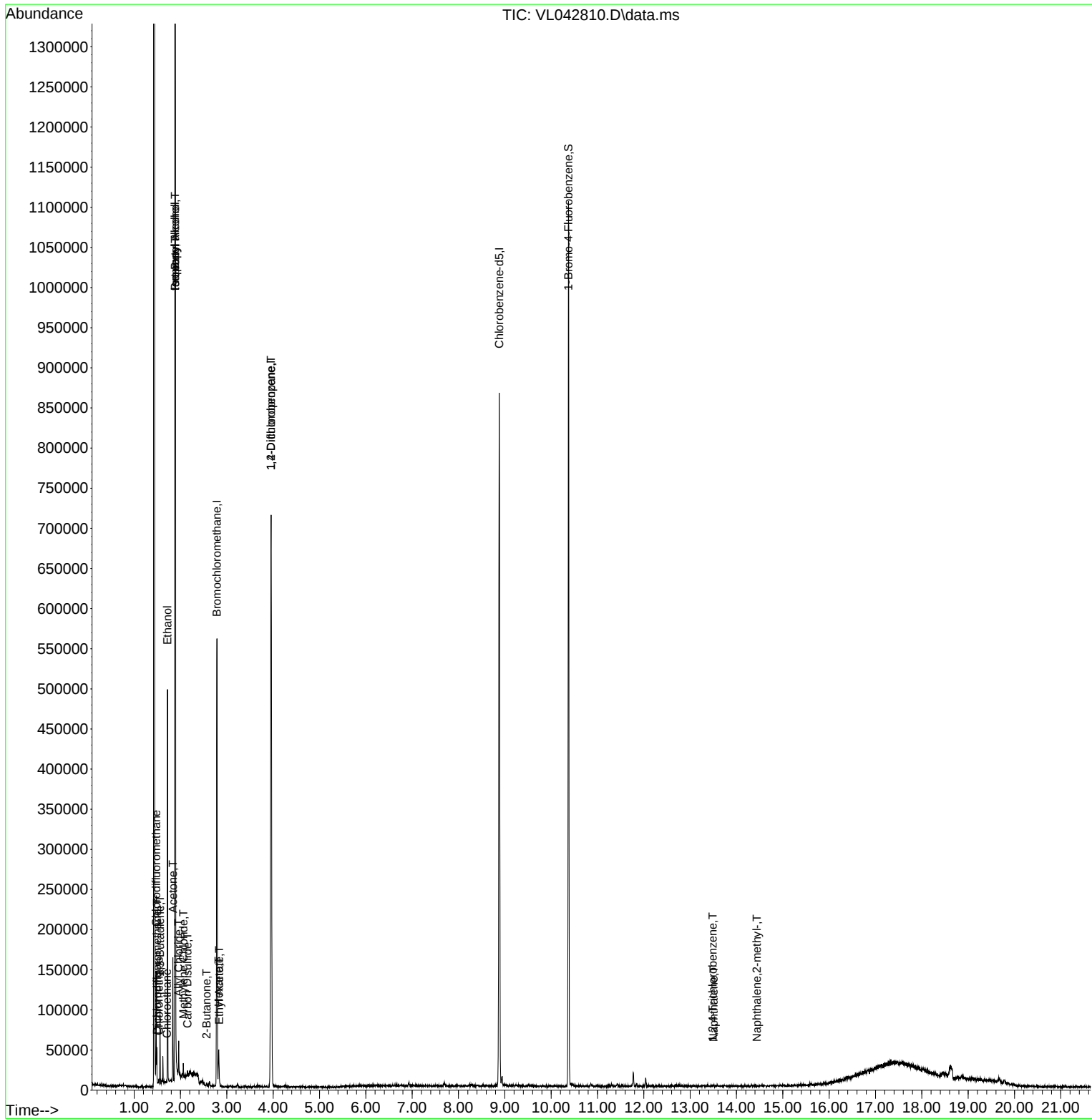
Quant Time: Aug 05 01:10:11 2025

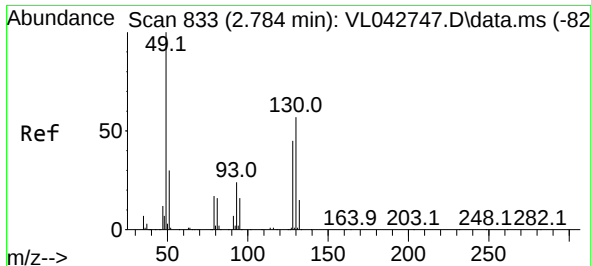
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

QLast Update : Thu Jul 24 05:24:41 2025

Response via : Initial Calibration

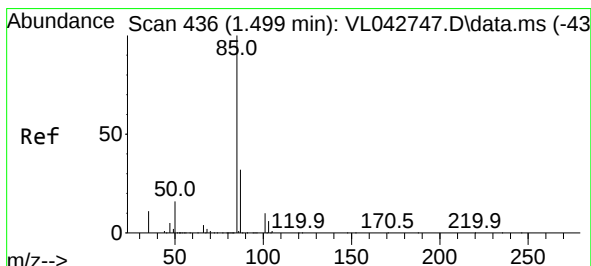
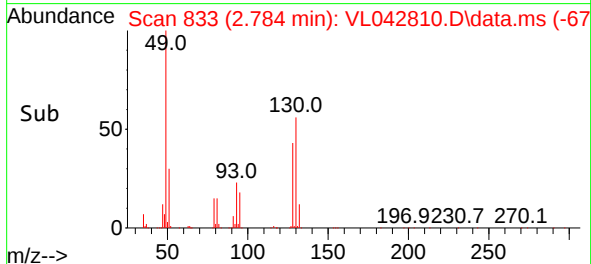
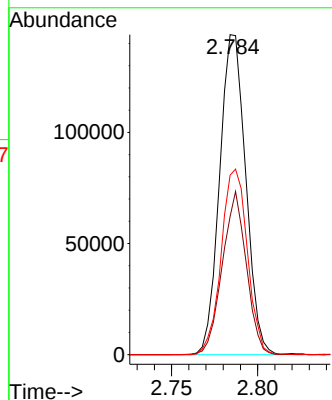
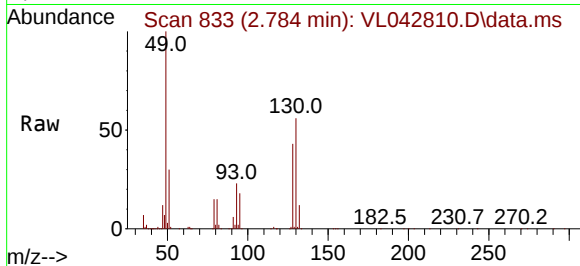




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.784 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VL042810.D
 Acq: 04 Aug 2025 18:00

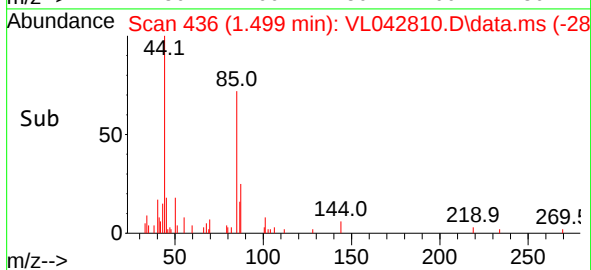
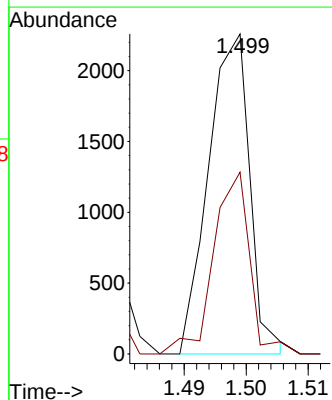
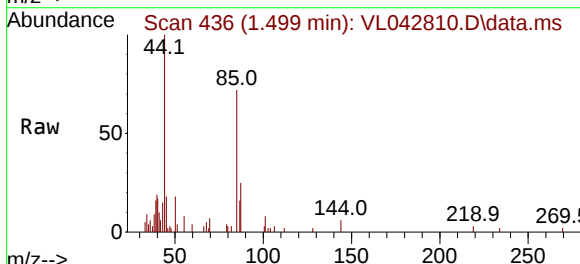
Instrument :
 MSVOA_L
 ClientSampleId :

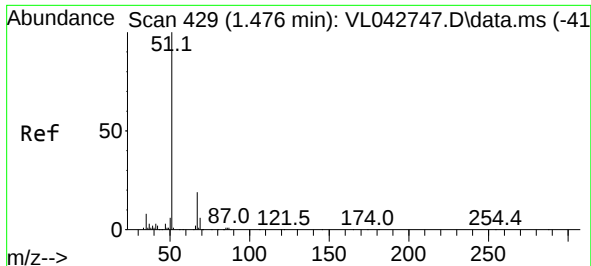
Tgt Ion: 49 Resp: 151986
 Ion Ratio Lower Upper
 49 100
 128 46.8 23.6 71.0
 130 58.2 30.3 90.8



#2
 Dichlorodifluoromethane
 Concen: 0.052 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.000 min
 Lab File: VL042810.D
 Acq: 04 Aug 2025 18:00

Tgt Ion: 85 Resp: 1046
 Ion Ratio Lower Upper
 85 100
 87 53.0 25.4 38.2#

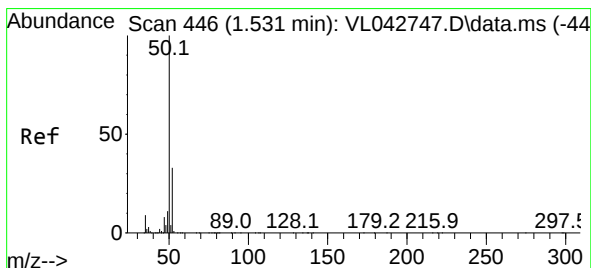
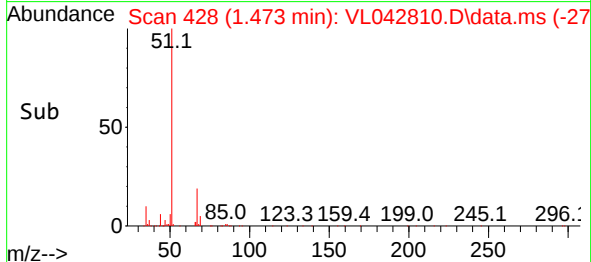
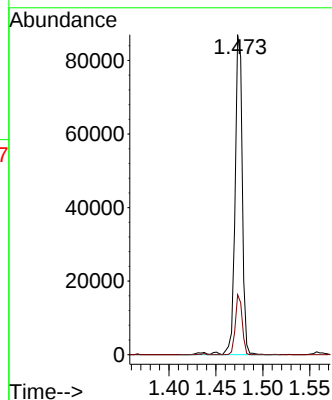
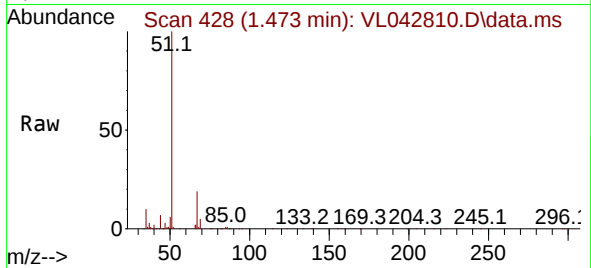




#3
Chlorodifluoromethane
Concen: 1.779 ppbv
RT: 1.473 min Scan# 429
Delta R.T. -0.003 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

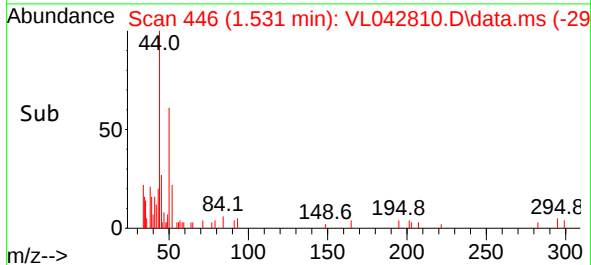
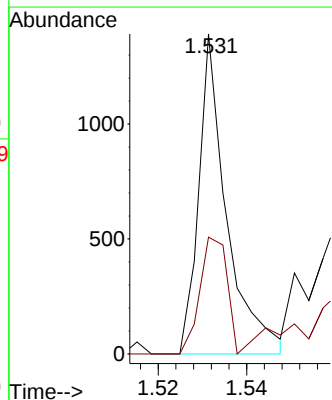
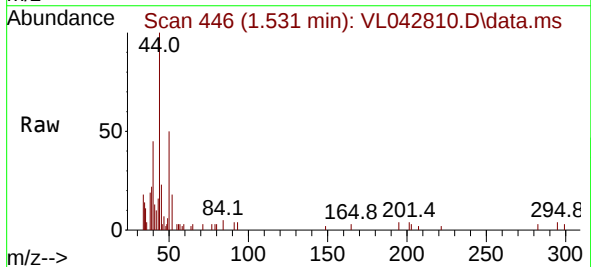
Instrument :
MSVOA_L
ClientSampleId :

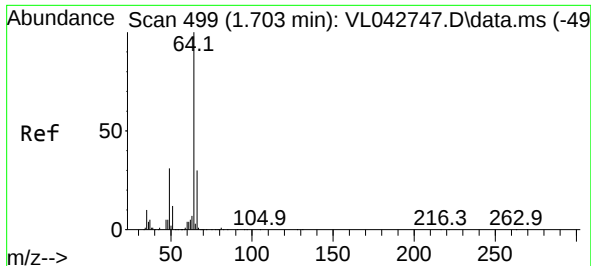
Tgt Ion: 51 Resp: 46568
Ion Ratio Lower Upper
51 100
67 17.6 15.0 22.6



#4
Chloromethane
Concen: 0.075 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Tgt Ion: 50 Resp: 610
Ion Ratio Lower Upper
50 100
52 36.5 26.6 40.0

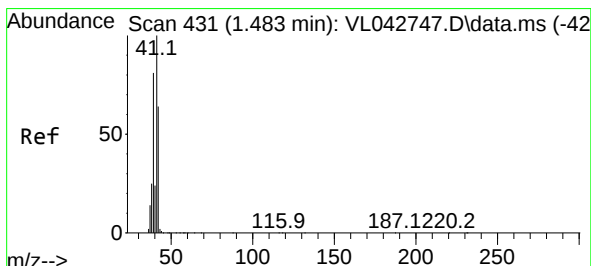
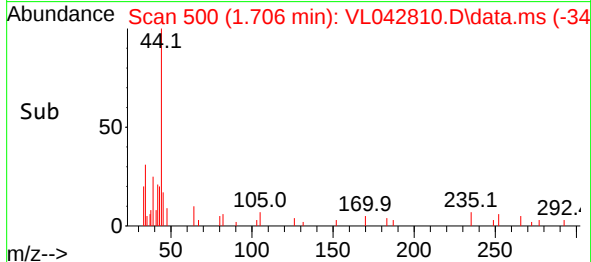
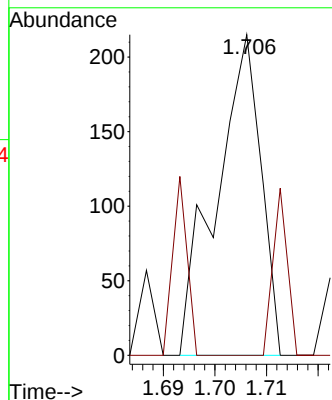
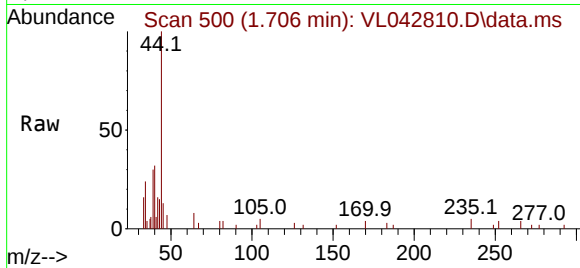




#7
Chloroethane
Concen: 0.042 ppbv
RT: 1.706 min Scan# 501
Delta R.T. 0.003 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

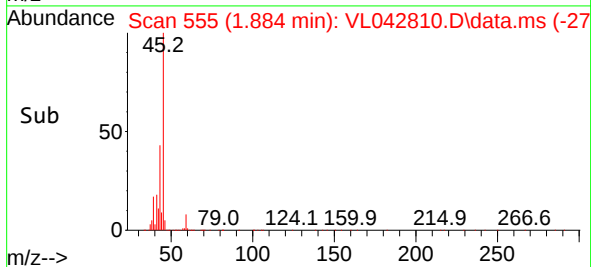
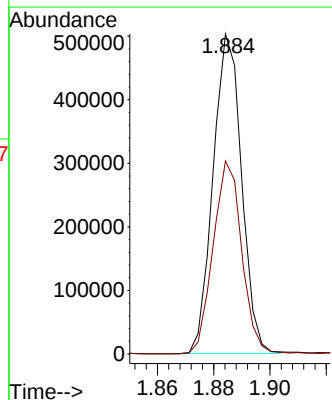
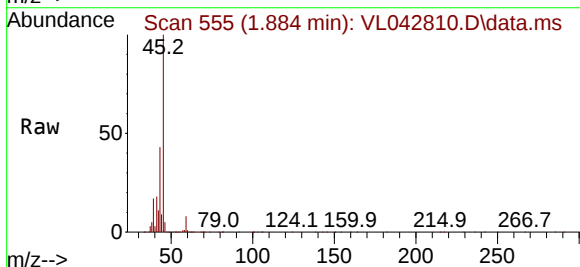
Instrument :
MSVOA_L
ClientSampleId :

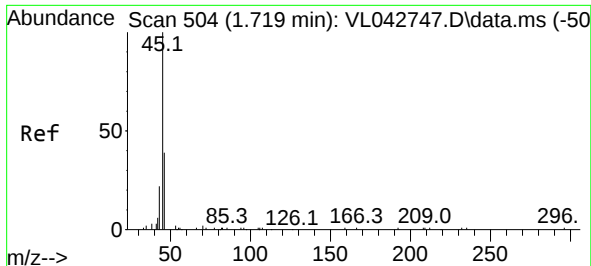
Tgt Ion: 64 Resp: 129
Ion Ratio Lower Upper
64 100
66 0.0 24.1 36.1#



#9
Propene
Concen: 37.113 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.402 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Tgt Ion: 41 Resp: 353089
Ion Ratio Lower Upper
41 100
42 61.1 53.2 79.8

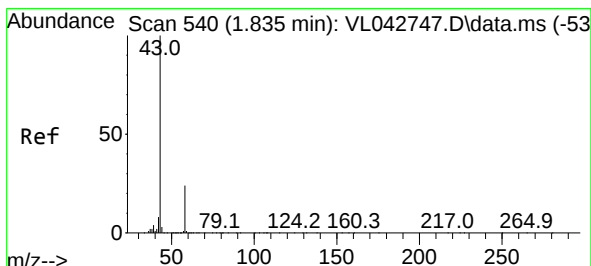
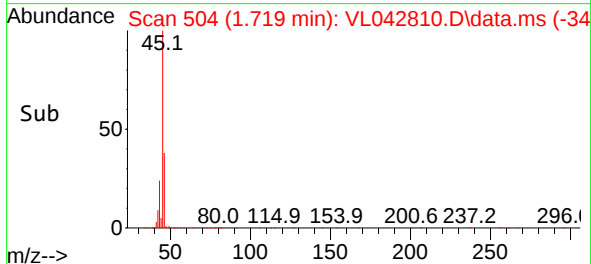
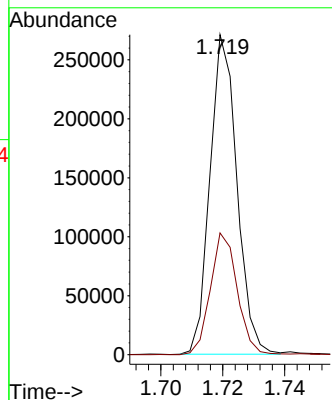
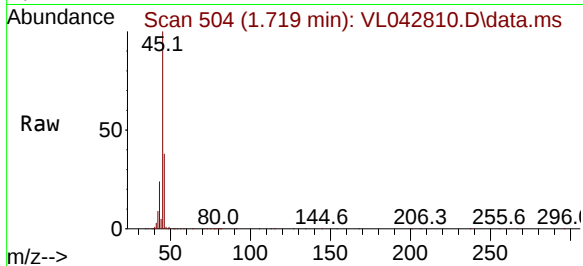




#13
Ethanol
Concen: 235.588 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

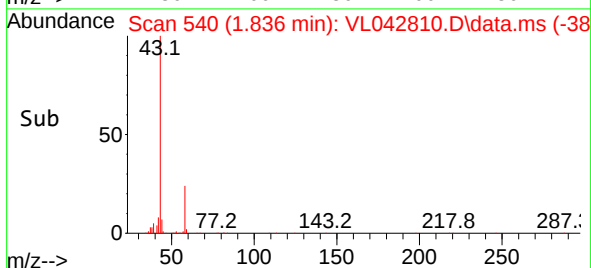
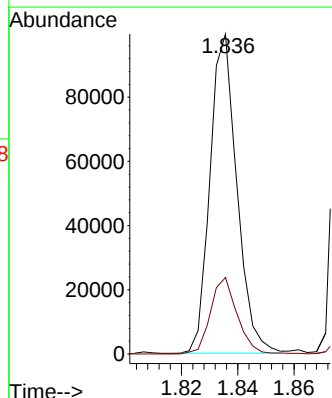
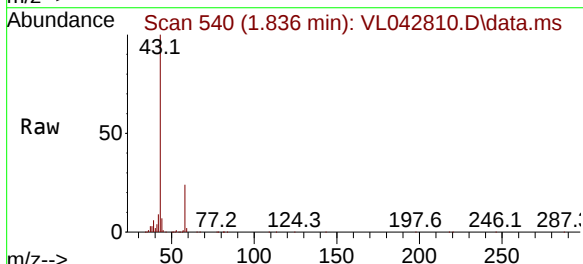
Instrument :
MSVOA_L
ClientSampleId :

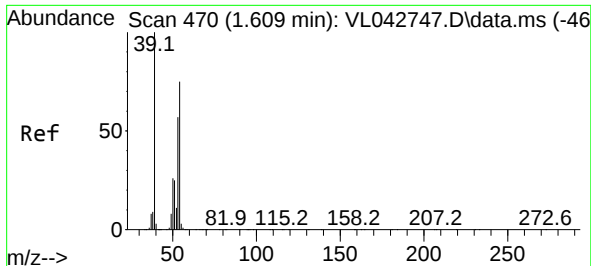
Tgt Ion: 45 Resp: 163998
Ion Ratio Lower Upper
45 100
46 38.3 17.8 71.4



#15
Acetone
Concen: 3.146 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Tgt Ion: 43 Resp: 66024
Ion Ratio Lower Upper
43 100
58 23.8 19.8 29.8

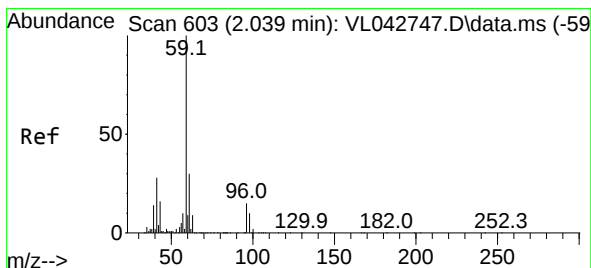
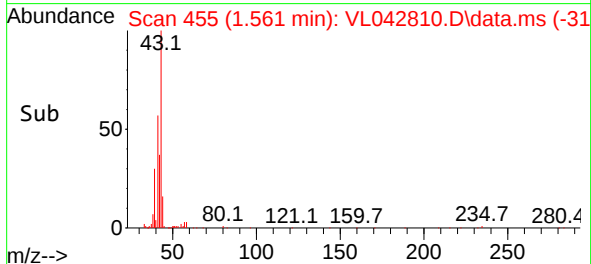
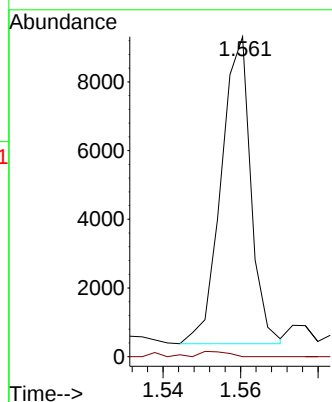
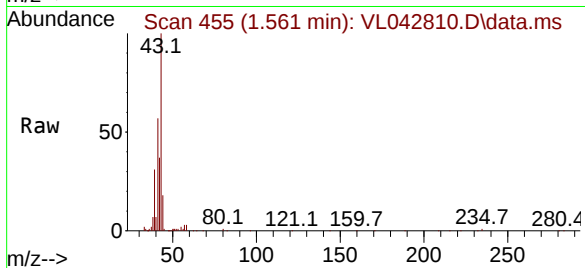




#16
1,3-Butadiene
Concen: 0.530 ppbv
RT: 1.561 min Scan# 41
Delta R.T. -0.048 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

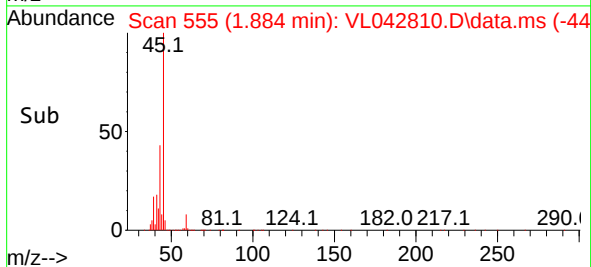
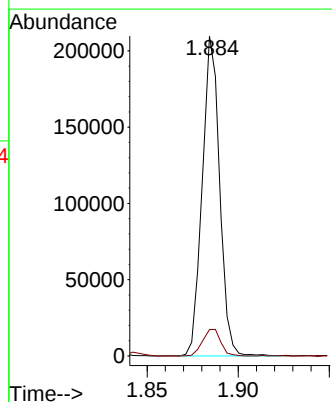
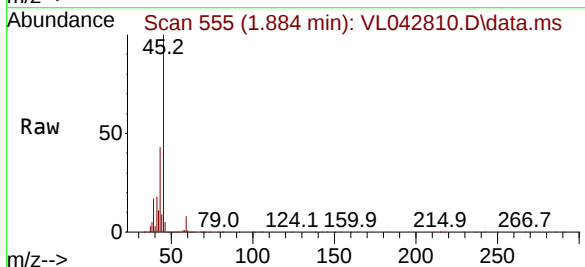
Instrument :
MSVOA_L
ClientSampleId :

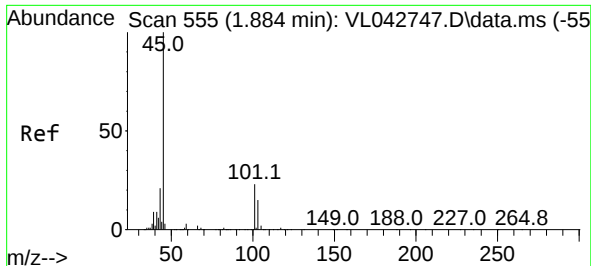
Tgt Ion: 39 Resp: 4747
Ion Ratio Lower Upper
39 100
54 2.3 54.5 81.7#



#17
tert-Butyl alcohol
Concen: 7.364 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.155 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Tgt Ion: 59 Resp: 139390
Ion Ratio Lower Upper
59 100
57 8.8 8.3 12.5

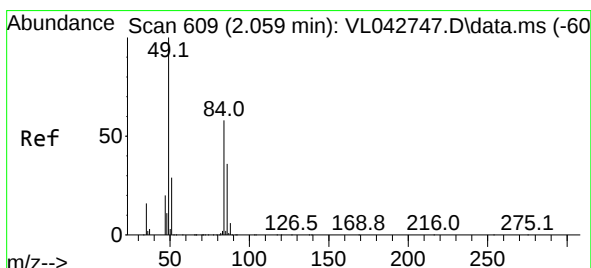
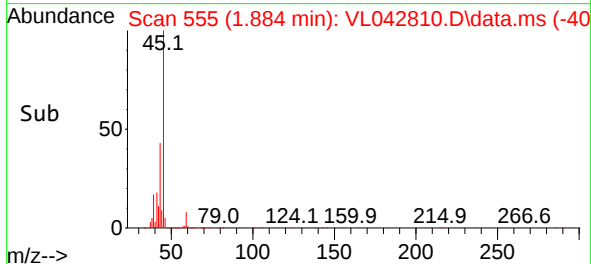
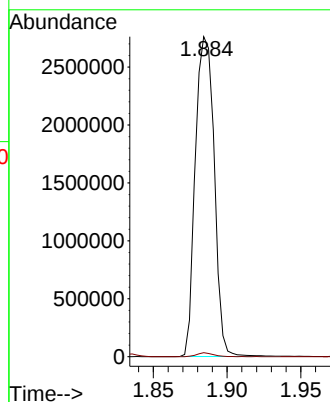
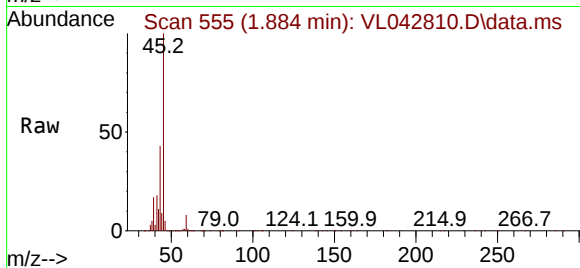




#19
Isopropyl Alcohol
Concen: 221.626 ppbv
RT: 1.884 min Scan# 51
Delta R.T. 0.000 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

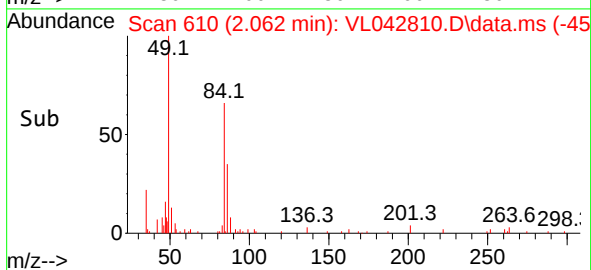
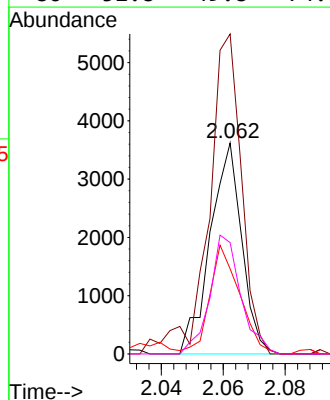
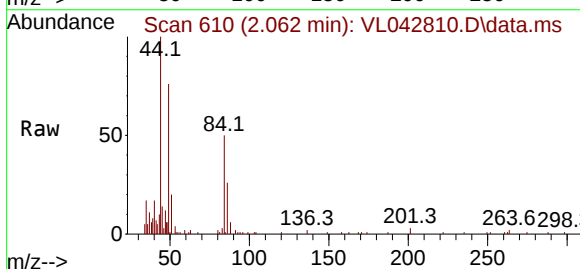
Instrument :
MSVOA_L
ClientSampleId :

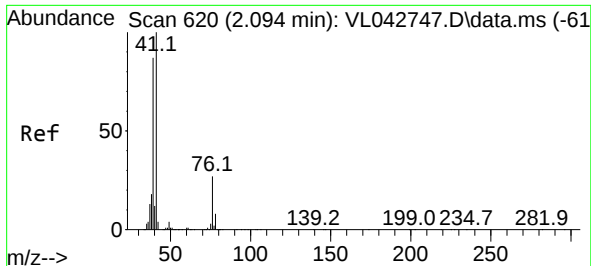
Tgt Ion: 45 Resp: 2471720
Ion Ratio Lower Upper
45 100
58 1.1 30.0 45.0#



#20
Methylene Chloride
Concen: 0.388 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Tgt Ion: 84 Resp: 2567
Ion Ratio Lower Upper
84 100
49 151.6 138.6 208.0
51 40.3 40.6 61.0#
86 52.8 49.8 74.8

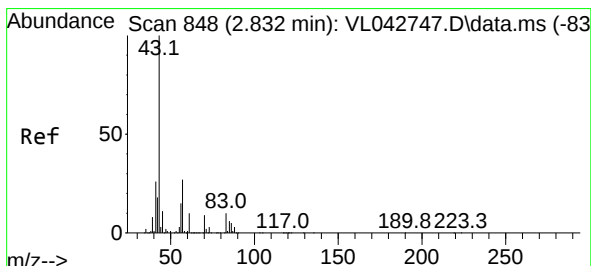
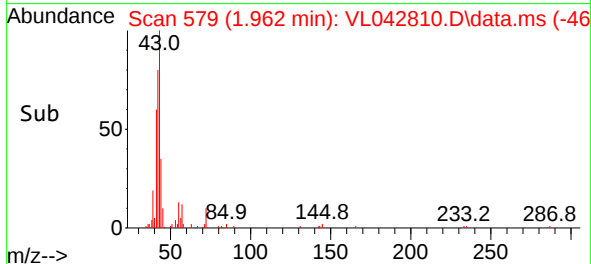
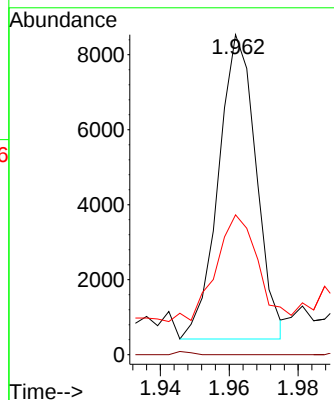
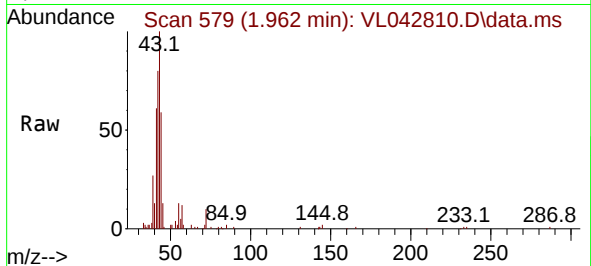




#21
 Allyl Chloride
 Concen: 0.477 ppbv
 RT: 1.962 min Scan# 51
 Delta R.T. -0.133 min
 Lab File: VL042810.D
 Acq: 04 Aug 2025 18:00

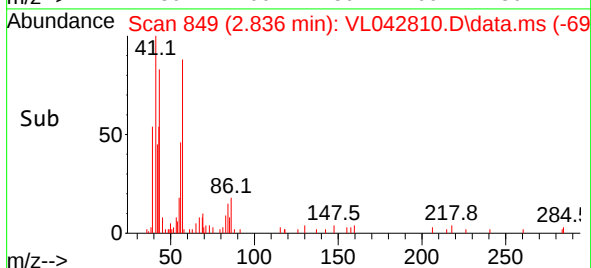
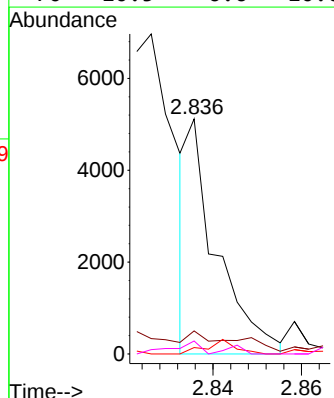
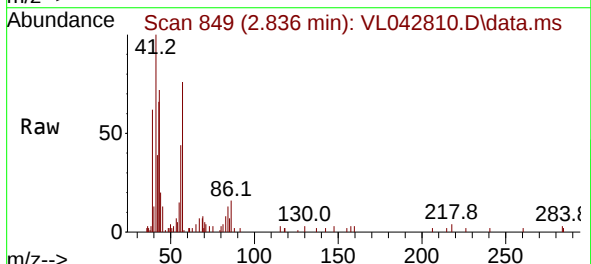
Instrument :
 MSVOA_L
 ClientSampleId :

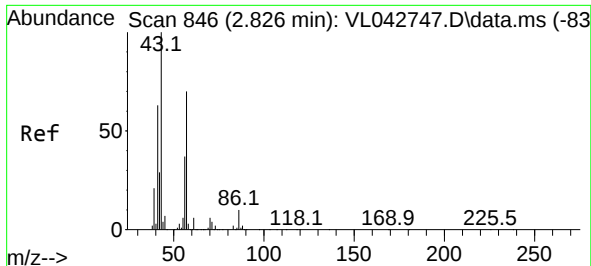
Tgt Ion: 41 Resp: 6174
 Ion Ratio Lower Upper
 41 100
 76 1.8 21.1 31.7#
 39 0.0 68.3 102.5#



#25
 Ethyl Acetate
 Concen: 0.050 ppbv
 RT: 2.836 min Scan# 849
 Delta R.T. 0.003 min
 Lab File: VL042810.D
 Acq: 04 Aug 2025 18:00

Tgt Ion: 43 Resp: 2314
 Ion Ratio Lower Upper
 43 100
 45 0.0 7.8 11.6#
 61 8.8 6.7 10.1
 70 10.5 6.6 10.0#

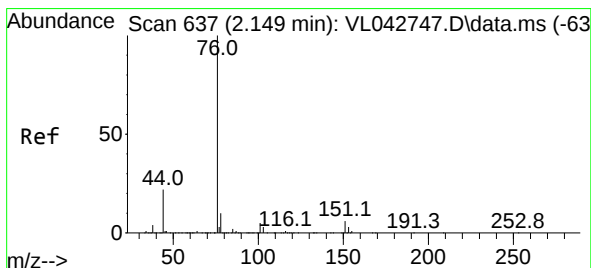
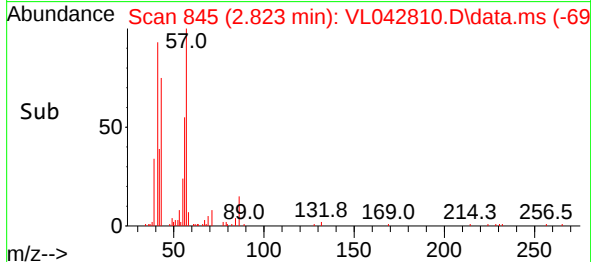
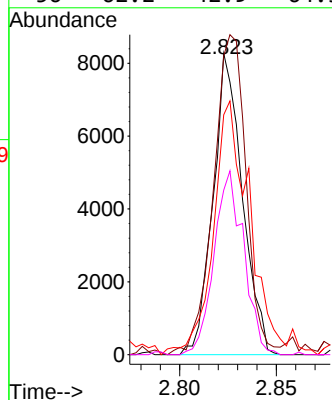
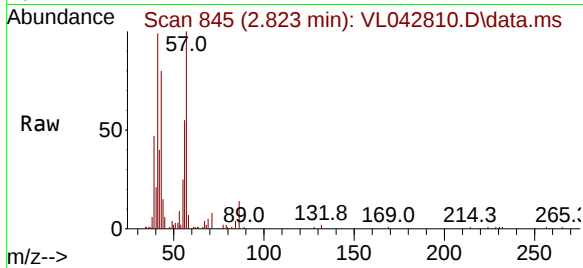




#26
Hexane
Concen: 0.428 ppbv
RT: 2.823 min Scan# 846
Delta R.T. -0.003 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

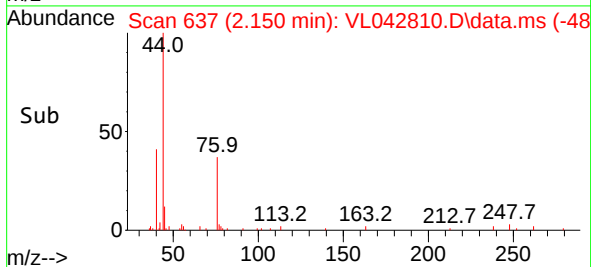
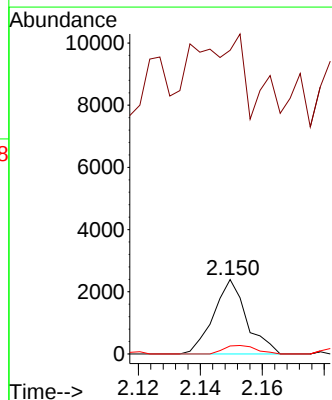
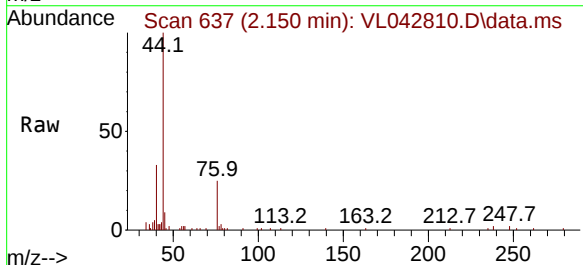
Instrument :
MSVOA_L
ClientSampleId :

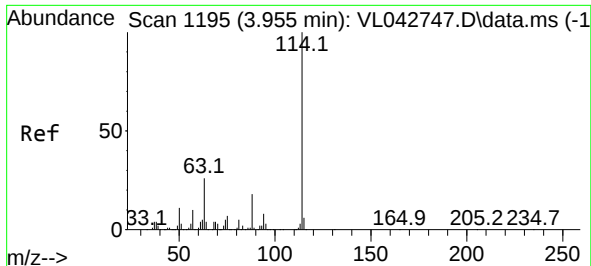
Tgt Ion:	57	Resp:	8716
Ion	Ratio	Lower	Upper
57	100		
41	124.7	75.4	113.2#
43	111.7	185.0	277.6#
56	62.2	42.9	64.3



#27
Carbon Disulfide
Concen: 0.101 ppbv
RT: 2.150 min Scan# 637
Delta R.T. 0.000 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Tgt Ion:	76	Resp:	1767
Ion	Ratio	Lower	Upper
76	100		
44	0.0	19.3	28.9#
78	11.1	9.9	14.9

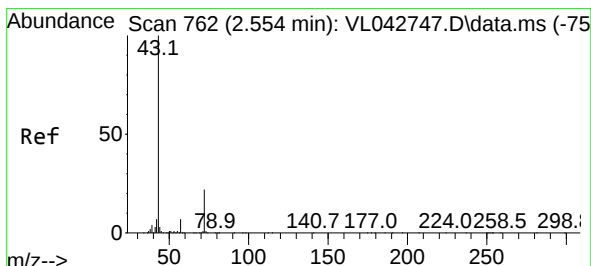
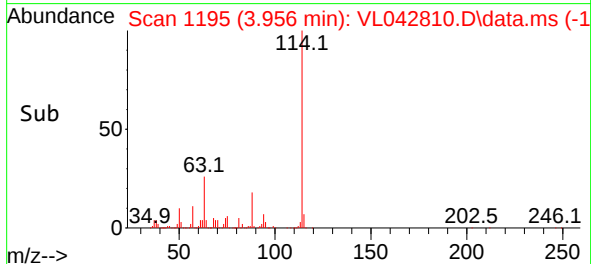
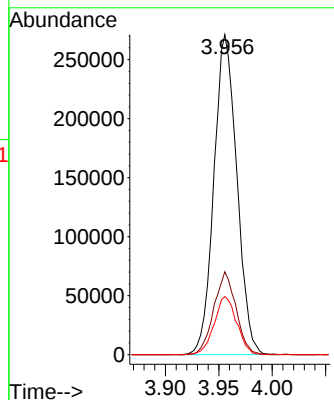
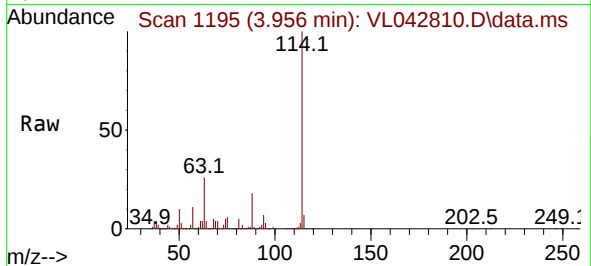




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 1195
Delta R.T. 0.000 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

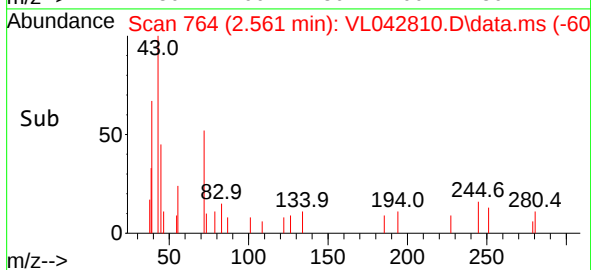
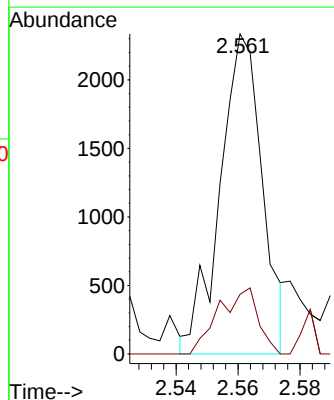
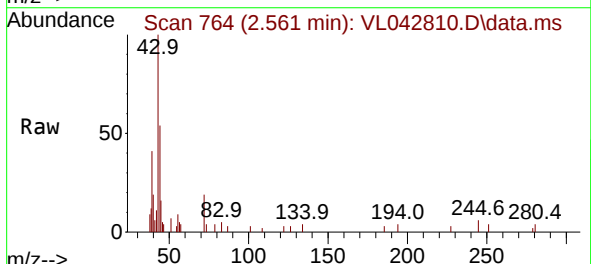
Instrument :
MSVOA_L
ClientSampleId :

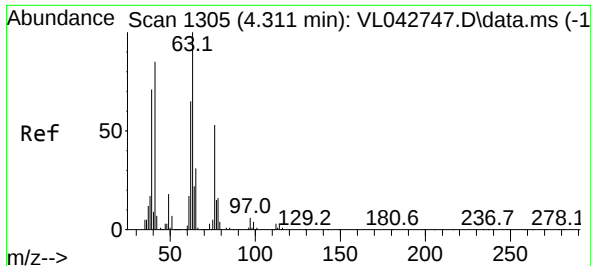
Tgt Ion:114 Resp: 405426
Ion Ratio Lower Upper
114 100
63 25.1 20.5 30.7
88 17.9 14.0 21.0



#34
2-Butanone
Concen: 0.077 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.007 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Tgt Ion: 43 Resp: 2220
Ion Ratio Lower Upper
43 100
72 23.4 17.4 26.0





#39

1,2-Dichloropropane

Concen: 7.161 ppbv

RT: 3.956 min Scan# 1195

Delta R.T. -0.356 min

Lab File: VL042810.D

Acq: 04 Aug 2025 18:00

Instrument :

MSVOA_L

ClientSampleId :

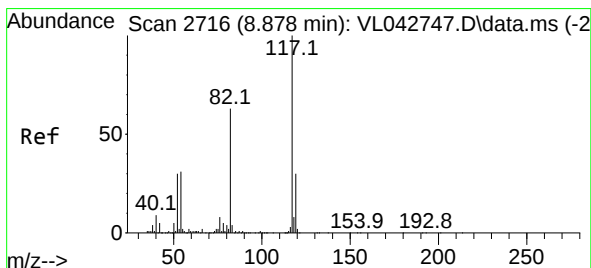
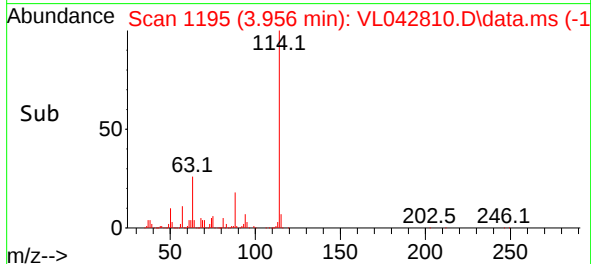
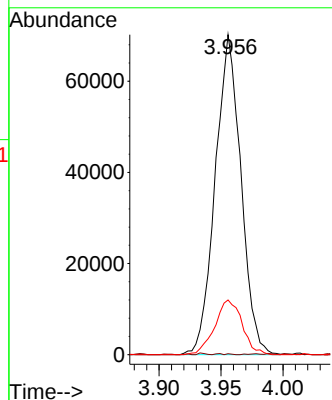
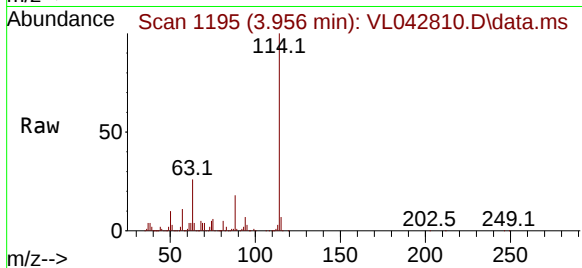
Tgt Ion: 63 Resp: 101560

Ion Ratio Lower Upper

63 100

41 0.3 68.2 102.4#

62 17.1 52.0 78.0#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.879 min Scan# 2716

Delta R.T. 0.000 min

Lab File: VL042810.D

Acq: 04 Aug 2025 18:00

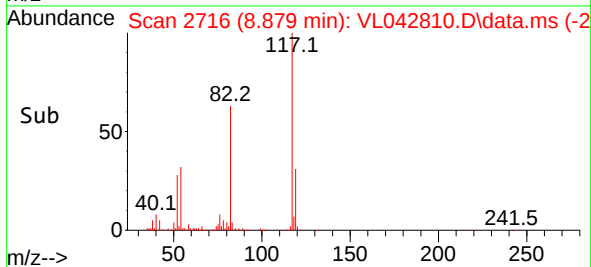
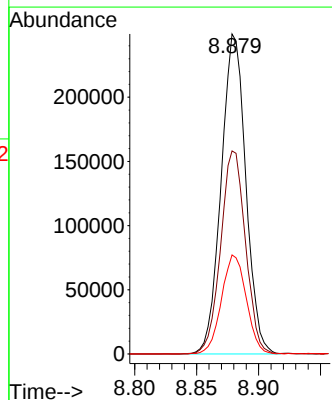
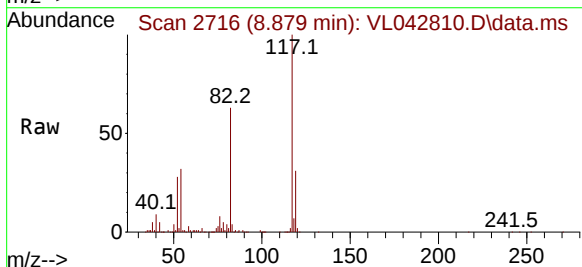
Tgt Ion: 117 Resp: 345370

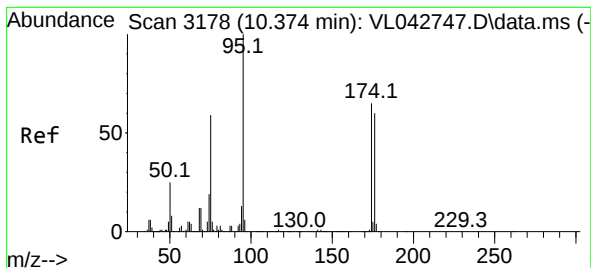
Ion Ratio Lower Upper

117 100

82 64.1 53.3 79.9

119 31.3 25.8 38.6

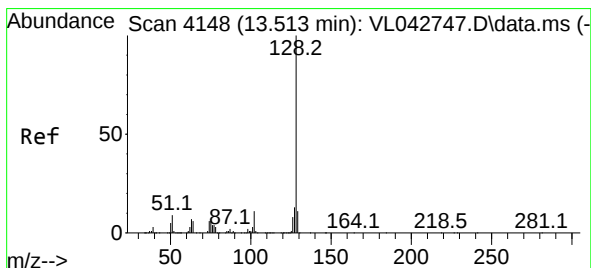
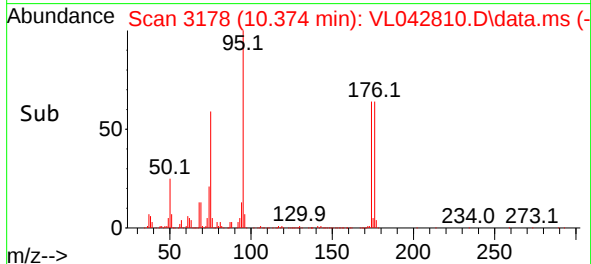
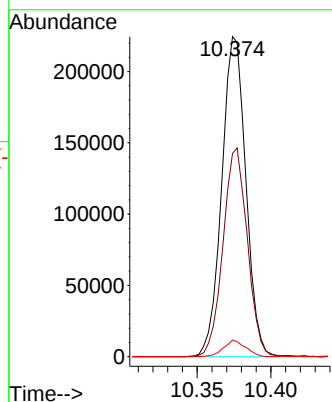
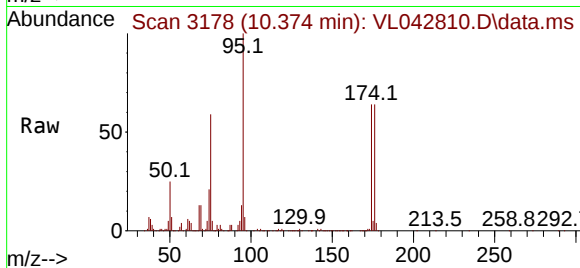




#68
1-Bromo-4-Fluorobenzene
Concen: 9.337 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.000 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

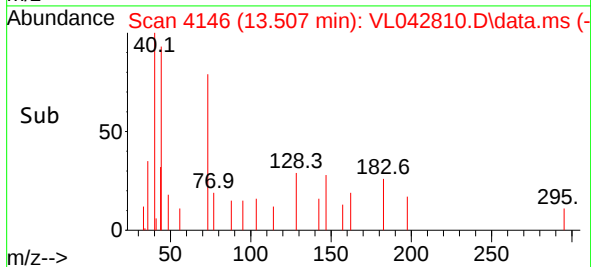
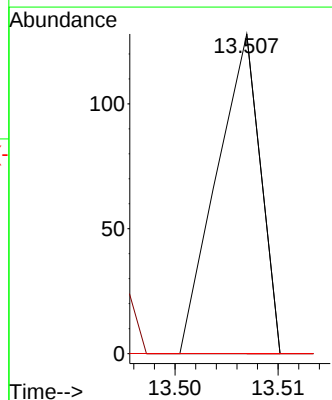
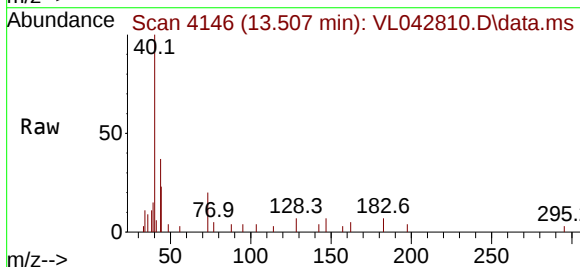
Instrument :
MSVOA_L
ClientSampleId :

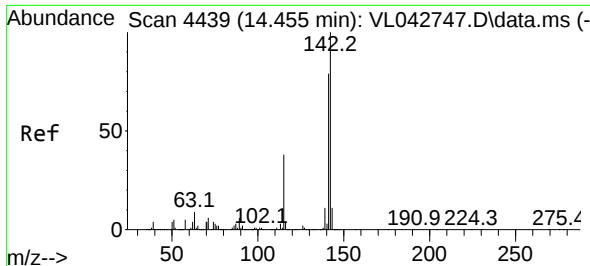
Tgt Ion: 95 Resp: 255374
Ion Ratio Lower Upper
95 100
174 66.0 53.8 80.6
175 4.8 4.0 6.0



#79
Naphthalene
Concen: 0.436 ppbv
RT: 13.507 min Scan# 4146
Delta R.T. -0.006 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Tgt Ion: 128 Resp: 38
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 0.0 8.6 13.0#

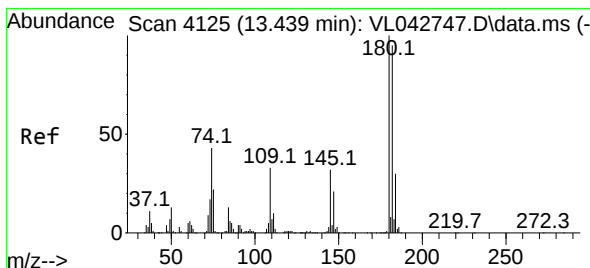
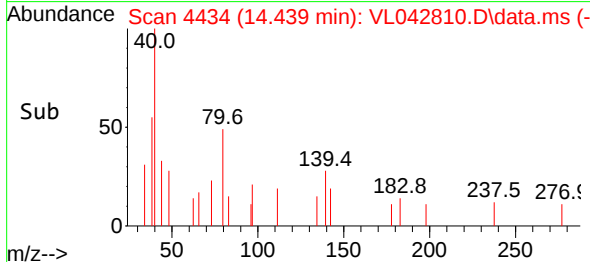
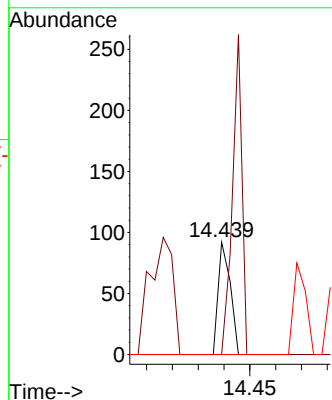
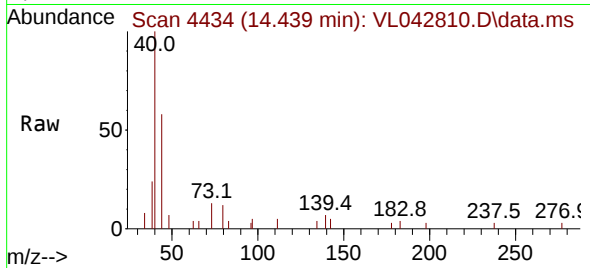




#80
Naphthalene, 2-methyl-
Concen: 1.130 ppbv
RT: 14.439 min Scan# 4439
Delta R.T. -0.016 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:142 Resp: 30
Ion Ratio Lower Upper
142 100
141 223.3 65.8 98.8#
115 0.0 31.2 46.8#



#81
1,2,4-Trichlorobenzene
Concen: 0.436 ppbv
RT: 13.488 min Scan# 4140
Delta R.T. 0.049 min
Lab File: VL042810.D
Acq: 04 Aug 2025 18:00

Tgt Ion:180 Resp: 34
Ion Ratio Lower Upper
180 100
182 0.0 76.2 114.2#
184 97.1 24.8 37.2#

