

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
 Data File : VL042812.D
 Acq On : 04 Aug 2025 19:07
 Operator : SY/MD
 Sample : Q2750-02DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 WONDER IA-3DL

Quant Time: Aug 05 01:11:15 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	2.787	49	153369	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	400688	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	343233	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	268439	9.876	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	1300	0.064	ppbv	98
3) Chlorodifluoromethane	1.473	51	261171	9.887	ppbv	99
4) Chloromethane	1.531	50	673	0.082	ppbv	90
8) Dichlorotetrafluoroethane	1.499	85	1300	0.078	ppbv #	19
9) Propene	1.557	41	69284	7.217	ppbv	100
13) Ethanol	1.722	45	489435	699.002	ppbv	90
15) Acetone	1.835	43	331492	15.653	ppbv	99
16) 1,3-Butadiene	1.560	39	33440	3.702	ppbv #	17
17) tert-Butyl alcohol	1.907	59	1064218	55.717	ppbv #	94
19) Isopropyl Alcohol	1.907	45	6769947	601.550	ppbv #	41
20) Methylene Chloride	2.062	84	2379	0.356	ppbv	89
21) Allyl Chloride	1.907	41	2233982	171.157	ppbv #	82
23) Vinyl Acetate	2.457	43	2052	0.080	ppbv #	59
25) Ethyl Acetate	2.839	43	19036	0.406	ppbv #	76
26) Hexane	2.826	57	1666	0.081	ppbv #	1
27) Carbon Disulfide	2.149	76	5560	0.316	ppbv #	66
29) Chloroform	2.845	83	1125	0.035	ppbv	96
34) 2-Butanone	2.560	43	2749	0.097	ppbv #	74
39) 1,2-Dichloropropane	3.955	63	103802	7.405	ppbv #	22
53) Toluene	6.923	91	1173	0.029	ppbv #	1
66) Benzyl Chloride	11.552	91	150	0.032	ppbv #	77
69) p-Isopropyltoluene	11.924	119	2314	0.035	ppbv #	76
79) Naphthalene	13.507	128	57	0.436	ppbv #	1
80) Naphthalene,2-methyl-	14.578	142	47	1.130	ppbv #	18
81) 1,2,4-Trichlorobenzene	13.445	180	50	0.437	ppbv #	12

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

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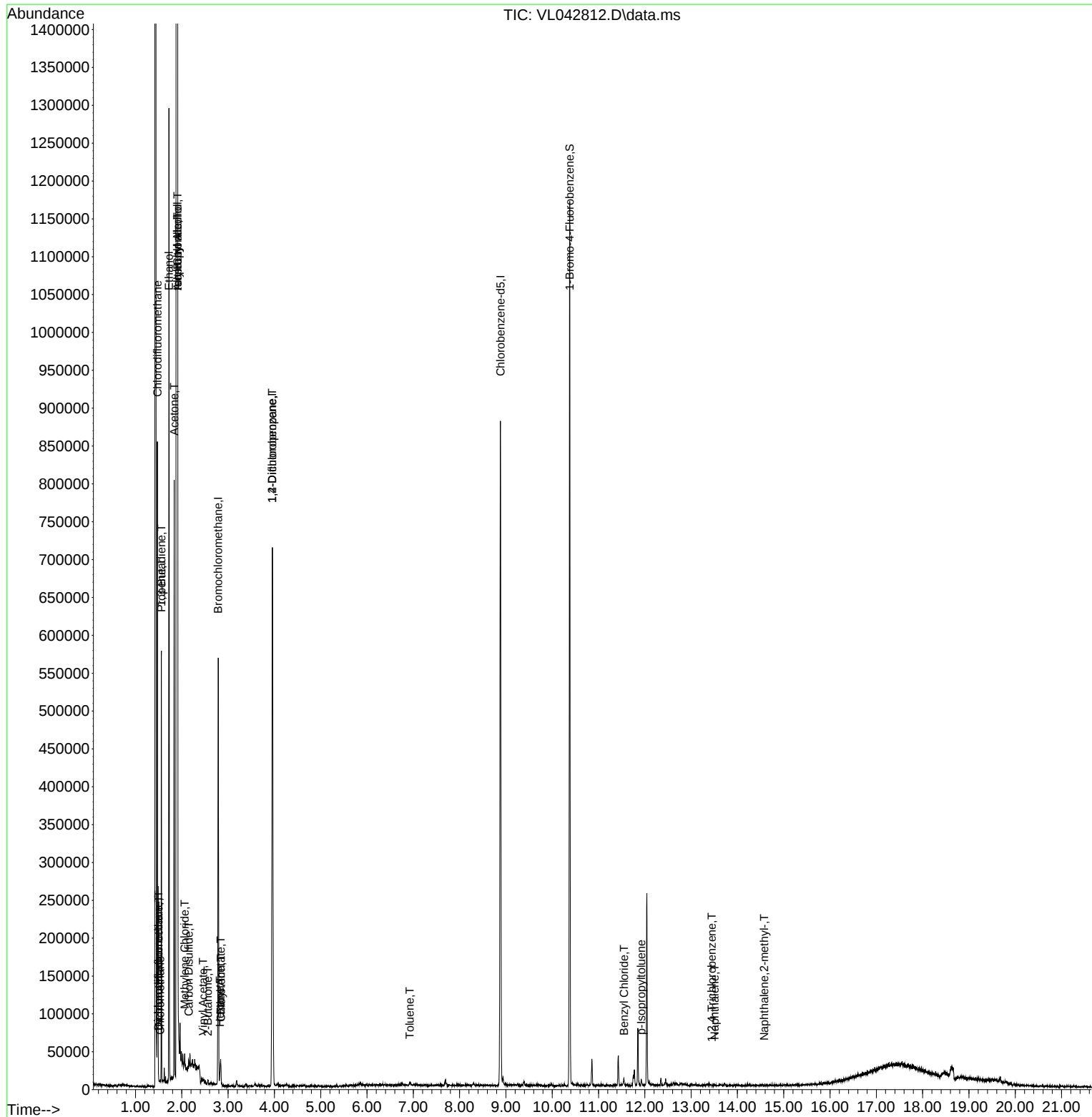
Quant Time: Aug 05 01:11:15 2025

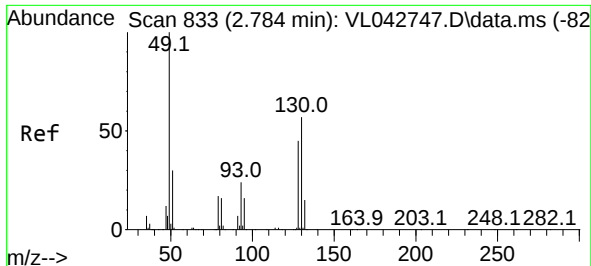
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

Response via : Initial Calibration

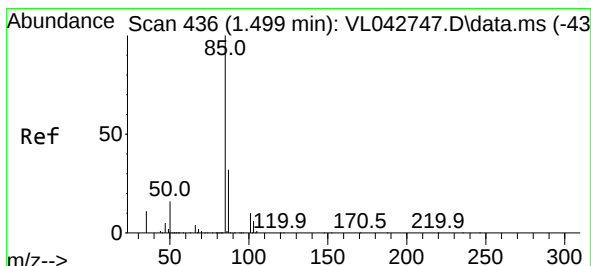
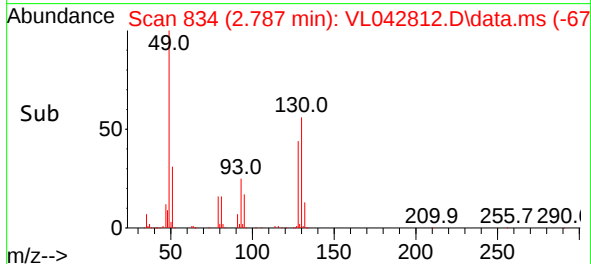
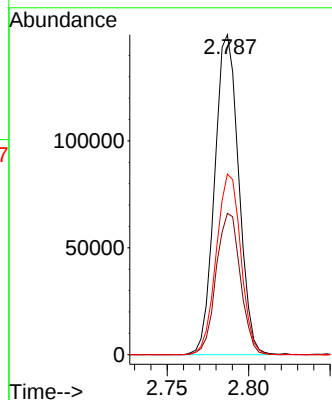
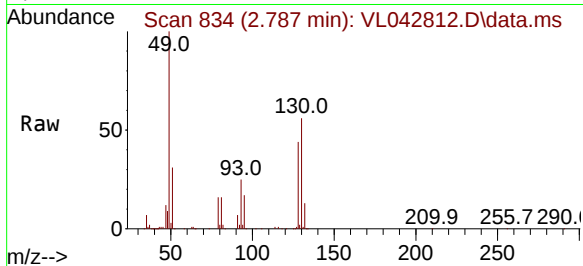




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.787 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VL042812.D
 Acq: 04 Aug 2025 19:07

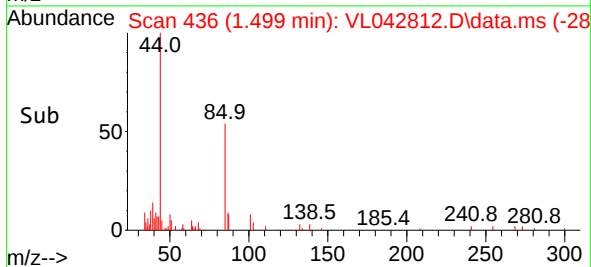
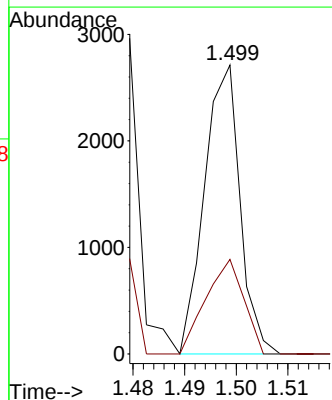
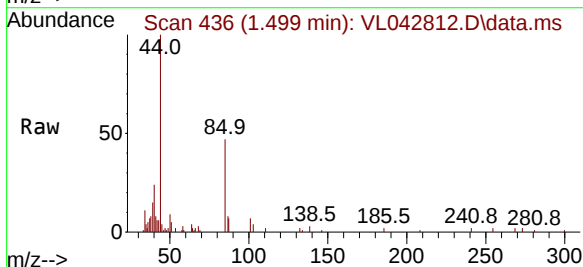
Instrument :
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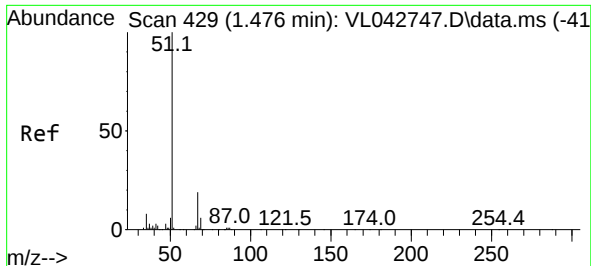
Tgt Ion: 49 Resp: 153369
 Ion Ratio Lower Upper
 49 100
 128 44.7 23.6 71.0
 130 57.7 30.3 90.8



#2
 Dichlorodifluoromethane
 Concen: 0.064 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. -0.000 min
 Lab File: VL042812.D
 Acq: 04 Aug 2025 19:07

Tgt Ion: 85 Resp: 1300
 Ion Ratio Lower Upper
 85 100
 87 32.7 25.4 38.2

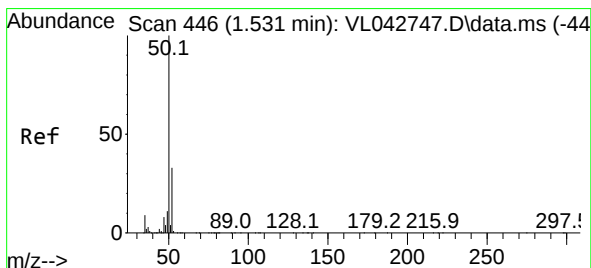
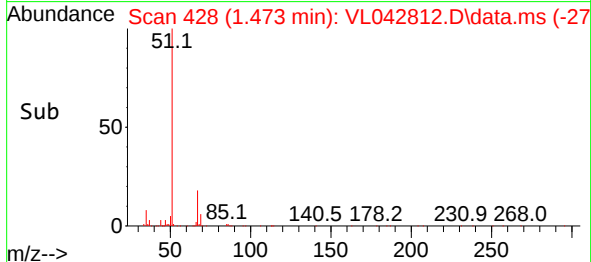
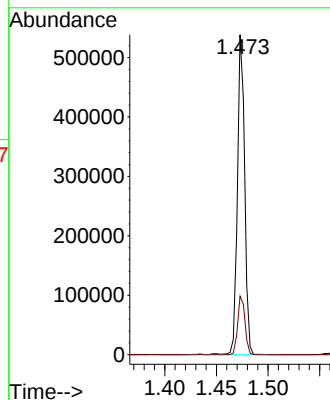
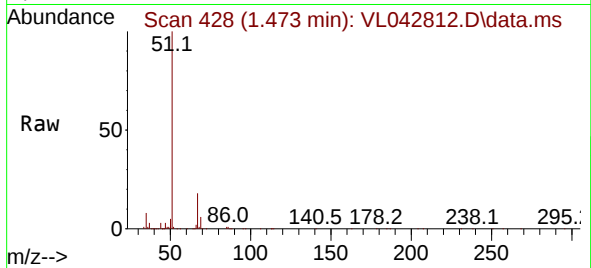




#3
Chlorodifluoromethane
Concen: 9.887 ppbv
RT: 1.473 min Scan# 429
Delta R.T. -0.003 min
Lab File: VL042812.D
Acq: 04 Aug 2025 19:07

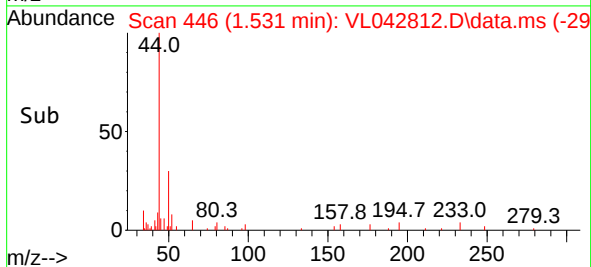
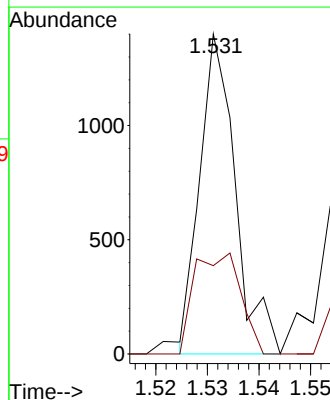
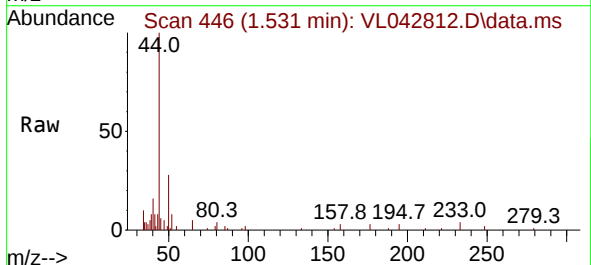
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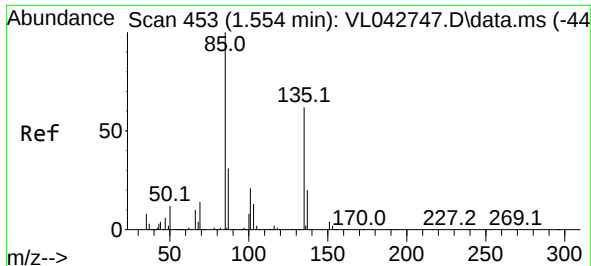
Tgt Ion: 51 Resp: 261171
Ion Ratio Lower Upper
51 100
67 18.3 15.0 22.6



#4
Chloromethane
Concen: 0.082 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042812.D
Acq: 04 Aug 2025 19:07

Tgt Ion: 50 Resp: 673
Ion Ratio Lower Upper
50 100
52 27.6 26.6 40.0

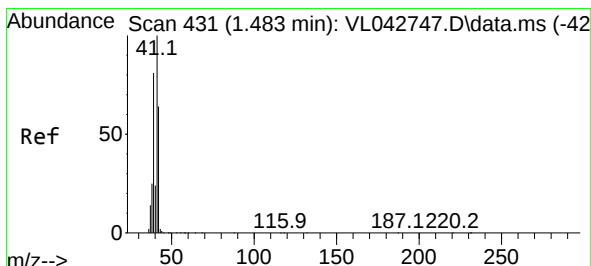
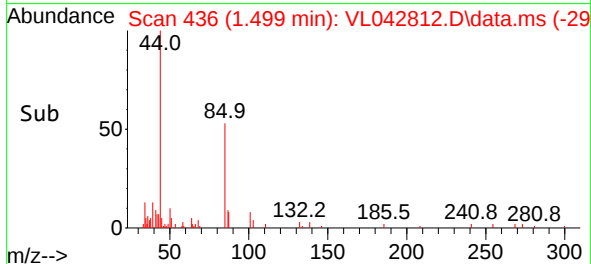
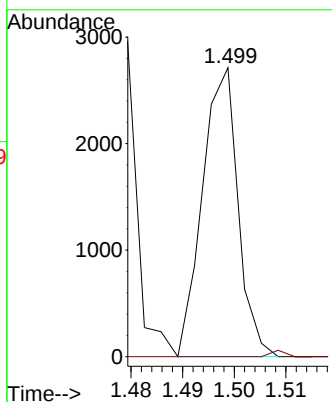
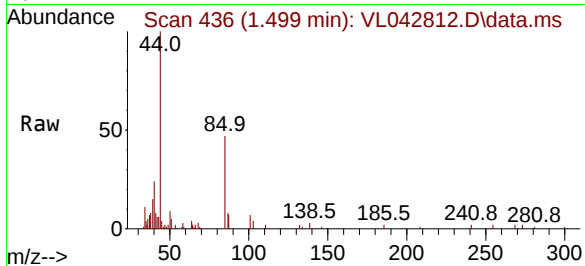




#8
Dichlorotetrafluoroethane
Concen: 0.078 ppbv
RT: 1.499 min Scan# 41
Delta R.T. -0.055 min
Lab File: VL042812.D
Acq: 04 Aug 2025 19:07

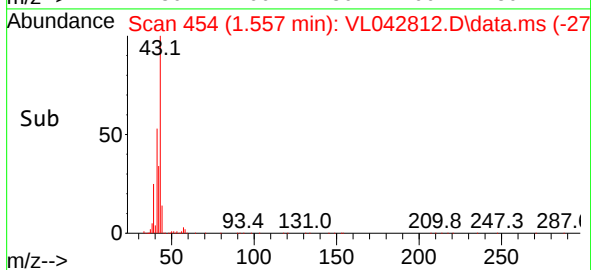
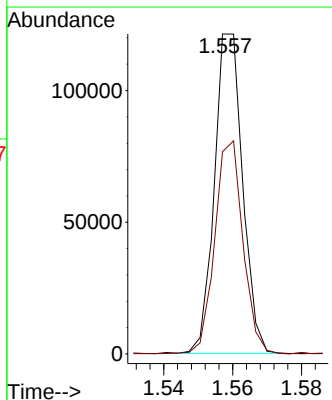
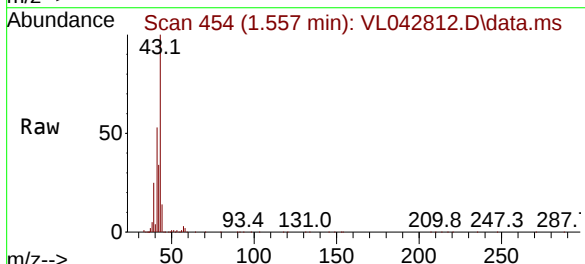
Instrument :
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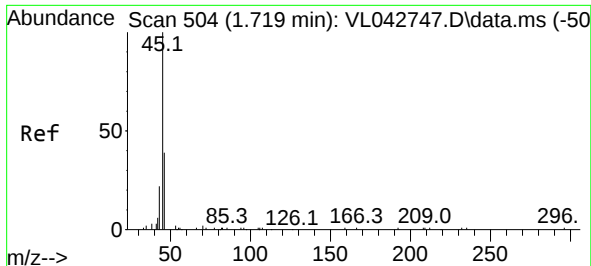
Tgt Ion: 85 Resp: 1300
Ion Ratio Lower Upper
85 100
135 0.0 50.6 76.0#



#9
Propene
Concen: 7.217 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.074 min
Lab File: VL042812.D
Acq: 04 Aug 2025 19:07

Tgt Ion: 41 Resp: 69284
Ion Ratio Lower Upper
41 100
42 66.3 53.2 79.8

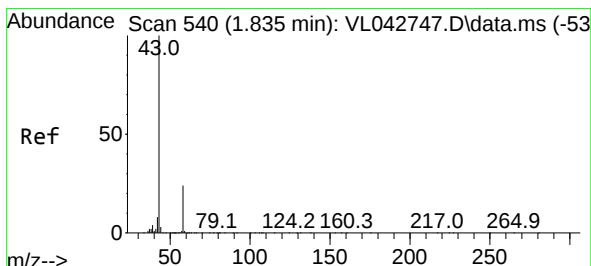
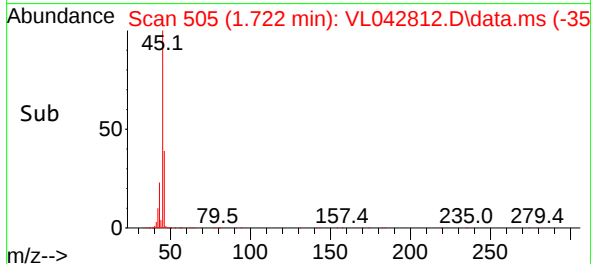
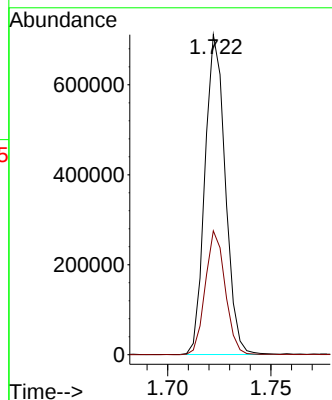
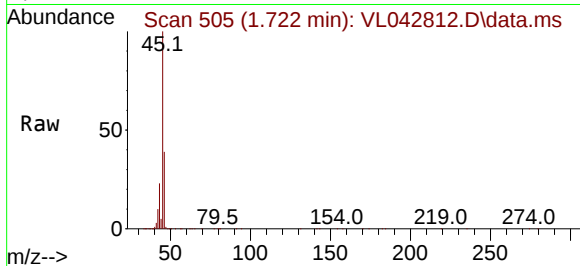




#13
Ethanol
Concen: 699.002 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042812.D
Acq: 04 Aug 2025 19:07

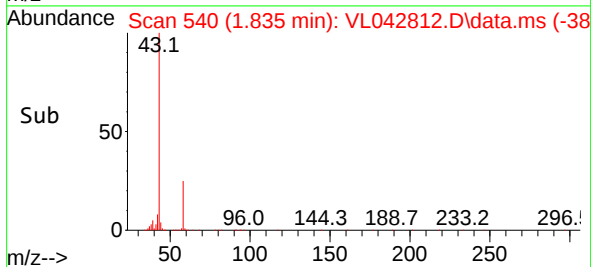
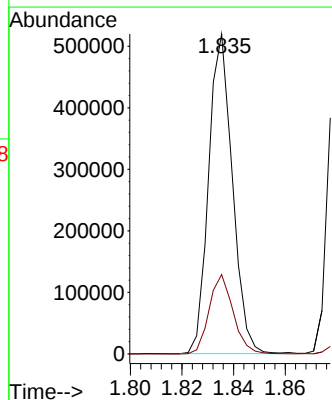
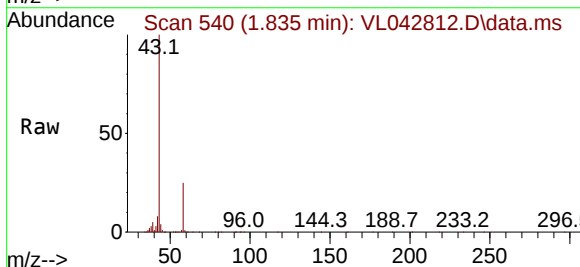
Instrument :
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ClientSampleId :
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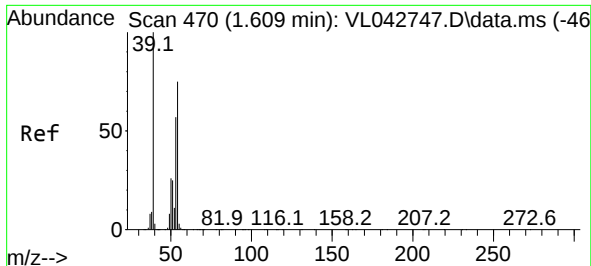
Tgt Ion: 45 Resp: 489435
Ion Ratio Lower Upper
45 100
46 38.2 17.8 71.4



#15
Acetone
Concen: 15.653 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042812.D
Acq: 04 Aug 2025 19:07

Tgt Ion: 43 Resp: 331492
Ion Ratio Lower Upper
43 100
58 25.1 19.8 29.8

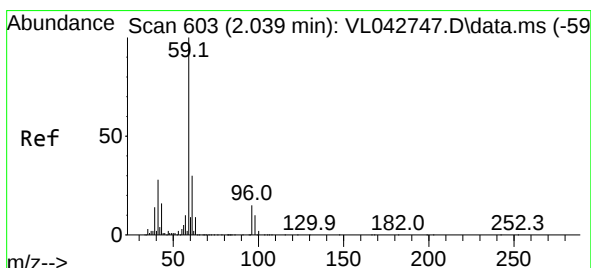
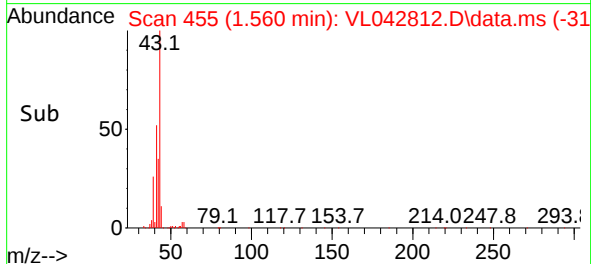
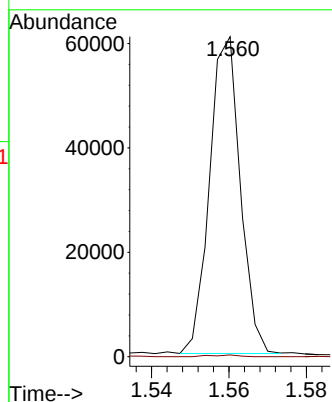
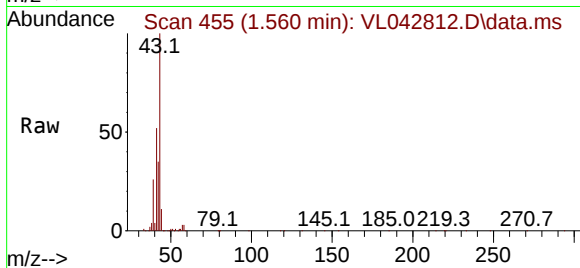




#16
1,3-Butadiene
Concen: 3.702 ppbv
RT: 1.560 min Scan# 41
Delta R.T. -0.049 min
Lab File: VL042812.D
Acq: 04 Aug 2025 19:07

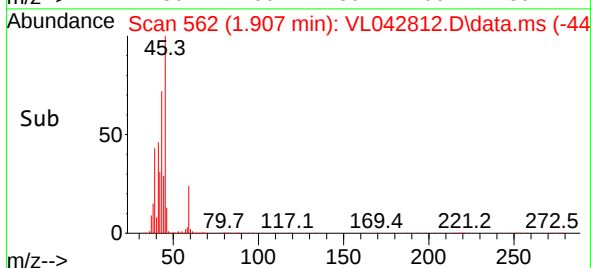
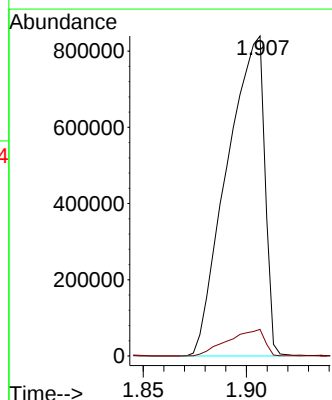
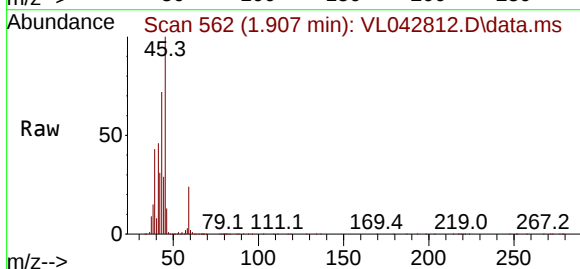
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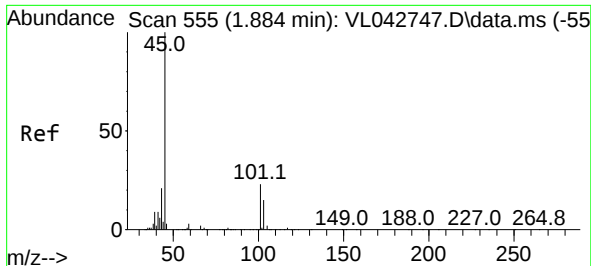
Tgt Ion: 39 Resp: 33440
Ion Ratio Lower Upper
39 100
54 0.6 54.5 81.7#



#17
tert-Butyl alcohol
Concen: 55.717 ppbv
RT: 1.907 min Scan# 562
Delta R.T. -0.133 min
Lab File: VL042812.D
Acq: 04 Aug 2025 19:07

Tgt Ion: 59 Resp: 1064218
Ion Ratio Lower Upper
59 100
57 8.1 8.3 12.5#

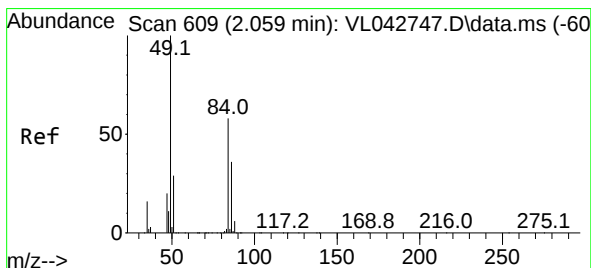
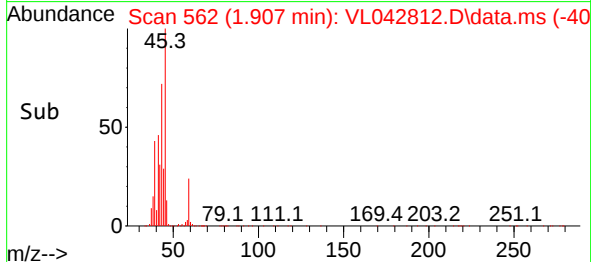
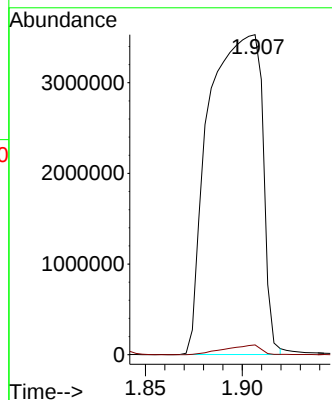
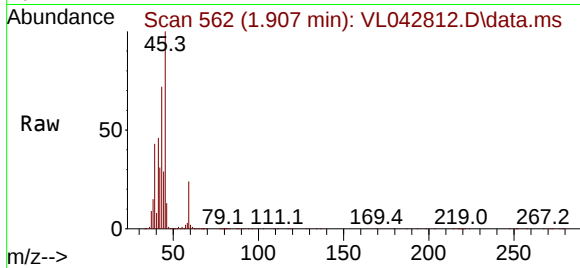




#19
Isopropyl Alcohol
Concen: 601.550 ppbv
RT: 1.907 min Scan# 50
Delta R.T. 0.023 min
Lab File: VL042812.D
Acq: 04 Aug 2025 19:07

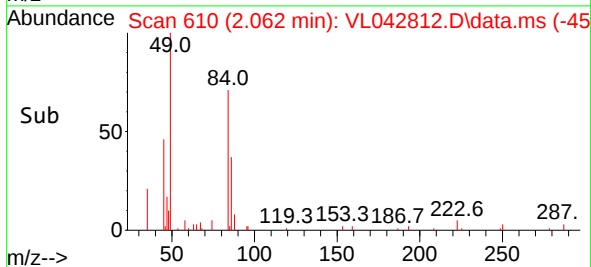
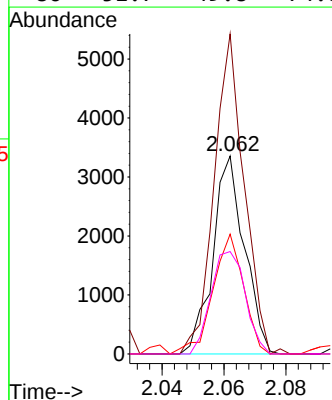
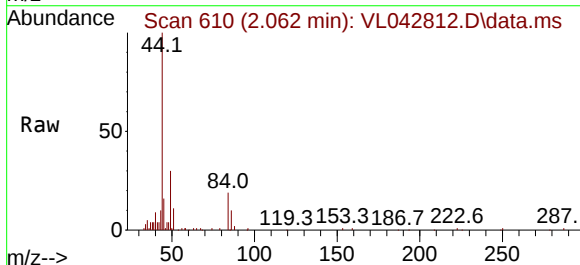
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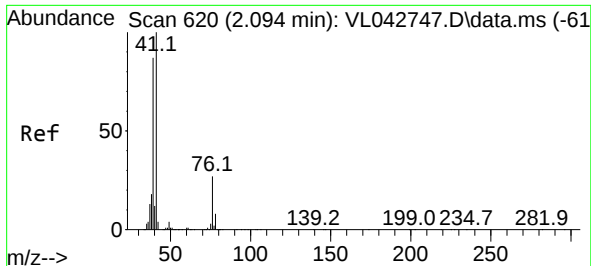
Tgt Ion: 45 Resp: 6769947
Ion Ratio Lower Upper
45 100
58 2.1 30.0 45.0#



#20
Methylene Chloride
Concen: 0.356 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042812.D
Acq: 04 Aug 2025 19:07

Tgt Ion: 84 Resp: 2379
Ion Ratio Lower Upper
84 100
49 161.7 138.6 208.0
51 60.5 40.6 61.0
86 51.7 49.8 74.8

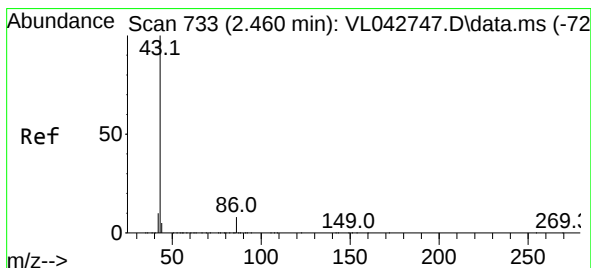
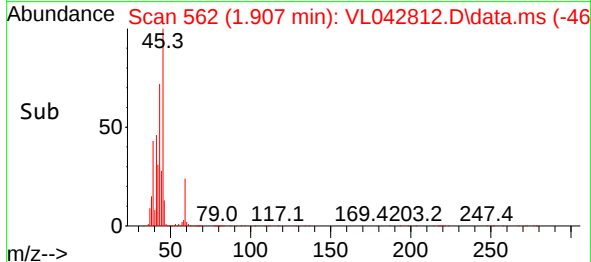
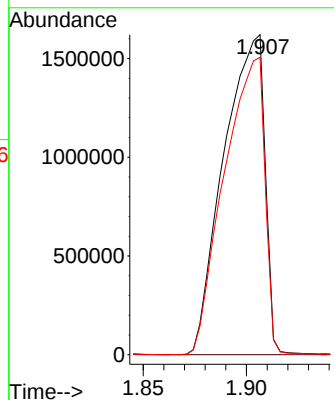
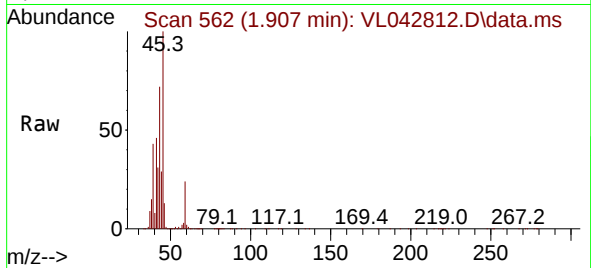




#21
 Allyl Chloride
 Concen: 171.157 ppbv
 RT: 1.907 min Scan# 50
 Delta R.T. -0.188 min
 Lab File: VL042812.D
 Acq: 04 Aug 2025 19:07

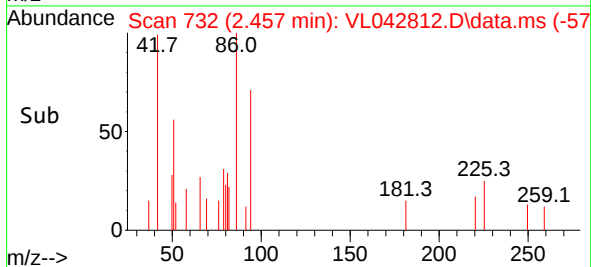
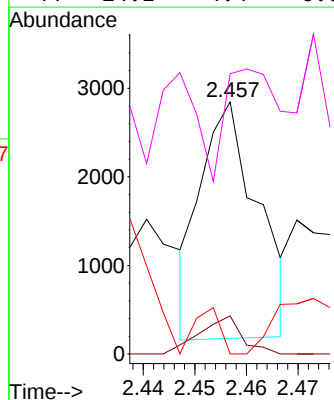
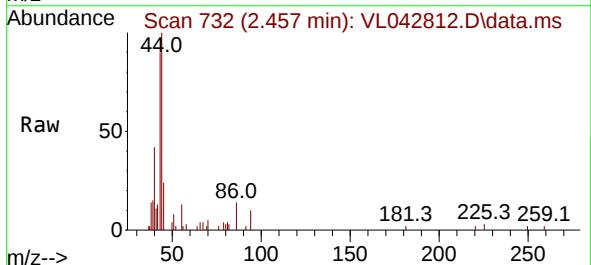
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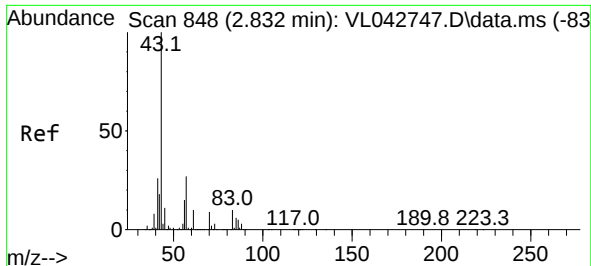
Tgt Ion: 41 Resp: 2233982
 Ion Ratio Lower Upper
 41 100
 76 0.0 21.1 31.7#
 39 92.0 68.3 102.5



#23
 Vinyl Acetate
 Concen: 0.080 ppbv
 RT: 2.457 min Scan# 732
 Delta R.T. -0.003 min
 Lab File: VL042812.D
 Acq: 04 Aug 2025 19:07

Tgt Ion: 43 Resp: 2052
 Ion Ratio Lower Upper
 43 100
 86 24.5 6.1 9.1#
 42 0.0 7.8 11.8#
 44 24.1 4.4 6.6#

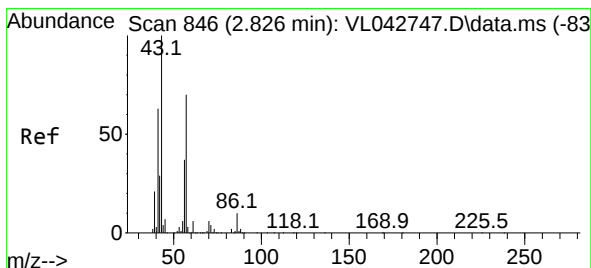
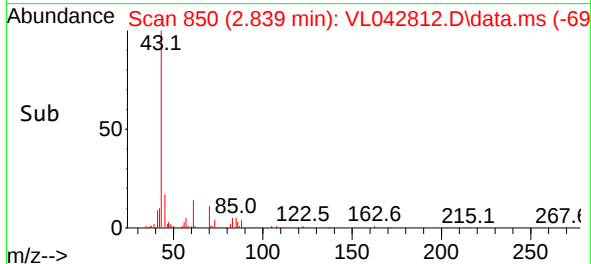
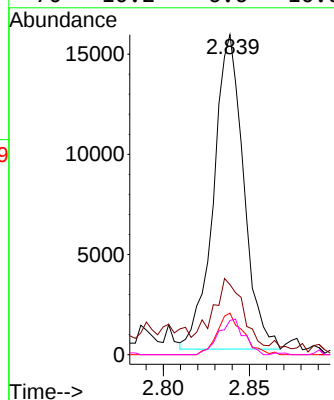
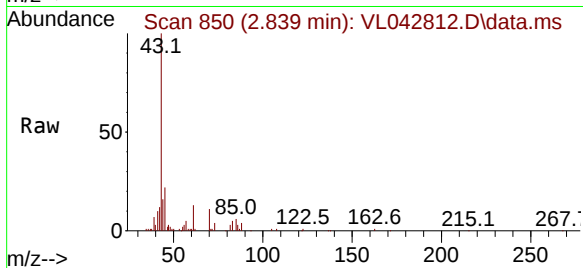




#25
Ethyl Acetate
Concen: 0.406 ppbv
RT: 2.839 min Scan# 848
Delta R.T. 0.006 min
Lab File: VL042812.D
Acq: 04 Aug 2025 19:07

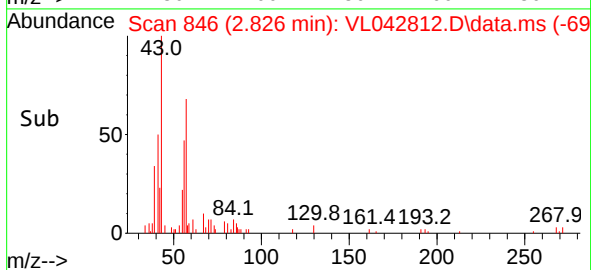
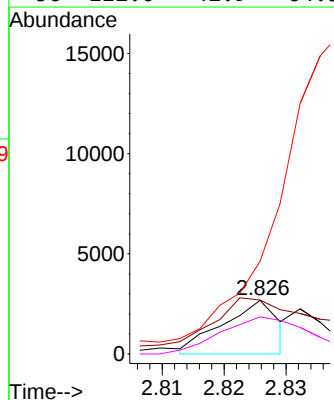
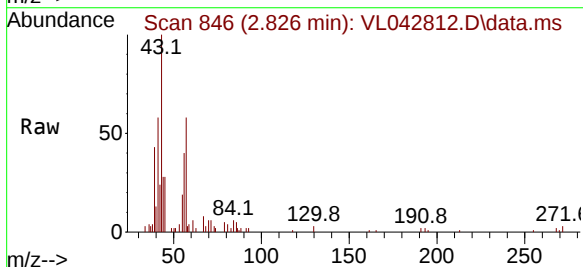
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3DL

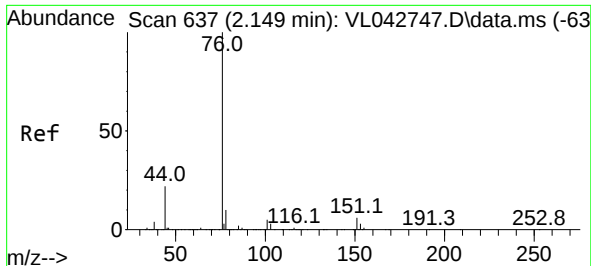
Tgt Ion: 43	Resp: 19036
Ion Ratio	Lower Upper
43 100	
45 29.4	7.8 11.6#
61 11.5	6.7 10.1#
70 10.2	6.6 10.0#



#26
Hexane
Concen: 0.081 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042812.D
Acq: 04 Aug 2025 19:07

Tgt Ion: 57	Resp: 1666
Ion Ratio	Lower Upper
57 100	
41 304.8	75.4 113.2#
43 0.0	185.0 277.6#
56 112.0	42.9 64.3#





#27

Carbon Disulfide

Concen: 0.316 ppbv

RT: 2.149 min Scan# 61

Delta R.T. -0.000 min

Lab File: VL042812.D

Acq: 04 Aug 2025 19:07

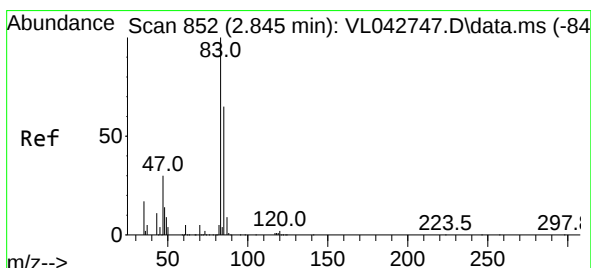
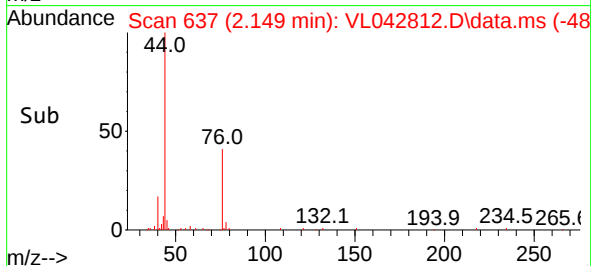
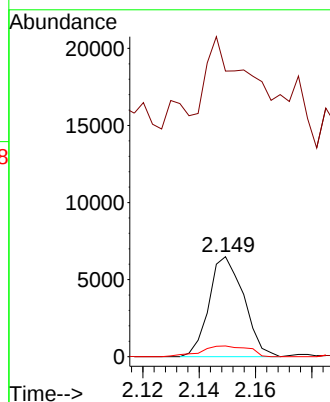
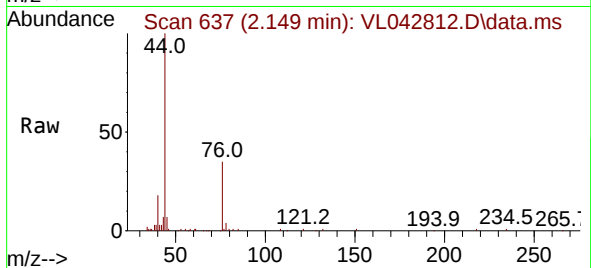
Instrument :

MSVOA_L

ClientSampleId :

WONDER IA-3DL

Tgt Ion:	76	Resp:	5560
Ion Ratio	Lower	Upper	
76	100		
44	0.0	19.3	28.9#
78	14.8	9.9	14.9



#29

Chloroform

Concen: 0.035 ppbv

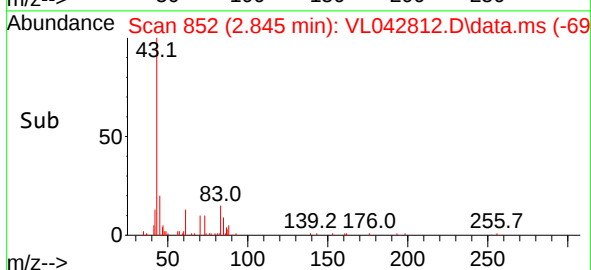
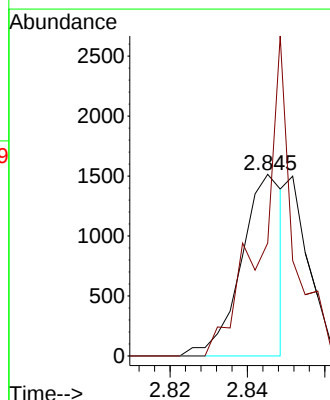
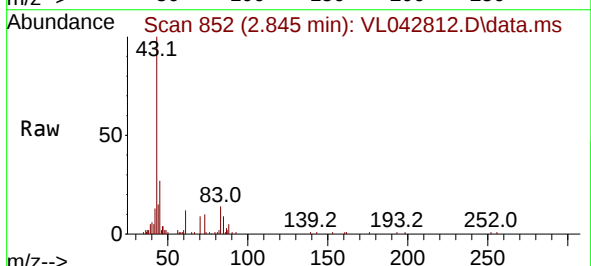
RT: 2.845 min Scan# 852

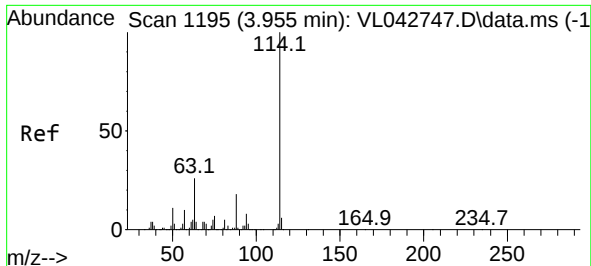
Delta R.T. -0.000 min

Lab File: VL042812.D

Acq: 04 Aug 2025 19:07

Tgt Ion:	83	Resp:	1125
Ion Ratio	Lower	Upper	
83	100		
85	62.2	52.2	78.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.000 min

Lab File: VL042812.D

Acq: 04 Aug 2025 19:07

Instrument :

MSVOA_L

ClientSampleId :

WONDER IA-3DL

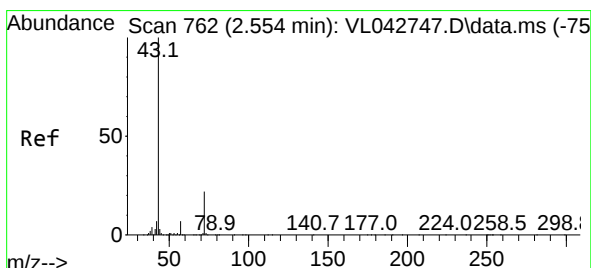
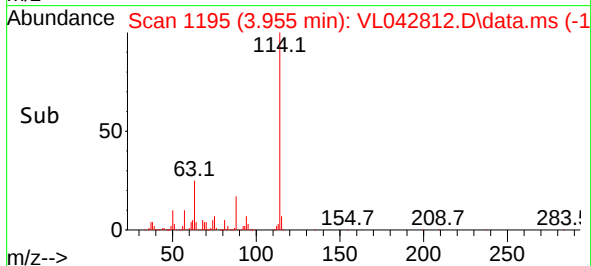
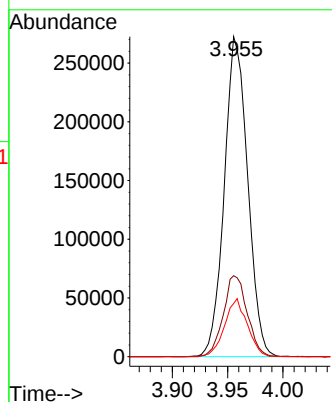
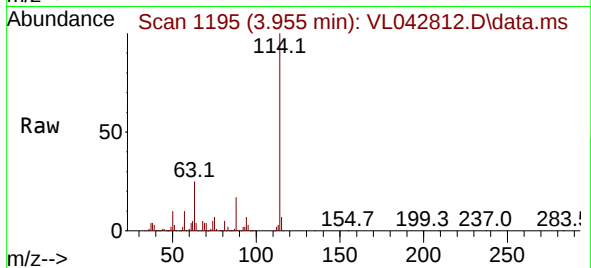
Tgt Ion:114 Resp: 400688

Ion Ratio Lower Upper

114 100

63 25.9 20.5 30.7

88 17.6 14.0 21.0



#34

2-Butanone

Concen: 0.097 ppbv

RT: 2.560 min Scan# 764

Delta R.T. 0.006 min

Lab File: VL042812.D

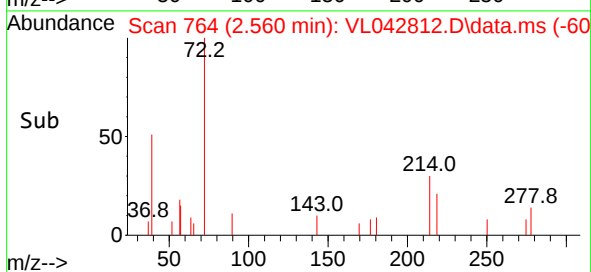
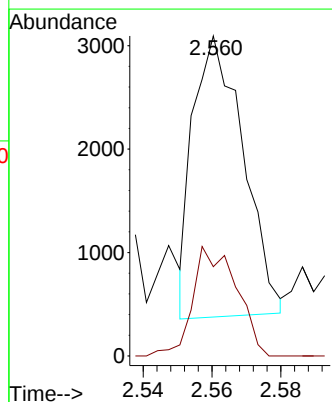
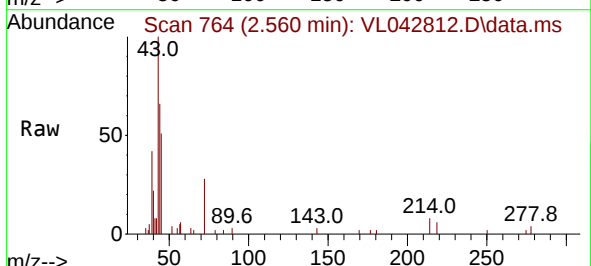
Acq: 04 Aug 2025 19:07

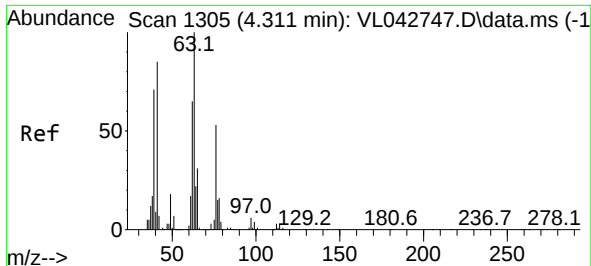
Tgt Ion: 43 Resp: 2749

Ion Ratio Lower Upper

43 100

72 34.0 17.4 26.0#





#39

1,2-Dichloropropane

Concen: 7.405 ppbv

RT: 3.955 min Scan# 1119

Delta R.T. -0.356 min

Lab File: VL042812.D

Acq: 04 Aug 2025 19:07

Instrument :

MSVOA_L

ClientSampleId :

WONDER IA-3DL

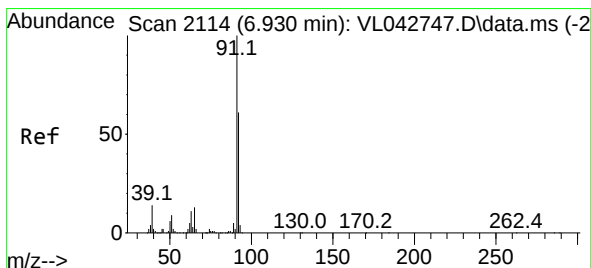
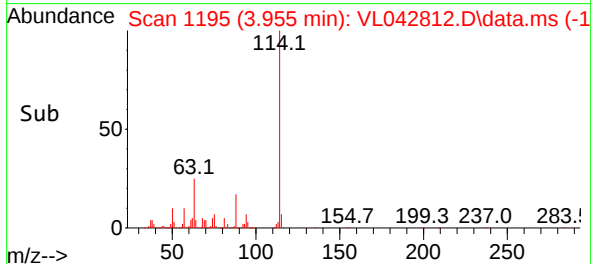
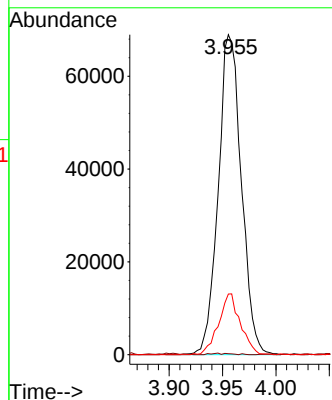
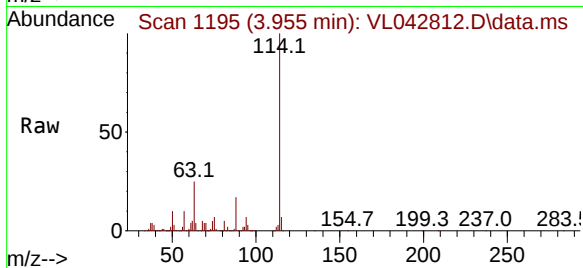
Tgt Ion: 63 Resp: 103802

Ion Ratio Lower Upper

63 100

41 0.3 68.2 102.4#

62 19.0 52.0 78.0#



#53

Toluene

Concen: 0.029 ppbv

RT: 6.923 min Scan# 2112

Delta R.T. -0.007 min

Lab File: VL042812.D

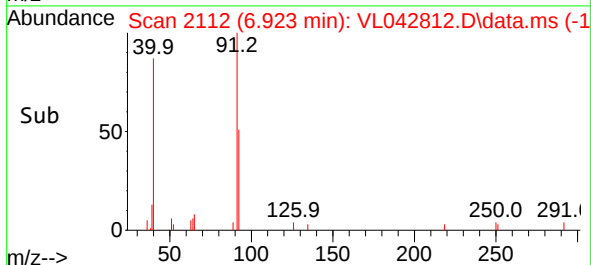
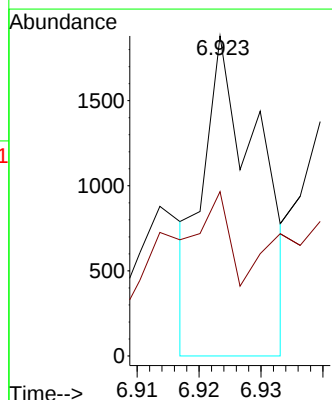
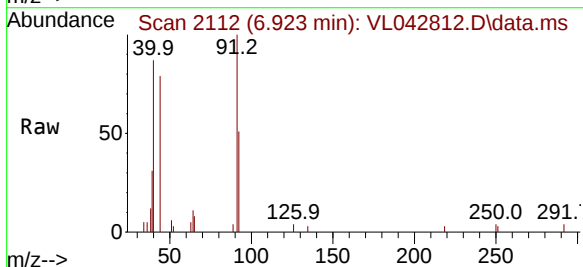
Acq: 04 Aug 2025 19:07

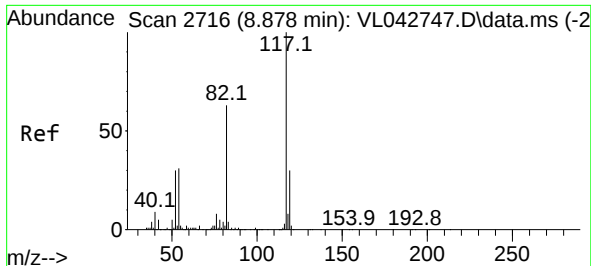
Tgt Ion: 91 Resp: 1173

Ion Ratio Lower Upper

91 100

92 146.1 48.0 72.0#

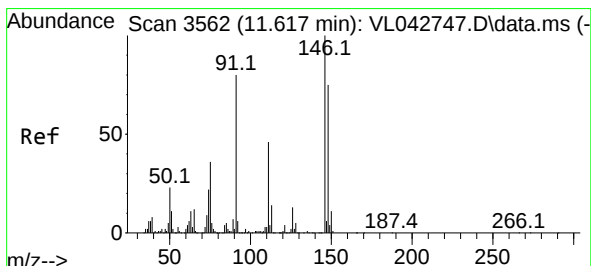
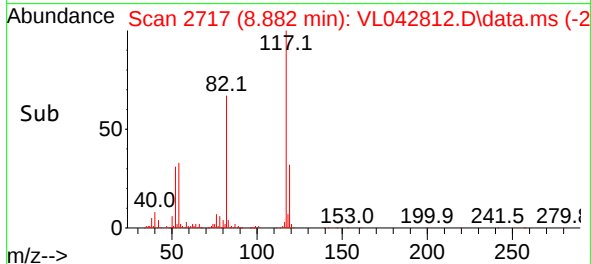
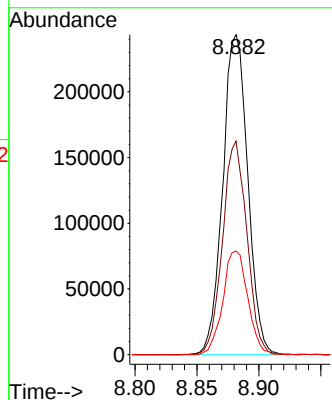
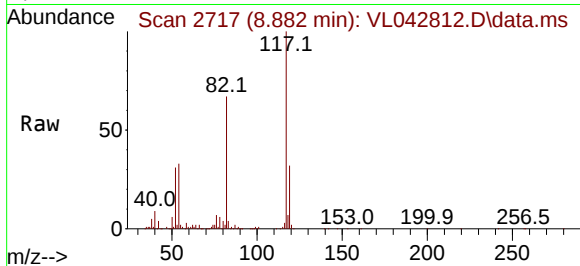




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042812.D
Acq: 04 Aug 2025 19:07

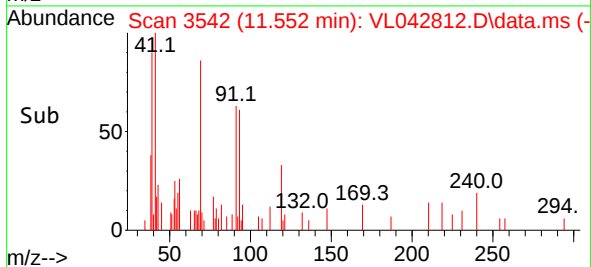
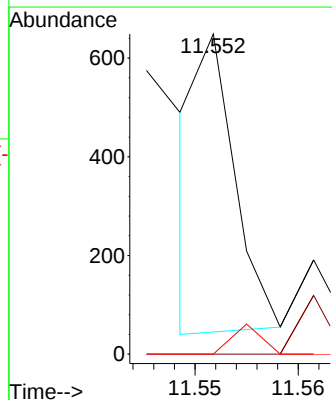
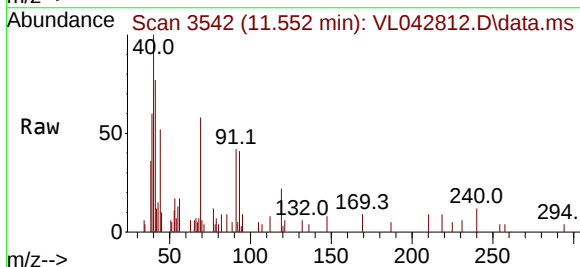
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3DL

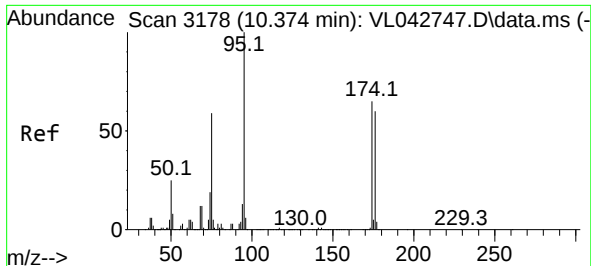
Tgt Ion:117 Resp: 343233
Ion Ratio Lower Upper
117 100
82 64.9 53.3 79.9
119 32.2 25.8 38.6



#66
Benzyl Chloride
Concen: 0.032 ppbv
RT: 11.552 min Scan# 3542
Delta R.T. -0.065 min
Lab File: VL042812.D
Acq: 04 Aug 2025 19:07

Tgt Ion: 91 Resp: 150
Ion Ratio Lower Upper
91 100
126 7.3 14.4 21.6#
128 0.0 5.2 7.8#

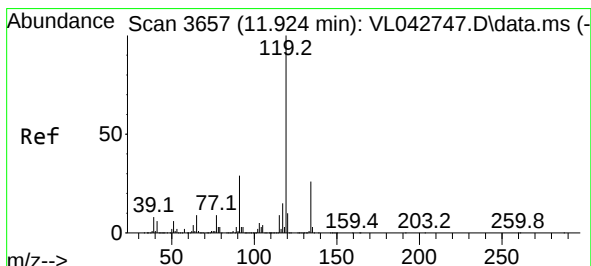
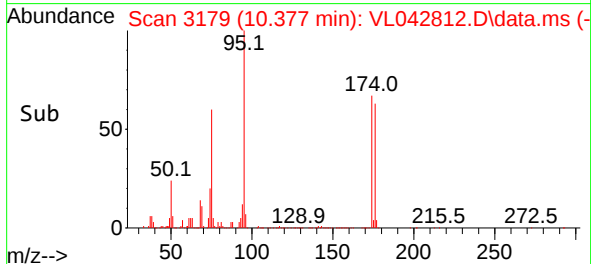
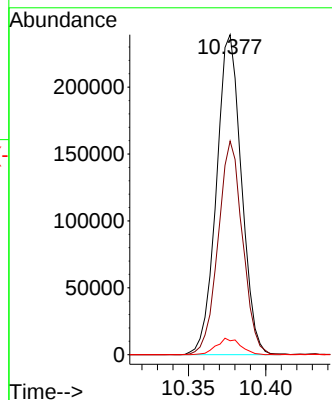
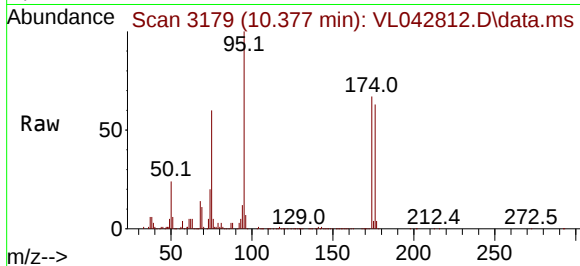




#68
1-Bromo-4-Fluorobenzene
Concen: 9.876 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.003 min
Lab File: VL042812.D
Acq: 04 Aug 2025 19:07

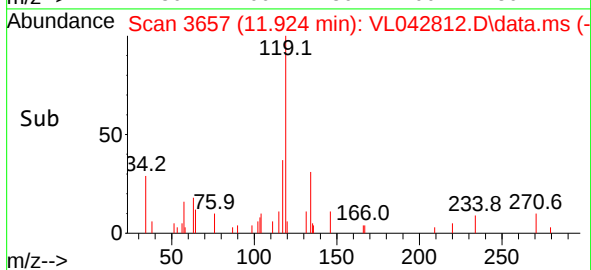
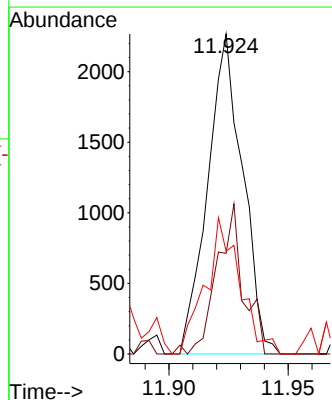
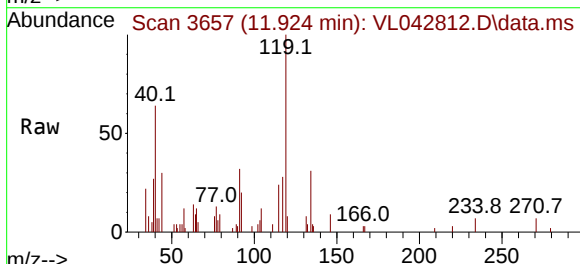
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3DL

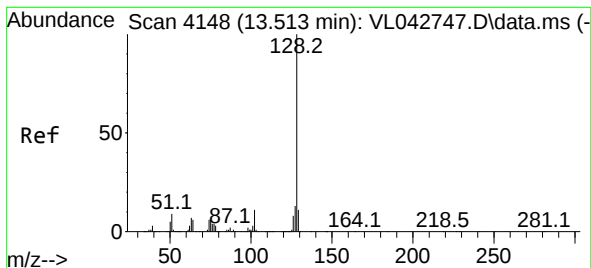
Tgt Ion: 95 Resp: 268439
Ion Ratio Lower Upper
95 100
174 65.7 53.8 80.6
175 5.0 4.0 6.0



#69
p-Isopropyltoluene
Concen: 0.035 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.000 min
Lab File: VL042812.D
Acq: 04 Aug 2025 19:07

Tgt Ion: 119 Resp: 2314
Ion Ratio Lower Upper
119 100
134 35.5 20.6 31.0#
91 44.2 23.2 34.8#





#79

Naphthalene

Concen: 0.436 ppbv

RT: 13.507 min Scan# 4146

Delta R.T. -0.007 min

Lab File: VL042812.D

Acq: 04 Aug 2025 19:07

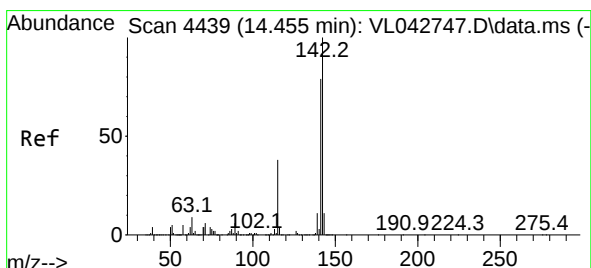
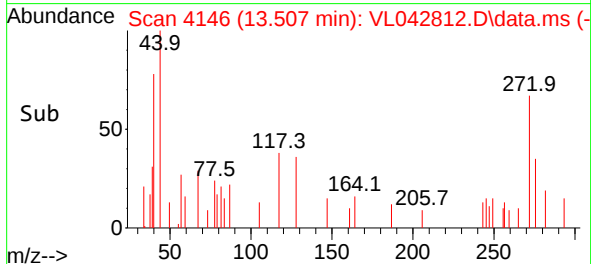
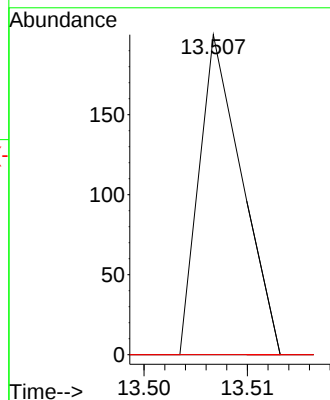
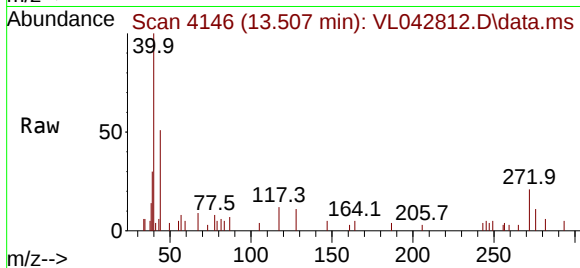
Instrument :

MSVOA_L

ClientSampleId :

WONDER IA-3DL

Tgt Ion:128	Resp:	57
Ion Ratio	Lower	Upper
128	100	
127	100.0	10.5 15.7#
129	0.0	8.6 13.0#



#80

Naphthalene,2-methyl-

Concen: 1.130 ppbv

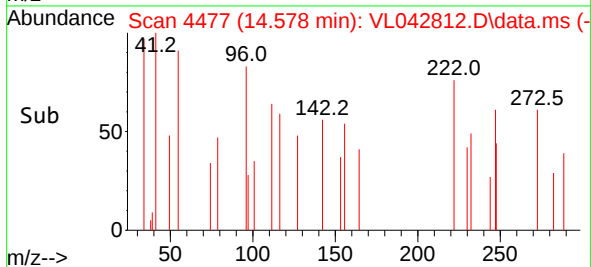
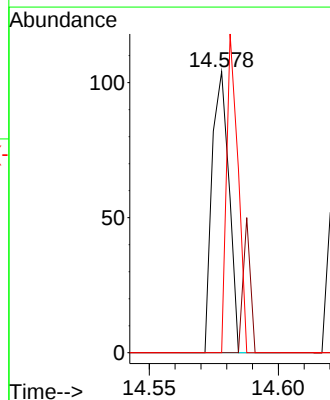
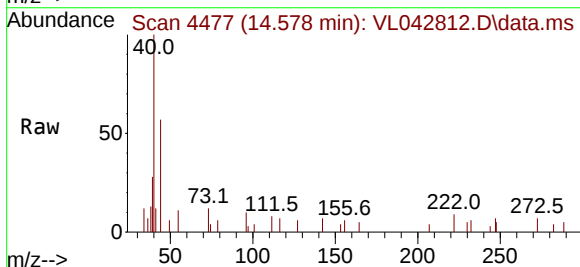
RT: 14.578 min Scan# 4477

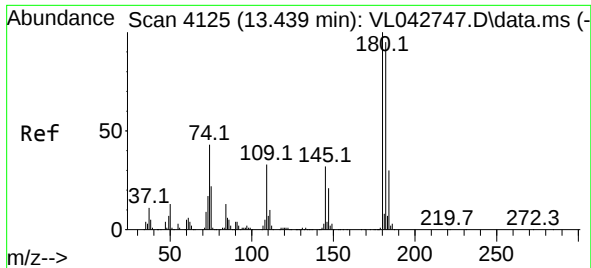
Delta R.T. 0.123 min

Lab File: VL042812.D

Acq: 04 Aug 2025 19:07

Tgt Ion:142	Resp:	47
Ion Ratio	Lower	Upper
142	100	
141	0.0	65.8 98.8#
115	76.6	31.2 46.8#





#81

1,2,4-Trichlorobenzene

Concen: 0.437 ppbv

RT: 13.445 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL042812.D

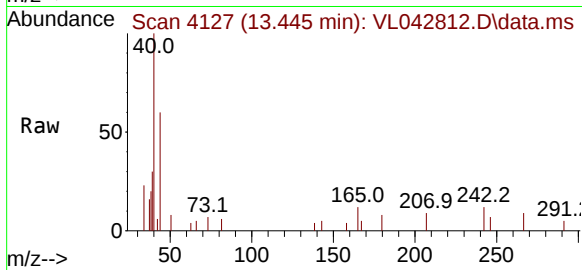
Acq: 04 Aug 2025 19:07

Instrument :

MSVOA_L

ClientSampleId :

WONDER IA-3DL



Tgt Ion:180 Resp: 50

Ion Ratio Lower Upper

180 100

182 0.0 76.2 114.2#

184 0.0 24.8 37.2#

