

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
 Data File : VL042803.D
 Acq On : 04 Aug 2025 14:03
 Operator : SY/MD
 Sample : Q2750-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 WONDER IA-5

Quant Time: Aug 05 01:05:04 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	164794	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	474917	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	410663	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	346200	10.645	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.500%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.473	85	30771	1.412	ppbv	99
3) Chlorodifluoromethane	1.473	51	1564377	55.117	ppbv #	84
4) Chloromethane	1.528	50	5862	0.665	ppbv	98
5) Vinyl Chloride	1.483	62	1347	0.155	ppbv #	44
6) Bromomethane	1.661	94	157	0.047	ppbv #	1
7) Chloroethane	1.493	64	2266	0.673	ppbv #	81
8) Dichlorotetrafluoroethane	1.496	85	11720	0.654	ppbv #	21
9) Propene	1.557	41	499035	48.376	ppbv	95
10) Heptane	4.985	43	2081	0.075	ppbv #	1
11) Trichlorofluoromethane	1.875	101	4804	0.214	ppbv	85
12) 1,1,2-Trichlorotrifluo...	2.134	101	1324	0.078	ppbv	92
13) Ethanol	1.726	45	4625427	6156.946	ppbv	93
15) Acetone	1.833	43	2183939	95.974	ppbv #	80
16) 1,3-Butadiene	1.557	39	242347	24.968	ppbv #	16
17) tert-Butyl alcohol	1.988	59	3769753	183.683	ppbv #	73
19) Isopropyl Alcohol	1.939	45	14315907	1183.864	ppbv #	47
20) Methylene Chloride	2.062	84	58902	8.214	ppbv	95
21) Allyl Chloride	1.985	41	13242426	944.233	ppbv #	78
23) Vinyl Acetate	2.839	43	241999	8.772	ppbv #	91
25) Ethyl Acetate	2.839	43	241999	4.805	ppbv #	71
26) Hexane	2.823	57	145822	6.600	ppbv	96
27) Carbon Disulfide	2.147	76	60059	3.175	ppbv #	65
28) Methyl tert-Butyl Ether	2.441	73	223	0.021	ppbv #	50
29) Chloroform	2.849	83	18805	0.551	ppbv	99
30) Cyclohexane	3.852	84	1053	0.056	ppbv #	1
31) cis-1,2-Dichloroethene	2.839	61	26136	1.151	ppbv #	23
34) 2-Butanone	2.564	43	39111	1.163	ppbv	99
35) Carbon Tetrachloride	3.762	117	773	0.022	ppbv #	19
36) Benzene	3.655	78	11806	0.262	ppbv #	91
39) 1,2-Dichloropropane	3.956	63	119264	7.178	ppbv #	21
41) Tetrahydrofuran	3.069	42	2749	0.161	ppbv #	77
42) Bromodichloromethane	4.487	83	1371	0.039	ppbv #	67
43) Methyl Methacrylate	4.878	69	498	0.031	ppbv #	1
44) 2,2,4-Trimethylpentane	4.645	57	1752	0.024	ppbv #	1
51) 2-Hexanone	7.442	43	657	0.020	ppbv #	30
53) Toluene	6.927	91	39418	0.816	ppbv	99
58) Ethyl Benzene	9.348	91	2759	0.043	ppbv	92
59) m/p-Xylene	9.552	91	1861	0.036	ppbv #	30
60) o-Xylene	9.960	91	4662	0.090	ppbv	92
61) Styrene	9.872	104	2703	0.124	ppbv #	47
64) n-propylbenzene	10.986	120	692	0.035	ppbv	72
65) tert-Butylbenzene	11.539	119	2513	0.037	ppbv #	1
66) Benzyl Chloride	11.546	91	13242	2.377	ppbv #	66

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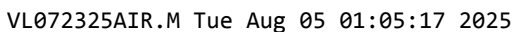
Quant Time: Aug 05 01:05:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

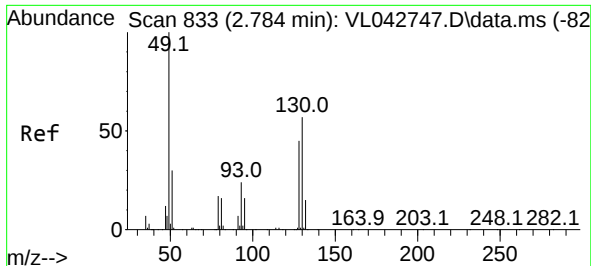
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

67) sec-Butylbenzene	11.850	105	40708	0.422	ppbv	99
69) p-Isopropyltoluene	11.924	119	50306	0.639	ppbv	99
70) n-Butylbenzene	12.345	91	19680	0.259	ppbv #	84
72) 4-Ethyltoluene	11.125	105	2403	0.039	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.203	105	1469	0.029	ppbv	87
74) 1,2,4-Trimethylbenzene	11.533	105	9966	0.179	ppbv #	83
76) 1,4-Dichlorobenzene	11.669	146	2292	0.060	ppbv #	84
77) 1,2-Dichlorobenzene	11.669	146	2292	0.060	ppbv	95
79) Naphthalene	13.510	128	2763	0.479	ppbv #	95
80) Naphthalene,2-methyl-	14.452	142	14	1.129	ppbv #	1
81) 1,2,4-Trichlorobenzene	13.446	180	38	0.436	ppbv #	12

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

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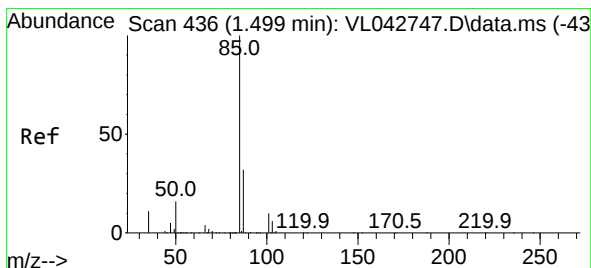
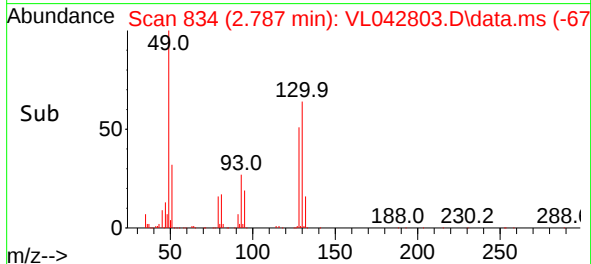
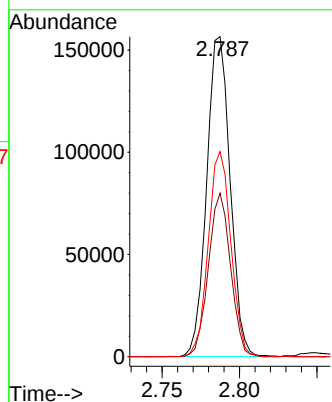
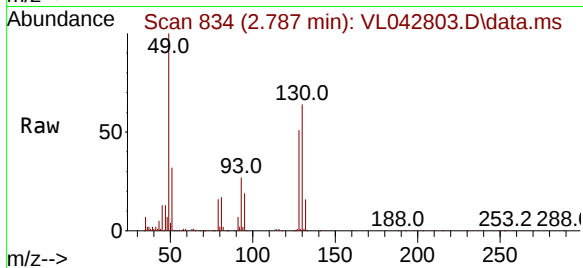




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

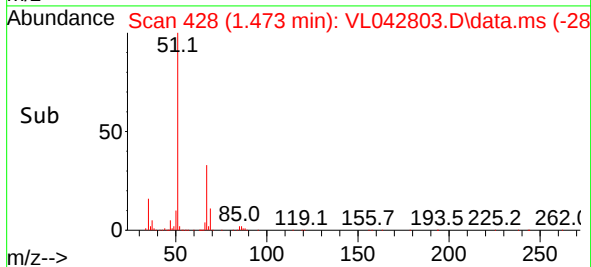
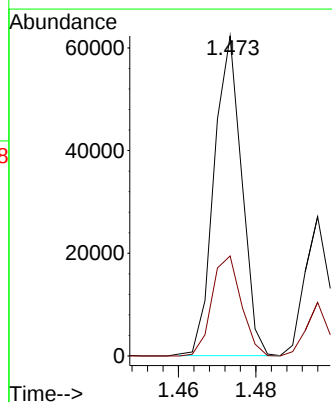
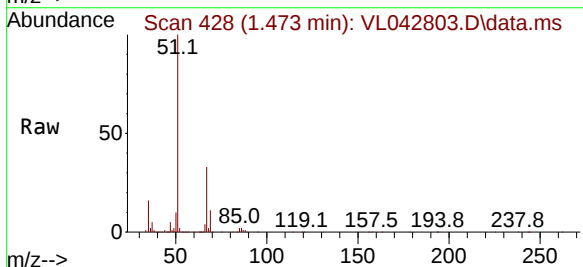
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

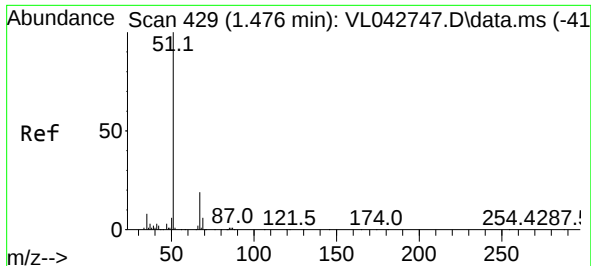
Tgt Ion: 49 Resp: 164794
Ion Ratio Lower Upper
49 100
128 48.2 23.6 71.0
130 61.9 30.3 90.8



#2
Dichlorodifluoromethane
Concen: 1.412 ppbv
RT: 1.473 min Scan# 428
Delta R.T. -0.026 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 85 Resp: 30771
Ion Ratio Lower Upper
85 100
87 31.3 25.4 38.2

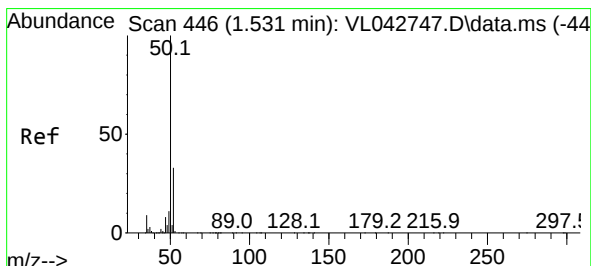
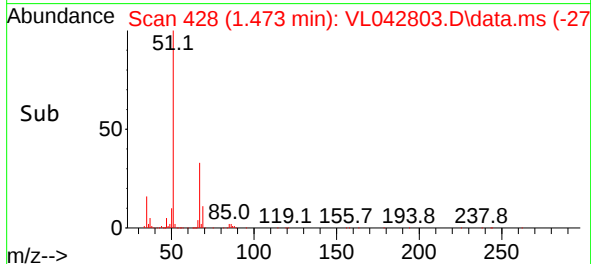
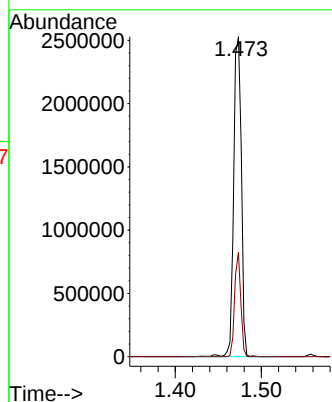
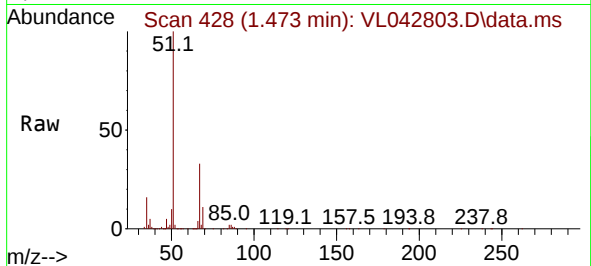




#3
Chlorodifluoromethane
Concen: 55.117 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

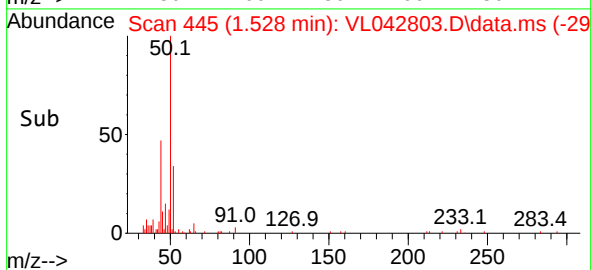
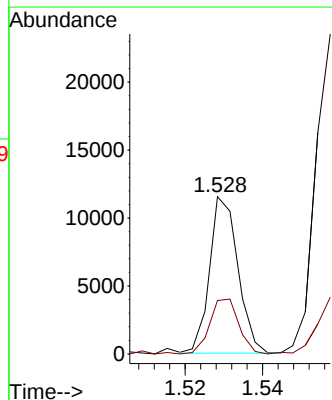
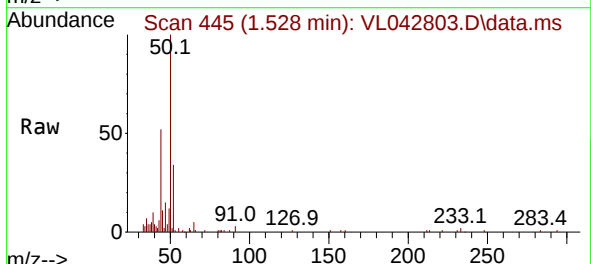
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

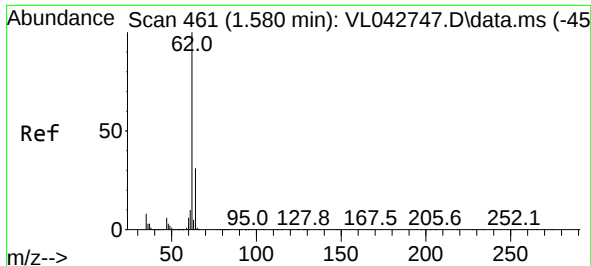
Tgt Ion: 51 Resp: 1564377
Ion Ratio Lower Upper
51 100
67 25.9 15.0 22.6#



#4
Chloromethane
Concen: 0.665 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 50 Resp: 5862
Ion Ratio Lower Upper
50 100
52 34.3 26.6 40.0

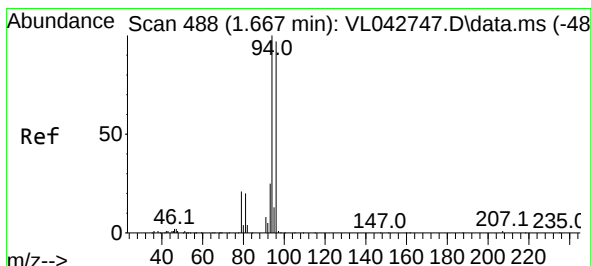
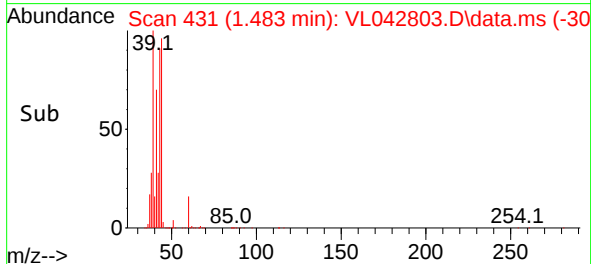
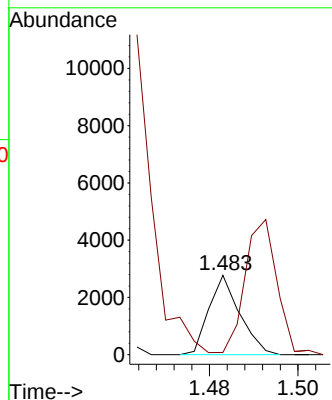
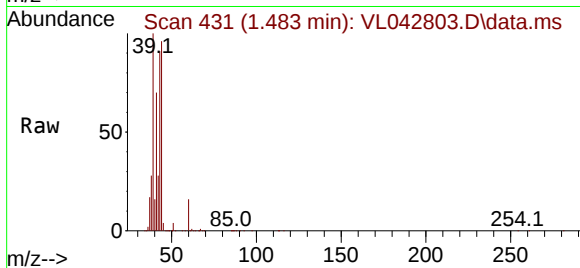




#5
 Vinyl Chloride
 Concen: 0.155 ppbv
 RT: 1.483 min Scan# 411
 Delta R.T. -0.097 min
 Lab File: VL042803.D
 Acq: 04 Aug 2025 14:03

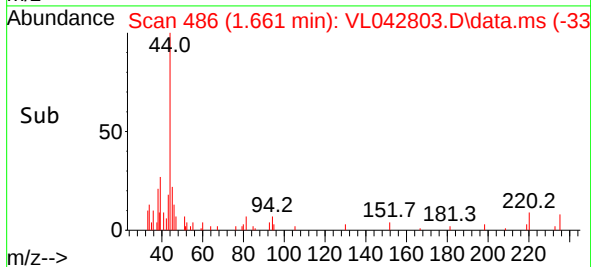
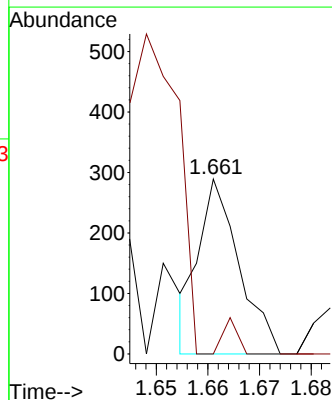
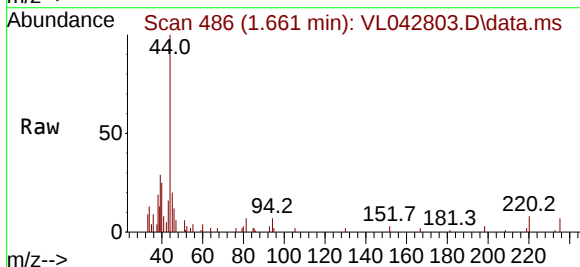
Instrument :
 MSVOA_L
 ClientSampleId :
 WONDER IA-5

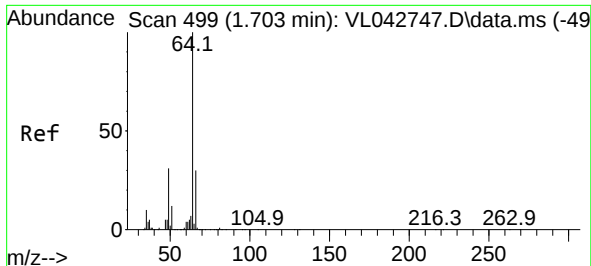
Tgt Ion: 62 Resp: 1347
 Ion Ratio Lower Upper
 62 100
 64 0.0 24.5 36.7#



#6
 Bromomethane
 Concen: 0.047 ppbv
 RT: 1.661 min Scan# 486
 Delta R.T. -0.006 min
 Lab File: VL042803.D
 Acq: 04 Aug 2025 14:03

Tgt Ion: 94 Resp: 157
 Ion Ratio Lower Upper
 94 100
 96 0.0 77.6 116.4#

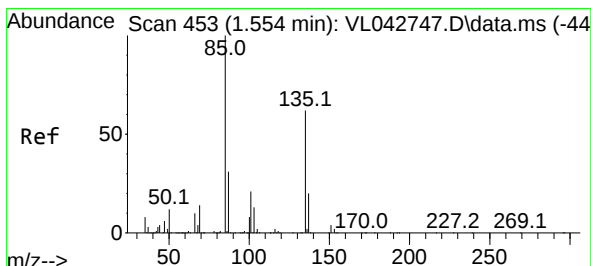
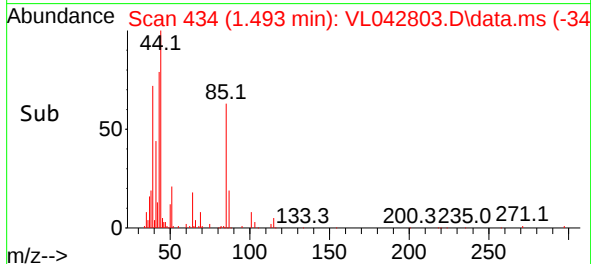
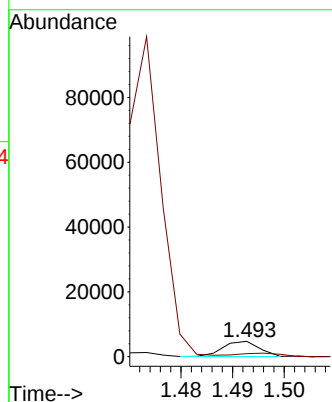
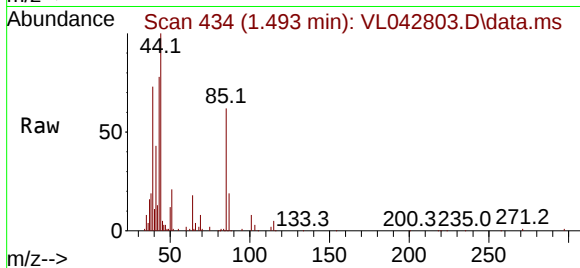




#7
Chloroethane
Concen: 0.673 ppbv
RT: 1.493 min Scan# 41
Delta R.T. -0.210 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

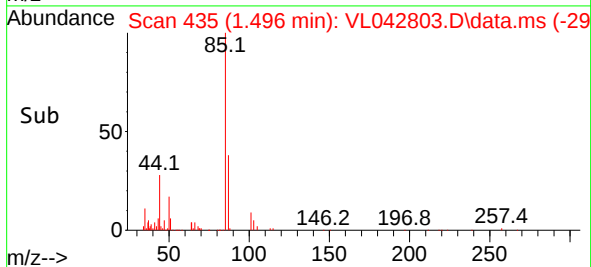
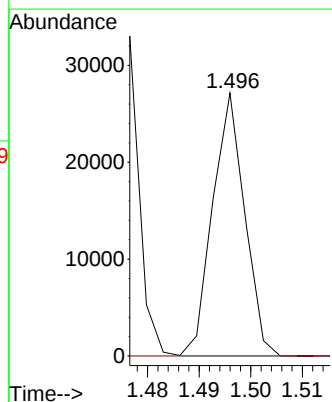
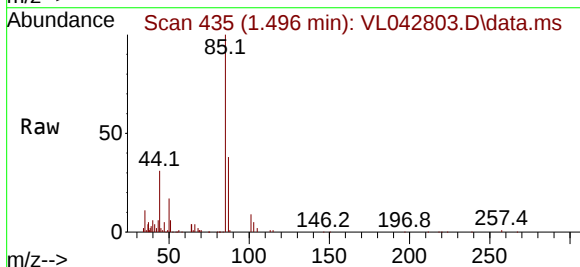
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

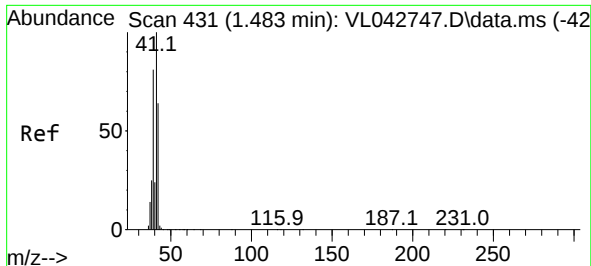
Tgt Ion: 64 Resp: 2266
Ion Ratio Lower Upper
64 100
66 19.6 24.1 36.1#



#8
Dichlorotetrafluoroethane
Concen: 0.654 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.058 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 85 Resp: 11720
Ion Ratio Lower Upper
85 100
135 2.0 50.6 76.0#





#9

Propene

Concen: 48.376 ppbv

RT: 1.557 min Scan# 41

Delta R.T. 0.075 min

Lab File: VL042803.D

Acq: 04 Aug 2025 14:03

Instrument :

MSVOA_L

ClientSampleId :

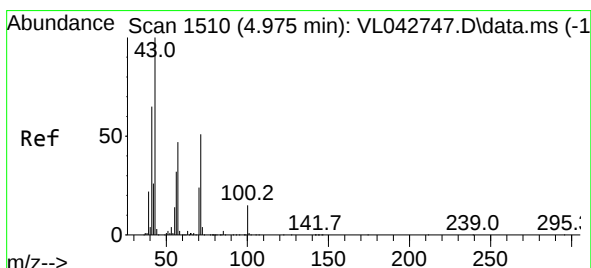
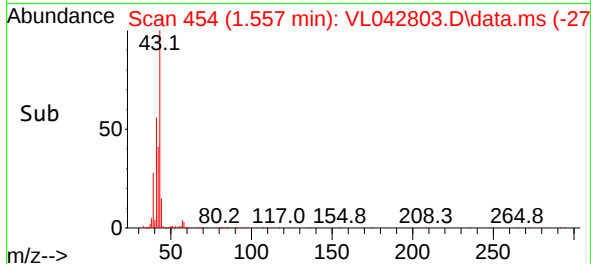
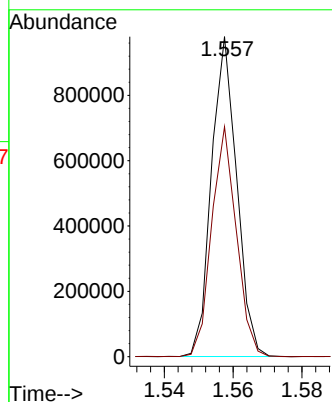
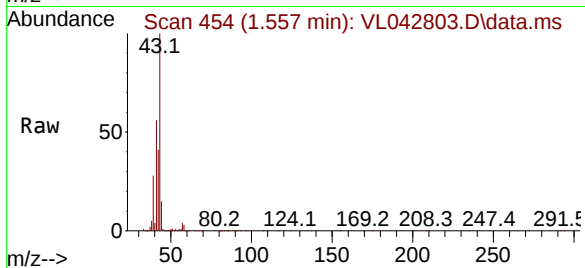
WONDER IA-5

Tgt Ion: 41 Resp: 499035

Ion Ratio Lower Upper

41 100

42 70.6 53.2 79.8



#10

Heptane

Concen: 0.075 ppbv

RT: 4.985 min Scan# 1513

Delta R.T. 0.010 min

Lab File: VL042803.D

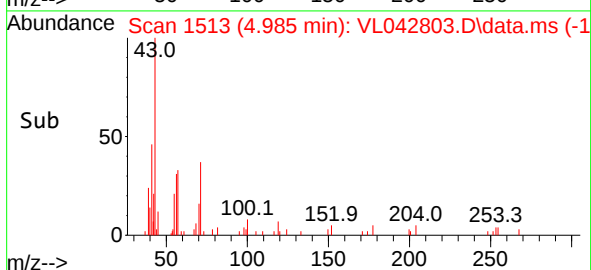
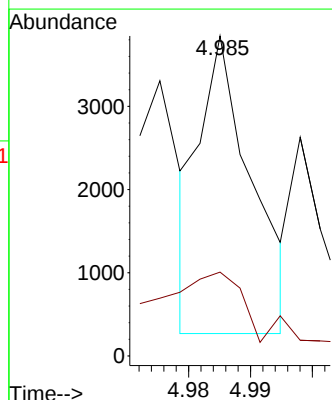
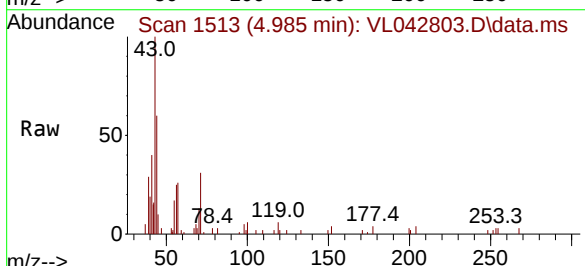
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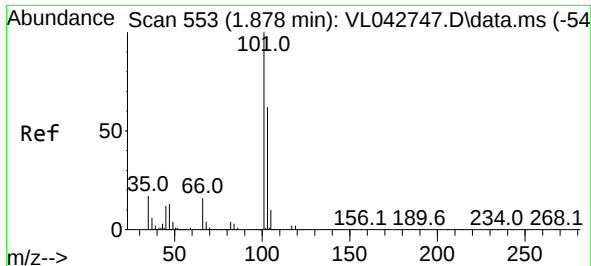
Tgt Ion: 43 Resp: 2081

Ion Ratio Lower Upper

43 100

57 124.1 39.9 59.9#





#11

Trichlorofluoromethane

Concen: 0.214 ppbv

RT: 1.875 min Scan# 51

Delta R.T. -0.003 min

Lab File: VL042803.D

Acq: 04 Aug 2025 14:03

Instrument :

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ClientSampleId :

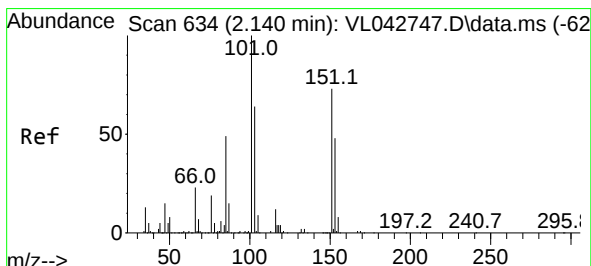
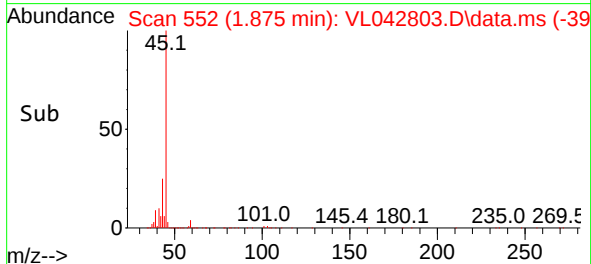
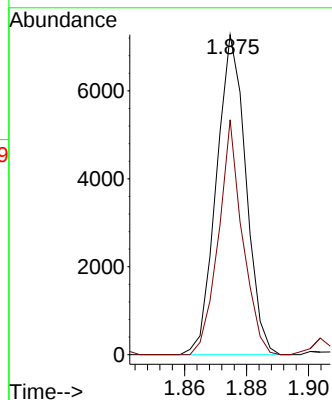
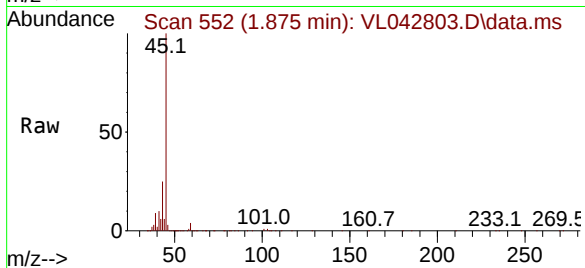
WONDER IA-5

Tgt Ion:101 Resp: 4804

Ion Ratio Lower Upper

101 100

103 73.4 49.6 74.4



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.078 ppbv

RT: 2.134 min Scan# 632

Delta R.T. -0.006 min

Lab File: VL042803.D

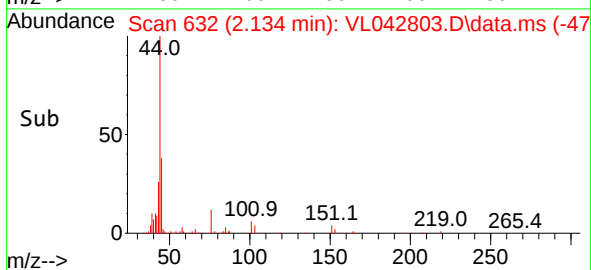
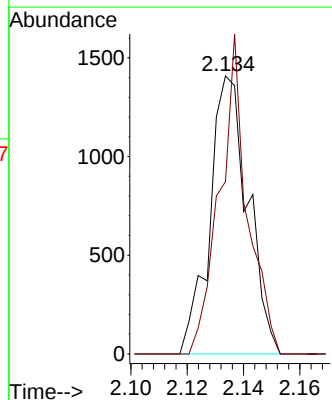
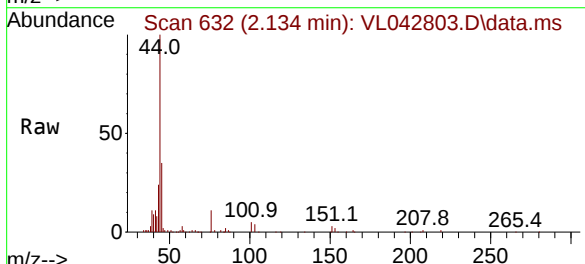
Acq: 04 Aug 2025 14:03

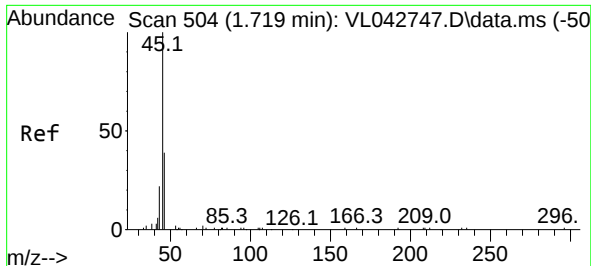
Tgt Ion:101 Resp: 1324

Ion Ratio Lower Upper

101 100

151 82.7 60.5 90.7

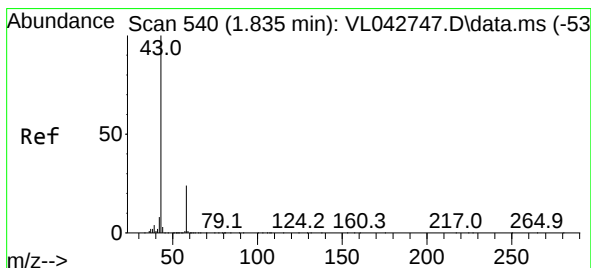
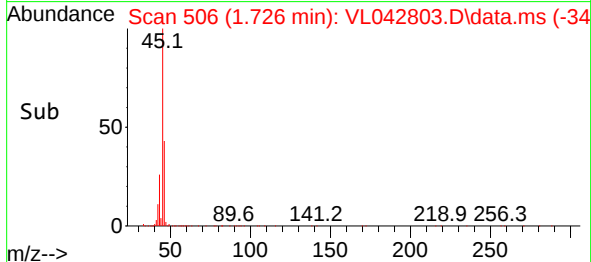
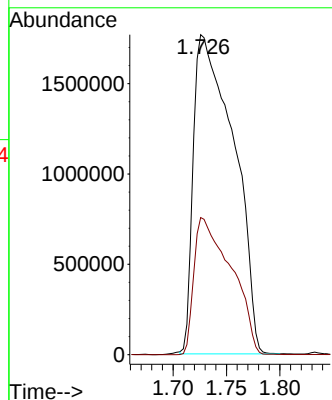
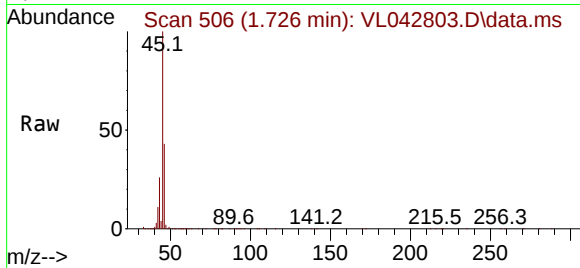




#13
Ethanol
Concen: 6156.946 ppbv
RT: 1.726 min Scan# 504
Delta R.T. 0.007 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

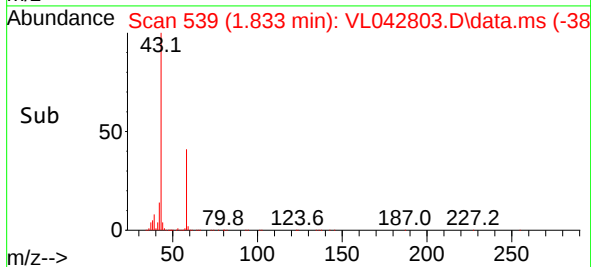
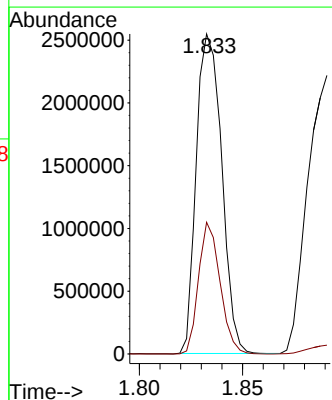
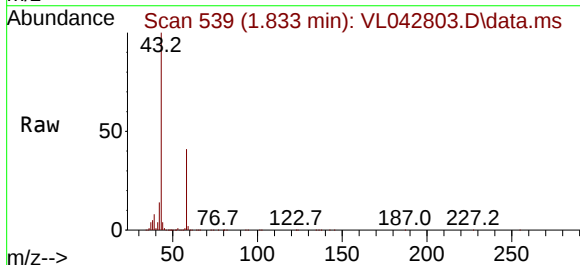
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

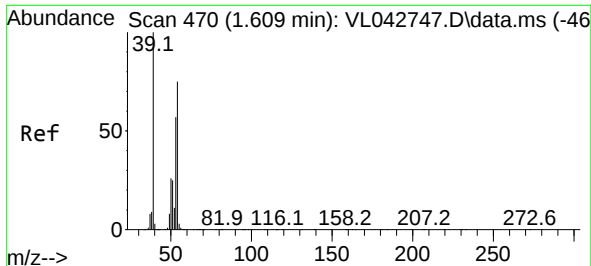
Tgt Ion: 45 Resp: 4625427
Ion Ratio Lower Upper
45 100
46 40.0 17.8 71.4



#15
Acetone
Concen: 95.974 ppbv
RT: 1.833 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 43 Resp: 2183939
Ion Ratio Lower Upper
43 100
58 34.9 19.8 29.8#

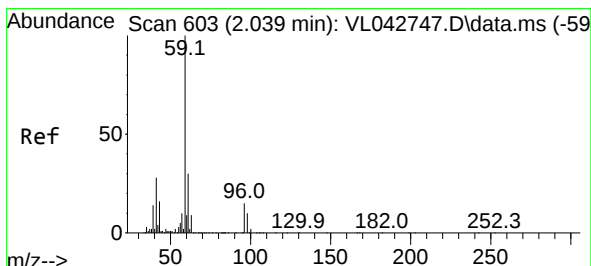
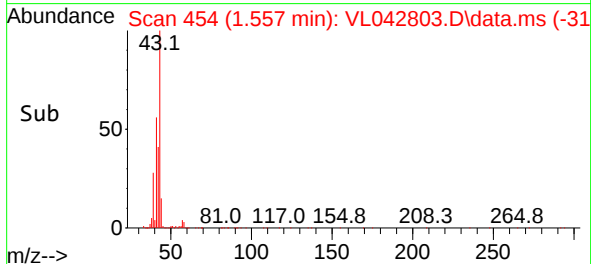
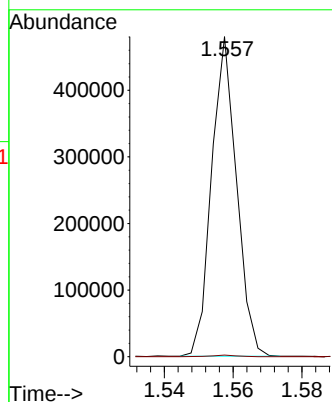
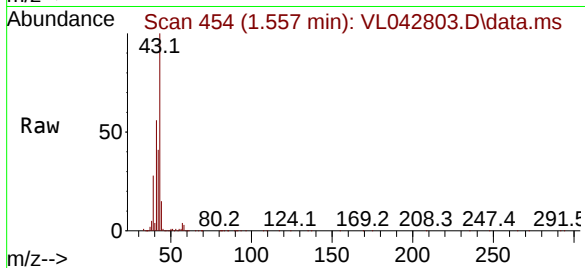




#16
1,3-Butadiene
Concen: 24.968 ppbv
RT: 1.557 min Scan# 411
Delta R.T. -0.051 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

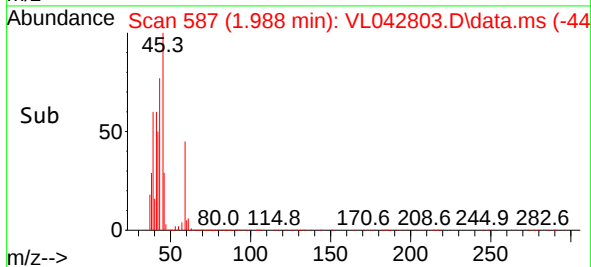
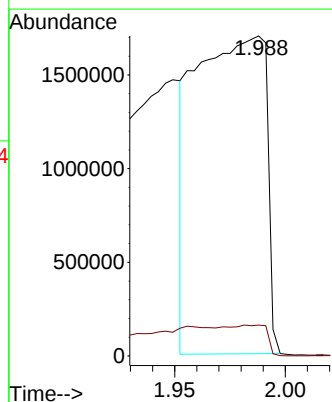
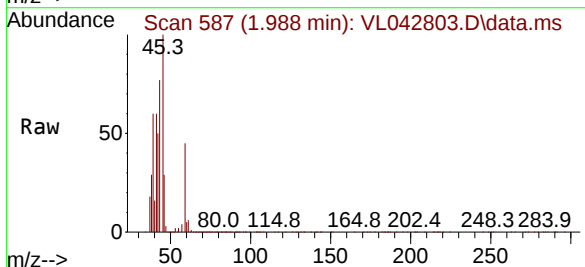
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

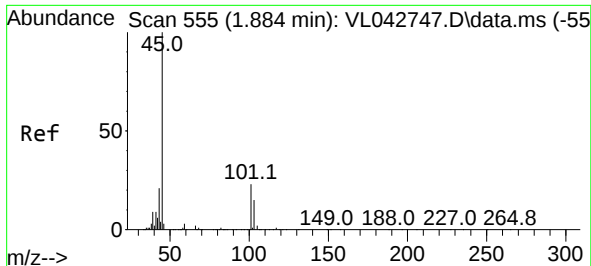
Tgt Ion: 39 Resp: 242347
Ion Ratio Lower Upper
39 100
54 0.5 54.5 81.7#



#17
tert-Butyl alcohol
Concen: 183.683 ppbv
RT: 1.988 min Scan# 587
Delta R.T. -0.051 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 59 Resp: 3769753
Ion Ratio Lower Upper
59 100
57 20.5 8.3 12.5#

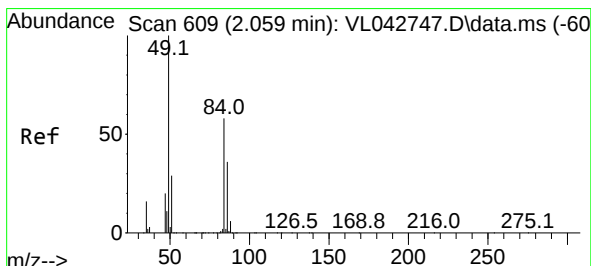
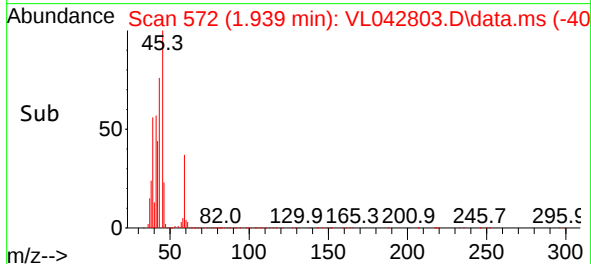
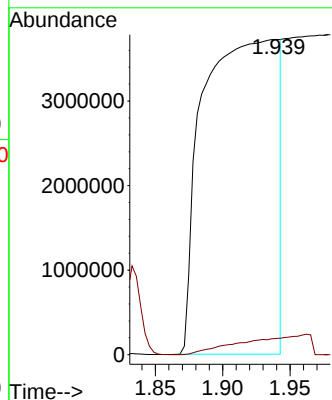
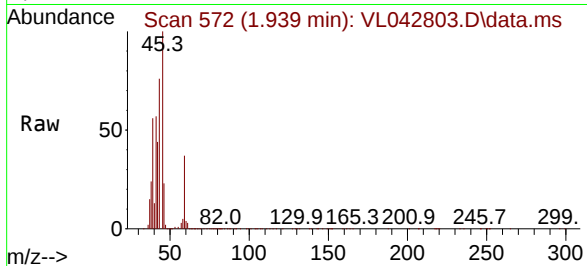




#19
Isopropyl Alcohol
Concen: 1183.864 ppbv
RT: 1.939 min Scan# 51
Delta R.T. 0.055 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

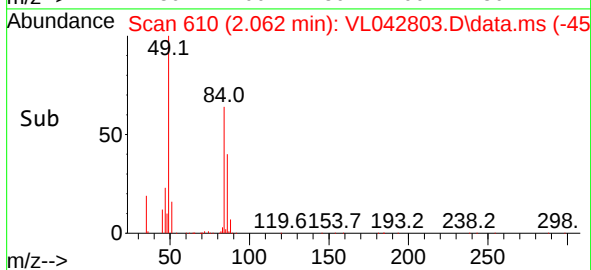
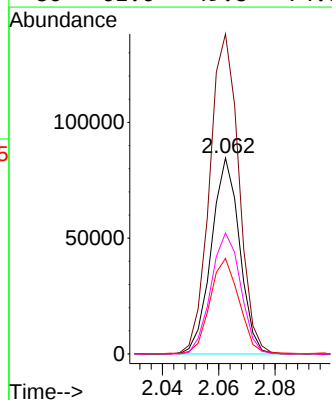
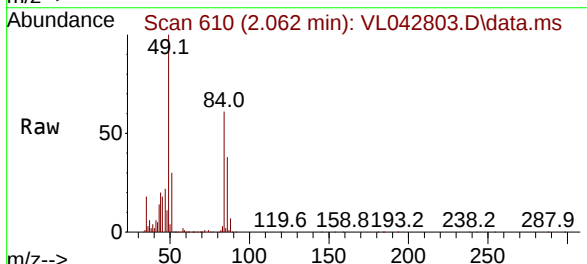
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

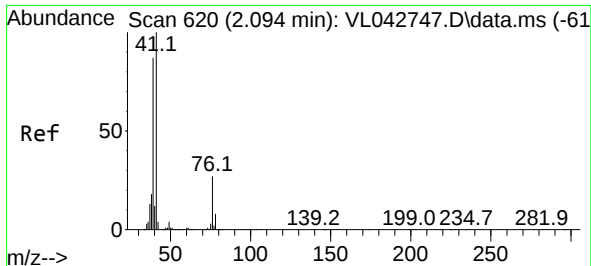
Tgt Ion: 45 Resp:14315907
Ion Ratio Lower Upper
45 100
58 5.7 30.0 45.0#



#20
Methylene Chloride
Concen: 8.214 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.004 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 84 Resp: 58902
Ion Ratio Lower Upper
84 100
49 162.9 138.6 208.0
51 48.6 40.6 61.0
86 61.6 49.8 74.8

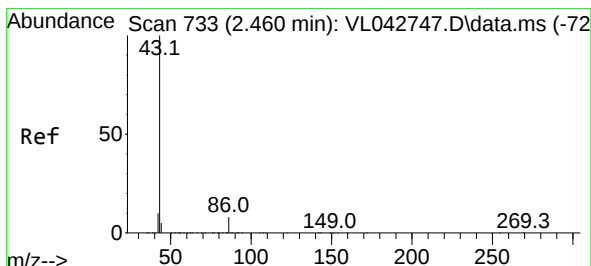
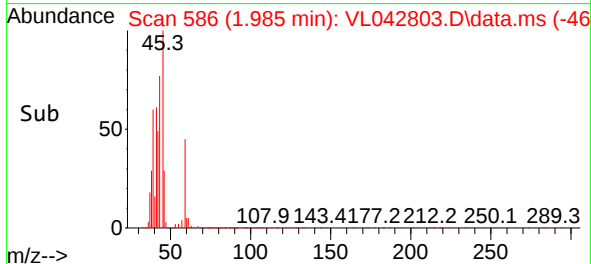
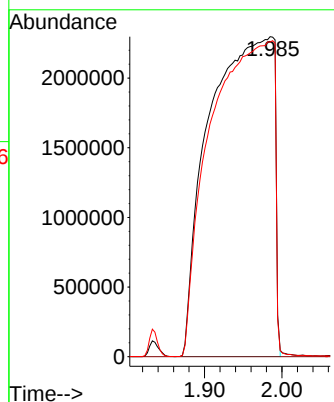
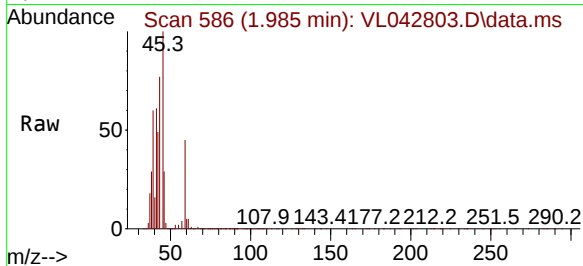




#21
 Allyl Chloride
 Concen: 944.233 ppbv
 RT: 1.985 min Scan# 51
 Delta R.T. -0.110 min
 Lab File: VL042803.D
 Acq: 04 Aug 2025 14:03

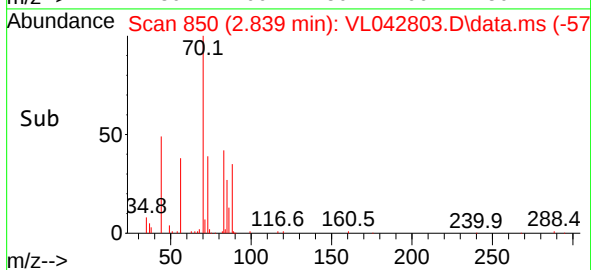
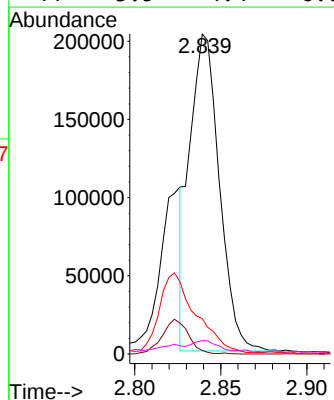
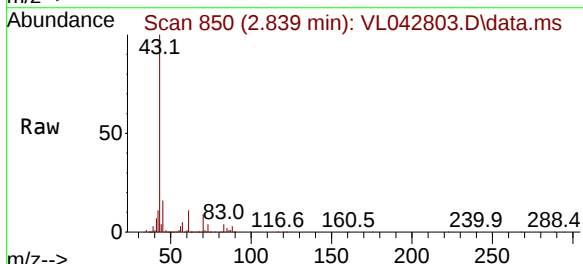
Instrument :
 MSVOA_L
 ClientSampleId :
 WONDER IA-5

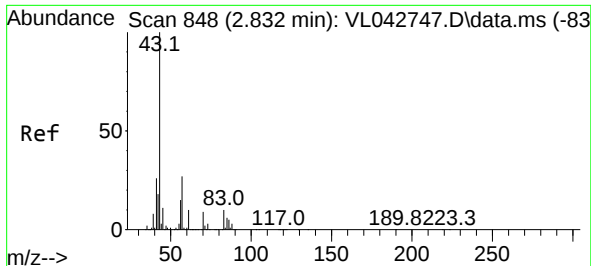
Tgt Ion: 41 Resp:13242426
 Ion Ratio Lower Upper
 41 100
 76 0.5 21.1 31.7#
 39 97.2 68.3 102.5



#23
 Vinyl Acetate
 Concen: 8.772 ppbv
 RT: 2.839 min Scan# 850
 Delta R.T. 0.379 min
 Lab File: VL042803.D
 Acq: 04 Aug 2025 14:03

Tgt Ion: 43 Resp: 241999
 Ion Ratio Lower Upper
 43 100
 86 1.1 6.1 9.1#
 42 10.7 7.8 11.8
 44 3.5 4.4 6.6#





#25

Ethyl Acetate

Concen: 4.805 ppbv

RT: 2.839 min Scan# 848

Delta R.T. 0.007 min

Lab File: VL042803.D

Acq: 04 Aug 2025 14:03

Instrument :

MSVOA_L

ClientSampleId :

WONDER IA-5

Tgt Ion: 43 Resp: 241999

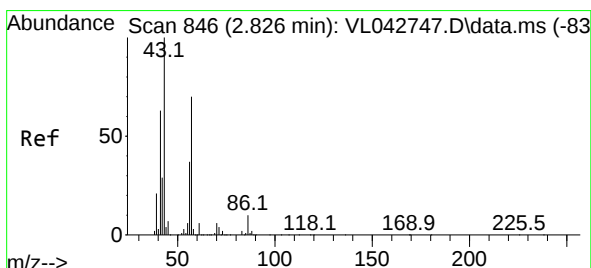
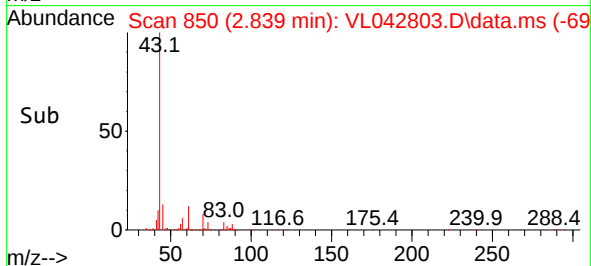
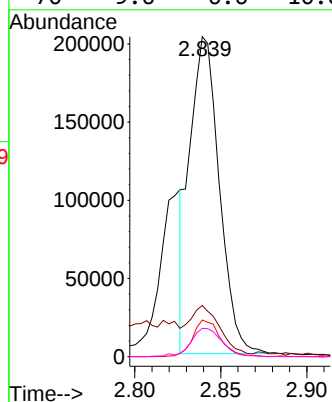
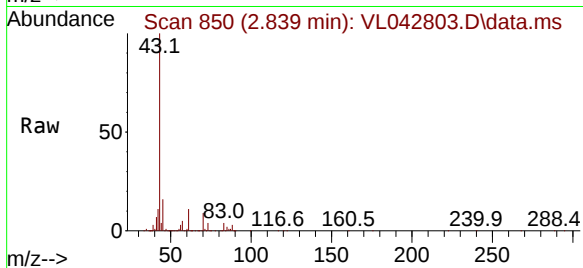
Ion Ratio Lower Upper

43 100

45 35.8 7.8 11.6#

61 10.9 6.7 10.1#

70 9.6 6.6 10.0



#26

Hexane

Concen: 6.600 ppbv

RT: 2.823 min Scan# 845

Delta R.T. -0.003 min

Lab File: VL042803.D

Acq: 04 Aug 2025 14:03

Tgt Ion: 57 Resp: 145822

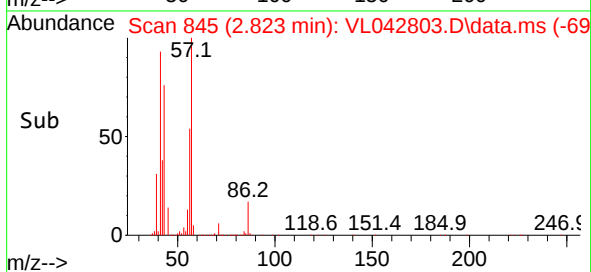
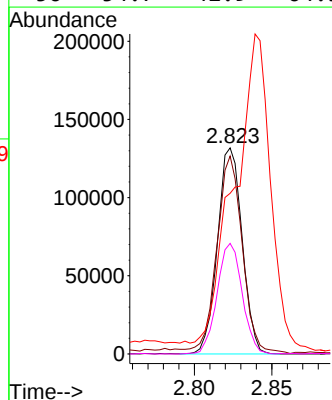
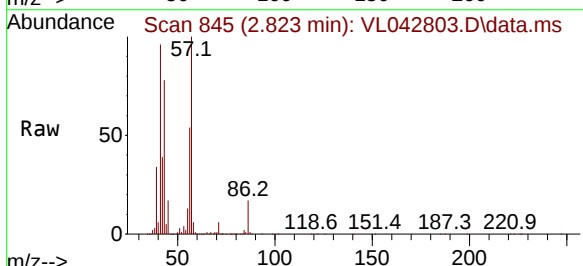
Ion Ratio Lower Upper

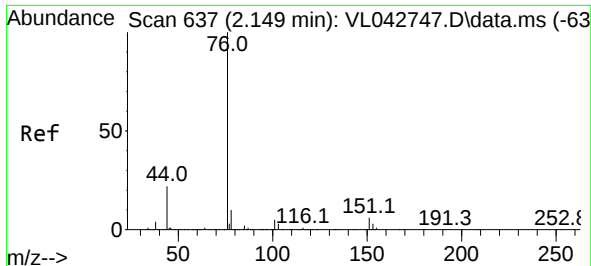
57 100

41 99.8 75.4 113.2

43 237.0 185.0 277.6

56 54.7 42.9 64.3

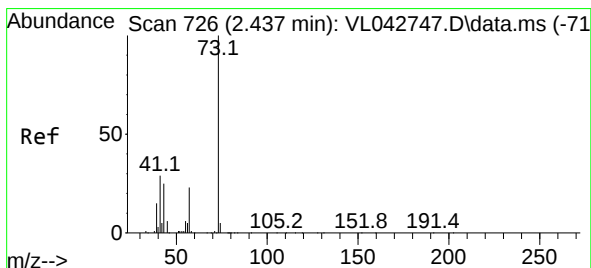
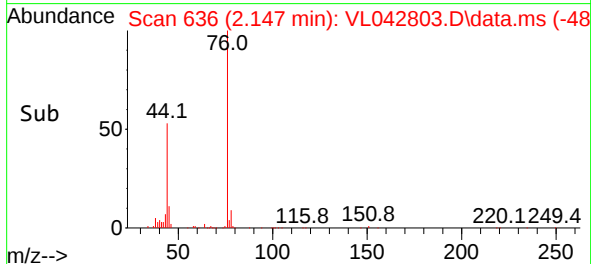
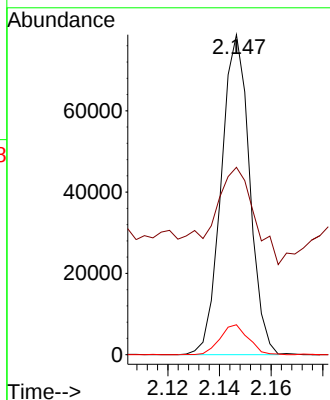
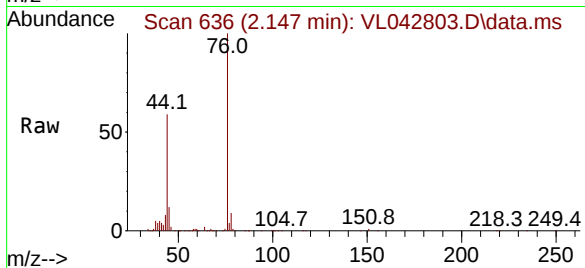




#27
Carbon Disulfide
Concen: 3.175 ppbv
RT: 2.147 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

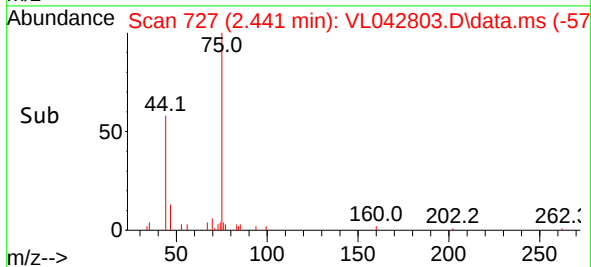
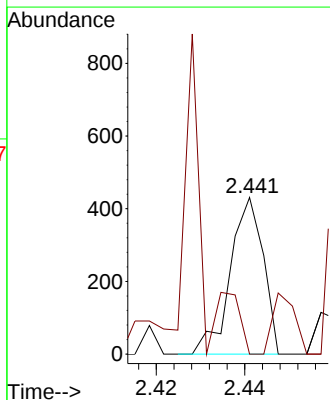
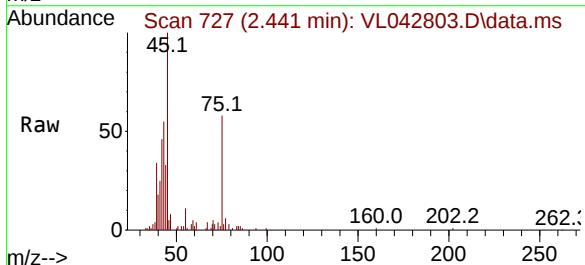
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

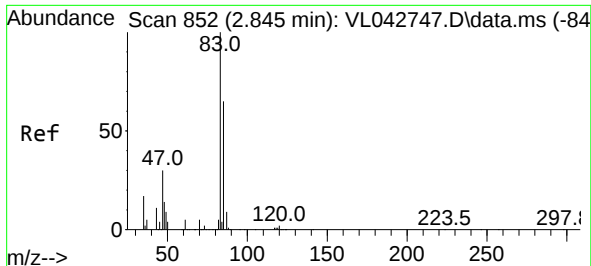
Tgt Ion: 76 Resp: 60059
Ion Ratio Lower Upper
76 100
44 0.0 19.3 28.9#
78 9.6 9.9 14.9#



#28
Methyl tert-Butyl Ether
Concen: 0.021 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.004 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 73 Resp: 223
Ion Ratio Lower Upper
73 100
57 0.0 19.8 29.8#





#29

Chloroform

Concen: 0.551 ppbv

RT: 2.849 min Scan# 8

Delta R.T. 0.004 min

Lab File: VL042803.D

Acq: 04 Aug 2025 14:03

Instrument :

MSVOA_L

ClientSampleId :

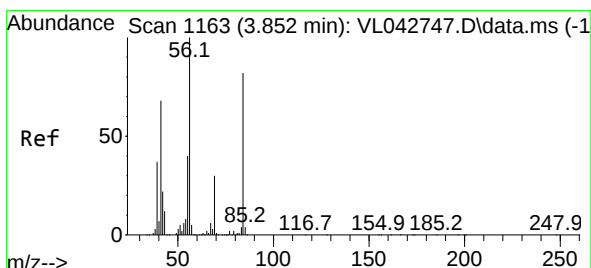
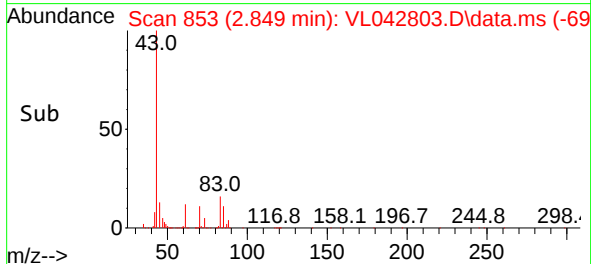
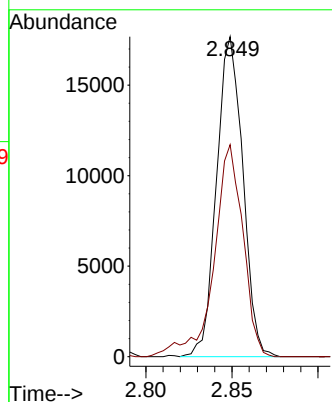
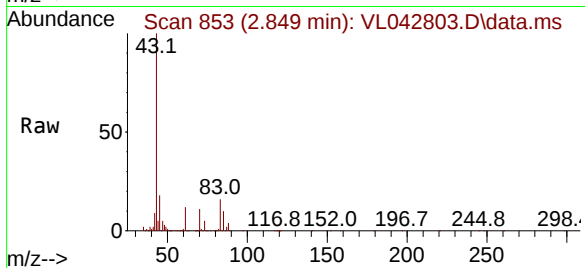
WONDER IA-5

Tgt Ion: 83 Resp: 18805

Ion Ratio Lower Upper

83 100

85 66.2 52.2 78.2



#30

Cyclohexane

Concen: 0.056 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. 0.000 min

Lab File: VL042803.D

Acq: 04 Aug 2025 14:03

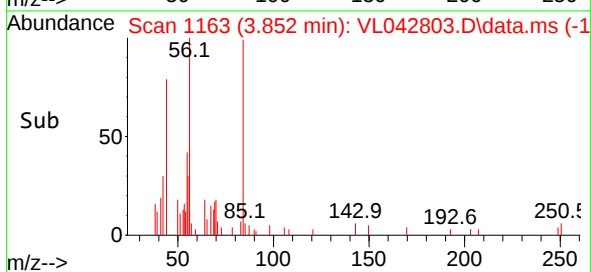
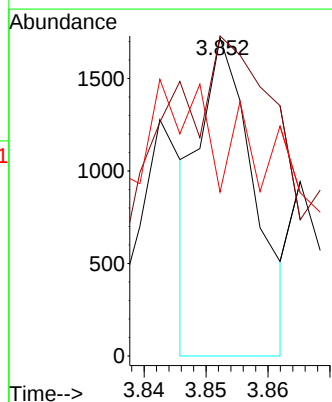
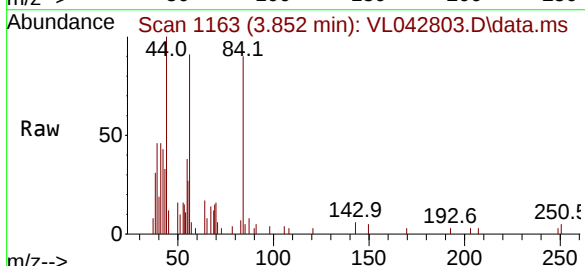
Tgt Ion: 84 Resp: 1053

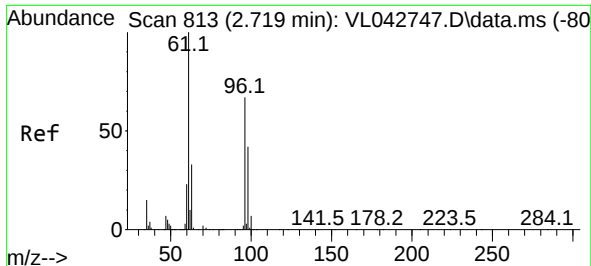
Ion Ratio Lower Upper

84 100

56 298.7 97.5 146.3#

41 0.0 67.2 100.8#

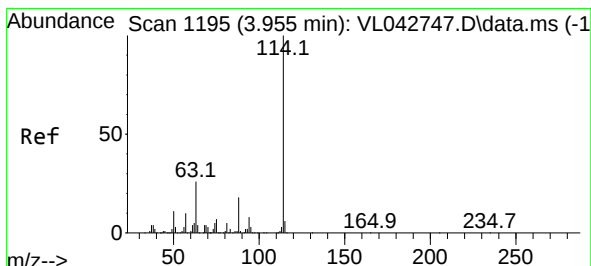
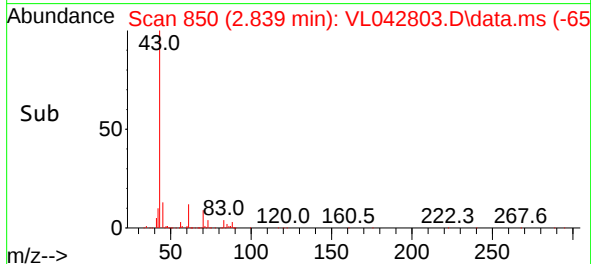
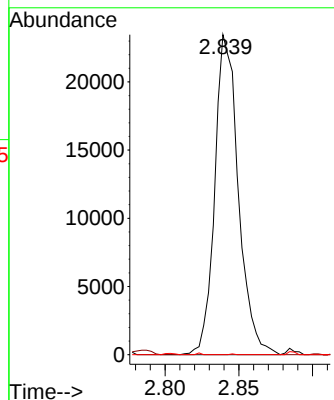
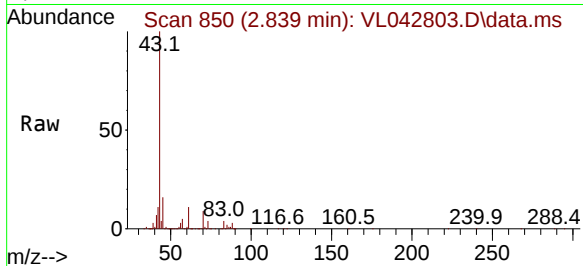




#31
 cis-1,2-Dichloroethene
 Concen: 1.151 ppbv
 RT: 2.839 min Scan# 813
 Delta R.T. 0.120 min
 Lab File: VL042803.D
 Acq: 04 Aug 2025 14:03

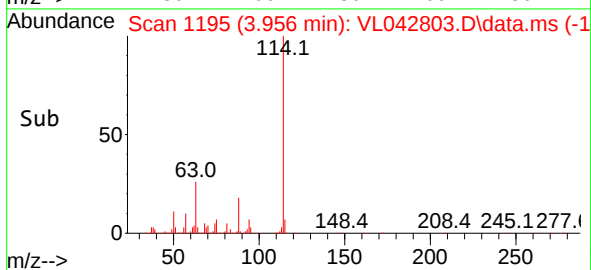
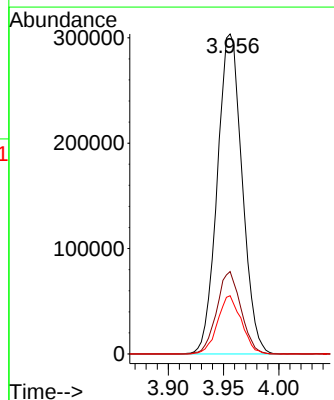
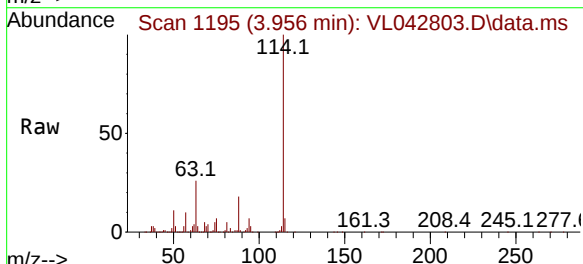
Instrument :
 MSVOA_L
 ClientSampleId :
 WONDER IA-5

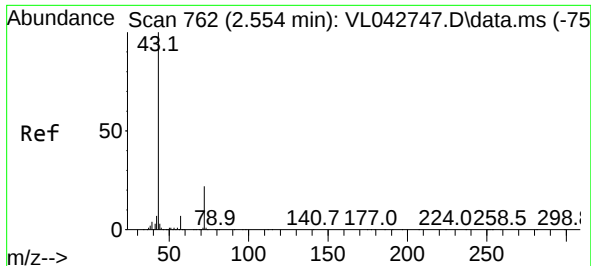
Tgt Ion: 61 Resp: 26136
 Ion Ratio Lower Upper
 61 100
 96 0.0 53.5 80.3#
 98 0.0 33.6 50.4#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.956 min Scan# 1195
 Delta R.T. 0.000 min
 Lab File: VL042803.D
 Acq: 04 Aug 2025 14:03

Tgt Ion: 114 Resp: 474917
 Ion Ratio Lower Upper
 114 100
 63 25.1 20.5 30.7
 88 17.4 14.0 21.0

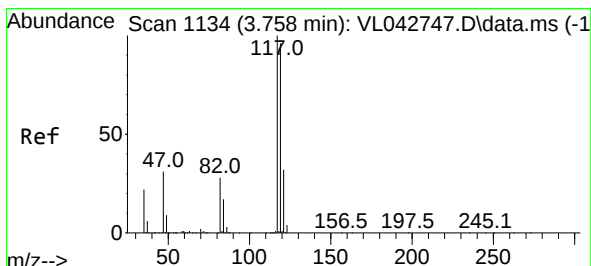
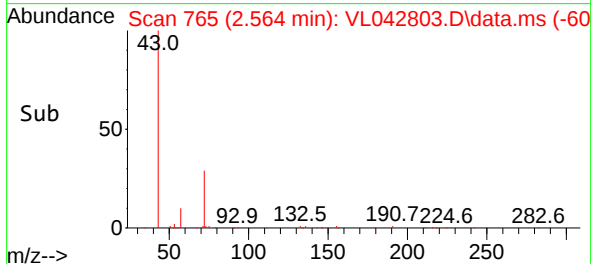
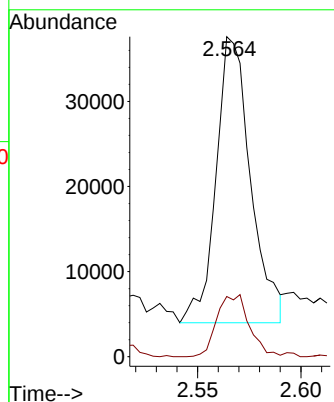
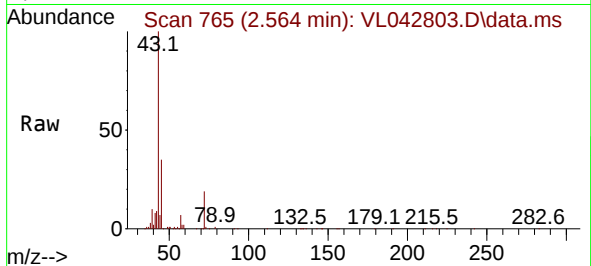




#34
2-Butanone
Concen: 1.163 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.010 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

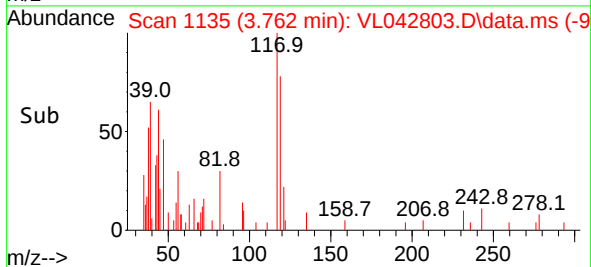
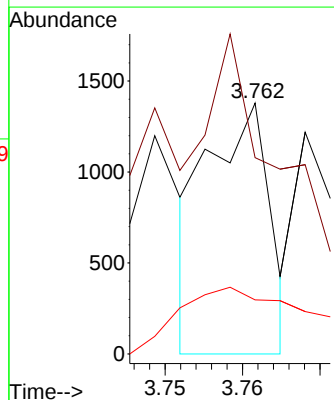
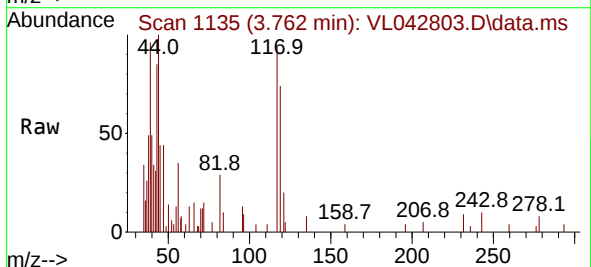
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

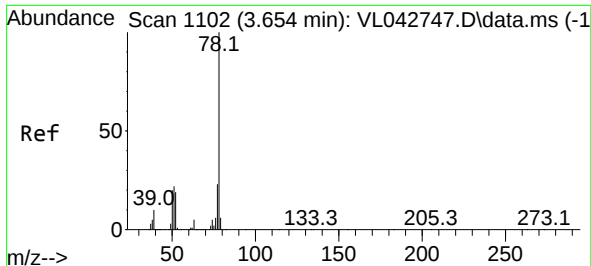
Tgt Ion: 43 Resp: 39111
Ion Ratio Lower Upper
43 100
72 21.1 17.4 26.0



#35
Carbon Tetrachloride
Concen: 0.022 ppbv
RT: 3.762 min Scan# 1135
Delta R.T. 0.004 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 117 Resp: 773
Ion Ratio Lower Upper
117 100
119 7.3 77.1 115.7#
121 4.6 25.5 38.3#

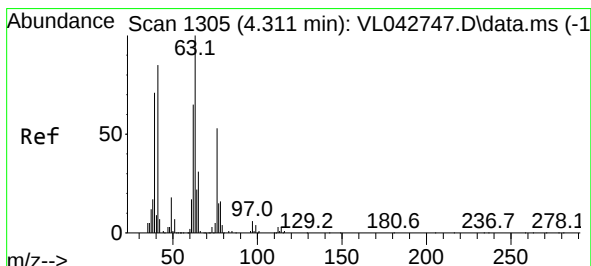
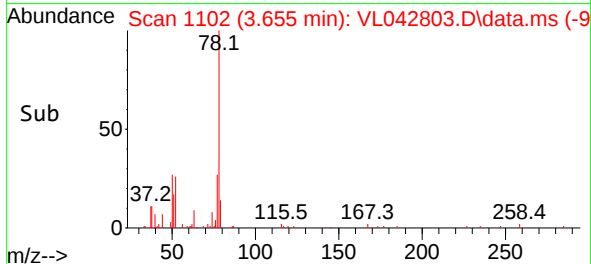
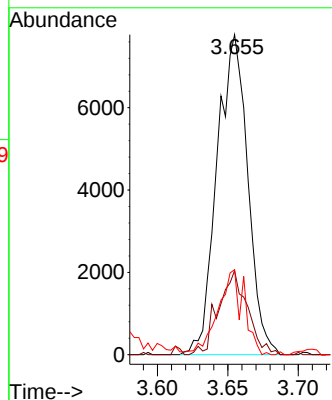
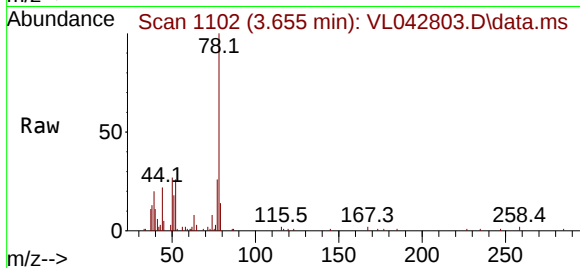




#36
Benzene
Concen: 0.262 ppbv
RT: 3.655 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

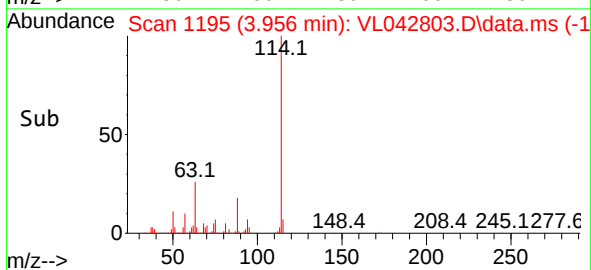
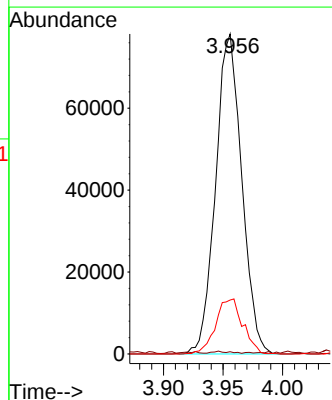
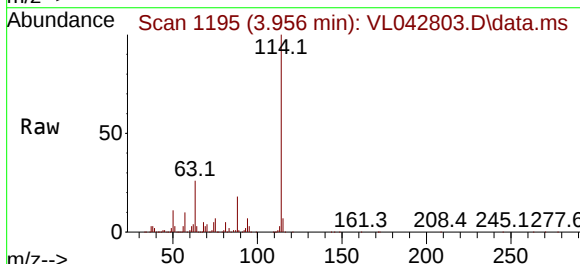
Instrument :
MSVOA_1
ClientSampleId :
WONDER IA-5

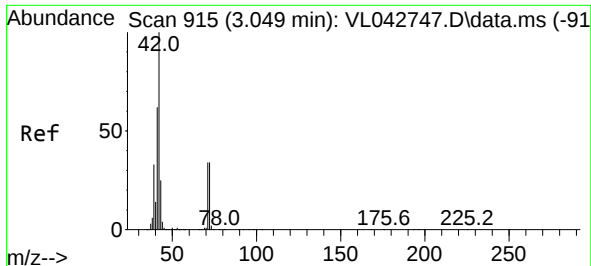
Tgt Ion: 78 Resp: 11806
Ion Ratio Lower Upper
78 100
77 26.3 18.5 27.7
50 25.7 16.2 24.2#



#39
1,2-Dichloropropane
Concen: 7.178 ppbv
RT: 3.956 min Scan# 1195
Delta R.T. -0.356 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 63 Resp: 119264
Ion Ratio Lower Upper
63 100
41 0.4 68.2 102.4#
62 16.8 52.0 78.0#

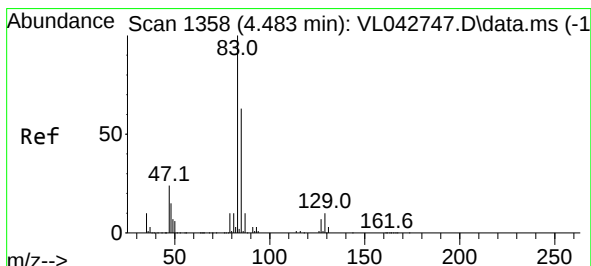
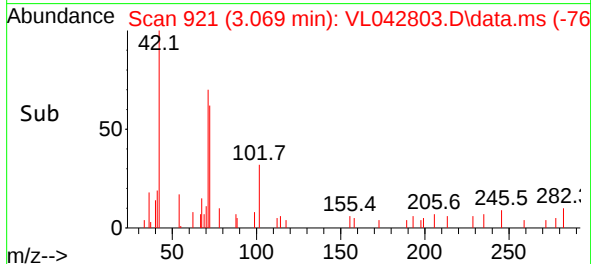
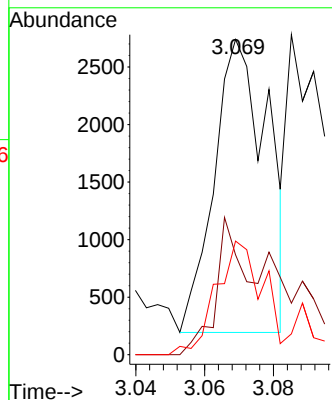
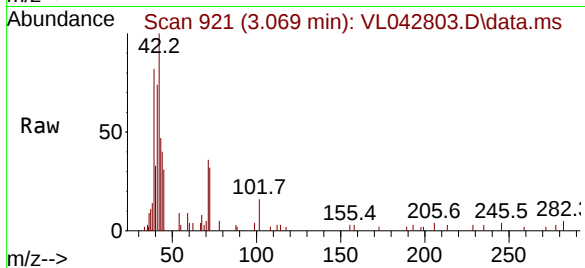




#41
Tetrahydrofuran
Concen: 0.161 ppbv
RT: 3.069 min Scan# 915
Delta R.T. 0.020 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

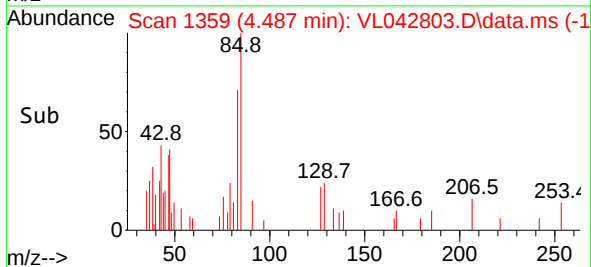
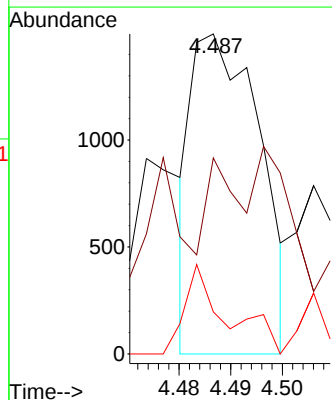
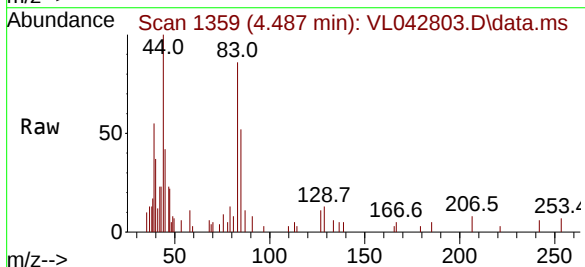
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

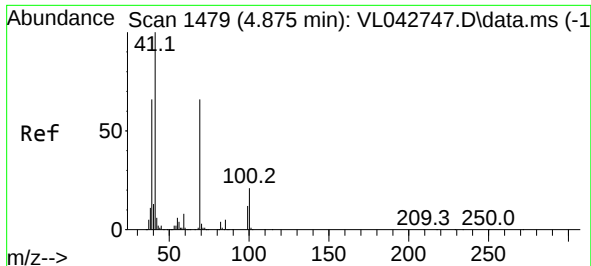
Tgt Ion: 42 Resp: 2749
Ion Ratio Lower Upper
42 100
72 58.6 30.9 46.3#
71 43.5 28.6 43.0#



#42
Bromodichloromethane
Concen: 0.039 ppbv
RT: 4.487 min Scan# 1359
Delta R.T. 0.004 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 83 Resp: 1371
Ion Ratio Lower Upper
83 100
85 37.6 50.2 75.4#
127 20.1 5.4 8.2#

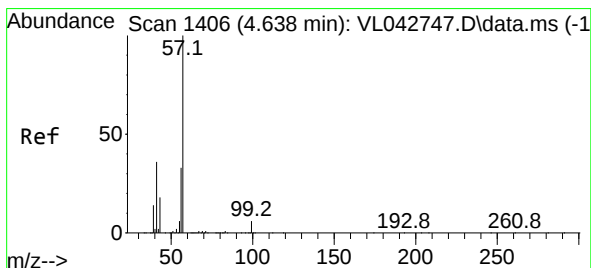
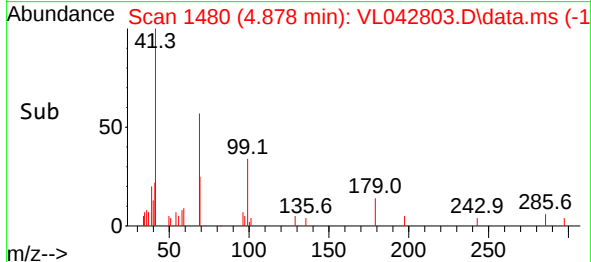
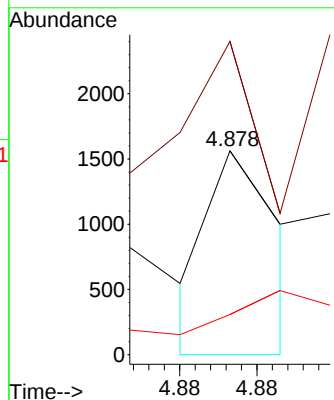
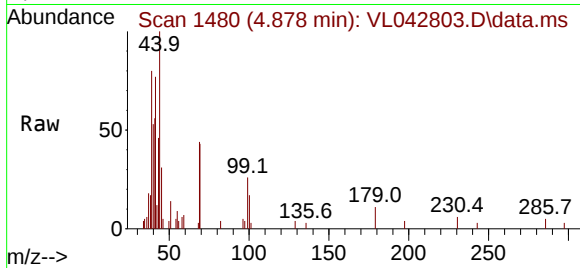




#43
Methyl Methacrylate
Concen: 0.031 ppbv
RT: 4.878 min Scan# 1479
Delta R.T. 0.004 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

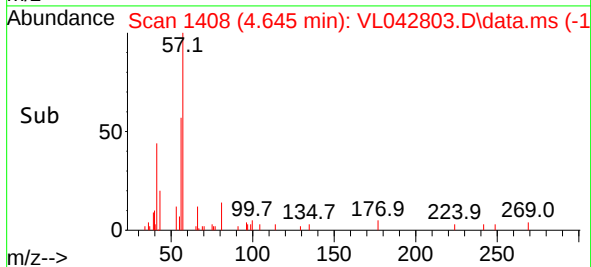
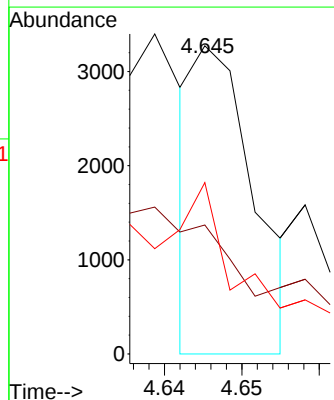
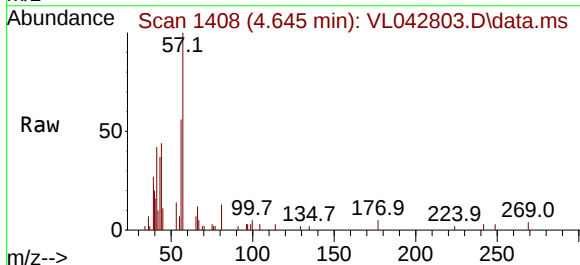
Instrument :
MSVOA_1
ClientSampleId :
WONDER IA-5

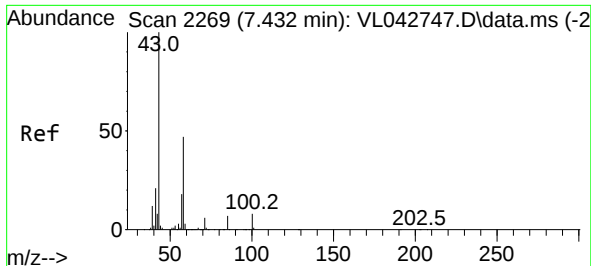
Tgt Ion: 69 Resp: 498
Ion Ratio Lower Upper
69 100
41 0.0 125.7 188.5#
100 0.0 28.6 42.8#



#44
2,2,4-Trimethylpentane
Concen: 0.024 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.007 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 57 Resp: 1752
Ion Ratio Lower Upper
57 100
41 232.2 28.3 42.5#
56 0.0 25.8 38.6#

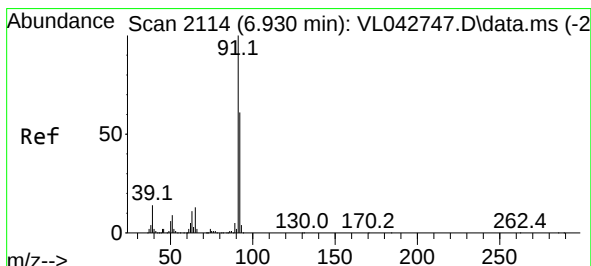
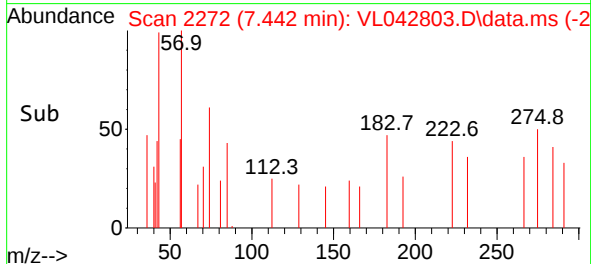
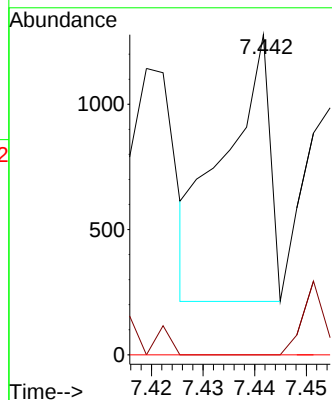
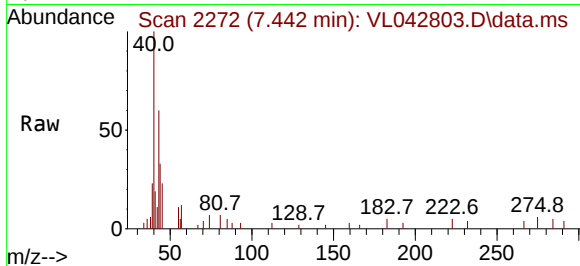




#51
2-Hexanone
Concen: 0.020 ppbv
RT: 7.442 min Scan# 2113
Delta R.T. 0.010 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

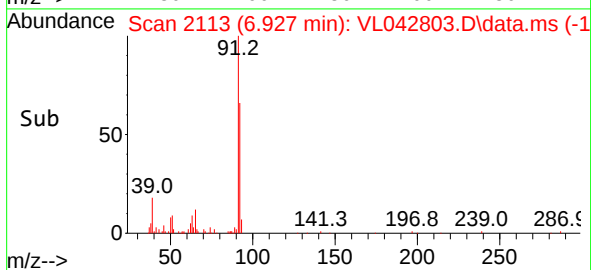
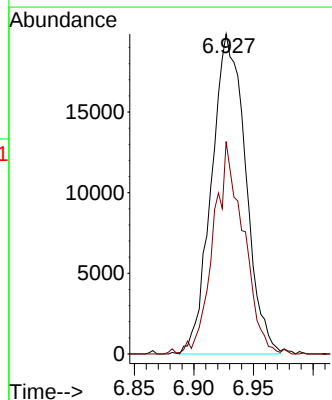
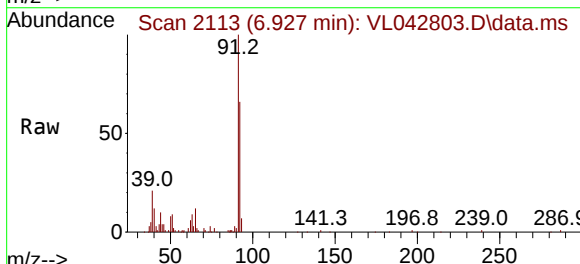
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

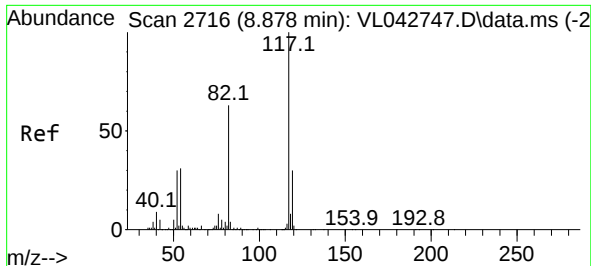
Tgt Ion: 43 Resp: 657
Ion Ratio Lower Upper
43 100
58 0.0 38.0 57.0#
98 0.0 0.2 0.4#



#53
Toluene
Concen: 0.816 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 91 Resp: 39418
Ion Ratio Lower Upper
91 100
92 59.1 48.0 72.0

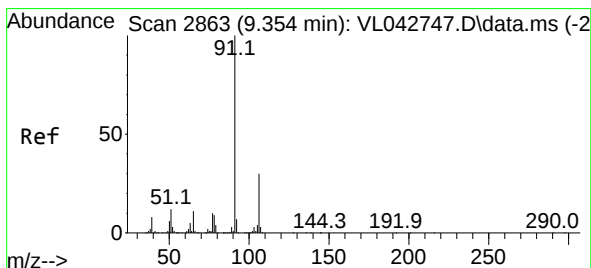
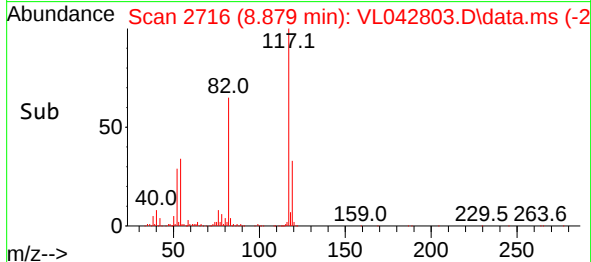
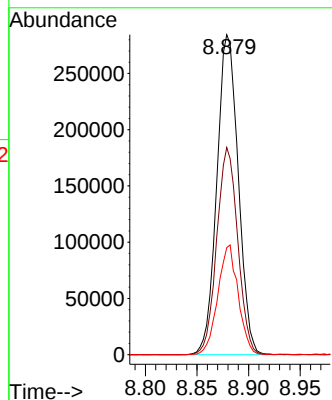
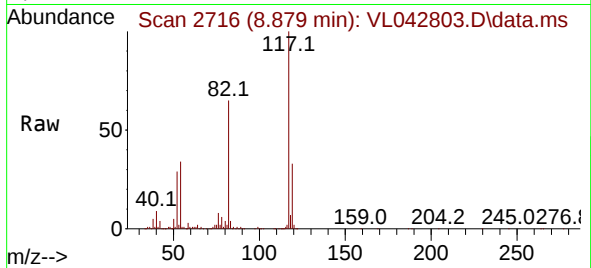




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

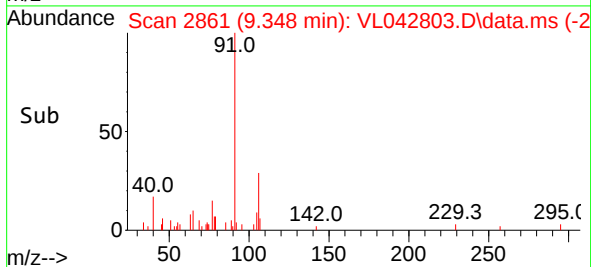
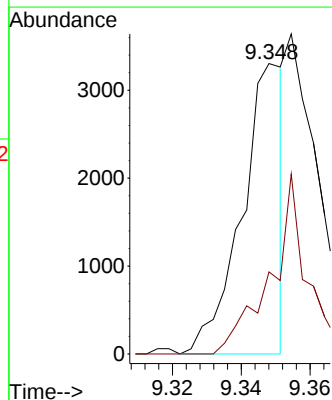
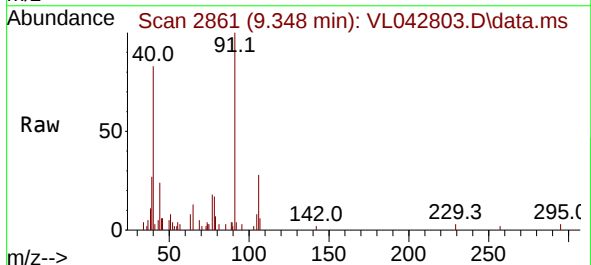
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

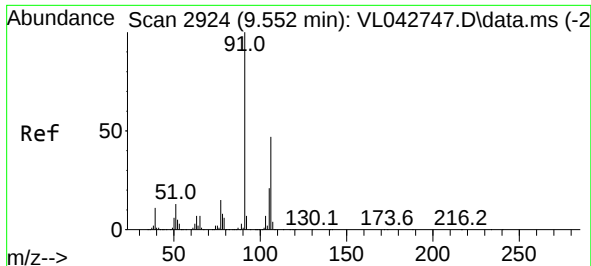
Tgt Ion:117 Resp: 410663
Ion Ratio Lower Upper
117 100
82 63.4 53.3 79.9
119 32.8 25.8 38.6



#58
Ethyl Benzene
Concen: 0.043 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.006 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 91 Resp: 2759
Ion Ratio Lower Upper
91 100
106 34.2 23.8 35.6





#59

m/p-Xylene

Concen: 0.036 ppbv

RT: 9.552 min Scan# 2924

Delta R.T. 0.000 min

Lab File: VL042803.D

Acq: 04 Aug 2025 14:03

Instrument :

MSVOA_L

ClientSampleId :

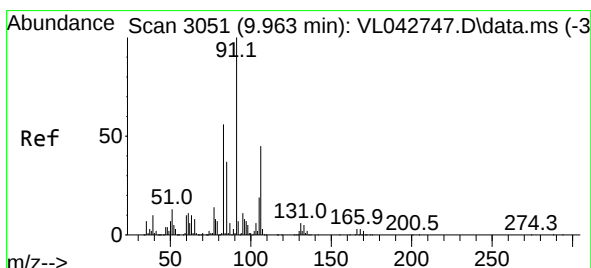
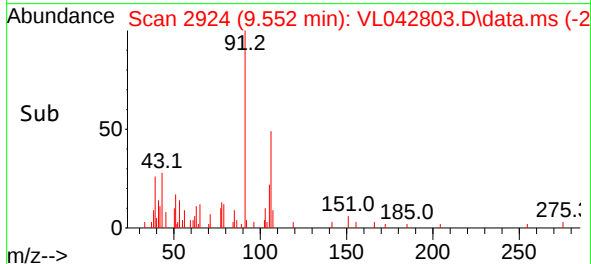
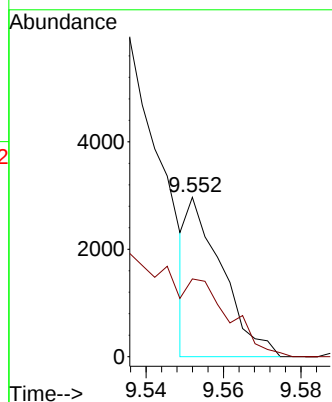
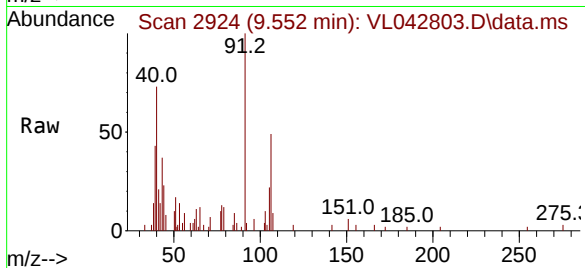
WONDER IA-5

Tgt Ion: 91 Resp: 1861

Ion Ratio Lower Upper

91 100

106 0.0 37.4 56.2#



#60

o-Xylene

Concen: 0.090 ppbv

RT: 9.960 min Scan# 3050

Delta R.T. -0.003 min

Lab File: VL042803.D

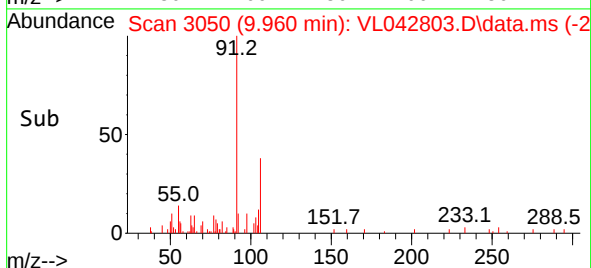
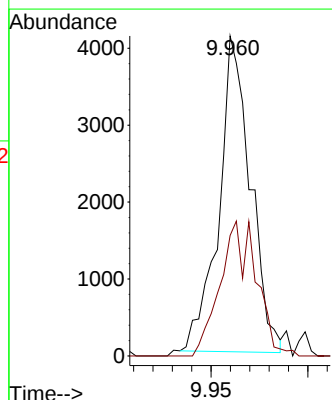
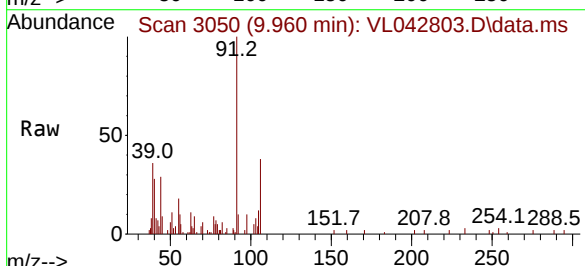
Acq: 04 Aug 2025 14:03

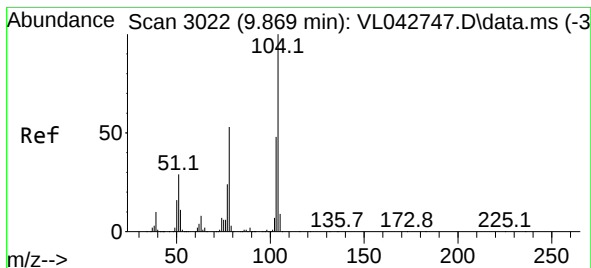
Tgt Ion: 91 Resp: 4662

Ion Ratio Lower Upper

91 100

106 49.0 22.0 66.0





#61

Styrene

Concen: 0.124 ppbv

RT: 9.872 min Scan# 3022

Delta R.T. 0.004 min

Lab File: VL042803.D

Acq: 04 Aug 2025 14:03

Instrument :

MSVOA_1

ClientSampleId :

WONDER IA-5

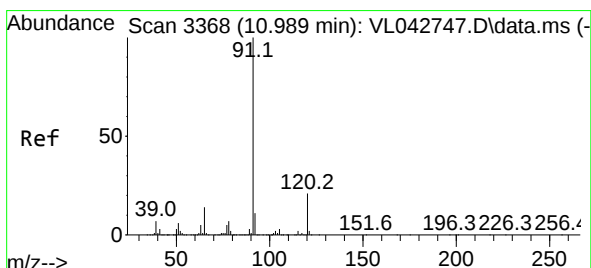
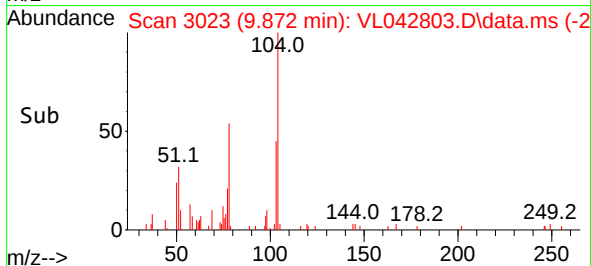
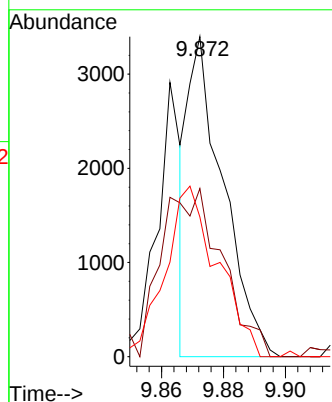
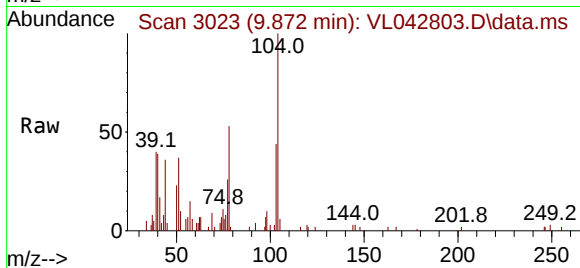
Tgt Ion:104 Resp: 2703

Ion Ratio Lower Upper

104 100

78 92.5 41.5 62.3#

103 78.9 37.5 56.3#



#64

n-propylbenzene

Concen: 0.035 ppbv

RT: 10.986 min Scan# 3367

Delta R.T. -0.003 min

Lab File: VL042803.D

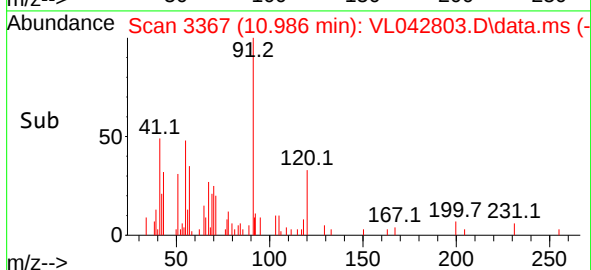
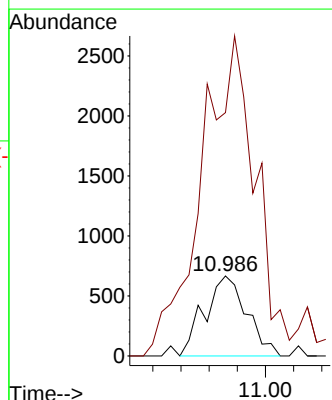
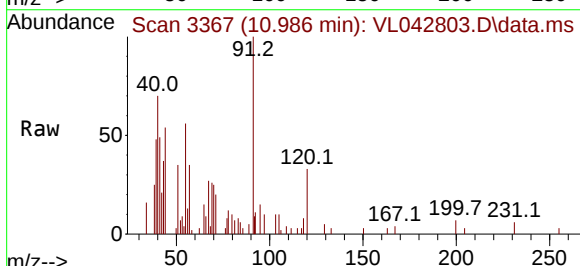
Acq: 04 Aug 2025 14:03

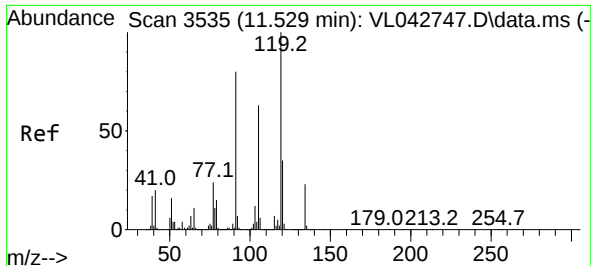
Tgt Ion:120 Resp: 692

Ion Ratio Lower Upper

120 100

91 539.6 372.7 559.1

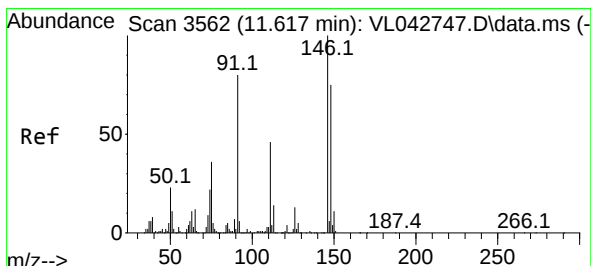
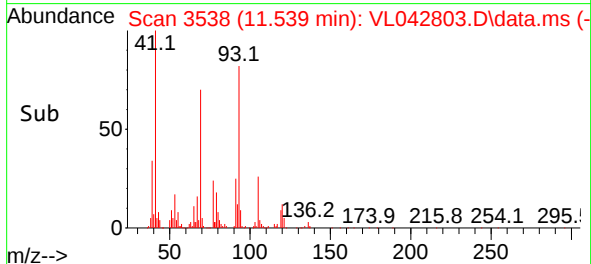
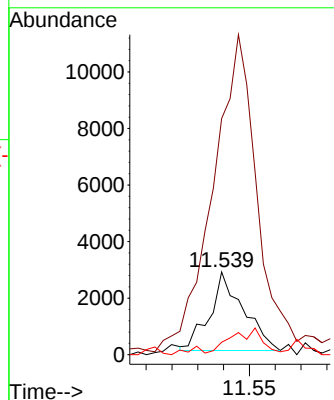
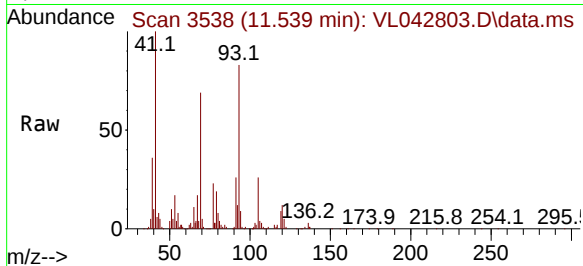




#65
tert-Butylbenzene
Concen: 0.037 ppbv
RT: 11.539 min Scan# 3535
Delta R.T. 0.010 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

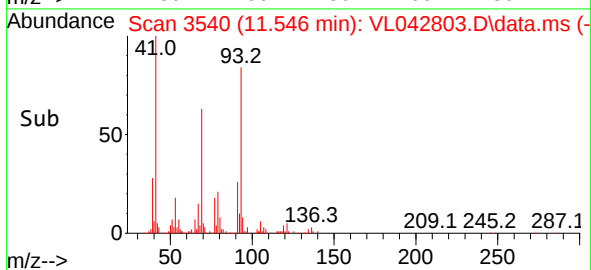
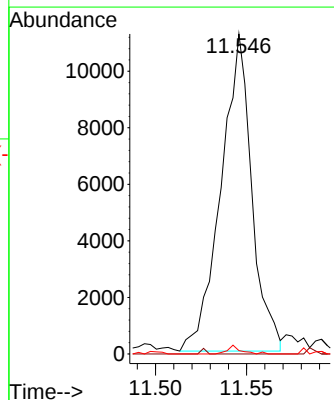
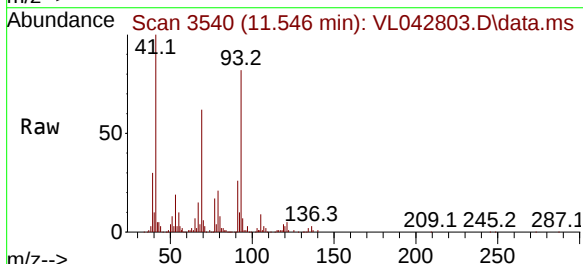
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

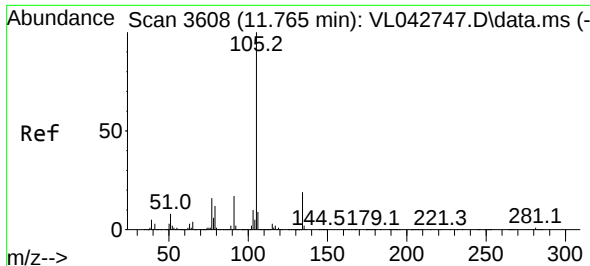
Tgt Ion:119 Resp: 2513
Ion Ratio Lower Upper
119 100
91 540.9 64.0 96.0#
134 50.8 17.3 25.9#



#66
Benzyl Chloride
Concen: 2.377 ppbv
RT: 11.546 min Scan# 3540
Delta R.T. -0.071 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 91 Resp: 13242
Ion Ratio Lower Upper
91 100
126 0.3 14.4 21.6#
128 1.2 5.2 7.8#

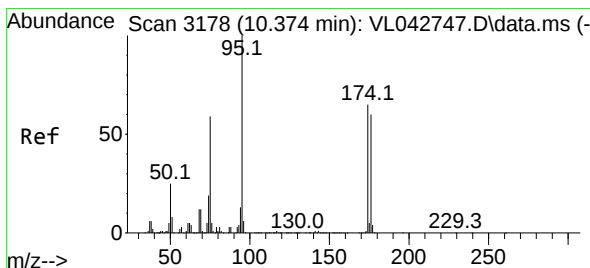
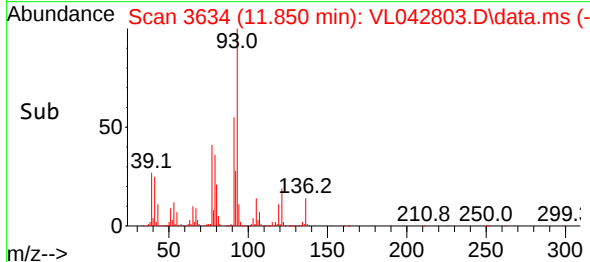
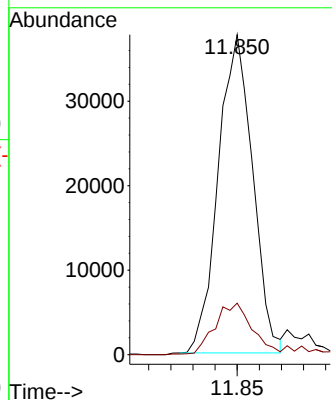
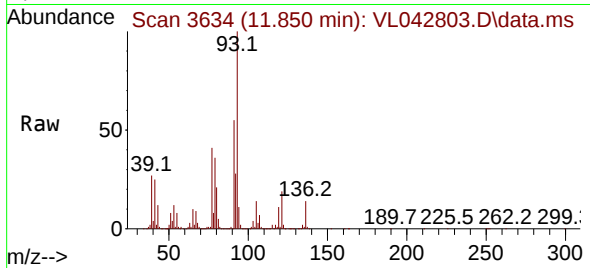




#67
 sec-Butylbenzene
 Concen: 0.422 ppbv
 RT: 11.850 min Scan# 3634
 Delta R.T. 0.085 min
 Lab File: VL042803.D
 Acq: 04 Aug 2025 14:03

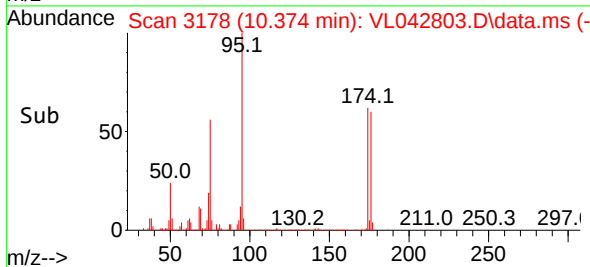
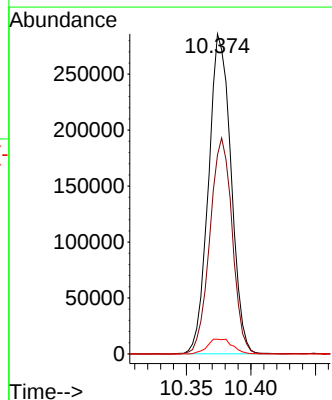
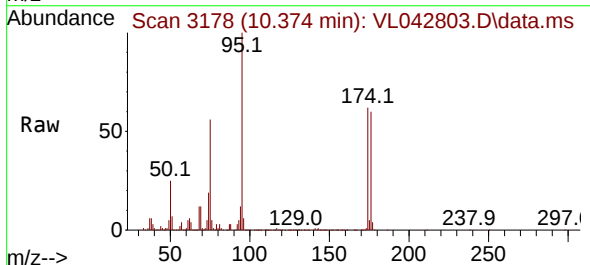
Instrument :
 MSVOA_1
 ClientSampleId :
 WONDER IA-5

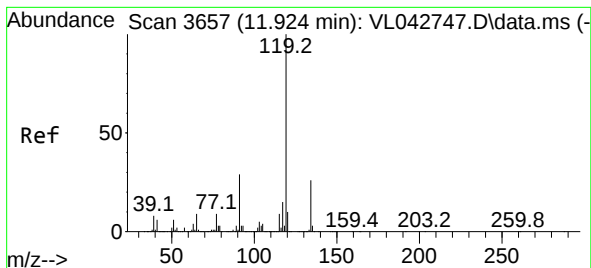
Tgt Ion:105 Resp: 40708
 Ion Ratio Lower Upper
 105 100
 134 19.7 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.645 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. 0.000 min
 Lab File: VL042803.D
 Acq: 04 Aug 2025 14:03

Tgt Ion: 95 Resp: 346200
 Ion Ratio Lower Upper
 95 100
 174 66.9 53.8 80.6
 175 5.2 4.0 6.0

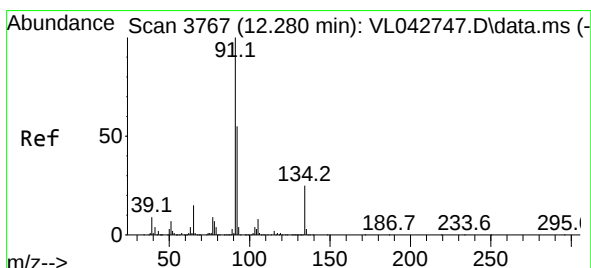
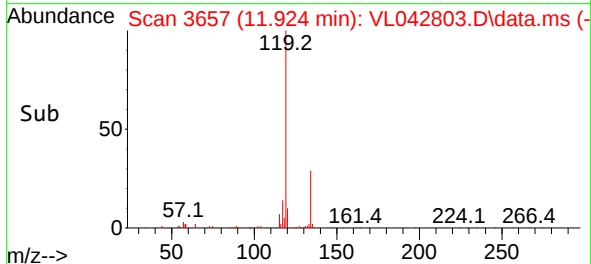
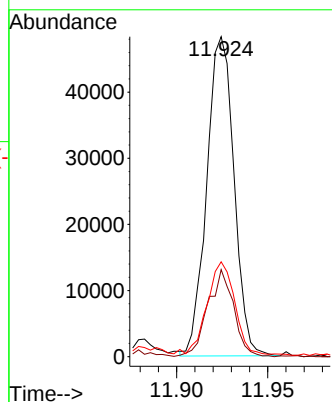
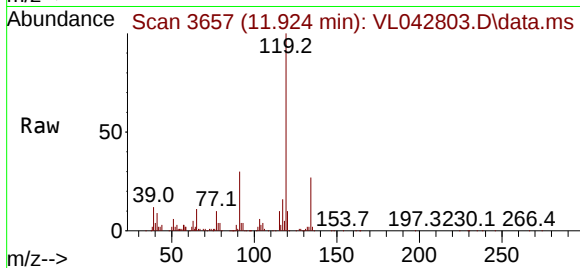




#69
 p-Isopropyltoluene
 Concen: 0.639 ppbv
 RT: 11.924 min Scan# 3657
 Delta R.T. 0.000 min
 Lab File: VL042803.D
 Acq: 04 Aug 2025 14:03

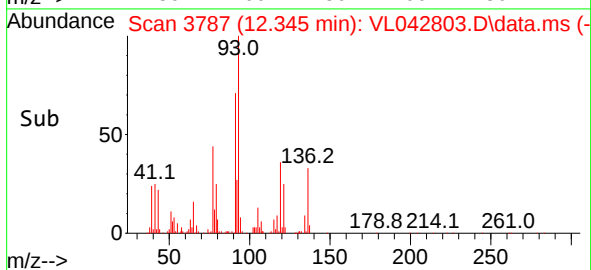
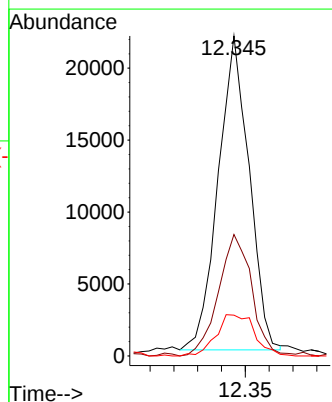
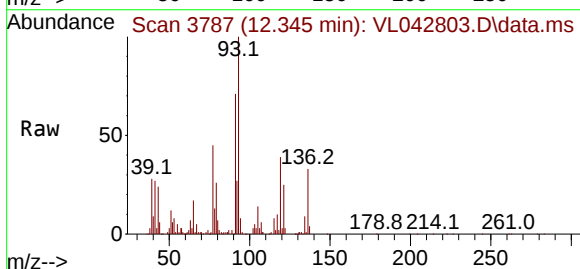
Instrument :
 MSVOA_1
 ClientSampleId :
 WONDER IA-5

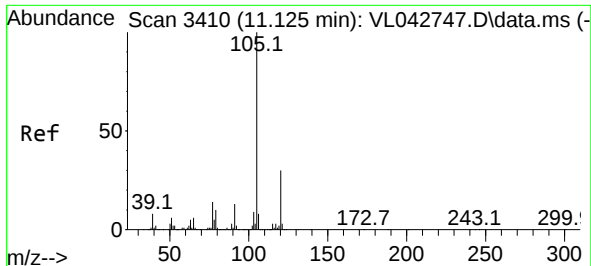
Tgt Ion:119 Resp: 50306
 Ion Ratio Lower Upper
 119 100
 134 26.2 20.6 31.0
 91 29.3 23.2 34.8



#70
 n-Butylbenzene
 Concen: 0.259 ppbv
 RT: 12.345 min Scan# 3787
 Delta R.T. 0.065 min
 Lab File: VL042803.D
 Acq: 04 Aug 2025 14:03

Tgt Ion: 91 Resp: 19680
 Ion Ratio Lower Upper
 91 100
 92 43.3 43.4 65.2#
 134 16.3 19.6 29.4#

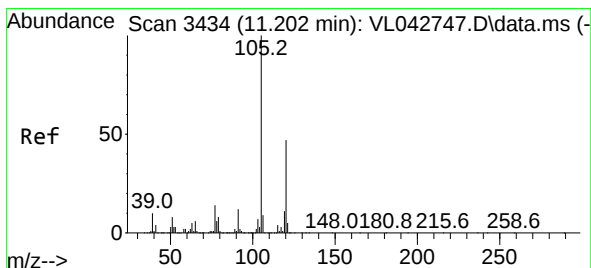
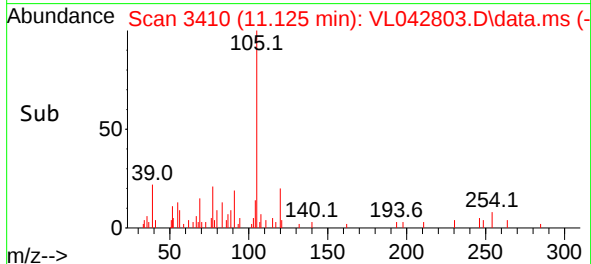
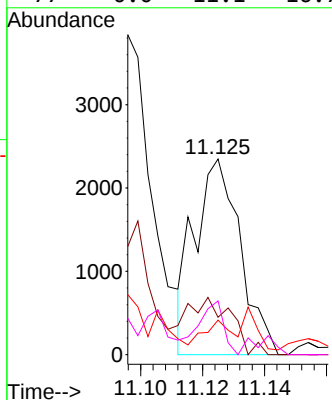
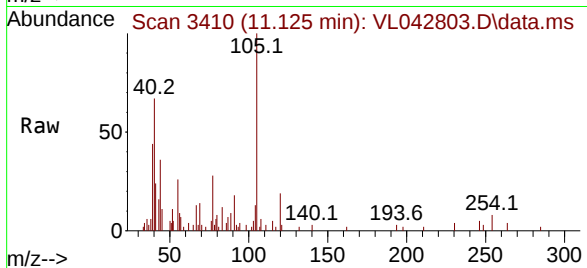




#72
4-Ethyltoluene
Concen: 0.039 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

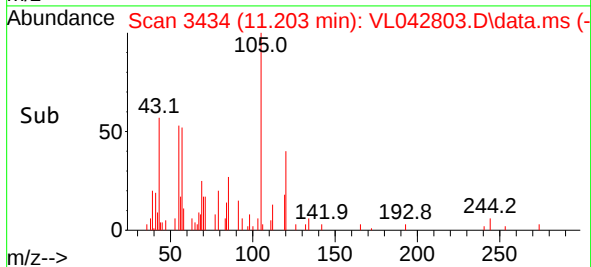
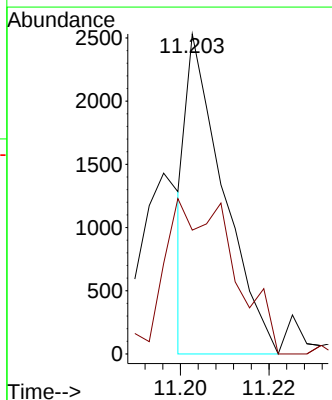
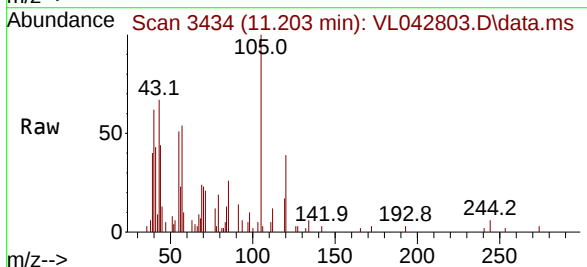
Instrument :
MSVOA_1
ClientSampleId :
WONDER IA-5

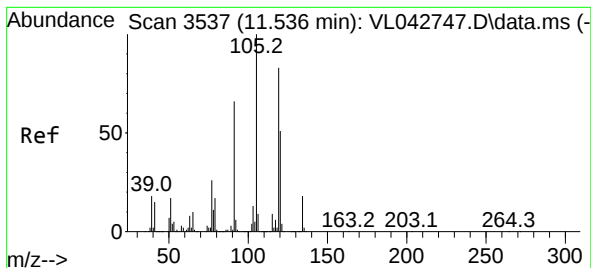
Tgt Ion:	105	Resp:	2403
Ion Ratio	Lower	Upper	
105	100		
120	0.0	24.4	36.6#
91	0.0	10.6	15.8#
77	0.0	11.1	16.7#



#73
1,3,5-Trimethylbenzene
Concen: 0.029 ppbv
RT: 11.203 min Scan# 3434
Delta R.T. 0.000 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion:	105	Resp:	1469
Ion Ratio	Lower	Upper	
105	100		
120	38.7	37.8	56.8





#74

1,2,4-Trimethylbenzene

Concen: 0.179 ppbv

RT: 11.533 min Scan# 3537

Delta R.T. -0.003 min

Lab File: VL042803.D

Acq: 04 Aug 2025 14:03

Instrument :

MSVOA_L

ClientSampleId :

WONDER IA-5

Tgt Ion:105 Resp: 9966

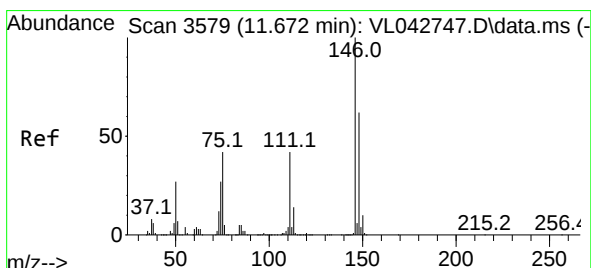
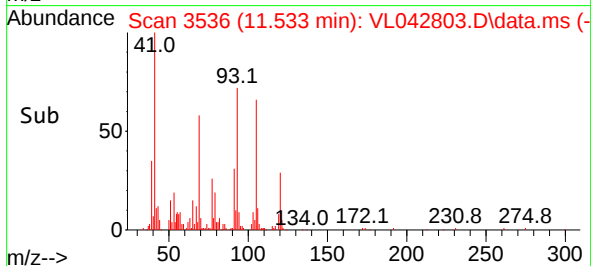
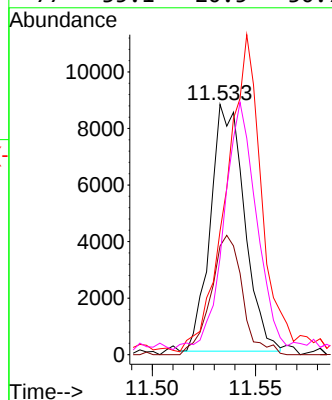
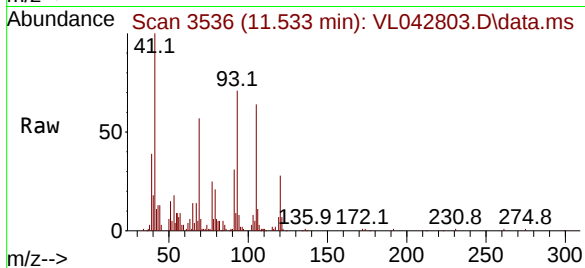
Ion Ratio Lower Upper

105 100

120 44.0 40.8 61.2

91 49.0 53.0 79.4#

77 35.1 20.5 30.7#



#76

1,4-Dichlorobenzene

Concen: 0.060 ppbv

RT: 11.669 min Scan# 3578

Delta R.T. -0.003 min

Lab File: VL042803.D

Acq: 04 Aug 2025 14:03

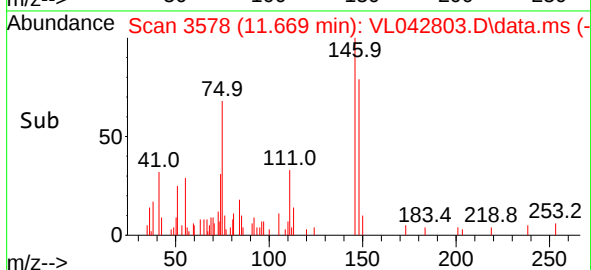
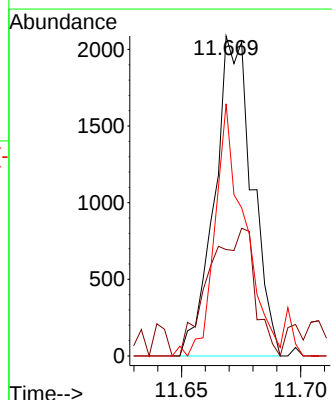
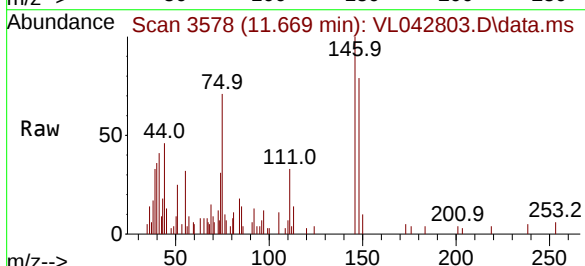
Tgt Ion:146 Resp: 2292

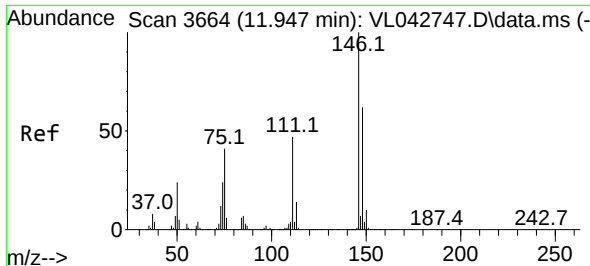
Ion Ratio Lower Upper

146 100

111 67.6 21.4 64.2#

148 65.1 32.1 96.3

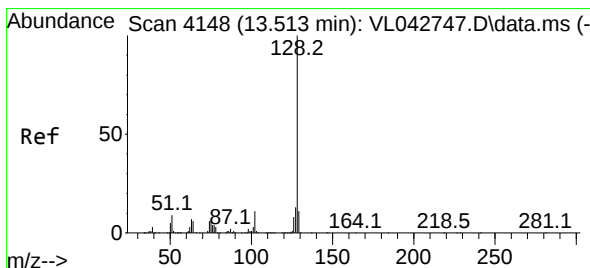
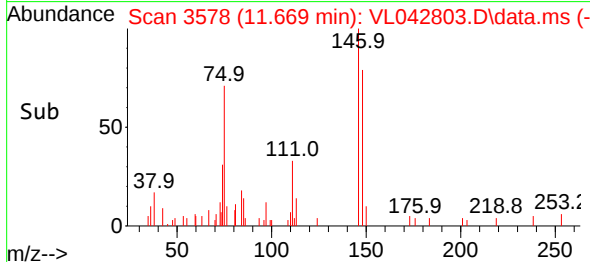
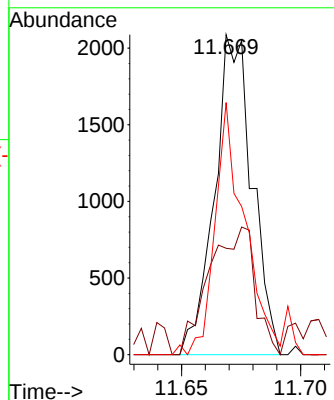
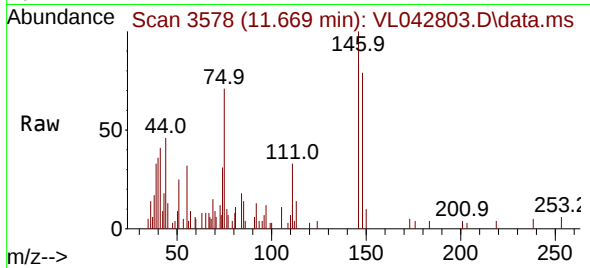




#77
1,2-Dichlorobenzene
Concen: 0.060 ppbv
RT: 11.669 min Scan# 311
Delta R.T. -0.278 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

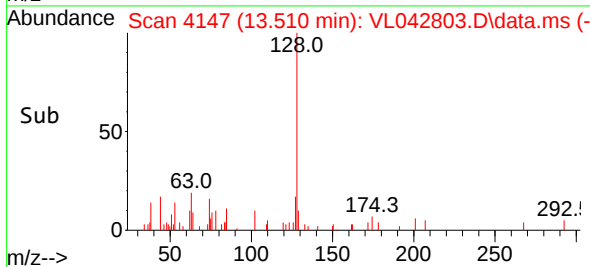
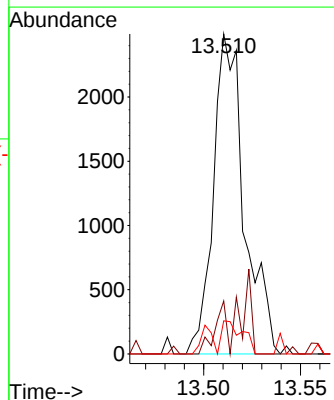
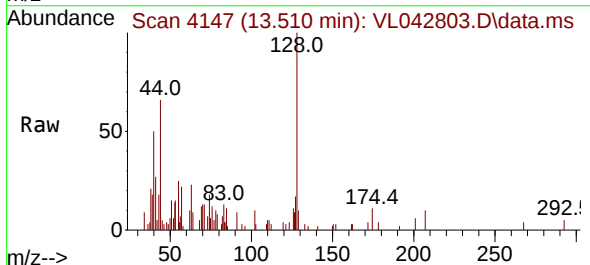
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

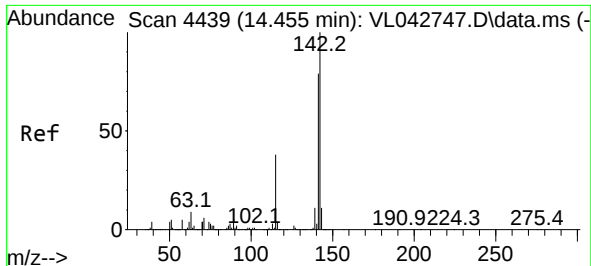
Tgt Ion:	146	Resp:	2292
Ion Ratio	Lower	Upper	
146	100		
111	55.9	23.7	71.1
148	65.1	32.6	97.7



#79
Naphthalene
Concen: 0.479 ppbv
RT: 13.510 min Scan# 4147
Delta R.T. -0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion:	128	Resp:	2763
Ion Ratio	Lower	Upper	
128	100		
127	16.5	10.5	15.7#
129	10.3	8.6	13.0

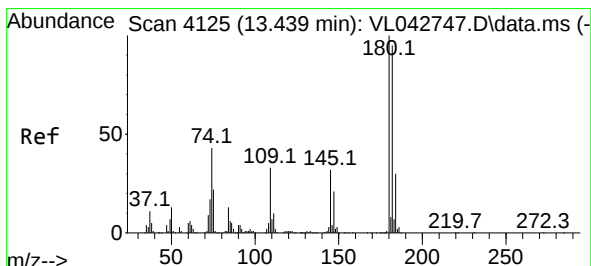
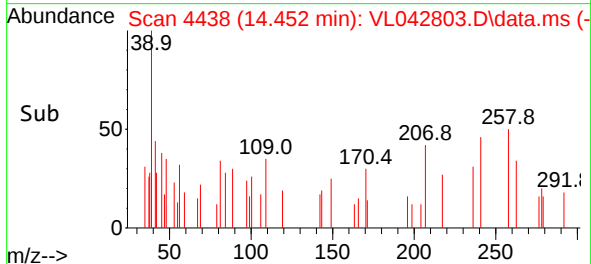
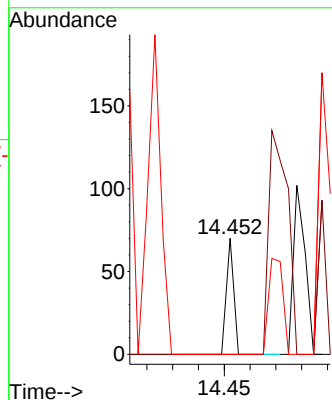
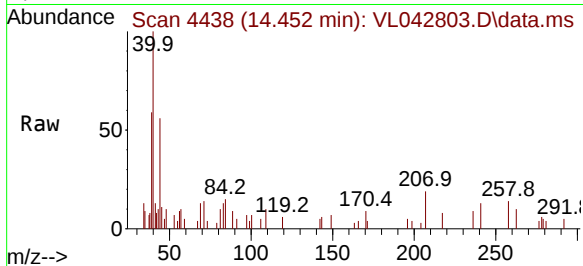




#80
Naphthalene, 2-methyl-
Concen: 1.129 ppbv
RT: 14.452 min Scan# 4439
Delta R.T. -0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Tgt Ion:142 Resp: 14
Ion Ratio Lower Upper
142 100
141 0.0 65.8 98.8#
115 785.7 31.2 46.8#



#81
1,2,4-Trichlorobenzene
Concen: 0.436 ppbv
RT: 13.446 min Scan# 4127
Delta R.T. 0.007 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion:180 Resp: 38
Ion Ratio Lower Upper
180 100
182 0.0 76.2 114.2#
184 0.0 24.8 37.2#

