

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
 Data File : VL042801.D
 Acq On : 04 Aug 2025 12:56
 Operator : SY/MD
 Sample : Q2750-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 WONDER IA-3

Quant Time: Aug 05 01:03:32 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	166612	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	474561	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	413546	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	344382	10.515	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.200%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.473	85	35749	1.623	ppbv	99
3) Chlorodifluoromethane	1.473	51	1610964	56.139	ppbv #	82
4) Chloromethane	1.531	50	5658	0.635	ppbv	90
5) Vinyl Chloride	1.486	62	1330	0.151	ppbv #	37
6) Bromomethane	1.661	94	174	0.051	ppbv	93
7) Chloroethane	1.700	64	345	0.101	ppbv #	35
8) Dichlorotetrafluoroethane	1.496	85	12177	0.672	ppbv #	21
9) Propene	1.557	41	647804	62.113	ppbv	96
10) Heptane	4.975	43	2899	0.103	ppbv #	27
11) Trichlorofluoromethane	1.874	101	4819	0.212	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.137	101	1393	0.081	ppbv	87
13) Ethanol	1.725	45	4909025	6463.202	ppbv	94
15) Acetone	1.832	43	2255724	98.047	ppbv #	78
16) 1,3-Butadiene	1.557	39	320001	32.609	ppbv #	16
17) tert-Butyl alcohol	1.975	59	7088595	341.627	ppbv	97
19) Isopropyl Alcohol	1.991	45	26462371	2164.446	ppbv #	38
20) Methylene Chloride	2.062	84	11537	1.591	ppbv	95
21) Allyl Chloride	1.991	41	13700738	966.253	ppbv #	78
23) Vinyl Acetate	2.473	43	32455	1.164	ppbv #	76
24) 1,1-Dichloroethane	2.781	63	461	0.027	ppbv #	94
25) Ethyl Acetate	2.842	43	279610	5.491	ppbv #	46
26) Hexane	2.823	57	38882	1.741	ppbv #	1
27) Carbon Disulfide	2.146	76	64759	3.386	ppbv #	65
29) Chloroform	2.849	83	19459	0.564	ppbv	92
30) Cyclohexane	3.862	84	919	0.049	ppbv #	1
31) cis-1,2-Dichloroethene	2.839	61	29364	1.279	ppbv #	23
34) 2-Butanone	2.567	43	38173	1.136	ppbv	93
35) Carbon Tetrachloride	3.758	117	1236	0.035	ppbv #	84
36) Benzene	3.655	78	12792	0.284	ppbv #	85
39) 1,2-Dichloropropane	3.956	63	117534	7.080	ppbv #	21
41) Tetrahydrofuran	3.069	42	2916	0.170	ppbv #	75
43) Methyl Methacrylate	4.875	69	933	0.058	ppbv #	1
44) 2,2,4-Trimethylpentane	4.635	57	5675	0.077	ppbv #	28
53) Toluene	6.933	91	18109	0.375	ppbv #	21
58) Ethyl Benzene	9.351	91	4937	0.076	ppbv	98
59) m/p-Xylene	9.548	91	2921	0.056	ppbv #	30
60) o-Xylene	9.966	91	1849	0.035	ppbv #	32
61) Styrene	9.869	104	4962	0.226	ppbv	95
62) Isopropylbenzene	10.536	105	1553	0.020	ppbv #	81
65) tert-Butylbenzene	11.539	119	2516	0.037	ppbv #	1
66) Benzyl Chloride	11.545	91	11984	2.136	ppbv #	67
67) sec-Butylbenzene	11.850	105	41419	0.426	ppbv	97
69) p-Isopropyltoluene	11.927	119	52018	0.656	ppbv	93

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Instrument :
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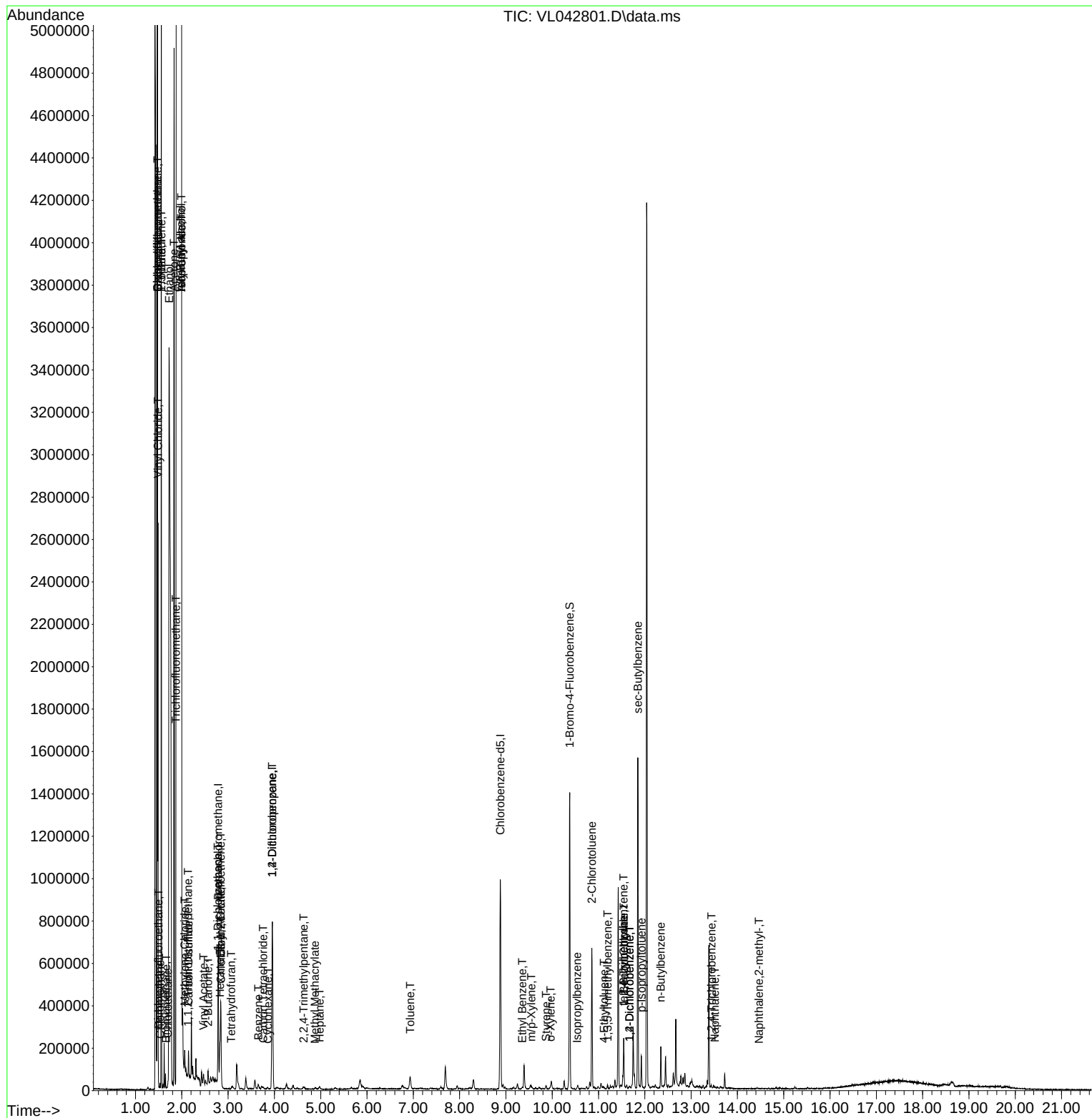
Quant Time: Aug 05 01:03:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 2025
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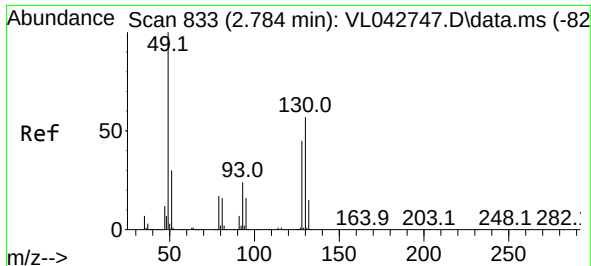
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

70) n-Butylbenzene	12.345	91	20159	0.263	ppbv	88
71) 2-Chlorotoluene	10.856	91	79400	1.346	ppbv #	45
72) 4-Ethyltoluene	11.121	105	1700	0.027	ppbv #	79
73) 1,3,5-Trimethylbenzene	11.199	105	1578	0.031	ppbv #	68
74) 1,2,4-Trimethylbenzene	11.539	105	8019	0.143	ppbv #	58
76) 1,4-Dichlorobenzene	11.668	146	2073	0.054	ppbv #	72
77) 1,2-Dichlorobenzene	11.668	146	2073	0.054	ppbv	76
79) Naphthalene	13.513	128	2540	0.475	ppbv #	96
80) Naphthalene,2-methyl-	14.468	142	271	1.136	ppbv #	31
81) 1,2,4-Trichlorobenzene	13.439	180	247	0.442	ppbv #	84

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

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

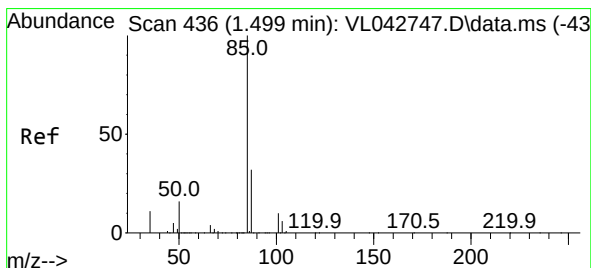
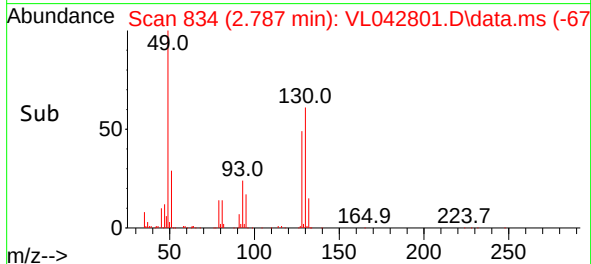
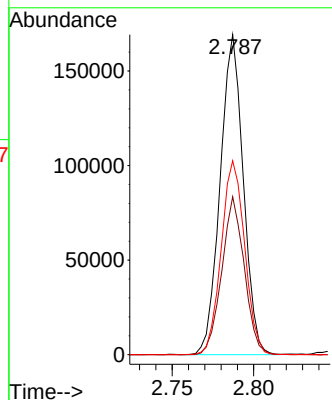
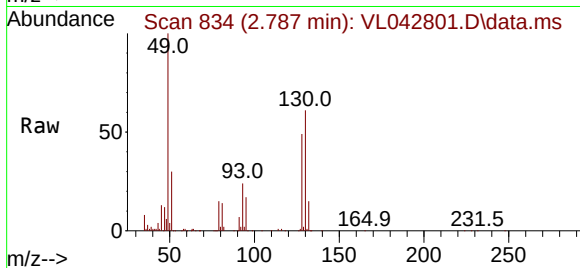




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

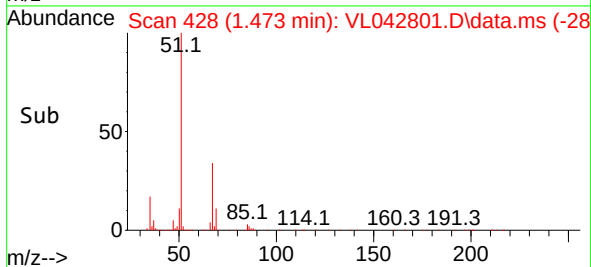
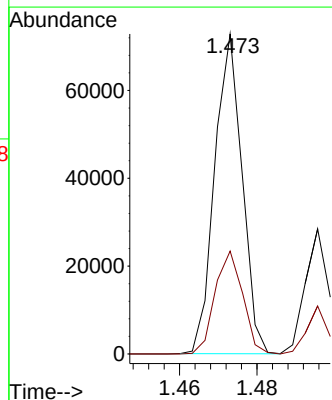
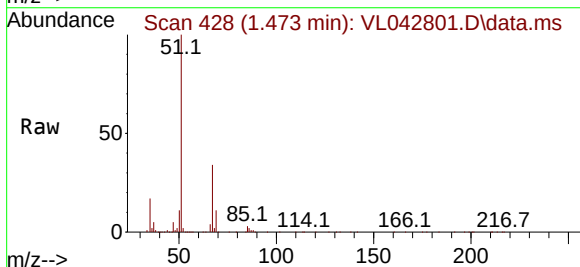
Instrument :
MSVOA_1
ClientSampleId :
WONDER IA-3

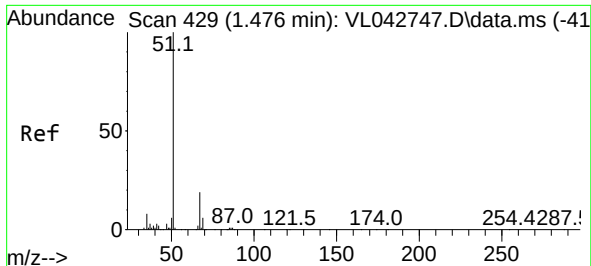
Tgt Ion: 49 Resp: 166612
Ion Ratio Lower Upper
49 100
128 48.0 23.6 71.0
130 61.6 30.3 90.8



#2
Dichlorodifluoromethane
Concen: 1.623 ppbv
RT: 1.473 min Scan# 428
Delta R.T. -0.026 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 85 Resp: 35749
Ion Ratio Lower Upper
85 100
87 32.2 25.4 38.2

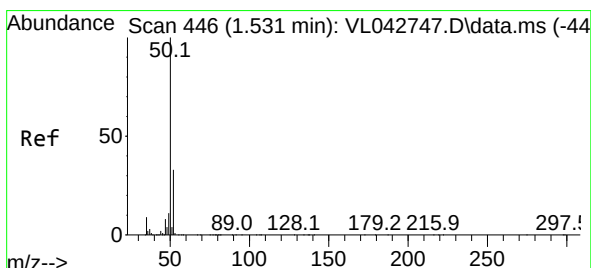
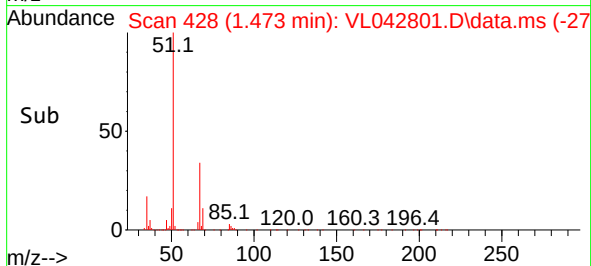
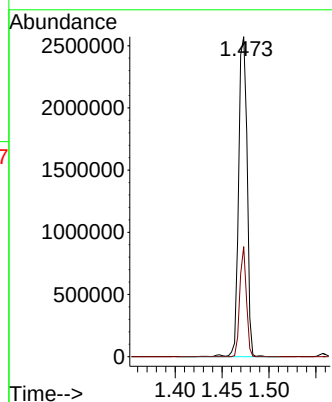
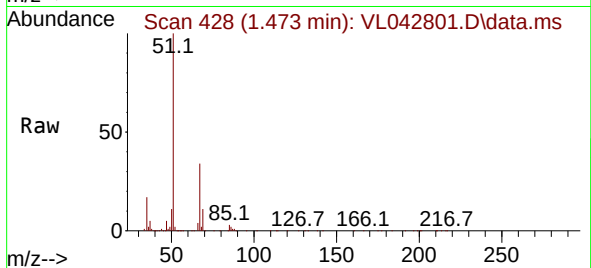




#3
Chlorodifluoromethane
Concen: 56.139 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

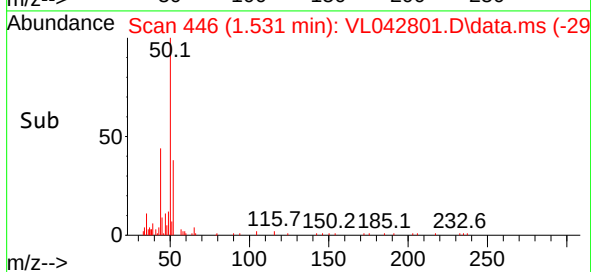
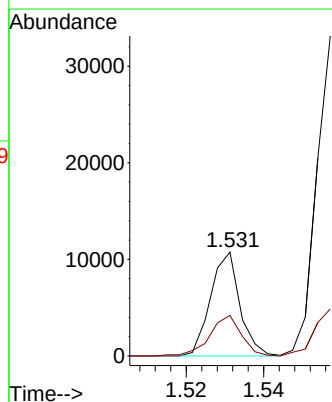
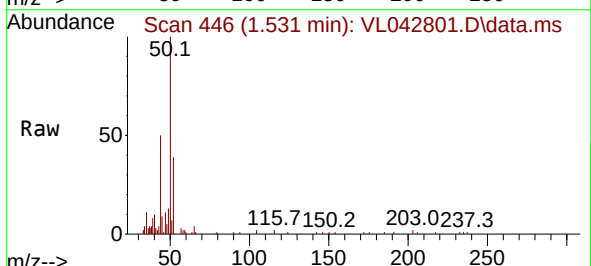
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

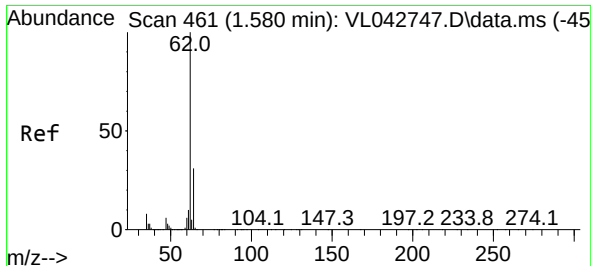
Tgt Ion: 51 Resp: 1610964
Ion Ratio Lower Upper
51 100
67 26.7 15.0 22.6#



#4
Chloromethane
Concen: 0.635 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 50 Resp: 5658
Ion Ratio Lower Upper
50 100
52 38.9 26.6 40.0

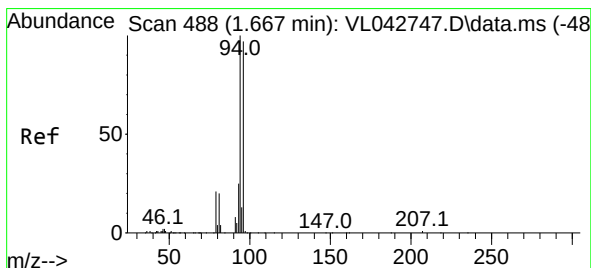
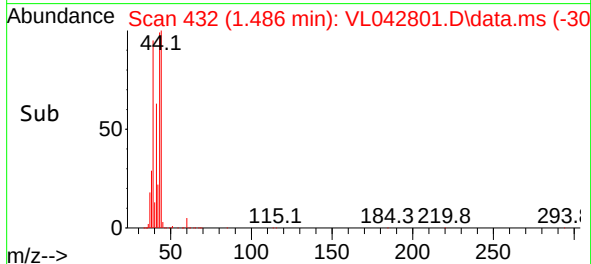
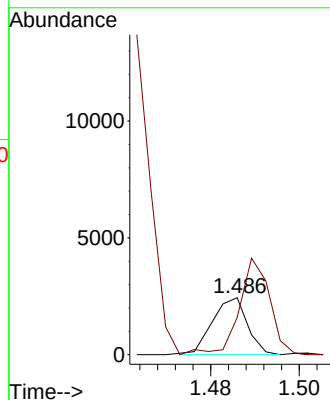
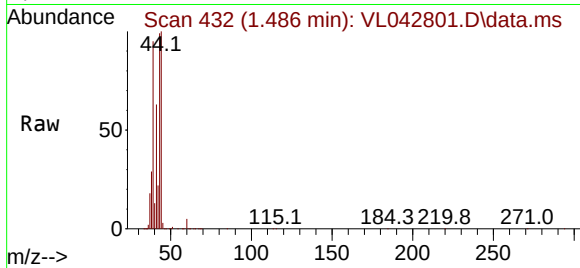




#5
 Vinyl Chloride
 Concen: 0.151 ppbv
 RT: 1.486 min Scan# 41
 Delta R.T. -0.094 min
 Lab File: VL042801.D
 Acq: 04 Aug 2025 12:56

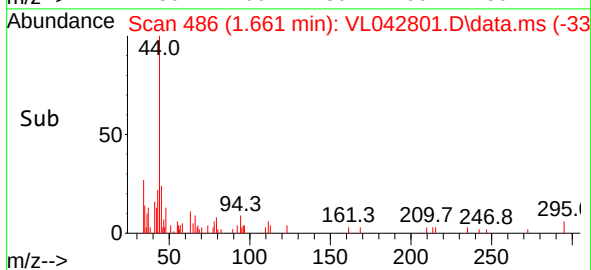
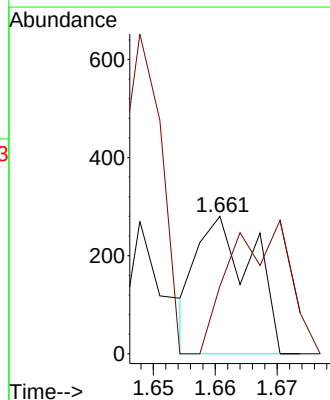
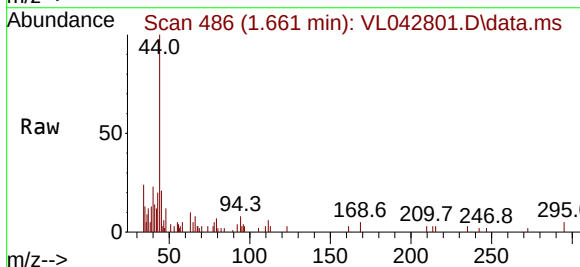
Instrument :
 MSVOA_1
 ClientSampleId :
 WONDER IA-3

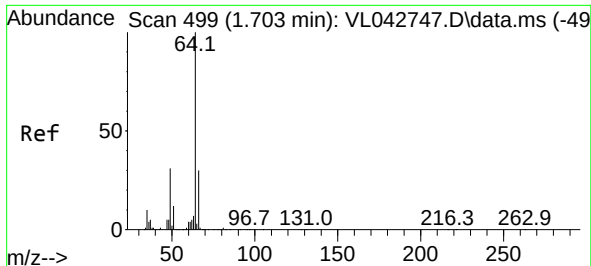
Tgt Ion: 62 Resp: 1330
 Ion Ratio Lower Upper
 62 100
 64 65.1 24.5 36.7#



#6
 Bromomethane
 Concen: 0.051 ppbv
 RT: 1.661 min Scan# 486
 Delta R.T. -0.006 min
 Lab File: VL042801.D
 Acq: 04 Aug 2025 12:56

Tgt Ion: 94 Resp: 174
 Ion Ratio Lower Upper
 94 100
 96 90.4 77.6 116.4

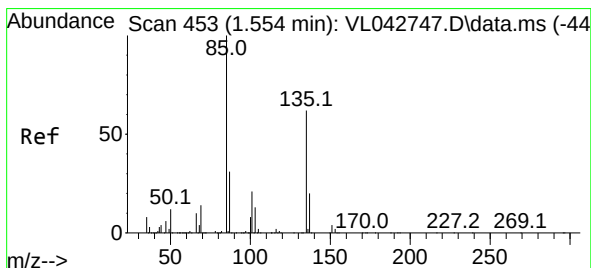
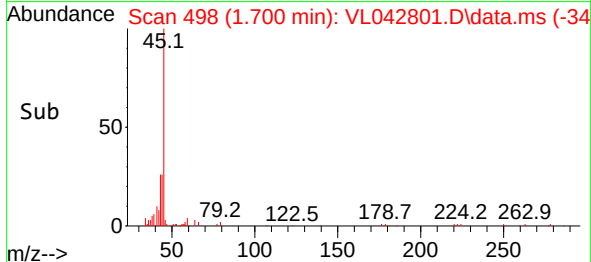
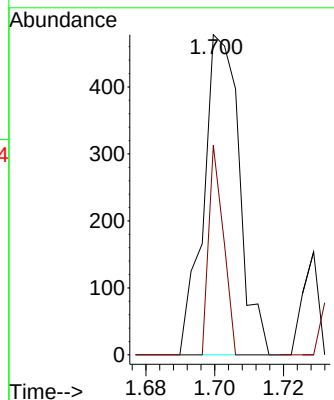
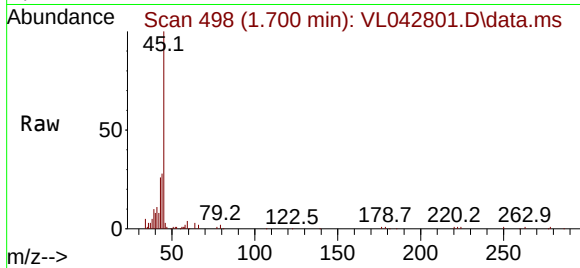




#7
Chloroethane
Concen: 0.101 ppbv
RT: 1.700 min Scan# 499
Delta R.T. -0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

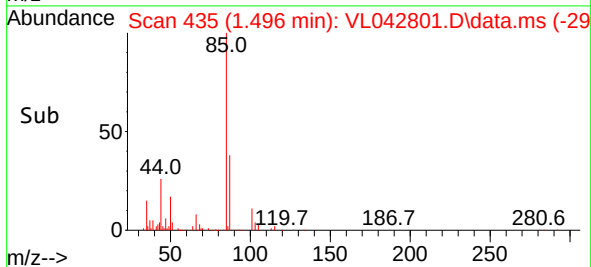
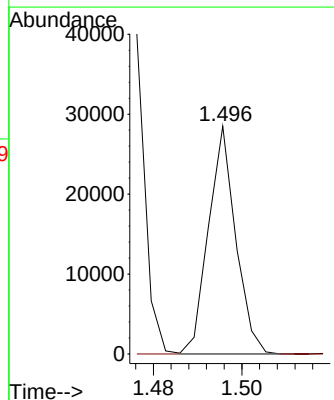
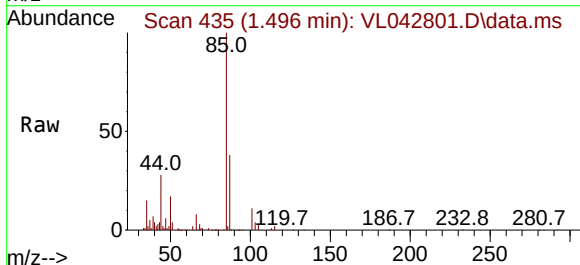
Instrument :
MSVOA_1
ClientSampleId :
WONDER IA-3

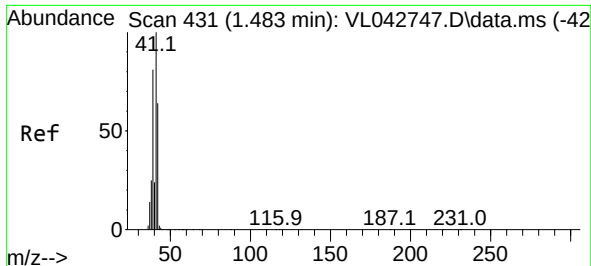
Tgt Ion: 64 Resp: 345
Ion Ratio Lower Upper
64 100
66 65.5 24.1 36.1#



#8
Dichlorotetrafluoroethane
Concen: 0.672 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.058 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 85 Resp: 12177
Ion Ratio Lower Upper
85 100
135 1.8 50.6 76.0#





#9

Propene

Concen: 62.113 ppbv

RT: 1.557 min Scan# 41

Delta R.T. 0.075 min

Lab File: VL042801.D

Acq: 04 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

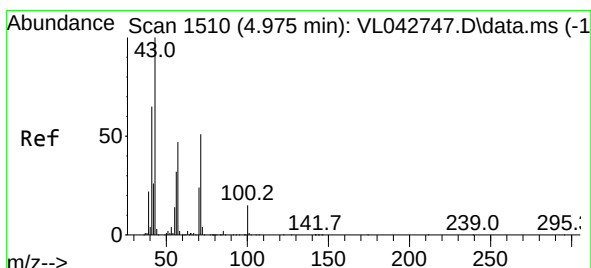
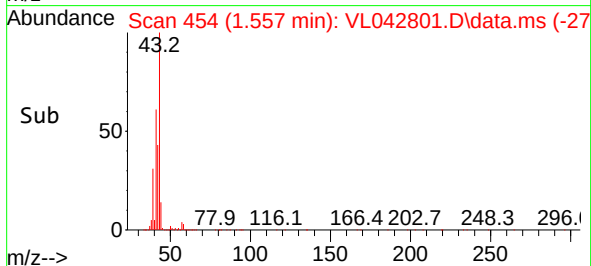
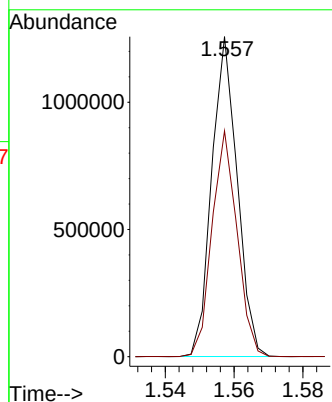
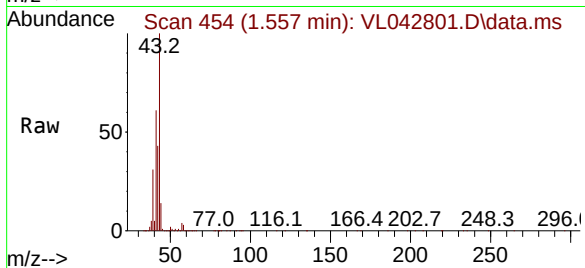
WONDER IA-3

Tgt Ion: 41 Resp: 647804

Ion Ratio Lower Upper

41 100

42 69.5 53.2 79.8



#10

Heptane

Concen: 0.103 ppbv

RT: 4.975 min Scan# 1510

Delta R.T. 0.000 min

Lab File: VL042801.D

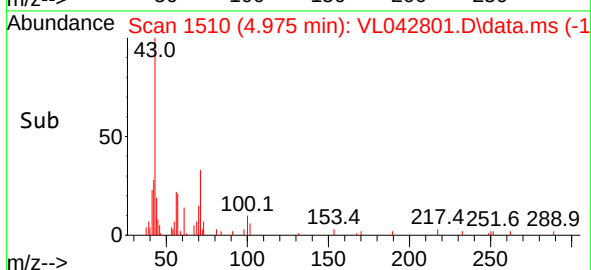
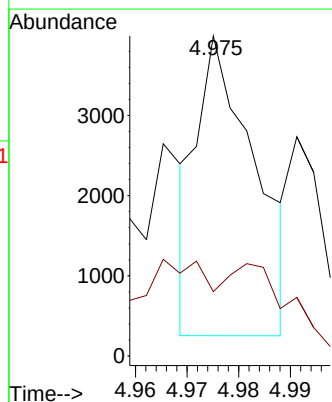
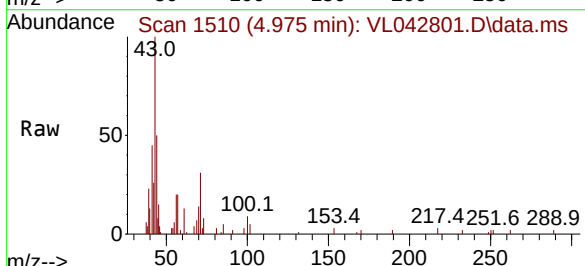
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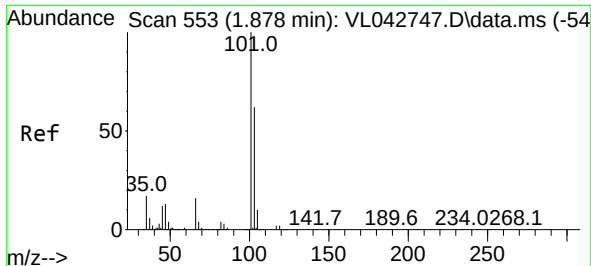
Tgt Ion: 43 Resp: 2899

Ion Ratio Lower Upper

43 100

57 0.0 39.9 59.9#

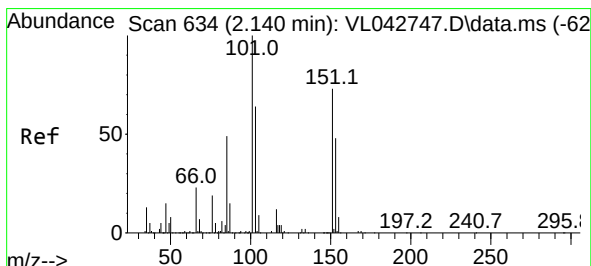
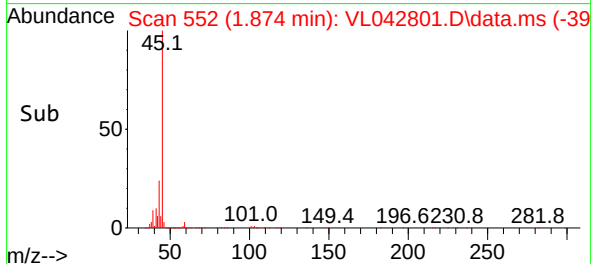
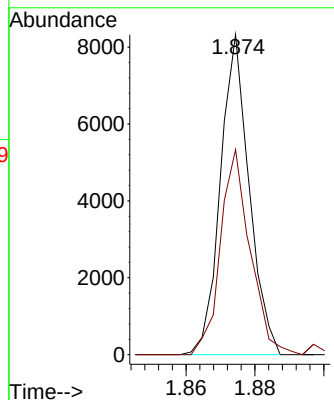
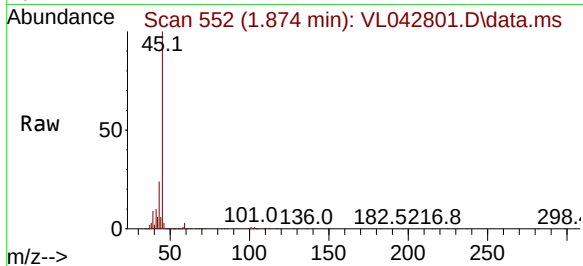




#11
Trichlorofluoromethane
Concen: 0.212 ppbv
RT: 1.874 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

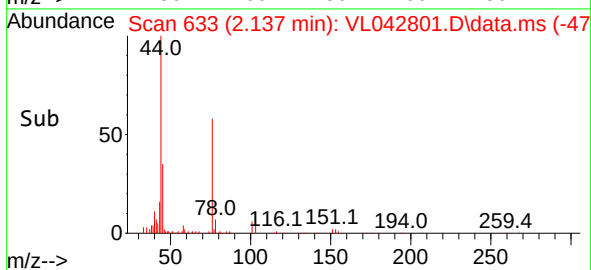
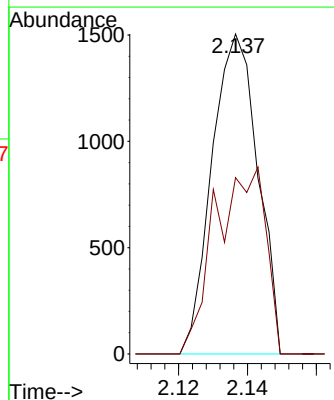
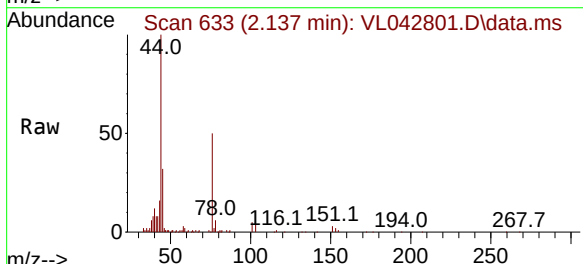
Instrument :
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WONDER IA-3

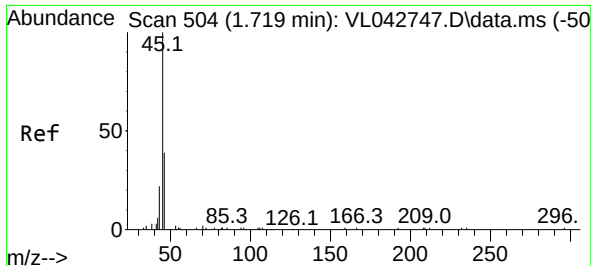
Tgt Ion:101 Resp: 4819
Ion Ratio Lower Upper
101 100
103 64.1 49.6 74.4



#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.081 ppbv
RT: 2.137 min Scan# 633
Delta R.T. -0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion:101 Resp: 1393
Ion Ratio Lower Upper
101 100
151 64.2 60.5 90.7

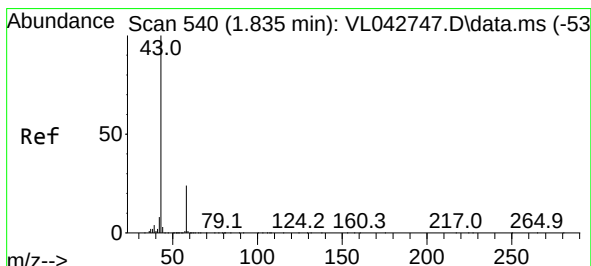
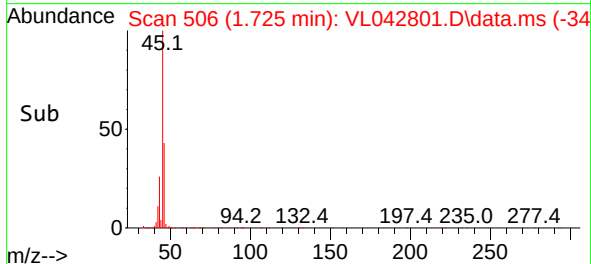
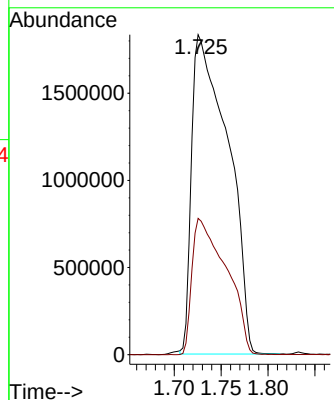
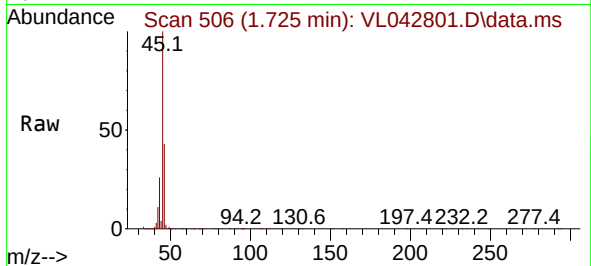




#13
Ethanol
Concen: 6463.202 ppbv
RT: 1.725 min Scan# 504
Delta R.T. 0.007 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

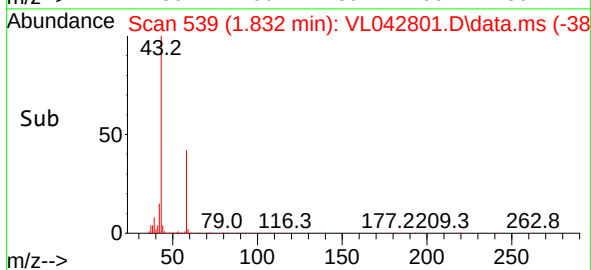
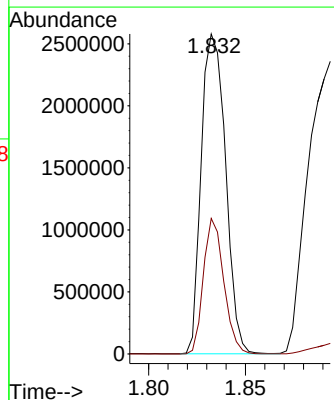
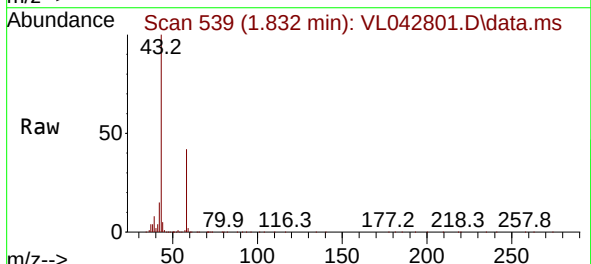
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

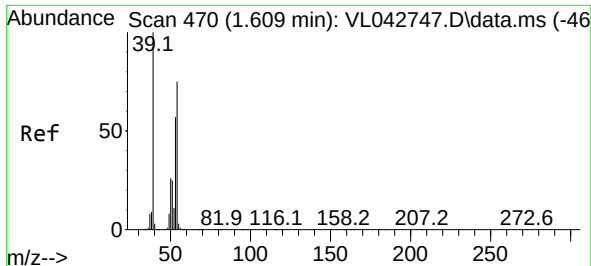
Tgt Ion: 45 Resp: 4909025
Ion Ratio Lower Upper
45 100
46 40.7 17.8 71.4



#15
Acetone
Concen: 98.047 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 43 Resp: 2255724
Ion Ratio Lower Upper
43 100
58 35.6 19.8 29.8#

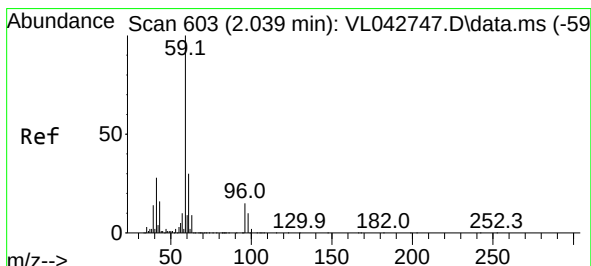
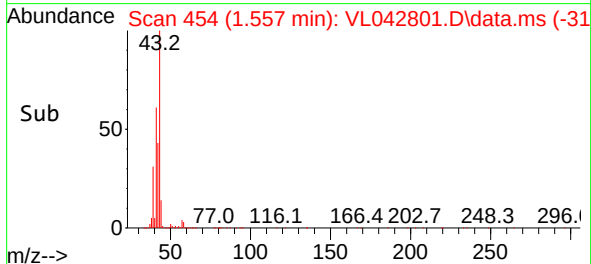
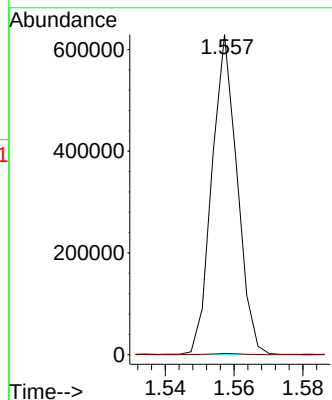
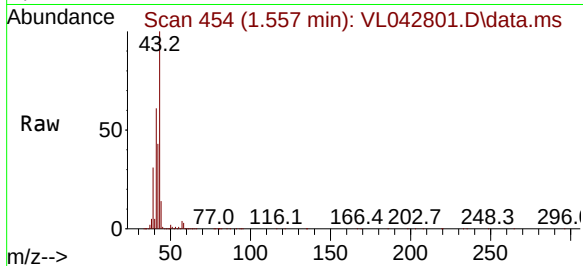




#16
1,3-Butadiene
Concen: 32.609 ppbv
RT: 1.557 min Scan# 41
Delta R.T. -0.052 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

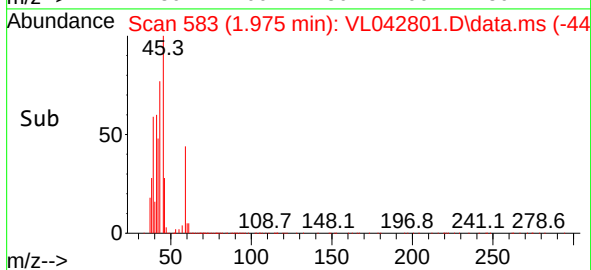
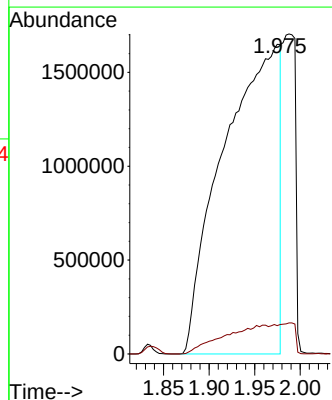
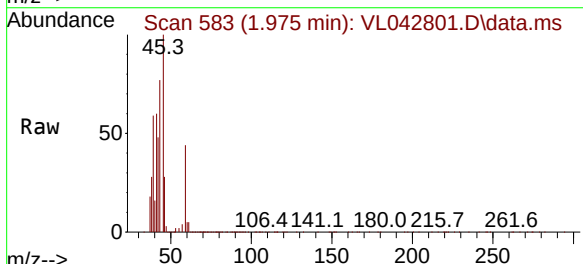
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

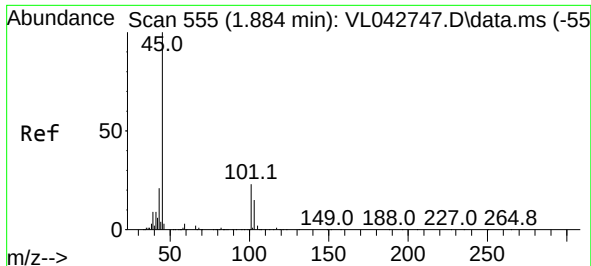
Tgt Ion: 39 Resp: 320001
Ion Ratio Lower Upper
39 100
54 0.5 54.5 81.7#



#17
tert-Butyl alcohol
Concen: 341.627 ppbv
RT: 1.975 min Scan# 583
Delta R.T. -0.065 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 59 Resp: 7088595
Ion Ratio Lower Upper
59 100
57 11.4 8.3 12.5

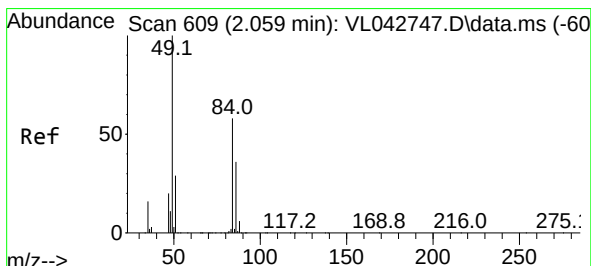
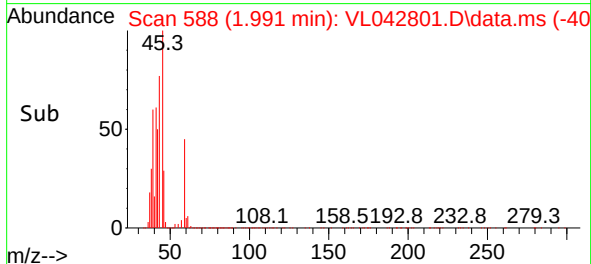
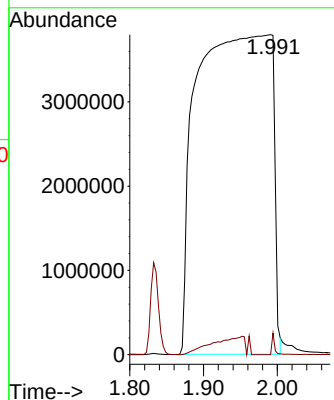
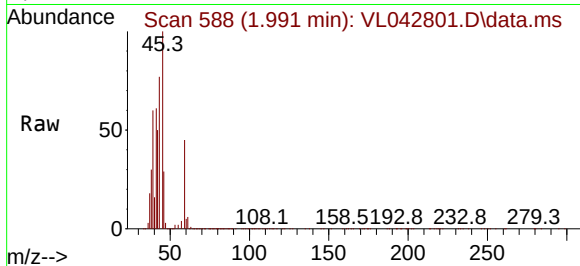




#19
Isopropyl Alcohol
Concen: 2164.446 ppbv
RT: 1.991 min Scan# 588
Delta R.T. 0.107 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

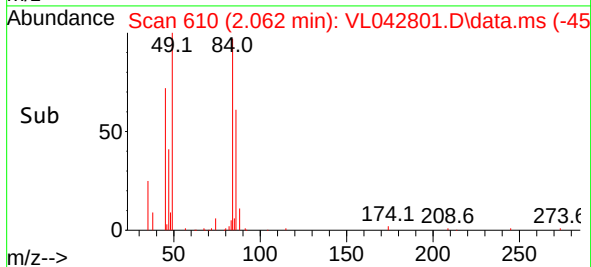
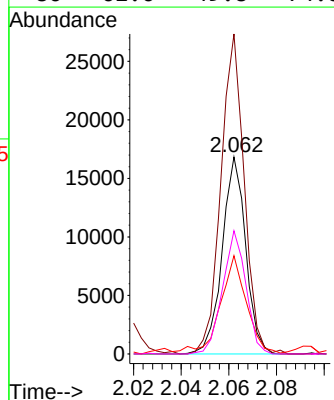
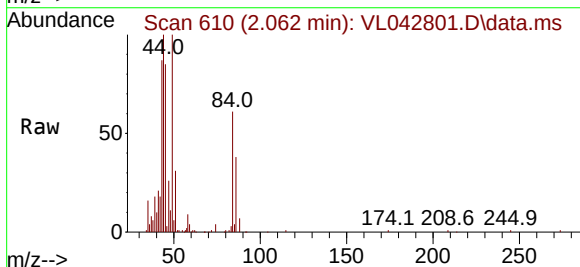
Instrument :
MSVOA_1
ClientSampleId :
WONDER IA-3

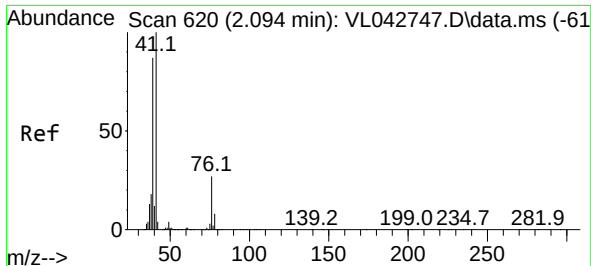
Tgt Ion: 45 Resp:26462371
Ion Ratio Lower Upper
45 100
58 0.3 30.0 45.0#



#20
Methylene Chloride
Concen: 1.591 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 84 Resp: 11537
Ion Ratio Lower Upper
84 100
49 162.5 138.6 208.0
51 49.4 40.6 61.0
86 62.6 49.8 74.8

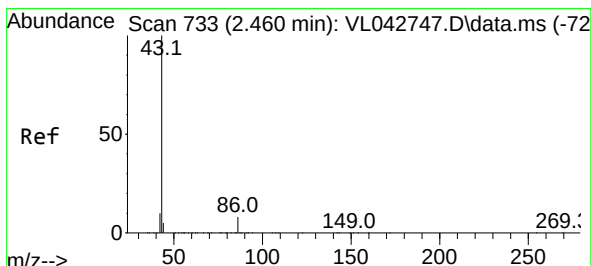
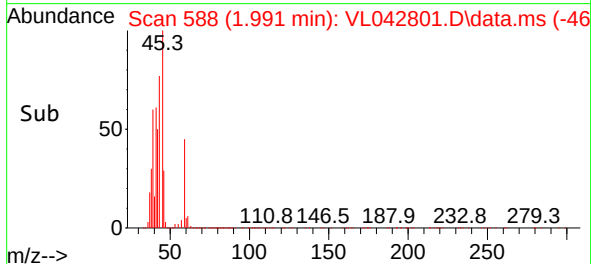
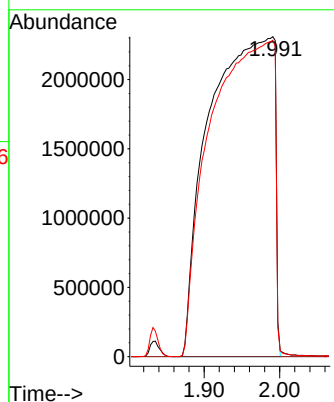
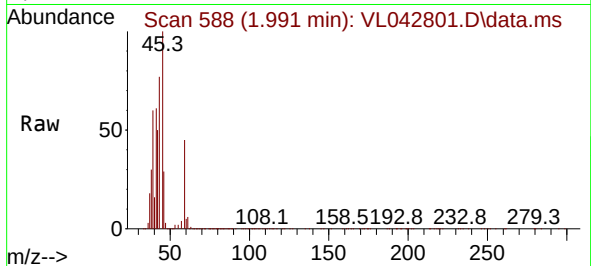




#21
 Allyl Chloride
 Concen: 966.253 ppbv
 RT: 1.991 min Scan# 51
 Delta R.T. -0.103 min
 Lab File: VL042801.D
 Acq: 04 Aug 2025 12:56

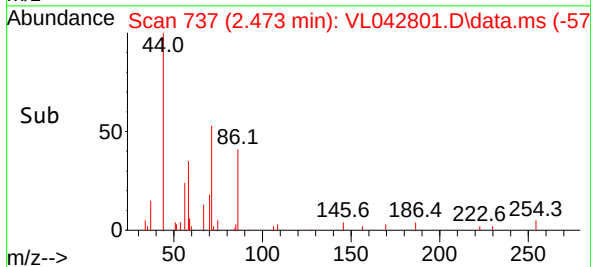
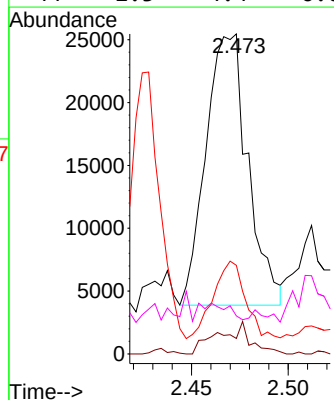
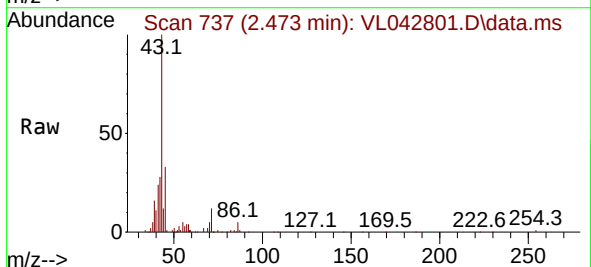
Instrument :
 MSVOA_L
 ClientSampleId :
 WONDER IA-3

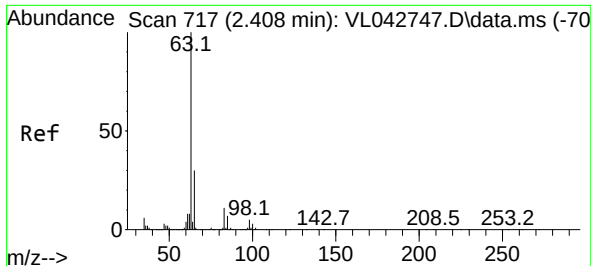
Tgt Ion: 41 Resp:13700738
 Ion Ratio Lower Upper
 41 100
 76 0.5 21.1 31.7#
 39 97.1 68.3 102.5



#23
 Vinyl Acetate
 Concen: 1.164 ppbv
 RT: 2.473 min Scan# 737
 Delta R.T. 0.013 min
 Lab File: VL042801.D
 Acq: 04 Aug 2025 12:56

Tgt Ion: 43 Resp: 32455
 Ion Ratio Lower Upper
 43 100
 86 5.4 6.1 9.1#
 42 26.7 7.8 11.8#
 44 2.3 4.4 6.6#

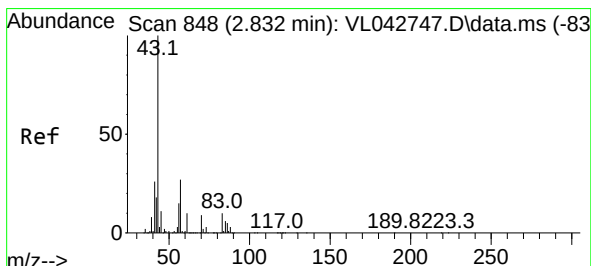
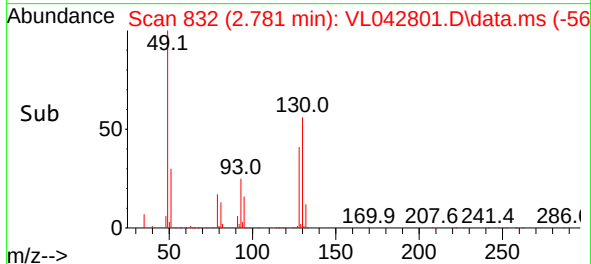
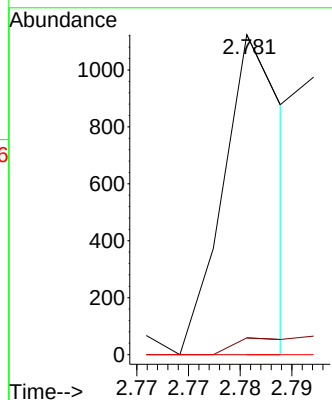
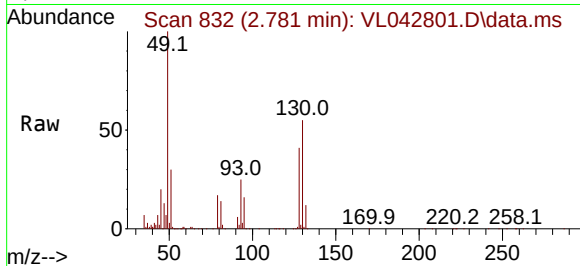




#24
1,1-Dichloroethane
Concen: 0.027 ppbv
RT: 2.781 min Scan# 81
Delta R.T. 0.372 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

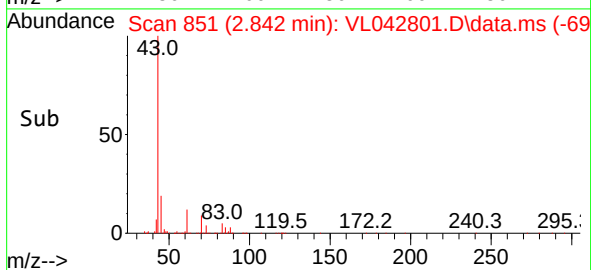
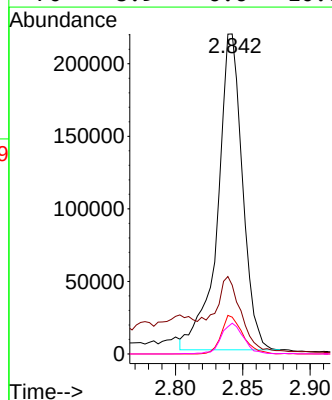
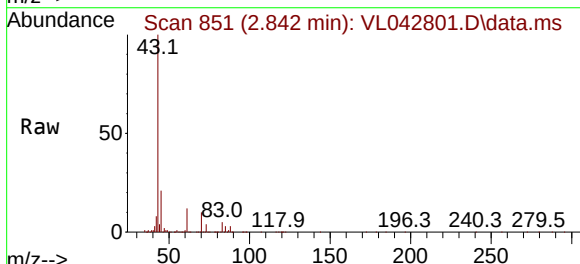
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

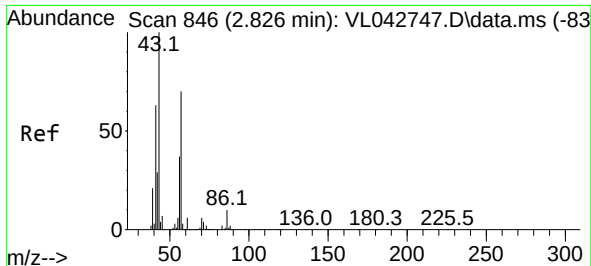
Tgt Ion: 63	Resp:	461
Ion Ratio	Lower	Upper
63	100	
98	3.5	2.5 7.4
100	0.0	1.6 4.8#



#25
Ethyl Acetate
Concen: 5.491 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.010 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 43	Resp:	279610
Ion Ratio	Lower	Upper
43	100	
45	60.9	7.8 11.6#
61	10.5	6.7 10.1#
70	8.9	6.6 10.0

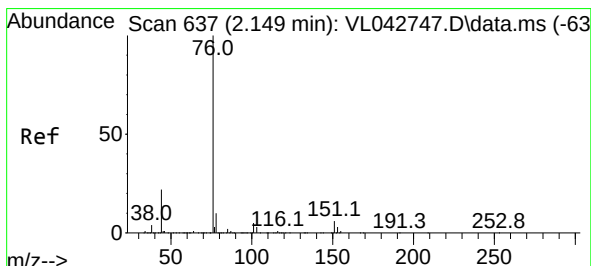
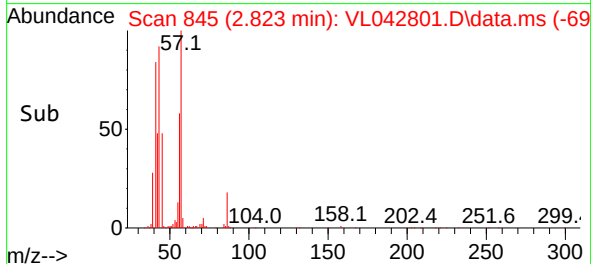
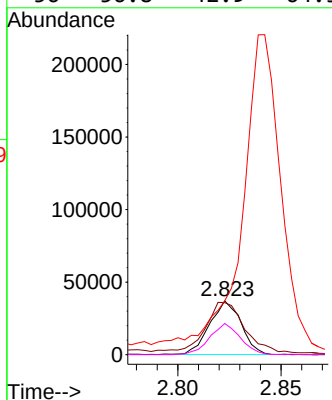
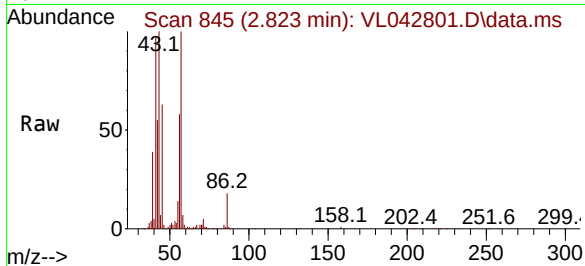




#26
Hexane
Concen: 1.741 ppbv
RT: 2.823 min Scan# 846
Delta R.T. -0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

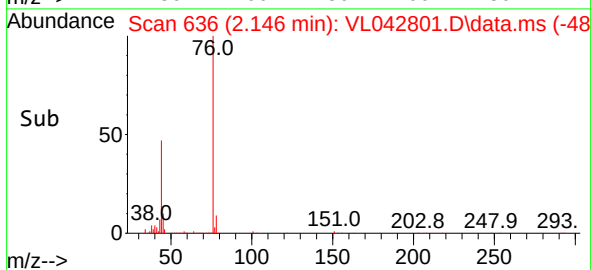
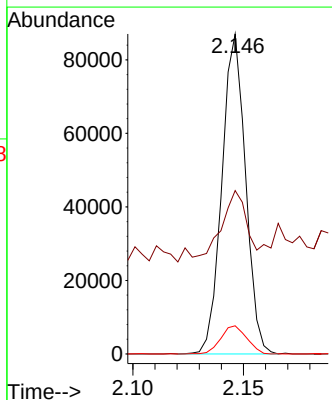
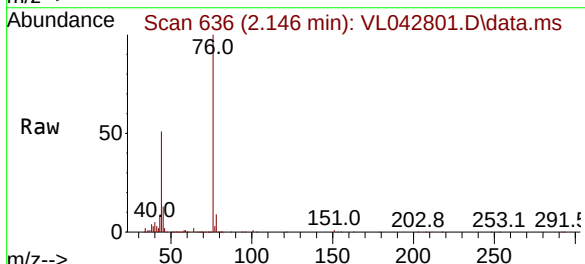
Instrument :
MSVOA_1
ClientSampleId :
WONDER IA-3

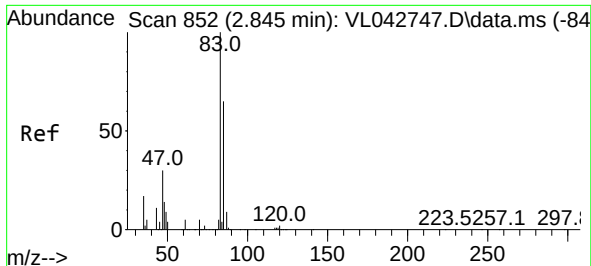
Tgt Ion: 57 Resp: 38882
Ion Ratio Lower Upper
57 100
41 138.8 75.4 113.2#
43 810.0 185.0 277.6#
56 56.8 42.9 64.3



#27
Carbon Disulfide
Concen: 3.386 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 76 Resp: 64759
Ion Ratio Lower Upper
76 100
44 0.0 19.3 28.9#
78 9.7 9.9 14.9#





#29

Chloroform

Concen: 0.564 ppbv

RT: 2.849 min Scan# 8

Delta R.T. 0.003 min

Lab File: VL042801.D

Acq: 04 Aug 2025 12:56

Instrument :

MSVOA_1

ClientSampleId :

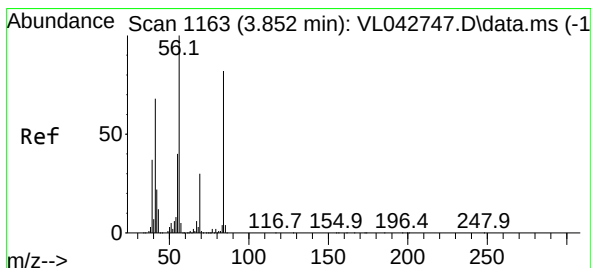
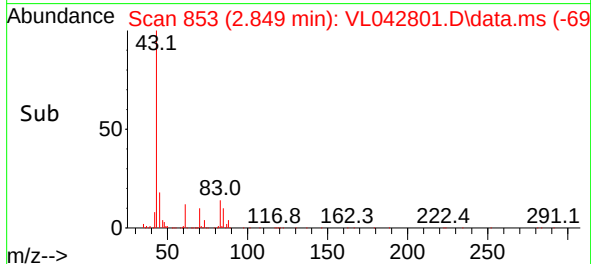
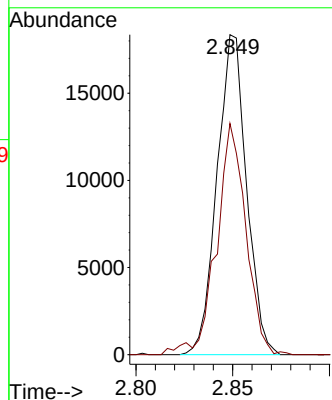
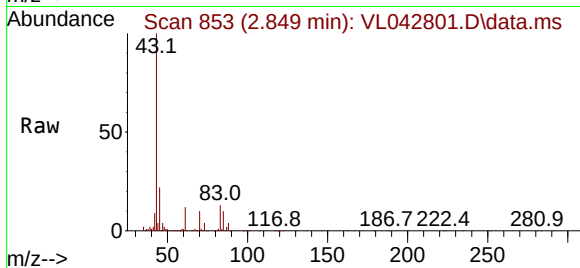
WONDER IA-3

Tgt Ion: 83 Resp: 19459

Ion Ratio Lower Upper

83 100

85 71.4 52.2 78.2



#30

Cyclohexane

Concen: 0.049 ppbv

RT: 3.862 min Scan# 1166

Delta R.T. 0.010 min

Lab File: VL042801.D

Acq: 04 Aug 2025 12:56

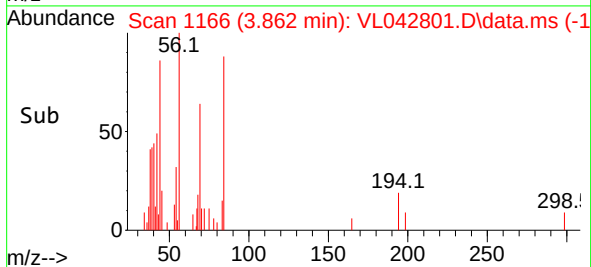
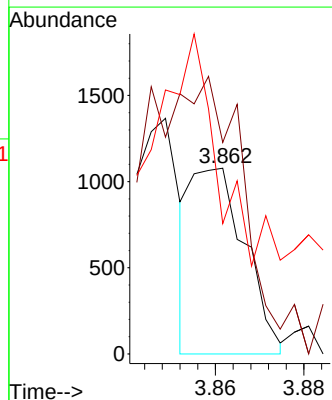
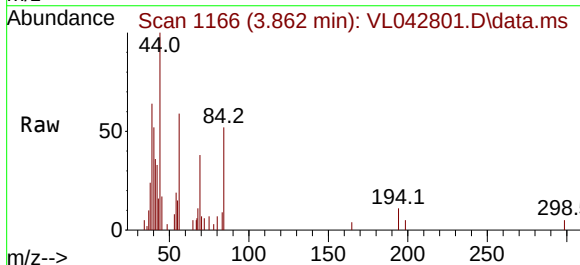
Tgt Ion: 84 Resp: 919

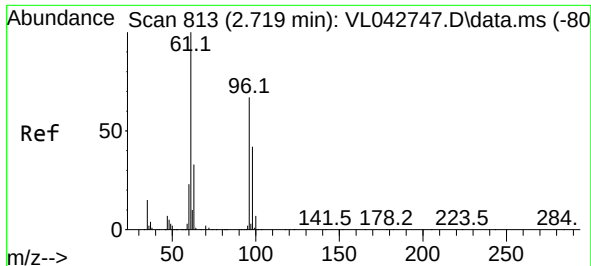
Ion Ratio Lower Upper

84 100

56 342.0 97.5 146.3#

41 474.8 67.2 100.8#

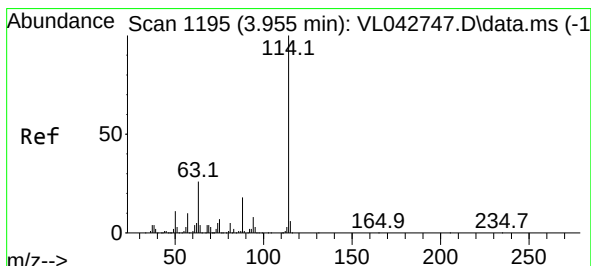
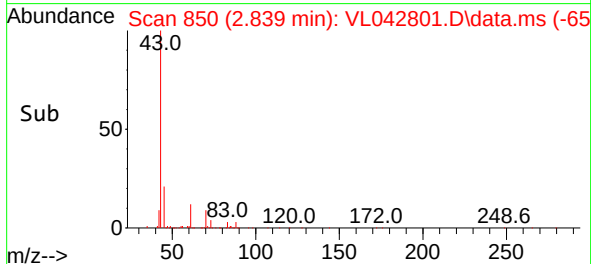
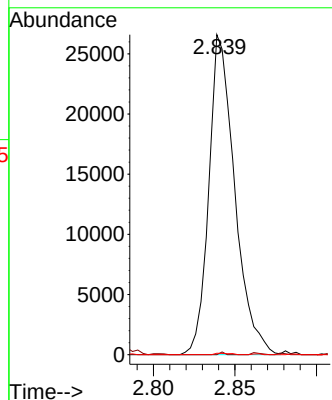
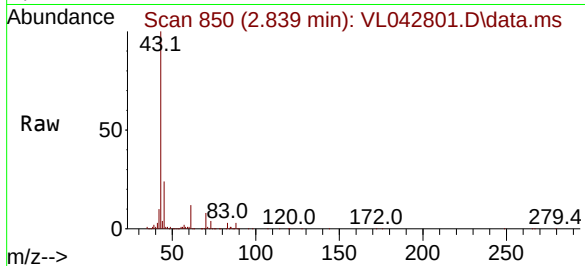




#31
 cis-1,2-Dichloroethene
 Concen: 1.279 ppbv
 RT: 2.839 min Scan# 813
 Delta R.T. 0.120 min
 Lab File: VL042801.D
 Acq: 04 Aug 2025 12:56

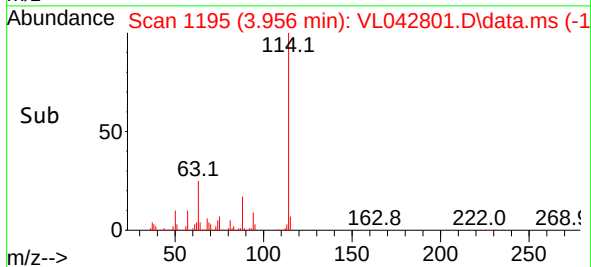
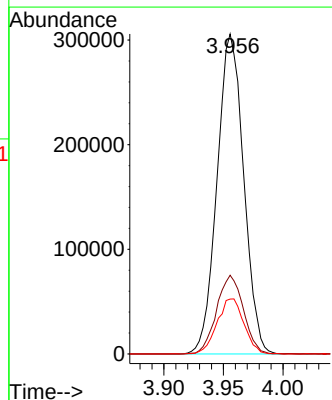
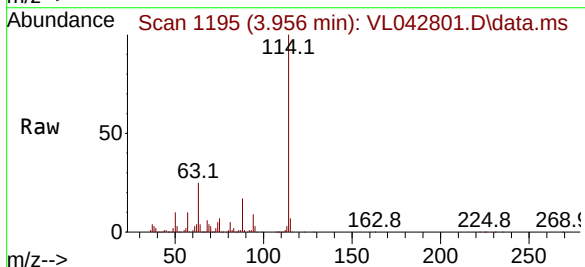
Instrument :
 MSVOA_L
 ClientSampleId :
 WONDER IA-3

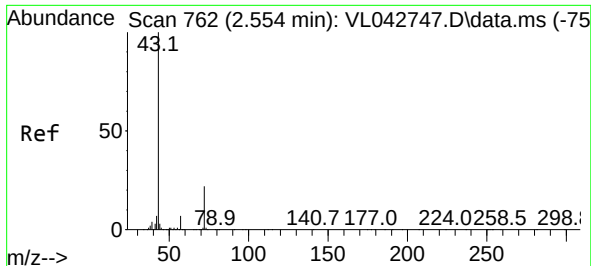
Tgt Ion: 61 Resp: 29364
 Ion Ratio Lower Upper
 61 100
 96 0.0 53.5 80.3#
 98 0.5 33.6 50.4#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.956 min Scan# 1195
 Delta R.T. 0.000 min
 Lab File: VL042801.D
 Acq: 04 Aug 2025 12:56

Tgt Ion: 114 Resp: 474561
 Ion Ratio Lower Upper
 114 100
 63 24.8 20.5 30.7
 88 17.4 14.0 21.0

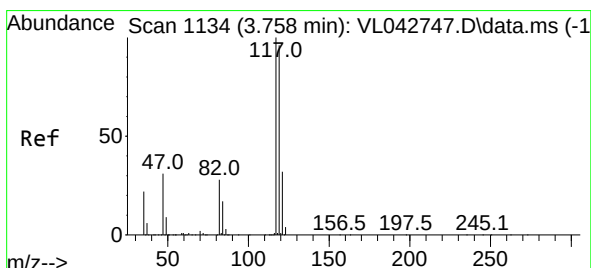
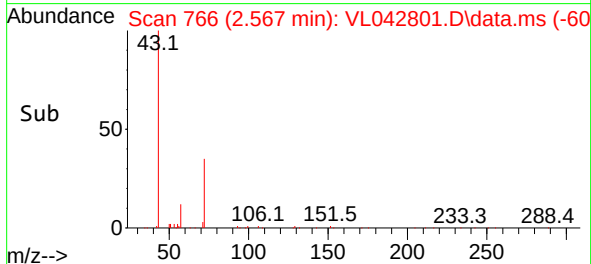
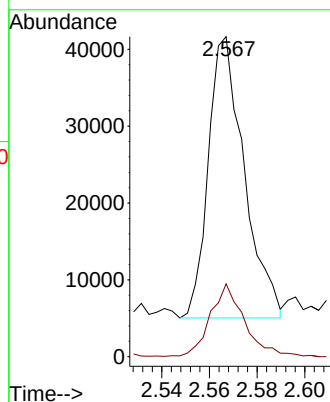
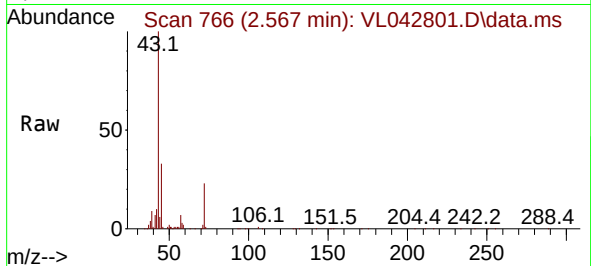




#34
2-Butanone
Concen: 1.136 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.013 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

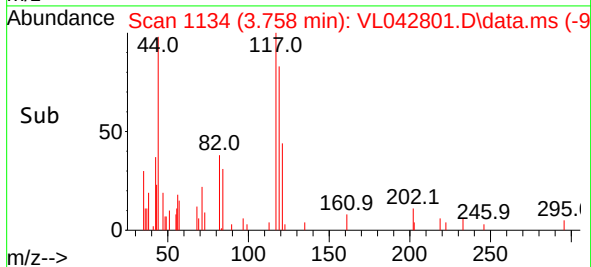
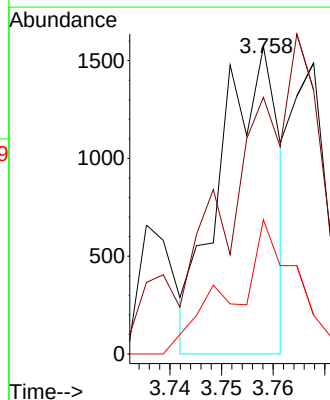
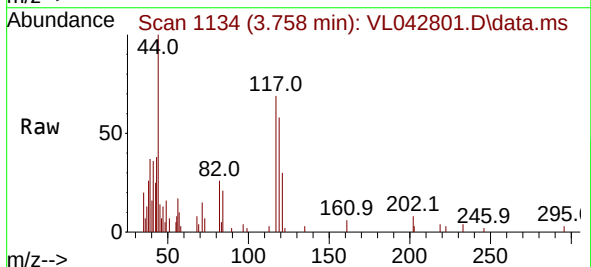
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

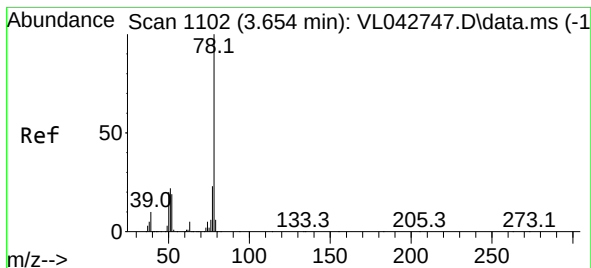
Tgt Ion: 43 Resp: 38173
Ion Ratio Lower Upper
43 100
72 24.8 17.4 26.0



#35
Carbon Tetrachloride
Concen: 0.035 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. 0.000 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 117 Resp: 1236
Ion Ratio Lower Upper
117 100
119 83.5 77.1 115.7
121 45.7 25.5 38.3#





#36

Benzene

Concen: 0.284 ppbv

RT: 3.655 min Scan# 1102

Delta R.T. 0.000 min

Lab File: VL042801.D

Acq: 04 Aug 2025 12:56

Instrument :

MSVOA_1

ClientSampleId :

WONDER IA-3

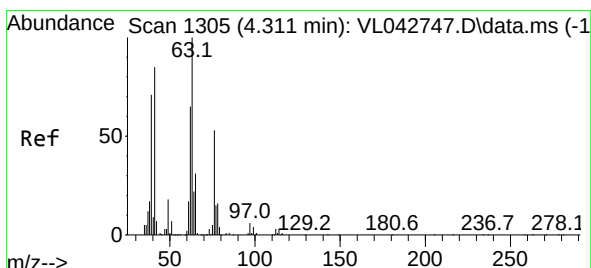
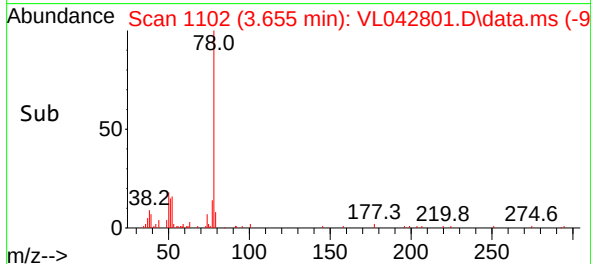
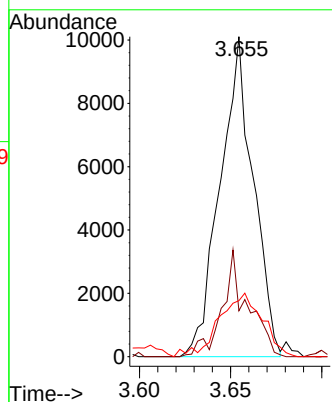
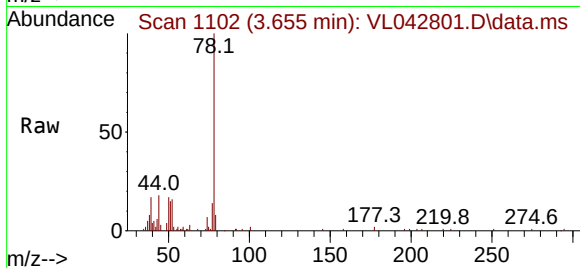
Tgt Ion: 78 Resp: 12792

Ion Ratio Lower Upper

78 100

77 14.4 18.5 27.7#

50 15.2 16.2 24.2#



#39

1,2-Dichloropropane

Concen: 7.080 ppbv

RT: 3.956 min Scan# 1195

Delta R.T. -0.356 min

Lab File: VL042801.D

Acq: 04 Aug 2025 12:56

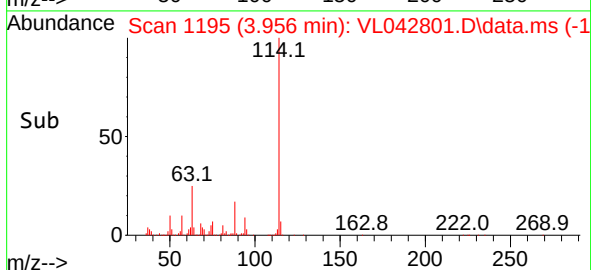
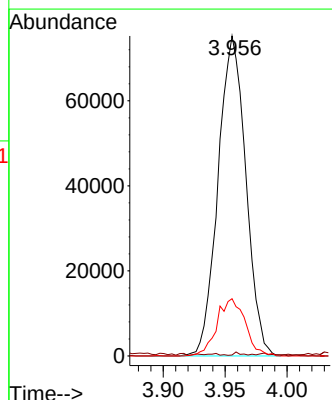
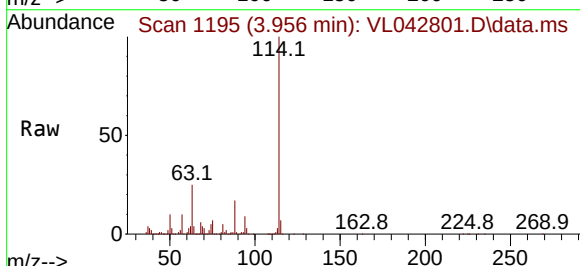
Tgt Ion: 63 Resp: 117534

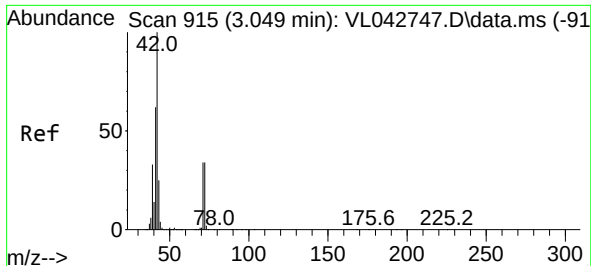
Ion Ratio Lower Upper

63 100

41 0.0 68.2 102.4#

62 17.9 52.0 78.0#

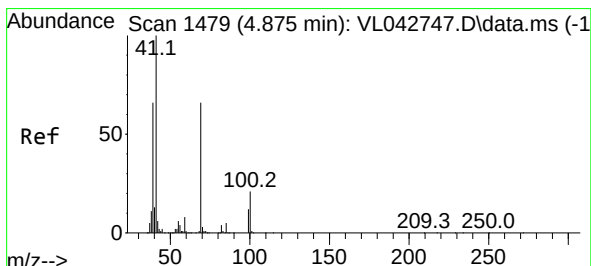
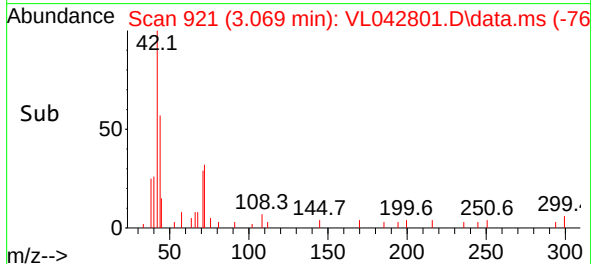
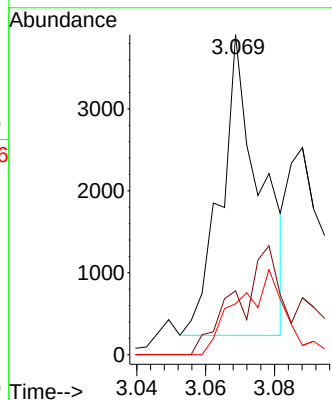
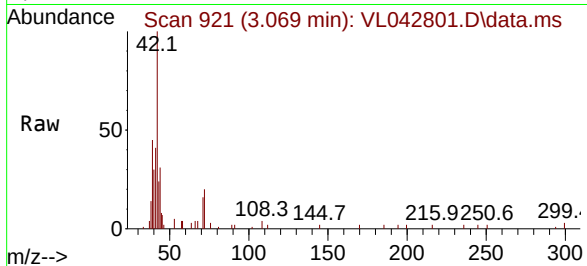




#41
Tetrahydrofuran
Concen: 0.170 ppbv
RT: 3.069 min Scan# 915
Delta R.T. 0.020 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

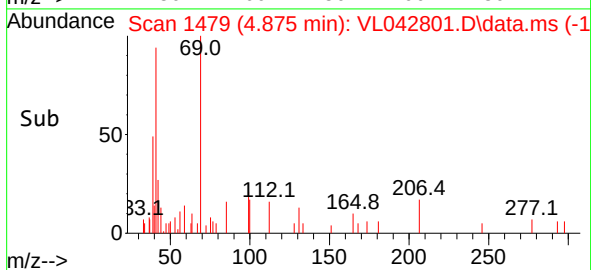
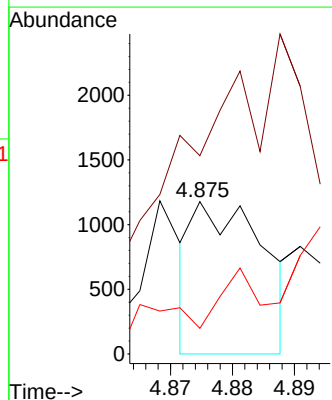
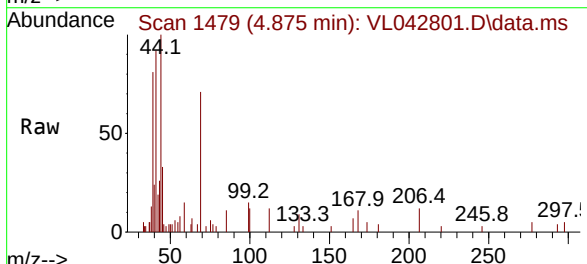
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

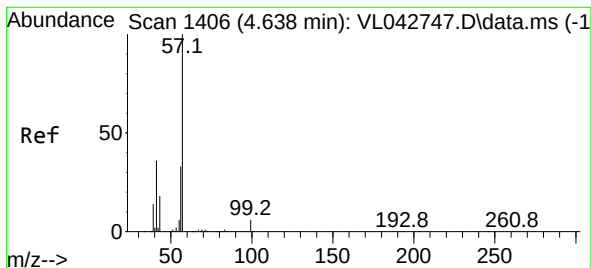
Tgt Ion: 42 Resp: 2916
Ion Ratio Lower Upper
42 100
72 66.4 30.9 46.3#
71 34.8 28.6 43.0



#43
Methyl Methacrylate
Concen: 0.058 ppbv
RT: 4.875 min Scan# 1479
Delta R.T. 0.000 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 69 Resp: 933
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: 0.077 ppbv

RT: 4.635 min Scan# 1406

Delta R.T. -0.003 min

Lab File: VL042801.D

Acq: 04 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

WONDER IA-3

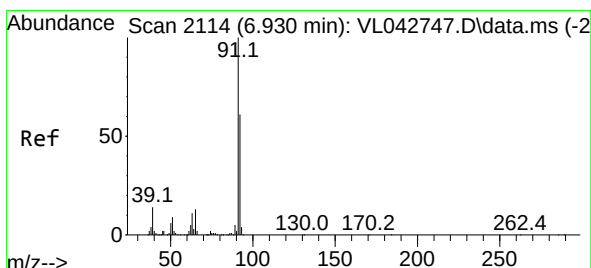
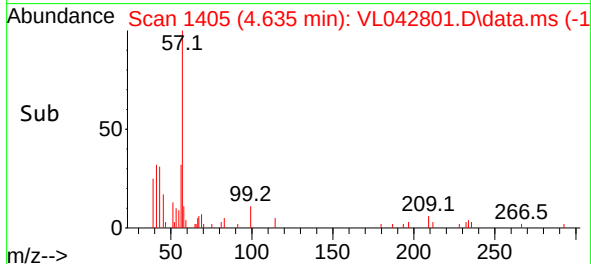
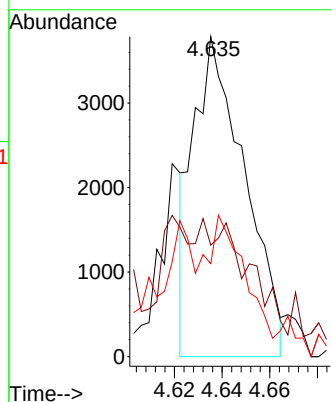
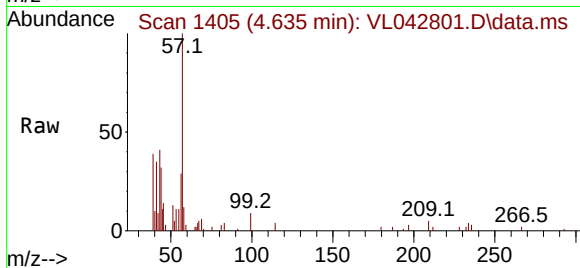
Tgt Ion: 57 Resp: 5675

Ion Ratio Lower Upper

57 100

41 0.0 28.3 42.5#

56 78.8 25.8 38.6#



#53

Toluene

Concen: 0.375 ppbv

RT: 6.933 min Scan# 2115

Delta R.T. 0.003 min

Lab File: VL042801.D

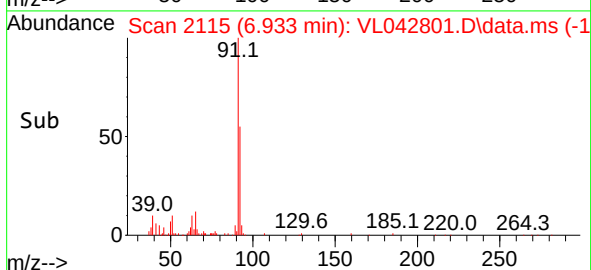
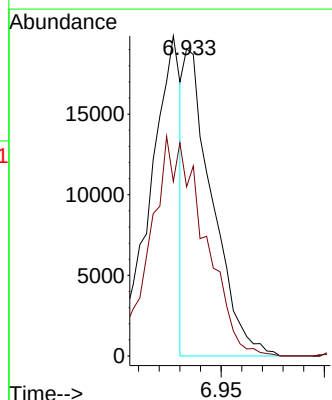
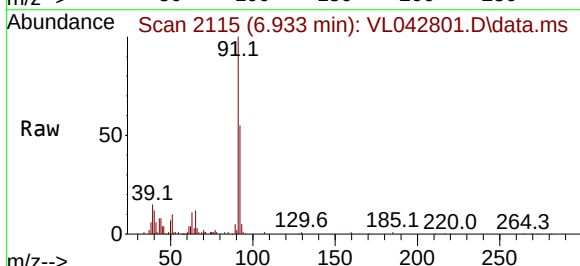
Acq: 04 Aug 2025 12:56

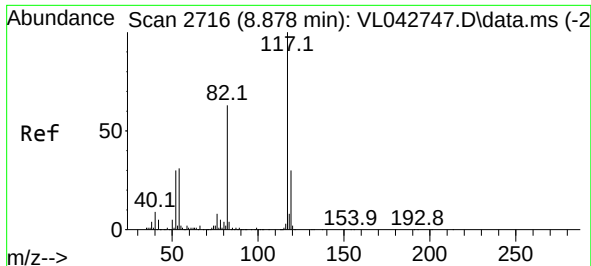
Tgt Ion: 91 Resp: 18109

Ion Ratio Lower Upper

91 100

92 0.0 48.0 72.0#

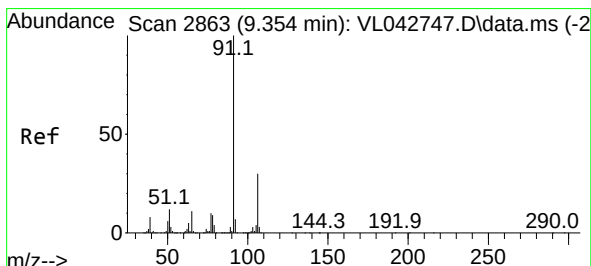
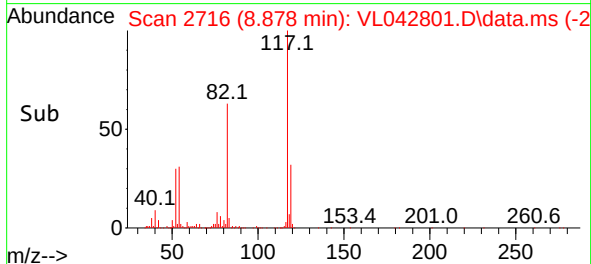
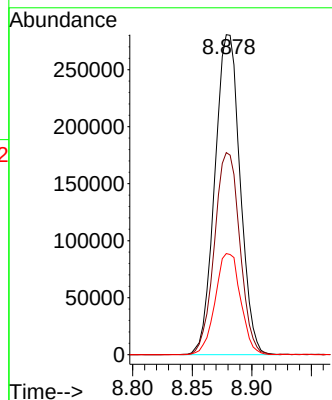
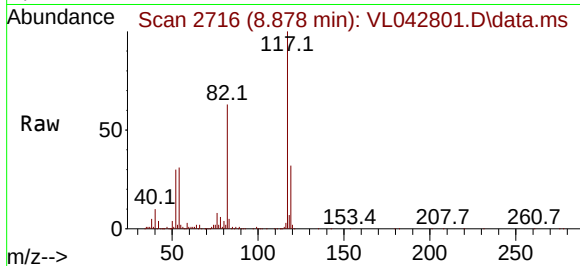




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

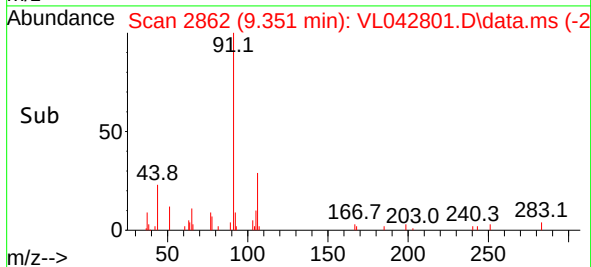
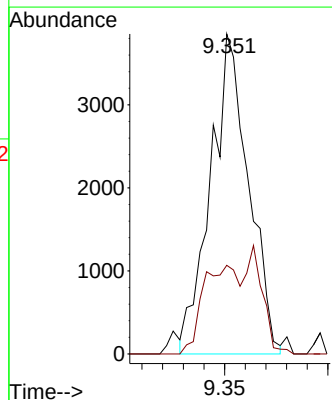
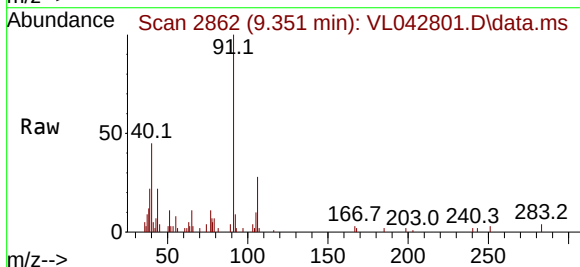
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

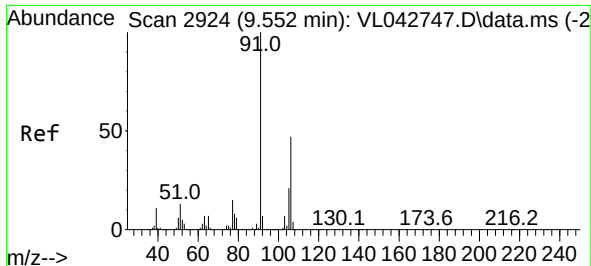
Tgt Ion:117 Resp: 413546
Ion Ratio Lower Upper
117 100
82 63.7 53.3 79.9
119 31.8 25.8 38.6



#58
Ethyl Benzene
Concen: 0.076 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 91 Resp: 4937
Ion Ratio Lower Upper
91 100
106 28.4 23.8 35.6





#59

m/p-Xylene

Concen: 0.056 ppbv

RT: 9.548 min Scan# 2921

Delta R.T. -0.003 min

Lab File: VL042801.D

Acq: 04 Aug 2025 12:56

Instrument :

MSVOA_1

ClientSampleId :

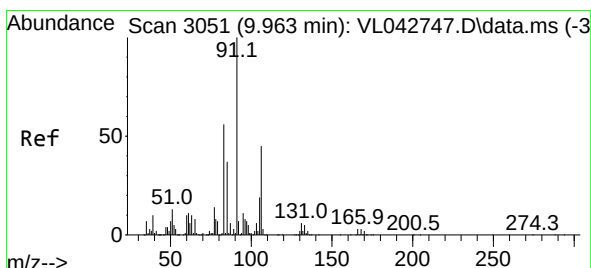
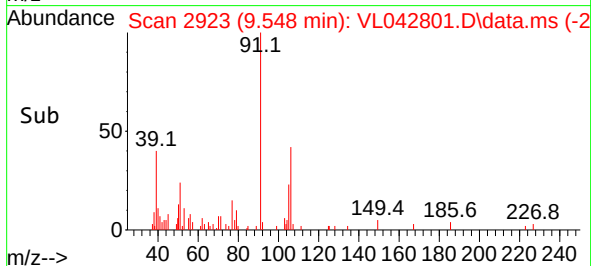
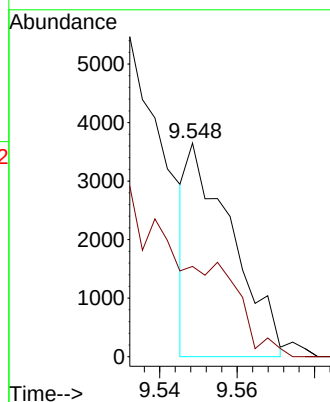
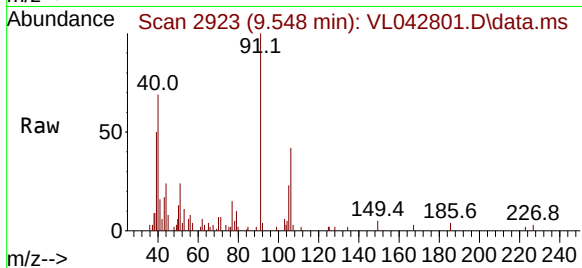
WONDER IA-3

Tgt Ion: 91 Resp: 2921

Ion Ratio Lower Upper

91 100

106 0.0 37.4 56.2#



#60

o-Xylene

Concen: 0.035 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.003 min

Lab File: VL042801.D

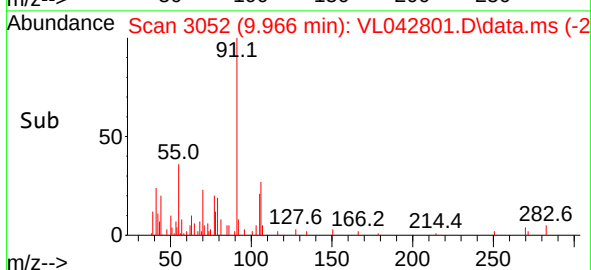
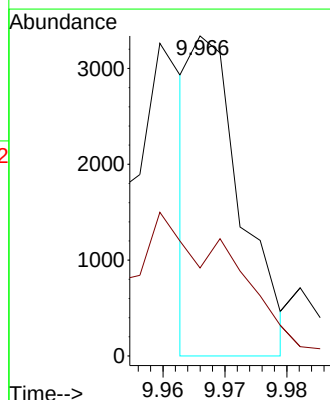
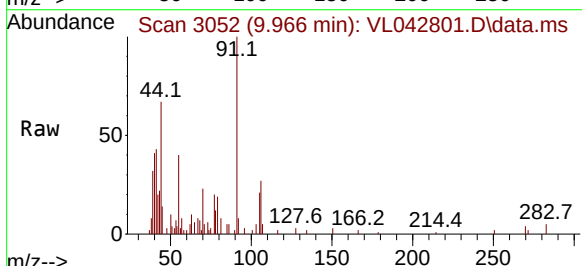
Acq: 04 Aug 2025 12:56

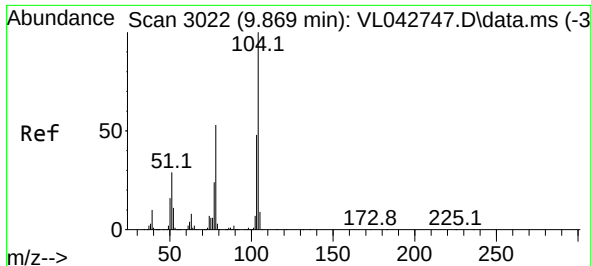
Tgt Ion: 91 Resp: 1849

Ion Ratio Lower Upper

91 100

106 0.0 22.0 66.0#





#61

Styrene

Concen: 0.226 ppbv

RT: 9.869 min Scan# 3022

Delta R.T. 0.000 min

Lab File: VL042801.D

Acq: 04 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

WONDER IA-3

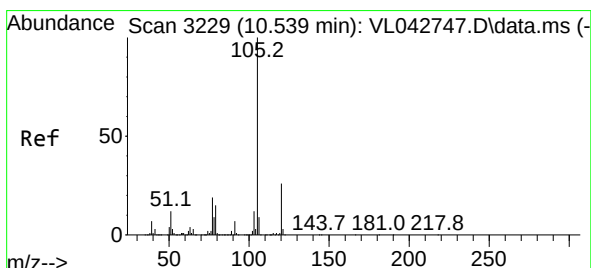
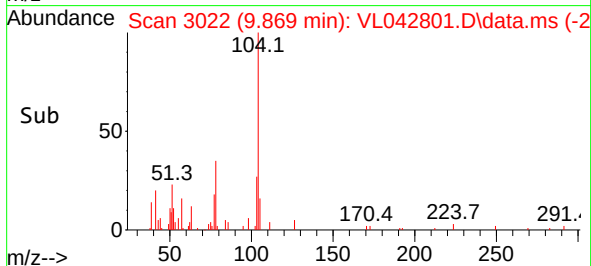
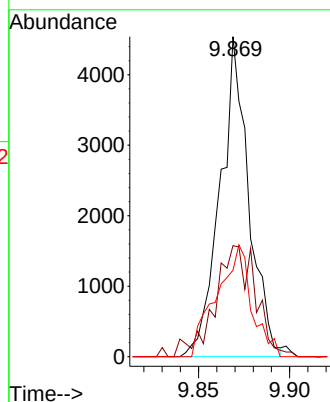
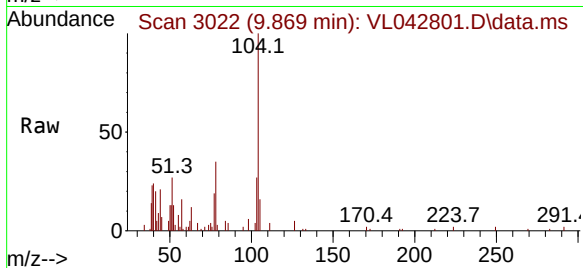
Tgt Ion:104 Resp: 4962

Ion Ratio Lower Upper

104 100

78 49.7 41.5 62.3

103 42.8 37.5 56.3



#62

Isopropylbenzene

Concen: 0.020 ppbv

RT: 10.536 min Scan# 3228

Delta R.T. -0.003 min

Lab File: VL042801.D

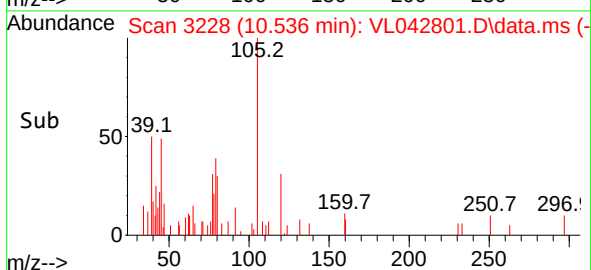
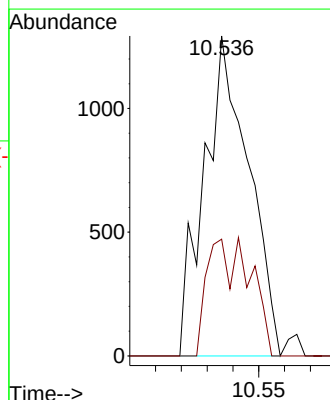
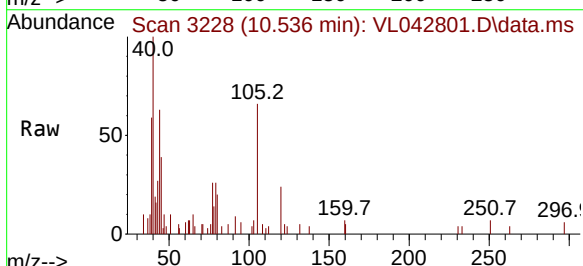
Acq: 04 Aug 2025 12:56

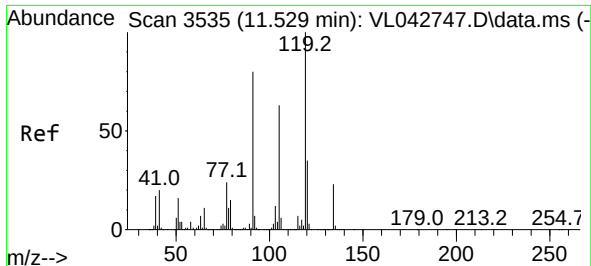
Tgt Ion:105 Resp: 1553

Ion Ratio Lower Upper

105 100

120 35.4 20.5 30.7#

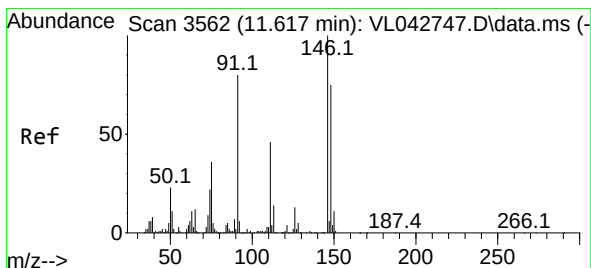
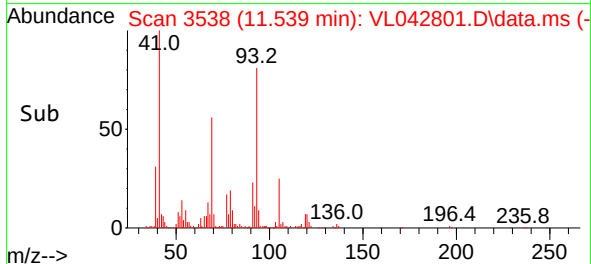
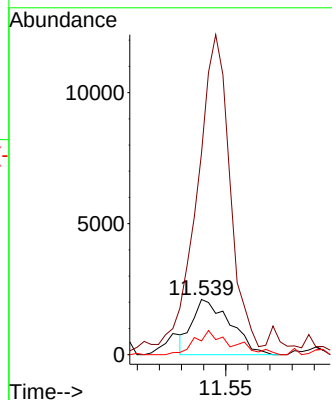
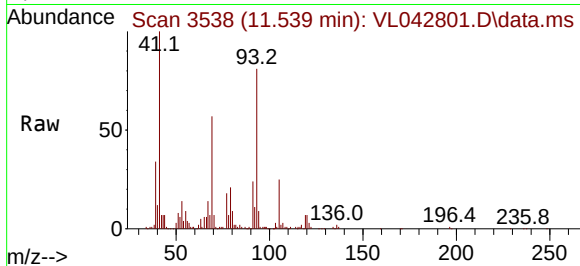




#65
tert-Butylbenzene
Concen: 0.037 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.010 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

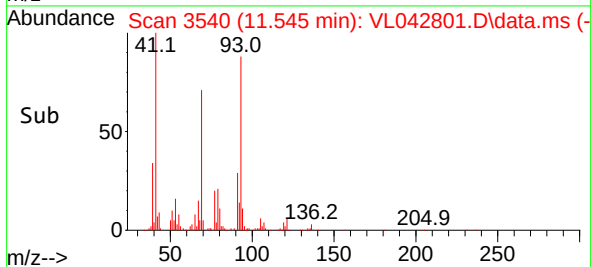
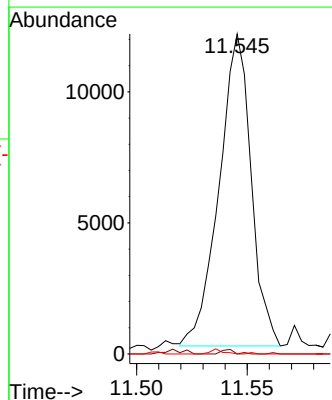
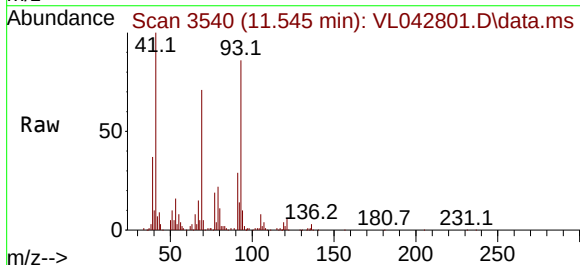
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

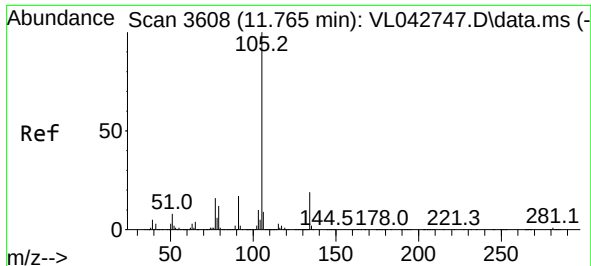
Tgt Ion:119 Resp: 2516
Ion Ratio Lower Upper
119 100
91 525.2 64.0 96.0#
134 42.1 17.3 25.9#



#66
Benzyl Chloride
Concen: 2.136 ppbv
RT: 11.545 min Scan# 3540
Delta R.T. -0.071 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 91 Resp: 11984
Ion Ratio Lower Upper
91 100
126 0.8 14.4 21.6#
128 0.9 5.2 7.8#

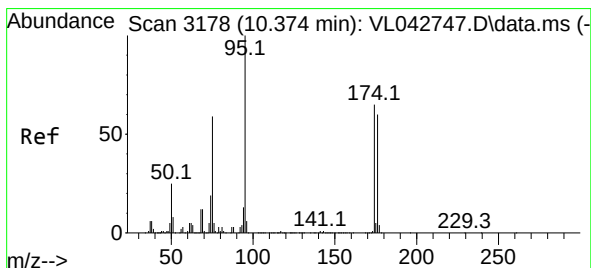
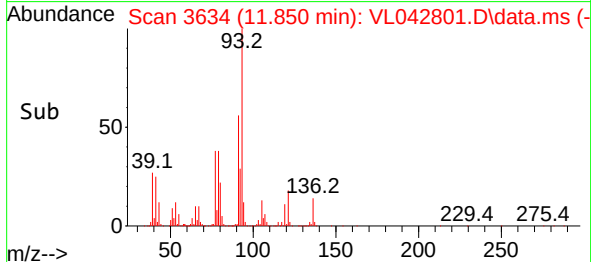
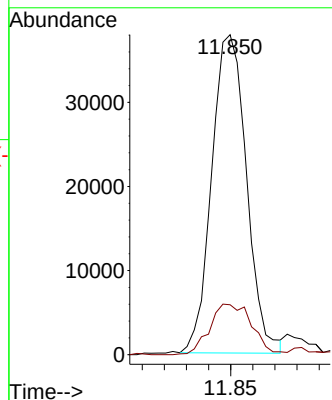
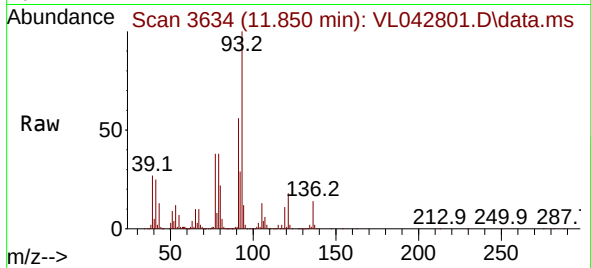




#67
 sec-Butylbenzene
 Concen: 0.426 ppbv
 RT: 11.850 min Scan# 3634
 Delta R.T. 0.084 min
 Lab File: VL042801.D
 Acq: 04 Aug 2025 12:56

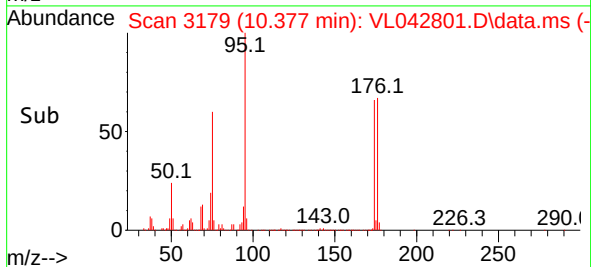
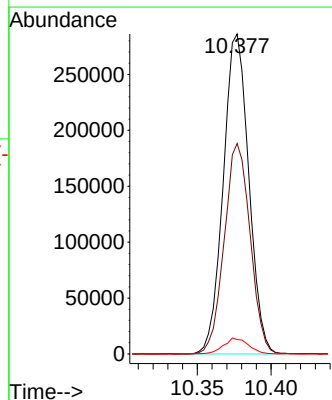
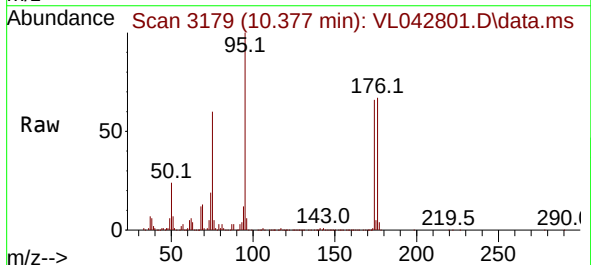
Instrument :
 MSVOA_1
 ClientSampleId :
 WONDER IA-3

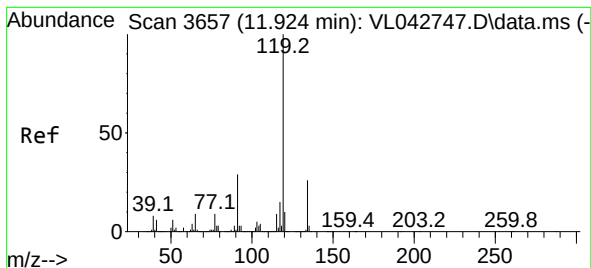
Tgt Ion:105 Resp: 41419
 Ion Ratio Lower Upper
 105 100
 134 20.8 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.515 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. 0.003 min
 Lab File: VL042801.D
 Acq: 04 Aug 2025 12:56

Tgt Ion: 95 Resp: 344382
 Ion Ratio Lower Upper
 95 100
 174 66.7 53.8 80.6
 175 4.9 4.0 6.0





#69

p-Isopropyltoluene

Concen: 0.656 ppbv

RT: 11.927 min Scan# 3658

Delta R.T. 0.003 min

Lab File: VL042801.D

Acq: 04 Aug 2025 12:56

Instrument :

MSVOA_1

ClientSampleId :

WONDER IA-3

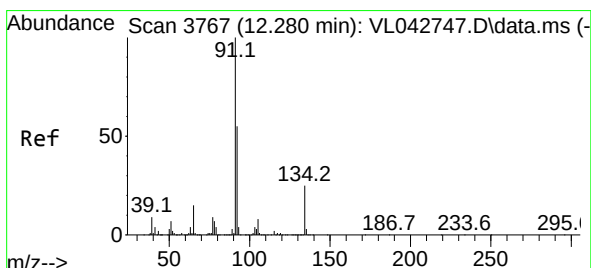
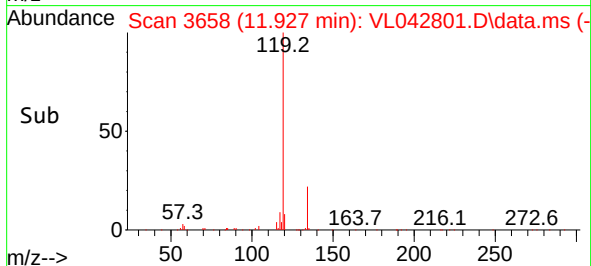
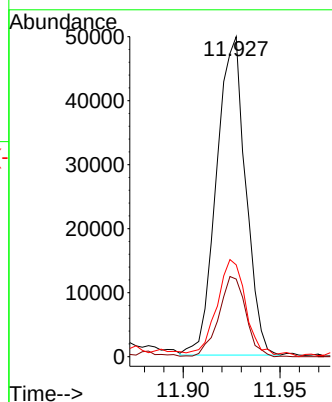
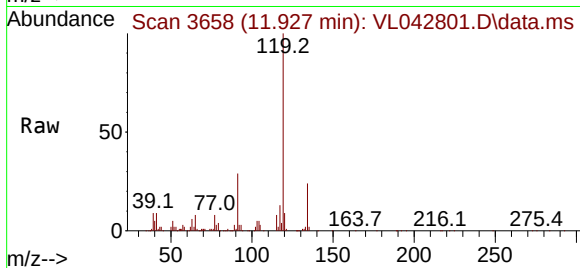
Tgt Ion:119 Resp: 52018

Ion Ratio Lower Upper

119 100

134 23.4 20.6 31.0

91 33.4 23.2 34.8



#70

n-Butylbenzene

Concen: 0.263 ppbv

RT: 12.345 min Scan# 3787

Delta R.T. 0.065 min

Lab File: VL042801.D

Acq: 04 Aug 2025 12:56

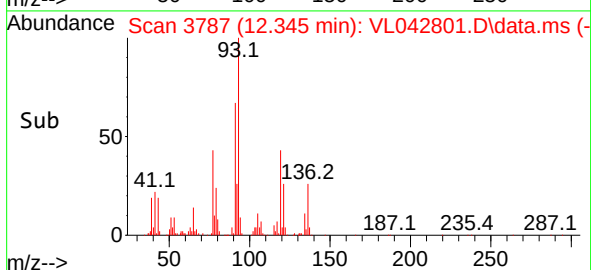
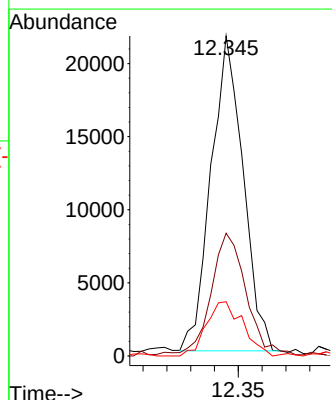
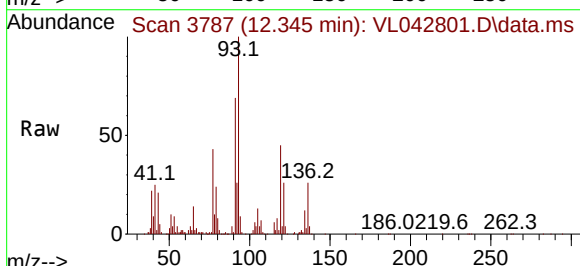
Tgt Ion: 91 Resp: 20159

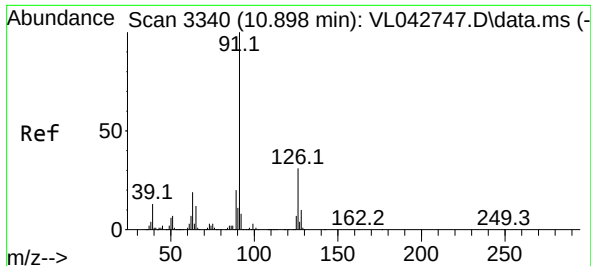
Ion Ratio Lower Upper

91 100

92 44.4 43.4 65.2

134 19.9 19.6 29.4

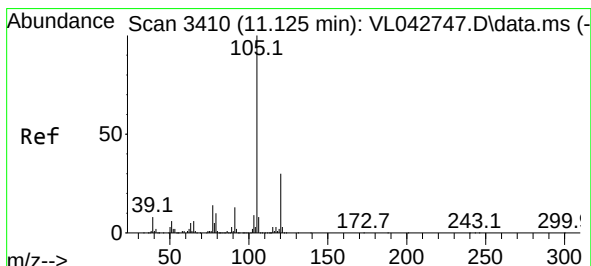
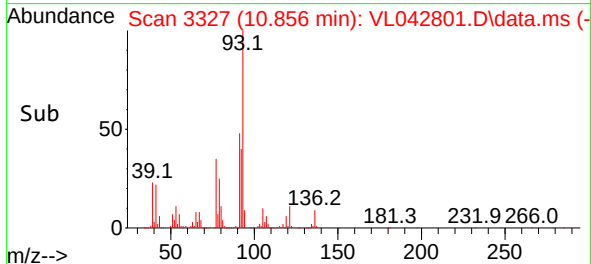
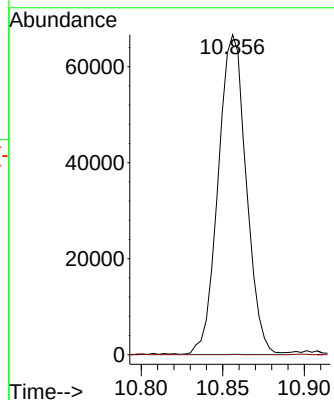
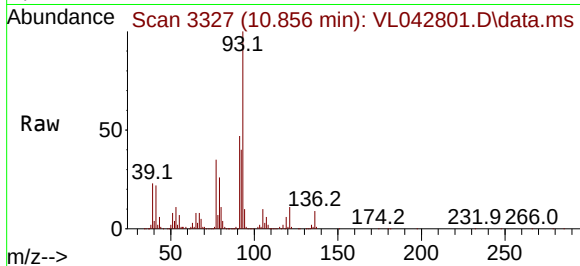




#71
2-Chlorotoluene
Concen: 1.346 ppbv
RT: 10.856 min Scan# 311
Delta R.T. -0.042 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

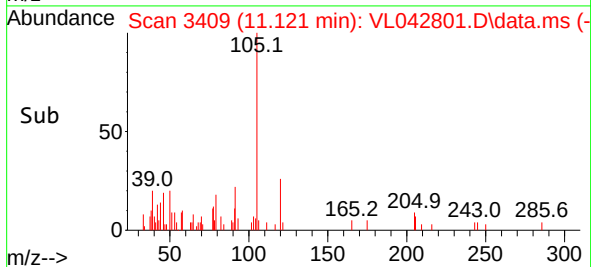
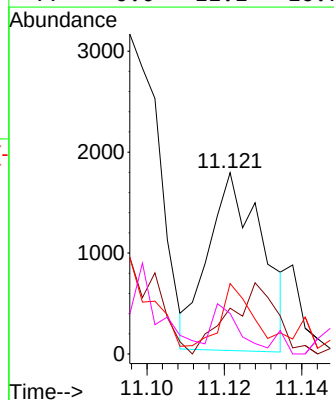
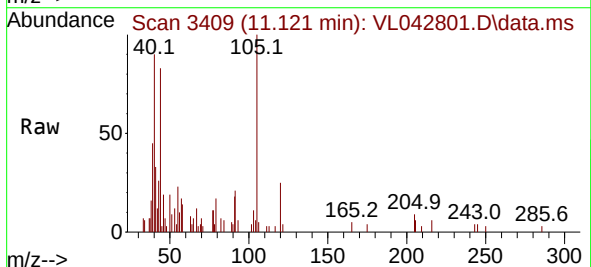
Instrument :
MSVOA_1
ClientSampleId :
WONDER IA-3

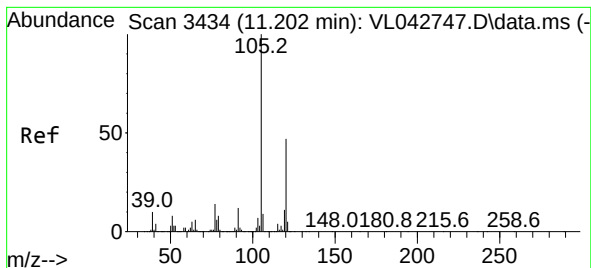
Tgt Ion: 91 Resp: 79400
Ion Ratio Lower Upper
91 100
126 0.1 12.0 48.2#



#72
4-Ethyltoluene
Concen: 0.027 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion: 105 Resp: 1700
Ion Ratio Lower Upper
105 100
120 35.9 24.4 36.6
91 0.0 10.6 15.8#
77 0.0 11.1 16.7#





#73

1,3,5-Trimethylbenzene

Concen: 0.031 ppbv

RT: 11.199 min Scan# 3433

Delta R.T. -0.003 min

Lab File: VL042801.D

Acq: 04 Aug 2025 12:56

Instrument :

MSVOA_L

ClientSampleId :

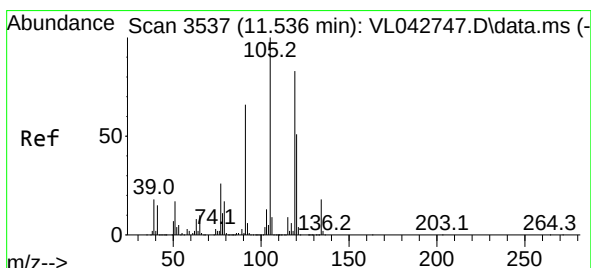
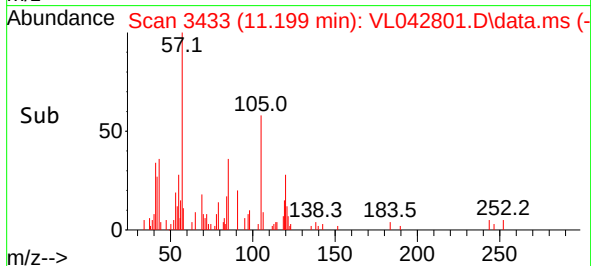
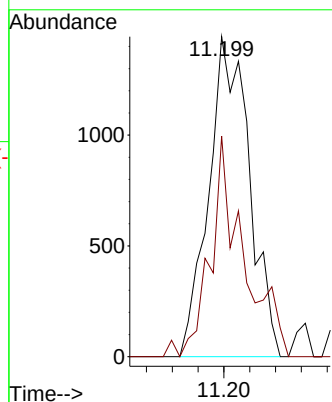
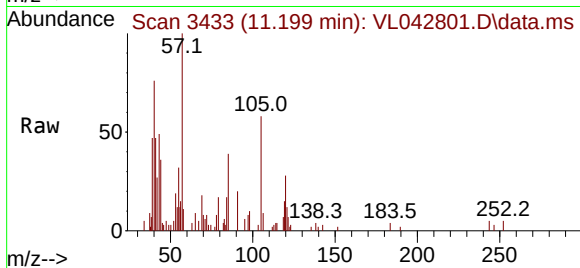
WONDER IA-3

Tgt Ion:105 Resp: 1578

Ion Ratio Lower Upper

105 100

120 69.0 37.8 56.8#



#74

1,2,4-Trimethylbenzene

Concen: 0.143 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.003 min

Lab File: VL042801.D

Acq: 04 Aug 2025 12:56

Tgt Ion:105 Resp: 8019

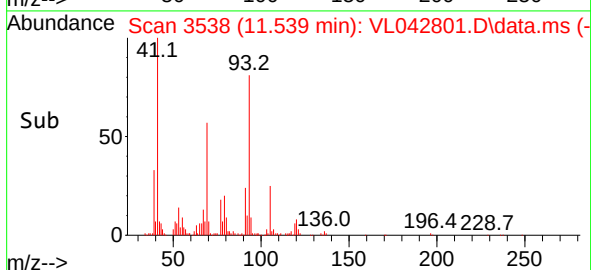
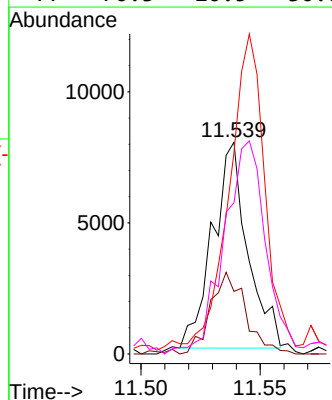
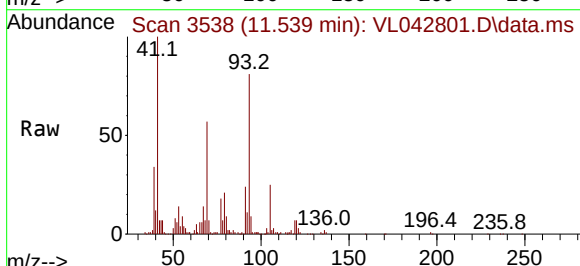
Ion Ratio Lower Upper

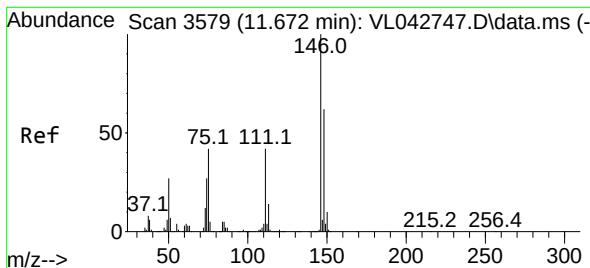
105 100

120 30.4 40.8 61.2#

91 92.8 53.0 79.4#

77 70.3 20.5 30.7#





#76

1,4-Dichlorobenzene

Concen: 0.054 ppbv

RT: 11.668 min Scan# 3578

Delta R.T. -0.003 min

Lab File: VL042801.D

Acq: 04 Aug 2025 12:56

Instrument :

MSVOA_1

ClientSampleId :

WONDER IA-3

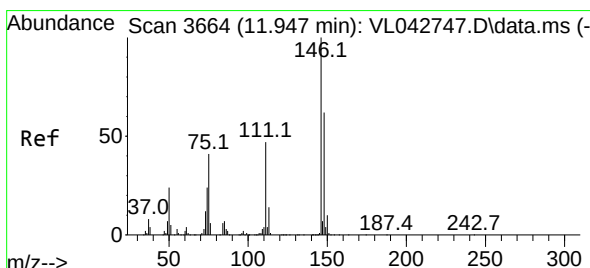
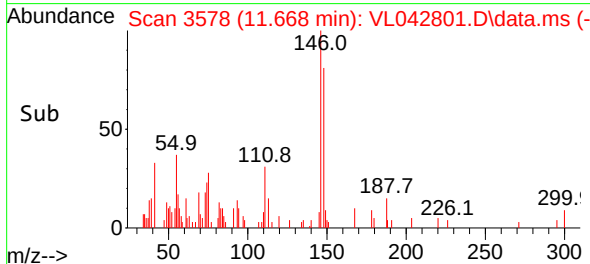
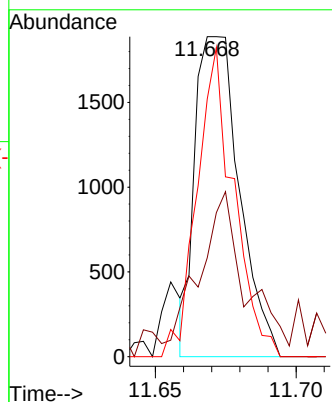
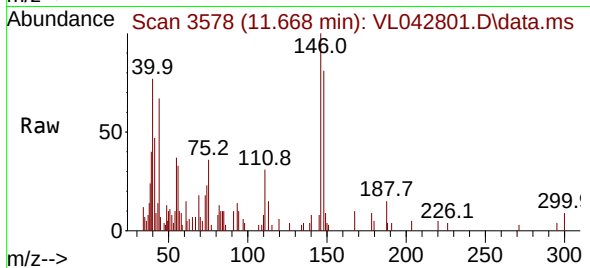
Tgt Ion:146 Resp: 2073

Ion Ratio Lower Upper

146 100

111 67.9 21.4 64.2#

148 79.7 32.1 96.3



#77

1,2-Dichlorobenzene

Concen: 0.054 ppbv

RT: 11.668 min Scan# 3578

Delta R.T. -0.278 min

Lab File: VL042801.D

Acq: 04 Aug 2025 12:56

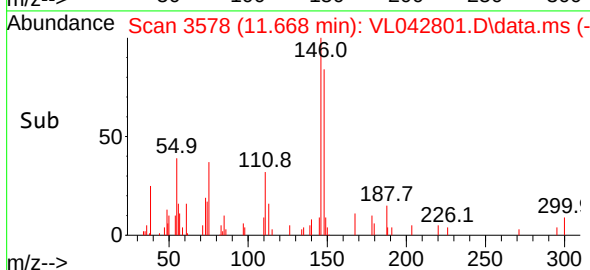
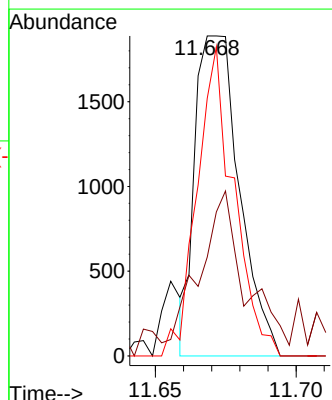
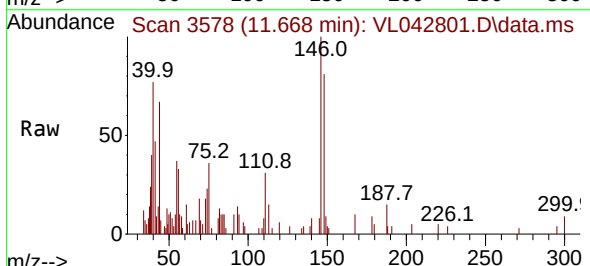
Tgt Ion:146 Resp: 2073

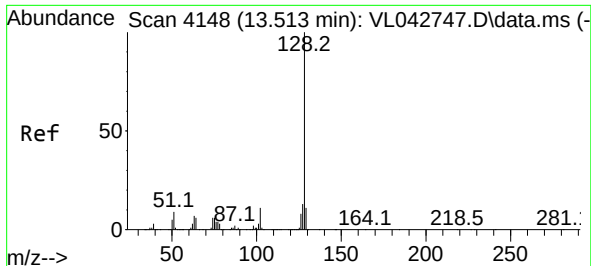
Ion Ratio Lower Upper

146 100

111 67.9 23.7 71.1

148 79.7 32.6 97.7

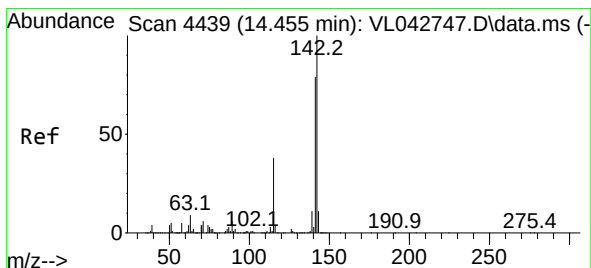
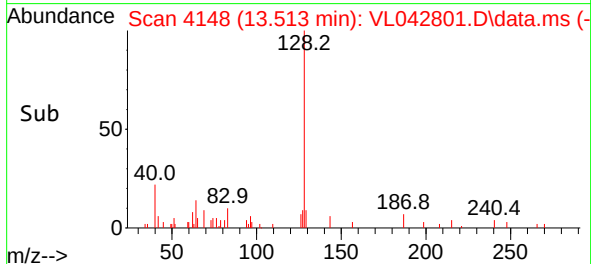
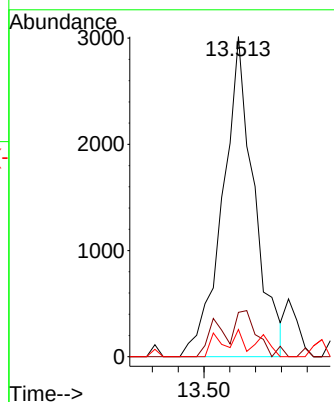
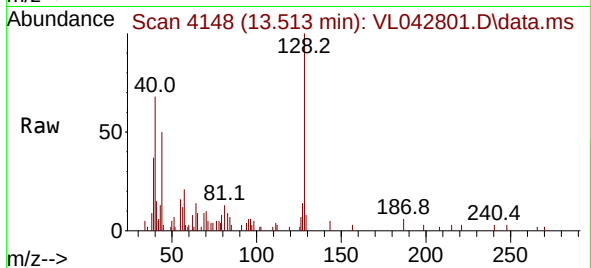




#79
Naphthalene
Concen: 0.475 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. 0.000 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

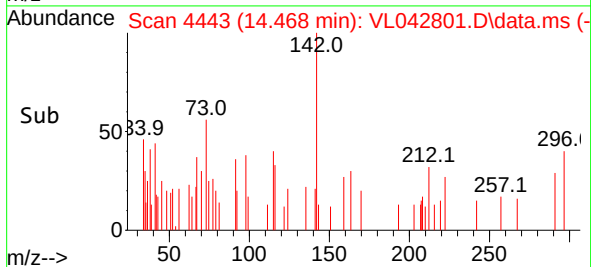
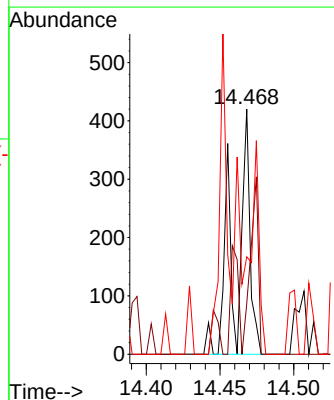
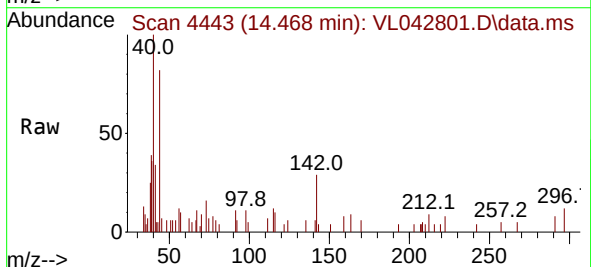
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-3

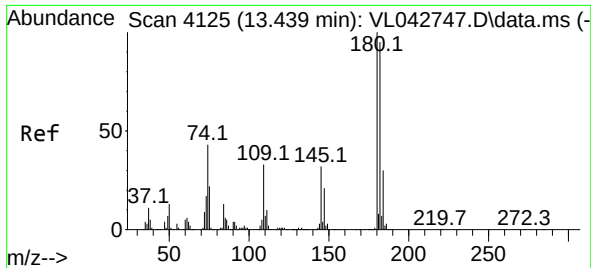
Tgt Ion:128 Resp: 2540
Ion Ratio Lower Upper
128 100
127 13.9 10.5 15.7
129 8.5 8.6 13.0#



#80
Naphthalene,2-methyl-
Concen: 1.136 ppbv
RT: 14.468 min Scan# 4443
Delta R.T. 0.013 min
Lab File: VL042801.D
Acq: 04 Aug 2025 12:56

Tgt Ion:142 Resp: 271
Ion Ratio Lower Upper
142 100
141 76.0 65.8 98.8
115 160.1 31.2 46.8#





#81
 1,2,4-Trichlorobenzene
 Concen: 0.442 ppbv
 RT: 13.439 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042801.D
 Acq: 04 Aug 2025 12:56

Instrument :
 MSVOA_L
 ClientSampleId :
 WONDER IA-3

Tgt Ion	Ratio	Lower	Upper
180	100		
182	102.4	76.2	114.2
184	54.3	24.8	37.2#

