

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
 Data File : VL042800.D
 Acq On : 04 Aug 2025 12:23
 Operator : SY/MD
 Sample : Q2750-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 WONDER IA-2DUP

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 08/06/2025
 Supervised By : Mahesh Dadoda 08/06/2025

Quant Time: Aug 05 01:02:49 2025

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 5

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	171645	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	484996	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	419893	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 351197 10.561 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 105.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	12466	0.549	ppbv	99
3) Chlorodifluoromethane	1.473	51	1678405	56.774	ppbv #	79
4) Chloromethane	1.531	50	70791	7.710	ppbv	99
9) Propene	1.486	41	172174m	16.024	ppbv	
10) Heptane	4.985	43	7448m	0.257	ppbv	
11) Trichlorofluoromethane	1.874	101	4766	0.204	ppbv	89
13) Ethanol	1.726	45	4743135	6061.609	ppbv	93
15) Acetone	1.832	43	2271716	95.847	ppbv #	77
19) Isopropyl Alcohol	1.991	45	26711107m	2120.728	ppbv	
20) Methylene Chloride	2.062	84	16776	2.246	ppbv	87
23) Vinyl Acetate	2.460	43	57901	2.015	ppbv #	93
25) Ethyl Acetate	2.842	43	274990m	5.242	ppbv	
26) Hexane	2.823	57	42707	1.856	ppbv #	1
27) Carbon Disulfide	2.146	76	67073	3.404	ppbv #	65
29) Chloroform	2.849	83	28648	0.806	ppbv	88
34) 2-Butanone	2.564	43	55250	1.608	ppbv	93
35) Carbon Tetrachloride	3.765	117	3994m	0.111	ppbv	
36) Benzene	3.651	78	12369	0.269	ppbv	98
41) Tetrahydrofuran	3.065	42	9821m	0.562	ppbv	
44) 2,2,4-Trimethylpentane	4.642	57	8220m	0.110	ppbv	
52) Tetrachloroethene	8.215	164	592m	0.031	ppbv	
53) Toluene	6.927	91	40915	0.829	ppbv	95
59) m/p-Xylene	9.529	91	13111m	0.247	ppbv	
61) Styrene	9.869	104	4865	0.218	ppbv	93
69) p-Isopropyltoluene	11.924	119	54508	0.677	ppbv	95
79) Naphthalene	13.513	128	2980	0.481	ppbv #	93
81) 1,2,4-Trichlorobenzene	13.442	180	654m	0.453	ppbv	

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

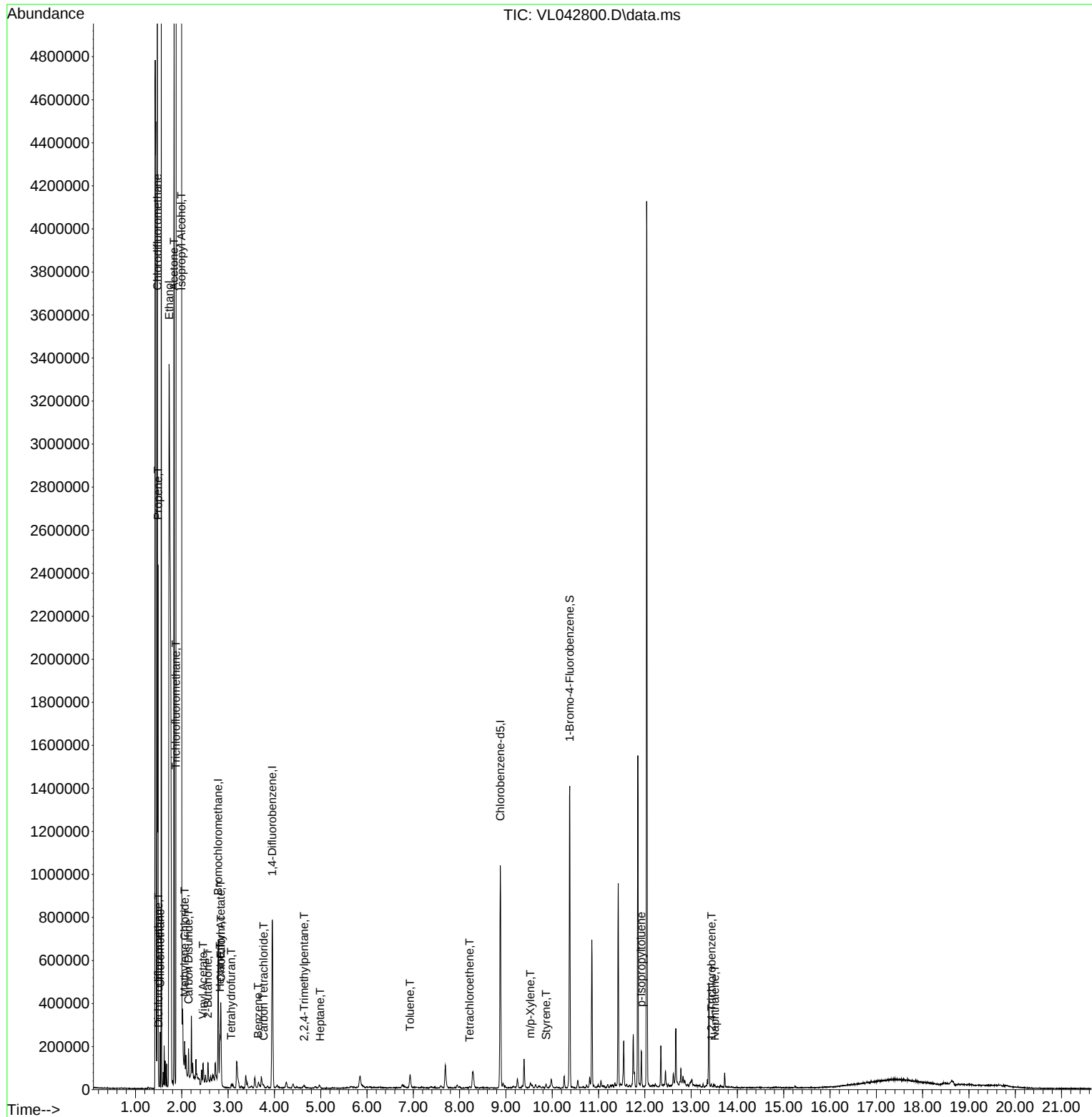
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042800.D
Acq On : 04 Aug 2025 12:23
Operator : SY/MD
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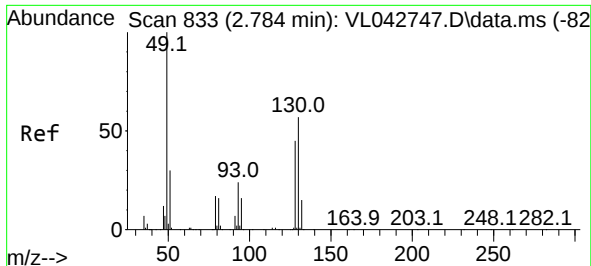
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Quant Time: Aug 05 01:02:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

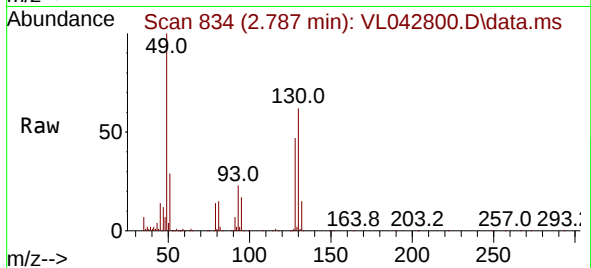
Reviewed By : Semsettin Yesilyurt 08/06/2025
Supervised By : Mahesh Dadoda 08/06/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

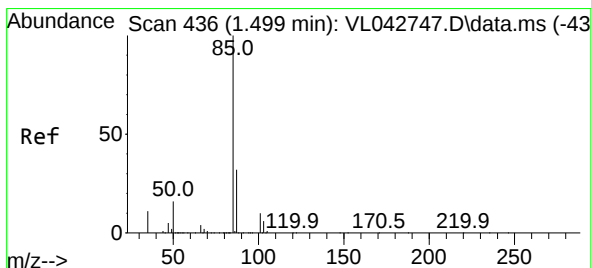
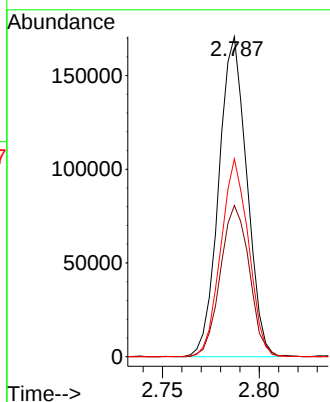
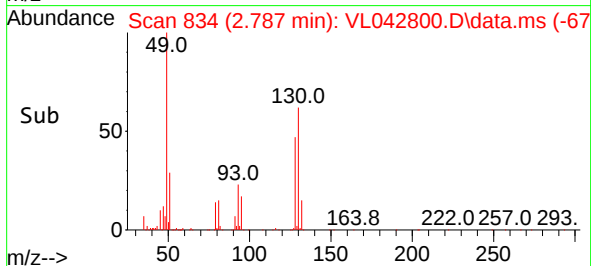
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP



Tgt Ion: 49 Resp: 17164
Ion Ratio Lower Upper
49 100
128 48.8 23.6 71.0
130 61.1 30.3 90.8

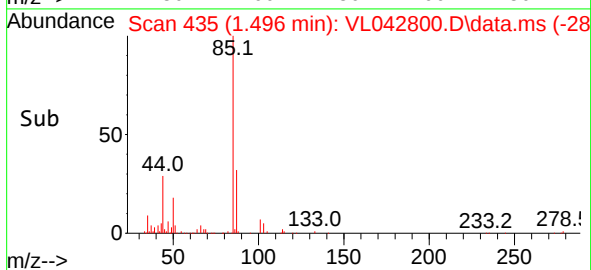
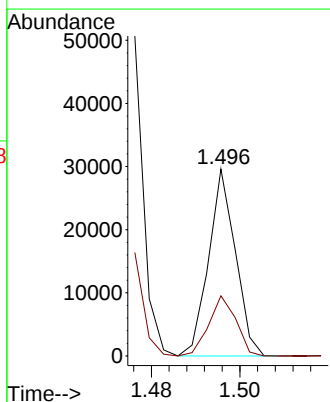
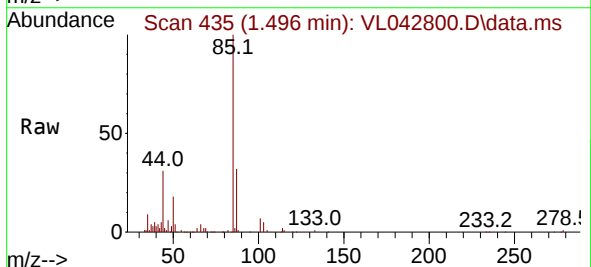
Manual Integrations
APPROVED

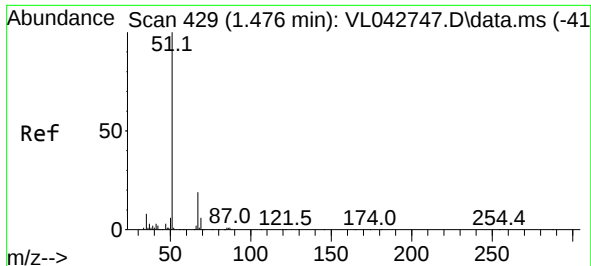
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#2
Dichlorodifluoromethane
Concen: 0.549 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

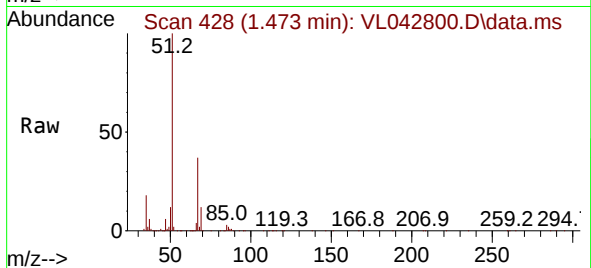
Tgt Ion: 85 Resp: 12466
Ion Ratio Lower Upper
85 100
87 32.2 25.4 38.2





#3
Chlorodifluoromethane
Concen: 56.774 ppbv
RT: 1.473 min Scan# 429
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

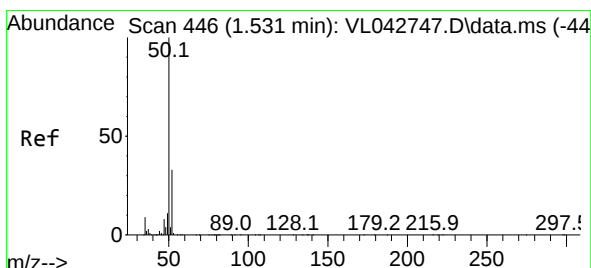
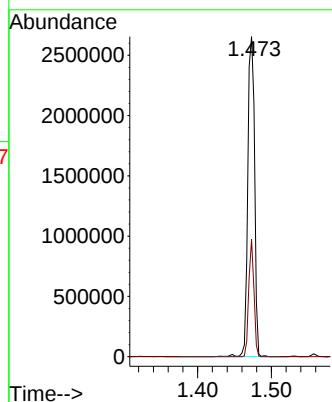
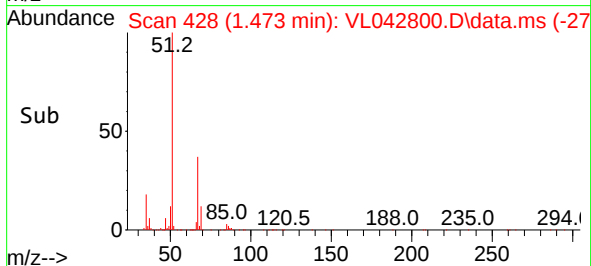
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP



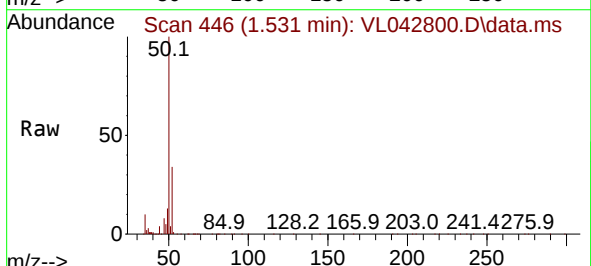
Tgt Ion: 51 Resp: 1678409
Ion Ratio Lower Upper
51 100
67 28.1 15.0 22.6

Manual Integrations
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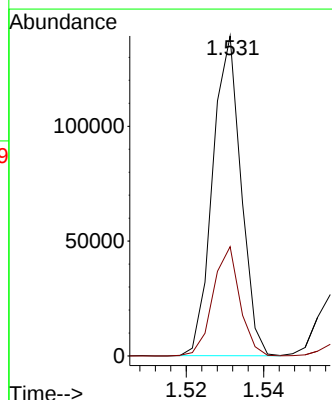
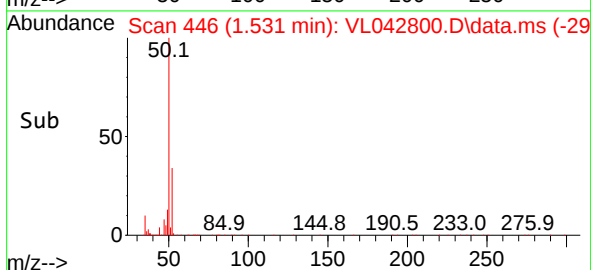
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

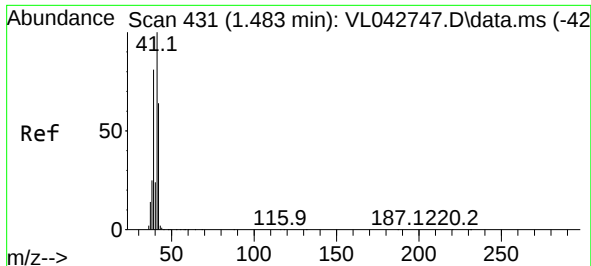


#4
Chloromethane
Concen: 7.710 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23



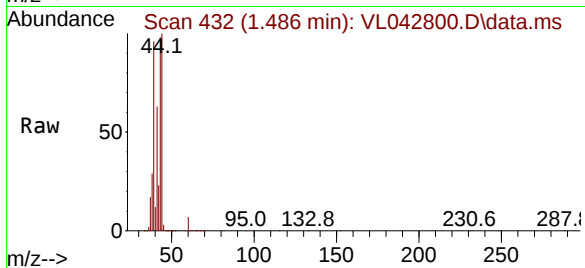
Tgt Ion: 50 Resp: 70791
Ion Ratio Lower Upper
50 100
52 34.1 26.6 40.0





#9
 Propene
 Concen: 16.024 ppbv m
 RT: 1.486 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042800.D
 Acq: 04 Aug 2025 12:23

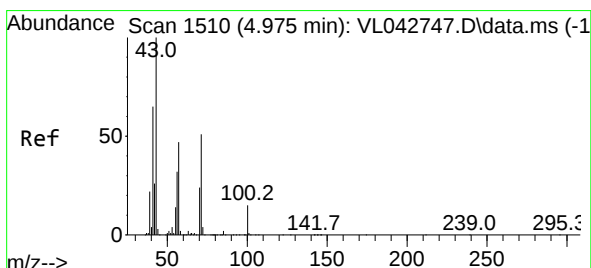
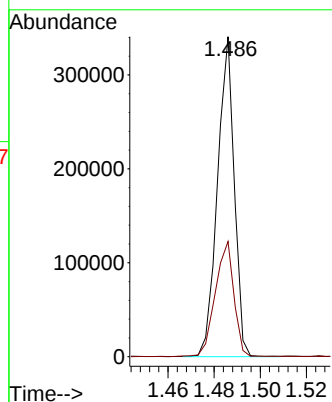
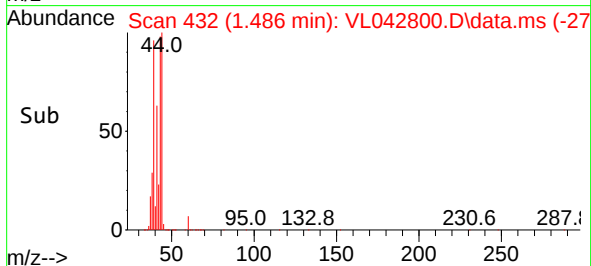
Instrument :
 MSVOA_L
 ClientSampleId :
 WONDER IA-2DUP



Tgt Ion: 41 Resp: 172174
 Ion Ratio Lower Upper
 41 100
 42 227.8 53.2 79.8

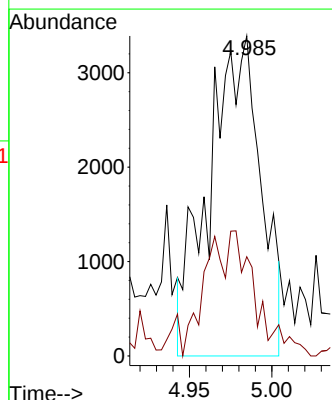
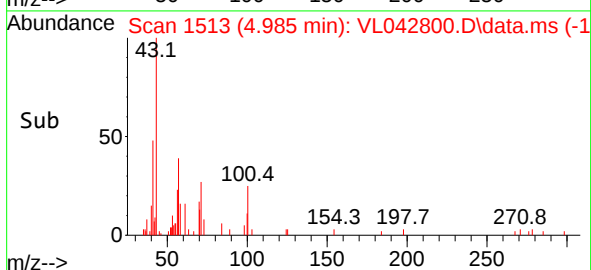
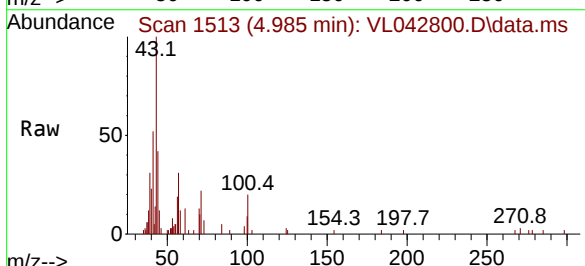
Manual Integrations
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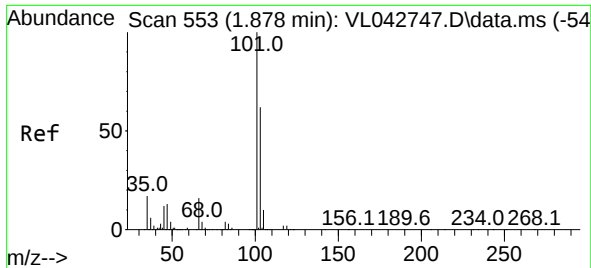
Reviewed By :Semsettin Yesilyurt 08/06/2025
 Supervised By :Mahesh Dadoda 08/06/2025



#10
 Heptane
 Concen: 0.257 ppbv m
 RT: 4.985 min Scan# 1513
 Delta R.T. 0.010 min
 Lab File: VL042800.D
 Acq: 04 Aug 2025 12:23

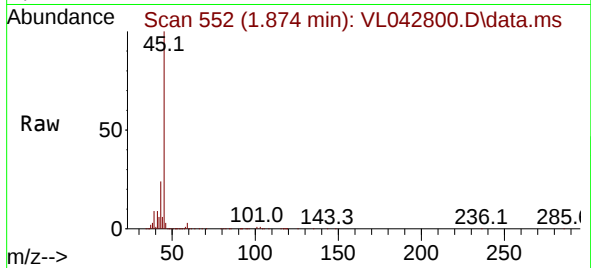
Tgt Ion: 43 Resp: 7448
 Ion Ratio Lower Upper
 43 100
 57 38.3 39.9 59.9





#11
Trichlorofluoromethane
Concen: 0.204 ppbv
RT: 1.874 min Scan# 506
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

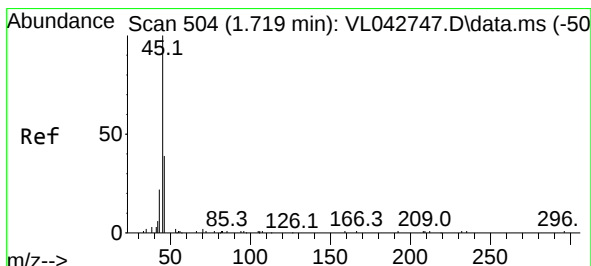
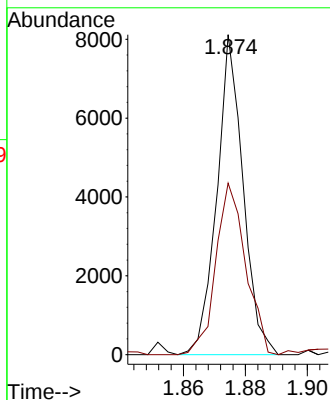
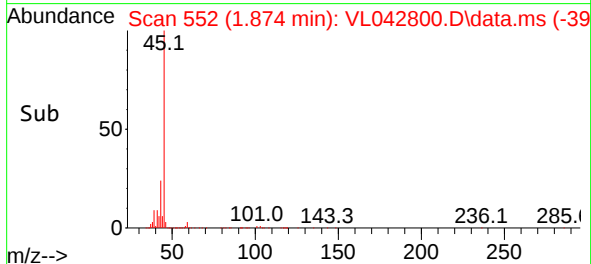
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP



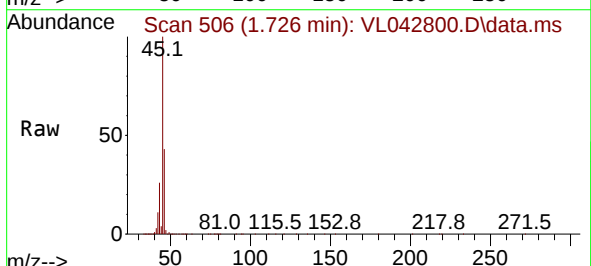
Tgt Ion:101 Resp: 4760
Ion Ratio Lower Upper
101 100
103 53.6 49.6 74.4

Manual Integrations
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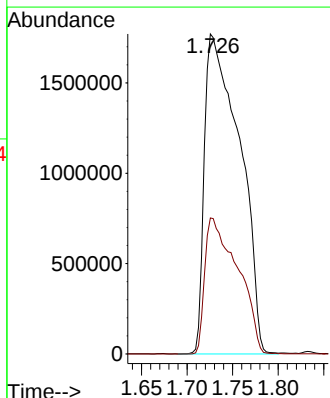
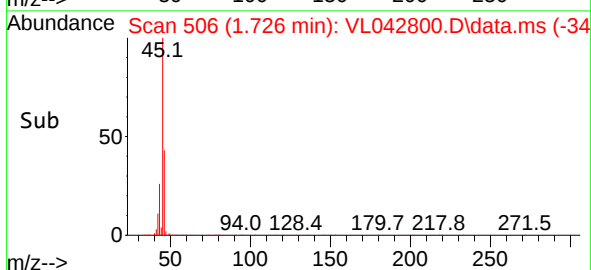
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

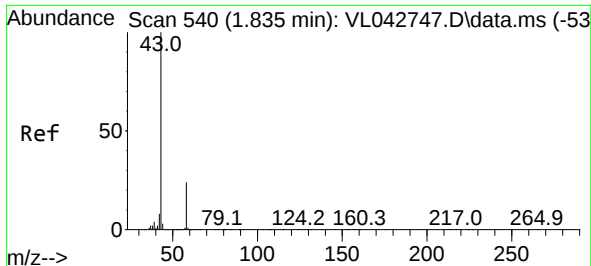


#13
Ethanol
Concen: 6061.609 ppbv
RT: 1.726 min Scan# 506
Delta R.T. 0.007 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23



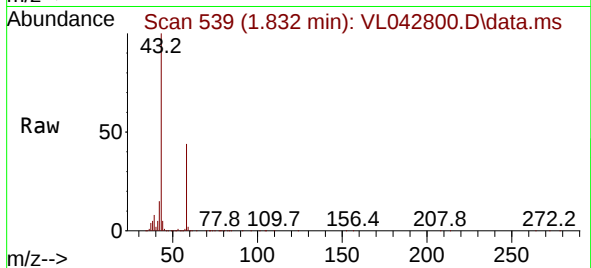
Tgt Ion: 45 Resp: 4743135
Ion Ratio Lower Upper
45 100
46 40.0 17.8 71.4





#15
Acetone
Concen: 95.847 ppbv
RT: 1.832 min Scan# 511
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

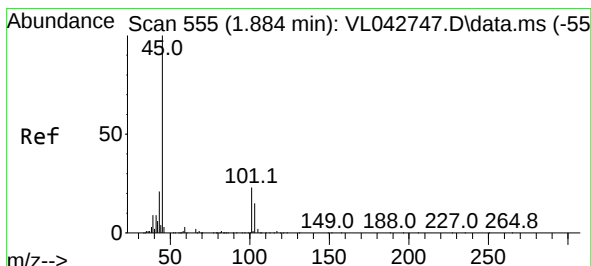
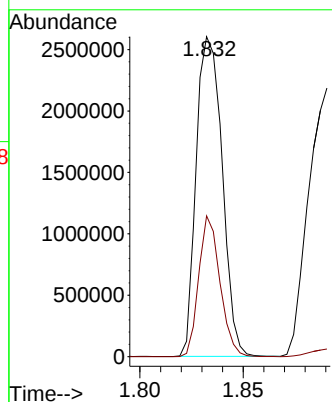
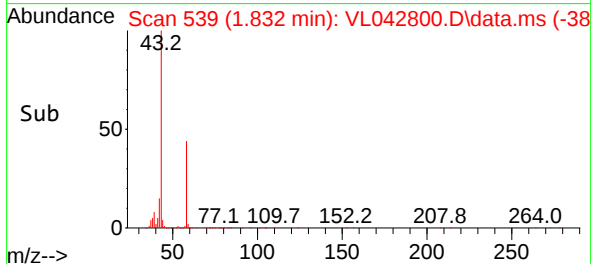
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP



Tgt Ion: 43 Resp: 2271710
Ion Ratio Lower Upper
43 100
58 36.1 19.8 29.8

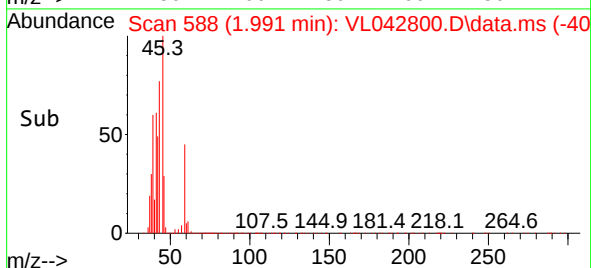
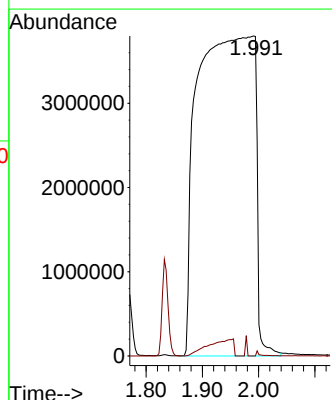
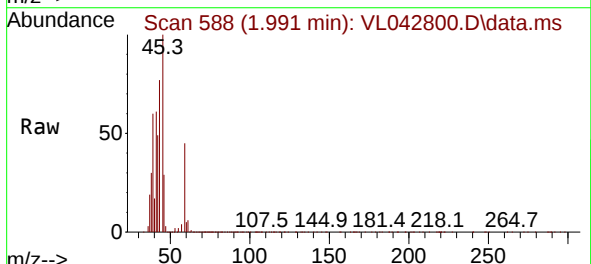
Manual Integrations
APPROVED

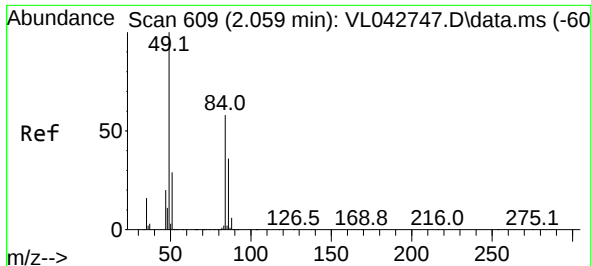
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#19
Isopropyl Alcohol
Concen: 2120.728 ppbv m
RT: 1.991 min Scan# 588
Delta R.T. 0.107 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 45 Resp:26711107
Ion Ratio Lower Upper
45 100
58 0.3 30.0 45.0#





#20

Methylene Chloride

Concen: 2.246 ppbv

RT: 2.062 min Scan# 610

Delta R.T. 0.003 min

Lab File: VL042800.D

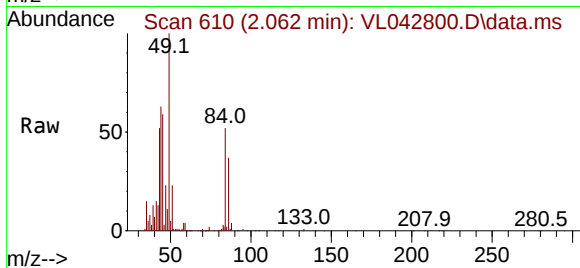
Acq: 04 Aug 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

WONDER IA-2DUP



Tgt Ion: 84 Resp: 16770

Ion Ratio Lower Upper

84 100

49 192.4 138.6 208.0

51 43.7 40.6 61.0

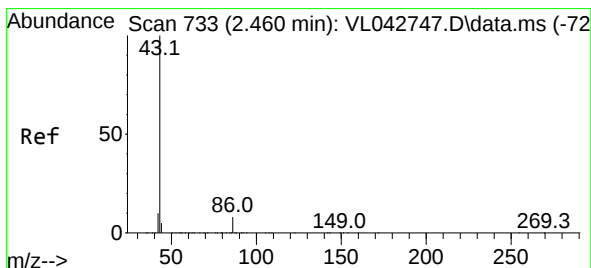
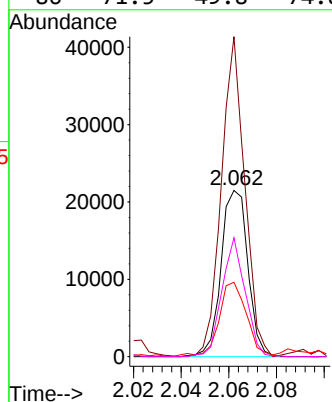
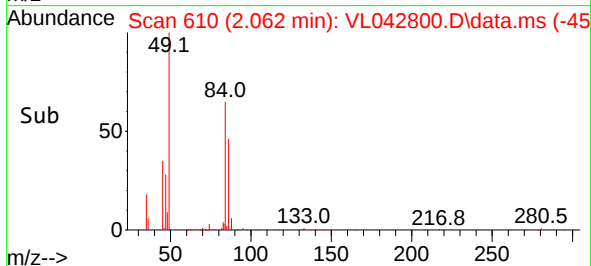
86 71.5 49.8 74.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#23

Vinyl Acetate

Concen: 2.015 ppbv

RT: 2.460 min Scan# 733

Delta R.T. 0.000 min

Lab File: VL042800.D

Acq: 04 Aug 2025 12:23

Tgt Ion: 43 Resp: 57901

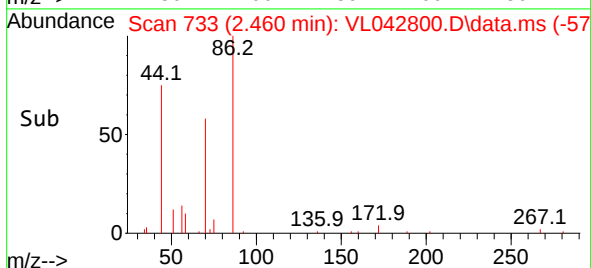
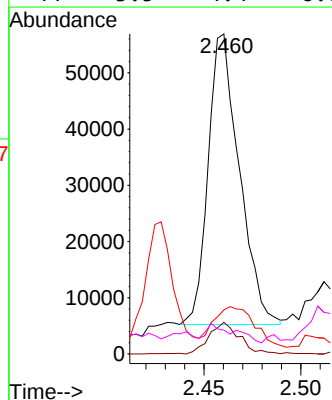
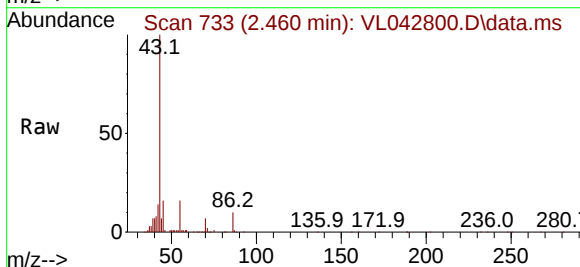
Ion Ratio Lower Upper

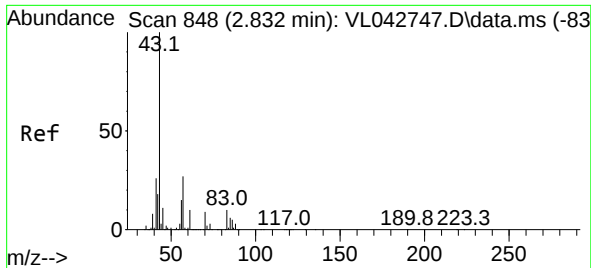
43 100

86 10.8 6.1 9.1#

42 12.1 7.8 11.8#

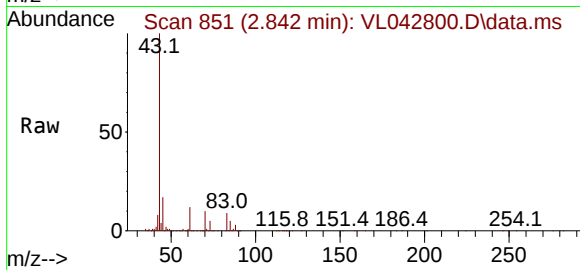
44 3.5 4.4 6.6#





#25
Ethyl Acetate
Concen: 5.242 ppbv m
RT: 2.842 min Scan# 848
Delta R.T. 0.010 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

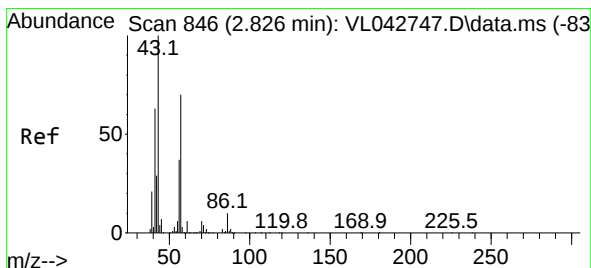
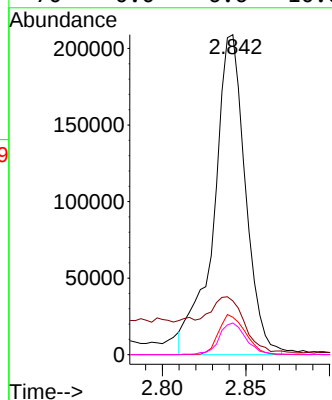
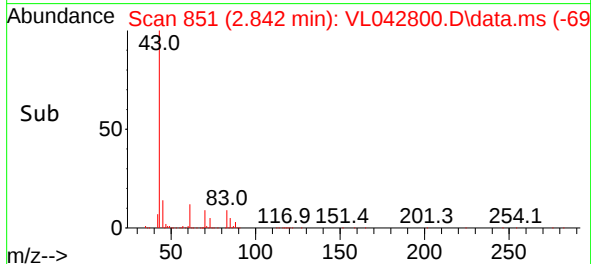
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP



Tgt Ion: 43 Resp: 274990
Ion Ratio Lower Upper
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45 0.0 7.8 11.6
61 0.0 6.7 10.1
70 0.0 6.6 10.0

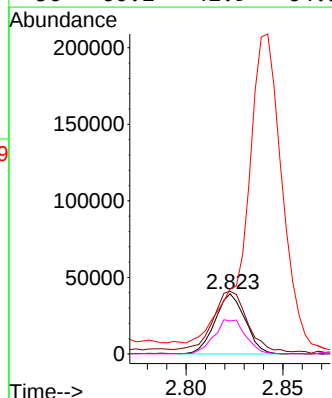
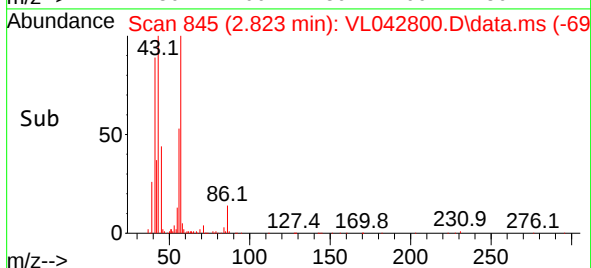
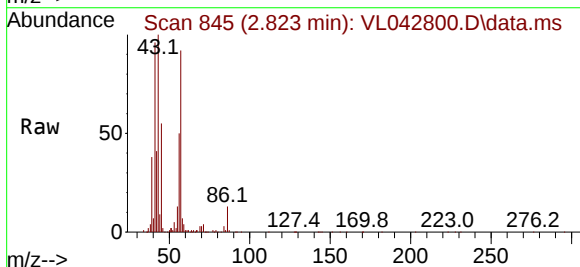
Manual Integrations
APPROVED

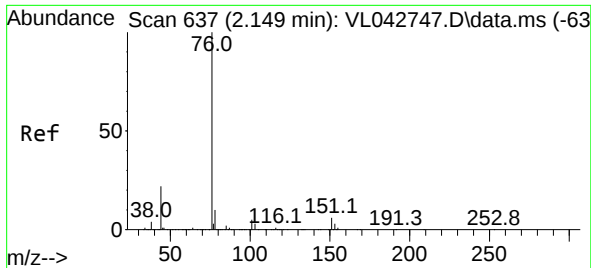
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#26
Hexane
Concen: 1.856 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

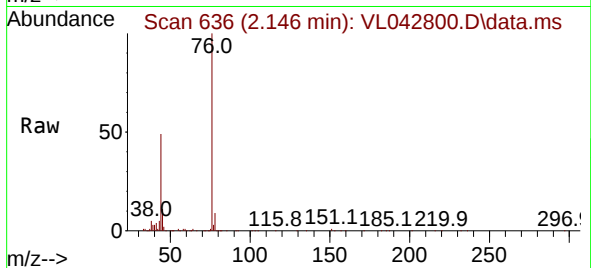
Tgt Ion: 57 Resp: 42707
Ion Ratio Lower Upper
57 100
41 135.4 75.4 113.2#
43 682.6 185.0 277.6#
56 60.2 42.9 64.3





#27
Carbon Disulfide
Concen: 3.404 ppbv
RT: 2.146 min Scan# 611
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

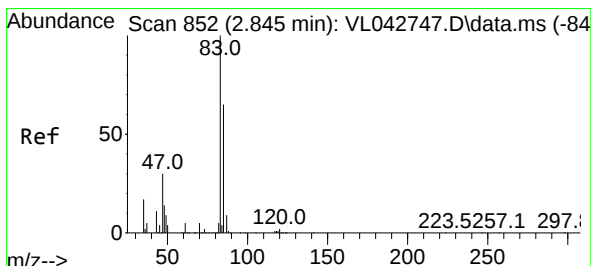
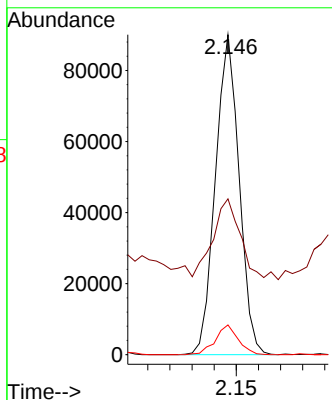
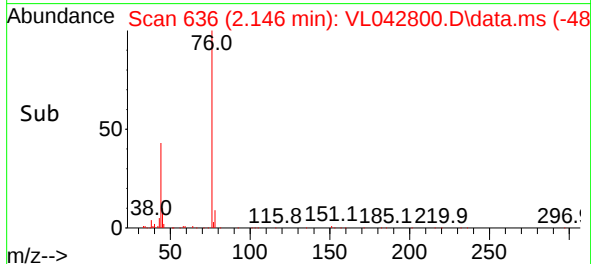
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP



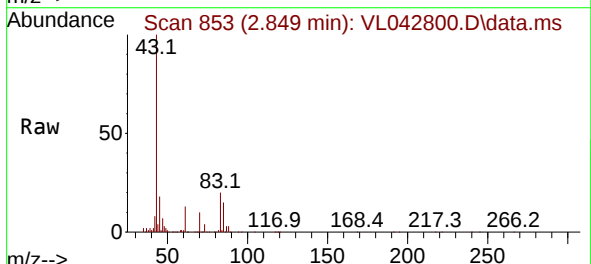
Tgt Ion: 76 Resp: 67073
Ion Ratio Lower Upper
76 100
44 0.0 19.3 28.9
78 8.9 9.9 14.9

Manual Integrations
APPROVED

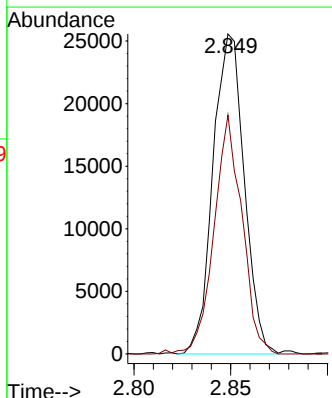
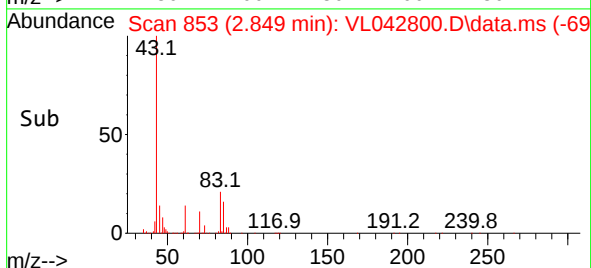
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

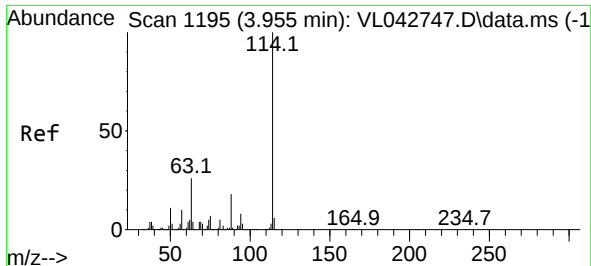


#29
Chloroform
Concen: 0.806 ppbv
RT: 2.849 min Scan# 853
Delta R.T. 0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23



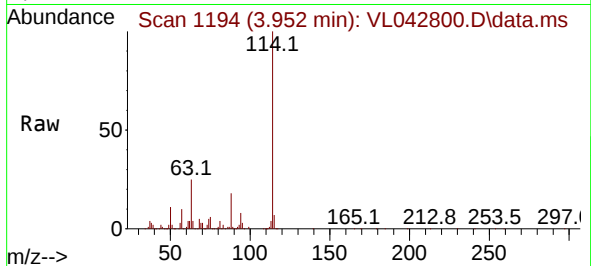
Tgt Ion: 83 Resp: 28648
Ion Ratio Lower Upper
83 100
85 74.7 52.2 78.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

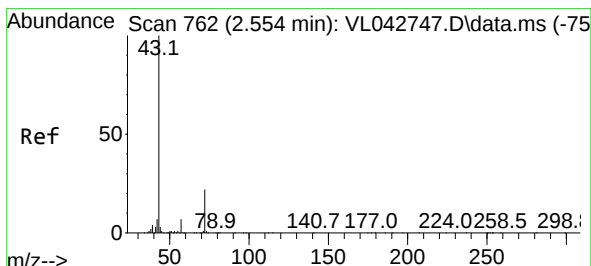
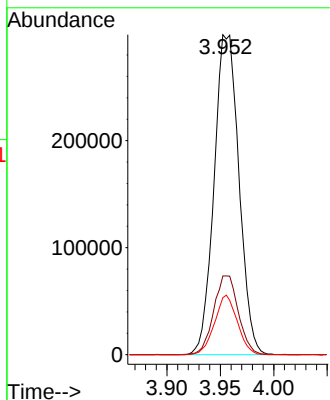
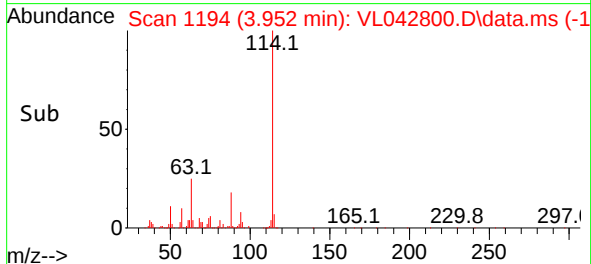
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP



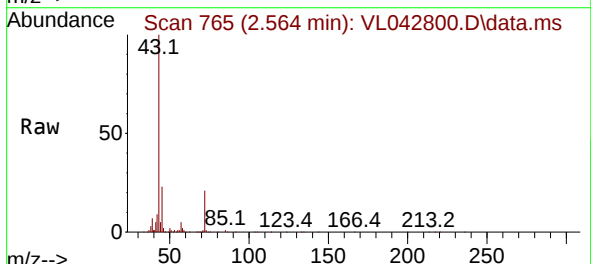
Tgt Ion:114 Resp: 484990
Ion Ratio Lower Upper
114 100
63 24.4 20.5 30.7
88 17.0 14.0 21.0

Manual Integrations
APPROVED

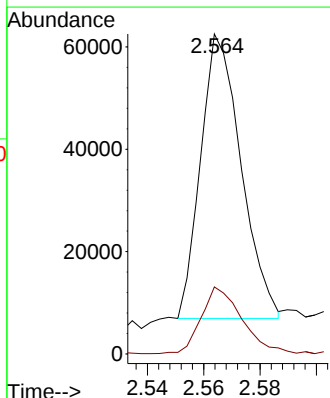
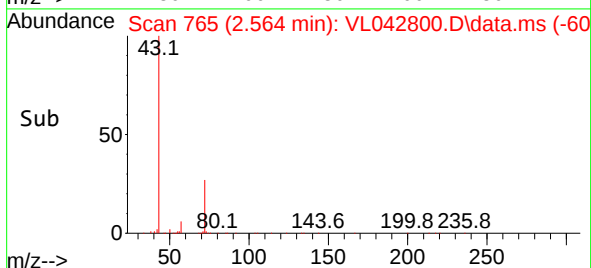
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

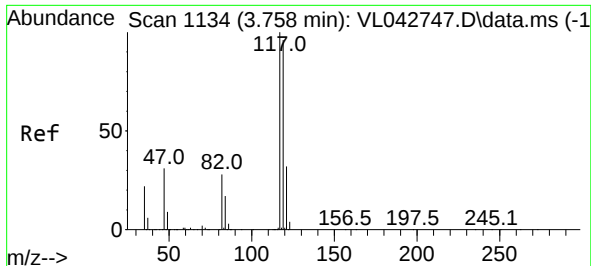


#34
2-Butanone
Concen: 1.608 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.010 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23



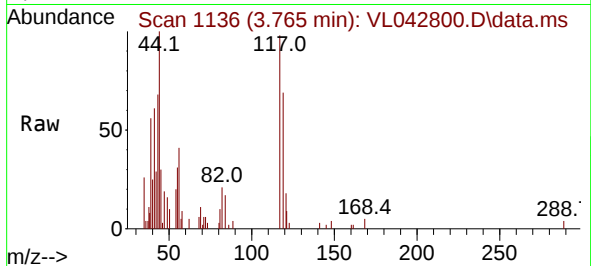
Tgt Ion: 43 Resp: 55250
Ion Ratio Lower Upper
43 100
72 25.0 17.4 26.0





#35
Carbon Tetrachloride
Concen: 0.111 ppbv m
RT: 3.765 min Scan# 1134
Delta R.T. 0.007 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

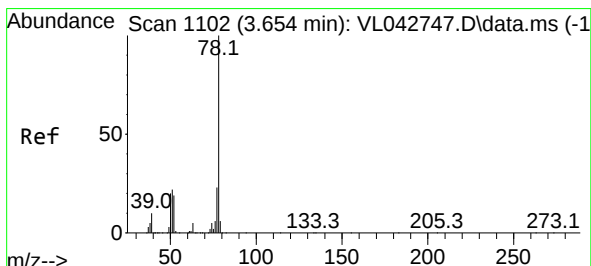
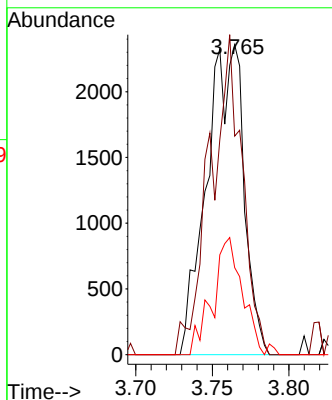
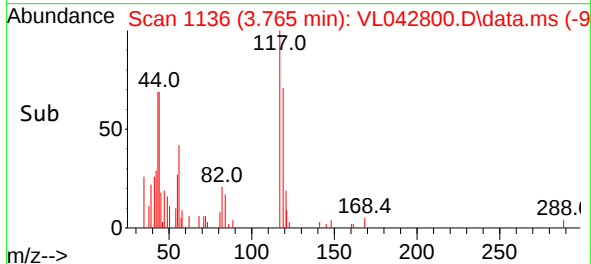
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP



Tgt Ion: 117 Resp: 3994
Ion Ratio Lower Upper
117 100
119 70.5 77.1 115.7
121 18.6 25.5 38.3

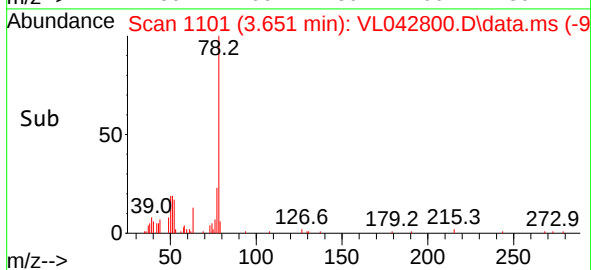
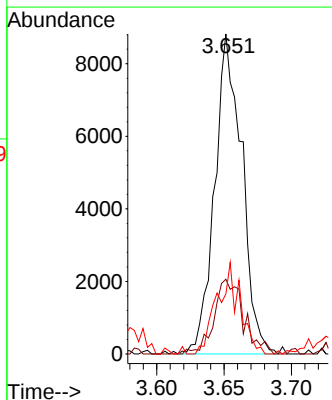
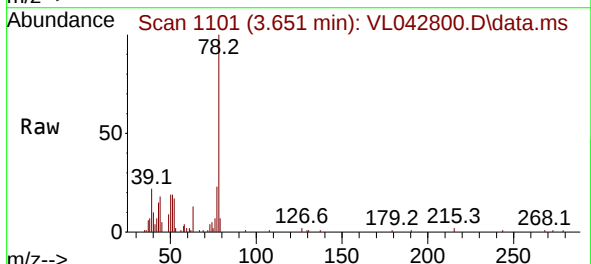
Manual Integrations
APPROVED

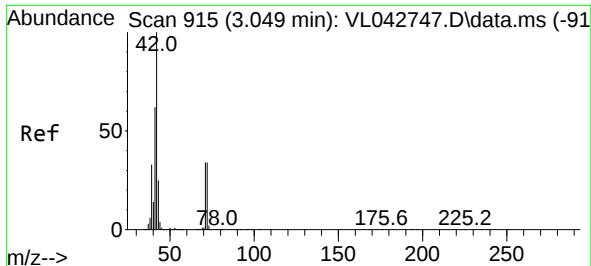
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#36
Benzene
Concen: 0.269 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

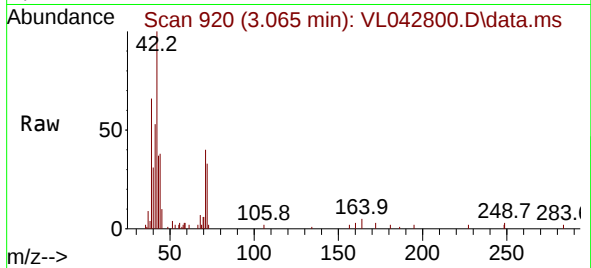
Tgt Ion: 78 Resp: 12369
Ion Ratio Lower Upper
78 100
77 23.3 18.5 27.7
50 18.8 16.2 24.2





#41
Tetrahydrofuran
Concen: 0.562 ppbv m
RT: 3.065 min Scan# 915
Delta R.T. 0.016 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

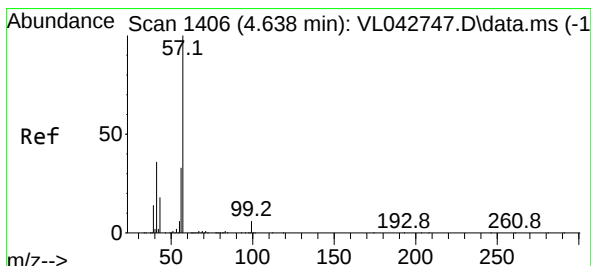
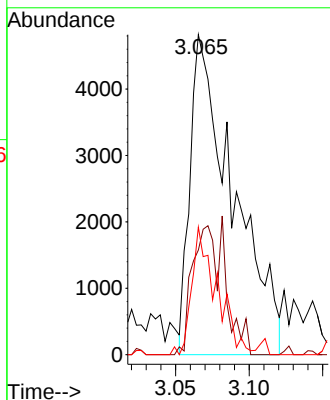
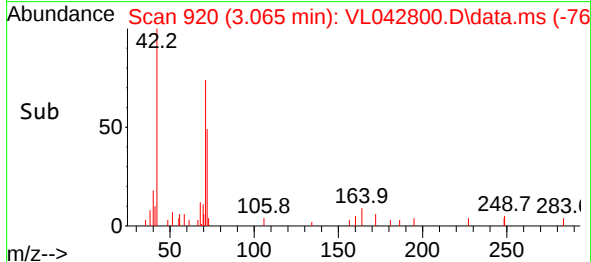
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP



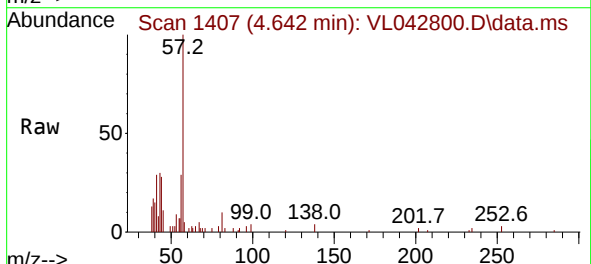
Tgt Ion: 42 Resp: 9820
Ion Ratio Lower Upper
42 100
72 0.0 30.9 46.3#
71 23.1 28.6 43.0#

Manual Integrations
APPROVED

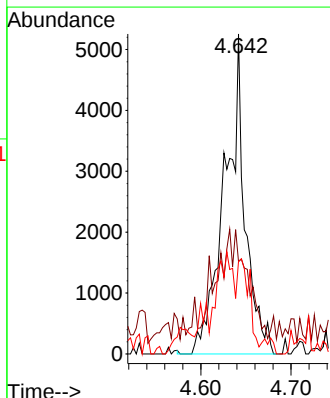
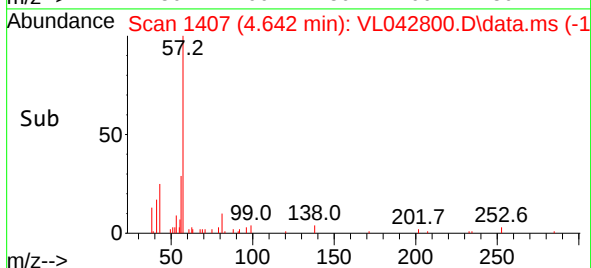
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

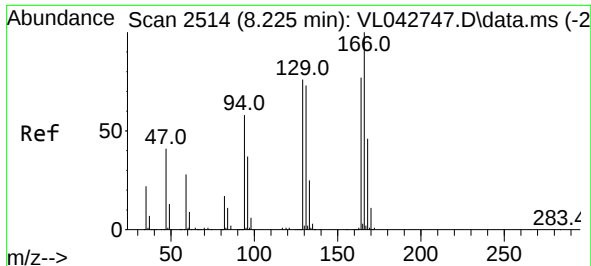


#44
2,2,4-Trimethylpentane
Concen: 0.110 ppbv m
RT: 4.642 min Scan# 1407
Delta R.T. 0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23



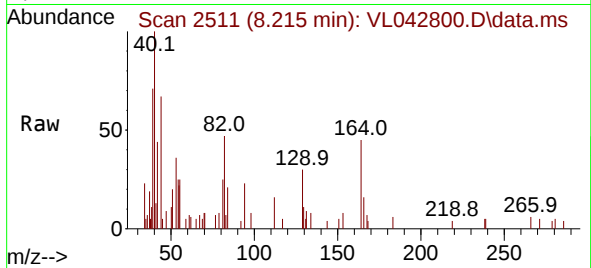
Tgt Ion: 57 Resp: 8220
Ion Ratio Lower Upper
57 100
41 67.3 28.3 42.5#
56 60.4 25.8 38.6#





#52
Tetrachloroethene
Concen: 0.031 ppbv m
RT: 8.215 min Scan# 2113
Delta R.T. -0.010 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

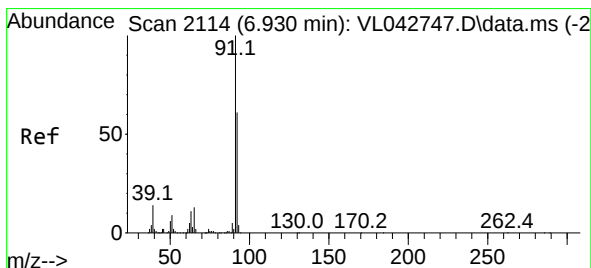
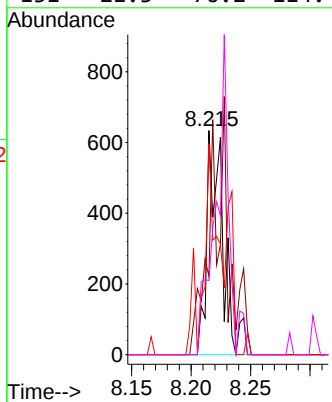
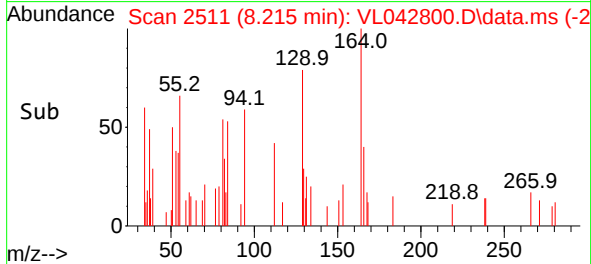
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP



Tgt Ion:164 Resp: 592
Ion Ratio Lower Upper
164 100
166 35.0 104.0 156.0
129 68.5 79.2 118.8
131 21.3 76.2 114.4

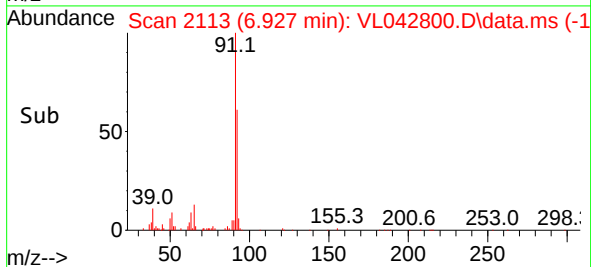
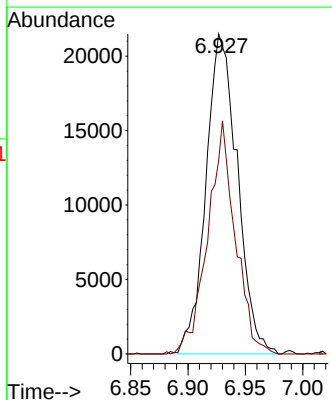
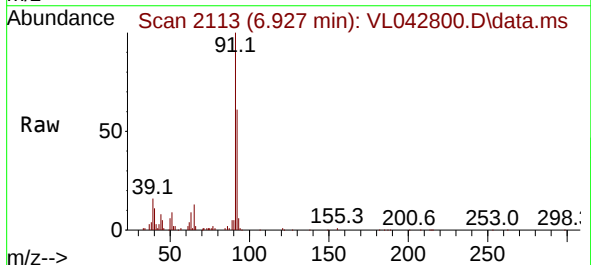
Manual Integrations
APPROVED

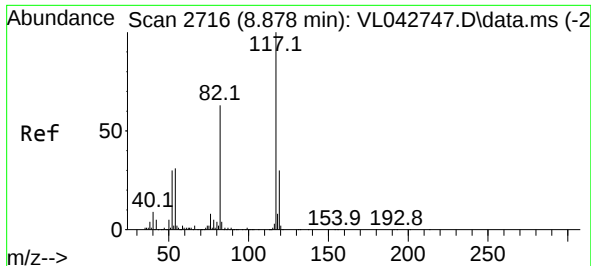
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#53
Toluene
Concen: 0.829 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 91 Resp: 40915
Ion Ratio Lower Upper
91 100
92 64.1 48.0 72.0





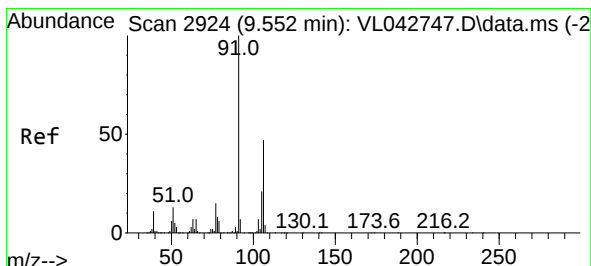
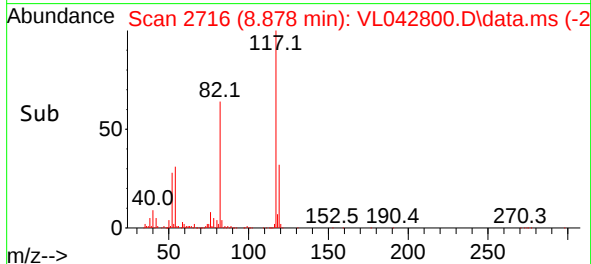
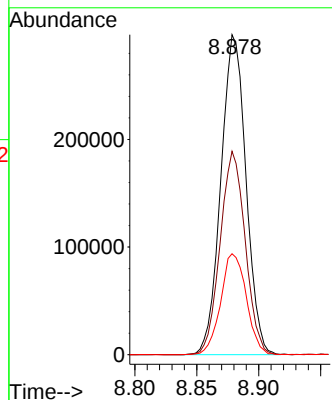
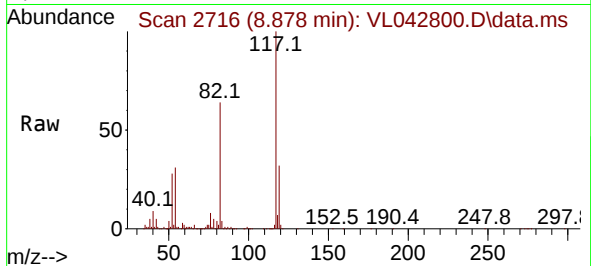
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Tgt Ion:117 Resp: 41989
Ion Ratio Lower Upper
117 100
82 63.6 53.3 79.9
119 32.3 25.8 38.6

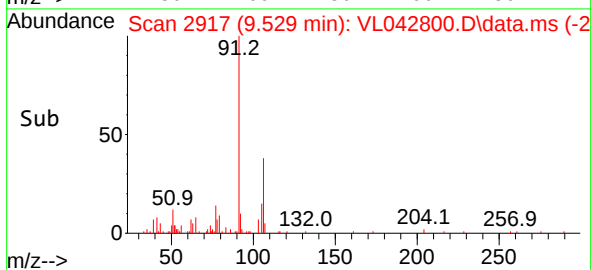
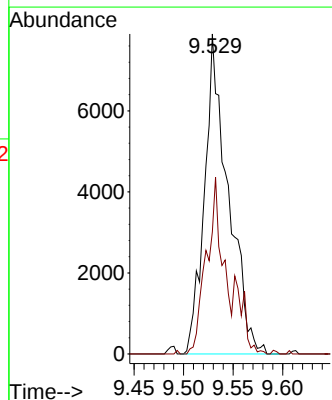
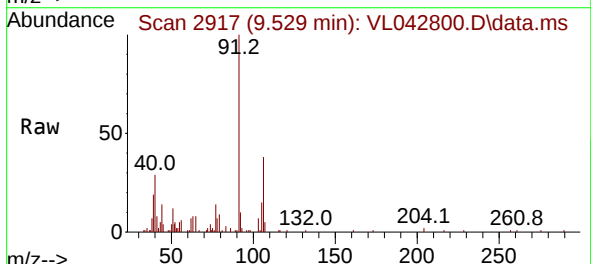
Manual Integrations
APPROVED

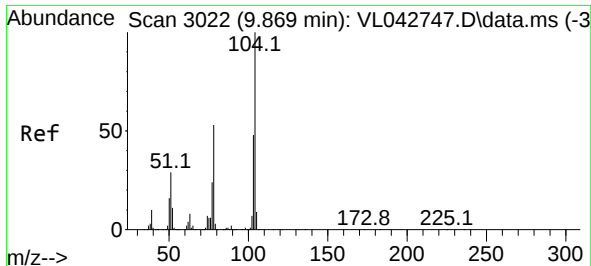
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#59
m/p-Xylene
Concen: 0.247 ppbv m
RT: 9.529 min Scan# 2917
Delta R.T. -0.023 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 91 Resp: 13111
Ion Ratio Lower Upper
91 100
106 49.1 37.4 56.2





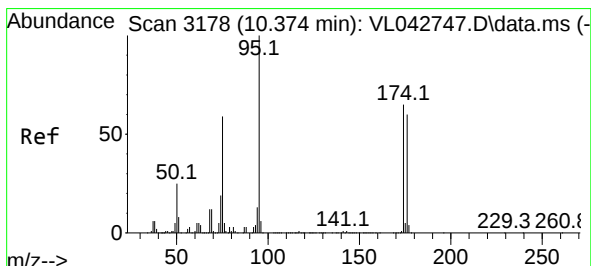
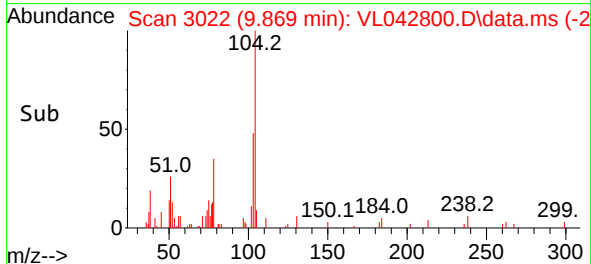
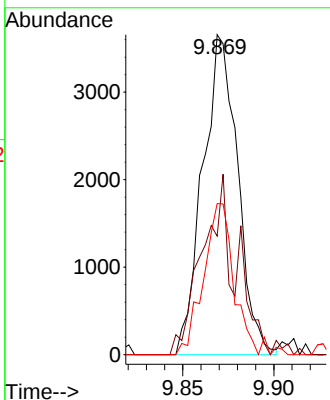
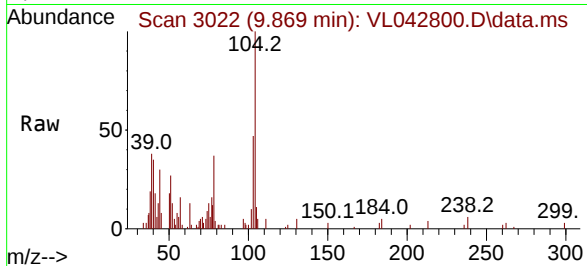
#61
Styrene
Concen: 0.218 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. 0.000 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP

Tgt Ion:104 Resp: 486
Ion Ratio Lower Upper
104 100
78 55.8 41.5 62.3
103 41.9 37.5 56.3

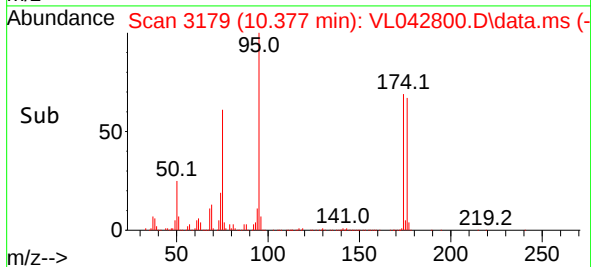
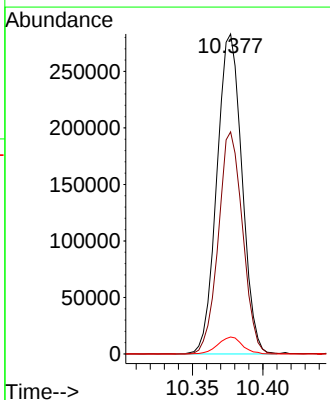
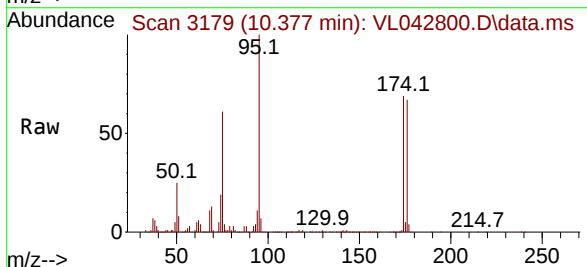
Manual Integrations
APPROVED

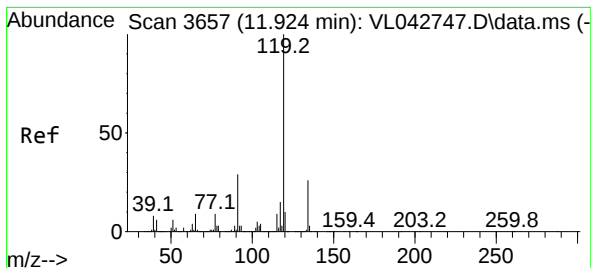
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.561 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

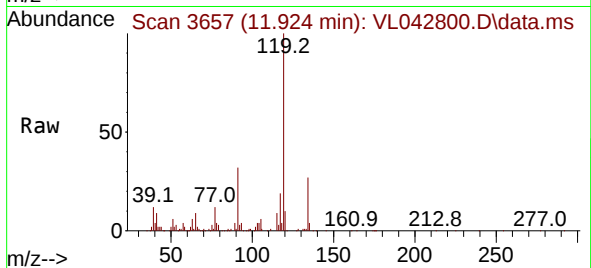
Tgt Ion: 95 Resp: 351197
Ion Ratio Lower Upper
95 100
174 67.4 53.8 80.6
175 5.2 4.0 6.0





#69
p-Isopropyltoluene
Concen: 0.677 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. 0.000 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

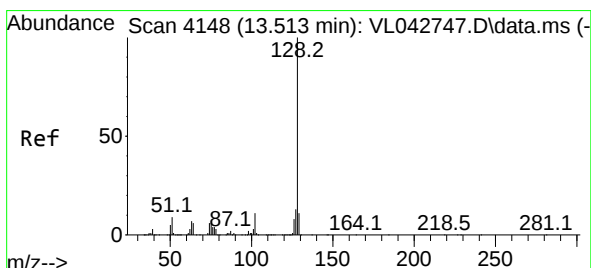
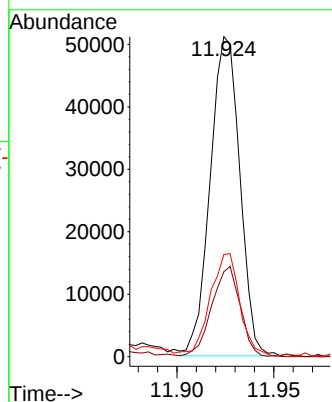
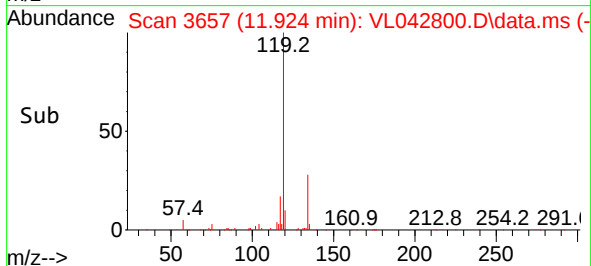
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2DUP



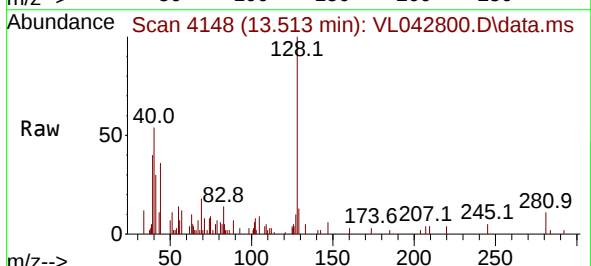
Tgt Ion:119 Resp: 54500
Ion Ratio Lower Upper
119 100
134 27.4 20.6 31.0
91 32.6 23.2 34.8

Manual Integrations
APPROVED

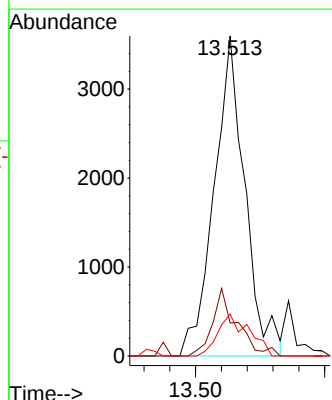
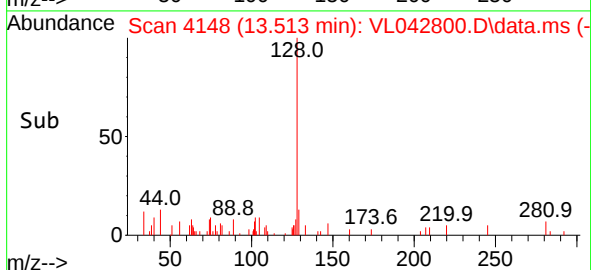
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

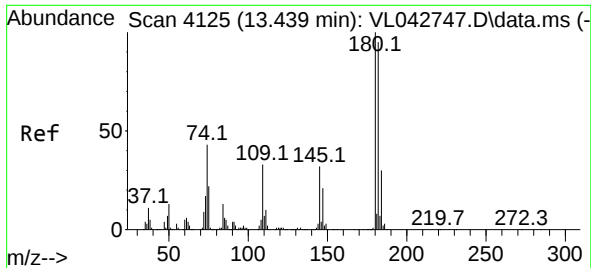


#79
Naphthalene
Concen: 0.481 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. 0.000 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23



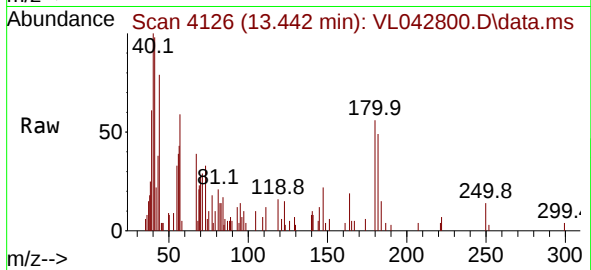
Tgt Ion:128 Resp: 2980
Ion Ratio Lower Upper
128 100
127 10.3 10.5 15.7#
129 13.0 8.6 13.0#





#81
 1,2,4-Trichlorobenzene
 Concen: 0.453 ppbv m
 RT: 13.442 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042800.D
 Acq: 04 Aug 2025 12:23

Instrument :
 MSVOA_L
 ClientSampleId :
 WONDER IA-2DUP



Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.7	76.2	114.2
184	18.7	24.8	37.2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/06/2025
 Supervised By :Mahesh Dadoda 08/06/2025

