

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
 Data File : VL042799.D
 Acq On : 04 Aug 2025 11:49
 Operator : SY/MD
 Sample : Q2750-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 WONDER IA-2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
 Supervised By :Mahesh Dadoda 08/05/2025

Quant Time: Aug 05 01:01:57 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 2025

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	168040	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	466299	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	405142	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	346336	10.794	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.900%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	11725	0.528	ppbv	93
3) Chlorodifluoromethane	1.473	51	1667967	57.631	ppbv #	80
4) Chloromethane	1.531	50	69558	7.739	ppbv	96
9) Propene	1.486	41	167322m	15.907	ppbv	
10) Heptane	4.981	43	7274m	0.256	ppbv	
11) Trichlorofluoromethane	1.877	101	4681	0.204	ppbv	94
13) Ethanol	1.725	45	4604154	6010.216	ppbv	93
15) Acetone	1.832	43	2199380	94.786	ppbv #	77
19) Isopropyl Alcohol	1.994	45	26405566m	2141.446	ppbv	
20) Methylene Chloride	2.062	84	14457	1.977	ppbv	98
23) Vinyl Acetate	2.460	43	59640	2.120	ppbv #	90
25) Ethyl Acetate	2.842	43	264836m	5.156	ppbv	
26) Hexane	2.823	57	43398	1.926	ppbv #	1
27) Carbon Disulfide	2.146	76	70116	3.635	ppbv #	65
29) Chloroform	2.848	83	28519	0.819	ppbv	97
34) 2-Butanone	2.564	43	63731	1.929	ppbv	99
35) Carbon Tetrachloride	3.764	117	3474m	0.100	ppbv	
36) Benzene	3.654	78	13550	0.307	ppbv	96
41) Tetrahydrofuran	3.072	42	9335m	0.555	ppbv	
44) 2,2,4-Trimethylpentane	4.638	57	8131m	0.113	ppbv	
52) Tetrachloroethene	8.215	164	799m	0.044	ppbv	
53) Toluene	6.933	91	42388	0.893	ppbv	98
59) m/p-Xylene	9.529	91	13930m	0.272	ppbv	
61) Styrene	9.869	104	4307m	0.200	ppbv	
69) p-Isopropyltoluene	11.927	119	54078	0.697	ppbv #	93
79) Naphthalene	13.513	128	6363	0.537	ppbv #	91
81) 1,2,4-Trichlorobenzene	13.442	180	2468	0.506	ppbv #	90

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

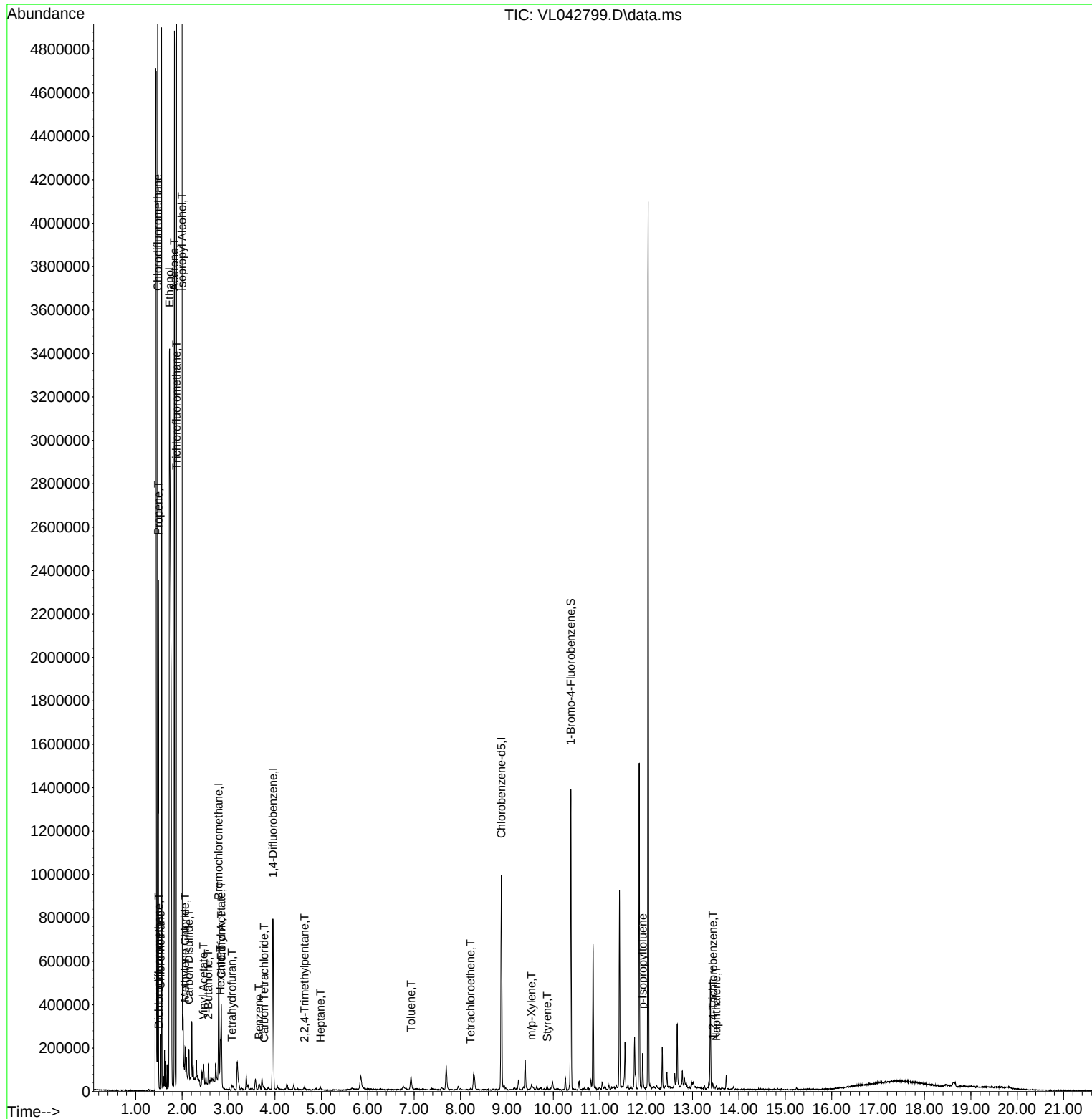
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
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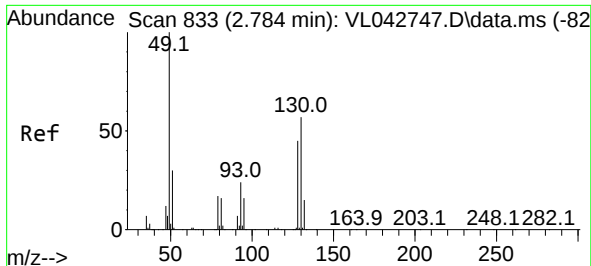
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Quant Time: Aug 05 01:01:57 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
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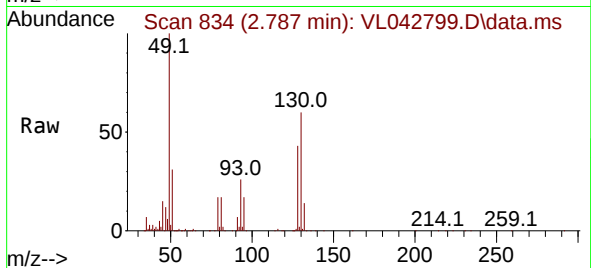
Reviewed By : Semsettin Yesilyurt 08/05/2025
Supervised By : Mahesh Dadoda 08/05/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

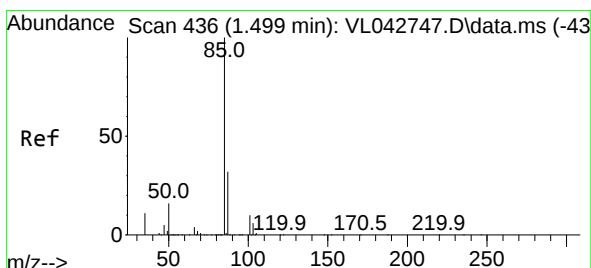
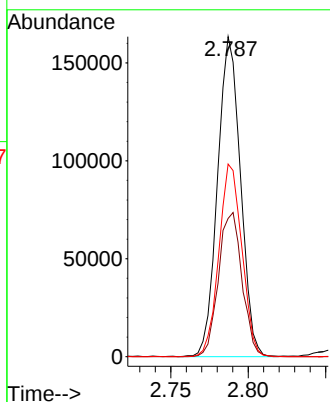
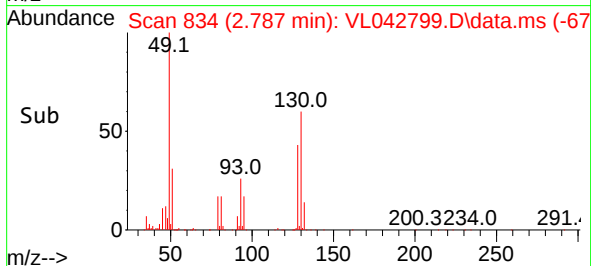
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2



Tgt Ion: 49 Resp: 168040
Ion Ratio Lower Upper
49 100
128 46.4 23.6 71.0
130 60.3 30.3 90.8

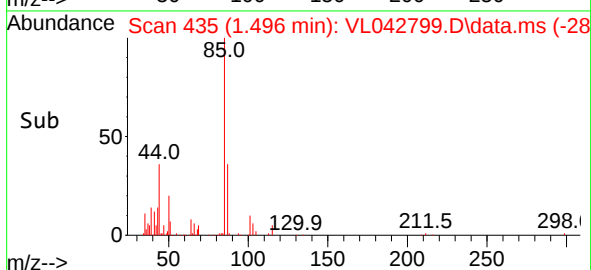
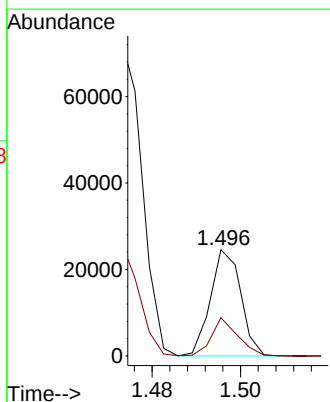
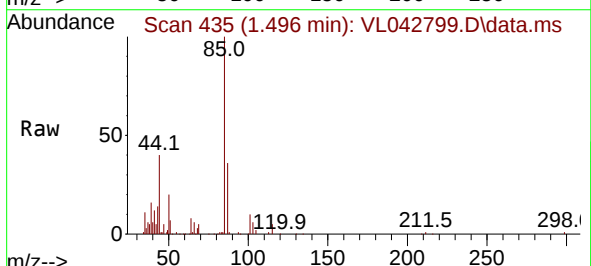
Manual Integrations
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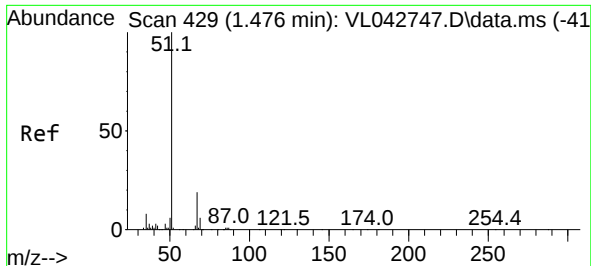
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025



#2
Dichlorodifluoromethane
Concen: 0.528 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 85 Resp: 11725
Ion Ratio Lower Upper
85 100
87 35.7 25.4 38.2





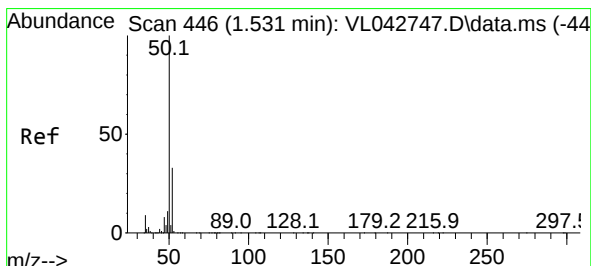
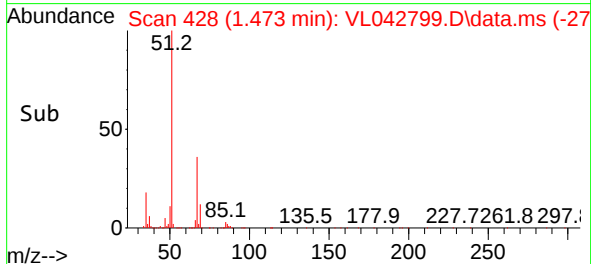
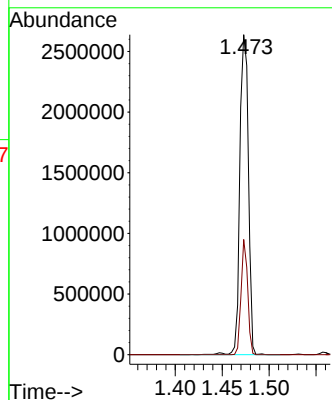
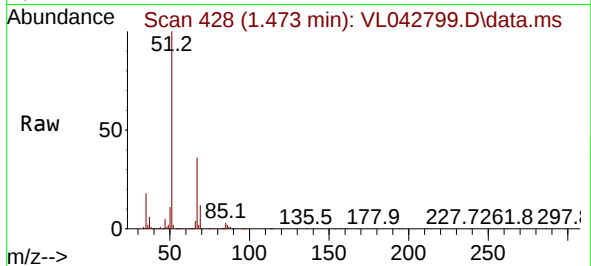
#3
Chlorodifluoromethane
Concen: 57.631 ppbv
RT: 1.473 min Scan# 429
Delta R.T. -0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Tgt Ion: 51 Resp: 166796
Ion Ratio Lower Upper
51 100
67 27.7 15.0 22.6

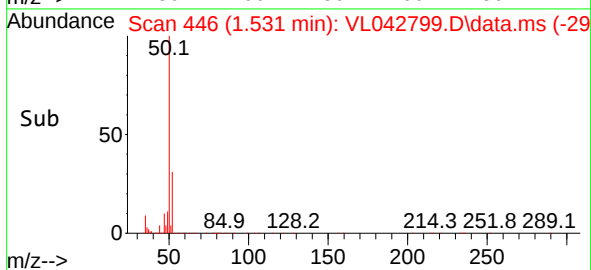
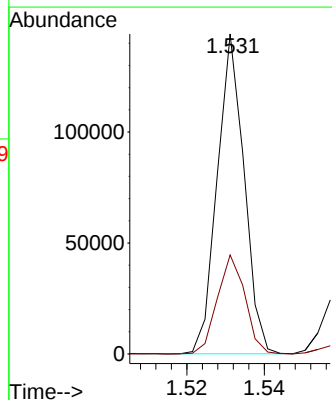
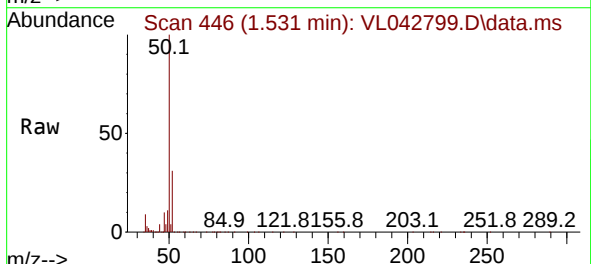
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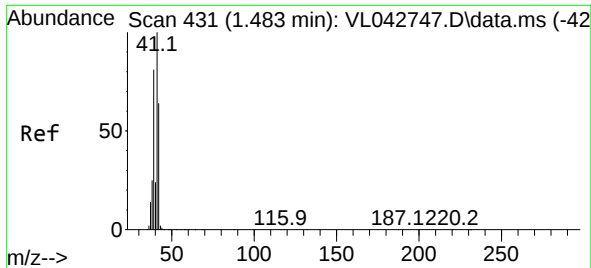
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025



#4
Chloromethane
Concen: 7.739 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 50 Resp: 69558
Ion Ratio Lower Upper
50 100
52 30.9 26.6 40.0





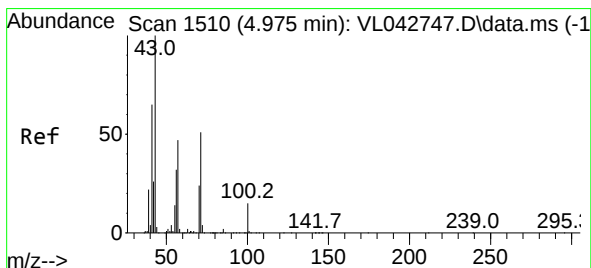
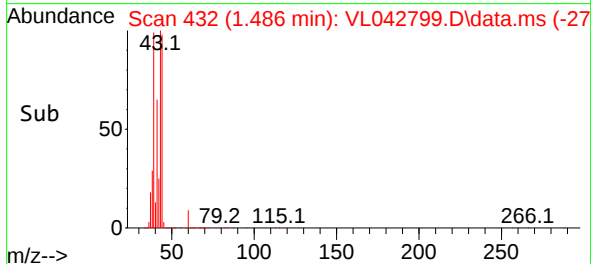
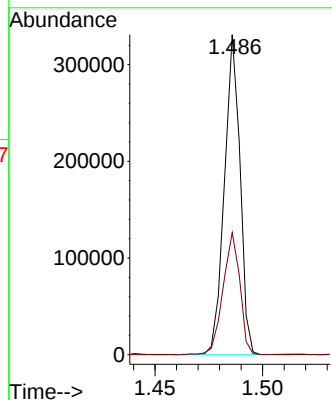
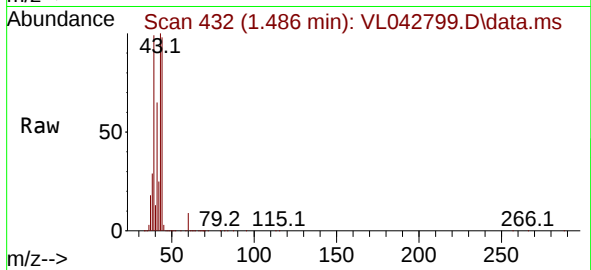
#9
 Propene
 Concen: 15.907 ppbv m
 RT: 1.486 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042799.D
 Acq: 04 Aug 2025 11:49

Instrument :
 MSVOA_L
 ClientSampleId :
 WONDER IA-2

Tgt Ion: 41 Resp: 16732
 Ion Ratio Lower Upper
 41 100
 42 230.1 53.2 79.8

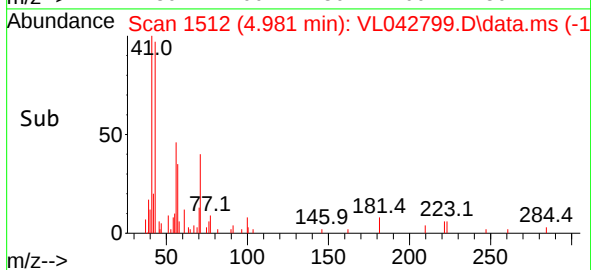
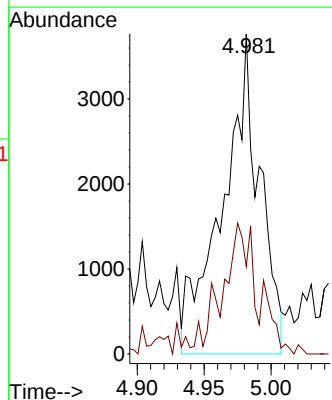
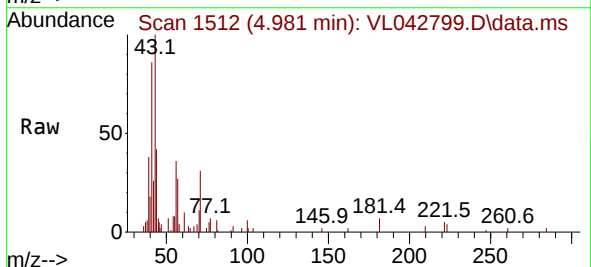
Manual Integrations
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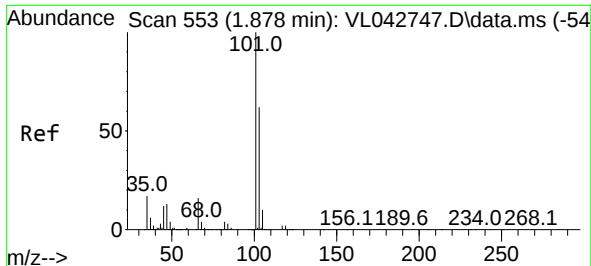
Reviewed By :Semsettin Yesilyurt 08/05/2025
 Supervised By :Mahesh Dadoda 08/05/2025



#10
 Heptane
 Concen: 0.256 ppbv m
 RT: 4.981 min Scan# 1512
 Delta R.T. 0.006 min
 Lab File: VL042799.D
 Acq: 04 Aug 2025 11:49

Tgt Ion: 43 Resp: 7274
 Ion Ratio Lower Upper
 43 100
 57 0.0 39.9 59.9





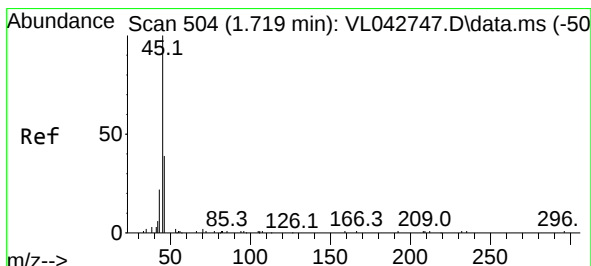
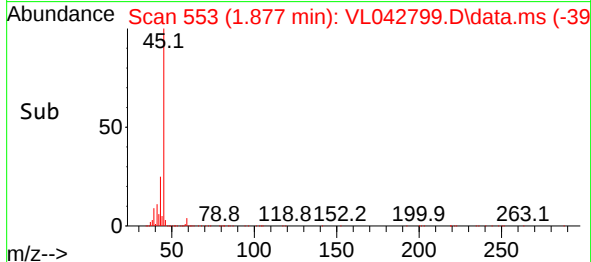
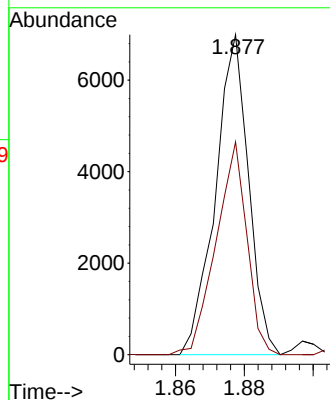
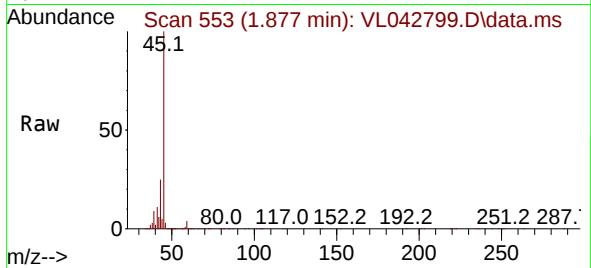
#11
Trichlorofluoromethane
Concen: 0.204 ppbv
RT: 1.877 min Scan# 506
Delta R.T. -0.000 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Tgt Ion:101 Resp: 468
Ion Ratio Lower Upper
101 100
103 66.5 49.6 74.4

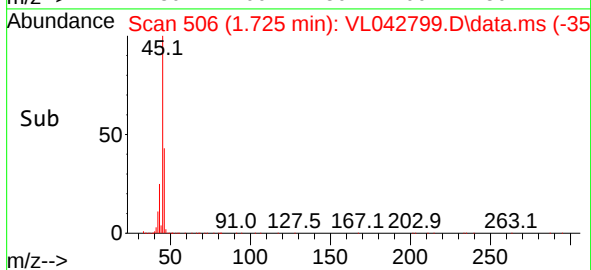
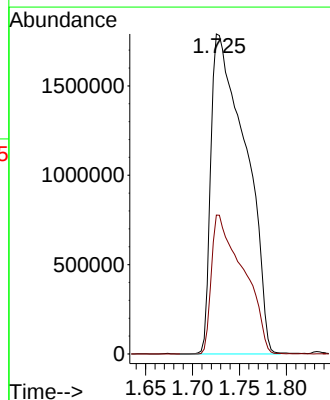
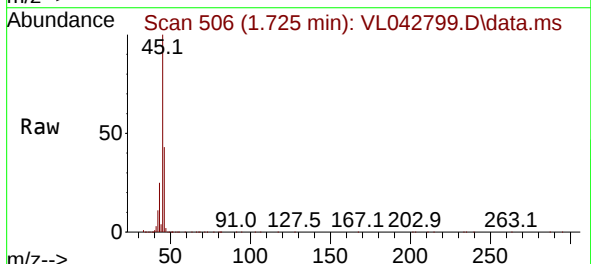
Manual Integrations
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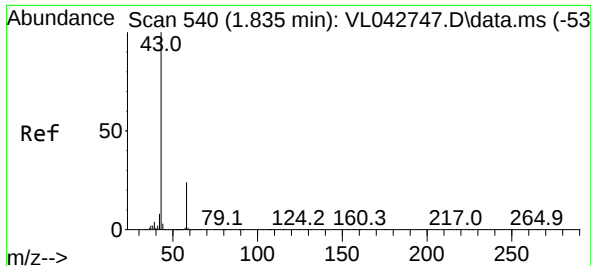
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025



#13
Ethanol
Concen: 6010.216 ppbv
RT: 1.725 min Scan# 506
Delta R.T. 0.006 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

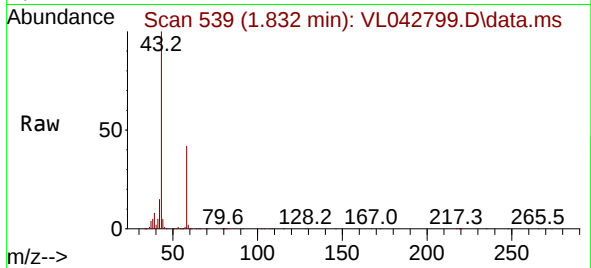
Tgt Ion: 45 Resp: 4604154
Ion Ratio Lower Upper
45 100
46 40.0 17.8 71.4





#15
Acetone
Concen: 94.786 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

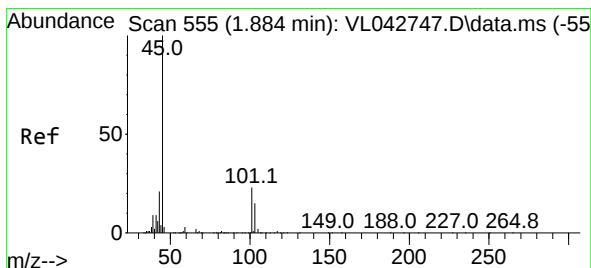
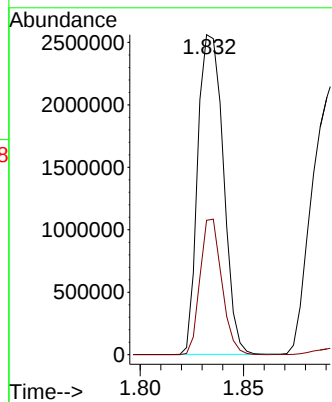
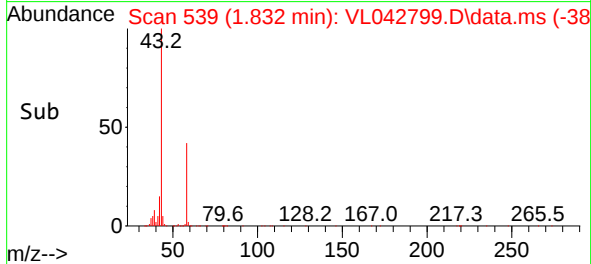
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2



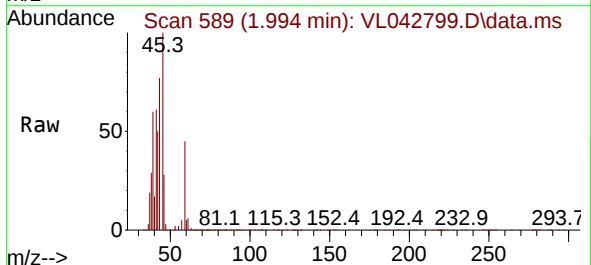
Tgt Ion: 43 Resp: 2199380
Ion Ratio Lower Upper
43 100
58 36.1 19.8 29.8

Manual Integrations
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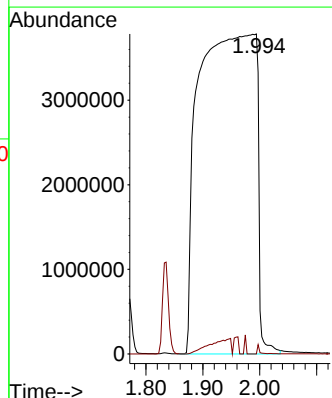
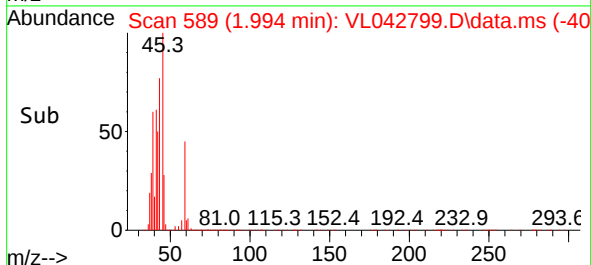
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

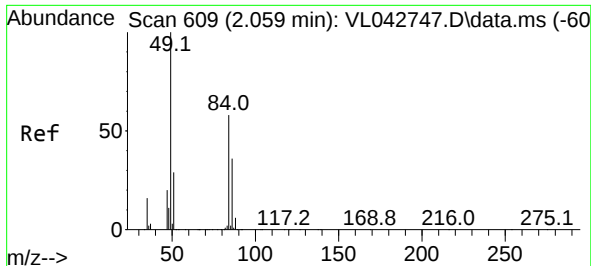


#19
Isopropyl Alcohol
Concen: 2141.446 ppbv m
RT: 1.994 min Scan# 589
Delta R.T. 0.110 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49



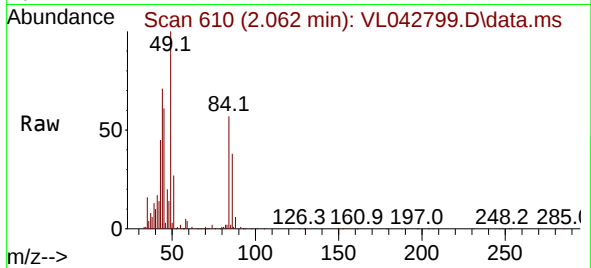
Tgt Ion: 45 Resp:26405566
Ion Ratio Lower Upper
45 100
58 2.4 30.0 45.0





#20
Methylene Chloride
Concen: 1.977 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

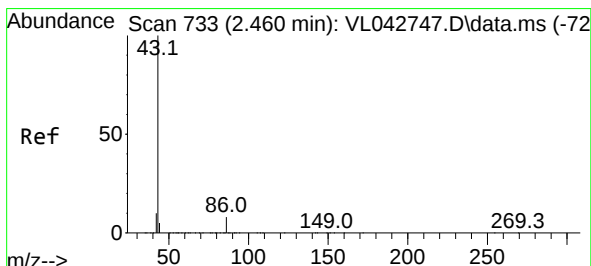
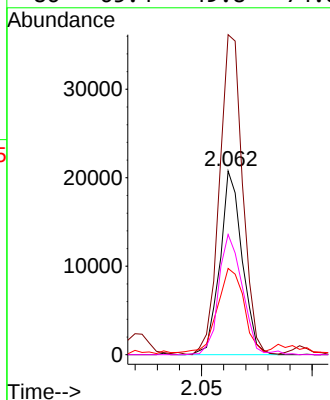
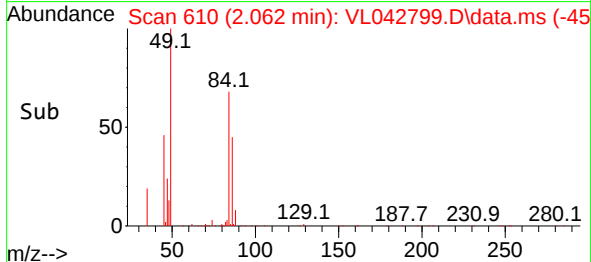
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WONDER IA-2



Tgt Ion:	84	Resp:	1445
Ion	Ratio	Lower	Upper
84	100		
49	173.8	138.6	208.0
51	45.5	40.6	61.0
86	65.4	49.8	74.8

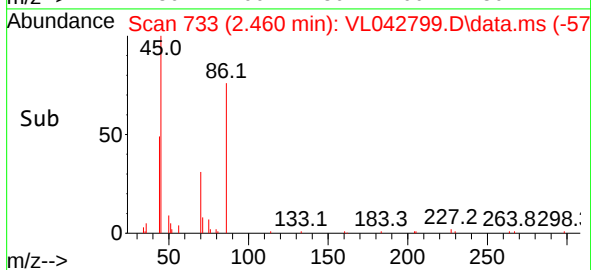
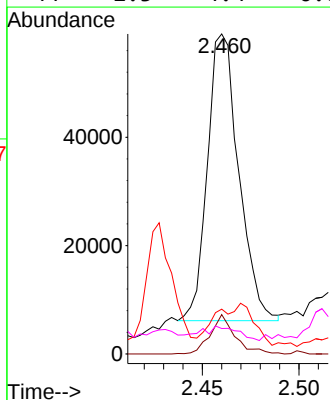
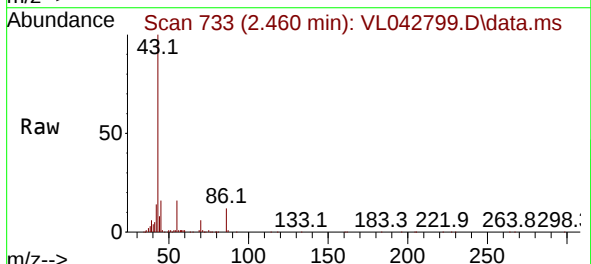
Manual Integrations
APPROVED

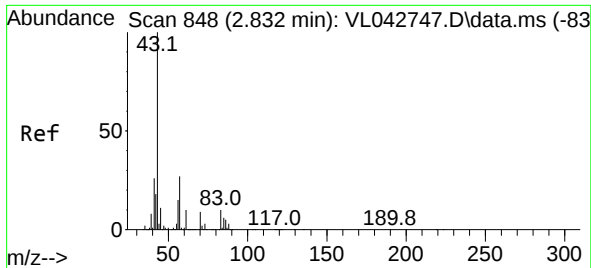
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025



#23
Vinyl Acetate
Concen: 2.120 ppbv
RT: 2.460 min Scan# 733
Delta R.T. -0.000 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

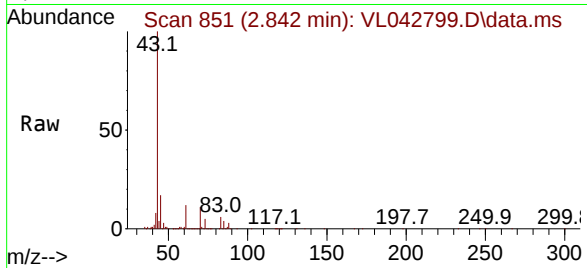
Tgt Ion:	43	Resp:	59640
Ion	Ratio	Lower	Upper
43	100		
86	13.6	6.1	9.1#
42	11.7	7.8	11.8
44	2.3	4.4	6.6#





#25
Ethyl Acetate
Concen: 5.156 ppbv m
RT: 2.842 min Scan# 848
Delta R.T. 0.010 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

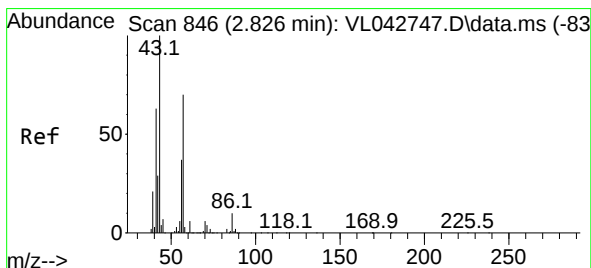
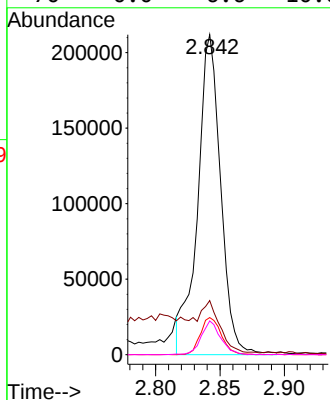
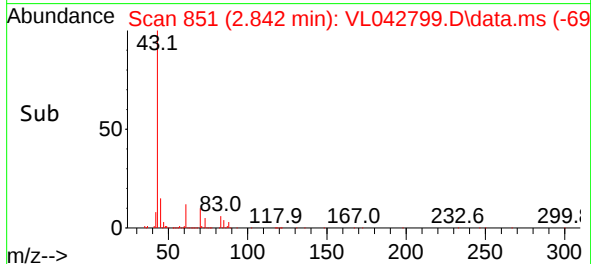
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2



Tgt Ion: 43 Resp: 264830
Ion Ratio Lower Upper
43 100
45 0.0 7.8 11.6
61 0.0 6.7 10.1
70 0.0 6.6 10.0

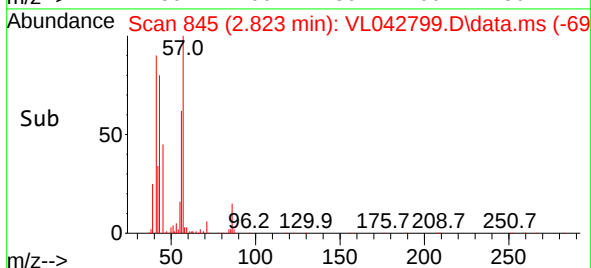
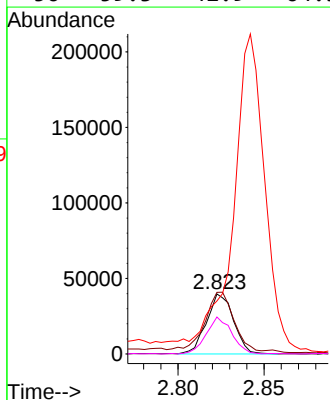
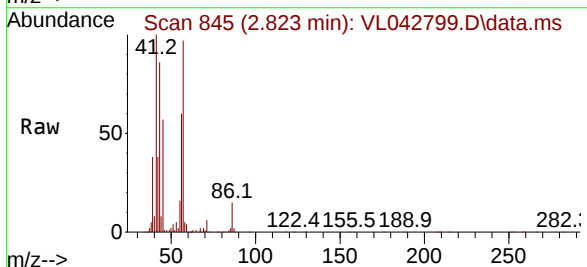
Manual Integrations
APPROVED

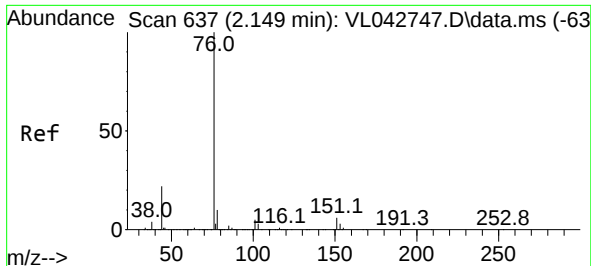
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025



#26
Hexane
Concen: 1.926 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 57 Resp: 43398
Ion Ratio Lower Upper
57 100
41 115.1 75.4 113.2#
43 680.3 185.0 277.6#
56 59.3 42.9 64.3





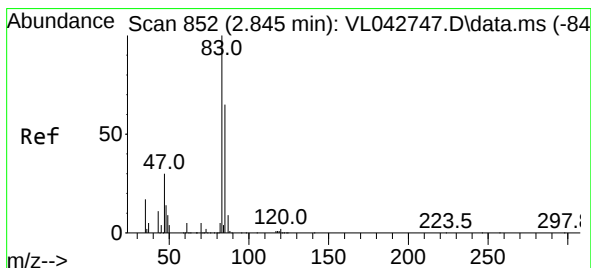
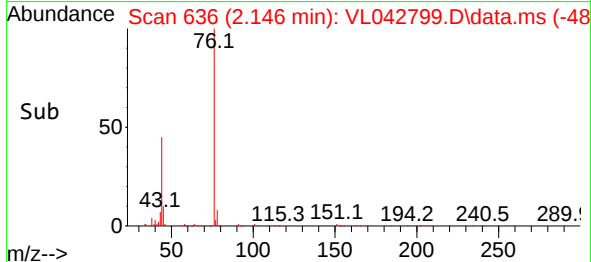
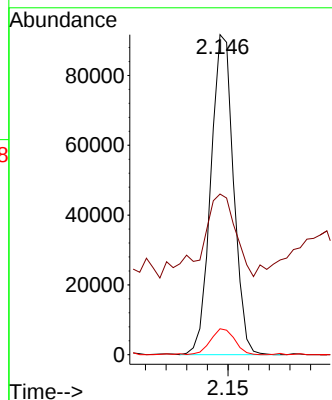
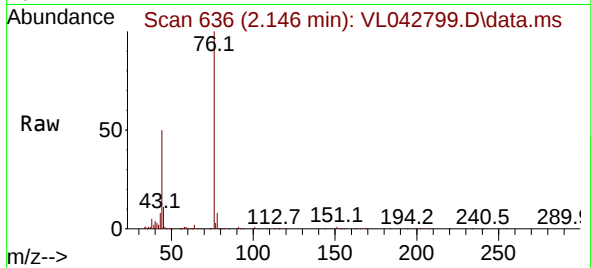
#27
Carbon Disulfide
Concen: 3.635 ppbv
RT: 2.146 min Scan# 611
Delta R.T. -0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Tgt Ion: 76 Resp: 70110
Ion Ratio Lower Upper
76 100
44 0.0 19.3 28.9
78 9.0 9.9 14.9

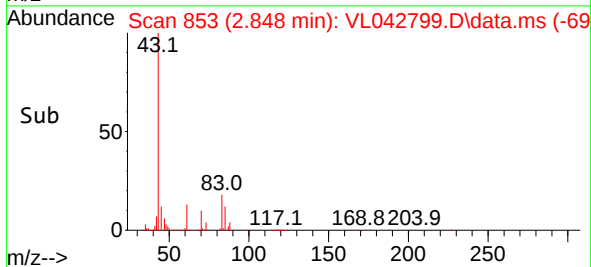
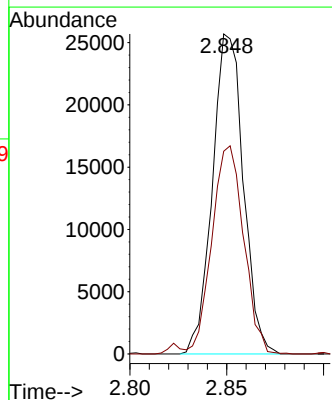
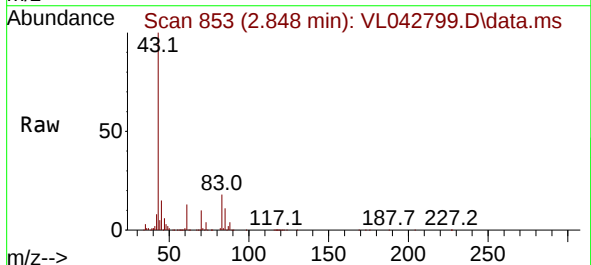
Manual Integrations
APPROVED

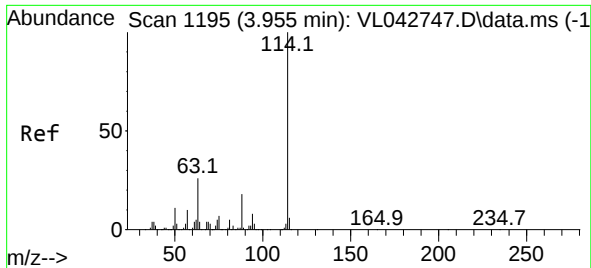
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025



#29
Chloroform
Concen: 0.819 ppbv
RT: 2.848 min Scan# 853
Delta R.T. 0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 83 Resp: 28519
Ion Ratio Lower Upper
83 100
85 63.1 52.2 78.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. 0.003 min

Lab File: VL042799.D

Acq: 04 Aug 2025 11:49

Instrument :

MSVOA_L

ClientSampleId :

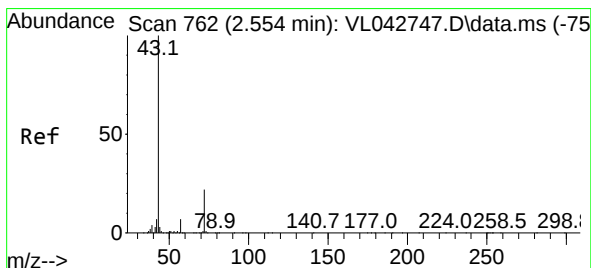
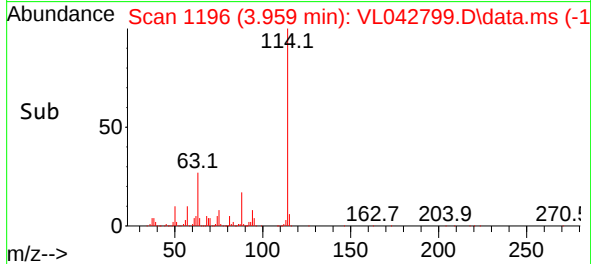
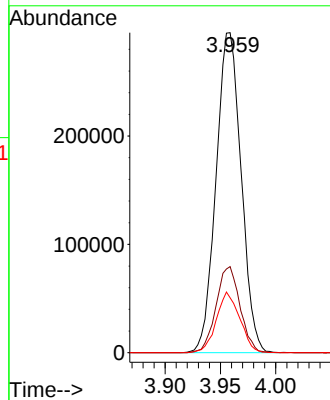
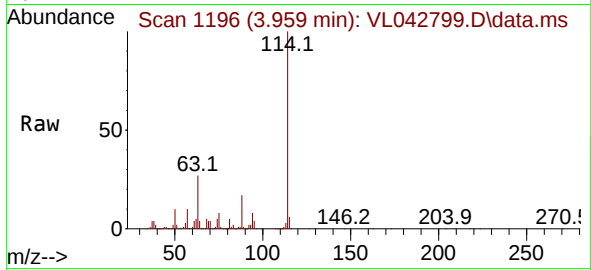
WONDER IA-2

Tgt Ion:114 Resp: 466299
 Ion Ratio Lower Upper
 114 100
 63 25.7 20.5 30.7
 88 17.7 14.0 21.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
 Supervised By :Mahesh Dadoda 08/05/2025



#34

2-Butanone

Concen: 1.929 ppbv

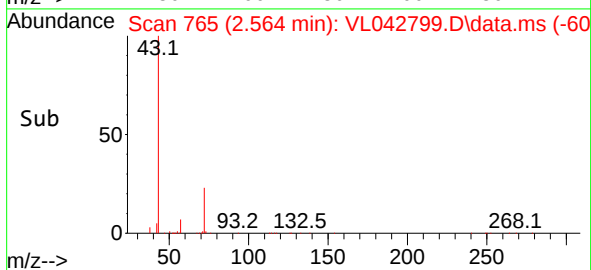
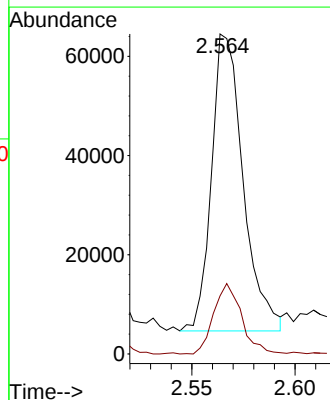
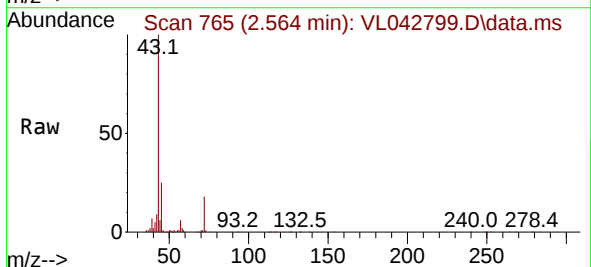
RT: 2.564 min Scan# 765

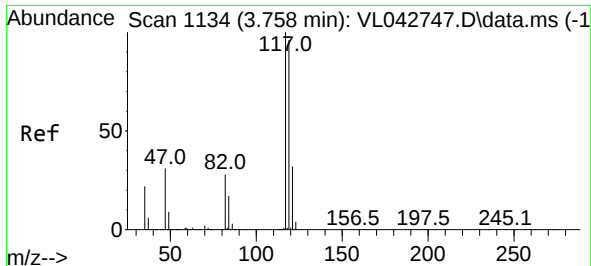
Delta R.T. 0.010 min

Lab File: VL042799.D

Acq: 04 Aug 2025 11:49

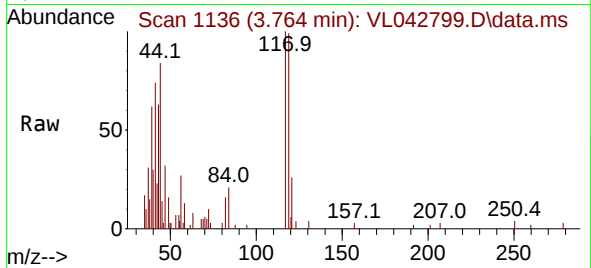
Tgt Ion: 43 Resp: 63731
 Ion Ratio Lower Upper
 43 100
 72 21.4 17.4 26.0





#35
Carbon Tetrachloride
Concen: 0.100 ppbv m
RT: 3.764 min Scan# 1134
Delta R.T. 0.006 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

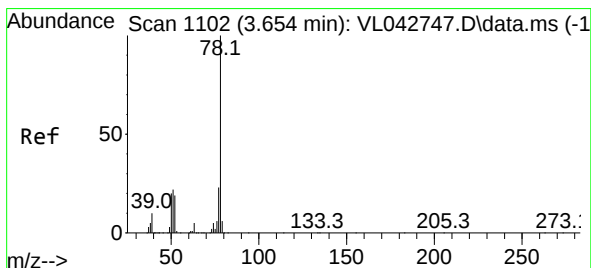
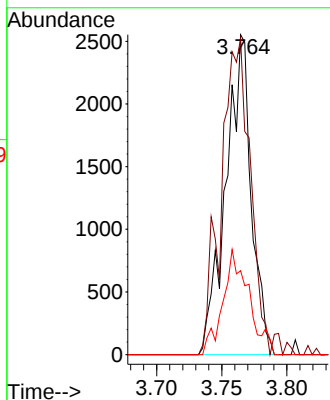
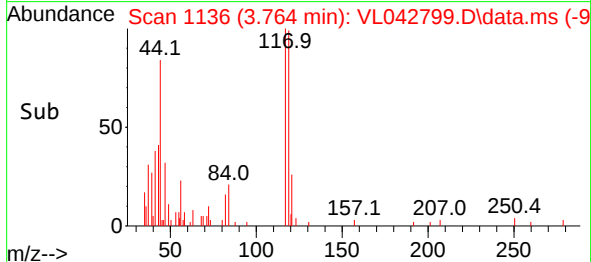
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2



Tgt Ion: 117 Resp: 3474
Ion Ratio Lower Upper
117 100
119 98.8 77.1 115.7
121 26.2 25.5 38.3

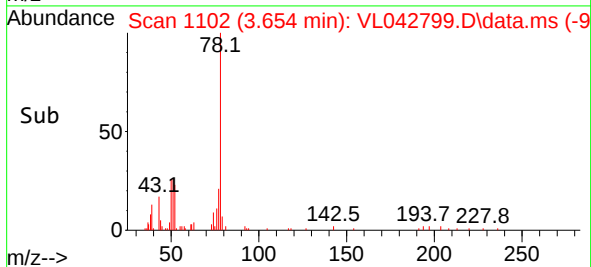
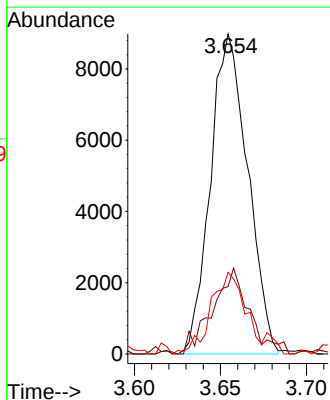
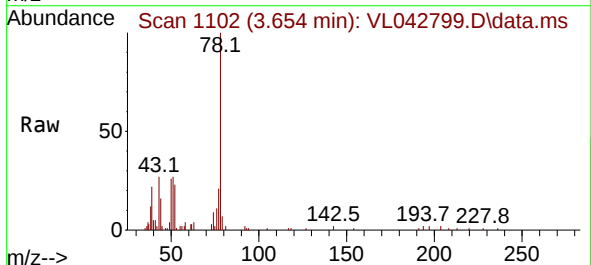
Manual Integrations
APPROVED

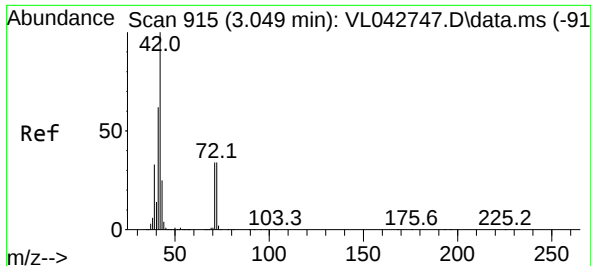
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025



#36
Benzene
Concen: 0.307 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

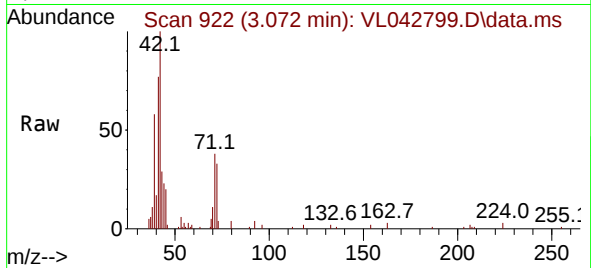
Tgt Ion: 78 Resp: 13550
Ion Ratio Lower Upper
78 100
77 21.3 18.5 27.7
50 22.6 16.2 24.2





#41
Tetrahydrofuran
Concen: 0.555 ppbv m
RT: 3.072 min Scan# 915
Delta R.T. 0.023 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

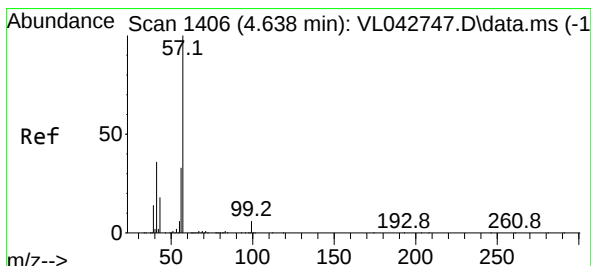
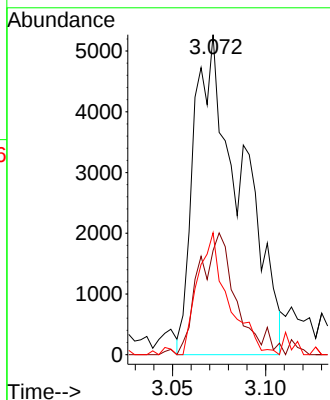
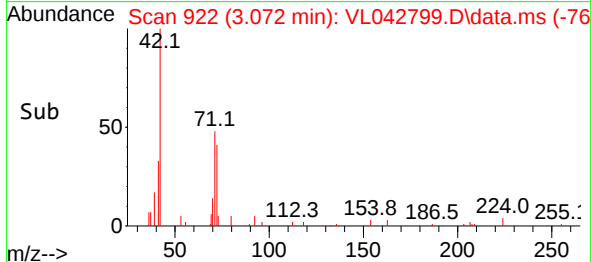
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2



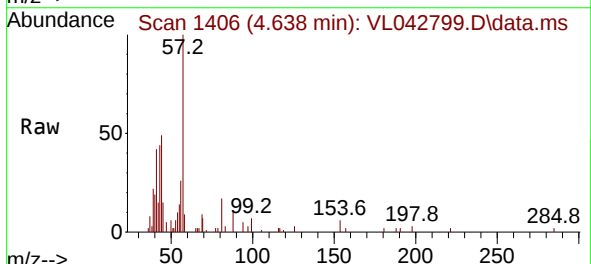
Tgt Ion: 42 Resp: 933
Ion Ratio Lower Upper
42 100
72 0.0 30.9 46.3
71 0.0 28.6 43.0

Manual Integrations
APPROVED

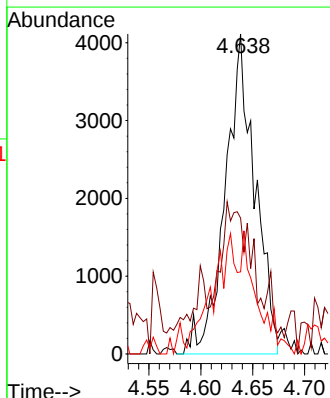
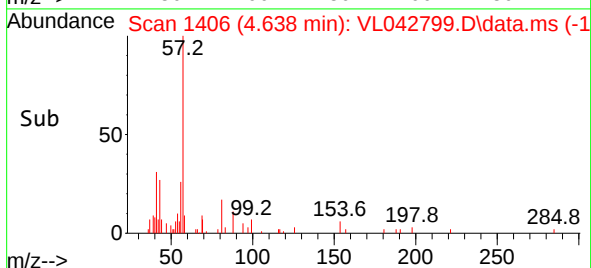
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

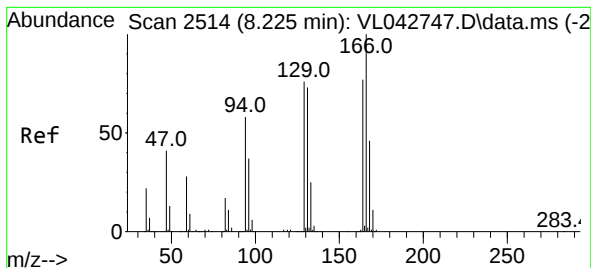


#44
2,2,4-Trimethylpentane
Concen: 0.113 ppbv m
RT: 4.638 min Scan# 1406
Delta R.T. -0.000 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49



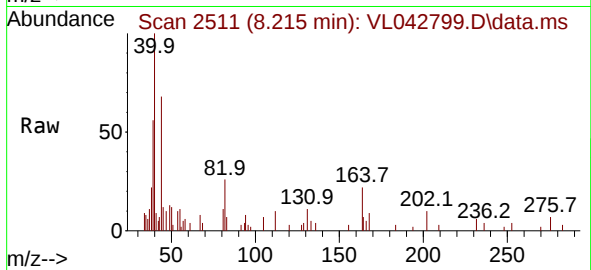
Tgt Ion: 57 Resp: 8131
Ion Ratio Lower Upper
57 100
41 0.0 28.3 42.5#
56 56.1 25.8 38.6#





#52
Tetrachloroethene
Concen: 0.044 ppbv m
RT: 8.215 min Scan# 2115
Delta R.T. -0.010 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

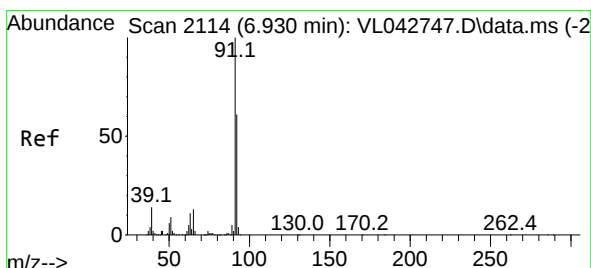
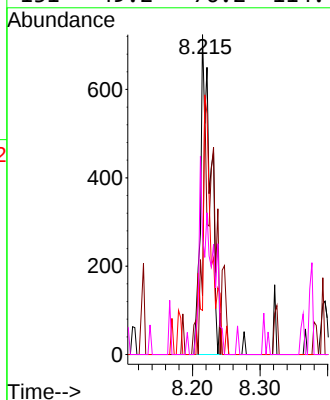
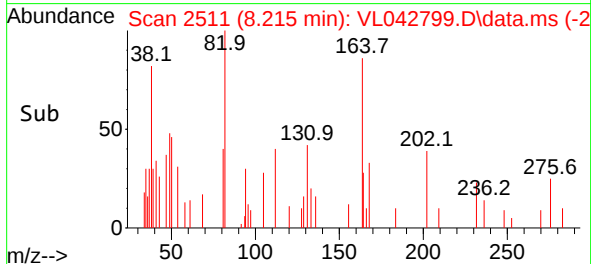
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2



Tgt Ion:164 Resp: 799
Ion Ratio Lower Upper
164 100
166 24.4 104.0 156.0
129 18.3 79.2 118.8
131 49.2 76.2 114.4

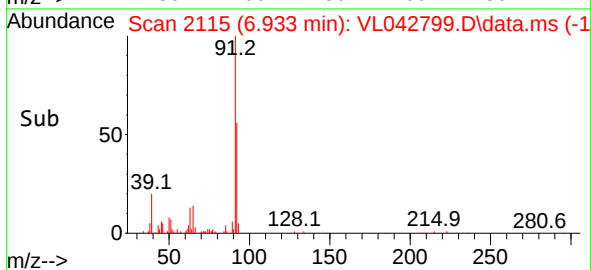
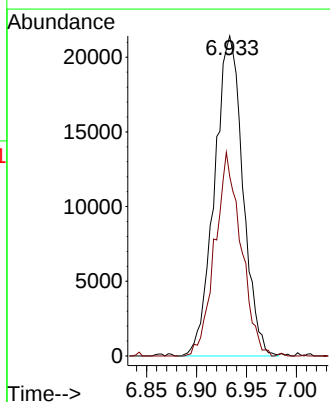
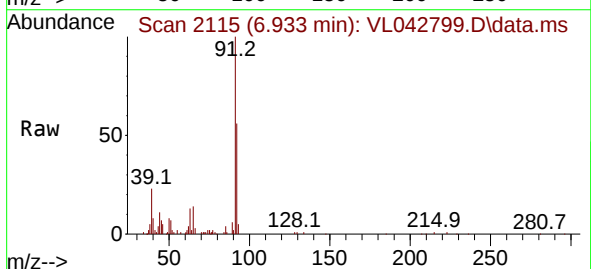
Manual Integrations
APPROVED

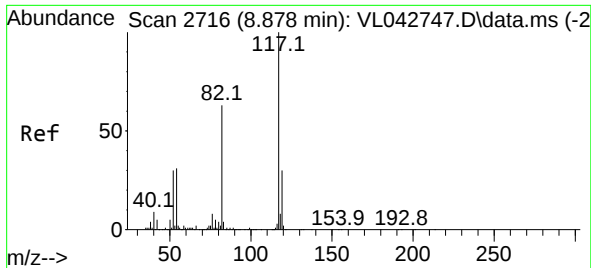
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025



#53
Toluene
Concen: 0.893 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

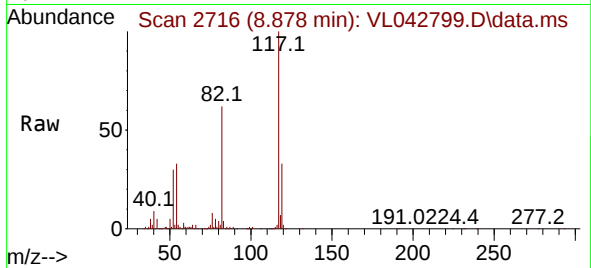
Tgt Ion: 91 Resp: 42388
Ion Ratio Lower Upper
91 100
92 58.8 48.0 72.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2117
Delta R.T. -0.000 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

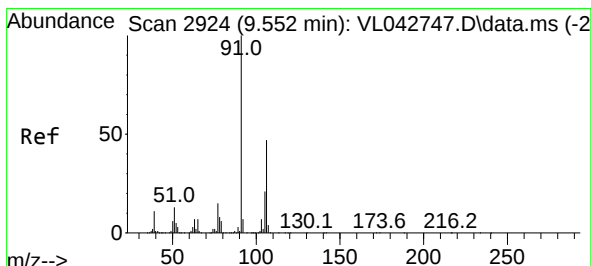
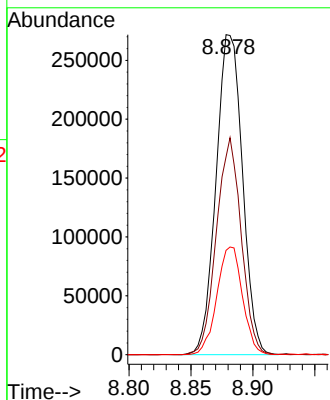
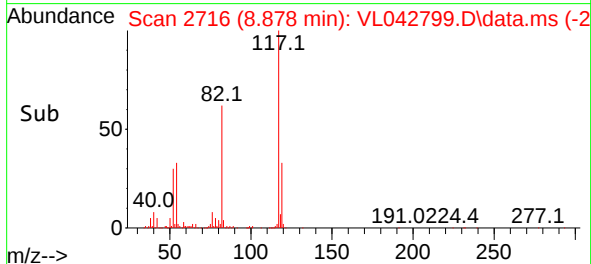
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2



Tgt Ion:117 Resp: 40514
Ion Ratio Lower Upper
117 100
82 63.6 53.3 79.9
119 32.7 25.8 38.6

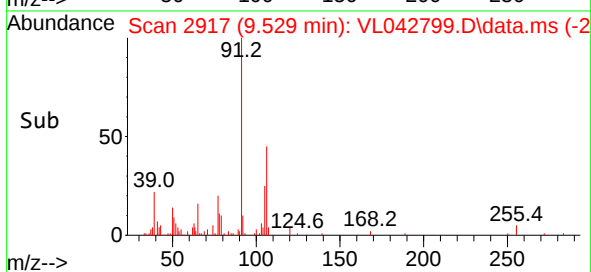
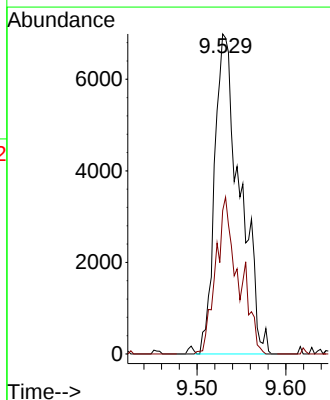
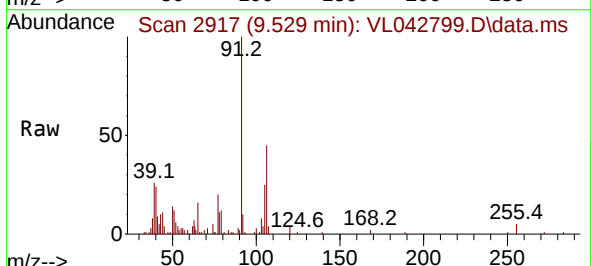
Manual Integrations
APPROVED

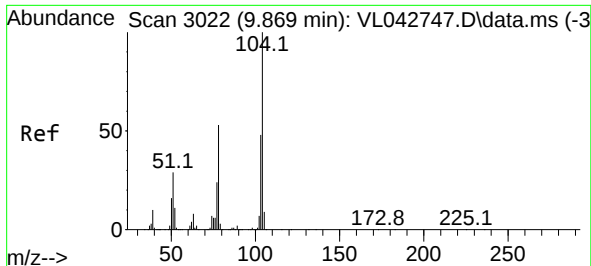
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025



#59
m/p-Xylene
Concen: 0.272 ppbv m
RT: 9.529 min Scan# 2917
Delta R.T. -0.023 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 91 Resp: 13930
Ion Ratio Lower Upper
91 100
106 0.0 37.4 56.2#





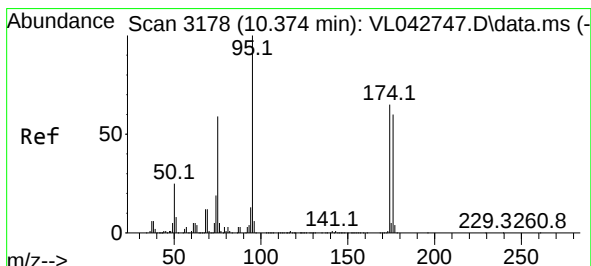
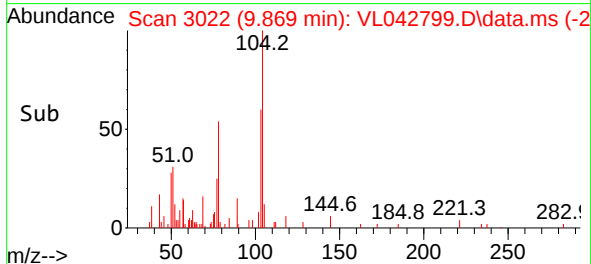
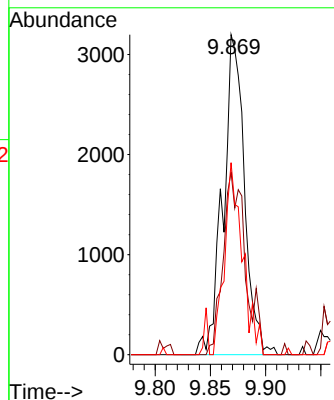
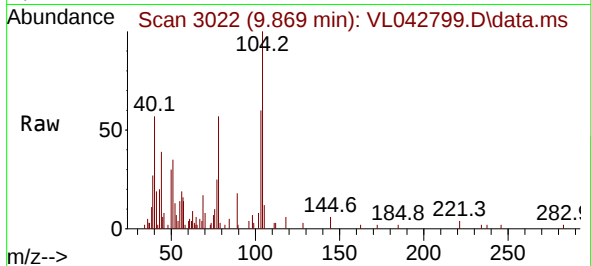
#61
Styrene
Concen: 0.200 ppbv m
RT: 9.869 min Scan# 3022
Delta R.T. -0.000 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

Tgt Ion:104 Resp: 430
Ion Ratio Lower Upper
104 100
78 59.4 41.5 62.3
103 53.3 37.5 56.3

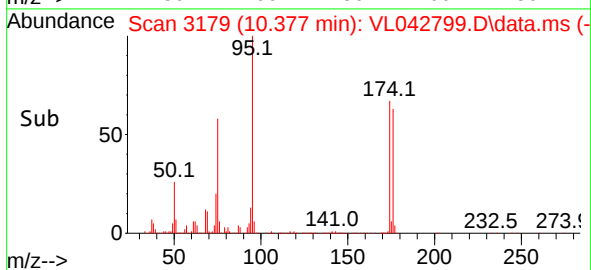
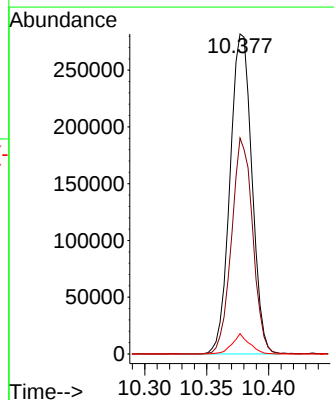
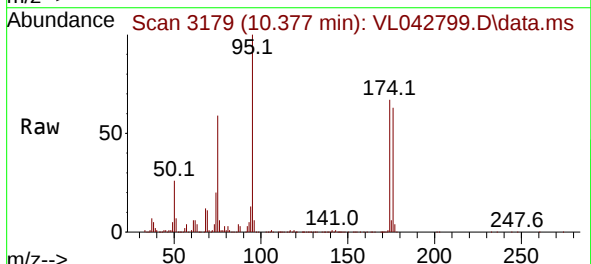
Manual Integrations
APPROVED

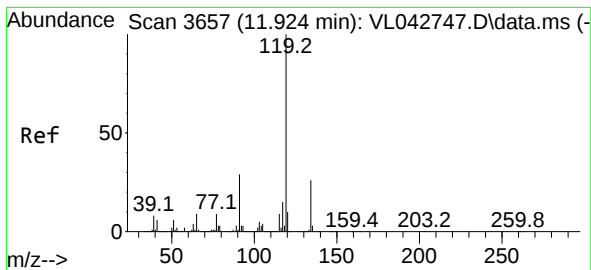
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.794 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

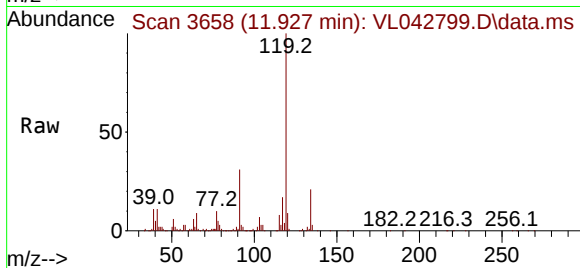
Tgt Ion: 95 Resp: 346336
Ion Ratio Lower Upper
95 100
174 65.4 53.8 80.6
175 5.0 4.0 6.0





#69
p-Isopropyltoluene
Concen: 0.697 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

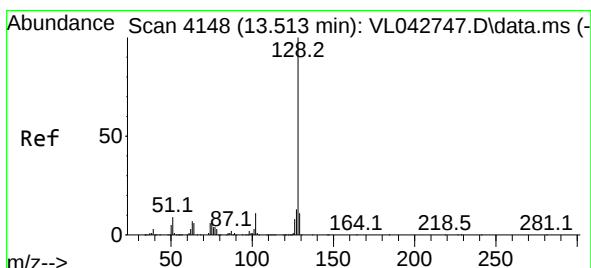
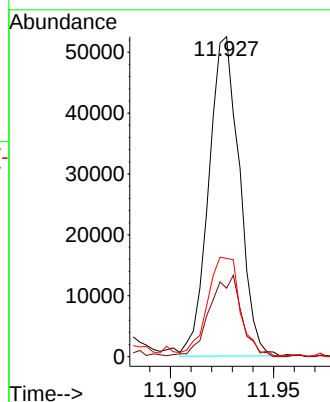
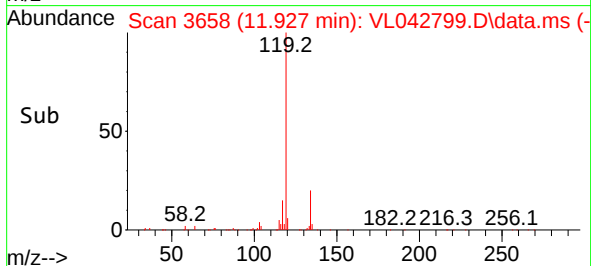
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2



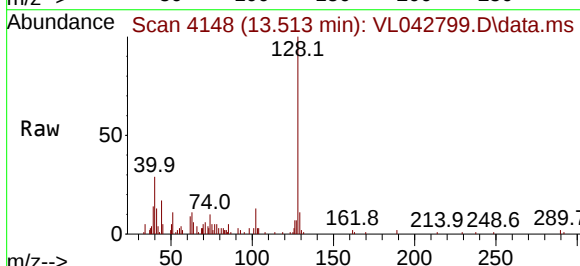
Tgt Ion:119 Resp: 54078
Ion Ratio Lower Upper
119 100
134 27.0 20.6 31.0
91 35.3 23.2 34.8

Manual Integrations
APPROVED

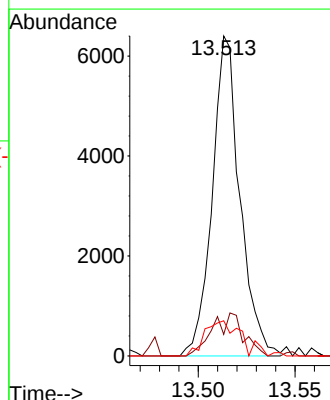
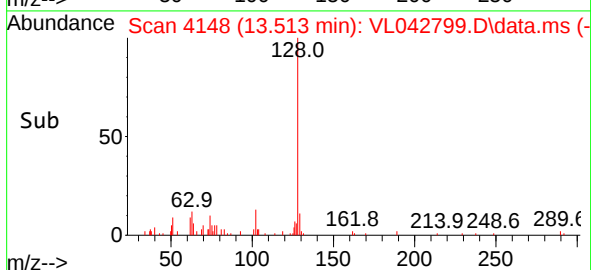
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

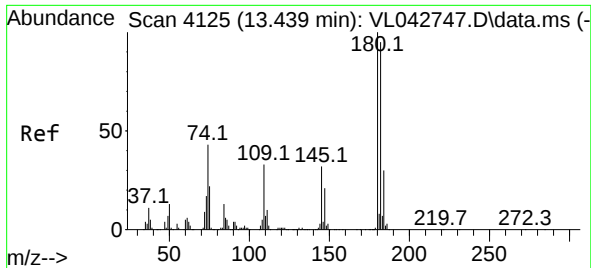


#79
Naphthalene
Concen: 0.537 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. -0.000 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49



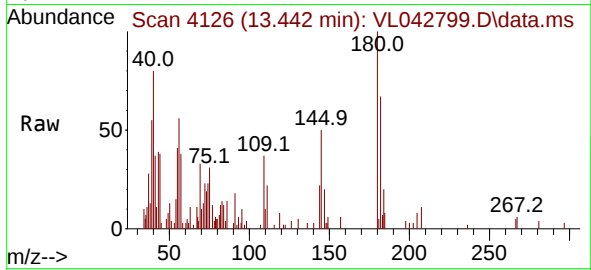
Tgt Ion:128 Resp: 6363
Ion Ratio Lower Upper
128 100
127 6.8 10.5 15.7#
129 11.0 8.6 13.0





#81
 1,2,4-Trichlorobenzene
 Concen: 0.506 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042799.D
 Acq: 04 Aug 2025 11:49

Instrument :
 MSVOA_L
 ClientSampleId :
 WONDER IA-2



Tgt Ion	Ratio	Lower	Upper
180	100		
182	104.7	76.2	114.2
184	37.6	24.8	37.2

Manual Integrations
 APPROVED

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