

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
 Data File : VL042808.D
 Acq On : 04 Aug 2025 16:51
 Operator : SY/MD
 Sample : Q2750-09
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 WONDER IA-10

Manual Integrations
 APPROVED

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

Quant Time: Aug 05 01:09:05 2025

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri 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	2.784	49	152020	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	420636	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	367596	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	293841	10.094	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.900%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	10303	0.513	ppbv	99
3) Chlorodifluoromethane	1.473	51	210688	8.047	ppbv	98
4) Chloromethane	1.531	50	7293	0.897	ppbv	99
9) Propene	1.486	41	663769m	69.753	ppbv	
10) Heptane	4.985	43	6628m	0.258	ppbv	
11) Trichlorofluoromethane	1.877	101	5149	0.249	ppbv	93
13) Ethanol	1.722	45	712063	1026.518	ppbv	90
15) Acetone	1.832	43	309064	14.723	ppbv	95
19) Isopropyl Alcohol	1.887	45	2902165	260.163	ppbv #	39
20) Methylene Chloride	2.059	84	8310	1.256	ppbv	96
26) Hexane	2.826	57	42822	2.101	ppbv #	48
29) Chloroform	2.852	83	3352m	0.106	ppbv	
34) 2-Butanone	2.554	43	38827	1.303	ppbv	98
35) Carbon Tetrachloride	3.761	117	2615m	0.084	ppbv	
36) Benzene	3.658	78	12707	0.319	ppbv	98
41) Tetrahydrofuran	3.062	42	2451m	0.162	ppbv	
44) 2,2,4-Trimethylpentane	4.645	57	6498m	0.100	ppbv	
53) Toluene	6.933	91	13897	0.325	ppbv	99
59) m/p-Xylene	9.529	91	6348m	0.137	ppbv	
69) p-Isopropyltoluene	11.924	119	20163	0.286	ppbv	96
74) 1,2,4-Trimethylbenzene	11.532	105	5708	0.115	ppbv #	63
79) Naphthalene	13.513	128	1257	0.457	ppbv #	88

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

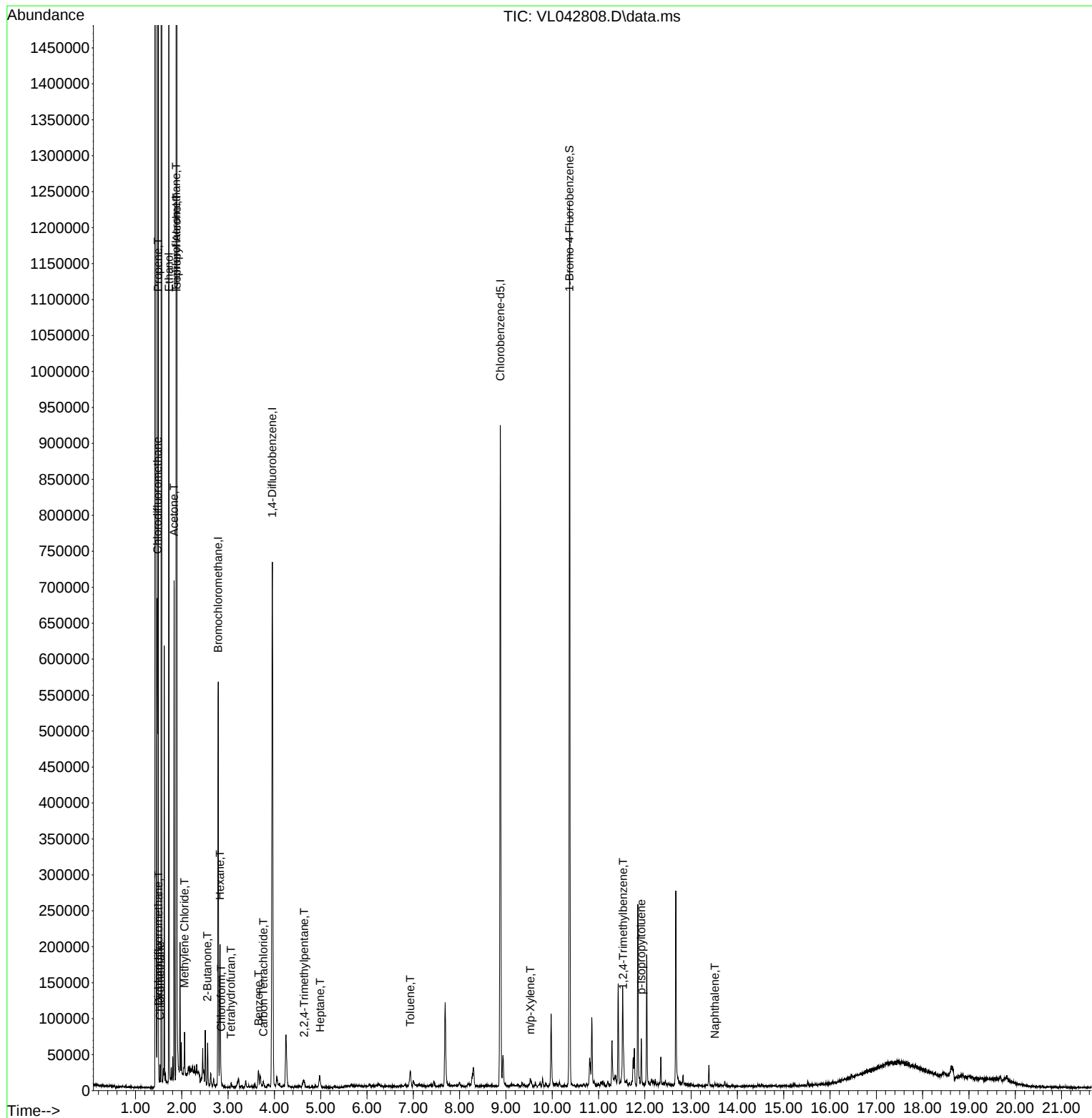
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
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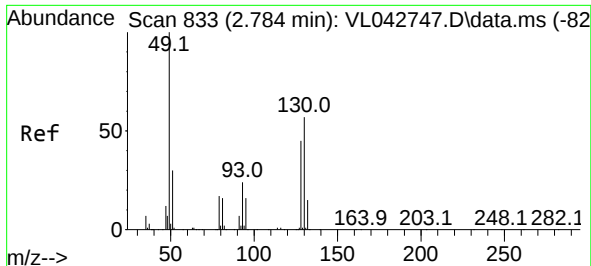
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WONDER IA-10

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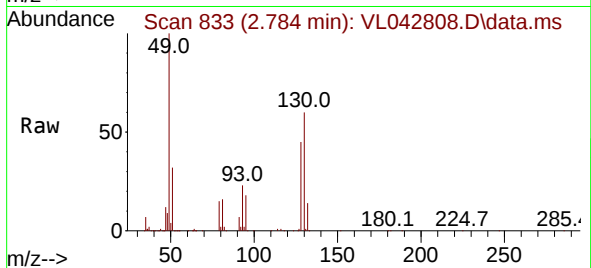
Quant Time: Aug 05 01:09:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 811
Delta R.T. -0.000 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

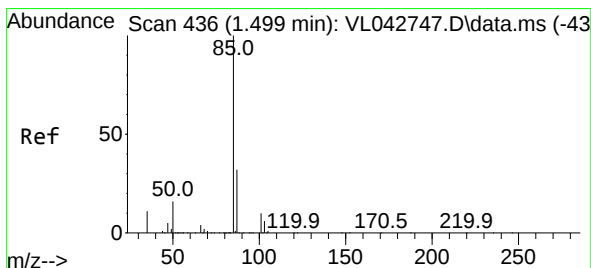
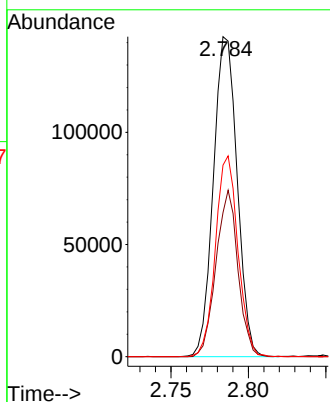
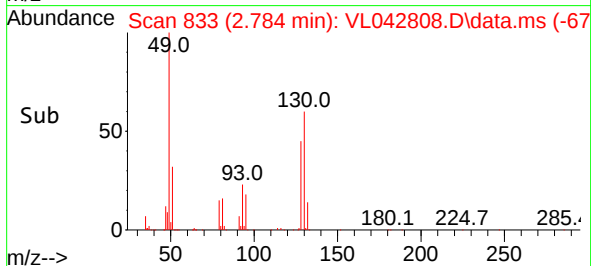
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10



Tgt Ion: 49 Resp: 152020
Ion Ratio Lower Upper
49 100
128 48.0 23.6 71.0
130 59.4 30.3 90.8

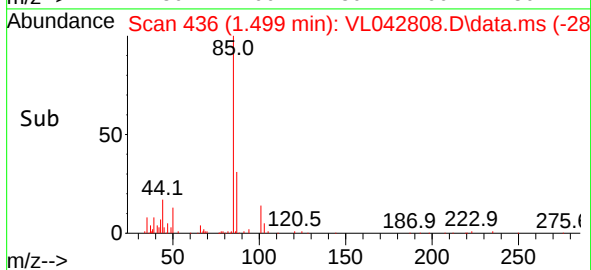
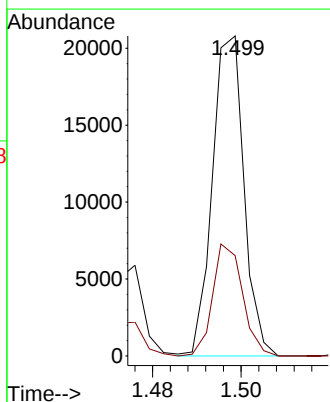
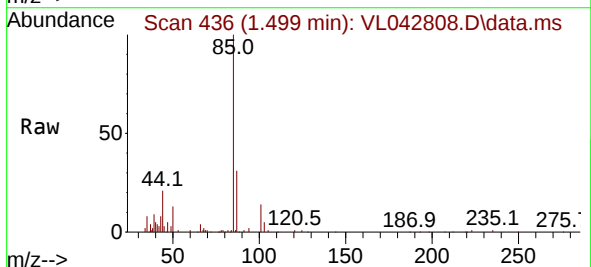
Manual Integrations
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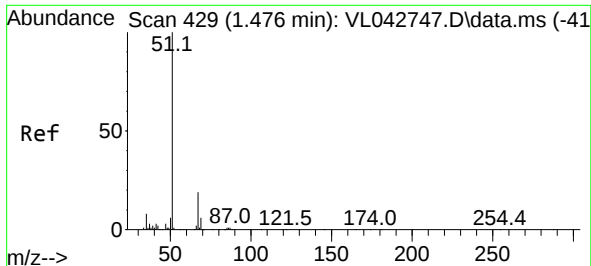
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025



#2
Dichlorodifluoromethane
Concen: 0.513 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

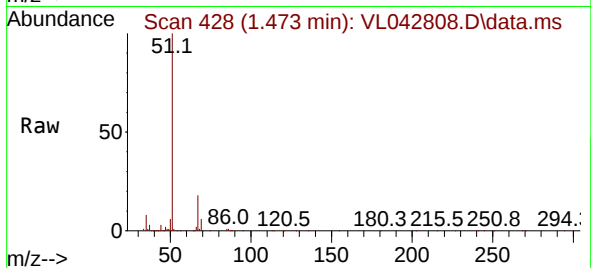
Tgt Ion: 85 Resp: 10303
Ion Ratio Lower Upper
85 100
87 31.3 25.4 38.2





#3
Chlorodifluoromethane
Concen: 8.047 ppbv
RT: 1.473 min Scan# 429
Delta R.T. -0.003 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

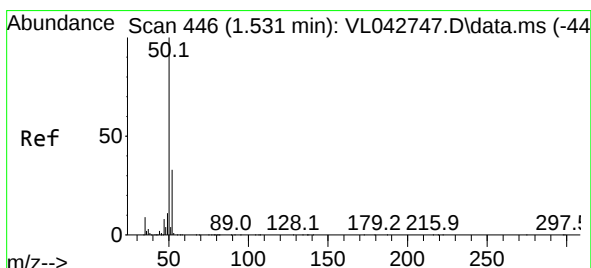
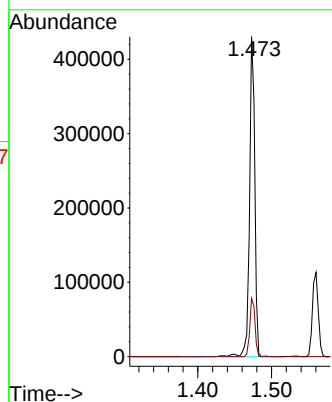
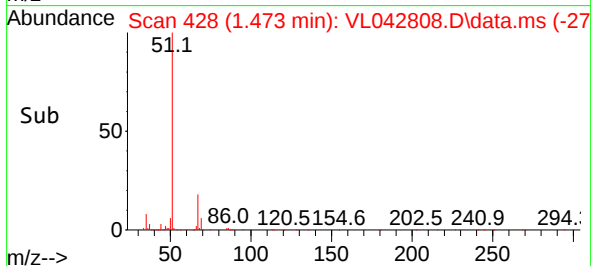
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10



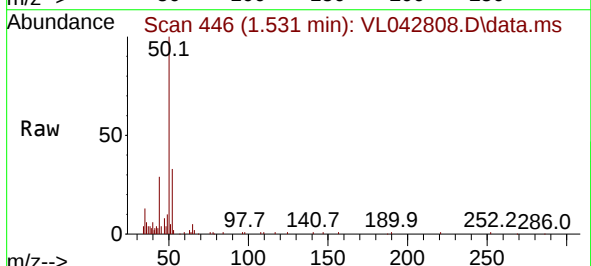
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Ion Ratio Lower Upper
51 100
67 18.0 15.0 22.6

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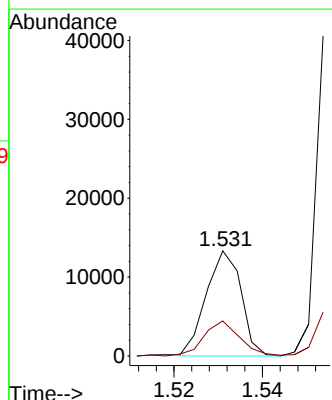
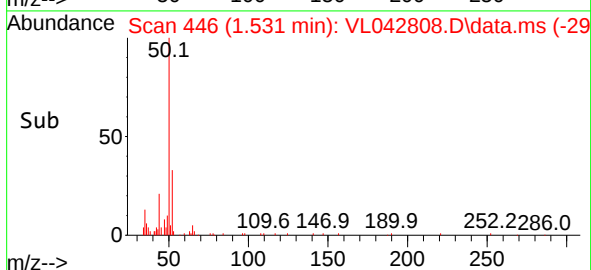
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

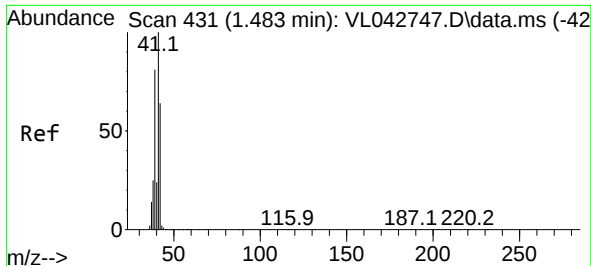


#4
Chloromethane
Concen: 0.897 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51



Tgt Ion: 50 Resp: 7293
Ion Ratio Lower Upper
50 100
52 32.6 26.6 40.0





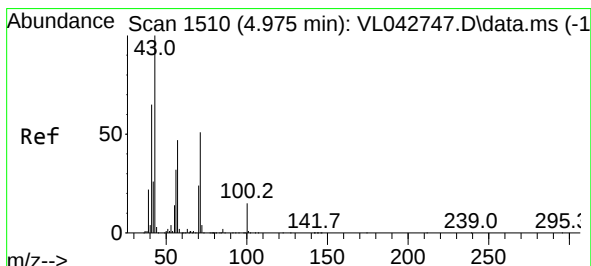
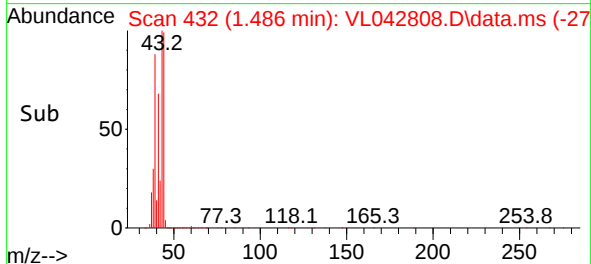
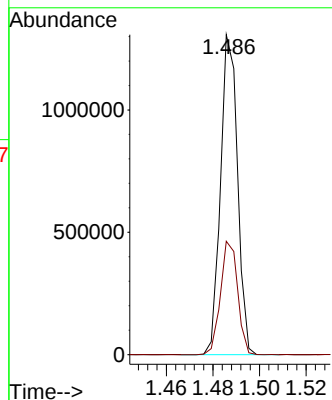
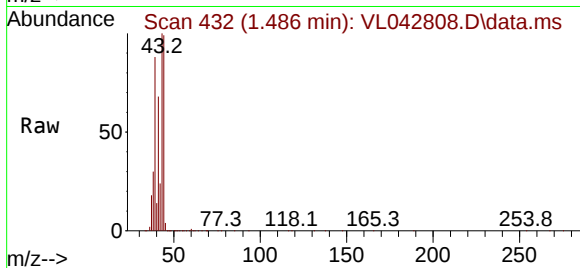
#9
 Propene
 Concen: 69.753 ppbv m
 RT: 1.486 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042808.D
 Acq: 04 Aug 2025 16:51

Instrument :
 MSVOA_L
 ClientSampleId :
 WONDER IA-10

Tgt Ion: 41 Resp: 663769
 Ion Ratio Lower Upper
 41 100
 42 44.2 53.2 79.8

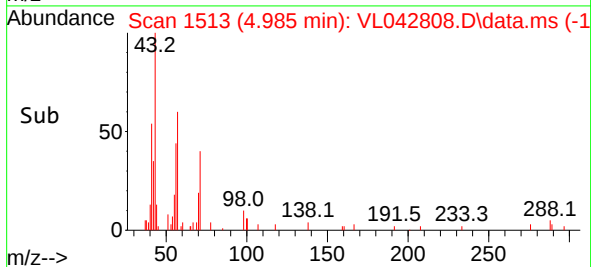
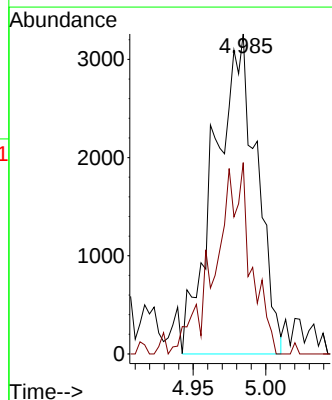
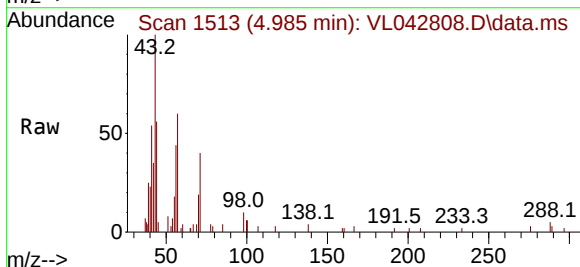
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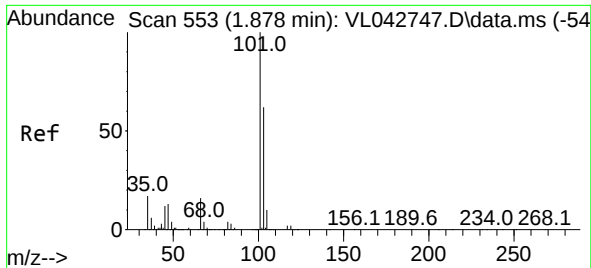
Reviewed By :Semsettin Yesilyurt 08/05/2025
 Supervised By :Mahesh Dadoda 08/05/2025



#10
 Heptane
 Concen: 0.258 ppbv m
 RT: 4.985 min Scan# 1513
 Delta R.T. 0.010 min
 Lab File: VL042808.D
 Acq: 04 Aug 2025 16:51

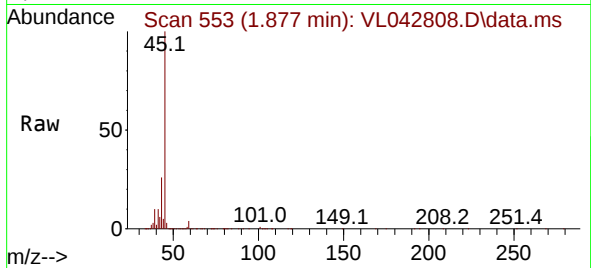
Tgt Ion: 43 Resp: 6628
 Ion Ratio Lower Upper
 43 100
 57 50.7 39.9 59.9





#11
Trichlorofluoromethane
Concen: 0.249 ppbv
RT: 1.877 min Scan# 5149
Delta R.T. -0.000 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

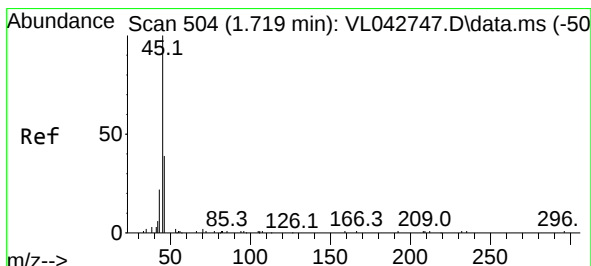
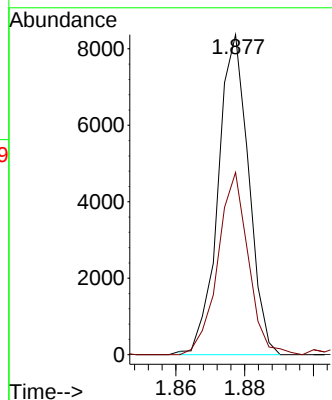
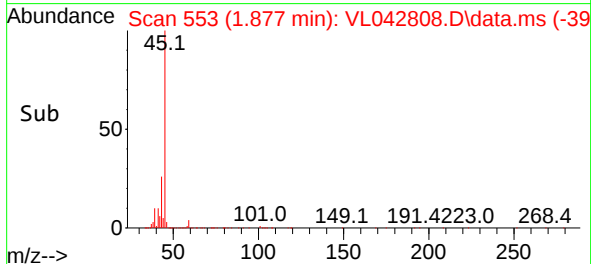
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10



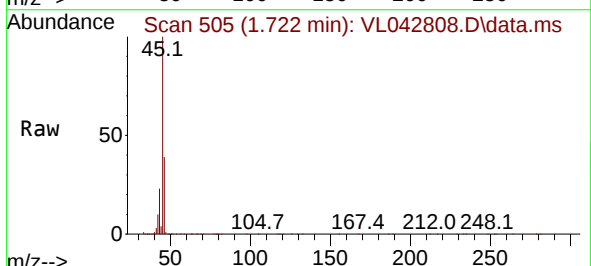
Tgt Ion:101 Resp: 5149
Ion Ratio Lower Upper
101 100
103 56.9 49.6 74.4

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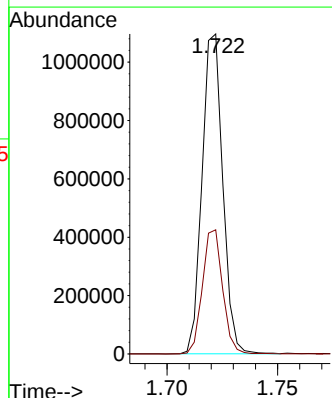
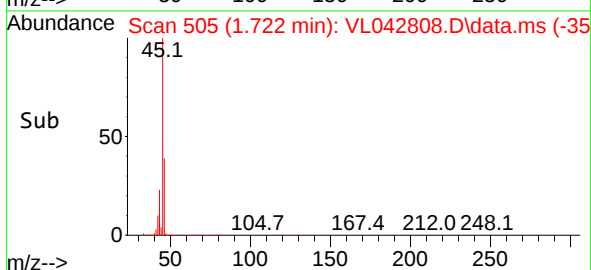
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

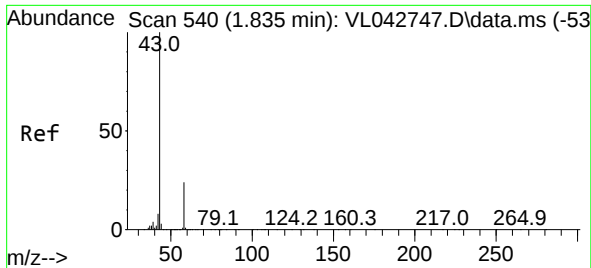


#13
Ethanol
Concen: 1026.518 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51



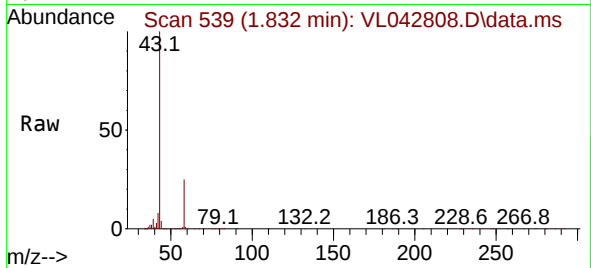
Tgt Ion: 45 Resp: 712063
Ion Ratio Lower Upper
45 100
46 38.1 17.8 71.4





#15
Acetone
Concen: 14.723 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

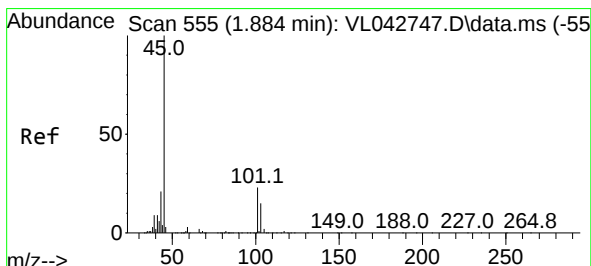
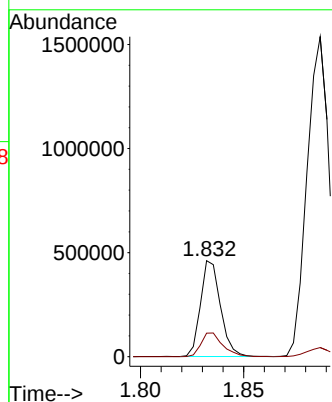
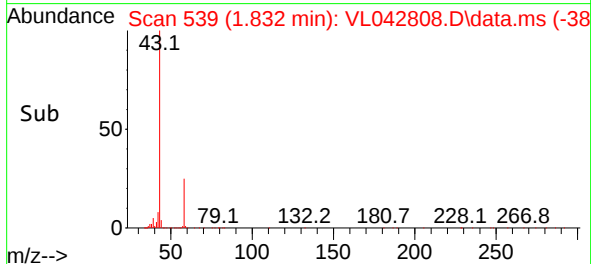
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10



Tgt Ion: 43 Resp: 309064
Ion Ratio Lower Upper
43 100
58 27.3 19.8 29.8

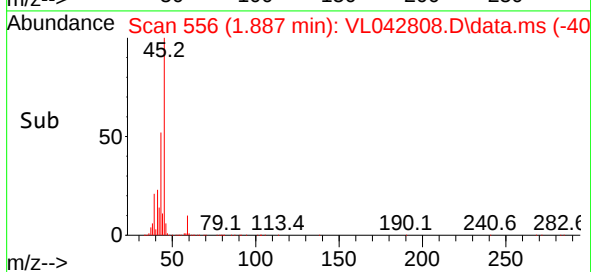
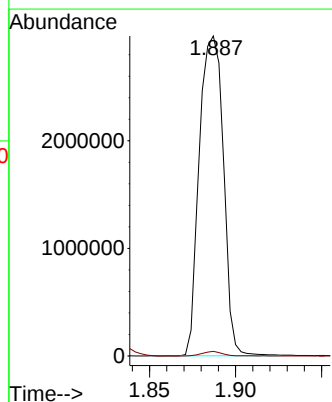
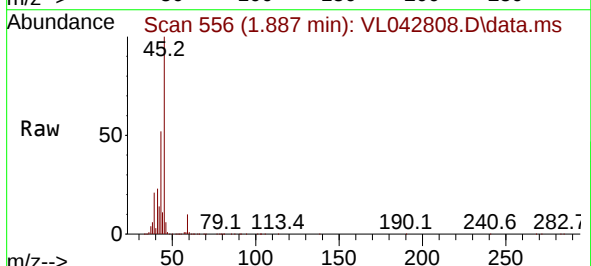
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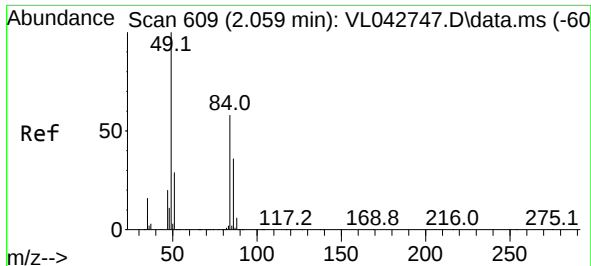
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025



#19
Isopropyl Alcohol
Concen: 260.163 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

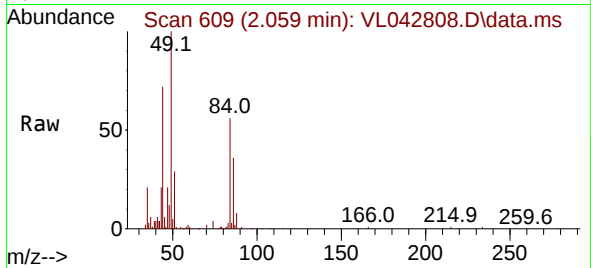
Tgt Ion: 45 Resp: 2902165
Ion Ratio Lower Upper
45 100
58 1.2 30.0 45.0#





#20
Methylene Chloride
Concen: 1.256 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

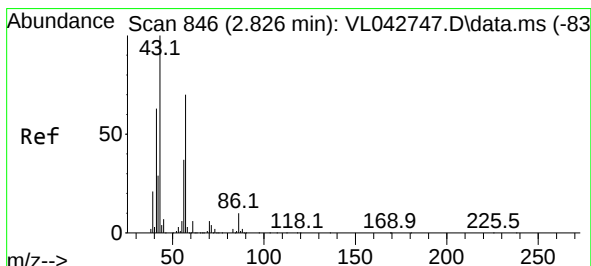
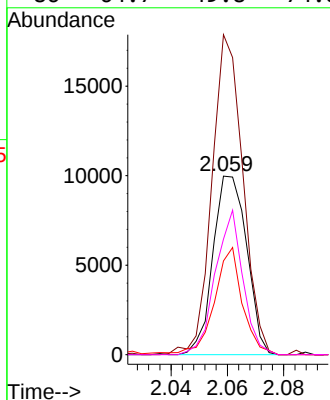
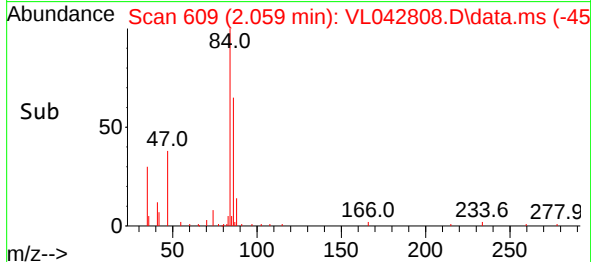
Instrument :
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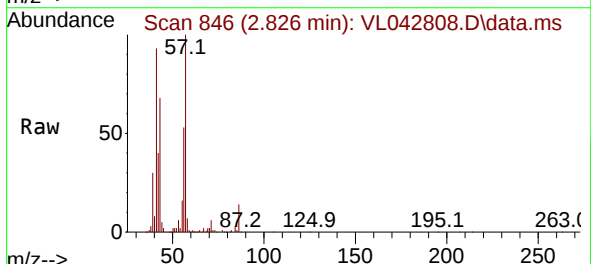
Tgt Ion: 84 Resp: 8310
Ion Ratio Lower Upper
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51 52.5 40.6 61.0
86 64.7 49.8 74.8

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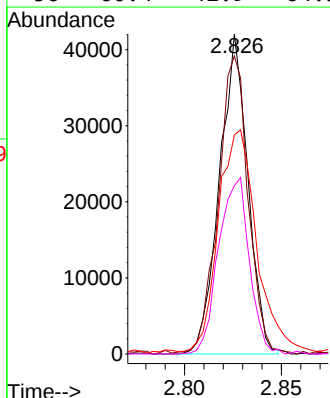
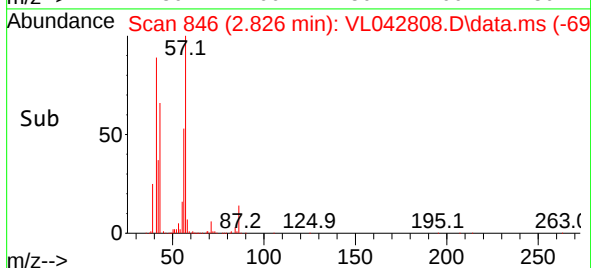
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

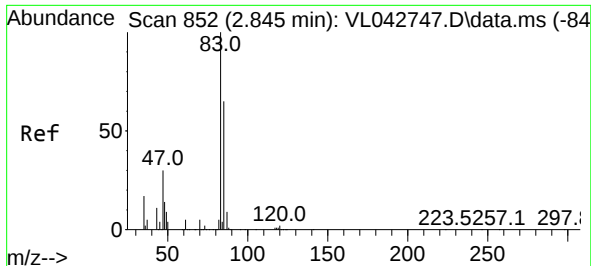


#26
Hexane
Concen: 2.101 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51



Tgt Ion: 57 Resp: 42822
Ion Ratio Lower Upper
57 100
41 100.2 75.4 113.2
43 96.8 185.0 277.6#
56 60.4 42.9 64.3





#29

Chloroform

Concen: 0.106 ppbv m

RT: 2.852 min Scan# 8

Delta R.T. 0.006 min

Lab File: VL042808.D

Acq: 04 Aug 2025 16:51

Instrument :

MSVOA_L

ClientSampleId :

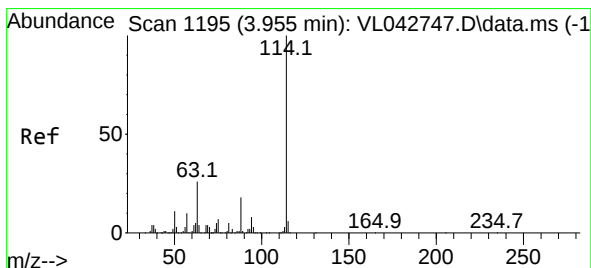
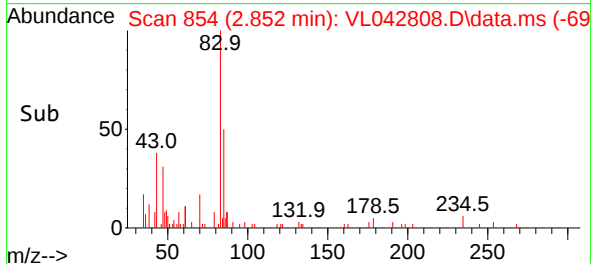
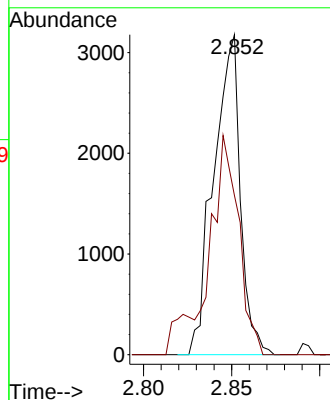
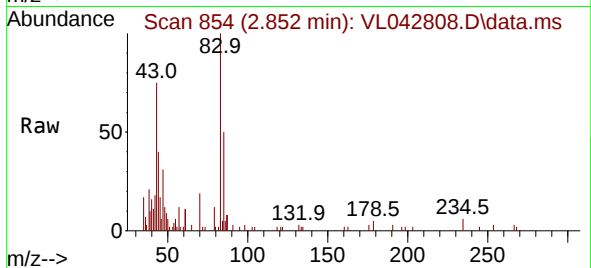
WONDER IA-10

Tgt Ion: 83 Resp: 3352
 Ion Ratio Lower Upper
 83 100
 85 49.7 52.2 78.2

Manual Integrations

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 Supervised By :Mahesh Dadoda 08/05/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

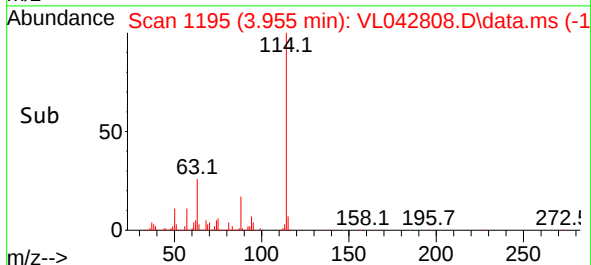
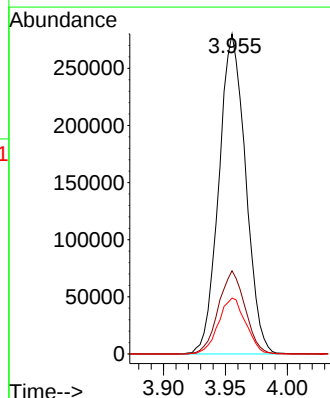
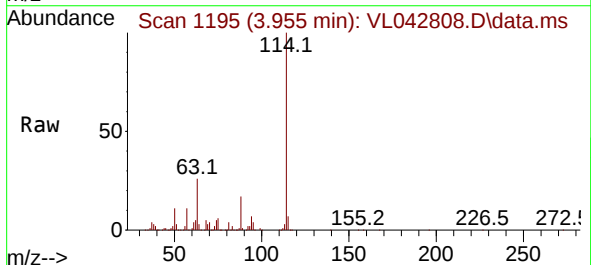
RT: 3.955 min Scan# 1195

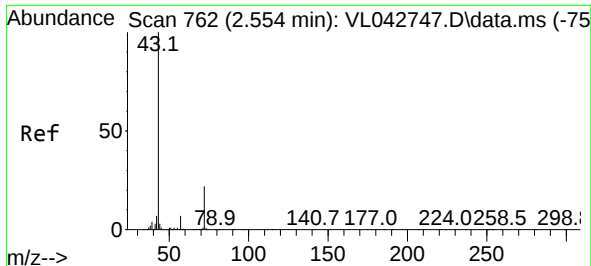
Delta R.T. -0.000 min

Lab File: VL042808.D

Acq: 04 Aug 2025 16:51

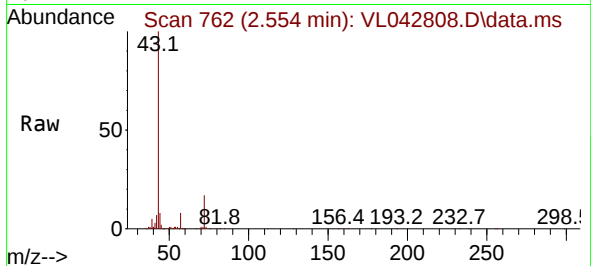
Tgt Ion:114 Resp: 420636
 Ion Ratio Lower Upper
 114 100
 63 25.9 20.5 30.7
 88 17.9 14.0 21.0





#34
2-Butanone
Concen: 1.303 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.000 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

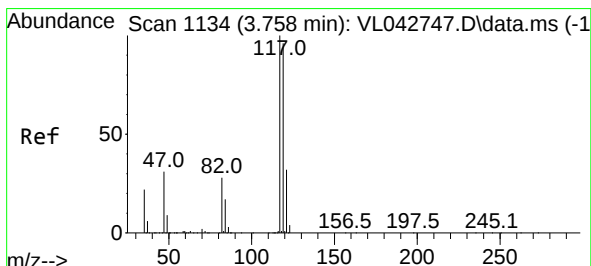
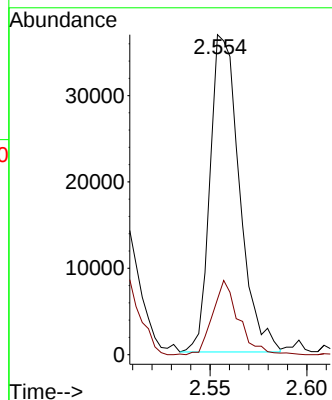
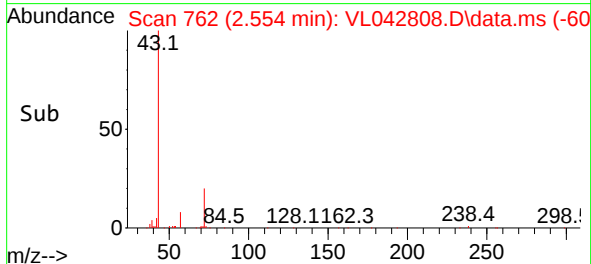
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10



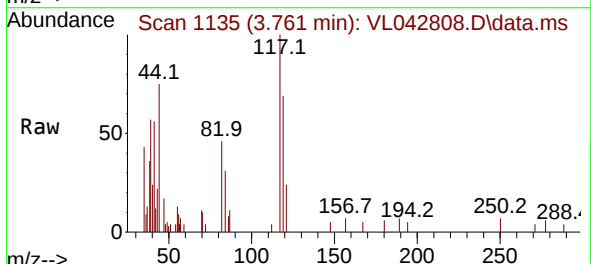
Tgt Ion: 43 Resp: 3882
Ion Ratio Lower Upper
43 100
72 21.0 17.4 26.0

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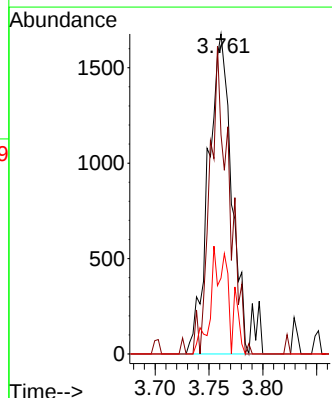
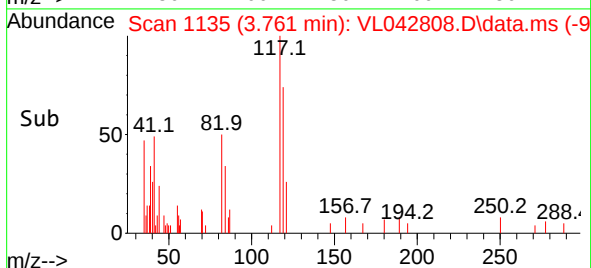
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

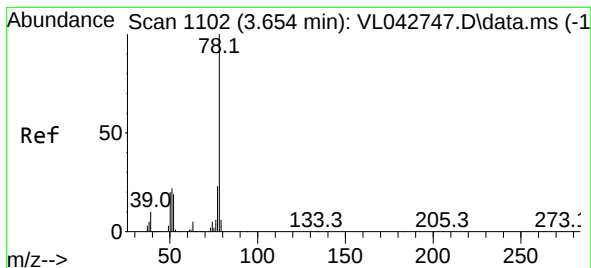


#35
Carbon Tetrachloride
Concen: 0.084 ppbv m
RT: 3.761 min Scan# 1135
Delta R.T. 0.003 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51



Tgt Ion:117 Resp: 2615
Ion Ratio Lower Upper
117 100
119 68.6 77.1 115.7#
121 23.7 25.5 38.3#





#36

Benzene

Concen: 0.319 ppbv

RT: 3.658 min Scan# 1103

Delta R.T. 0.003 min

Lab File: VL042808.D

Acq: 04 Aug 2025 16:51

Instrument :

MSVOA_L

ClientSampleId :

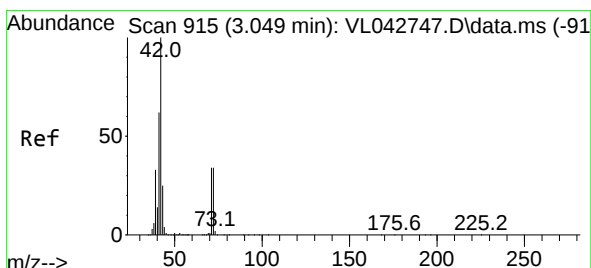
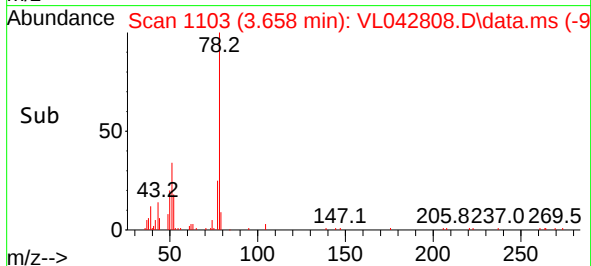
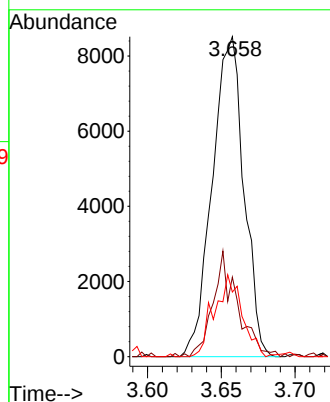
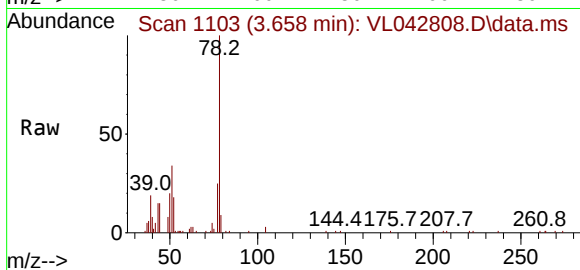
WONDER IA-10

Tgt Ion: 78	Resp: 1270
Ion Ratio	Lower Upper
78 100	
77 24.9	18.5 27.7
50 20.2	16.2 24.2

Manual Integrations

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



#41

Tetrahydrofuran

Concen: 0.162 ppbv m

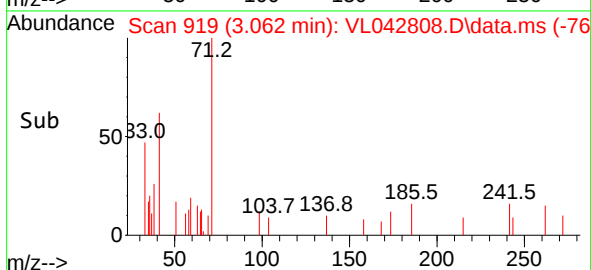
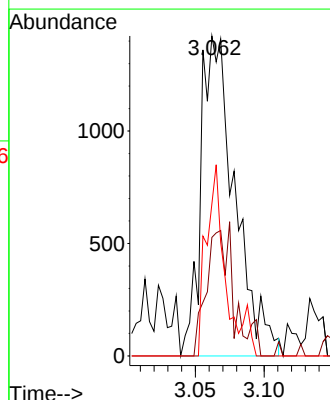
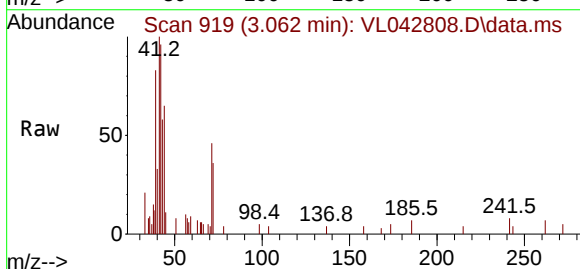
RT: 3.062 min Scan# 919

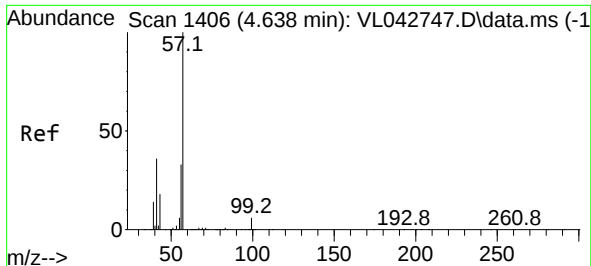
Delta R.T. 0.013 min

Lab File: VL042808.D

Acq: 04 Aug 2025 16:51

Tgt Ion: 42	Resp: 2451
Ion Ratio	Lower Upper
42 100	
72 0.0	30.9 46.3#
71 0.0	28.6 43.0#





#44

2,2,4-Trimethylpentane

Concen: 0.100 ppbv m

RT: 4.645 min Scan# 1406

Delta R.T. 0.006 min

Lab File: VL042808.D

Acq: 04 Aug 2025 16:51

Instrument :

MSVOA_L

ClientSampleId :

WONDER IA-10

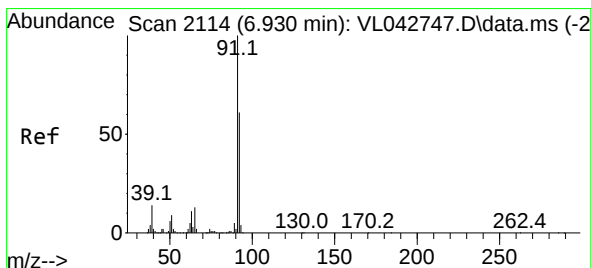
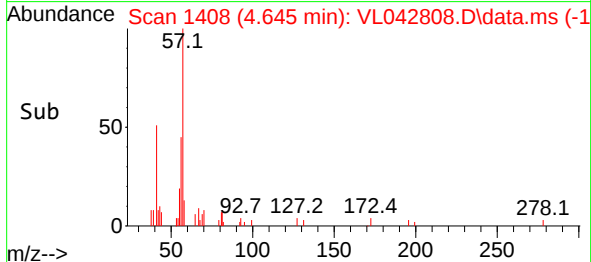
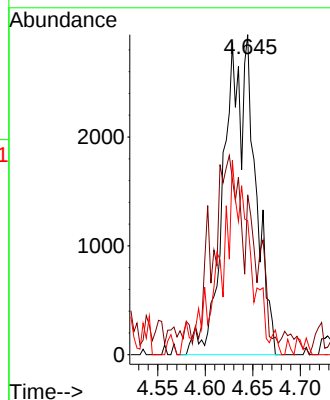
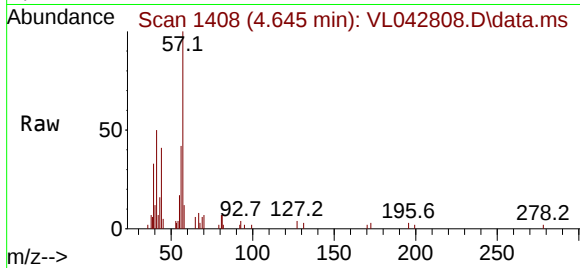
Tgt Ion: 57	Resp: 6498
Ion Ratio	Lower Upper
57	100
41	0.0 28.3 42.5
56	0.0 25.8 38.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/05/2025

Supervised By :Mahesh Dadoda 08/05/2025



#53

Toluene

Concen: 0.325 ppbv

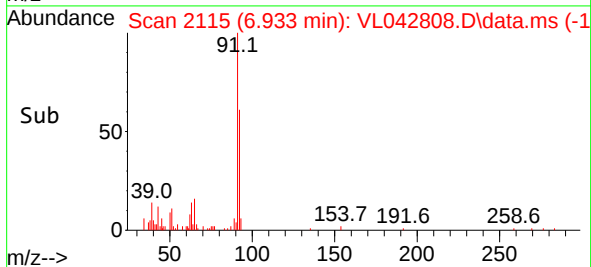
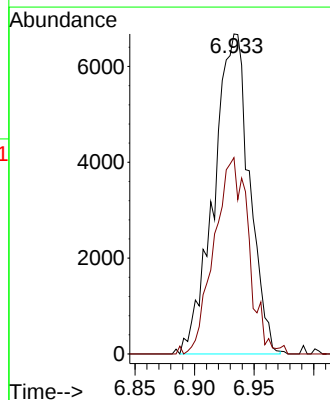
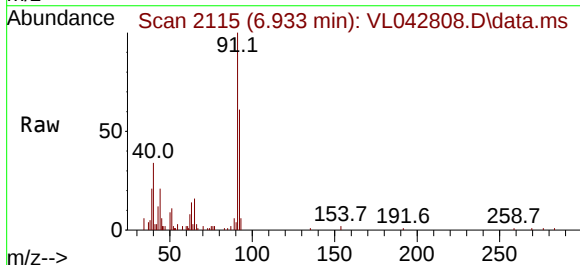
RT: 6.933 min Scan# 2115

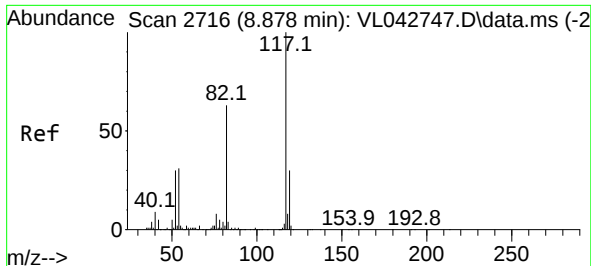
Delta R.T. 0.003 min

Lab File: VL042808.D

Acq: 04 Aug 2025 16:51

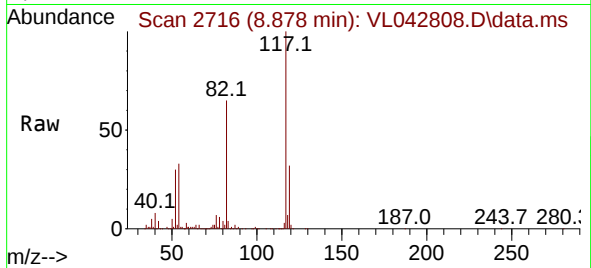
Tgt Ion: 91	Resp: 13897
Ion Ratio	Lower Upper
91	100
92	59.5 48.0 72.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2117
Delta R.T. -0.000 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

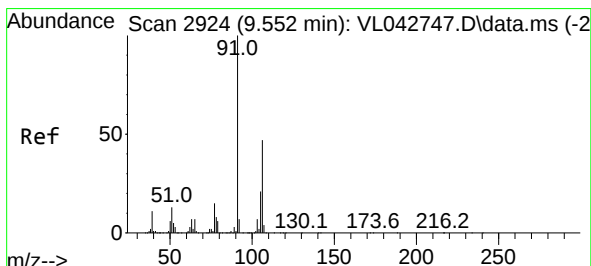
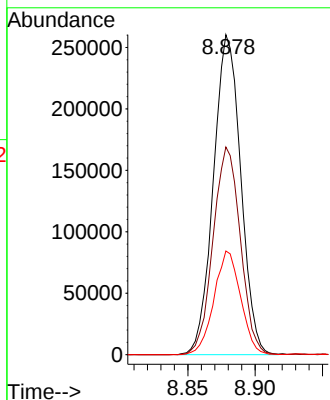
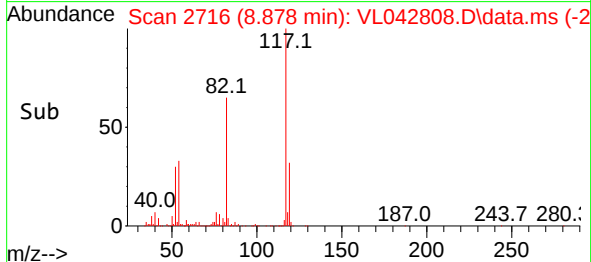
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10



Tgt Ion:117 Resp: 367590
Ion Ratio Lower Upper
117 100
82 64.9 53.3 79.9
119 31.6 25.8 38.6

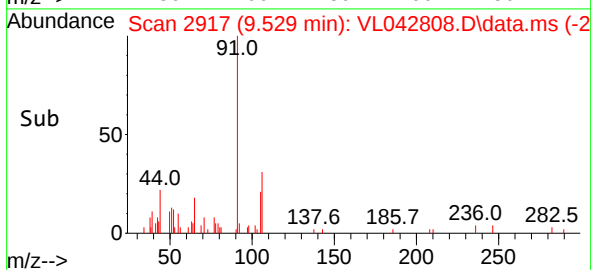
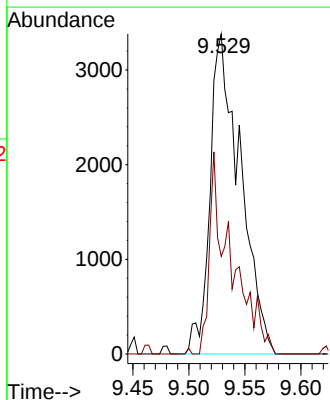
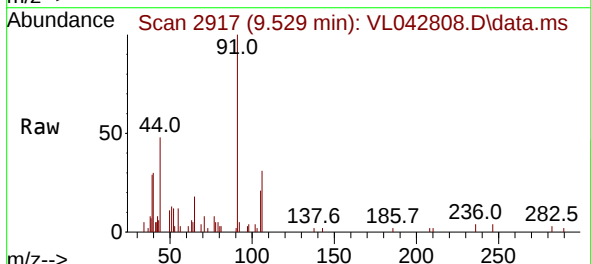
Manual Integrations
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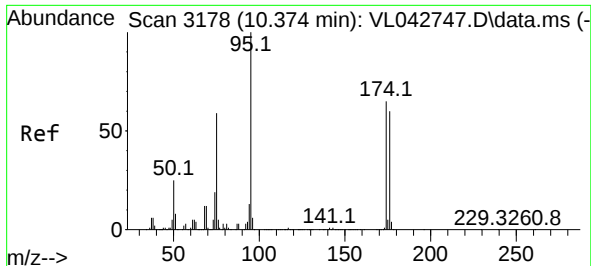
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025



#59
m/p-Xylene
Concen: 0.137 ppbv m
RT: 9.529 min Scan# 2917
Delta R.T. -0.023 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

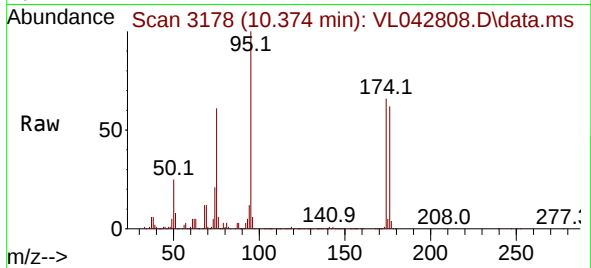
Tgt Ion: 91 Resp: 6348
Ion Ratio Lower Upper
91 100
106 0.0 37.4 56.2#





#68
1-Bromo-4-Fluorobenzene
Concen: 10.094 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.000 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

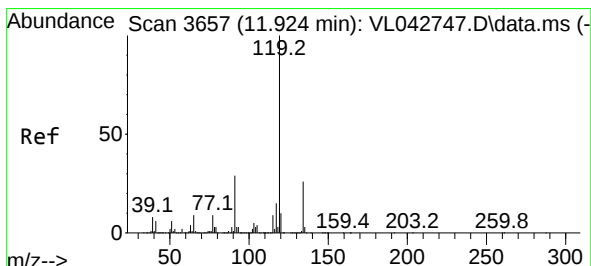
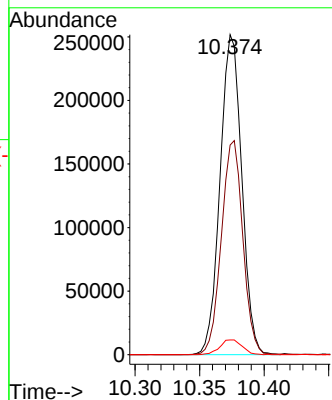
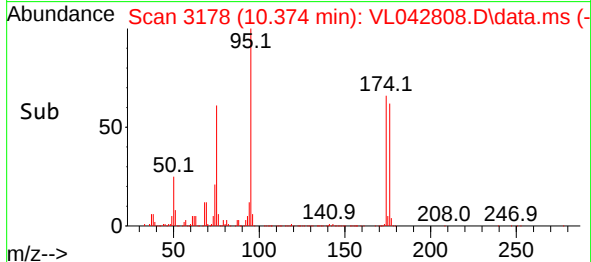
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10



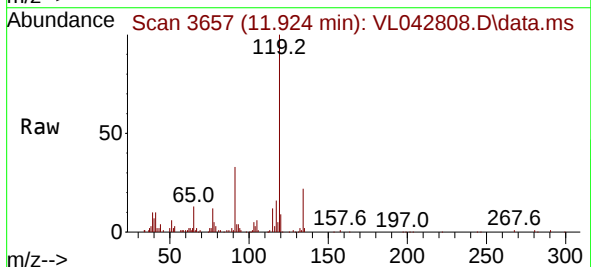
Tgt Ion: 95 Resp: 29384
Ion Ratio Lower Upper
95 100
174 66.2 53.8 80.6
175 4.8 4.0 6.0

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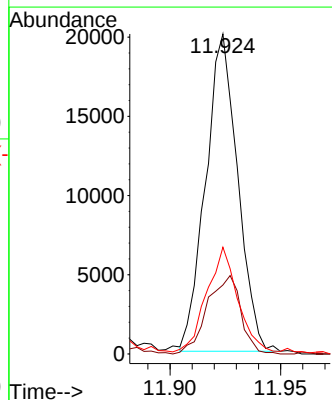
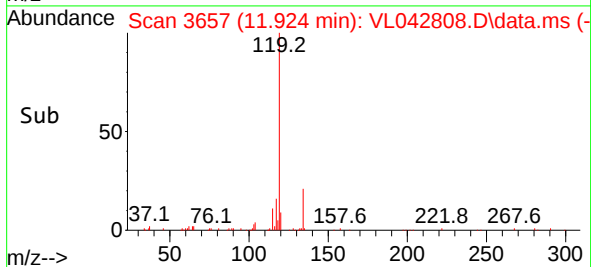
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

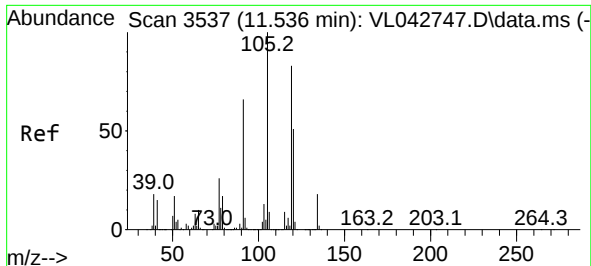


#69
p-Isopropyltoluene
Concen: 0.286 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.000 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51



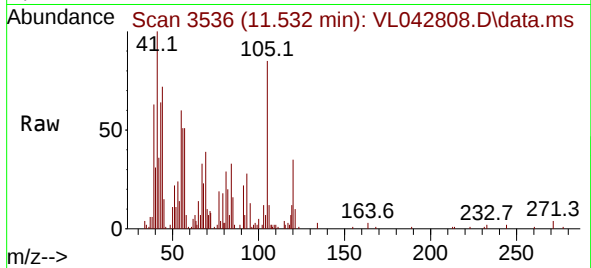
Tgt Ion:119 Resp: 20163
Ion Ratio Lower Upper
119 100
134 26.0 20.6 31.0
91 33.0 23.2 34.8





#74
1,2,4-Trimethylbenzene
Concen: 0.115 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

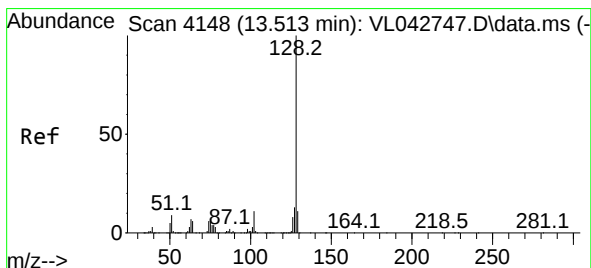
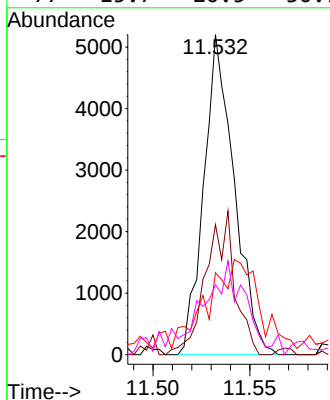
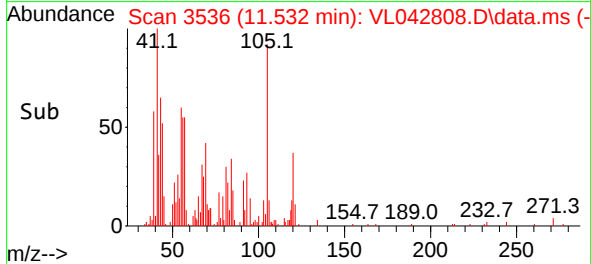
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-10



Tgt Ion:	105	Resp:	5708
Ion Ratio	Lower	Upper	
105	100		
120	39.2	40.8	61.2#
91	19.0	53.0	79.4#
77	15.7	20.5	30.7#

Manual Integrations
APPROVED

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



#79
Naphthalene
Concen: 0.457 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. -0.000 min
Lab File: VL042808.D
Acq: 04 Aug 2025 16:51

Tgt Ion:	128	Resp:	1257
Ion Ratio	Lower	Upper	
128	100		
127	7.0	10.5	15.7#
129	7.8	8.6	13.0#

