

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
 Data File : VL042655.D
 Acq On : 19 Jun 2025 15:09
 Operator : SY/MD
 Sample : Q2368-01 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025
 Supervised By :Mahesh Dadoda 06/23/2025

Quant Time: Jun 20 01:38:48 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	107855	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	293235	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.898	117	269229	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	206728	10.243	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.400%
Target Compounds						
					Qvalue	
9) Propene	1.489	41	2449	0.333	ppbv #	80
10) Heptane	5.004	43	40824	1.970	ppbv	98
13) Ethanol	1.725	45	3713	4.238	ppbv	100
15) Acetone	1.842	43	29355	2.260	ppbv	94
20) Methylene Chloride	2.072	84	976	0.228	ppbv #	53
26) Hexane	2.835	57	109668	6.789	ppbv #	41
27) Carbon Disulfide	2.159	76	1413	0.114	ppbv #	54
29) Chloroform	2.858	83	29238	1.392	ppbv	95
30) Cyclohexane	3.868	84	2582m	0.193	ppbv	
34) 2-Butanone	2.567	43	26717	1.278	ppbv	96
36) Benzene	3.667	78	5662	0.196	ppbv	97
41) Tetrahydrofuran	3.075	42	7342m	0.600	ppbv	
51) 2-Hexanone	7.457	43	111899	4.864	ppbv #	69
52) Tetrachloroethene	8.244	164	1484m	0.138	ppbv	
53) Toluene	6.952	91	92112	2.760	ppbv	99
58) Ethyl Benzene	9.373	91	26427	0.579	ppbv	93
59) m/p-Xylene	9.548	91	152600	4.246	ppbv	98
60) o-Xylene	9.982	91	60051	1.675	ppbv	96
62) Isopropylbenzene	10.555	105	14294	0.270	ppbv	98
72) 4-Ethyltoluene	11.141	105	15820	0.354	ppbv #	55
74) 1,2,4-Trimethylbenzene	11.548	105	30144	0.734	ppbv #	69

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

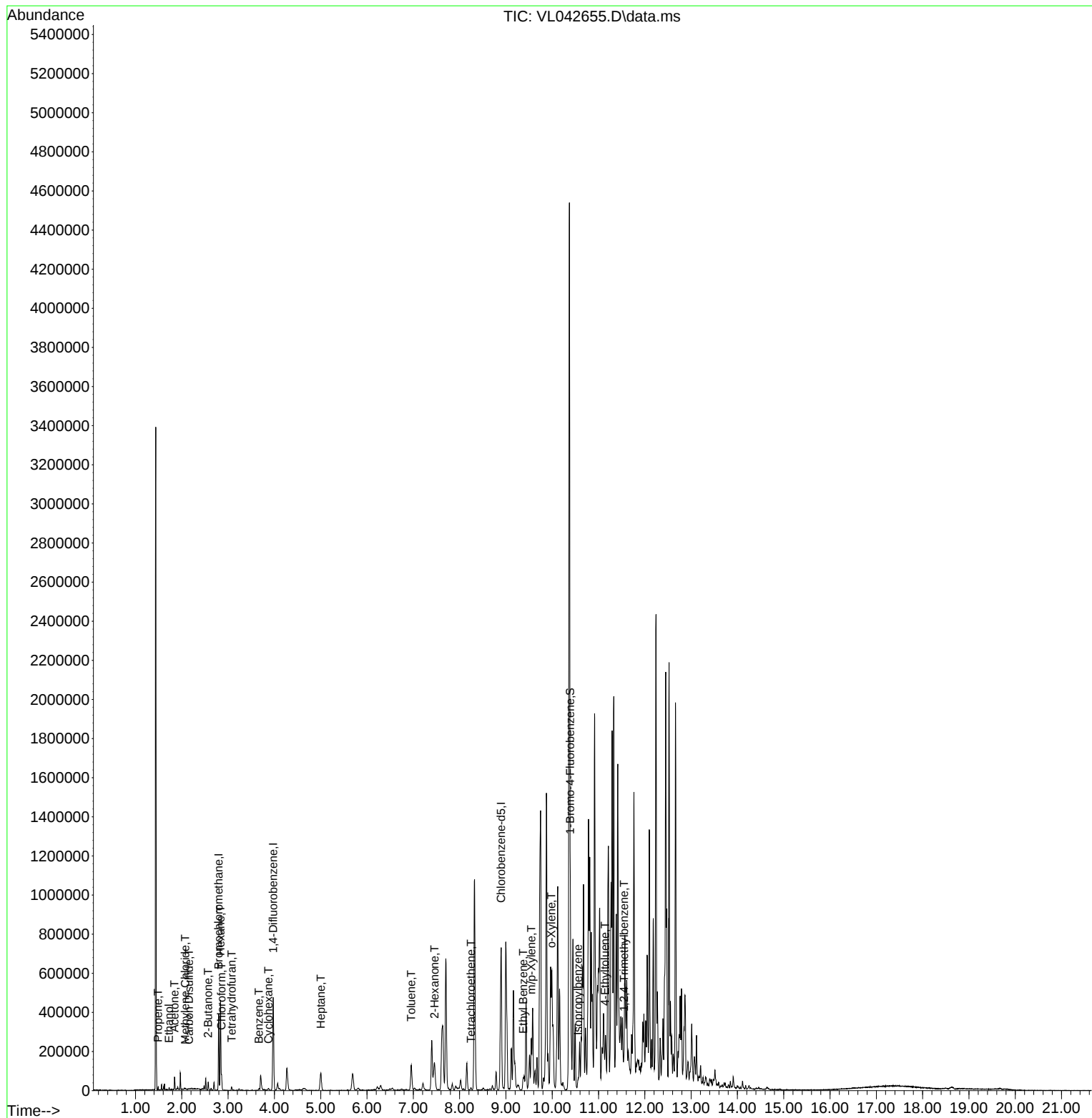
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
Data File : VL042655.D
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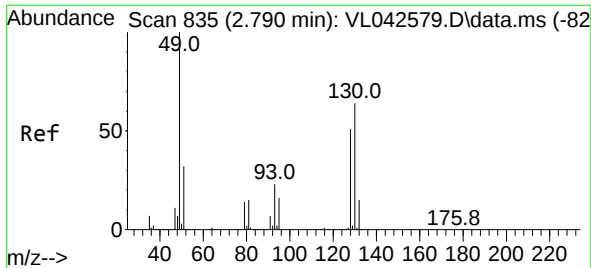
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri May 30 02:01:56 2025
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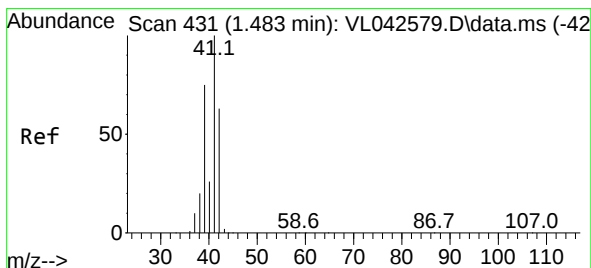
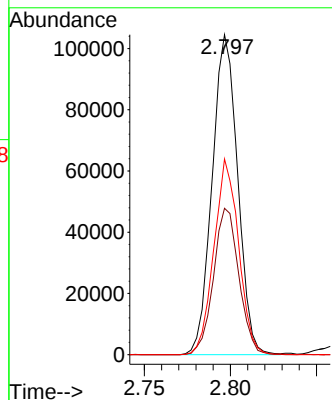
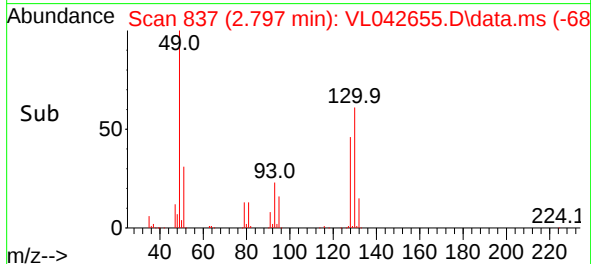
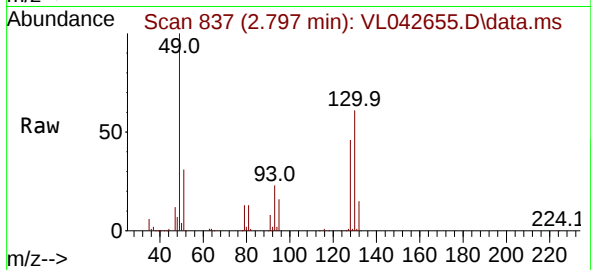
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. 0.007 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 49 Resp: 10785
Ion Ratio Lower Upper
49 100
128 45.6 24.2 72.6
130 59.2 30.4 91.2

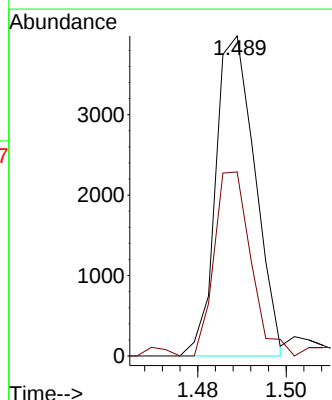
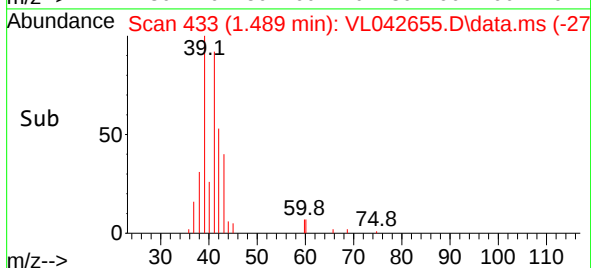
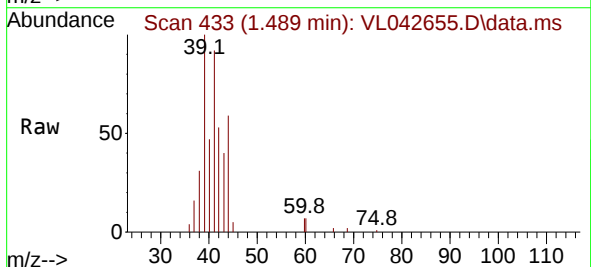
Manual Integrations
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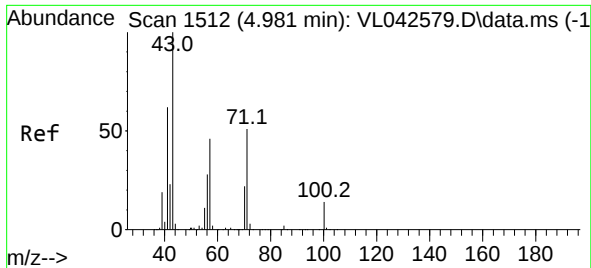
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#9
Propene
Concen: 0.333 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.006 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09

Tgt Ion: 41 Resp: 2449
Ion Ratio Lower Upper
41 100
42 50.6 53.3 79.9#





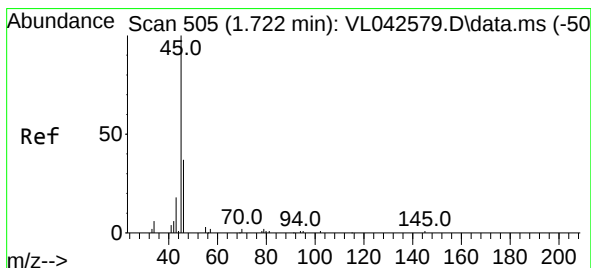
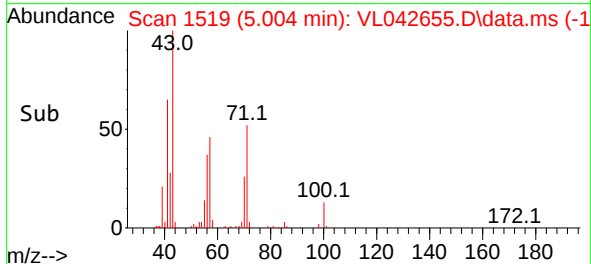
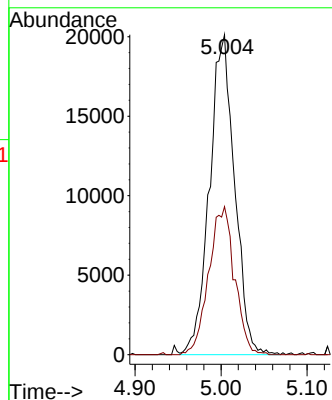
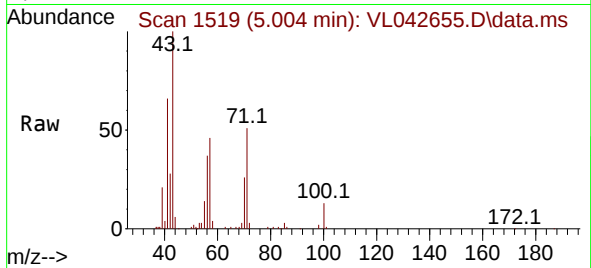
#10
Heptane
Concen: 1.970 ppbv
RT: 5.004 min Scan# 11
Delta R.T. 0.022 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 40824
Ion Ratio Lower Upper
43 100
57 47.4 38.9 58.3

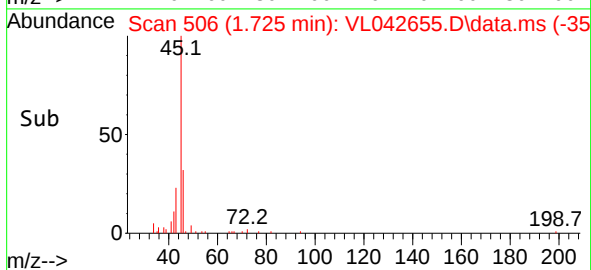
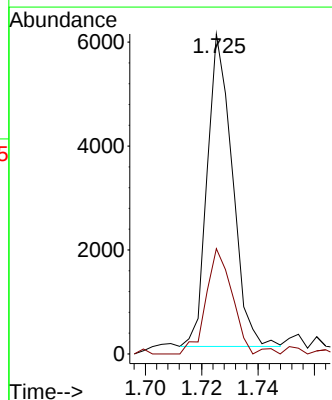
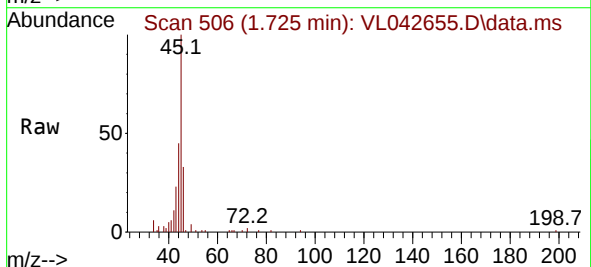
Manual Integrations
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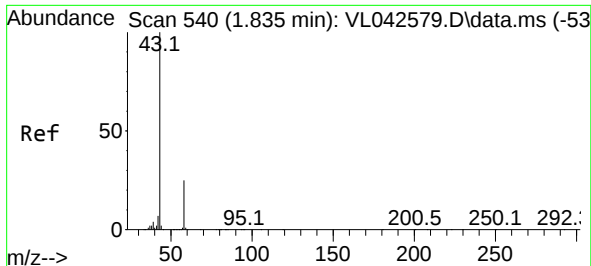
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#13
Ethanol
Concen: 4.238 ppbv
RT: 1.725 min Scan# 506
Delta R.T. 0.003 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09

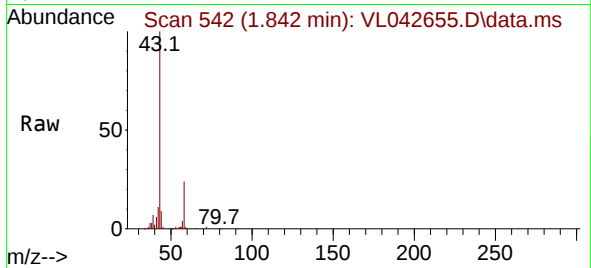
Tgt Ion: 45 Resp: 3713
Ion Ratio Lower Upper
45 100
46 36.5 14.5 58.1





#15
Acetone
Concen: 2.260 ppbv
RT: 1.842 min Scan# 540
Delta R.T. 0.006 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09

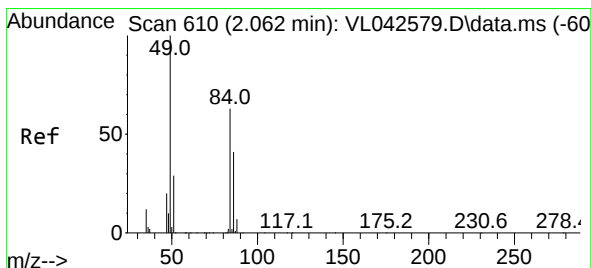
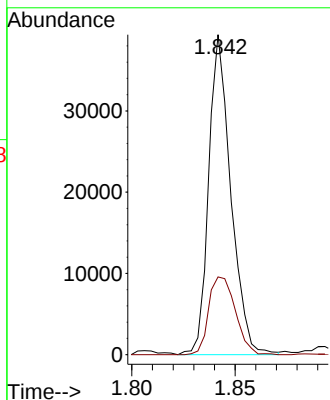
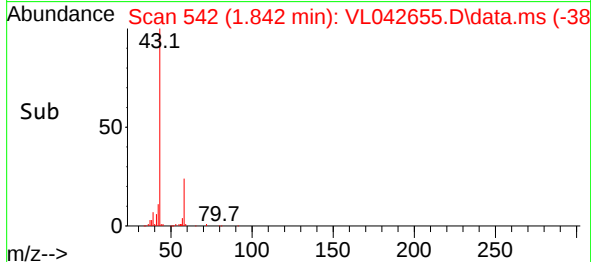
Instrument :
MSVOA_L
ClientSampleId :
SV1



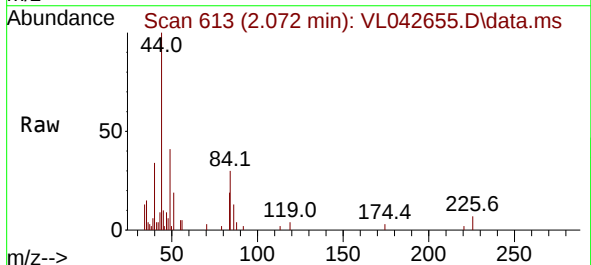
Tgt Ion: 43 Resp: 2935
Ion Ratio Lower Upper
43 100
58 29.2 21.0 31.4

Manual Integrations
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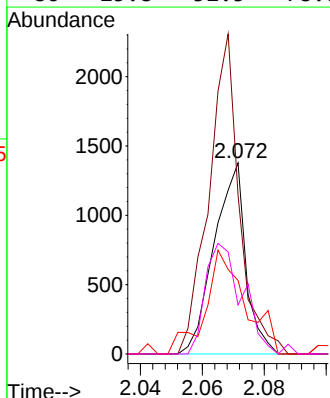
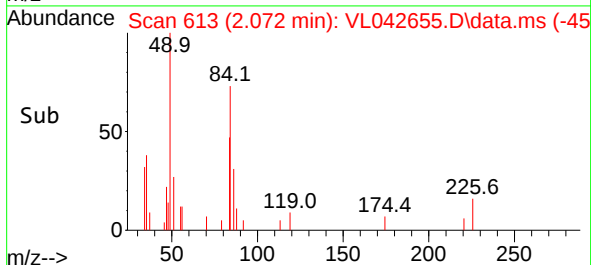
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

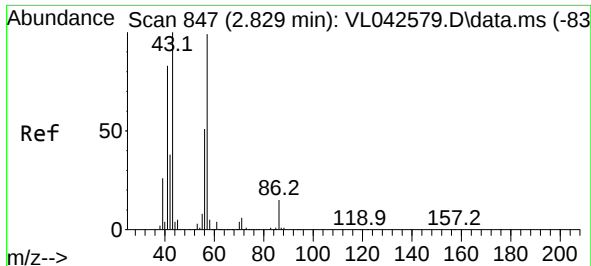


#20
Methylene Chloride
Concen: 0.228 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.010 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09



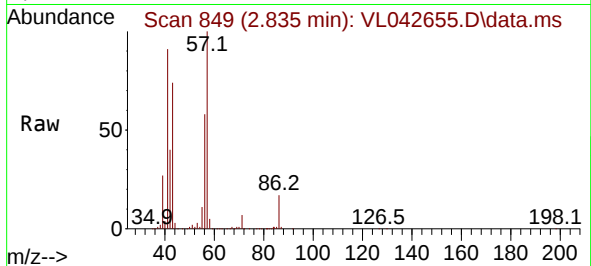
Tgt Ion: 84 Resp: 976
Ion Ratio Lower Upper
84 100
49 88.0 128.8 193.2#
51 38.5 38.6 57.8#
86 25.8 52.5 78.7#





#26
Hexane
Concen: 6.789 ppbv
RT: 2.835 min Scan# 847
Delta R.T. 0.006 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09

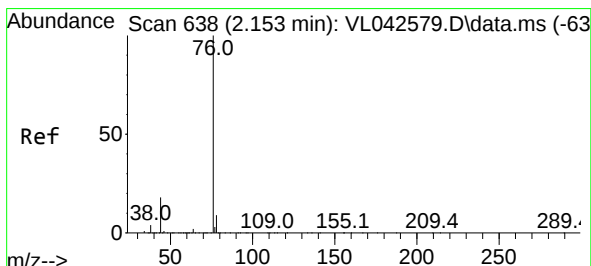
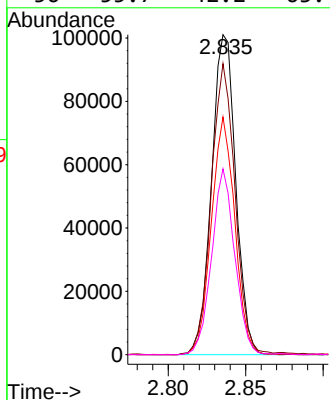
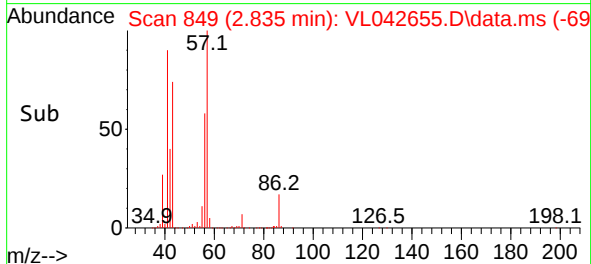
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 57 Resp: 109668
Ion Ratio Lower Upper
57 100
41 90.5 70.6 106.0
43 72.4 181.1 271.7
56 55.7 42.2 63.4

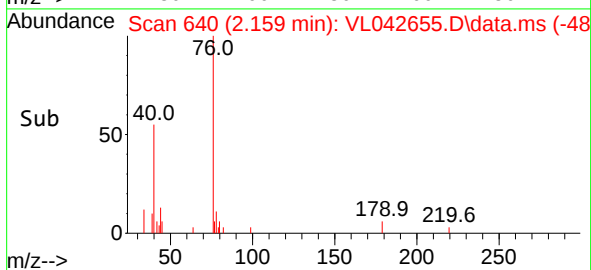
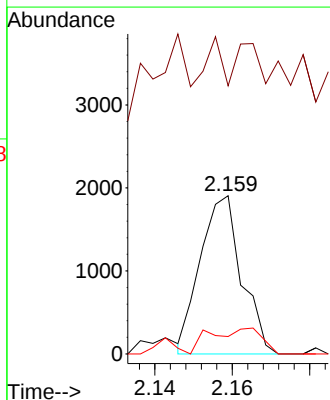
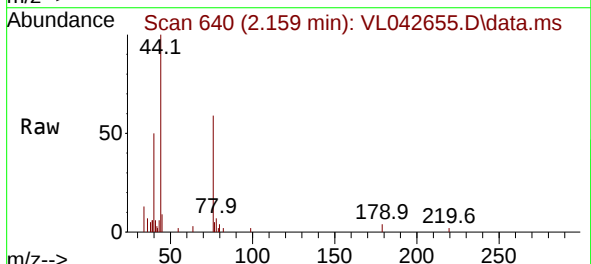
Manual Integrations
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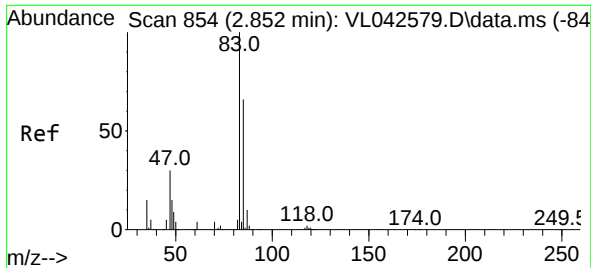
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#27
Carbon Disulfide
Concen: 0.114 ppbv
RT: 2.159 min Scan# 640
Delta R.T. 0.006 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09

Tgt Ion: 76 Resp: 1413
Ion Ratio Lower Upper
76 100
44 0.0 21.3 31.9#
78 25.1 9.4 14.0#





#29

Chloroform

Concen: 1.392 ppbv

RT: 2.858 min Scan# 856

Delta R.T. 0.006 min

Lab File: VL042655.D

Acq: 19 Jun 2025 15:09

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 83 Resp: 29238

Ion Ratio Lower Upper

83 100

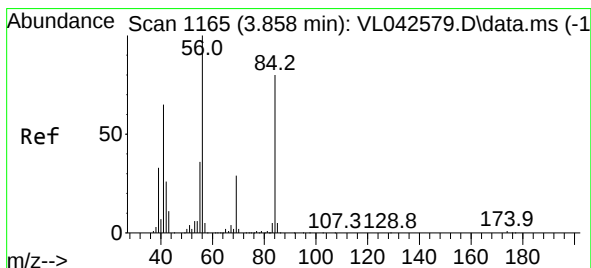
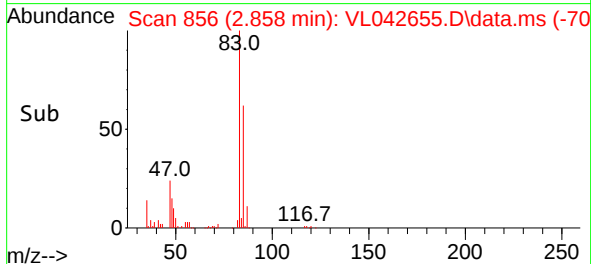
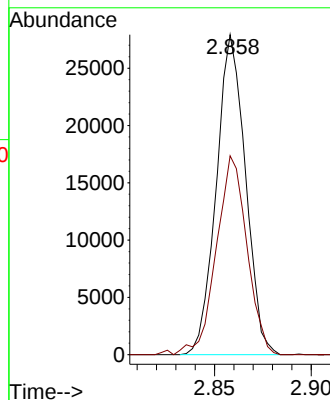
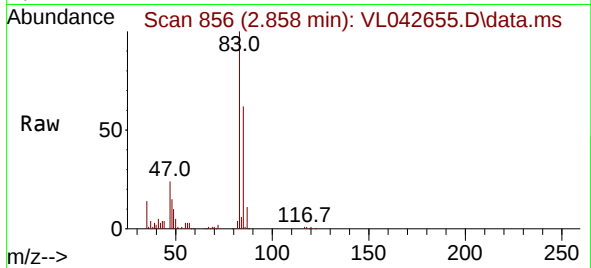
85 62.2 52.8 79.2

Manual Integrations

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Supervised By :Mahesh Dadoda 06/23/2025



#30

Cyclohexane

Concen: 0.193 ppbv m

RT: 3.868 min Scan# 1168

Delta R.T. 0.010 min

Lab File: VL042655.D

Acq: 19 Jun 2025 15:09

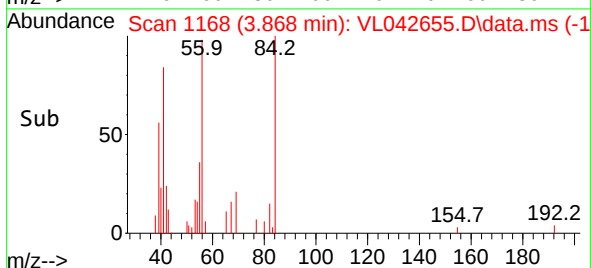
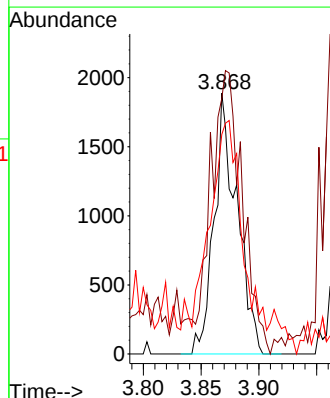
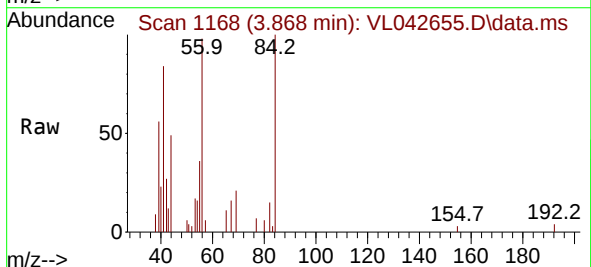
Tgt Ion: 84 Resp: 2582

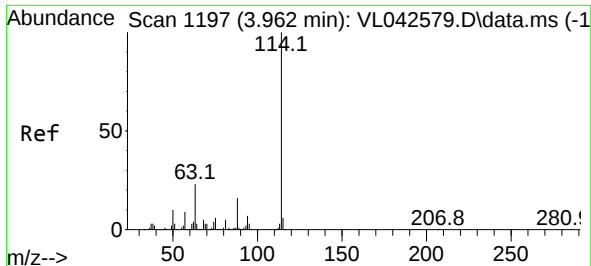
Ion Ratio Lower Upper

84 100

56 162.9 103.7 155.5#

41 143.5 65.1 97.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.975 min Scan# 1197

Delta R.T. 0.013 min

Lab File: VL042655.D

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MSVOA_L

ClientSampleId :

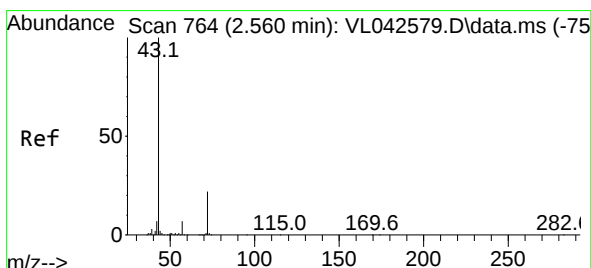
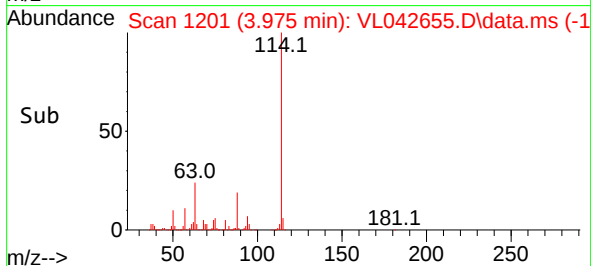
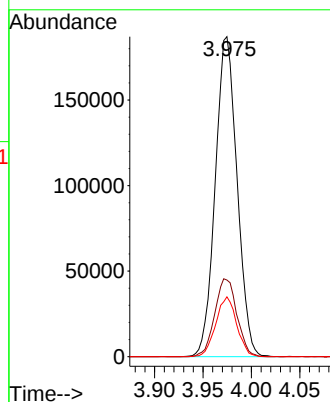
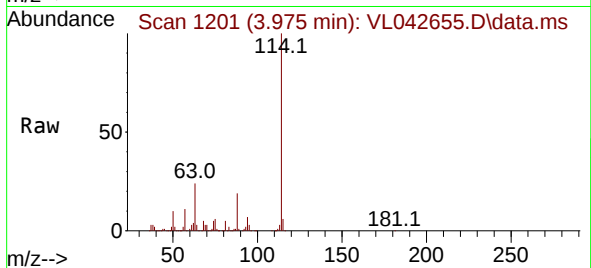
SV1

Tgt Ion:114 Resp: 293235
 Ion Ratio Lower Upper
 114 100
 63 24.8 19.0 28.6
 88 18.0 13.6 20.4

Manual Integrations

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 Supervised By :Mahesh Dadoda 06/23/2025



#34

2-Butanone

Concen: 1.278 ppbv

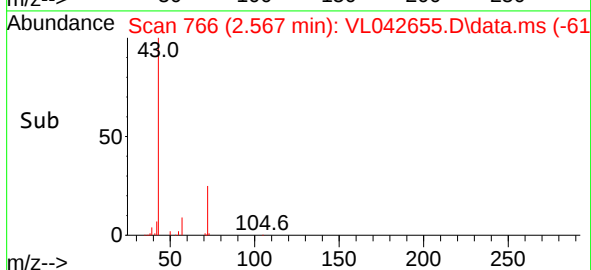
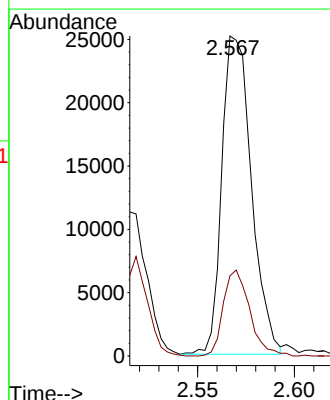
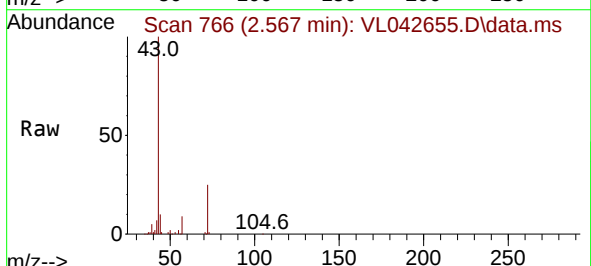
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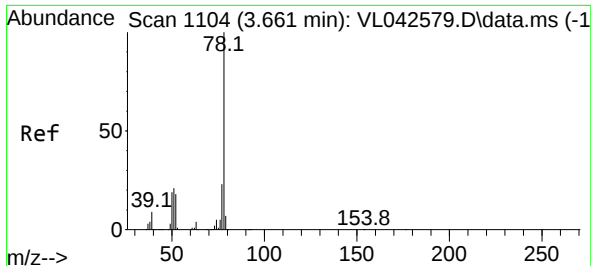
Delta R.T. 0.006 min

Lab File: VL042655.D

Acq: 19 Jun 2025 15:09

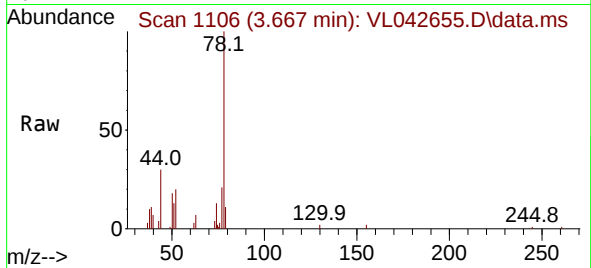
Tgt Ion: 43 Resp: 26717
 Ion Ratio Lower Upper
 43 100
 72 24.2 17.7 26.5





#36
Benzene
Concen: 0.196 ppbv
RT: 3.667 min Scan# 1106
Delta R.T. 0.006 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09

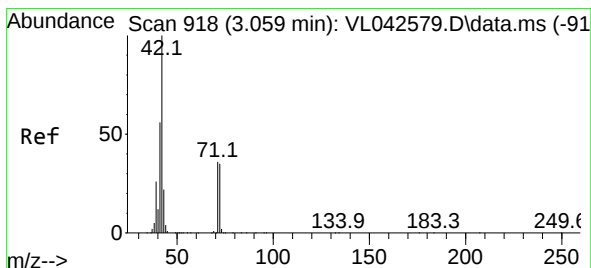
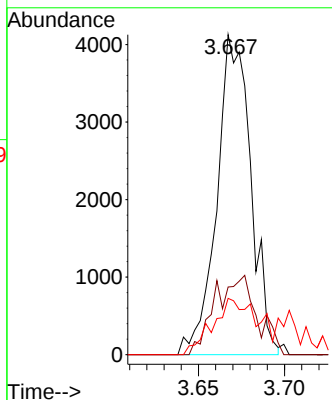
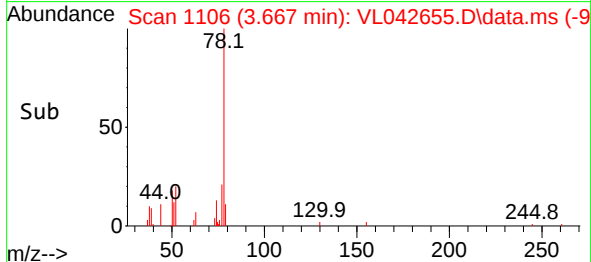
Instrument :
MSVOA_L
ClientSampleId :
SV1



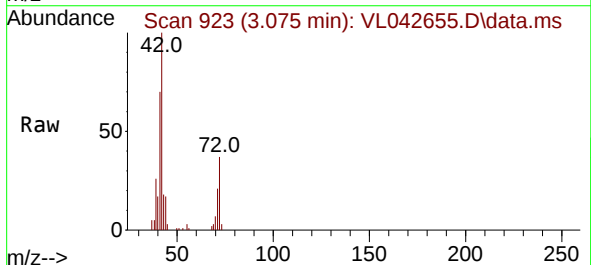
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Ion Ratio Lower Upper
78 100
77 21.2 18.2 27.2
50 17.6 15.2 22.8

Manual Integrations
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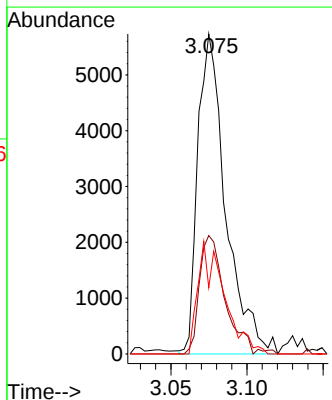
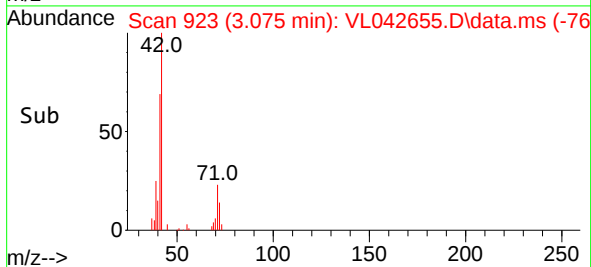
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

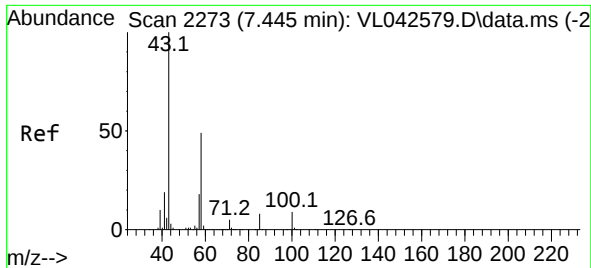


#41
Tetrahydrofuran
Concen: 0.600 ppbv m
RT: 3.075 min Scan# 923
Delta R.T. 0.016 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09



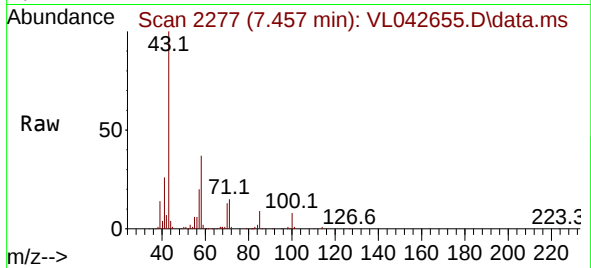
Tgt Ion: 42 Resp: 7342
Ion Ratio Lower Upper
42 100
72 34.1 28.9 43.3
71 32.9 28.5 42.7





#51
2-Hexanone
Concen: 4.864 ppbv
RT: 7.457 min Scan# 21189
Delta R.T. 0.013 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09

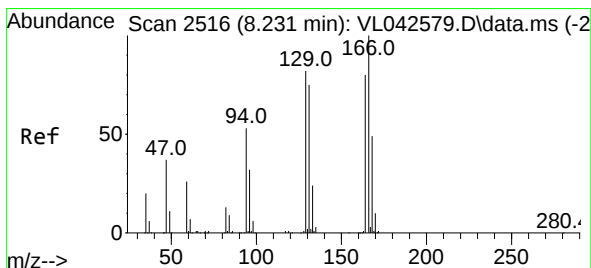
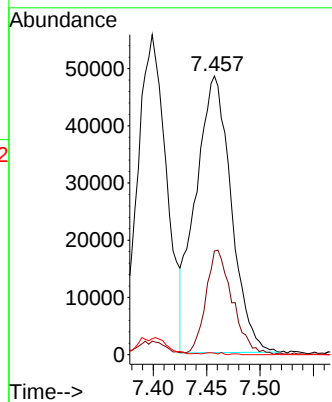
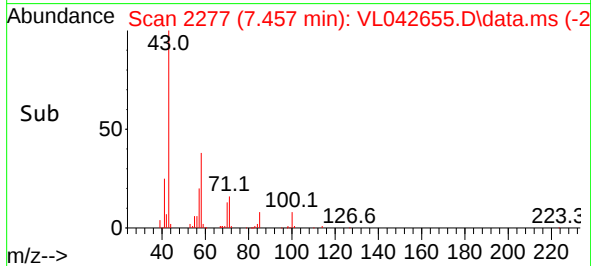
Instrument :
MSVOA_L
ClientSampleId :
SV1



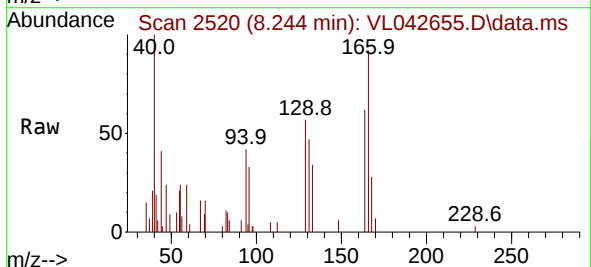
Tgt Ion: 43 Resp: 11189
Ion Ratio Lower Upper
43 100
58 28.8 39.9 59.9
98 0.0 0.1 0.1

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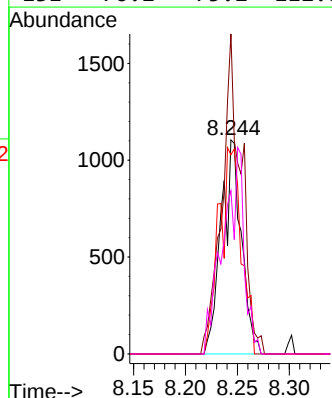
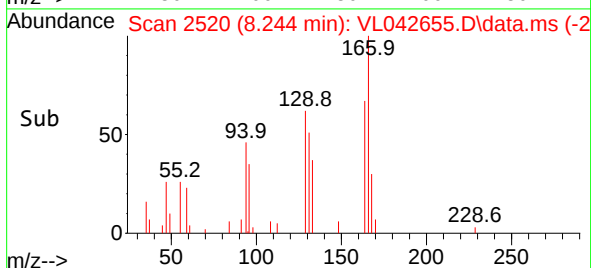
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

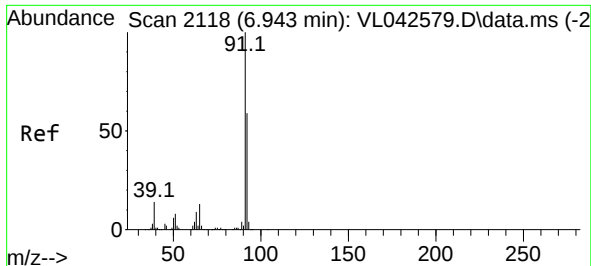


#52
Tetrachloroethene
Concen: 0.138 ppbv m
RT: 8.244 min Scan# 2520
Delta R.T. 0.013 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09



Tgt Ion:164 Resp: 1484
Ion Ratio Lower Upper
164 100
166 149.5 100.0 150.0
129 93.0 82.2 123.4
131 76.2 75.2 112.8





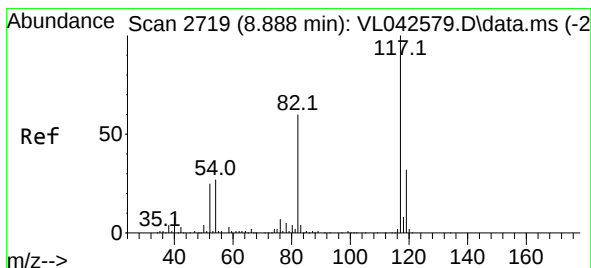
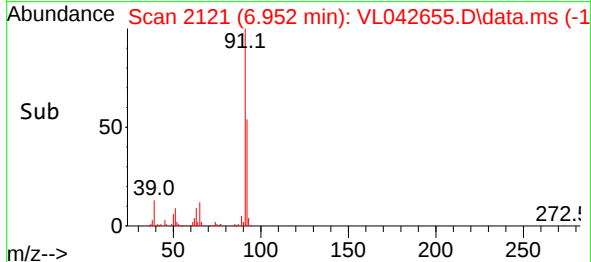
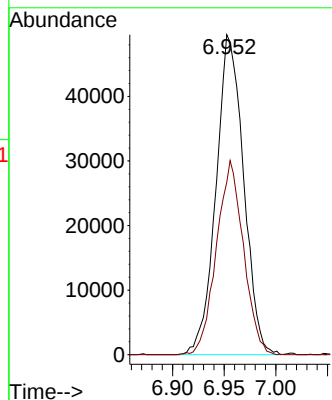
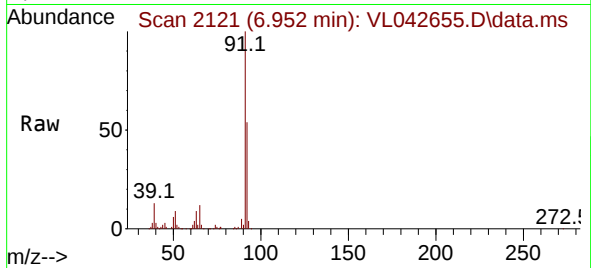
#53
Toluene
Concen: 2.760 ppbv
RT: 6.952 min Scan# 2111
Delta R.T. 0.010 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 9211
Ion Ratio Lower Upper
91 100
92 59.5 48.2 72.4

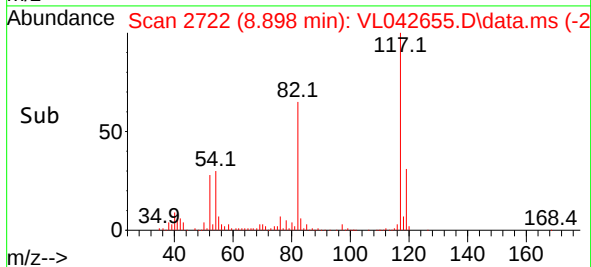
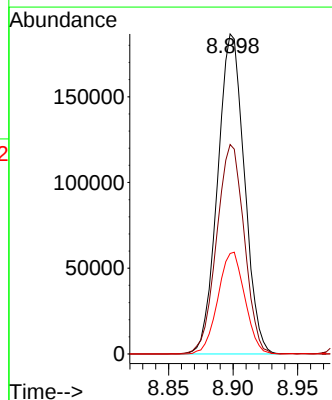
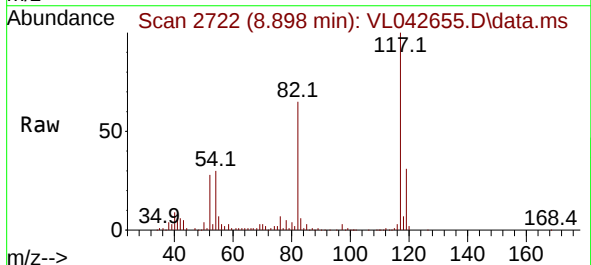
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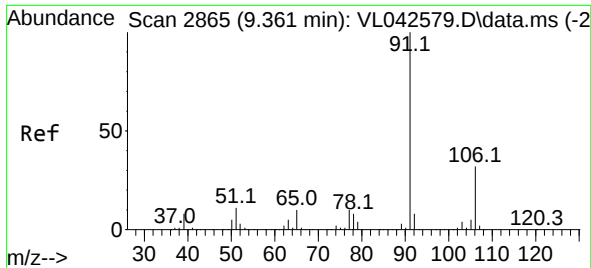
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2722
Delta R.T. 0.010 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09

Tgt Ion:117 Resp: 269229
Ion Ratio Lower Upper
117 100
82 67.5 51.2 76.8
119 31.9 26.3 39.5





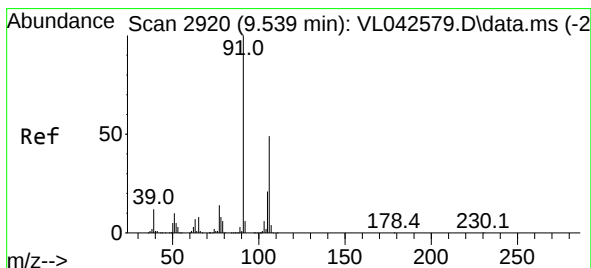
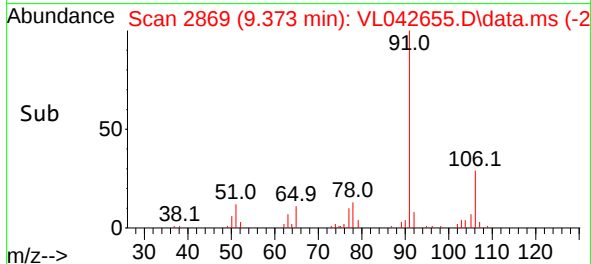
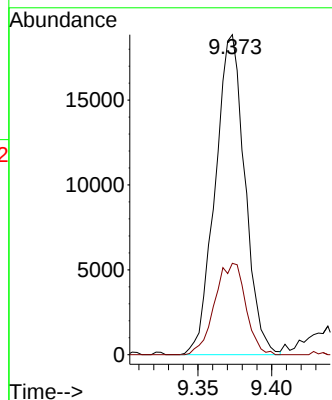
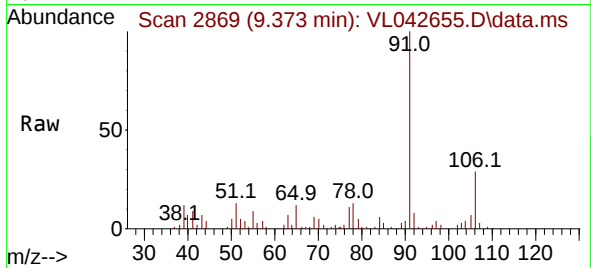
#58
Ethyl Benzene
Concen: 0.579 ppbv
RT: 9.373 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 2642
Ion Ratio Lower Upper
91 100
106 28.6 25.9 38.9

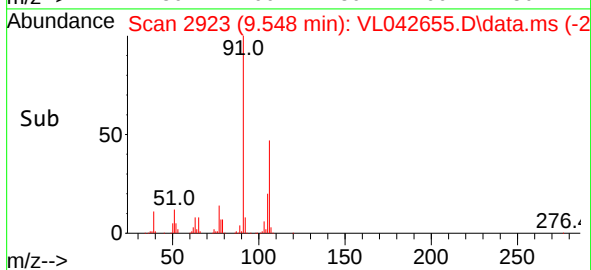
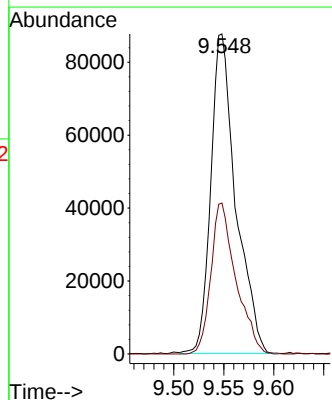
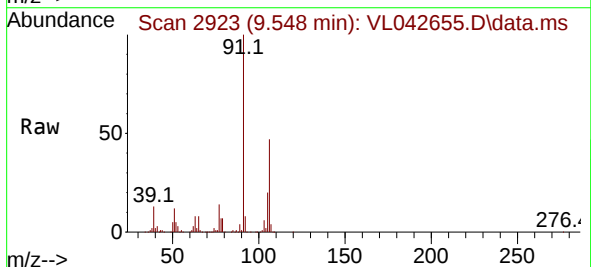
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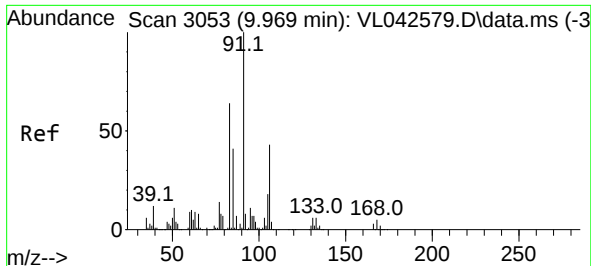
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#59
m/p-Xylene
Concen: 4.246 ppbv
RT: 9.548 min Scan# 2923
Delta R.T. 0.010 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09

Tgt Ion: 91 Resp: 152600
Ion Ratio Lower Upper
91 100
106 47.3 38.8 58.2





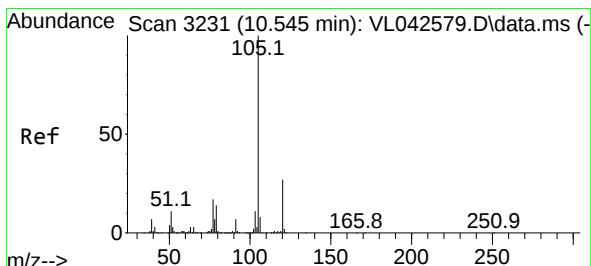
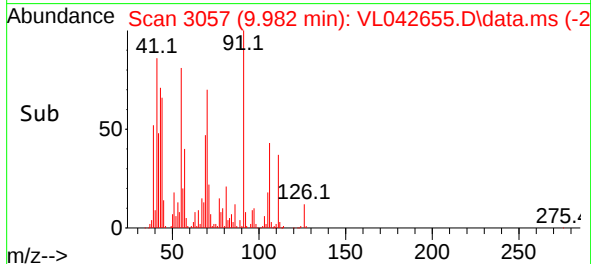
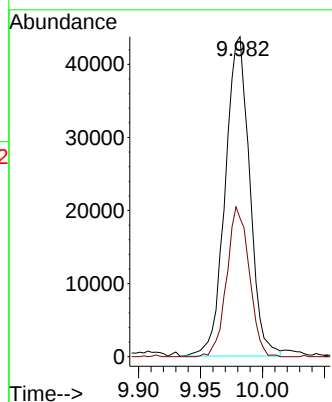
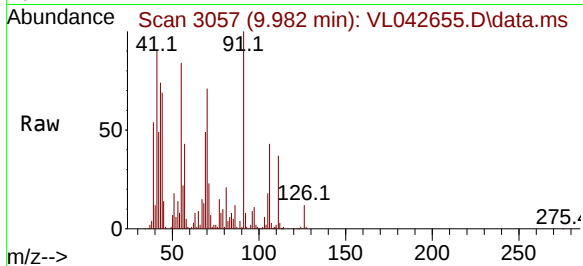
#60
o-Xylene
Concen: 1.675 ppbv
RT: 9.982 min Scan# 3057
Delta R.T. 0.013 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 6005
Ion Ratio Lower Upper
91 100
106 43.1 22.9 68.5

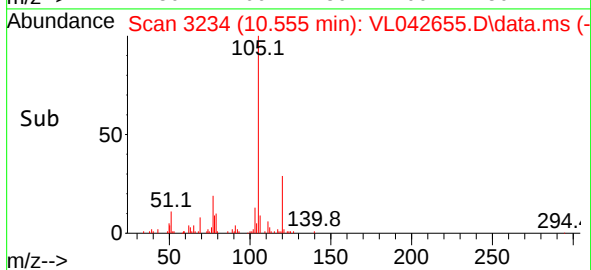
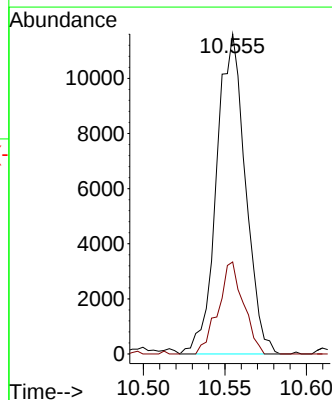
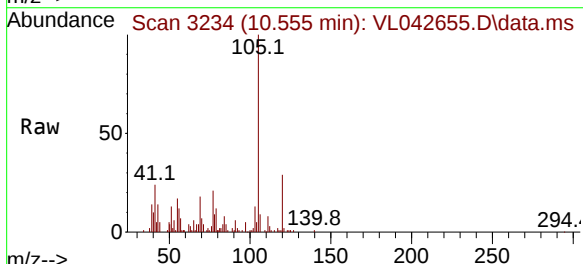
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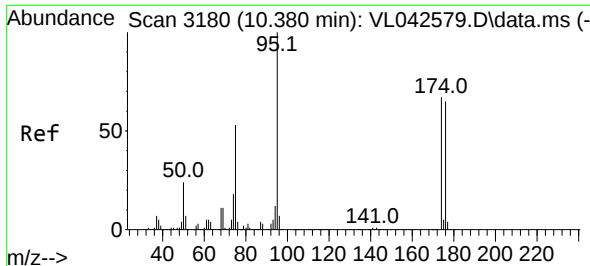
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#62
Isopropylbenzene
Concen: 0.270 ppbv
RT: 10.555 min Scan# 3234
Delta R.T. 0.010 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09

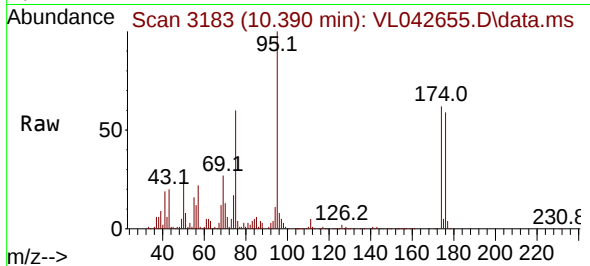
Tgt Ion:105 Resp: 14294
Ion Ratio Lower Upper
105 100
120 25.2 20.9 31.3





#68
1-Bromo-4-Fluorobenzene
Concen: 10.243 ppbv
RT: 10.390 min Scan# 3183
Delta R.T. 0.010 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09

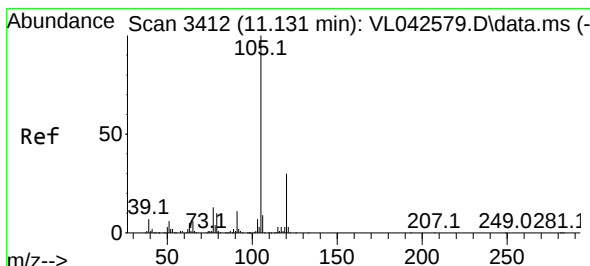
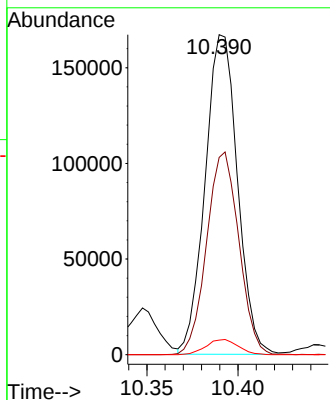
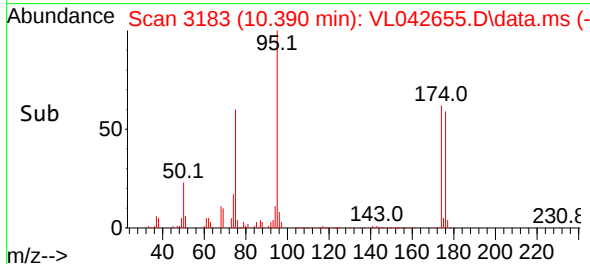
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 95 Resp: 206728
Ion Ratio Lower Upper
95 100
174 63.2 53.1 79.7
175 4.7 4.2 6.2

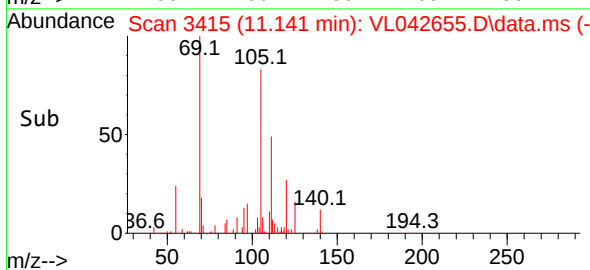
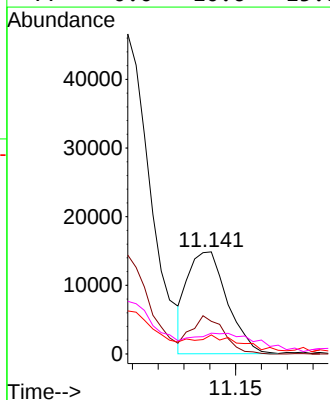
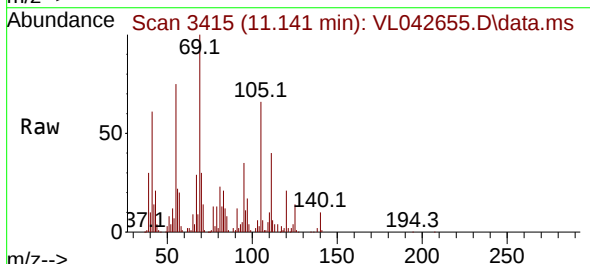
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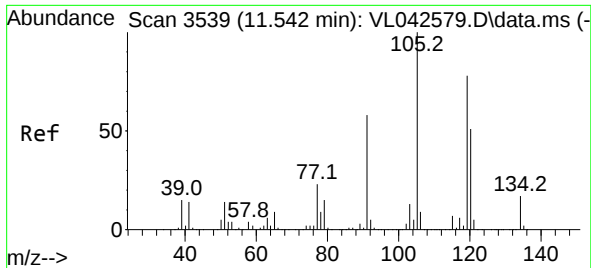
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#72
4-Ethyltoluene
Concen: 0.354 ppbv
RT: 11.141 min Scan# 3415
Delta R.T. 0.010 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09

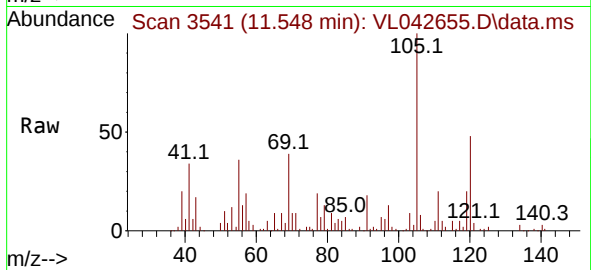
Tgt Ion:105 Resp: 15820
Ion Ratio Lower Upper
105 100
120 0.0 24.6 36.8#
91 0.0 9.6 14.4#
77 0.0 10.6 15.8#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.734 ppbv
 RT: 11.548 min Scan# 3014
 Delta R.T. 0.006 min
 Lab File: VL042655.D
 Acq: 19 Jun 2025 15:09

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1



Tgt Ion:	105	Resp:	3014
Ion Ratio	Lower	Upper	
105	100		
120	47.7	40.8	61.2
91	14.9	46.8	70.2
77	13.4	18.2	27.2

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 06/23/2025
 Supervised By :Mahesh Dadoda 06/23/2025

