

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112425\
 Data File : VL043283.D
 Acq On : 24 Nov 2025 15:35
 Operator : SY/MD
 Sample : Q3696-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2025
 Supervised By :Mahesh Dadoda 11/25/2025

Quant Time: Nov 24 23:41:31 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	106409	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	274861	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	210706	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	150182	9.724	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.200%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	8095	0.539	ppbv	96
3) Chlorodifluoromethane	1.476	51	4016m	0.272	ppbv	
4) Chloromethane	1.531	50	3099	0.552	ppbv #	82
9) Propene	1.486	41	6479	1.034	ppbv #	1
10) Heptane	4.975	43	2623m	0.141	ppbv	
11) Trichlorofluoromethane	1.878	101	3821	0.263	ppbv	88
13) Ethanol	1.719	45	42829	19.433	ppbv	99
15) Acetone	1.835	43	79460	5.375	ppbv	94
19) Isopropyl Alcohol	1.884	45	22670	2.714	ppbv #	32
20) Methylene Chloride	2.062	84	5919	0.623	ppbv #	90
26) Hexane	2.823	57	7099	0.508	ppbv #	44
29) Chloroform	2.845	83	2804	0.141	ppbv	98
34) 2-Butanone	2.557	43	15932	0.821	ppbv	96
35) Carbon Tetrachloride	3.755	117	1729m	0.083	ppbv	
36) Benzene	3.651	78	8923	0.339	ppbv	93
38) Trichloroethene	4.535	130	451m	0.044	ppbv	
41) Tetrahydrofuran	3.056	42	6044	0.564	ppbv	96
44) 2,2,4-Trimethylpentane	4.629	57	11320m	0.250	ppbv	
52) Tetrachloroethene	8.212	164	1588m	0.162	ppbv	
53) Toluene	6.923	91	13011m	0.417	ppbv	
59) m/p-Xylene	9.526	91	6433m	0.198	ppbv	

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

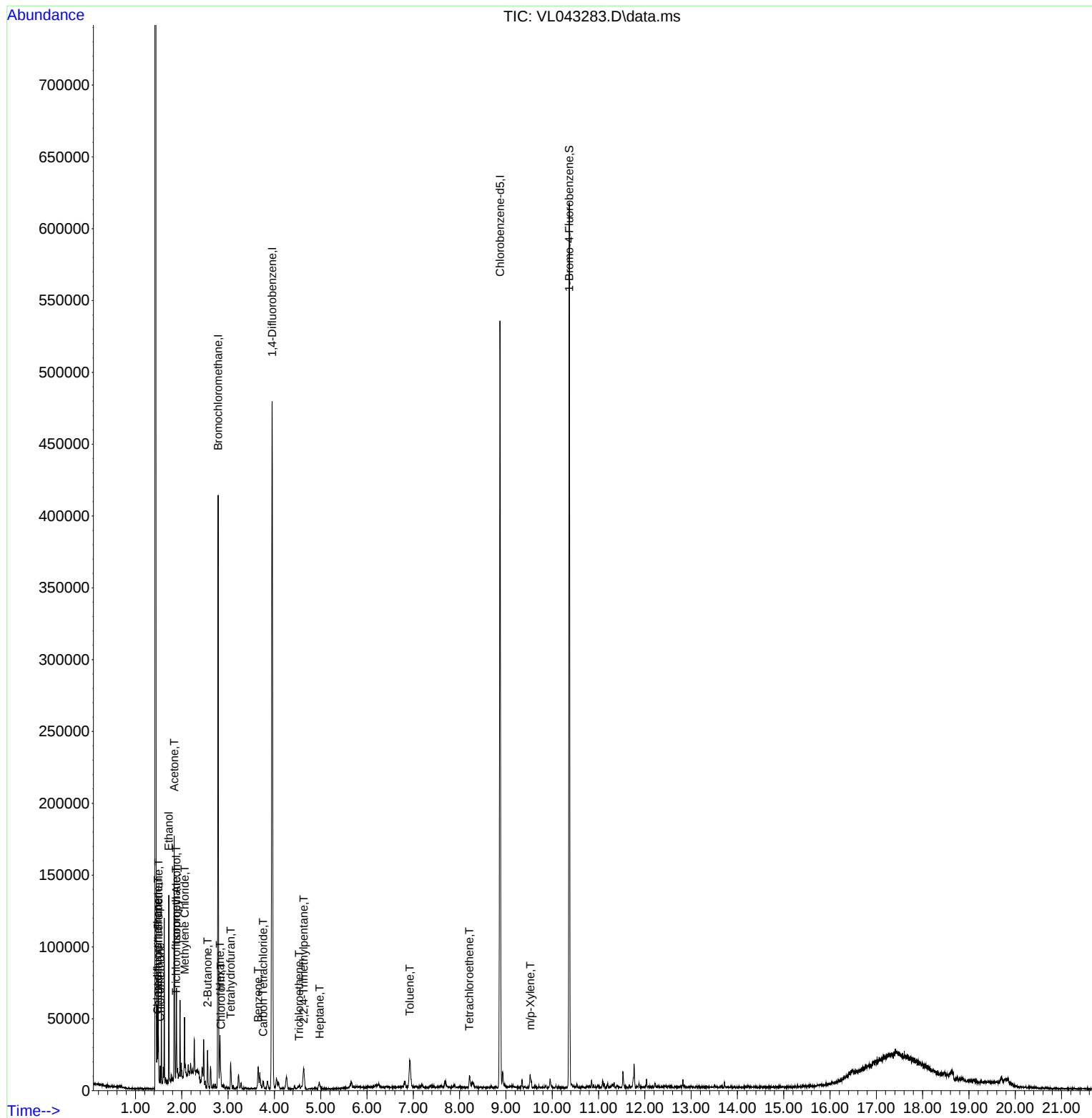
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112425\
Data File : VL043283.D
Acq On : 24 Nov 2025 15:35
Operator : SY/MD
Sample : Q3696-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

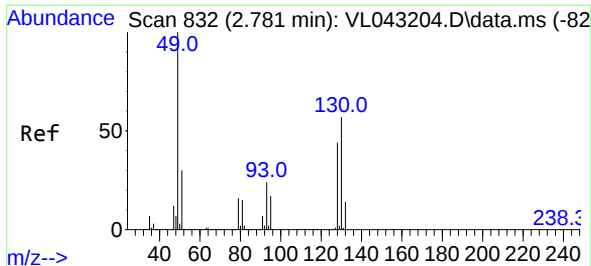
Instrument :
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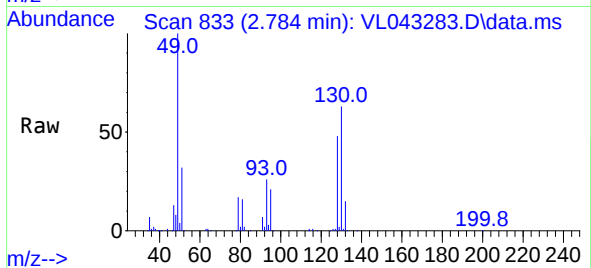
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL11825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35

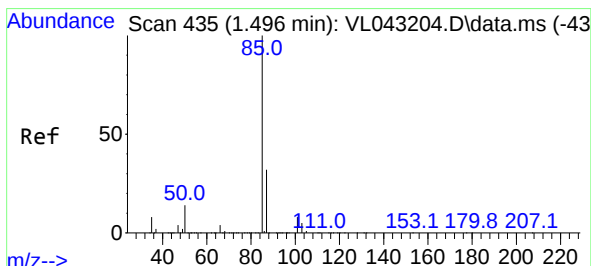
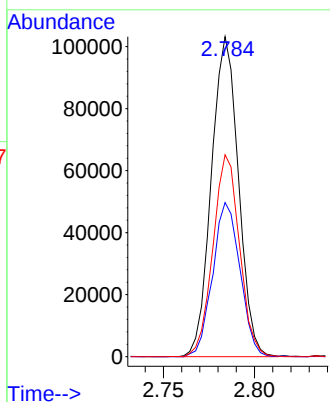
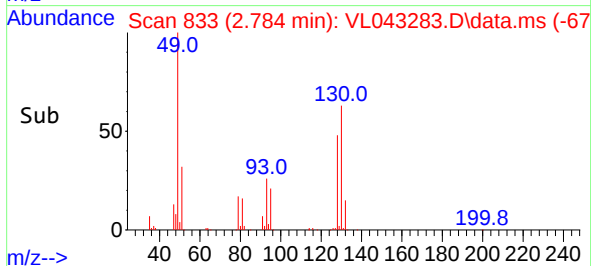
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 49 Resp: 106409
Ion Ratio Lower Upper
49 100
128 48.8 23.0 69.0
130 62.0 29.9 89.7

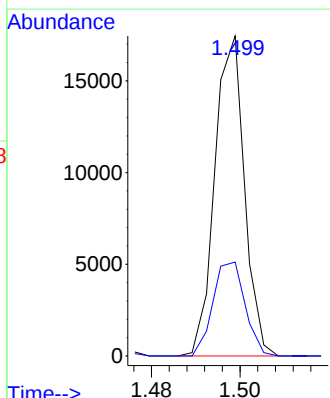
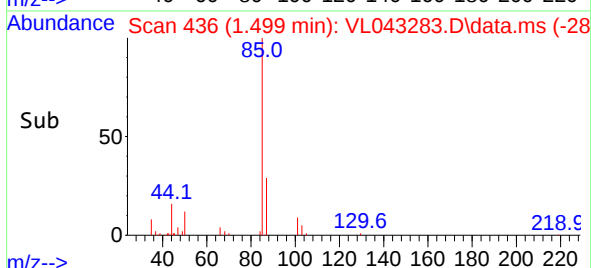
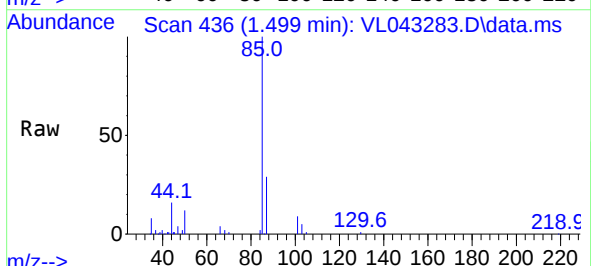
Manual Integrations
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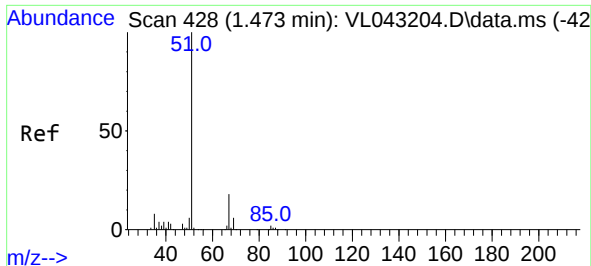
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#2
Dichlorodifluoromethane
Concen: 0.539 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35

Tgt Ion: 85 Resp: 8095
Ion Ratio Lower Upper
85 100
87 29.3 25.4 38.2





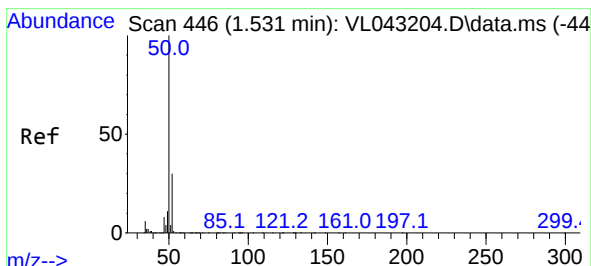
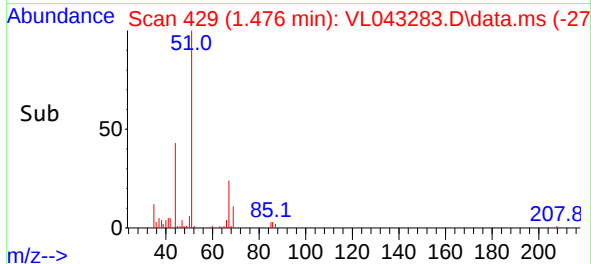
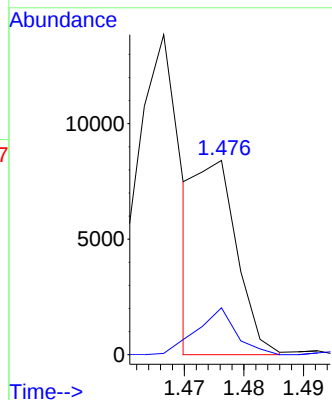
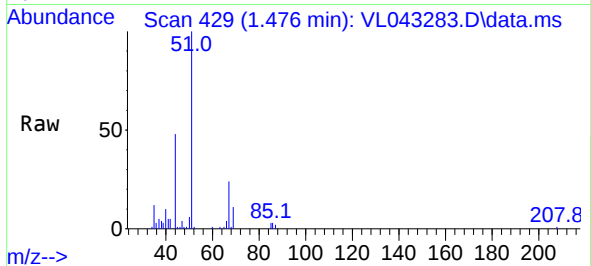
#3
Chlorodifluoromethane
Concen: 0.272 ppbv m
RT: 1.476 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 51 Resp: 4010
Ion Ratio Lower Upper
51 100
67 4.1 14.9 22.3

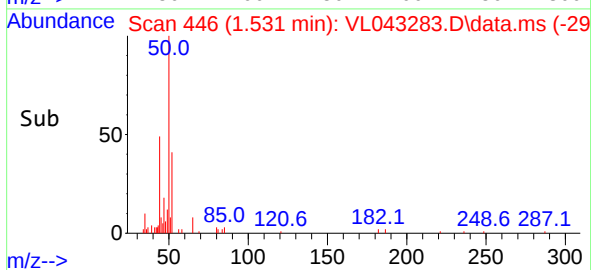
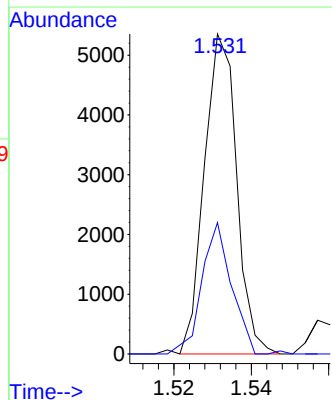
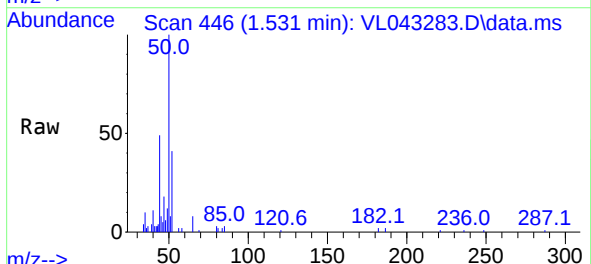
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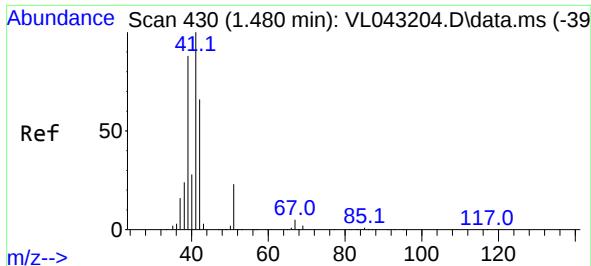
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#4
Chloromethane
Concen: 0.552 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35

Tgt Ion: 50 Resp: 3099
Ion Ratio Lower Upper
50 100
52 40.1 24.1 36.1





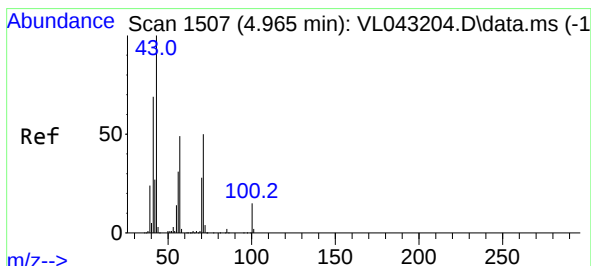
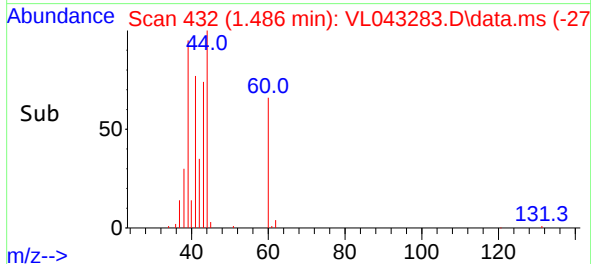
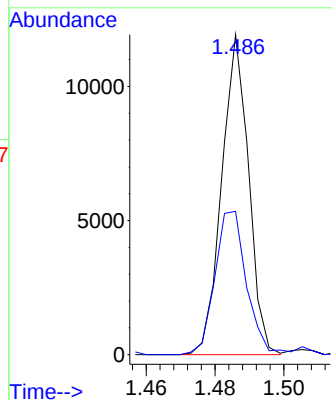
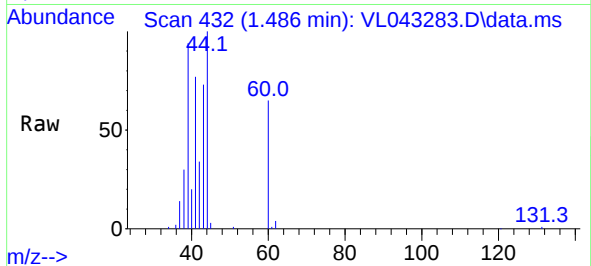
#9
Propene
Concen: 1.034 ppbv
RT: 1.486 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 41 Resp: 6479
Ion Ratio Lower Upper
41 100
42 58.6 3.7 5.5

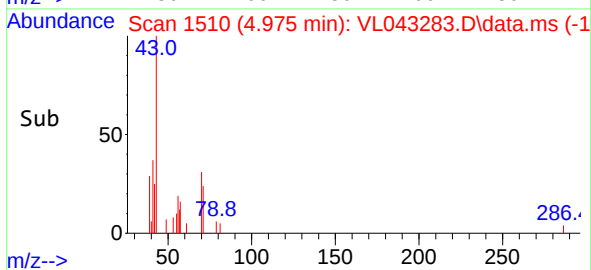
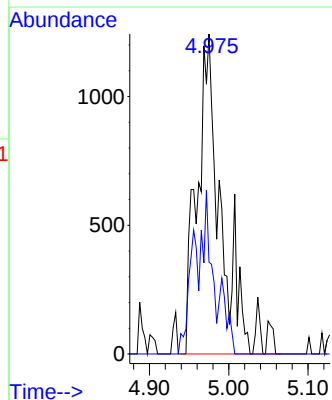
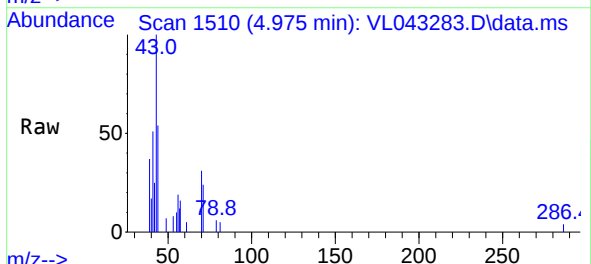
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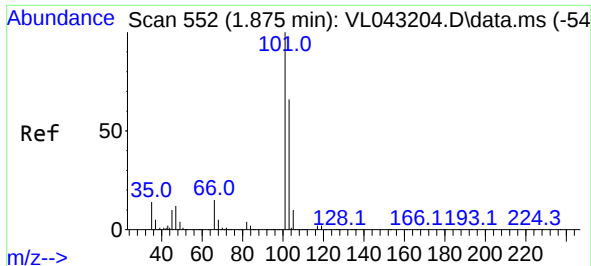
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#10
Heptane
Concen: 0.141 ppbv m
RT: 4.975 min Scan# 1510
Delta R.T. 0.010 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35

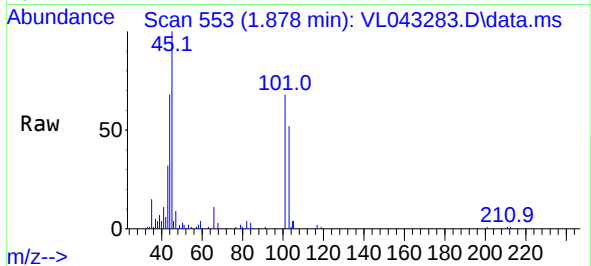
Tgt Ion: 43 Resp: 2623
Ion Ratio Lower Upper
43 100
57 42.1 39.7 59.5





#11
Trichlorofluoromethane
Concen: 0.263 ppbv
RT: 1.878 min Scan# 501
Delta R.T. 0.003 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35

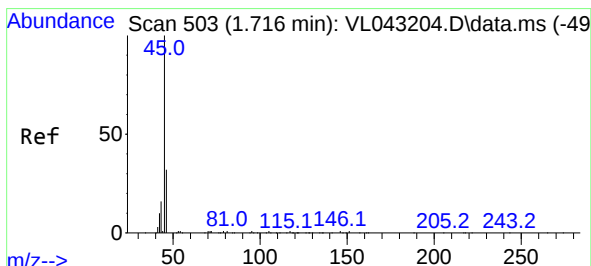
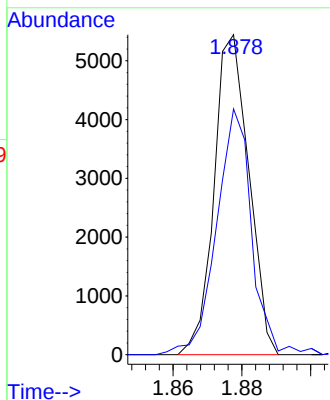
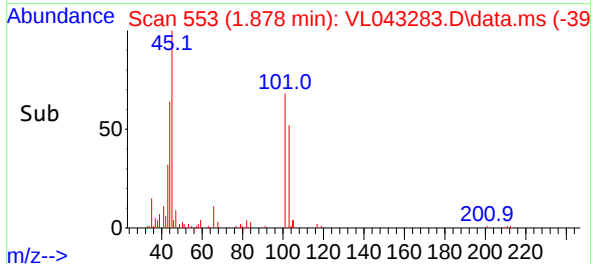
Instrument :
MSVOA_L
ClientSampleId :
IA2



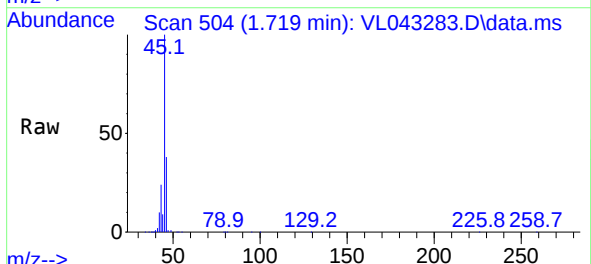
Tgt Ion:101 Resp: 382
Ion Ratio Lower Upper
101 100
103 75.7 52.6 79.0

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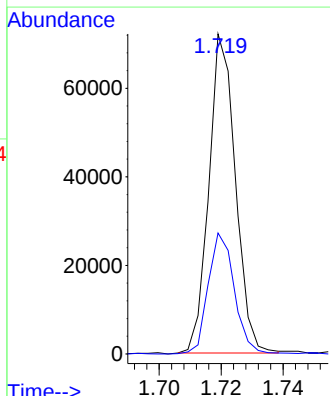
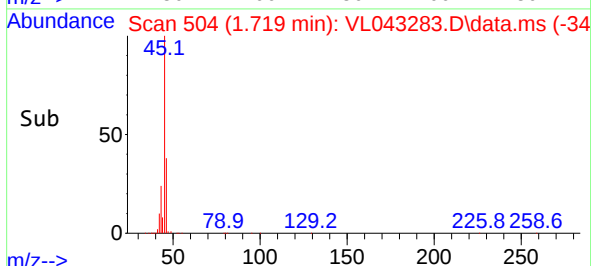
Reviewed By :Semsettin Yesilyurt 11/25/2025
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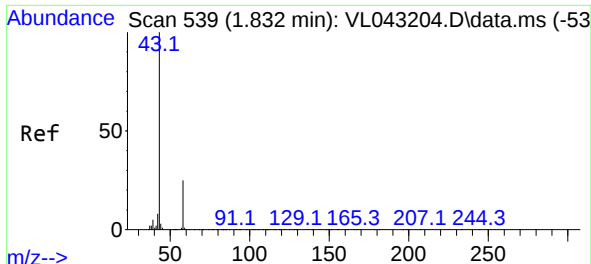


#13
Ethanol
Concen: 19.433 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35



Tgt Ion: 45 Resp: 42829
Ion Ratio Lower Upper
45 100
46 37.9 15.0 59.8





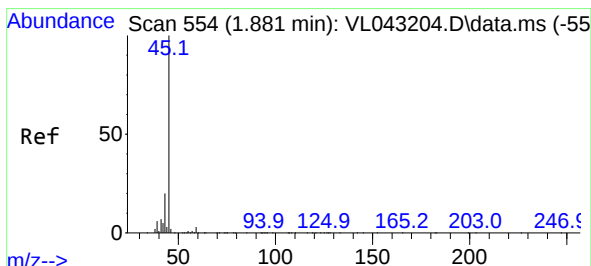
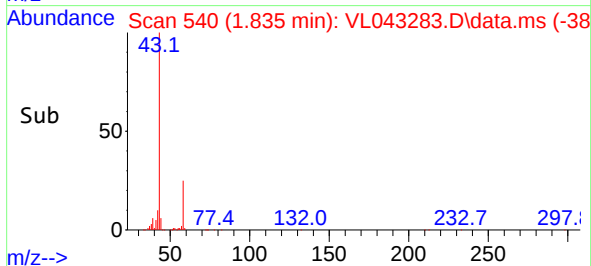
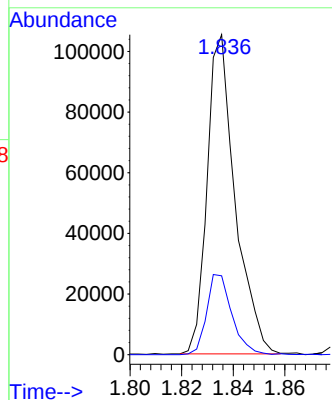
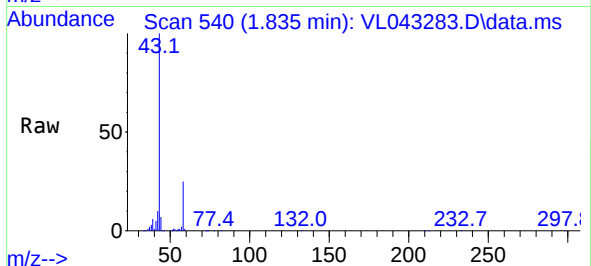
#15
Acetone
Concen: 5.375 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 43 Resp: 79460
Ion Ratio Lower Upper
43 100
58 23.1 20.7 31.1

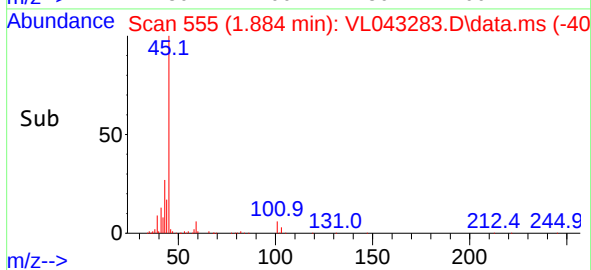
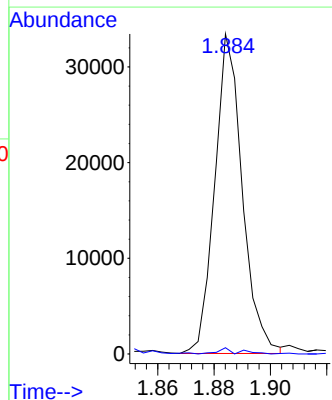
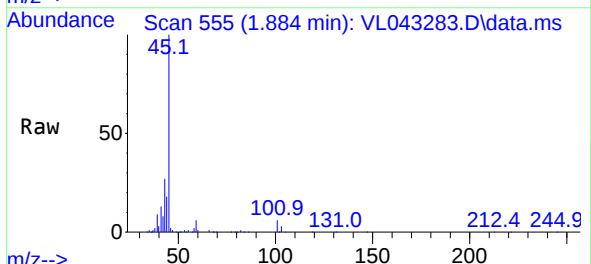
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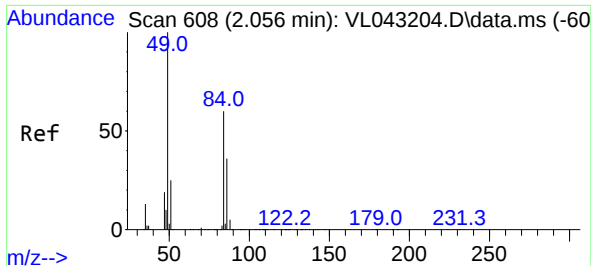
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#19
Isopropyl Alcohol
Concen: 2.714 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35

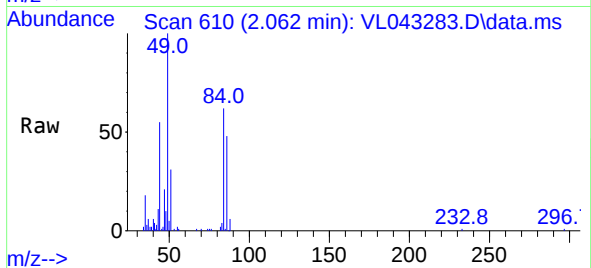
Tgt Ion: 45 Resp: 22670
Ion Ratio Lower Upper
45 100
58 80.8 31.3 46.9





#20
Methylene Chloride
Concen: 0.623 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35

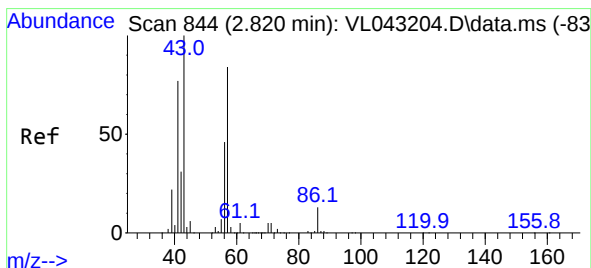
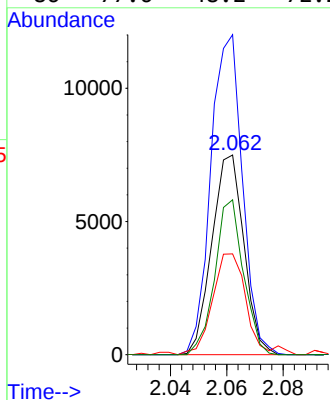
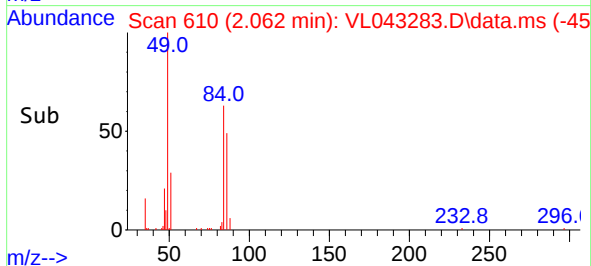
Instrument :
MSVOA_L
ClientSampleId :
IA2



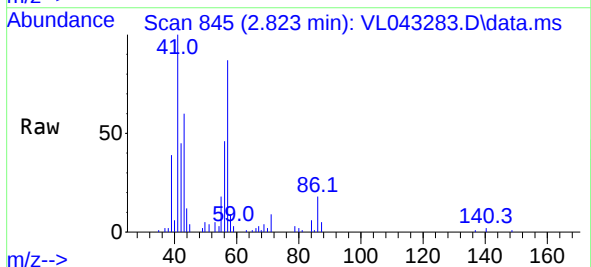
Tgt Ion: 84 Resp: 5919
Ion Ratio Lower Upper
84 100
49 160.2 132.9 199.3
51 50.5 34.8 52.2
86 77.6 48.2 72.2#

Manual Integrations
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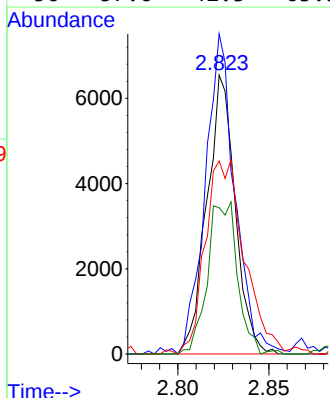
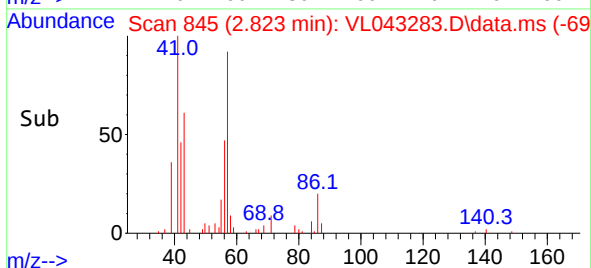
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

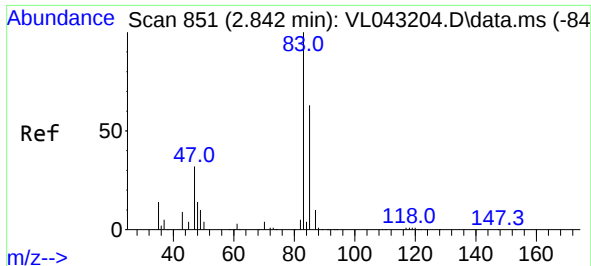


#26
Hexane
Concen: 0.508 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35



Tgt Ion: 57 Resp: 7099
Ion Ratio Lower Upper
57 100
41 124.5 74.6 111.8#
43 97.0 179.0 268.4#
56 57.6 42.3 63.5





#29

Chloroform

Concen: 0.141 ppbv

RT: 2.845 min Scan# 851

Delta R.T. 0.003 min

Lab File: VL043283.D

Acq: 24 Nov 2025 15:35

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tgt Ion: 83 Resp: 2804

Ion Ratio Lower Upper

83 100

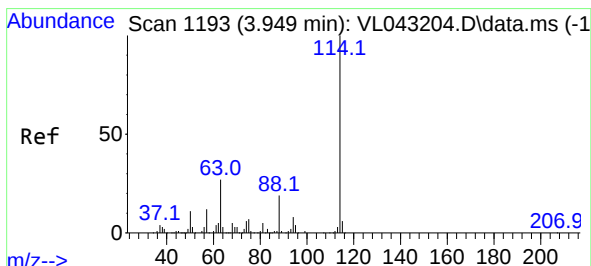
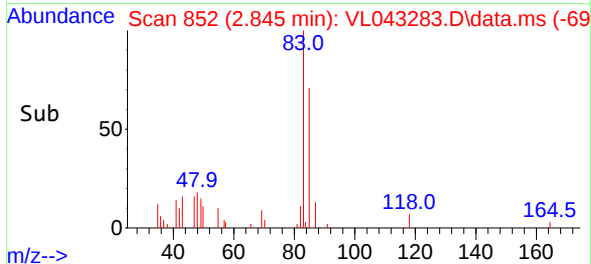
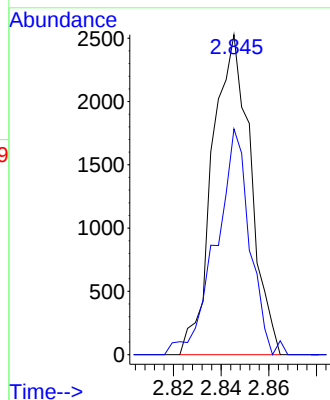
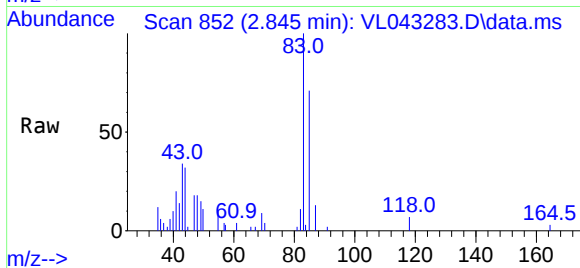
85 64.4 50.5 75.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/25/2025

Supervised By :Mahesh Dadoda 11/25/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. 0.003 min

Lab File: VL043283.D

Acq: 24 Nov 2025 15:35

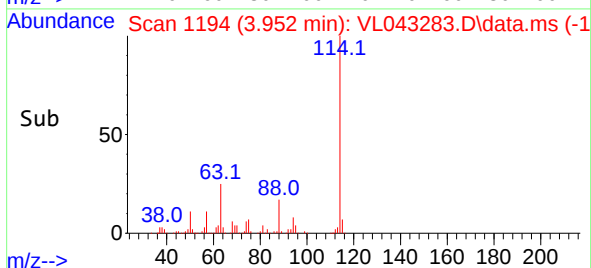
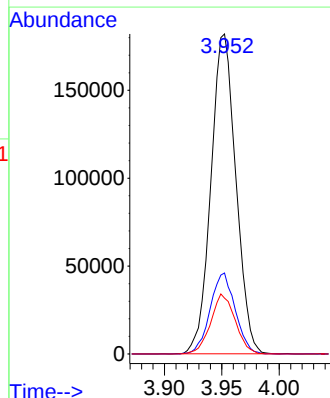
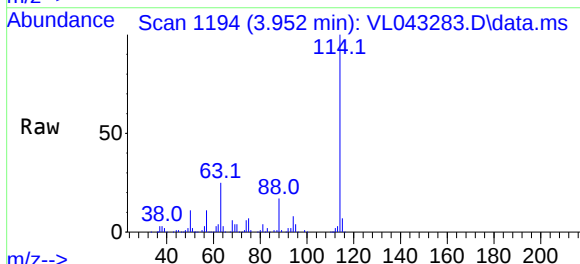
Tgt Ion:114 Resp: 274861

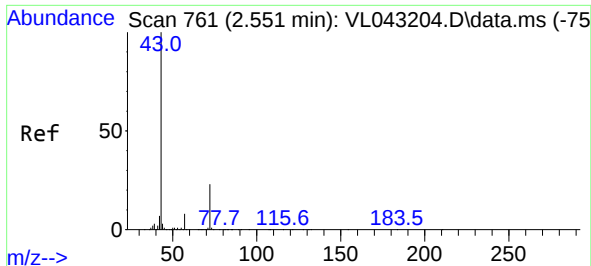
Ion Ratio Lower Upper

114 100

63 25.5 21.0 31.6

88 18.5 14.9 22.3





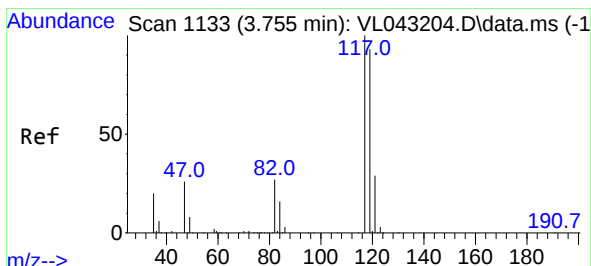
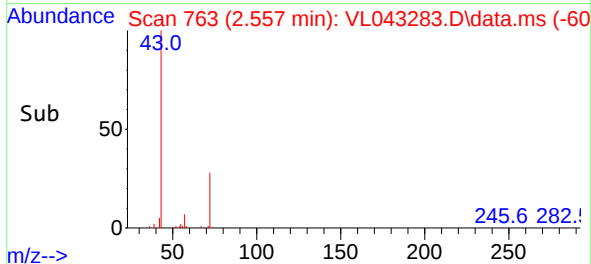
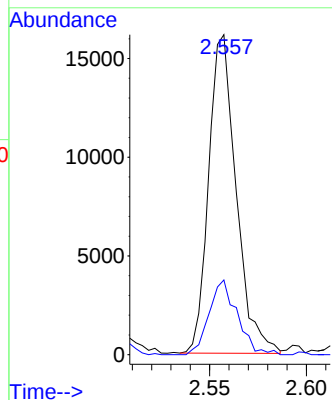
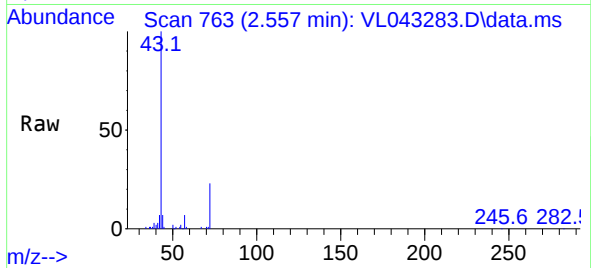
#34
2-Butanone
Concen: 0.821 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.006 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 43 Resp: 1593
Ion Ratio Lower Upper
43 100
72 24.3 18.1 27.1

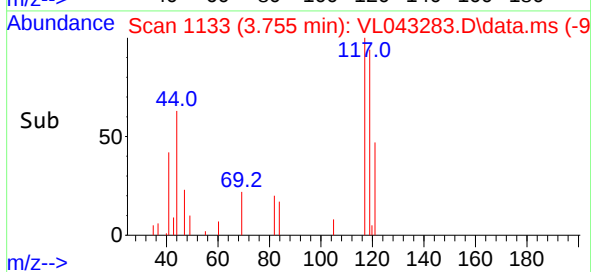
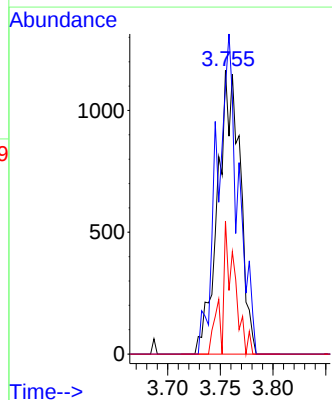
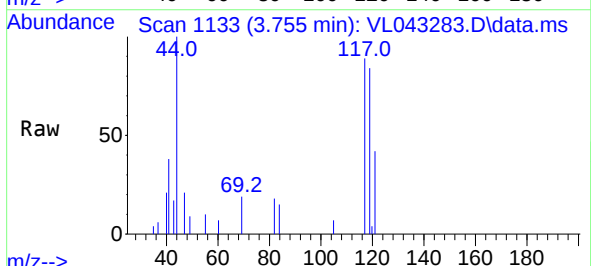
Manual Integrations
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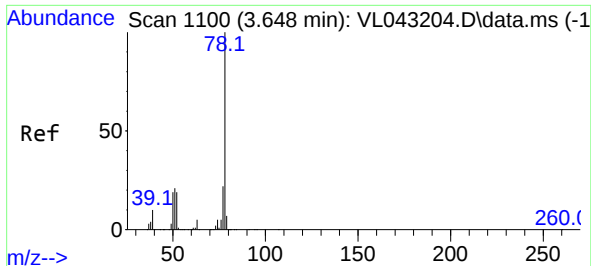
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#35
Carbon Tetrachloride
Concen: 0.083 ppbv m
RT: 3.755 min Scan# 1133
Delta R.T. -0.000 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35

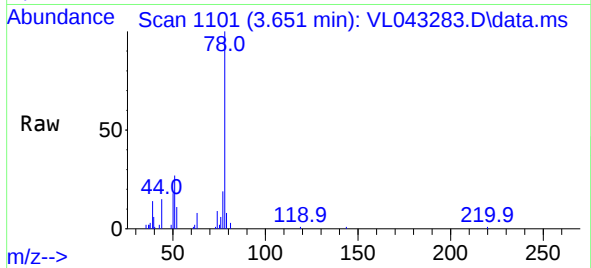
Tgt Ion:117 Resp: 1729
Ion Ratio Lower Upper
117 100
119 94.3 74.6 112.0
121 46.9 23.2 34.8#





#36
Benzene
Concen: 0.339 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.003 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35

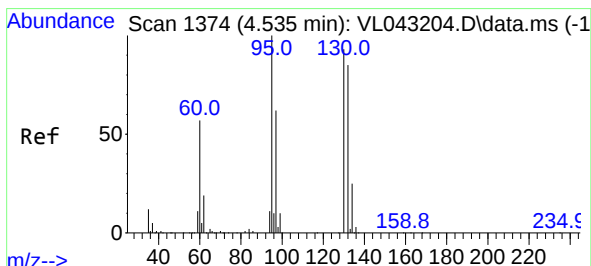
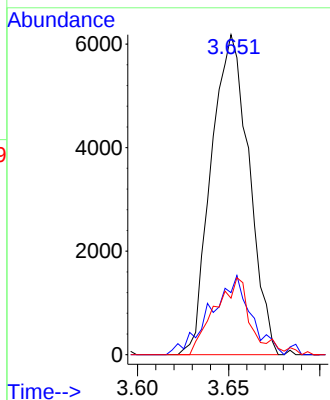
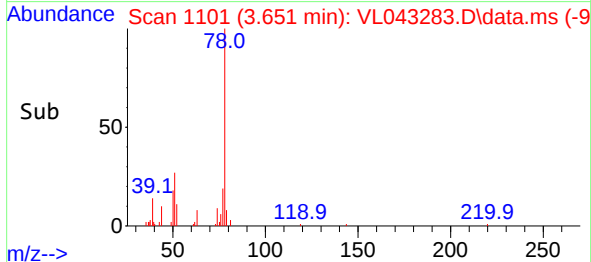
Instrument :
MSVOA_L
ClientSampleId :
IA2



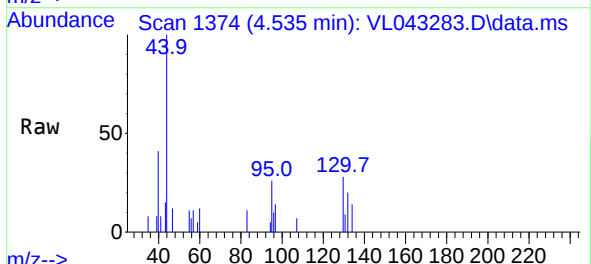
Tgt Ion: 78 Resp: 892
Ion Ratio Lower Upper
78 100
77 17.5 17.5 26.3
50 17.6 15.5 23.3

Manual Integrations
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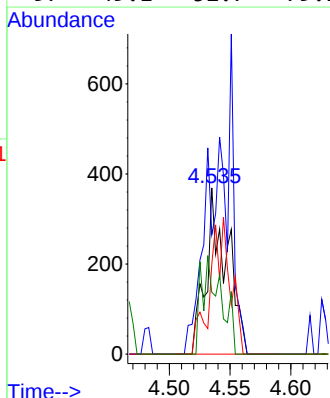
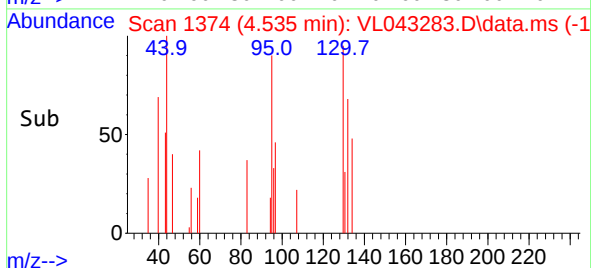
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

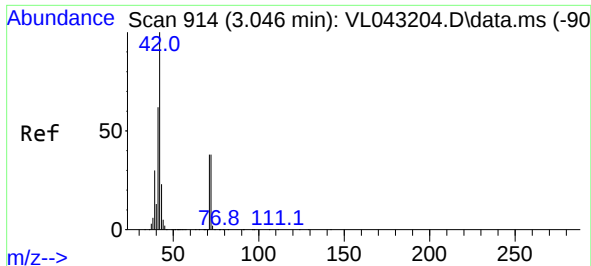


#38
Trichloroethene
Concen: 0.044 ppbv m
RT: 4.535 min Scan# 1374
Delta R.T. -0.000 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35



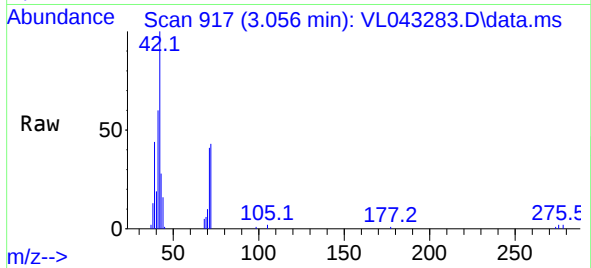
Tgt Ion:130 Resp: 451
Ion Ratio Lower Upper
130 100
95 95.0 85.7 128.5
132 71.7 73.4 110.0#
97 49.1 52.7 79.1#





#41
Tetrahydrofuran
Concen: 0.564 ppbv
RT: 3.056 min Scan# 914
Delta R.T. 0.010 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35

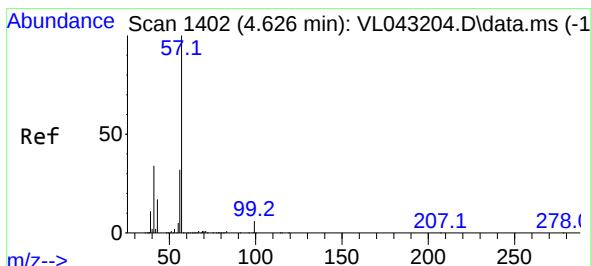
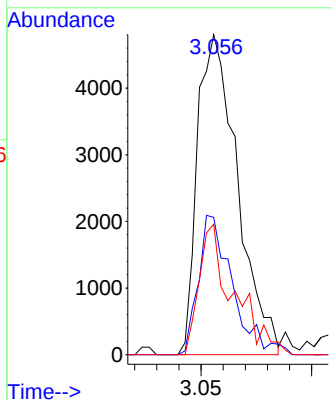
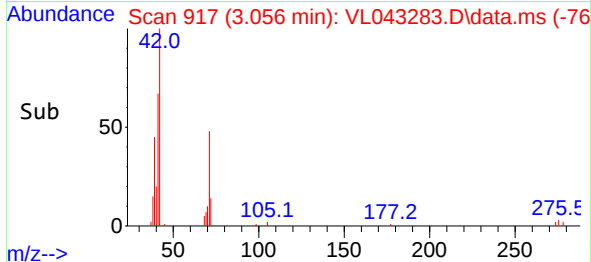
Instrument :
MSVOA_L
ClientSampleId :
IA2



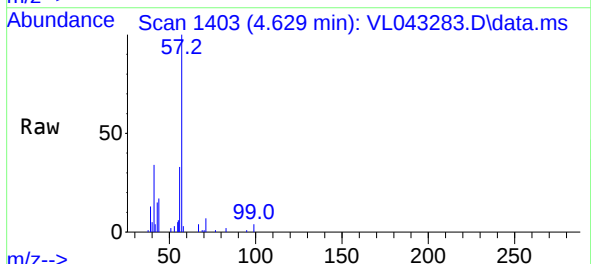
Tgt Ion: 42 Resp: 6044
Ion Ratio Lower Upper
42 100
72 37.0 30.6 46.0
71 35.0 30.5 45.7

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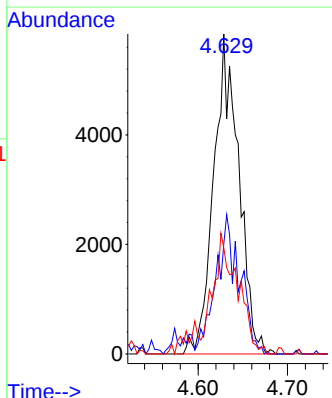
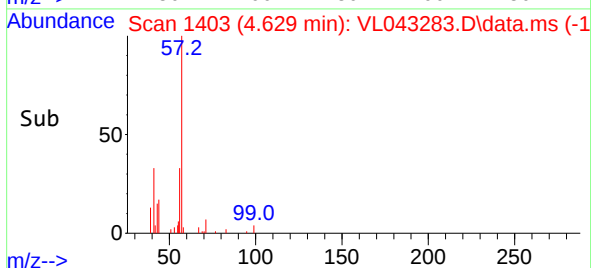
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

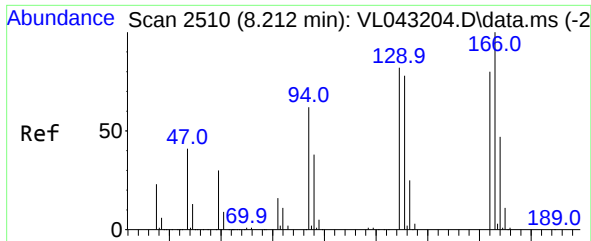


#44
2,2,4-Trimethylpentane
Concen: 0.250 ppbv m
RT: 4.629 min Scan# 1403
Delta R.T. 0.003 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35



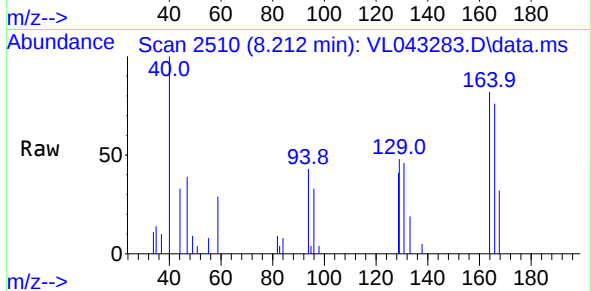
Tgt Ion: 57 Resp: 11320
Ion Ratio Lower Upper
57 100
41 0.0 28.0 42.0#
56 42.2 25.6 38.4#





#52
Tetrachloroethene
Concen: 0.162 ppbv m
RT: 8.212 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35

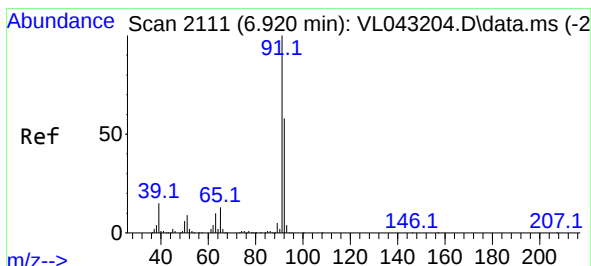
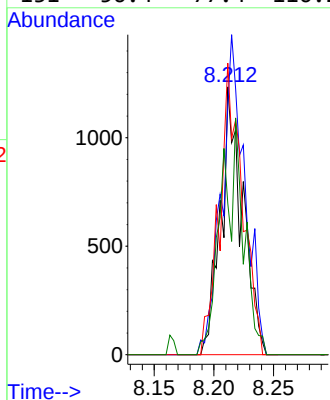
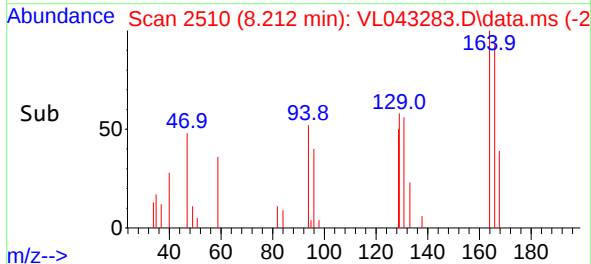
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion:164 Resp: 1588
Ion Ratio Lower Upper
164 100
166 92.9 99.4 149.2
129 58.4 81.8 122.8
131 56.4 77.4 116.2#

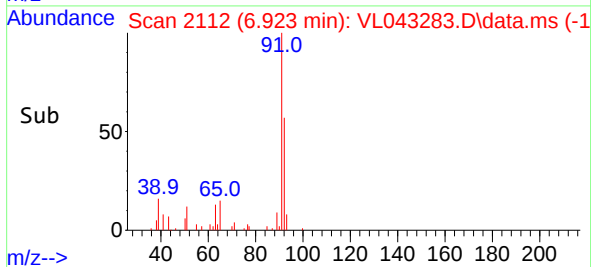
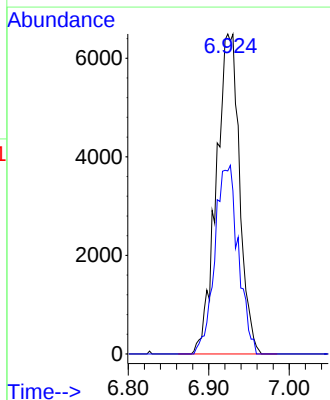
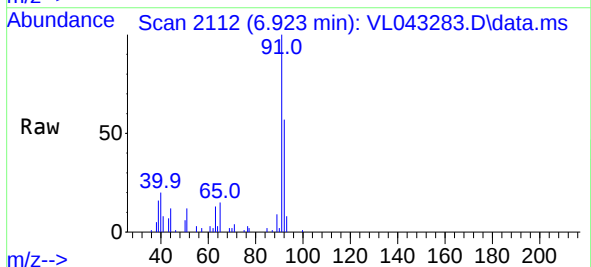
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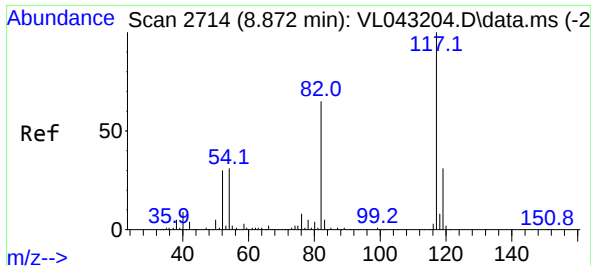
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#53
Toluene
Concen: 0.417 ppbv m
RT: 6.923 min Scan# 2112
Delta R.T. 0.003 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35

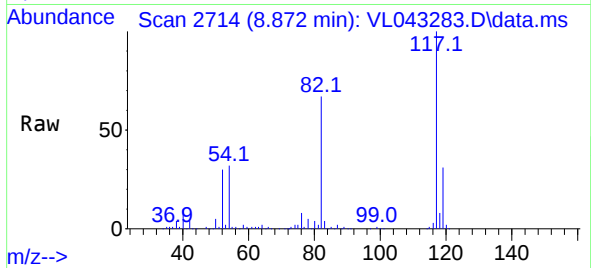
Tgt Ion: 91 Resp: 13011
Ion Ratio Lower Upper
91 100
92 0.0 47.4 71.0#





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 210700
Delta R.T. -0.000 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35

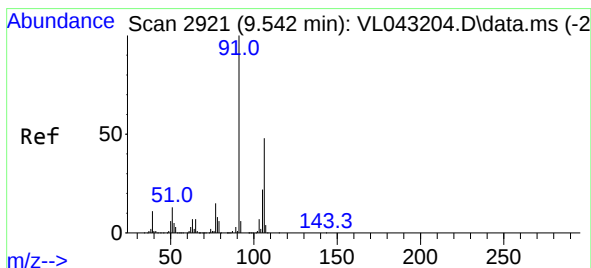
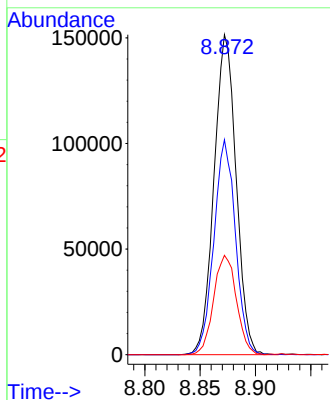
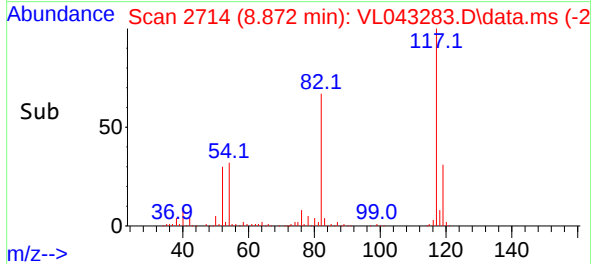
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion:117 Resp: 210700
Ion Ratio Lower Upper
117 100
82 65.5 56.1 84.1
119 32.1 25.0 37.6

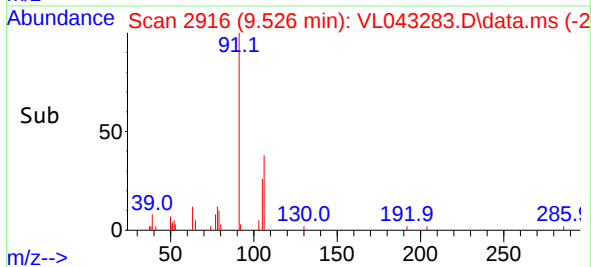
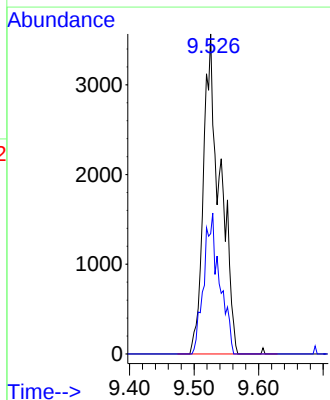
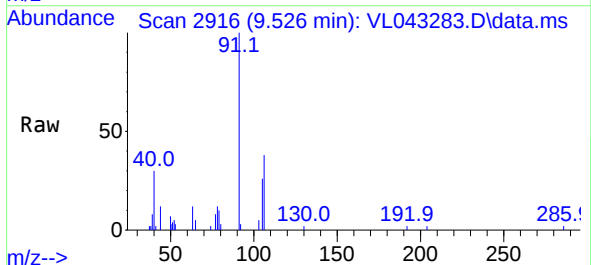
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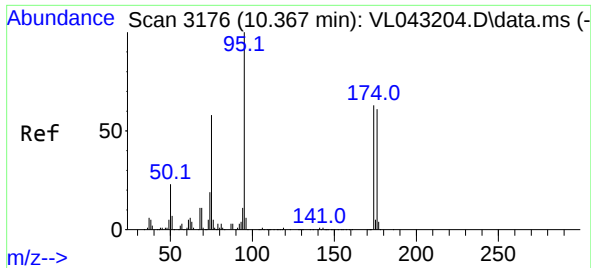
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#59
m/p-Xylene
Concen: 0.198 ppbv m
RT: 9.526 min Scan# 2916
Delta R.T. -0.016 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35

Tgt Ion: 91 Resp: 6433
Ion Ratio Lower Upper
91 100
106 0.0 36.1 54.1#





#68
1-Bromo-4-Fluorobenzene
Concen: 9.724 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. -0.000 min
Lab File: VL043283.D
Acq: 24 Nov 2025 15:35

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 95 Resp: 150182
Ion Ratio Lower Upper
95 100
174 67.9 50.2 75.2
175 4.8 4.1 6.1

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

