

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
 Data File : VL043163.D
 Acq On : 06 Nov 2025 12:44
 Operator : SY/MD
 Sample : Q3557-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 141-AA-1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
 Supervised By :Mahesh Dadoda 11/10/2025

Quant Time: Nov 07 00:21:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	114655	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	343053	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	295343	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	233984	10.193	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	8126	0.499	ppbv	98
3) Chlorodifluoromethane	1.476	51	5049m	0.286	ppbv	
4) Chloromethane	1.534	50	3050	0.472	ppbv	91
9) Propene	1.489	41	2649	0.339	ppbv	92
11) Trichlorofluoromethane	1.881	101	4157	0.261	ppbv	95
13) Ethanol	1.722	45	7183	2.483	ppbv #	38
15) Acetone	1.835	43	40561	2.625	ppbv	99
19) Isopropyl Alcohol	1.887	45	8851	0.920	ppbv #	1
20) Methylene Chloride	2.062	84	4671	0.765	ppbv	95
26) Hexane	2.826	57	13632	0.772	ppbv #	42
34) 2-Butanone	2.560	43	5042	0.219	ppbv	99
35) Carbon Tetrachloride	3.758	117	2007m	0.081	ppbv	
36) Benzene	3.651	78	3660m	0.113	ppbv	
53) Toluene	6.936	91	4910m	0.128	ppbv	

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

Manual Integrations

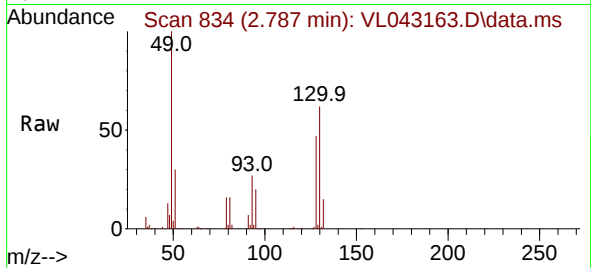
Quant Time: Nov 07 00:21:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

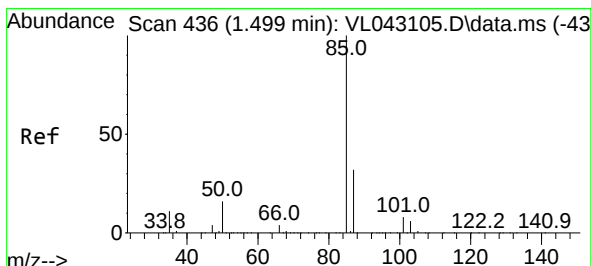
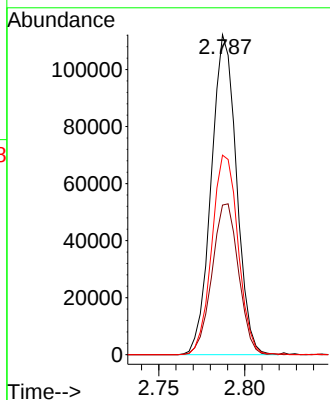
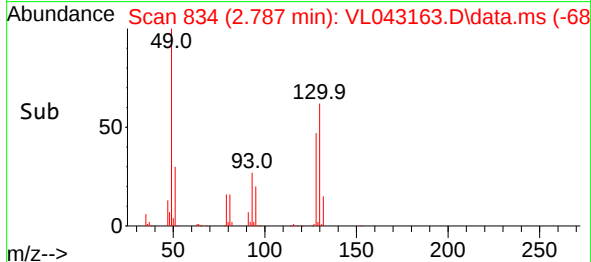
Instrument :
MSVOA_L
ClientSampleId :
141-AA-1



Tgt Ion: 49 Resp: 11465
Ion Ratio Lower Upper
49 100
128 49.6 24.4 73.4
130 64.9 31.0 93.0

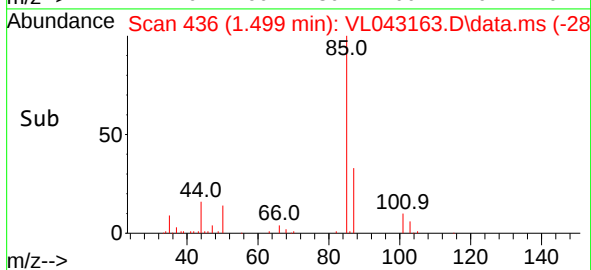
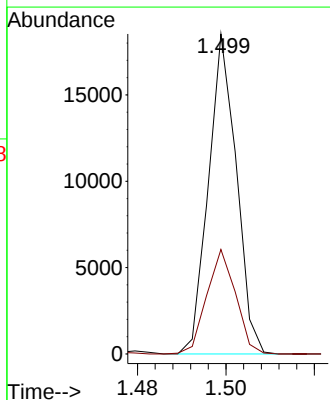
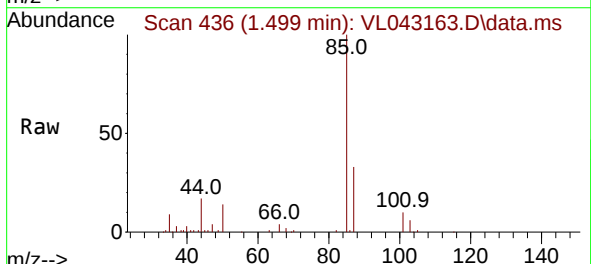
Manual Integrations
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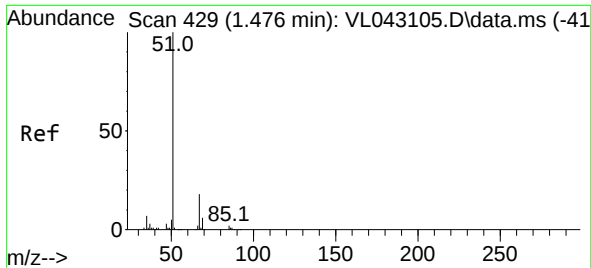
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#2
Dichlorodifluoromethane
Concen: 0.499 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

Tgt Ion: 85 Resp: 8126
Ion Ratio Lower Upper
85 100
87 32.7 25.3 37.9





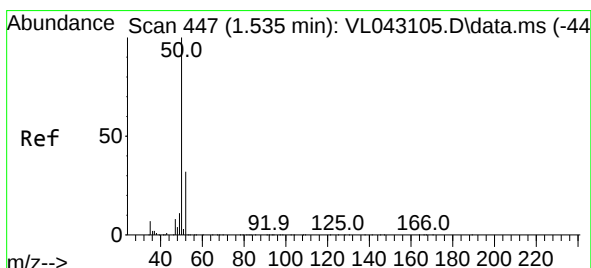
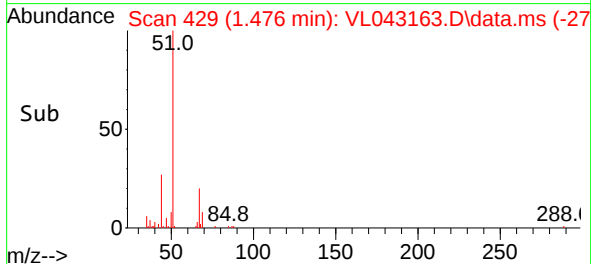
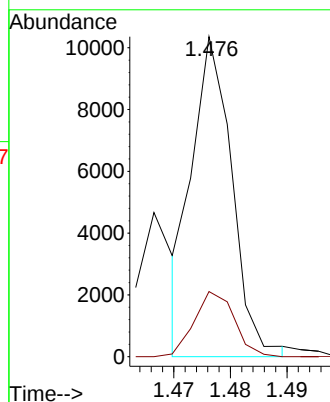
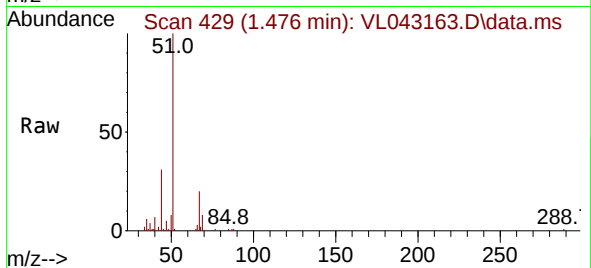
#3
Chlorodifluoromethane
Concen: 0.286 ppbv m
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

Instrument :
MSVOA_L
ClientSampleId :
141-AA-1

Tgt Ion: 51 Resp: 5049
Ion Ratio Lower Upper
51 100
67 21.0 15.1 22.7

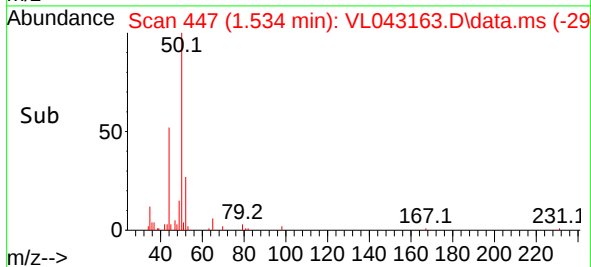
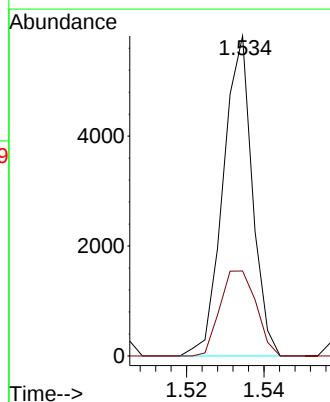
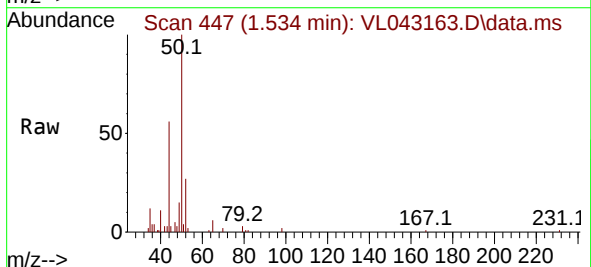
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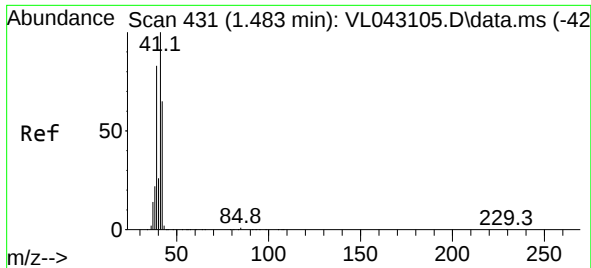
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#4
Chloromethane
Concen: 0.472 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

Tgt Ion: 50 Resp: 3050
Ion Ratio Lower Upper
50 100
52 26.5 25.2 37.8





#9

Propene

Concen: 0.339 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL043163.D

Acq: 06 Nov 2025 12:44

Instrument :

MSVOA_L

ClientSampleId :

141-AA-1

Tgt Ion: 41 Resp: 2649

Ion Ratio Lower Upper

41 100

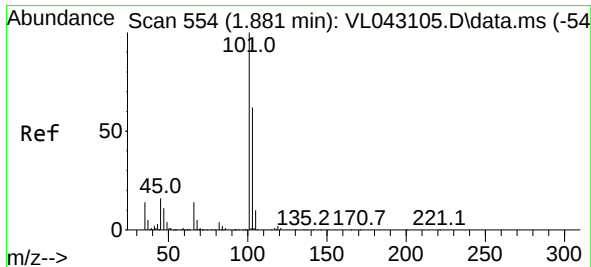
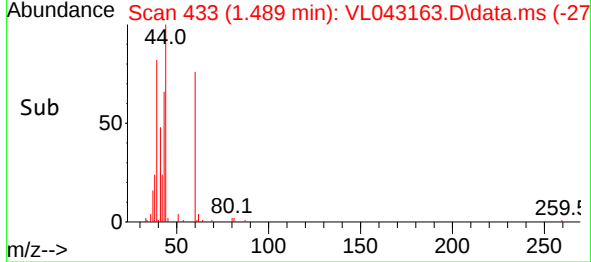
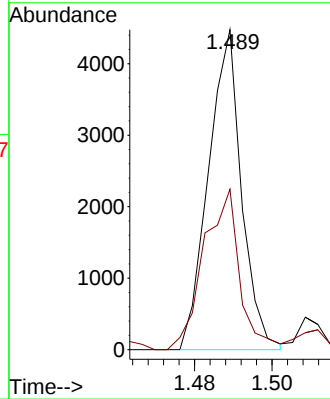
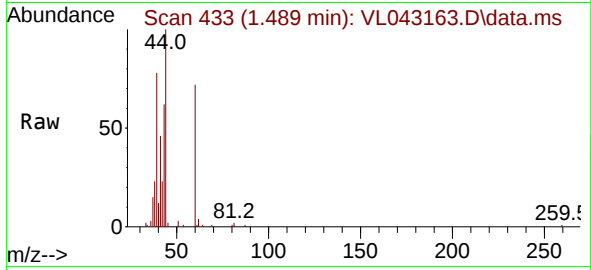
42 62.0 55.1 82.7

Manual Integrations

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#11

Trichlorofluoromethane

Concen: 0.261 ppbv

RT: 1.881 min Scan# 554

Delta R.T. -0.000 min

Lab File: VL043163.D

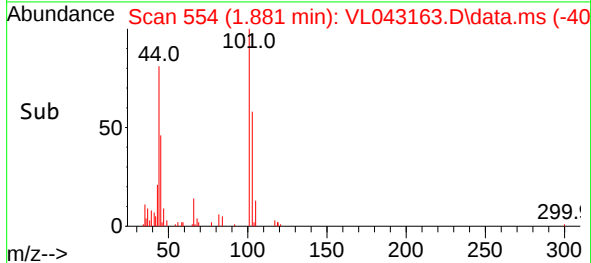
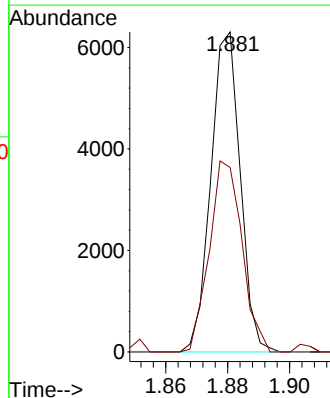
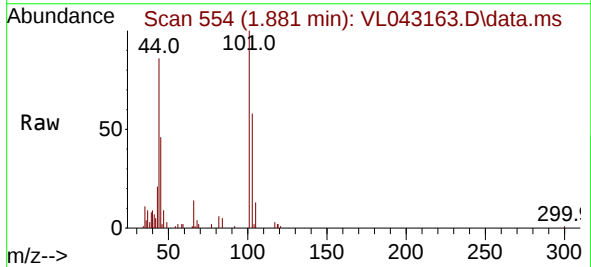
Acq: 06 Nov 2025 12:44

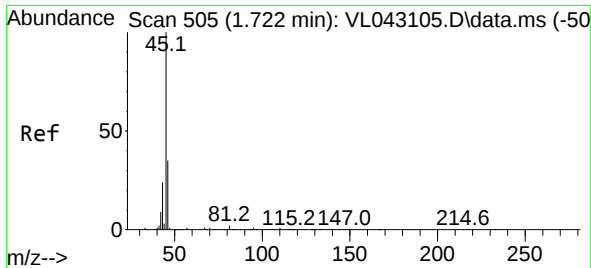
Tgt Ion:101 Resp: 4157

Ion Ratio Lower Upper

101 100

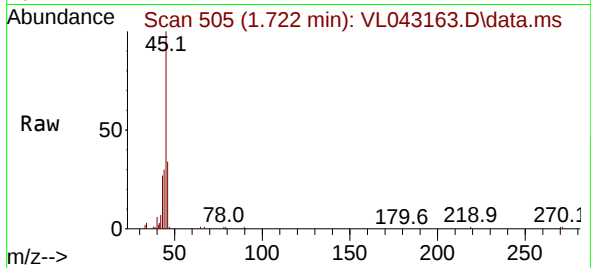
103 57.6 49.3 73.9





#13
Ethanol
Concen: 2.483 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

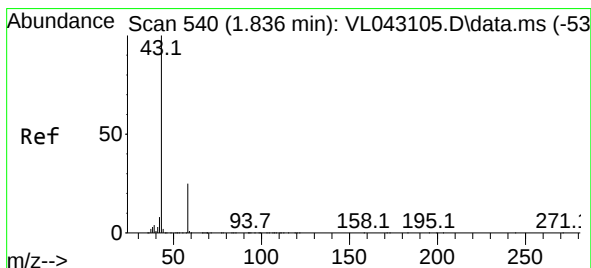
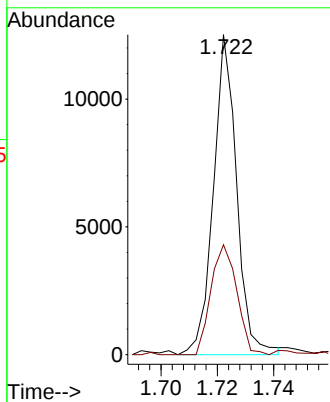
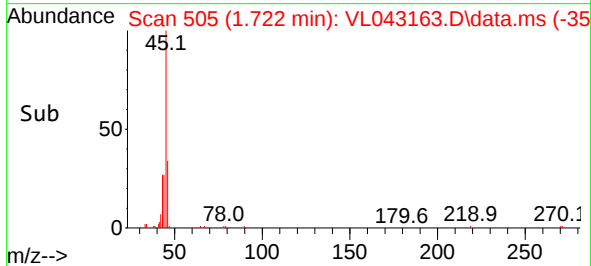
Instrument :
MSVOA_L
ClientSampleId :
141-AA-1



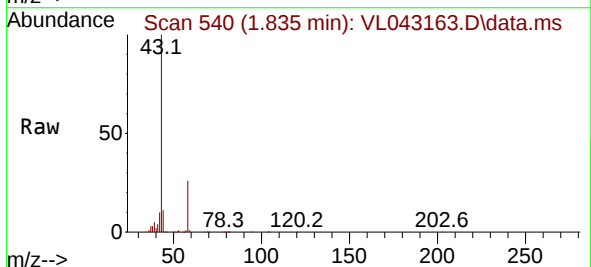
Tgt Ion: 45 Resp: 7183
Ion Ratio Lower Upper
45 100
46 0.0 14.7 58.9

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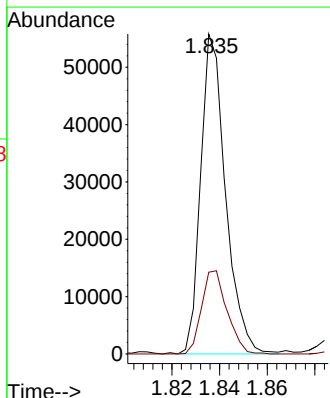
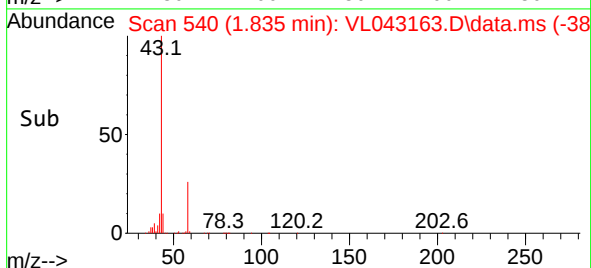
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

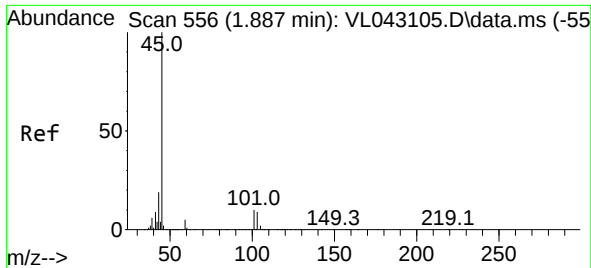


#15
Acetone
Concen: 2.625 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44



Tgt Ion: 43 Resp: 40561
Ion Ratio Lower Upper
43 100
58 26.6 20.8 31.2





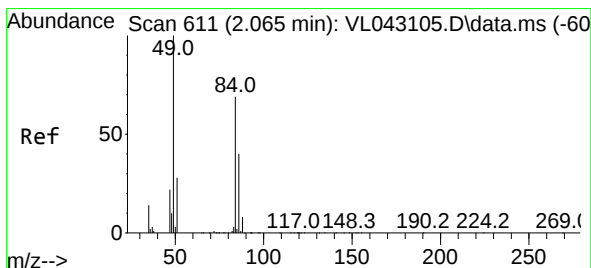
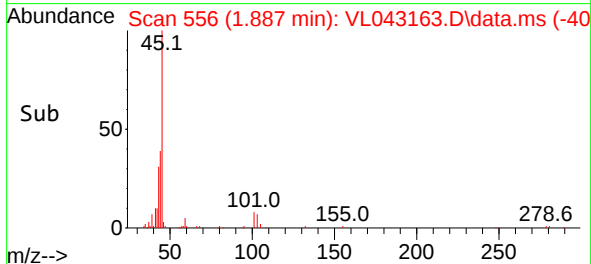
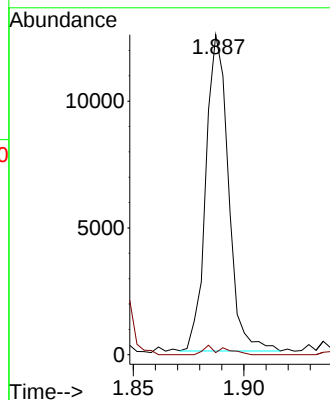
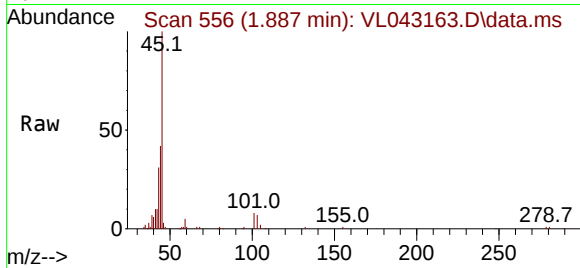
#19
Isopropyl Alcohol
Concen: 0.920 ppbv
RT: 1.887 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

Instrument :
MSVOA_L
ClientSampleId :
141-AA-1

Tgt Ion: 45 Resp: 885
Ion Ratio Lower Upper
45 100
58 121.8 31.3 46.9

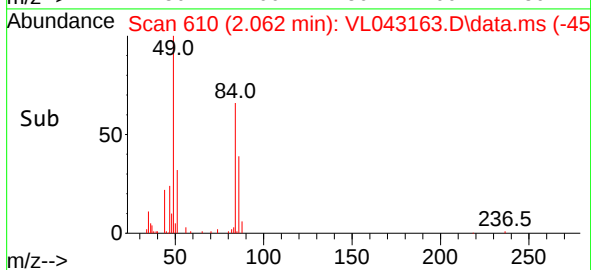
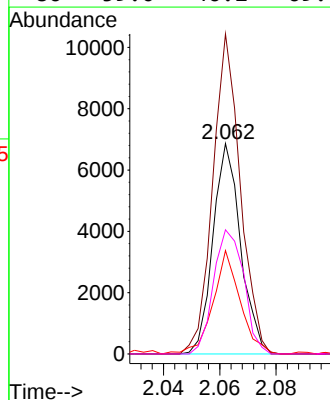
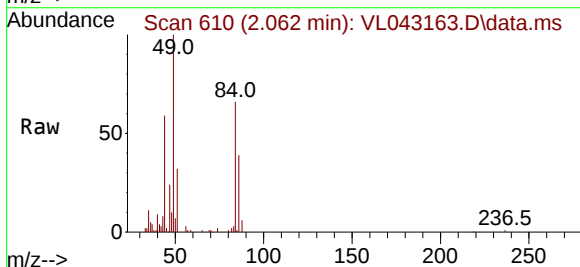
Manual Integrations
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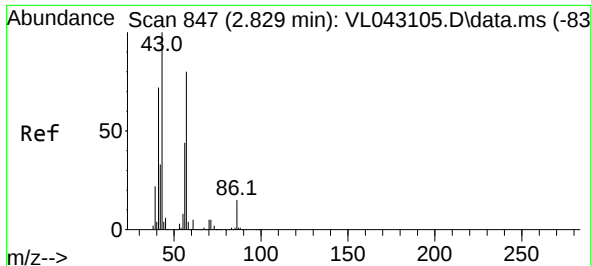
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#20
Methylene Chloride
Concen: 0.765 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

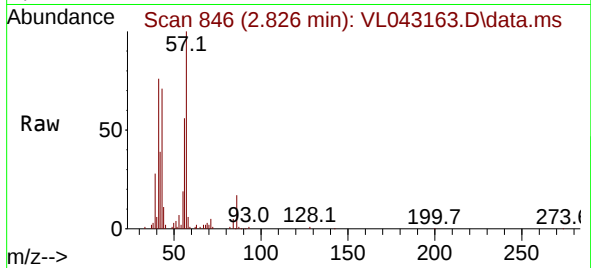
Tgt Ion: 84 Resp: 4671
Ion Ratio Lower Upper
84 100
49 152.1 116.6 175.0
51 49.1 34.8 52.2
86 59.0 46.2 69.4





#26
Hexane
Concen: 0.772 ppbv
RT: 2.826 min Scan# 847
Delta R.T. -0.003 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

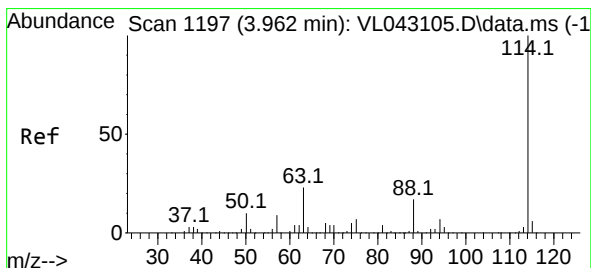
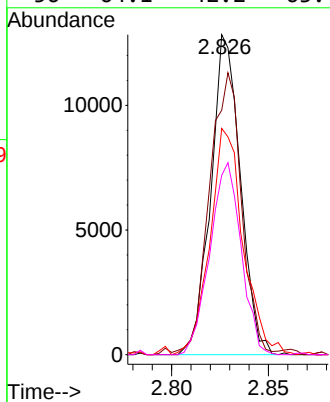
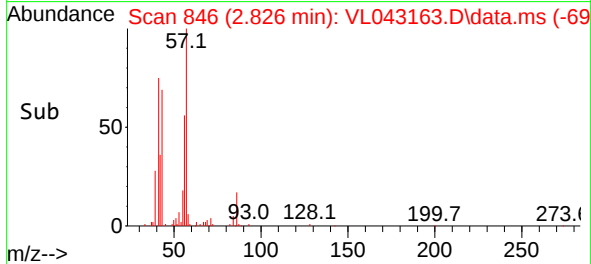
Instrument :
MSVOA_L
ClientSampleId :
141-AA-1



Tgt Ion: 57 Resp: 1363
Ion Ratio Lower Upper
57 100
41 98.1 71.4 107.0
43 80.4 178.5 267.7
56 64.1 42.2 63.4

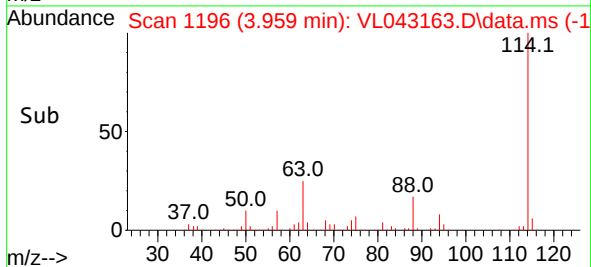
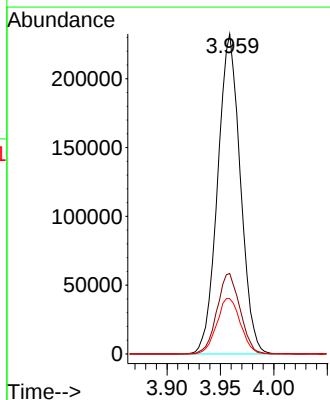
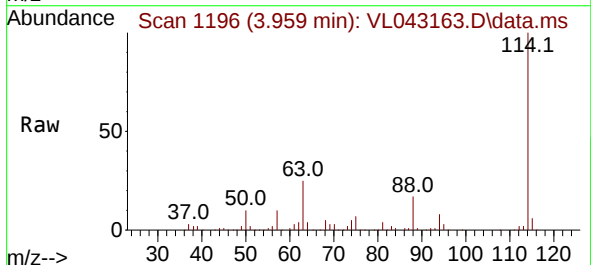
Manual Integrations
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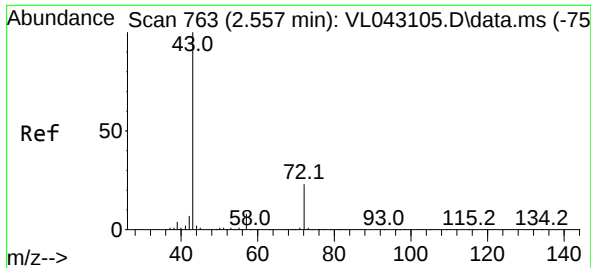
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.003 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

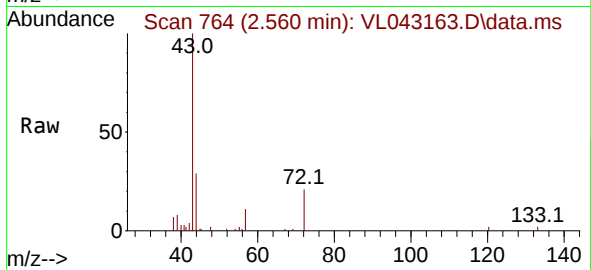
Tgt Ion:114 Resp: 343053
Ion Ratio Lower Upper
114 100
63 25.6 19.3 28.9
88 18.1 13.9 20.9





#34
2-Butanone
Concen: 0.219 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

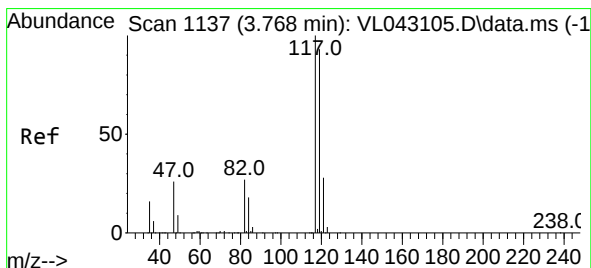
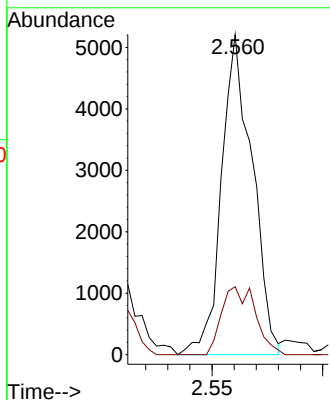
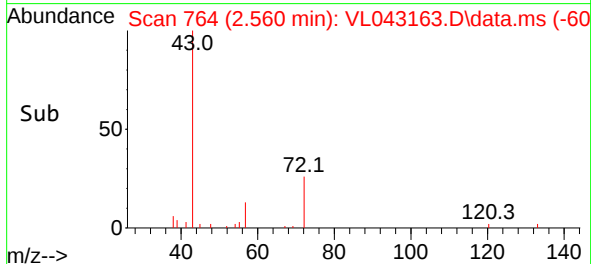
Instrument :
MSVOA_L
ClientSampleId :
141-AA-1



Tgt Ion: 43 Resp: 504
Ion Ratio Lower Upper
43 100
72 23.3 18.4 27.6

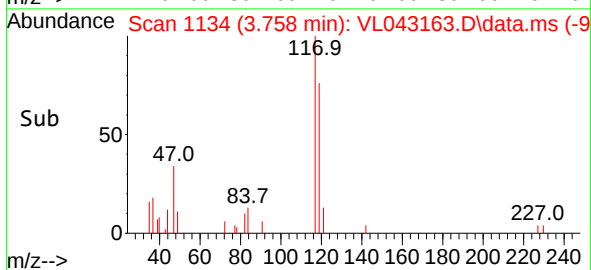
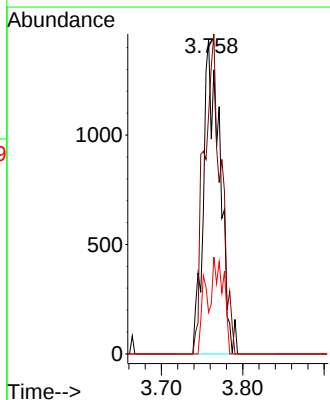
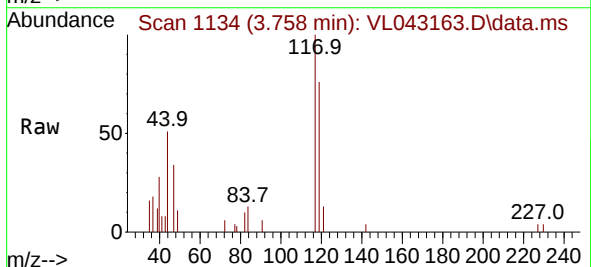
Manual Integrations
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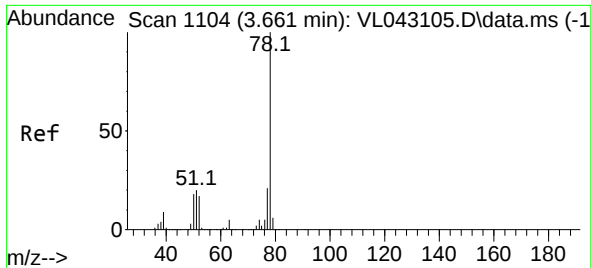
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#35
Carbon Tetrachloride
Concen: 0.081 ppbv m
RT: 3.758 min Scan# 1134
Delta R.T. -0.010 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

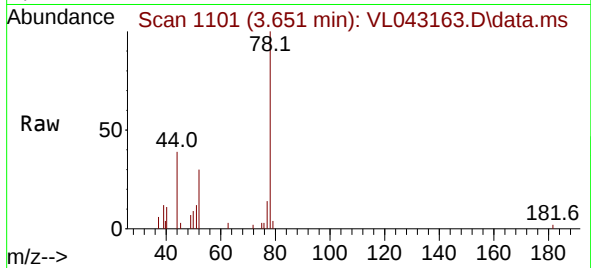
Tgt Ion:117 Resp: 2007
Ion Ratio Lower Upper
117 100
119 75.9 74.1 111.1
121 13.2 22.2 33.2#





#36
Benzene
Concen: 0.113 ppbv m
RT: 3.651 min Scan# 1101
Delta R.T. -0.010 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

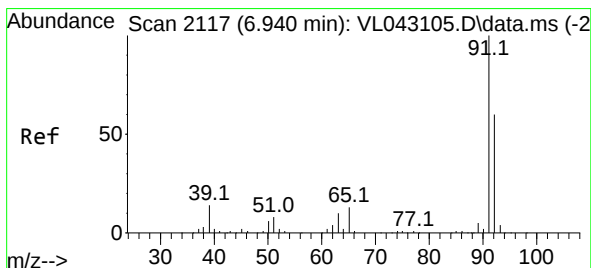
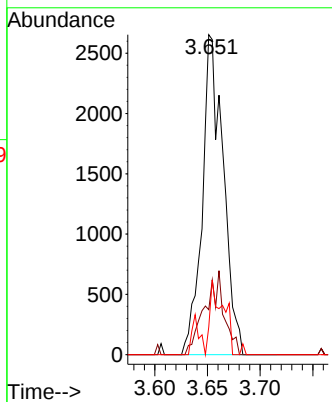
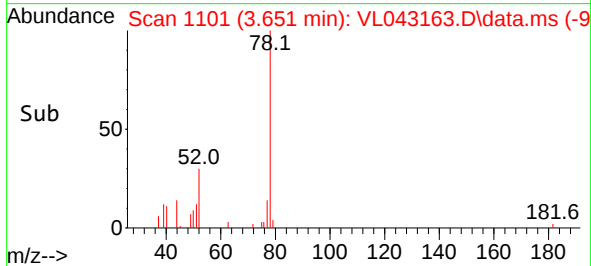
Instrument :
MSVOA_L
ClientSampleId :
141-AA-1



Tgt Ion: 78 Resp: 3660
Ion Ratio Lower Upper
78 100
77 14.0 17.0 25.6
50 8.6 14.6 22.0

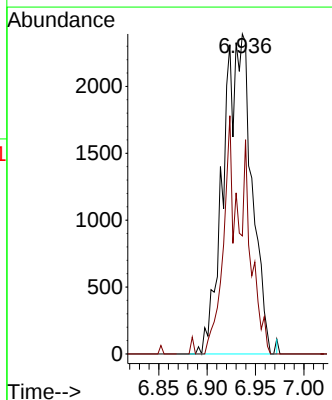
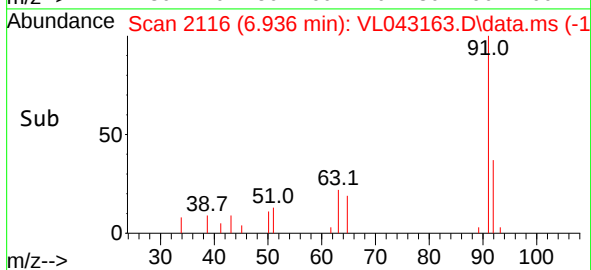
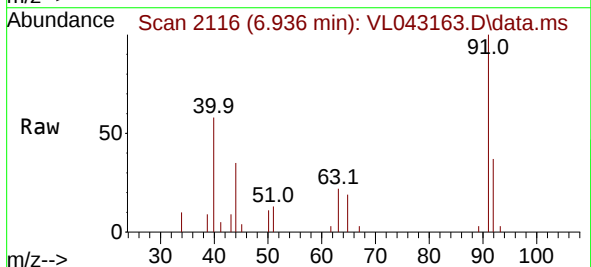
Manual Integrations
APPROVED

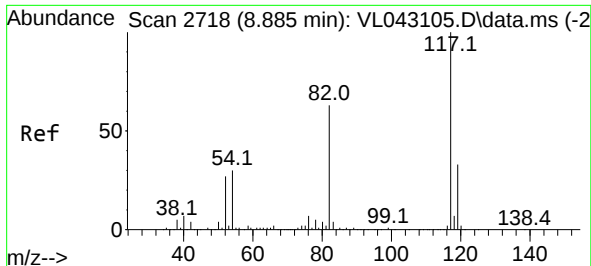
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#53
Toluene
Concen: 0.128 ppbv m
RT: 6.936 min Scan# 2116
Delta R.T. -0.003 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

Tgt Ion: 91 Resp: 4910
Ion Ratio Lower Upper
91 100
92 0.0 48.8 73.2





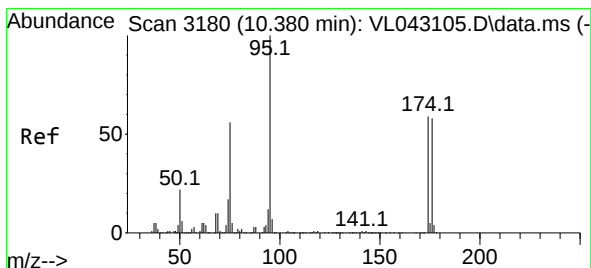
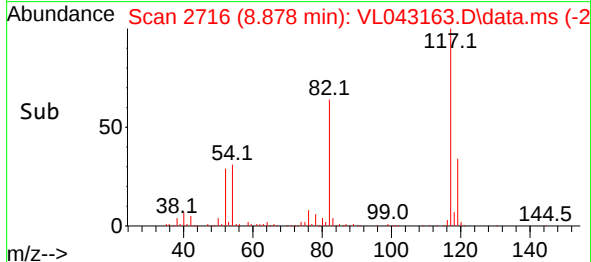
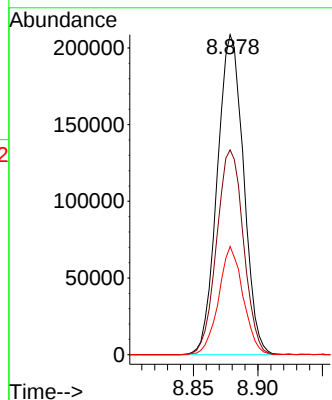
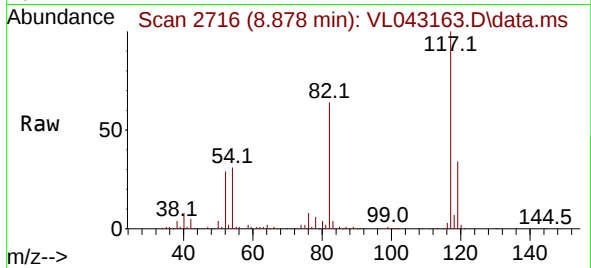
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

Instrument :
MSVOA_L
ClientSampleId :
141-AA-1

Tgt Ion:117 Resp: 29534
Ion Ratio Lower Upper
117 100
82 65.3 53.8 80.8
119 31.7 25.4 38.0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.193 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.007 min
Lab File: VL043163.D
Acq: 06 Nov 2025 12:44

Tgt Ion: 95 Resp: 233984
Ion Ratio Lower Upper
95 100
174 64.1 48.3 72.5
175 4.6 3.8 5.8

