

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
 Data File : VL043161.D
 Acq On : 06 Nov 2025 11:36
 Operator : SY/MD
 Sample : Q3556-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 131-IA1

Manual Integrations
 APPROVED

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

Quant Time: Nov 07 00:20:15 2025

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

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

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	117302	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	349960	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	295308	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	234219	10.204	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	7506	0.450	ppbv	99
3) Chlorodifluoromethane	1.476	51	4083m	0.226	ppbv	
4) Chloromethane	1.531	50	3813	0.577	ppbv	93
9) Propene	1.489	41	3516	0.439	ppbv #	80
11) Trichlorofluoromethane	1.878	101	4040	0.248	ppbv	86
13) Ethanol	1.722	45	11228	3.793	ppbv	92
15) Acetone	1.836	43	49828	3.152	ppbv	100
19) Isopropyl Alcohol	1.888	45	5602	0.569	ppbv #	1
20) Methylene Chloride	2.062	84	7591	1.215	ppbv	91
26) Hexane	2.829	57	27779	1.538	ppbv #	41
34) 2-Butanone	2.561	43	7360	0.313	ppbv	93
35) Carbon Tetrachloride	3.765	117	2190m	0.087	ppbv	
36) Benzene	3.655	78	4711	0.143	ppbv	95
53) Toluene	6.930	91	8680	0.222	ppbv	98

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

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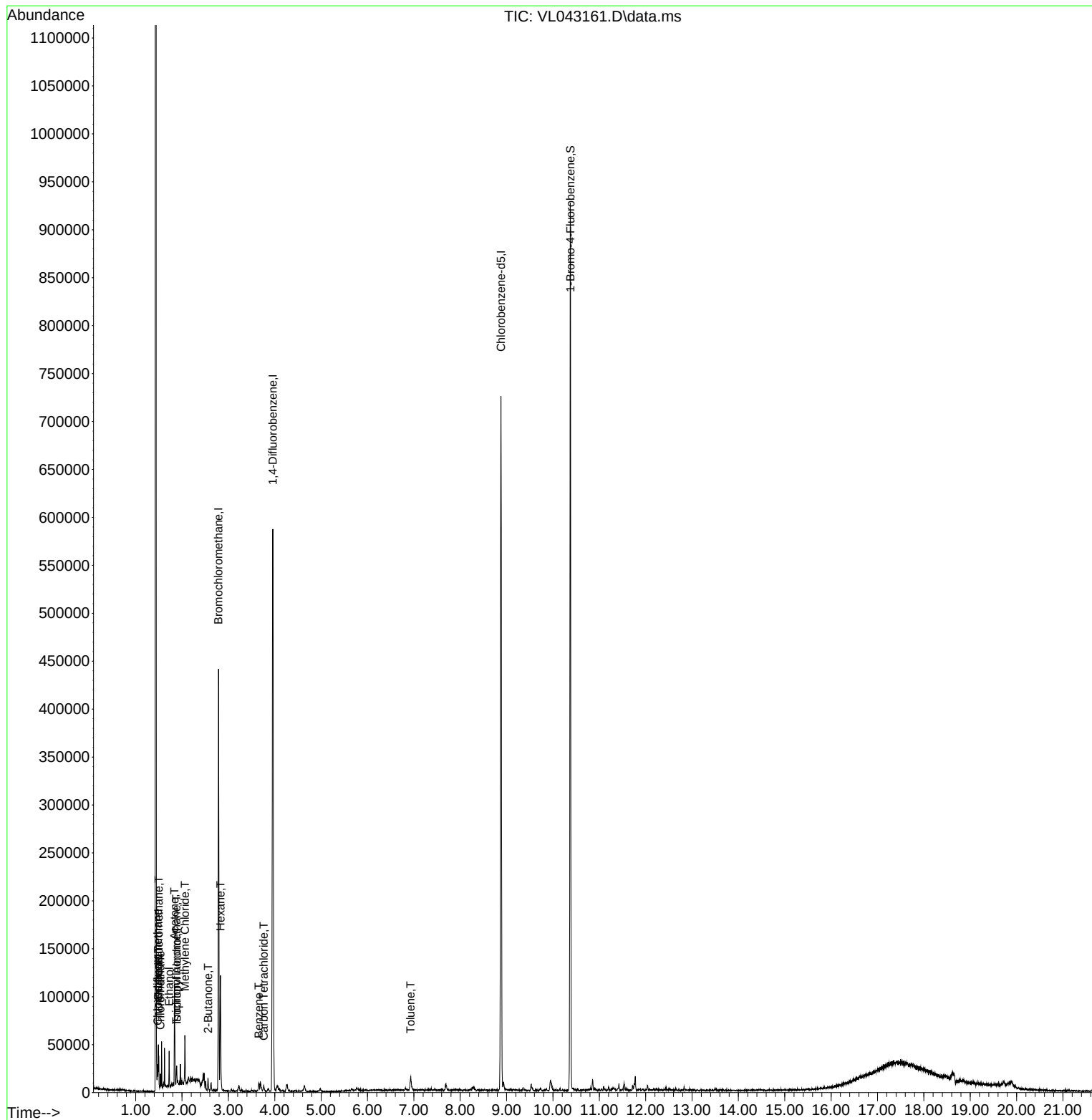
Quant Time: Nov 07 00:20:15 2025

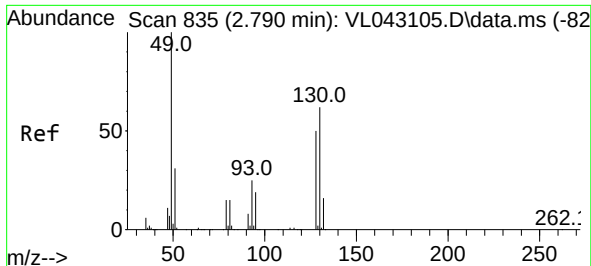
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

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

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

Response via : Initial Calibration





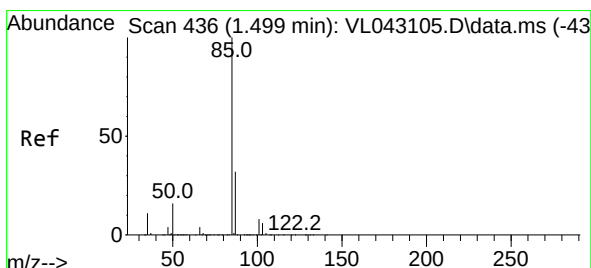
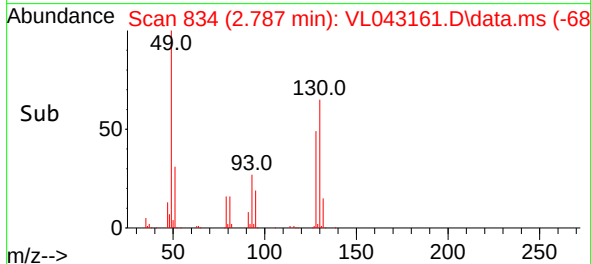
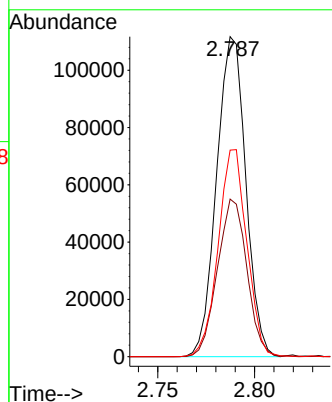
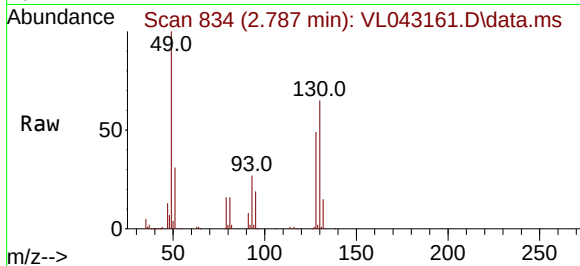
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL043161.D
Acq: 06 Nov 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
131-IA1

Tgt Ion: 49 Resp: 11730
Ion Ratio Lower Upper
49 100
128 49.6 24.4 73.4
130 63.6 31.0 93.0

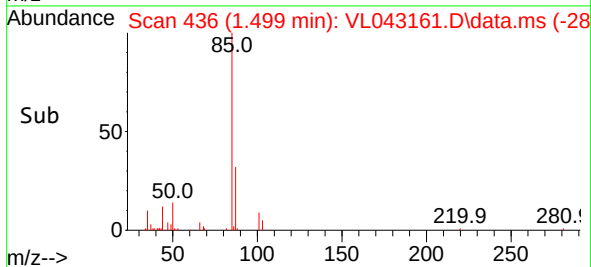
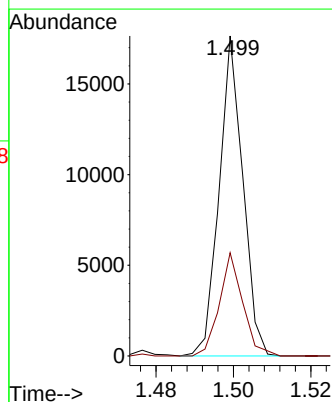
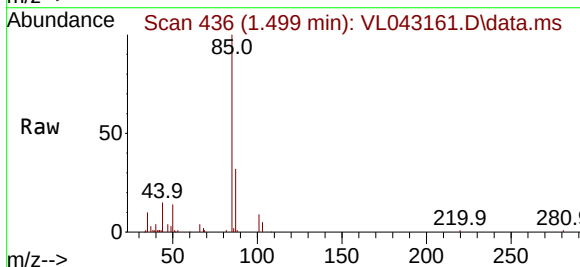
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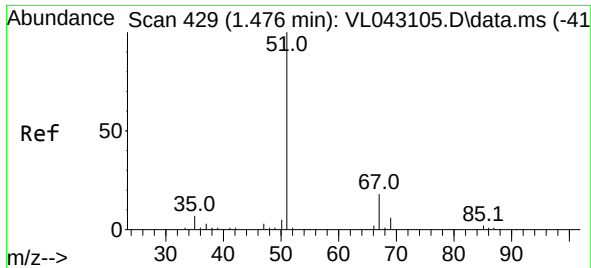
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#2
Dichlorodifluoromethane
Concen: 0.450 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL043161.D
Acq: 06 Nov 2025 11:36

Tgt Ion: 85 Resp: 7506
Ion Ratio Lower Upper
85 100
87 32.3 25.3 37.9





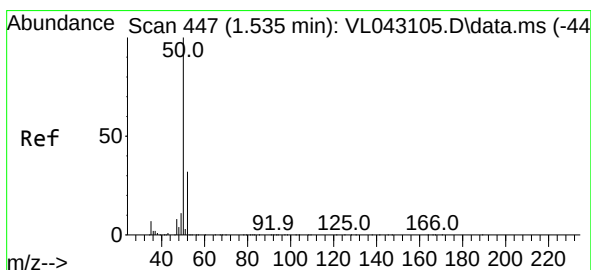
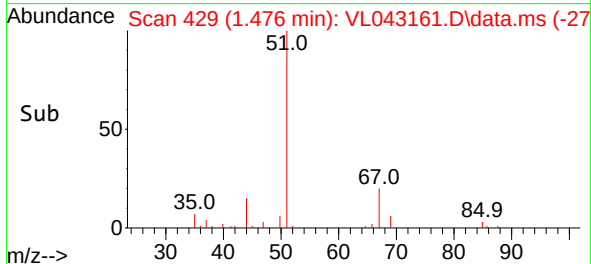
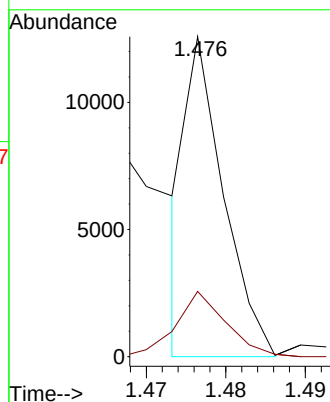
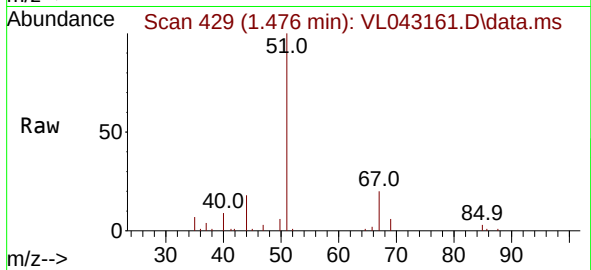
#3
Chlorodifluoromethane
Concen: 0.226 ppbv m
RT: 1.476 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL043161.D
Acq: 06 Nov 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
131-IA1

Tgt Ion: 51 Resp: 408
Ion Ratio Lower Upper
51 100
67 1.9 15.1 22.7

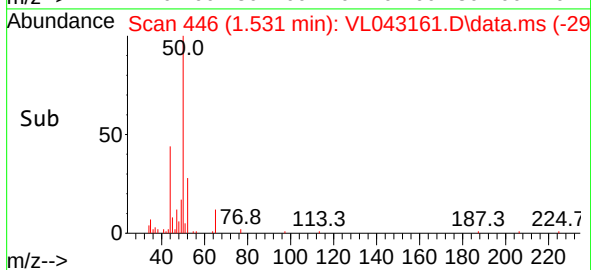
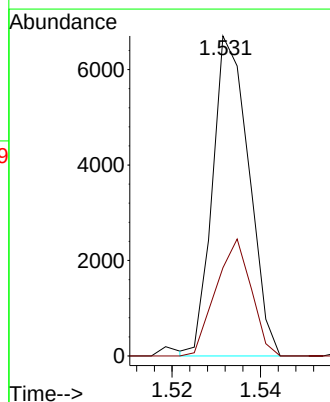
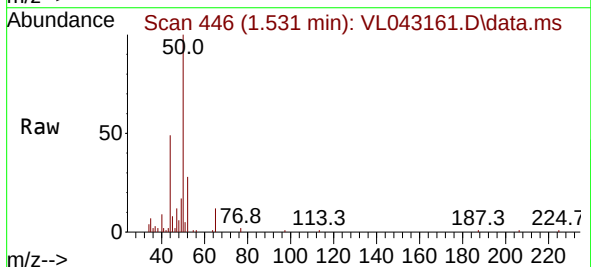
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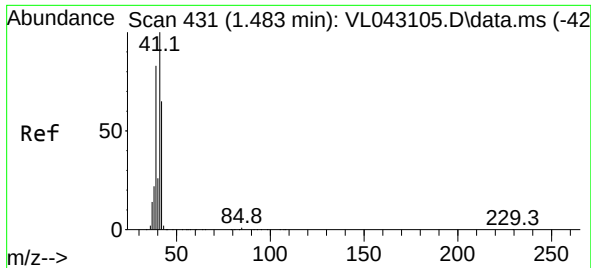
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#4
Chloromethane
Concen: 0.577 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.003 min
Lab File: VL043161.D
Acq: 06 Nov 2025 11:36

Tgt Ion: 50 Resp: 3813
Ion Ratio Lower Upper
50 100
52 27.6 25.2 37.8





#9

Propene

Concen: 0.439 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.007 min

Lab File: VL043161.D

Acq: 06 Nov 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

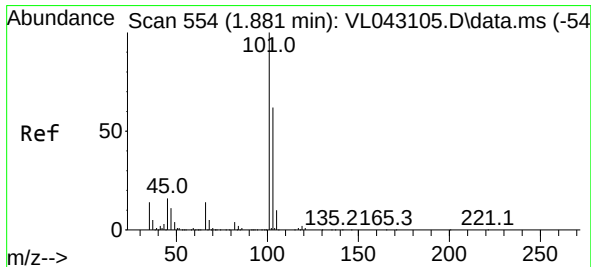
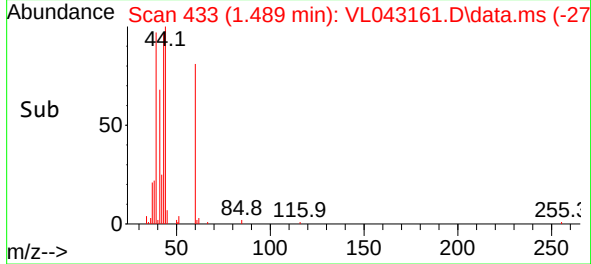
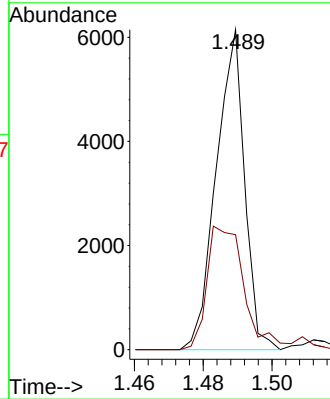
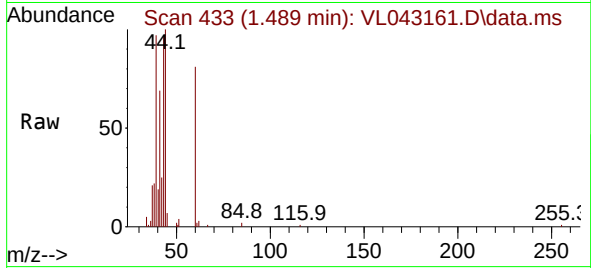
131-IA1

Tgt Ion: 41 Resp: 3510
 Ion Ratio Lower Upper
 41 100
 42 52.8 55.1 82.7

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



#11

Trichlorofluoromethane

Concen: 0.248 ppbv

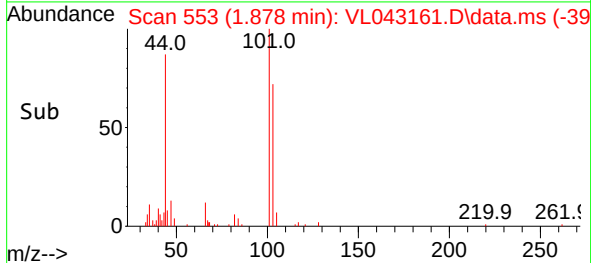
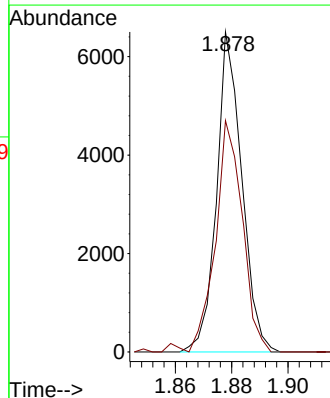
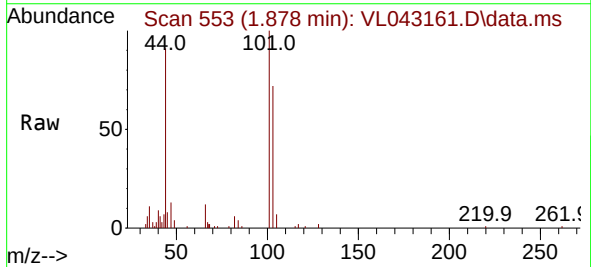
RT: 1.878 min Scan# 553

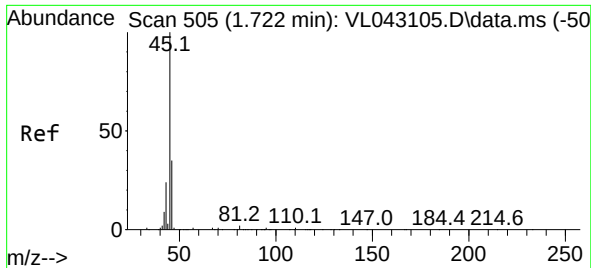
Delta R.T. -0.003 min

Lab File: VL043161.D

Acq: 06 Nov 2025 11:36

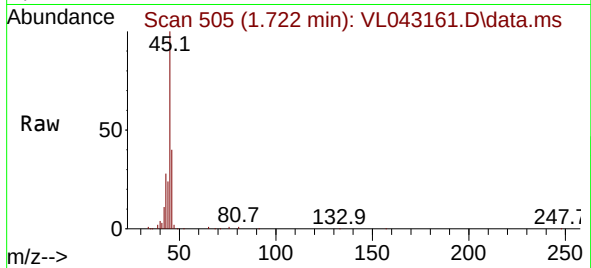
Tgt Ion:101 Resp: 4040
 Ion Ratio Lower Upper
 101 100
 103 72.3 49.3 73.9





#13
Ethanol
Concen: 3.793 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL043161.D
Acq: 06 Nov 2025 11:36

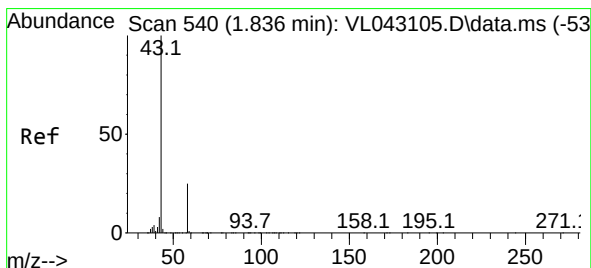
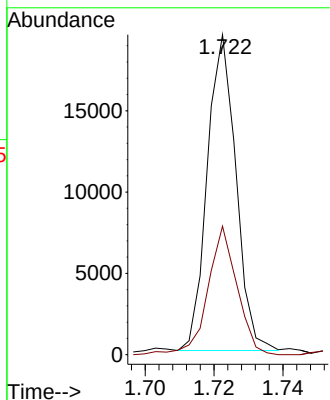
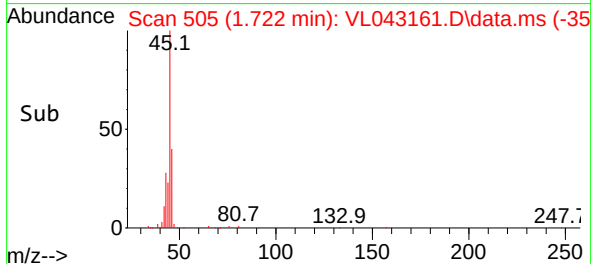
Instrument :
MSVOA_L
ClientSampleId :
131-IA1



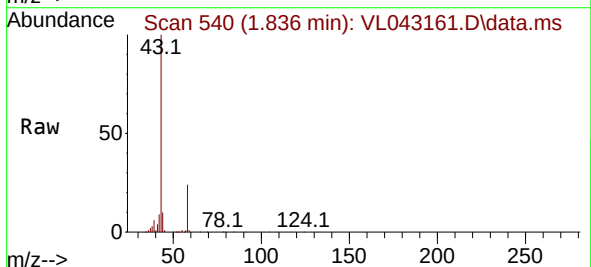
Tgt Ion: 45 Resp: 11228
Ion Ratio Lower Upper
45 100
46 41.5 14.7 58.9

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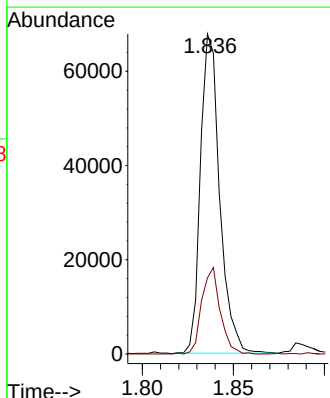
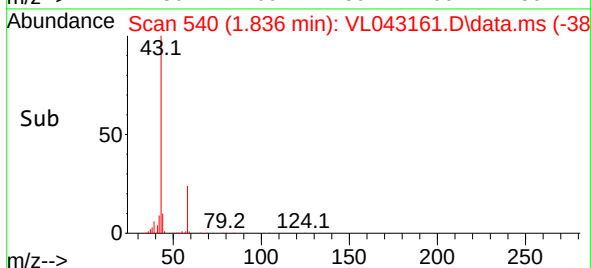
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

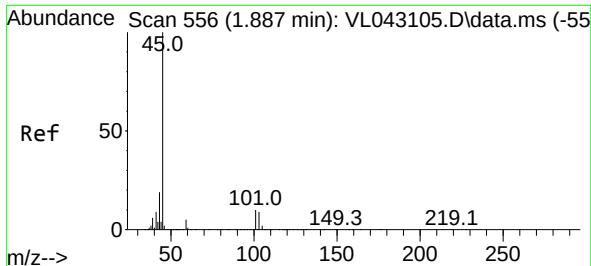


#15
Acetone
Concen: 3.152 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL043161.D
Acq: 06 Nov 2025 11:36



Tgt Ion: 43 Resp: 49828
Ion Ratio Lower Upper
43 100
58 26.0 20.8 31.2





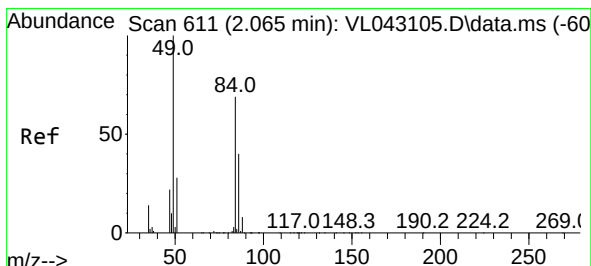
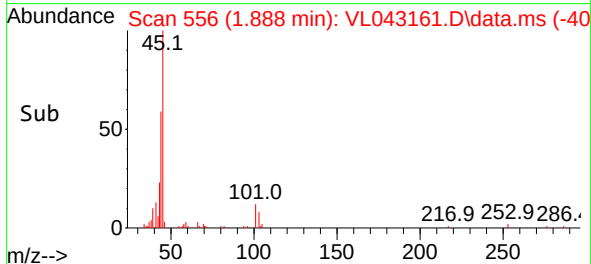
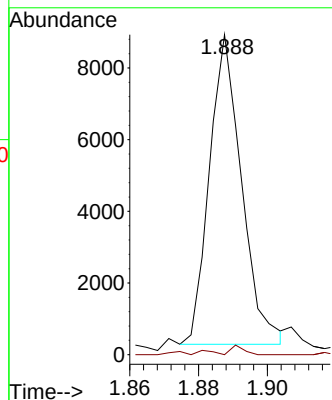
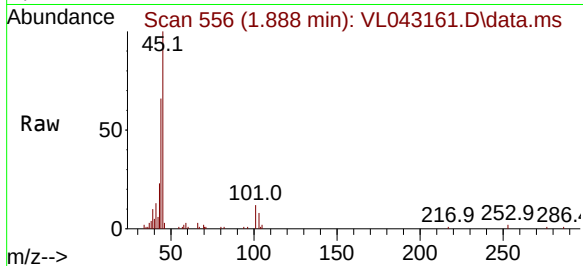
#19
Isopropyl Alcohol
Concen: 0.569 ppbv
RT: 1.888 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL043161.D
Acq: 06 Nov 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
131-IA1

Tgt Ion: 45 Resp: 560
Ion Ratio Lower Upper
45 100
58 231.1 31.3 46.9

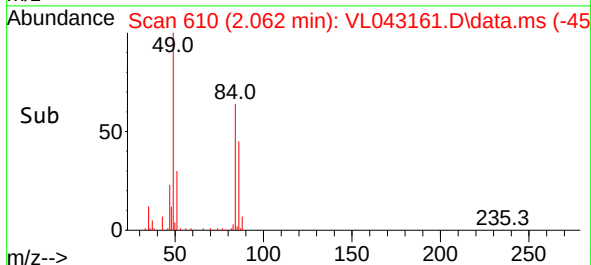
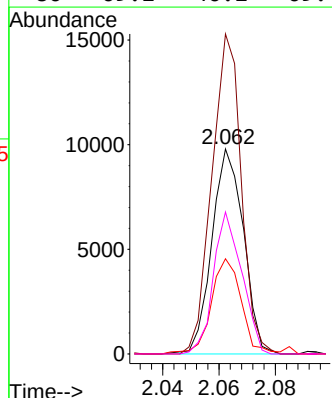
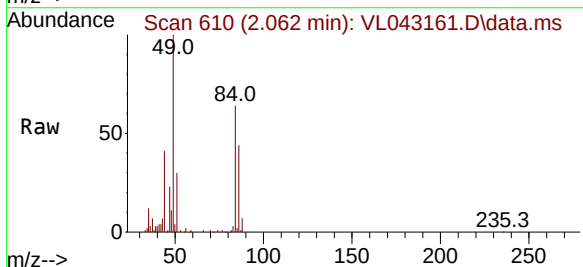
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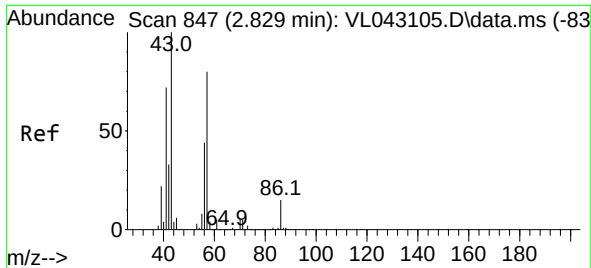
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#20
Methylene Chloride
Concen: 1.215 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL043161.D
Acq: 06 Nov 2025 11:36

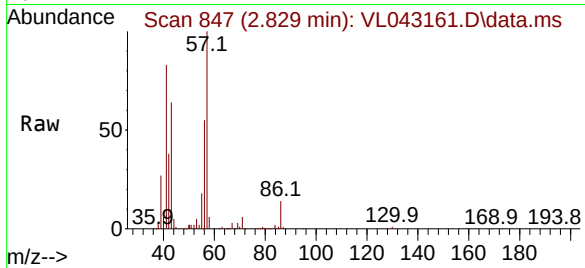
Tgt Ion: 84 Resp: 7591
Ion Ratio Lower Upper
84 100
49 156.1 116.6 175.0
51 45.4 34.8 52.2
86 69.2 46.2 69.4





#26
Hexane
Concen: 1.538 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL043161.D
Acq: 06 Nov 2025 11:36

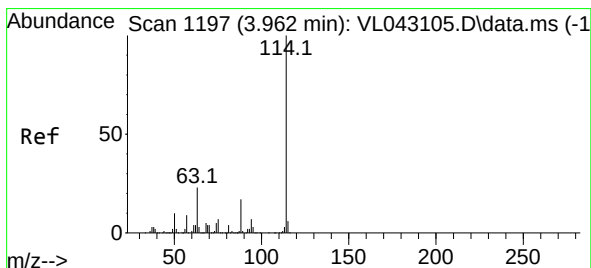
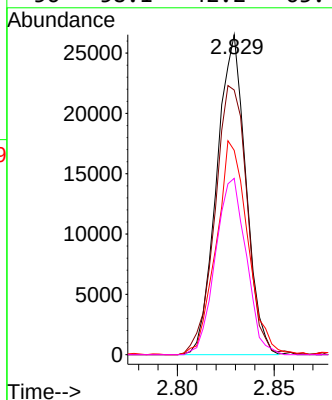
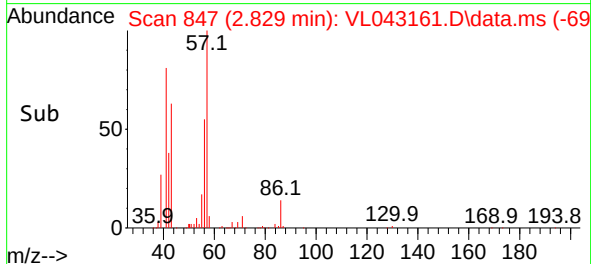
Instrument :
MSVOA_L
ClientSampleId :
131-IA1



Tgt Ion: 57 Resp: 27779
Ion Ratio Lower Upper
57 100
41 93.6 71.4 107.0
43 72.5 178.5 267.7
56 58.1 42.2 63.4

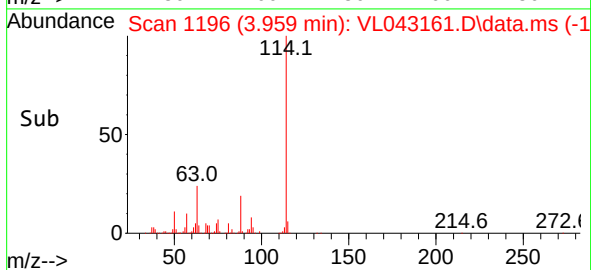
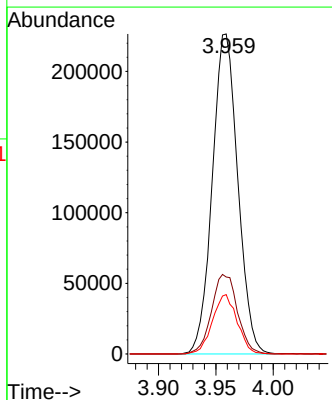
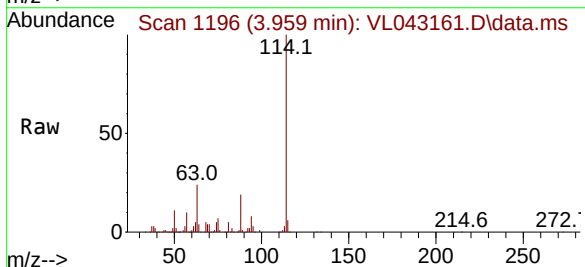
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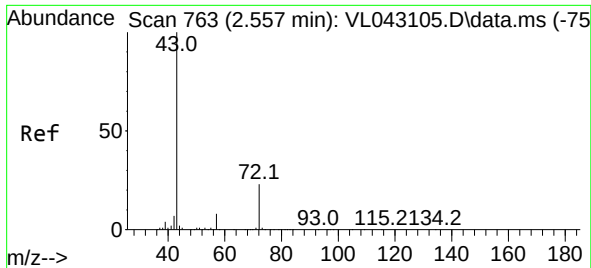
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.003 min
Lab File: VL043161.D
Acq: 06 Nov 2025 11:36

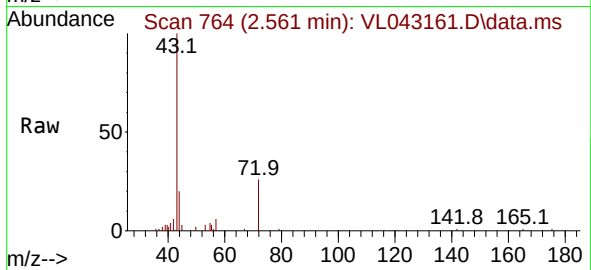
Tgt Ion:114 Resp: 349960
Ion Ratio Lower Upper
114 100
63 25.4 19.3 28.9
88 18.0 13.9 20.9





#34
2-Butanone
Concen: 0.313 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL043161.D
Acq: 06 Nov 2025 11:36

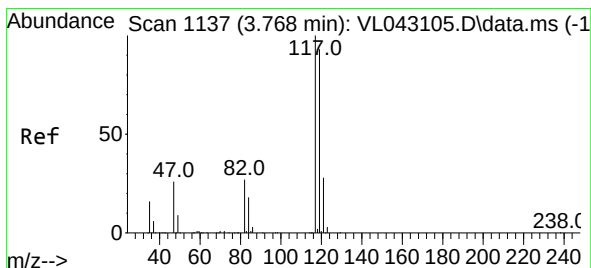
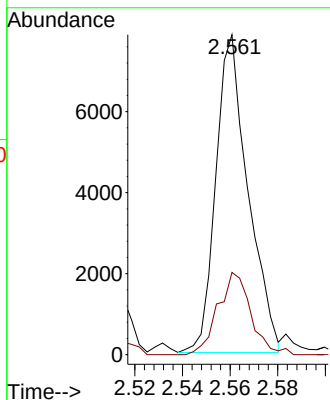
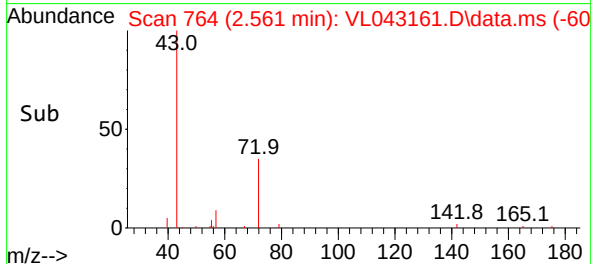
Instrument :
MSVOA_L
ClientSampleId :
131-IA1



Tgt Ion: 43 Resp: 7360
Ion Ratio Lower Upper
43 100
72 26.5 18.4 27.6

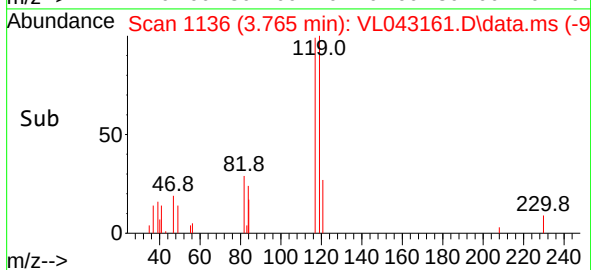
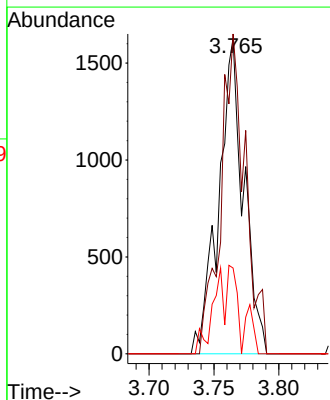
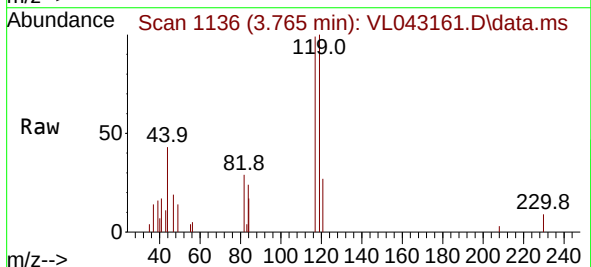
Manual Integrations
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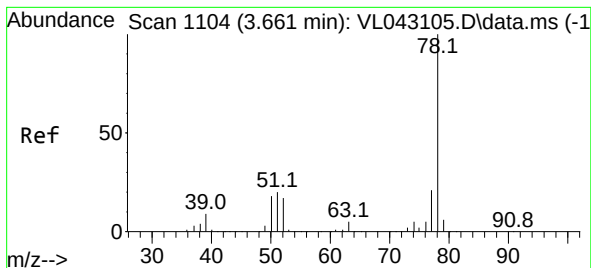
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#35
Carbon Tetrachloride
Concen: 0.087 ppbv m
RT: 3.765 min Scan# 1136
Delta R.T. -0.003 min
Lab File: VL043161.D
Acq: 06 Nov 2025 11:36

Tgt Ion:117 Resp: 2190
Ion Ratio Lower Upper
117 100
119 101.4 74.1 111.1
121 27.2 22.2 33.2





#36

Benzene

Concen: 0.143 ppbv

RT: 3.655 min Scan# 1102

Delta R.T. -0.006 min

Lab File: VL043161.D

Acq: 06 Nov 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

131-IA1

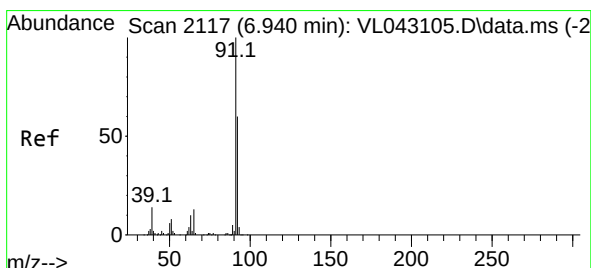
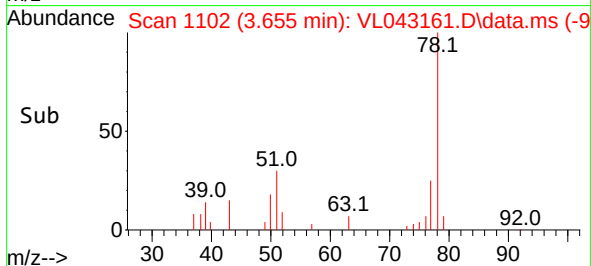
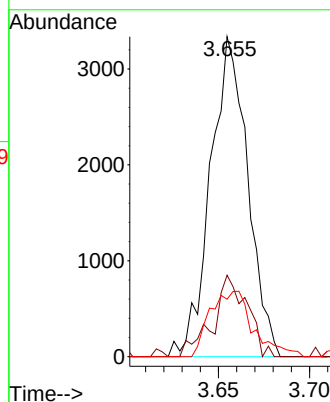
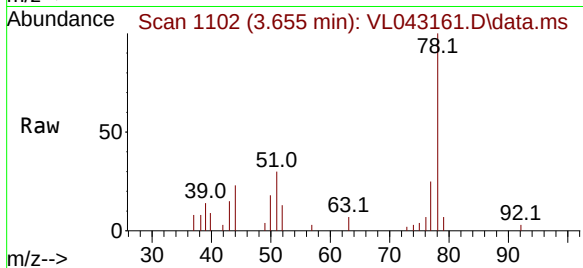
Tgt Ion: 78 Resp: 471

Ion	Ratio	Lower	Upper
78	100		
77	25.5	17.0	25.6
50	18.0	14.6	22.0

Manual Integrations

APPROVED

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



#53

Toluene

Concen: 0.222 ppbv

RT: 6.930 min Scan# 2114

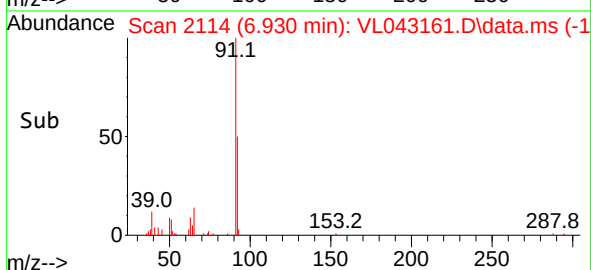
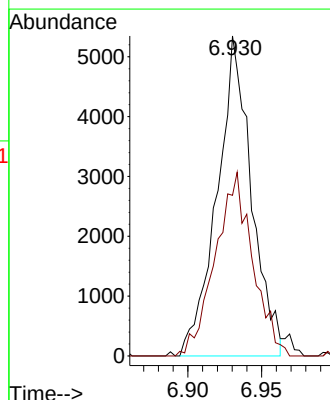
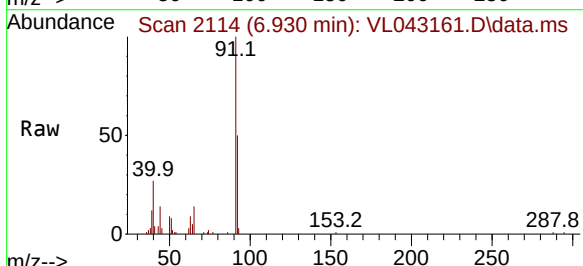
Delta R.T. -0.010 min

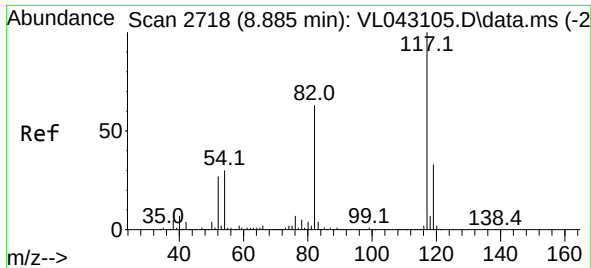
Lab File: VL043161.D

Acq: 06 Nov 2025 11:36

Tgt Ion: 91 Resp: 8680

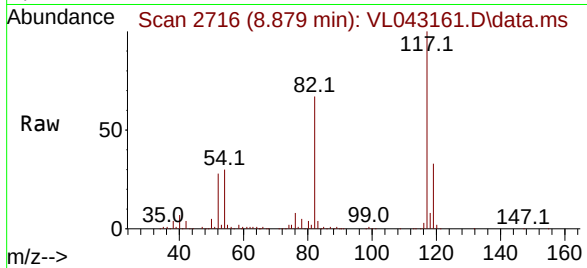
Ion	Ratio	Lower	Upper
91	100		
92	62.3	48.8	73.2





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL043161.D
Acq: 06 Nov 2025 11:36

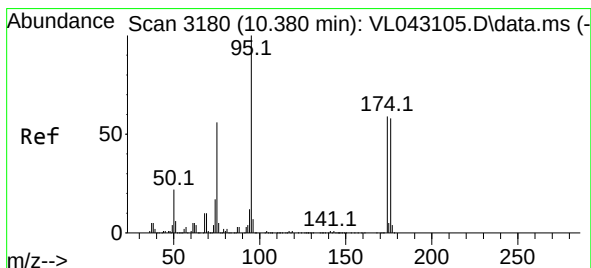
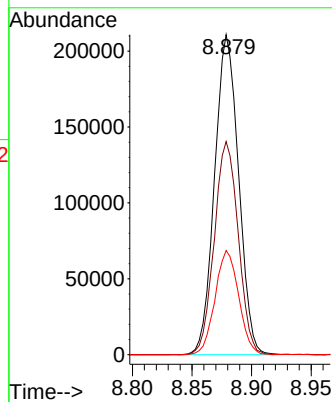
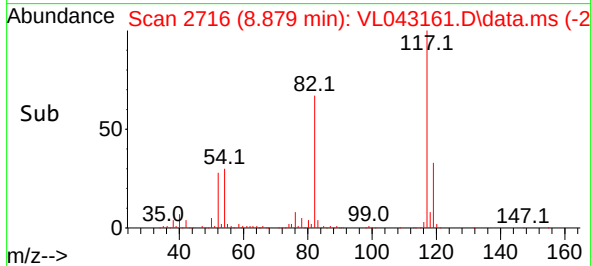
Instrument :
MSVOA_L
ClientSampleId :
131-IA1



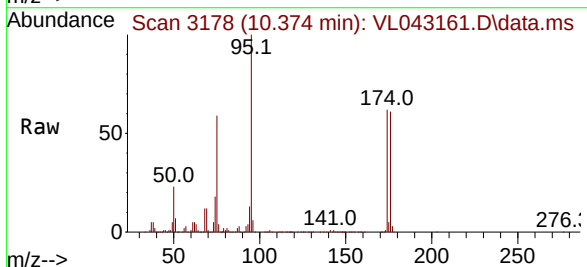
Tgt Ion:117 Resp: 295308
Ion Ratio Lower Upper
117 100
82 66.6 53.8 80.8
119 32.2 25.4 38.0

Manual Integrations
APPROVED

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



#68
1-Bromo-4-Fluorobenzene
Concen: 10.204 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.006 min
Lab File: VL043161.D
Acq: 06 Nov 2025 11:36



Tgt Ion: 95 Resp: 234219
Ion Ratio Lower Upper
95 100
174 63.8 48.3 72.5
175 4.6 3.8 5.8

