

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
 Data File : VL043159.D
 Acq On : 06 Nov 2025 10:17
 Operator : SY/MD
 Sample : Q3555-02DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 151-IA-2DUP

Manual Integrations
 APPROVED

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

Quant Time: Nov 07 00:19:08 2025

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri 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	2.790	49	118024	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	354784	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	303947	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	238666	10.102	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.000%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.502	85	7609	0.453	ppbv	94
3) Chlorodifluoromethane	1.479	51	5305m	0.292	ppbv	
4) Chloromethane	1.534	50	2577	0.388	ppbv	98
9) Propene	1.489	41	3944	0.490	ppbv	85
10) Heptane	4.991	43	2953m	0.127	ppbv	
11) Trichlorofluoromethane	1.881	101	5437	0.331	ppbv	98
13) Ethanol	1.722	45	124950	41.954	ppbv	96
15) Acetone	1.839	43	97541	6.132	ppbv	95
17) tert-Butyl alcohol	2.046	59	2284m	0.105	ppbv	
19) Isopropyl Alcohol	1.887	45	278208	28.080	ppbv #	37
20) Methylene Chloride	2.065	84	3186	0.507	ppbv	96
26) Hexane	2.832	57	18040	0.992	ppbv #	56
29) Chloroform	2.848	83	16144	0.613	ppbv	93
30) Cyclohexane	3.861	84	1460m	0.092	ppbv	
34) 2-Butanone	2.560	43	6502	0.273	ppbv	99
35) Carbon Tetrachloride	3.768	117	2069	0.081	ppbv #	93
36) Benzene	3.664	78	6423m	0.192	ppbv	
37) 1,2-Dichloroethane	3.221	62	4176	0.217	ppbv	96
44) 2,2,4-Trimethylpentane	4.648	57	5811m	0.103	ppbv	
53) Toluene	6.936	91	20621	0.520	ppbv	95
59) m/p-Xylene	9.532	91	11376m	0.273	ppbv	
60) o-Xylene	9.966	91	4406m	0.107	ppbv	

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

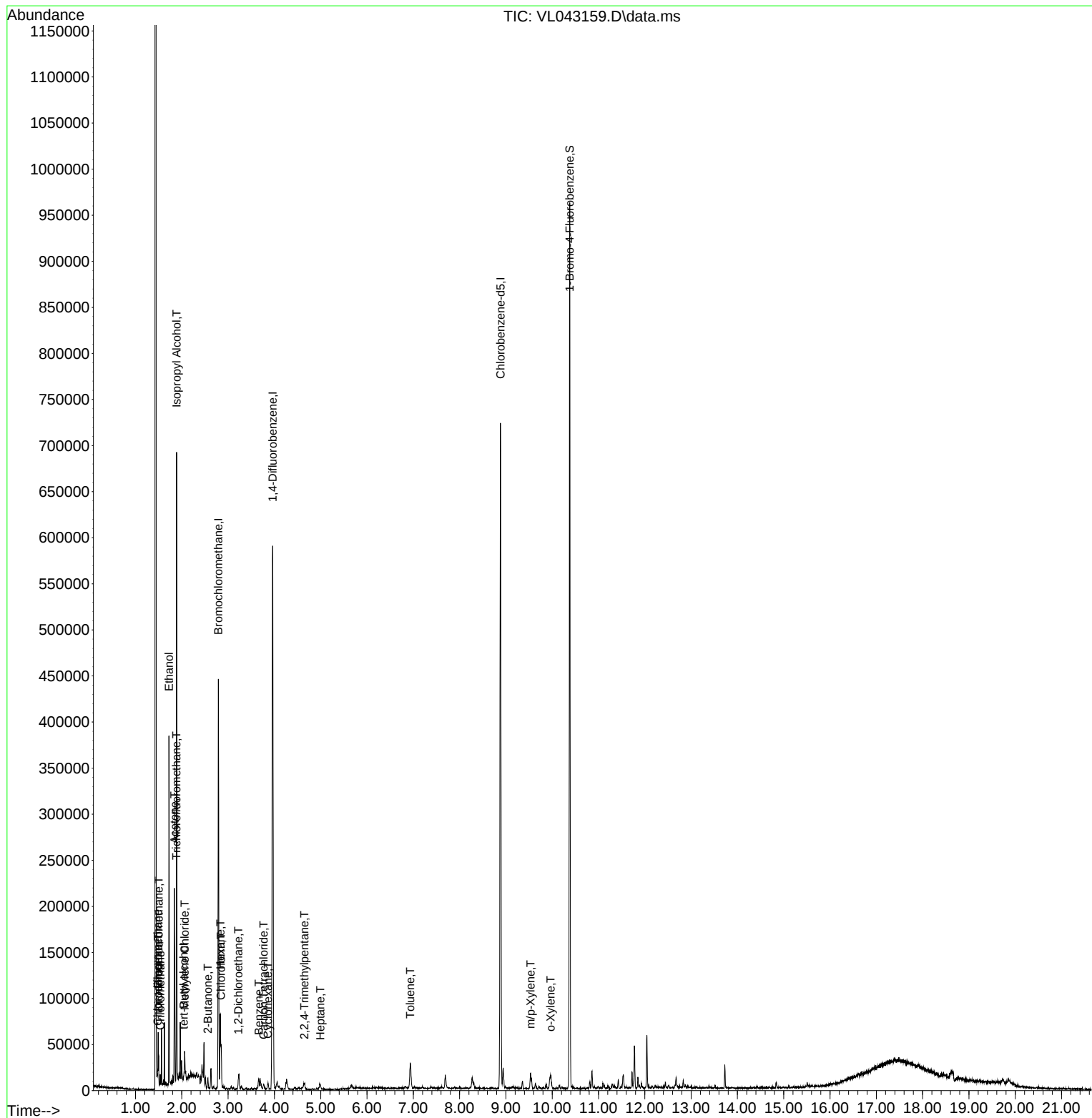
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
Data File : VL043159.D
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Operator : SY/MD
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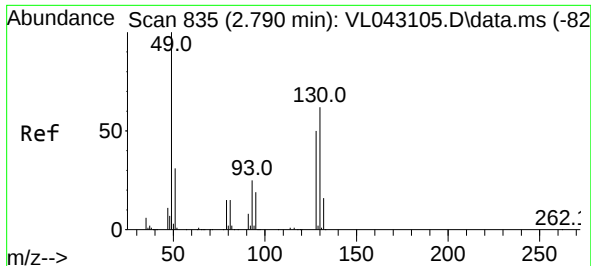
Instrument :
MSVOA_L
ClientSampleId :
151-IA-2DUP

Quant Time: Nov 07 00:19:08 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
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Manual Integrations
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Supervised By : Mahesh Dadoda 11/10/2025





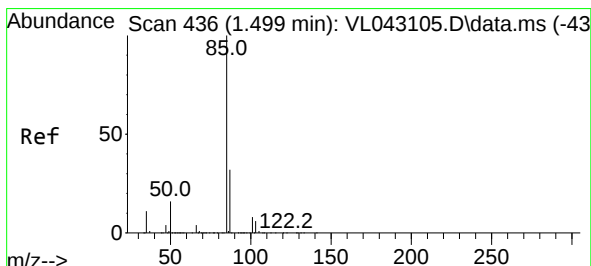
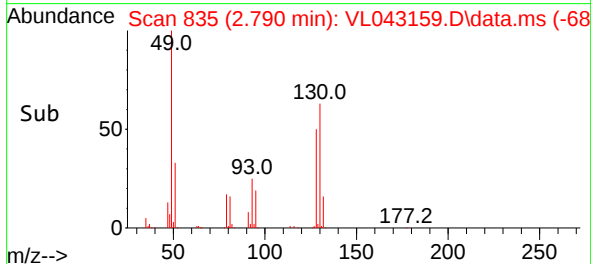
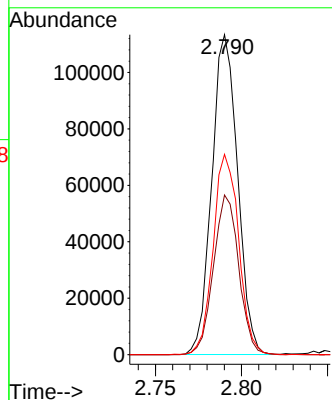
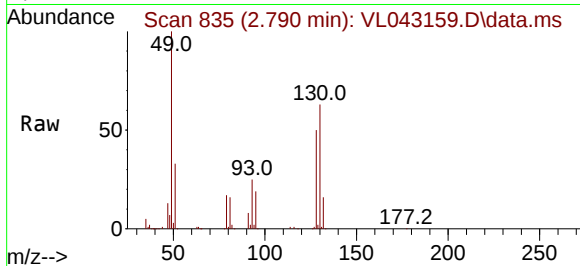
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Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
151-IA-2DUP

Tgt Ion: 49 Resp: 118024
Ion Ratio Lower Upper
49 100
128 49.1 24.4 73.4
130 62.2 31.0 93.0

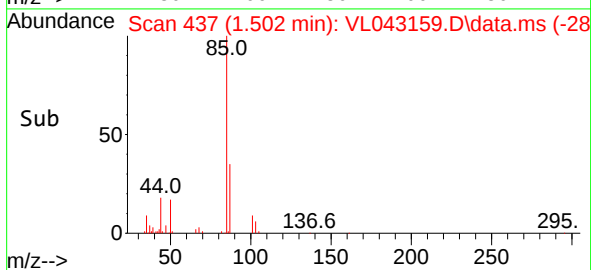
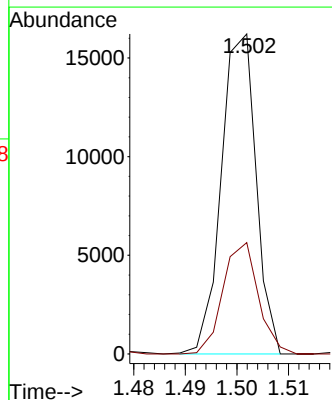
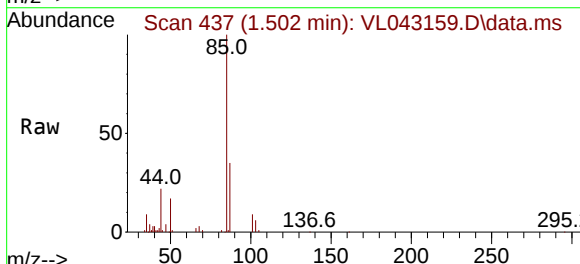
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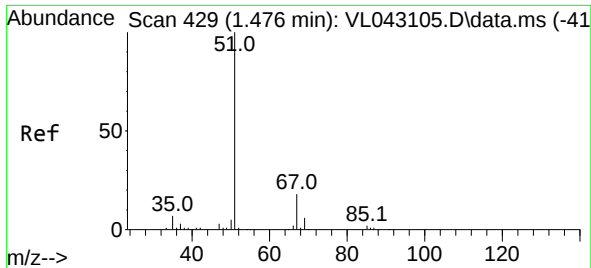
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#2
Dichlorodifluoromethane
Concen: 0.453 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

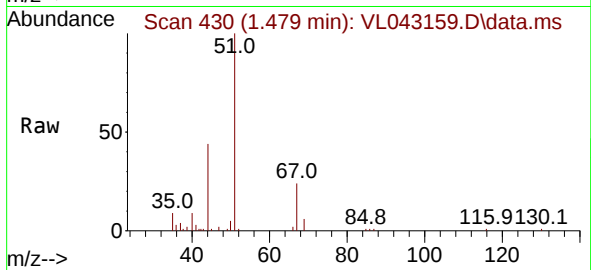
Tgt Ion: 85 Resp: 7609
Ion Ratio Lower Upper
85 100
87 34.8 25.3 37.9





#3
Chlorodifluoromethane
Concen: 0.292 ppbv m
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

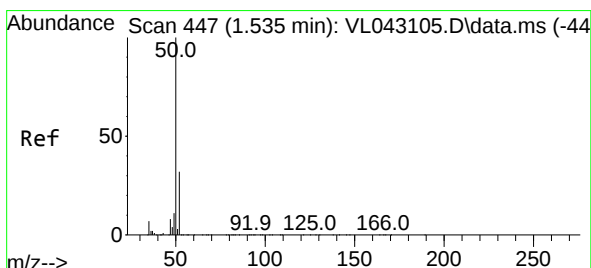
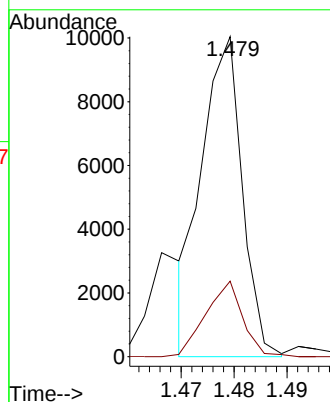
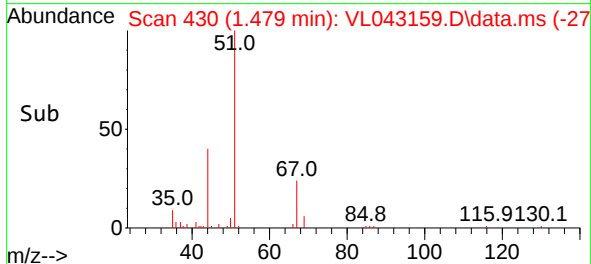
Instrument :
MSVOA_L
ClientSampleId :
151-IA-2DUP



Tgt Ion: 51 Resp: 530
Ion Ratio Lower Upper
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67 2.0 15.1 22.7

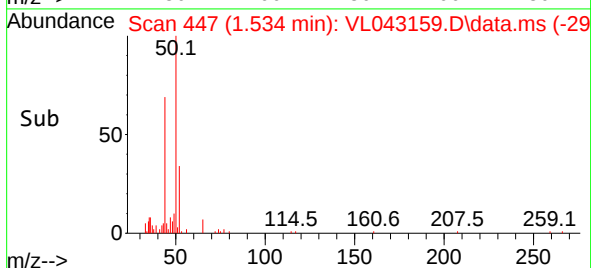
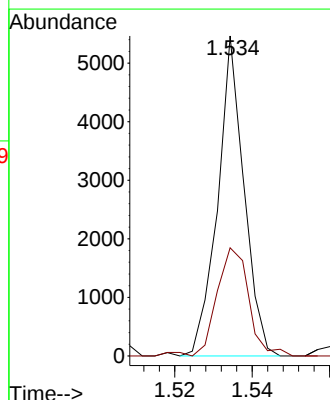
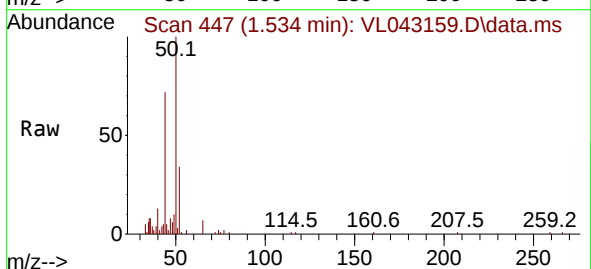
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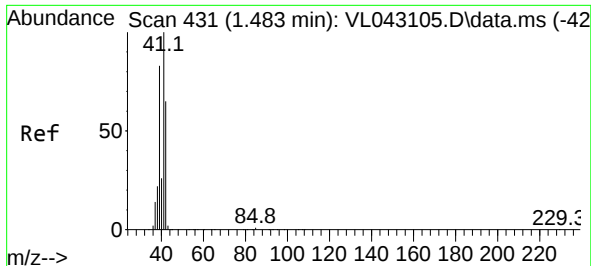
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#4
Chloromethane
Concen: 0.388 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

Tgt Ion: 50 Resp: 2577
Ion Ratio Lower Upper
50 100
52 32.7 25.2 37.8





#9

Propene

Concen: 0.490 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL043159.D

Acq: 06 Nov 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

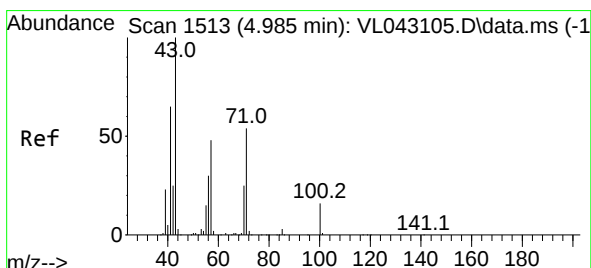
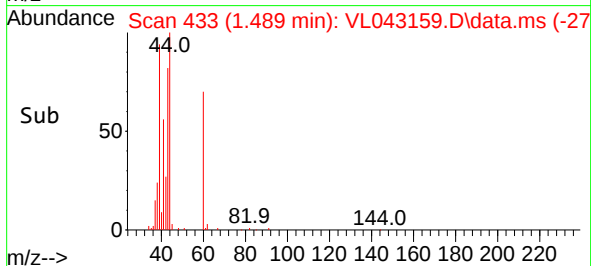
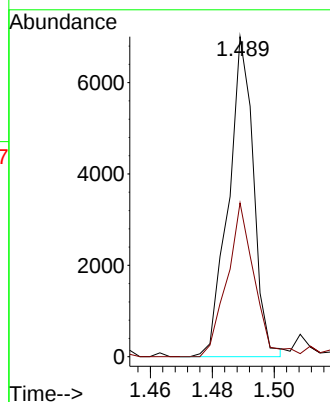
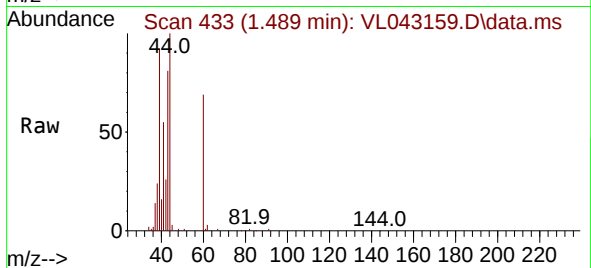
151-IA-2DUP

Tgt Ion: 41 Resp: 3944
 Ion Ratio Lower Upper
 41 100
 42 56.6 55.1 82.7

Manual Integrations

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



#10

Heptane

Concen: 0.127 ppbv m

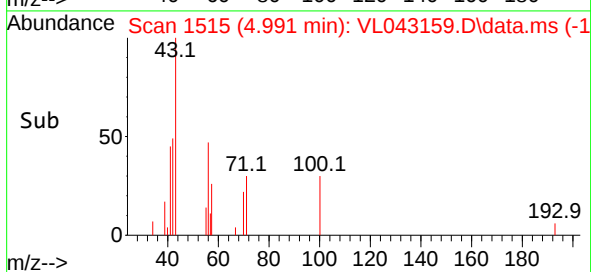
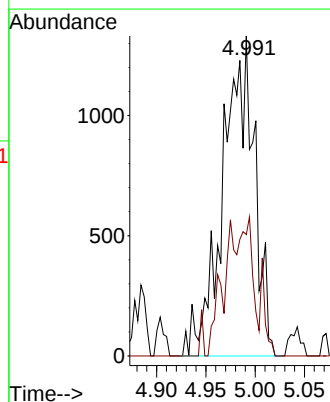
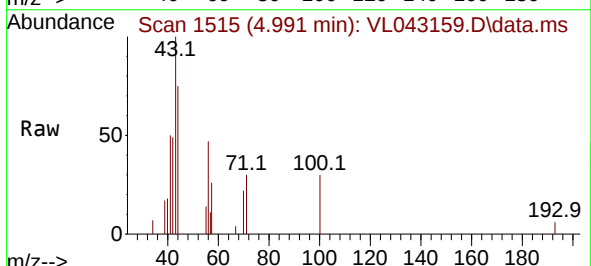
RT: 4.991 min Scan# 1515

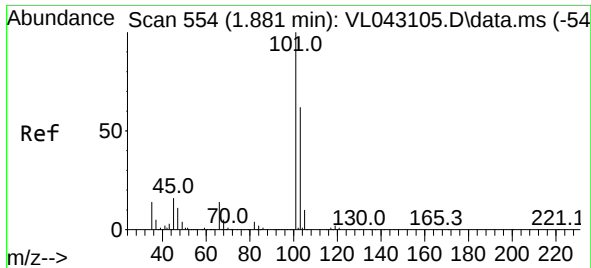
Delta R.T. 0.006 min

Lab File: VL043159.D

Acq: 06 Nov 2025 10:17

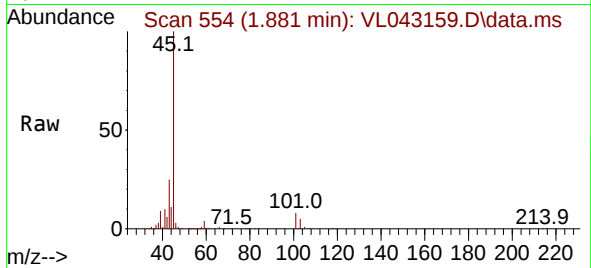
Tgt Ion: 43 Resp: 2953
 Ion Ratio Lower Upper
 43 100
 57 0.0 40.8 61.2#





#11
Trichlorofluoromethane
Concen: 0.331 ppbv
RT: 1.881 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

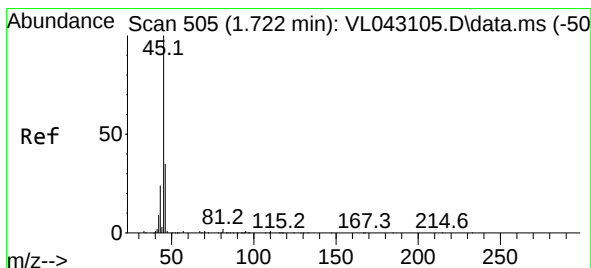
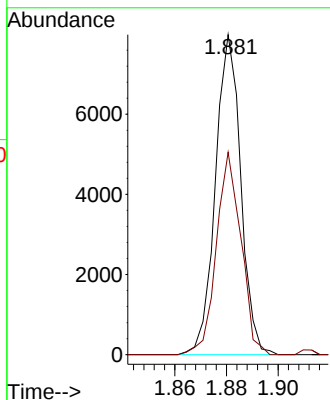
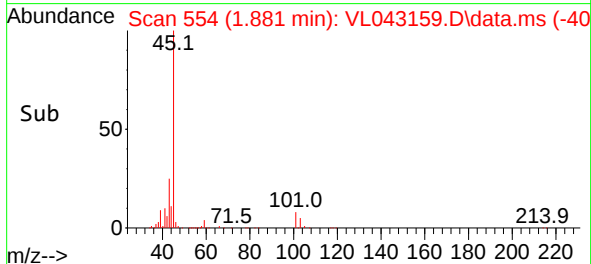
Instrument :
MSVOA_L
ClientSampleId :
151-IA-2DUP



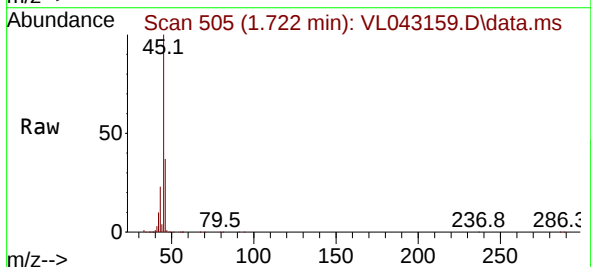
Tgt Ion:101 Resp: 543
Ion Ratio Lower Upper
101 100
103 63.3 49.3 73.9

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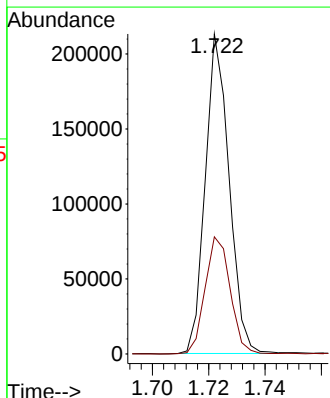
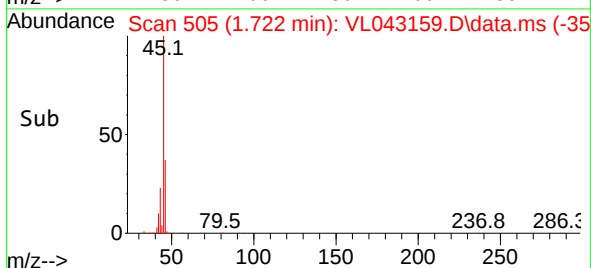
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Supervised By :Mahesh Dadoda 11/10/2025

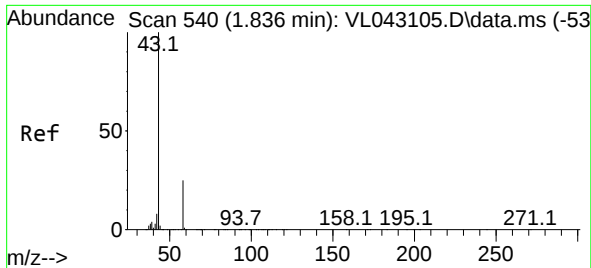


#13
Ethanol
Concen: 41.954 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17



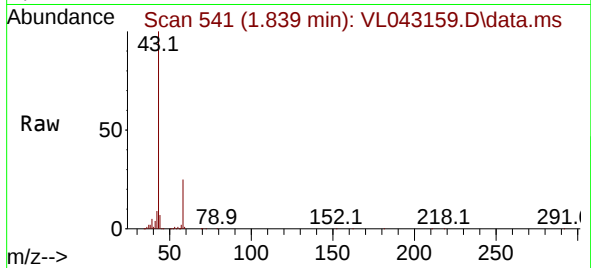
Tgt Ion: 45 Resp: 124950
Ion Ratio Lower Upper
45 100
46 39.0 14.7 58.9





#15
Acetone
Concen: 6.132 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

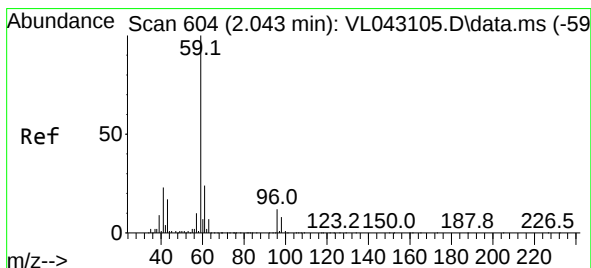
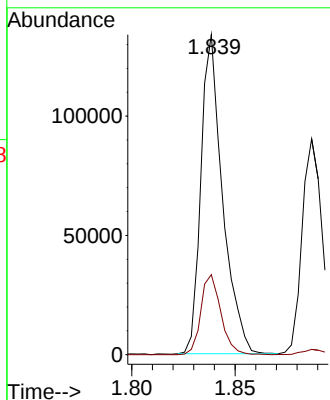
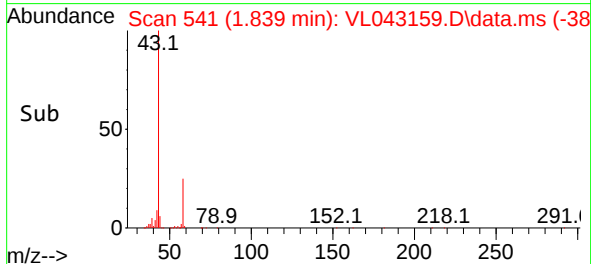
Instrument : MSVOA_L
ClientSampleId : 151-IA-2DUP



Tgt Ion: 43 Resp: 9754
Ion Ratio Lower Upper
43 100
58 23.2 20.8 31.2

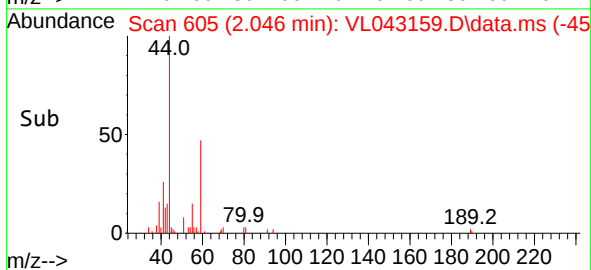
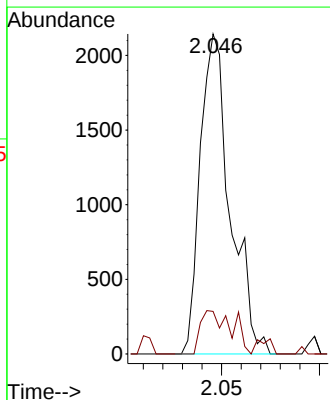
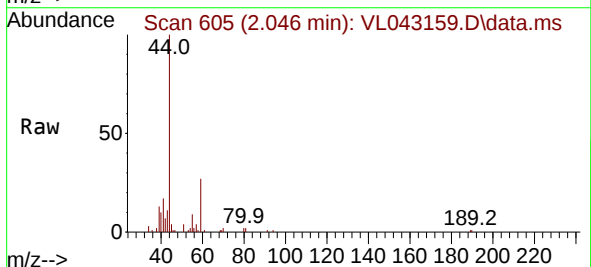
Manual Integrations
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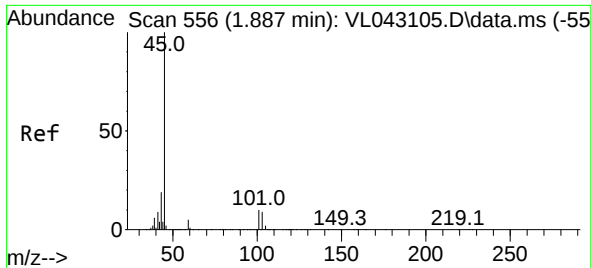
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#17
tert-Butyl alcohol
Concen: 0.105 ppbv m
RT: 2.046 min Scan# 605
Delta R.T. 0.003 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

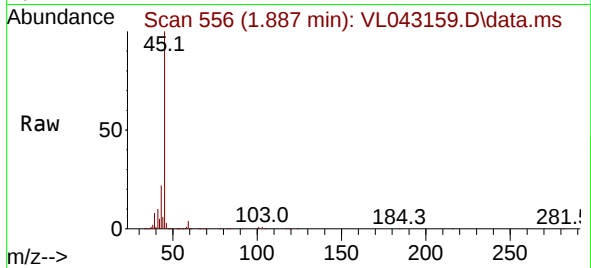
Tgt Ion: 59 Resp: 2284
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#19
Isopropyl Alcohol
Concen: 28.080 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.000 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

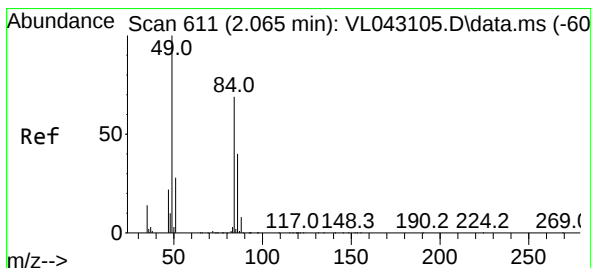
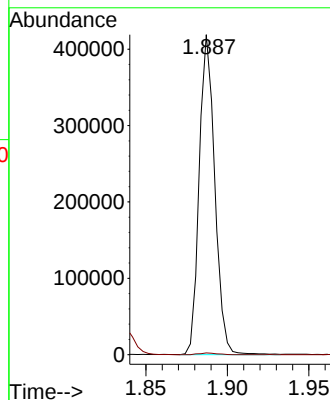
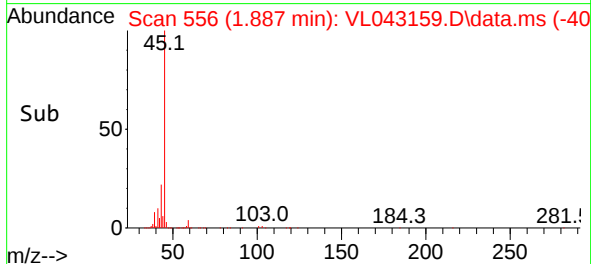
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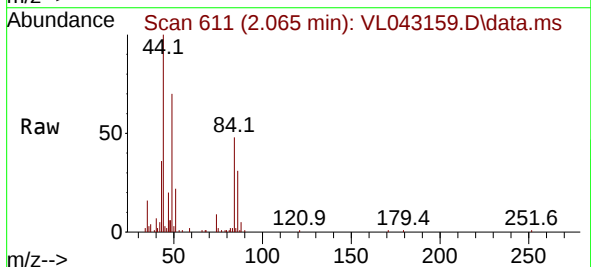
Tgt Ion: 45 Resp: 278208
Ion Ratio Lower Upper
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58 0.6 31.3 46.9

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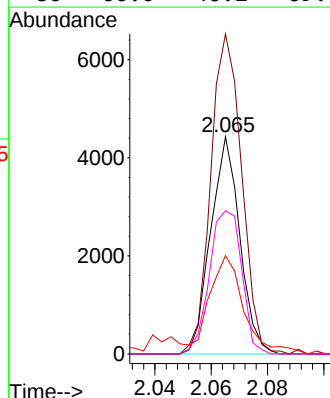
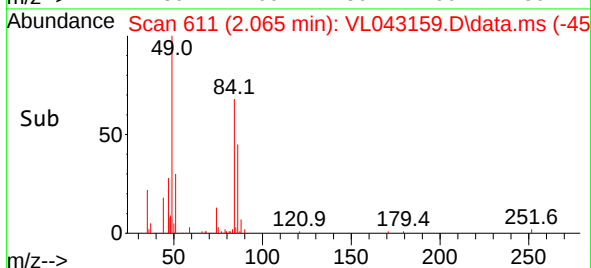
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

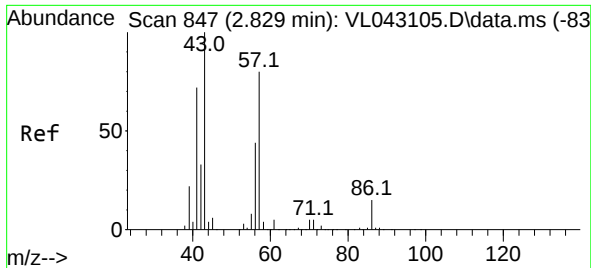


#20
Methylene Chloride
Concen: 0.507 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17



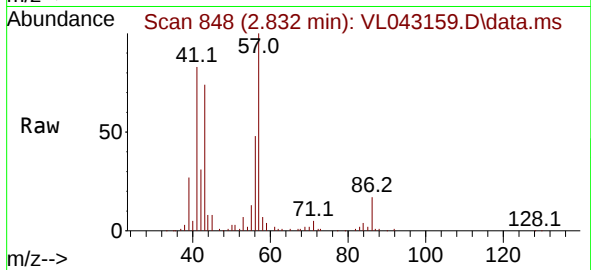
Tgt Ion: 84 Resp: 3186
Ion Ratio Lower Upper
84 100
49 147.4 116.6 175.0
51 41.9 34.8 52.2
86 66.0 46.2 69.4





#26
Hexane
Concen: 0.992 ppbv
RT: 2.832 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

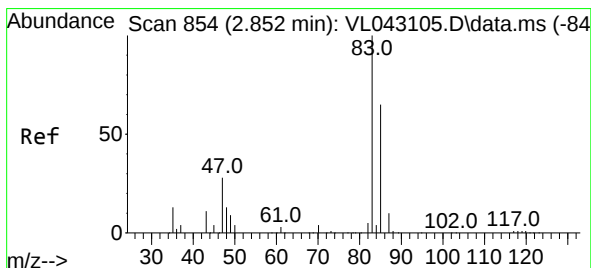
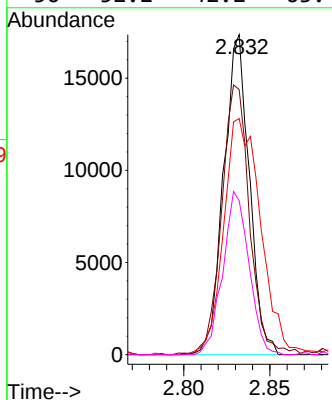
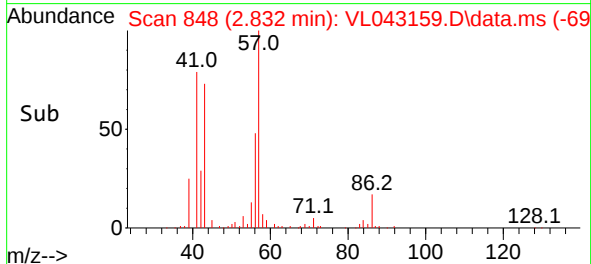
Instrument :
MSVOA_L
ClientSampleId :
151-IA-2DUP



Tgt Ion: 57 Resp: 18040
Ion Ratio Lower Upper
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43 108.4 178.5 267.7
56 52.2 42.2 63.4

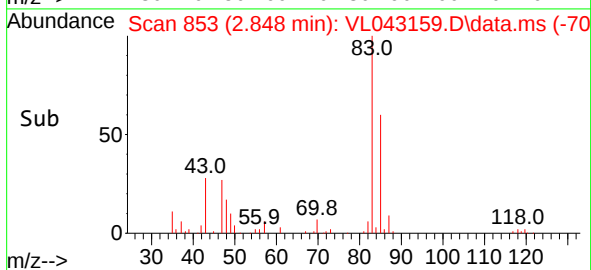
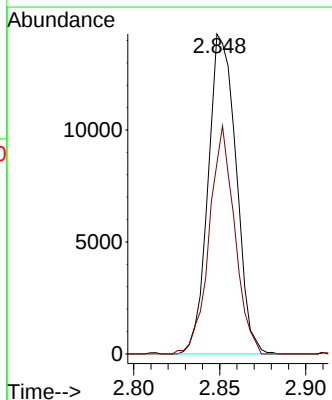
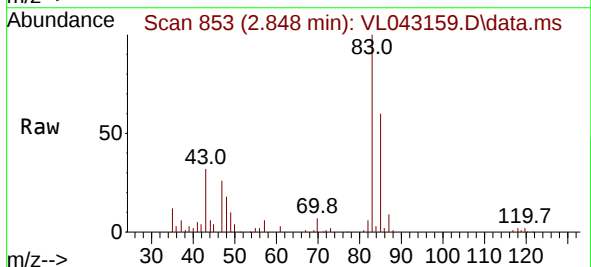
Manual Integrations
APPROVED

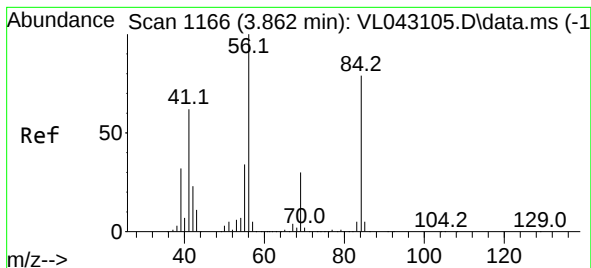
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#29
Chloroform
Concen: 0.613 ppbv
RT: 2.848 min Scan# 853
Delta R.T. -0.004 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

Tgt Ion: 83 Resp: 16144
Ion Ratio Lower Upper
83 100
85 59.6 51.8 77.6





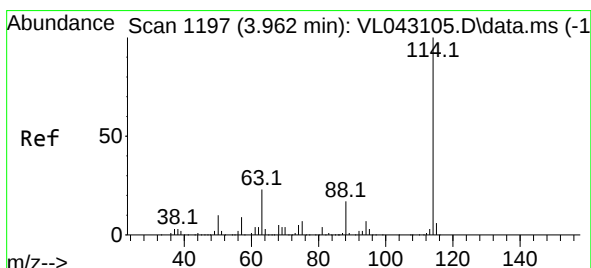
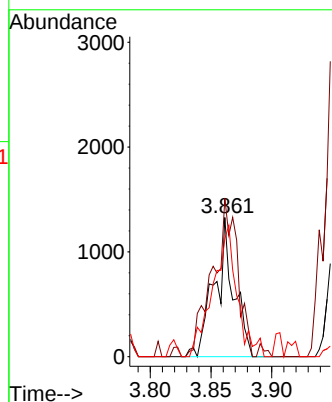
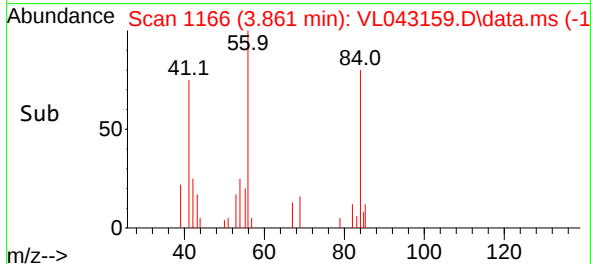
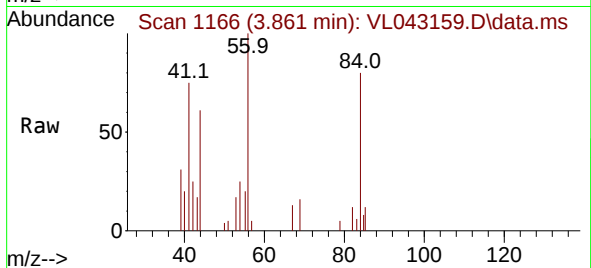
#30
Cyclohexane
Concen: 0.092 ppbv m
RT: 3.861 min Scan# 1166
Delta R.T. -0.000 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
151-IA-2DUP

Tgt Ion: 84 Resp: 1460
Ion Ratio Lower Upper
84 100
56 0.0 100.9 151.3
41 0.0 63.8 95.6

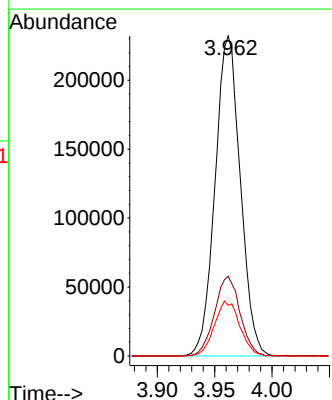
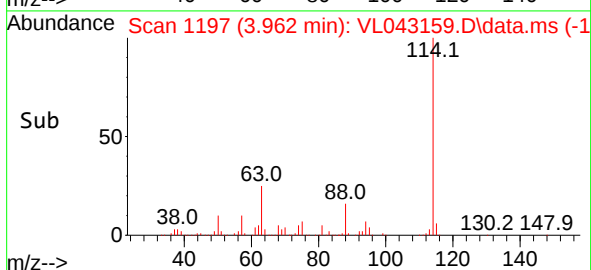
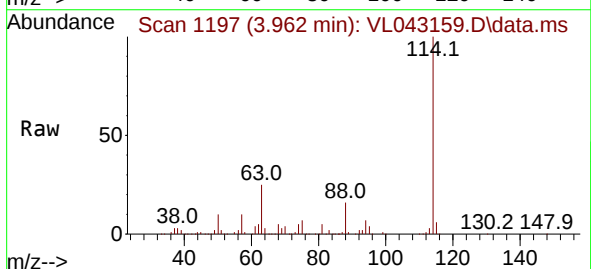
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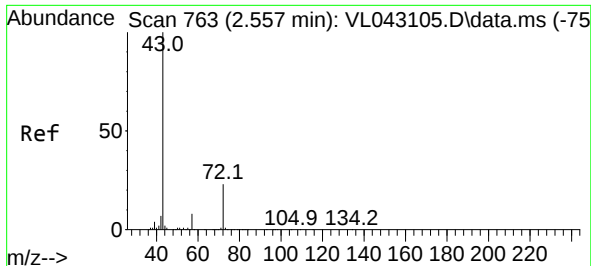
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. -0.000 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

Tgt Ion:114 Resp: 354784
Ion Ratio Lower Upper
114 100
63 25.2 19.3 28.9
88 17.3 13.9 20.9





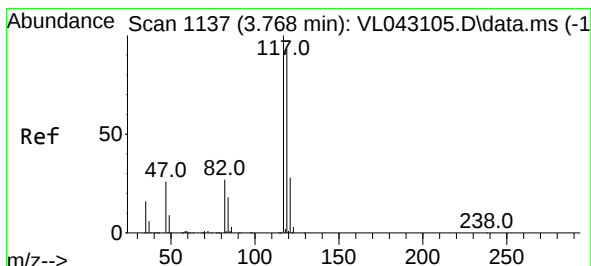
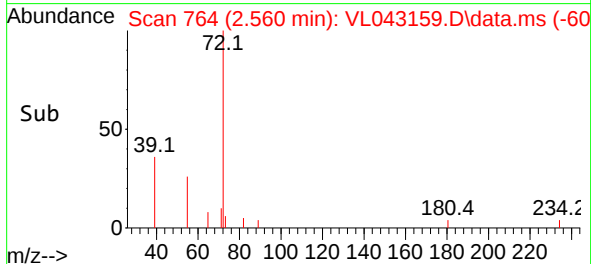
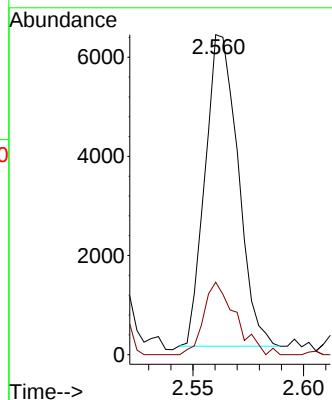
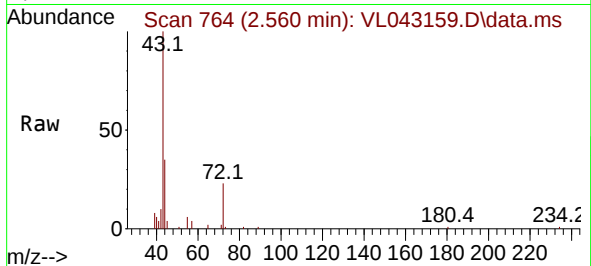
#34
2-Butanone
Concen: 0.273 ppbv
RT: 2.560 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
151-IA-2DUP

Tgt Ion: 43 Resp: 6502
Ion Ratio Lower Upper
43 100
72 22.6 18.4 27.6

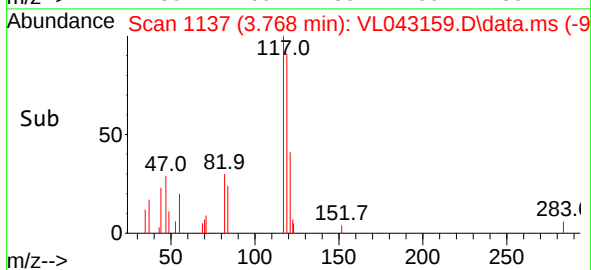
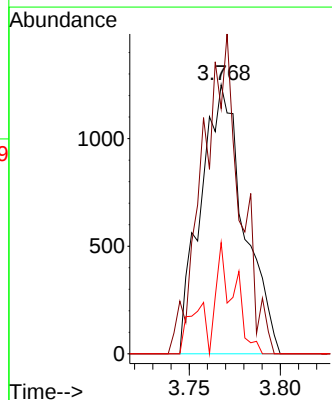
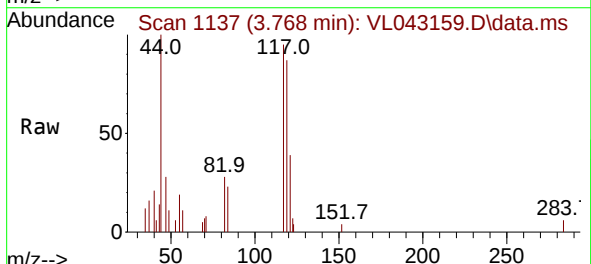
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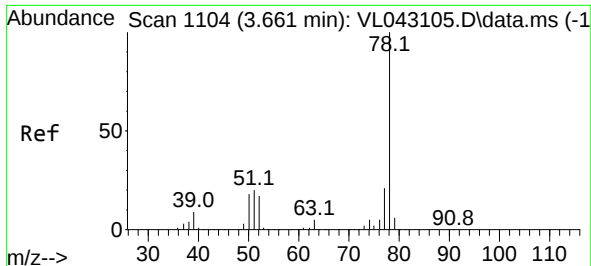
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#35
Carbon Tetrachloride
Concen: 0.081 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. -0.000 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

Tgt Ion:117 Resp: 2069
Ion Ratio Lower Upper
117 100
119 91.2 74.1 111.1
121 41.4 22.2 33.2#





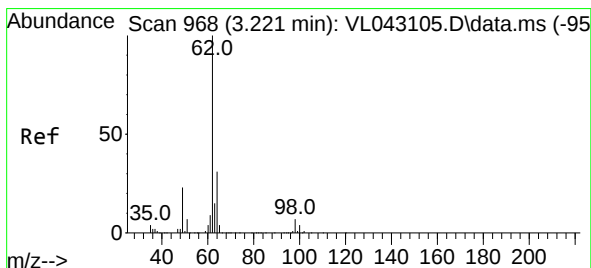
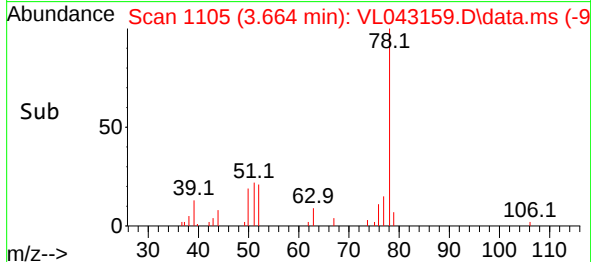
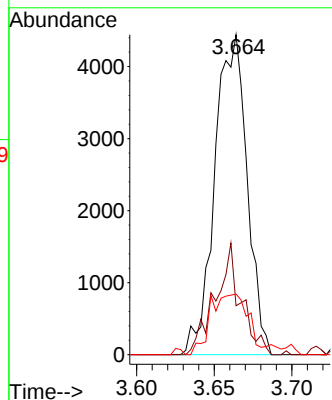
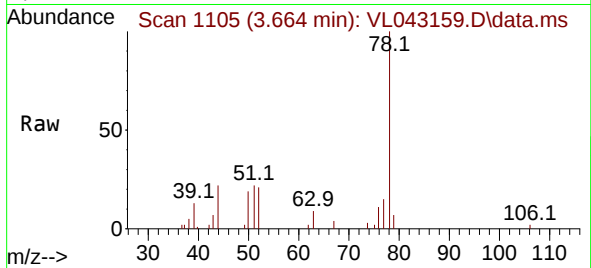
#36
Benzene
Concen: 0.192 ppbv m
RT: 3.664 min Scan# 1104
Delta R.T. 0.003 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
151-IA-2DUP

Tgt Ion: 78 Resp: 642
Ion Ratio Lower Upper
78 100
77 15.3 17.0 25.6
50 19.0 14.6 22.0

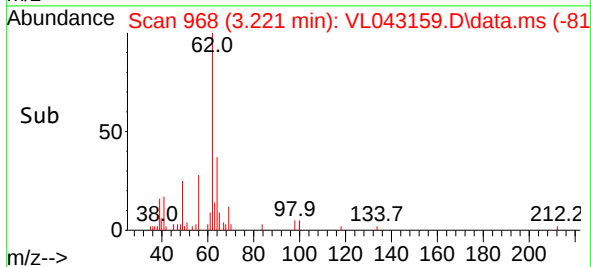
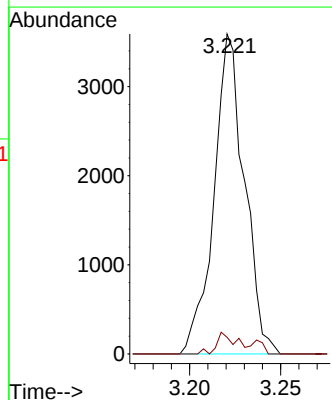
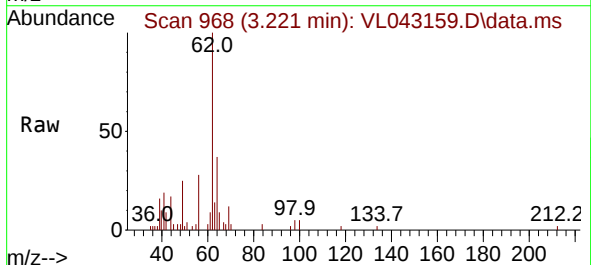
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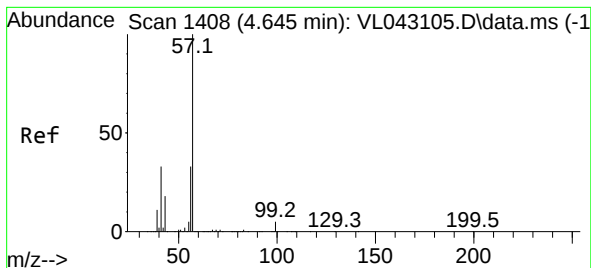
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#37
1,2-Dichloroethane
Concen: 0.217 ppbv
RT: 3.221 min Scan# 968
Delta R.T. -0.000 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

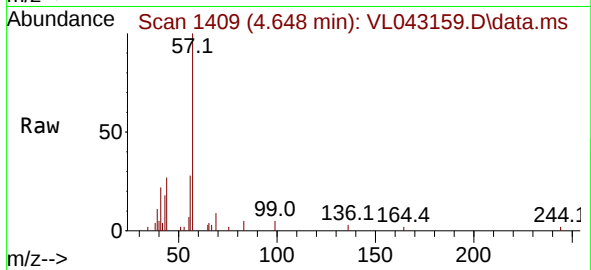
Tgt Ion: 62 Resp: 4176
Ion Ratio Lower Upper
62 100
98 6.0 5.8 8.6





#44
2,2,4-Trimethylpentane
Concen: 0.103 ppbv m
RT: 4.648 min Scan# 1408
Delta R.T. 0.003 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

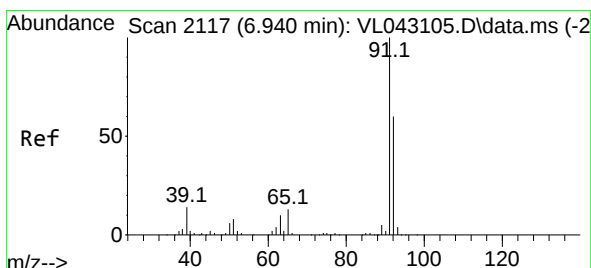
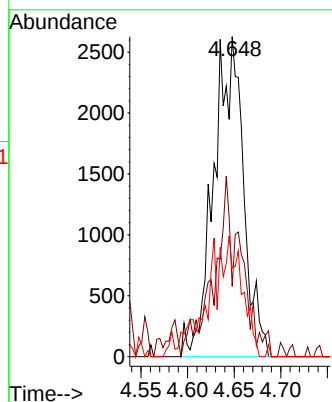
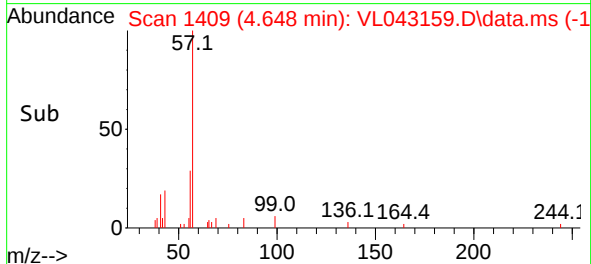
Instrument :
MSVOA_L
ClientSampleId :
151-IA-2DUP



Tgt Ion: 57 Resp: 581
Ion Ratio Lower Upper
57 100
41 50.9 26.3 39.5
56 44.0 25.9 38.9

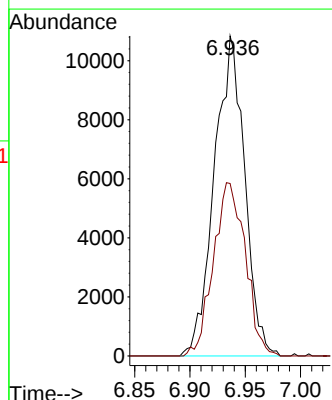
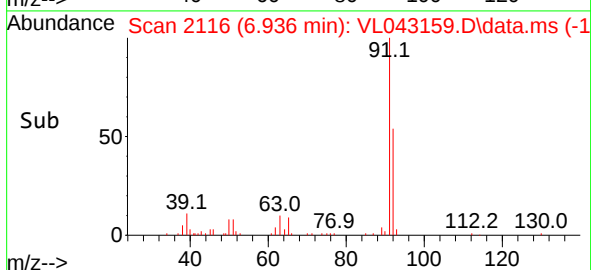
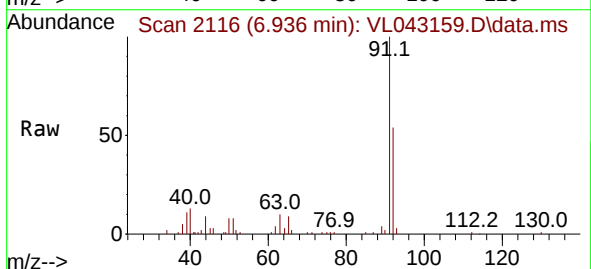
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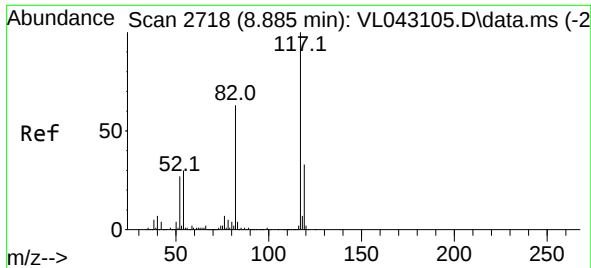
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#53
Toluene
Concen: 0.520 ppbv
RT: 6.936 min Scan# 2116
Delta R.T. -0.004 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

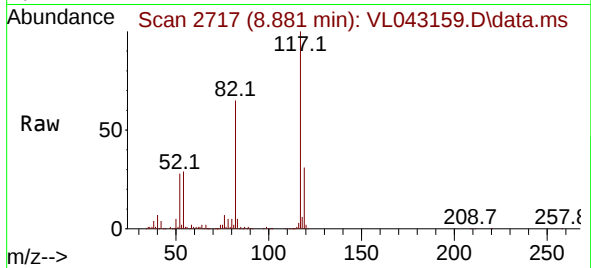
Tgt Ion: 91 Resp: 20621
Ion Ratio Lower Upper
91 100
92 57.0 48.8 73.2





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 21
Delta R.T. -0.004 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

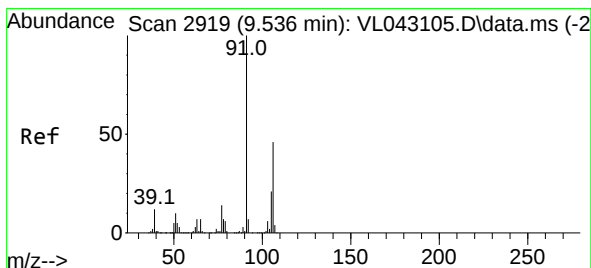
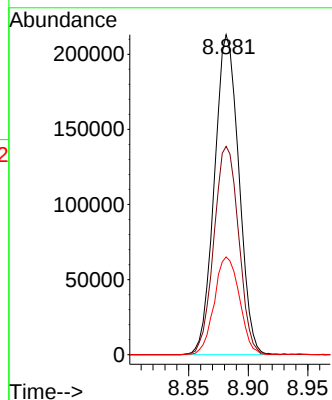
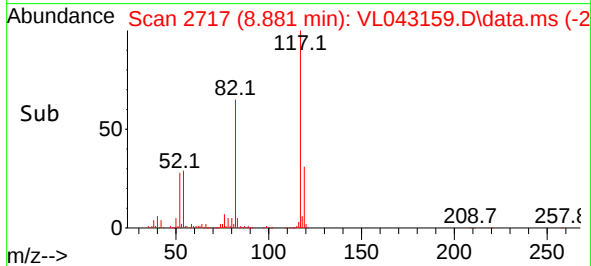
Instrument :
MSVOA_L
ClientSampleId :
151-IA-2DUP



Tgt Ion:117 Resp: 30394
Ion Ratio Lower Upper
117 100
82 66.1 53.8 80.8
119 31.6 25.4 38.0

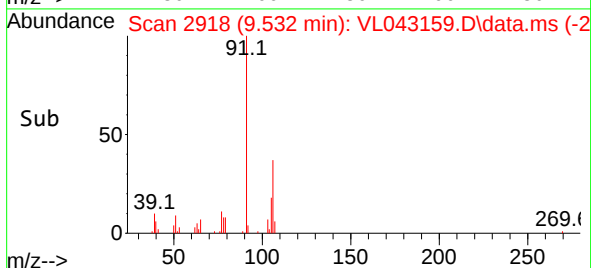
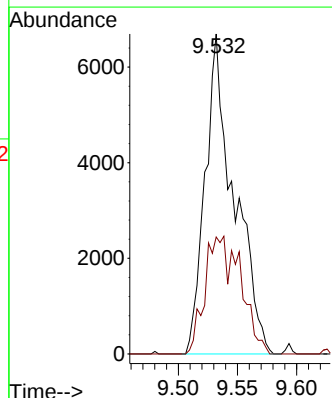
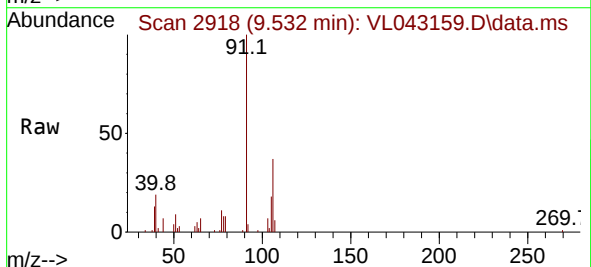
Manual Integrations
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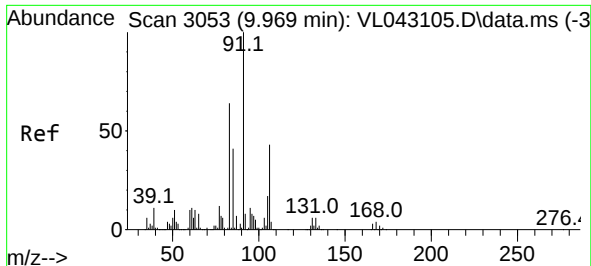
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#59
m/p-Xylene
Concen: 0.273 ppbv m
RT: 9.532 min Scan# 2918
Delta R.T. -0.004 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

Tgt Ion: 91 Resp: 11376
Ion Ratio Lower Upper
91 100
106 45.6 38.0 57.0





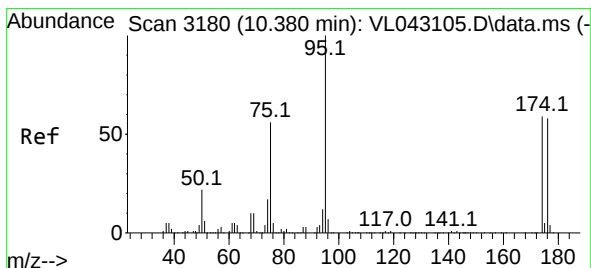
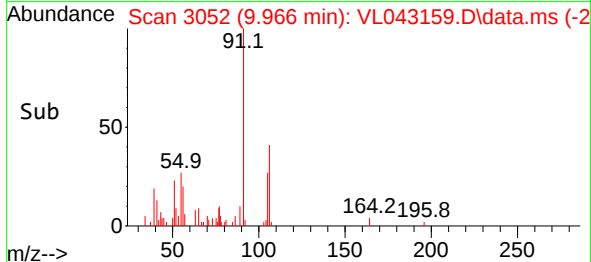
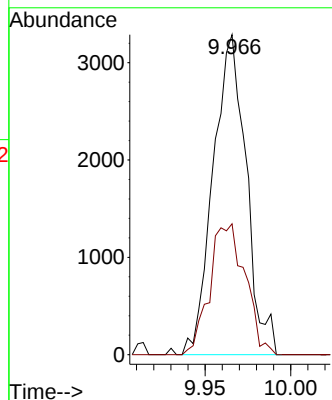
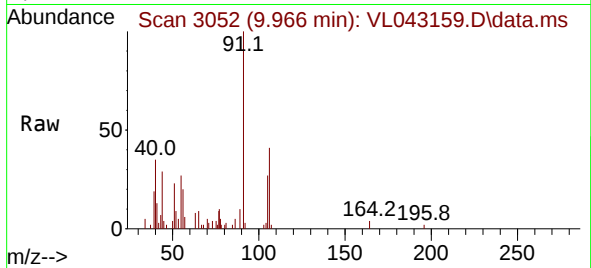
#60
o-Xylene
Concen: 0.107 ppbv m
RT: 9.966 min Scan# 3053
Delta R.T. -0.004 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
151-IA-2DUP

Tgt Ion: 91 Resp: 4400
Ion Ratio Lower Upper
91 100
106 44.1 21.9 65.8

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



#68
1-Bromo-4-Fluorobenzene
Concen: 10.102 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.004 min
Lab File: VL043159.D
Acq: 06 Nov 2025 10:17

Tgt Ion: 95 Resp: 238666
Ion Ratio Lower Upper
95 100
174 63.9 48.3 72.5
175 4.4 3.8 5.8

