

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061625\
 Data File : VL042626.D
 Acq On : 16 Jun 2025 13:27
 Operator : SY/MD
 Sample : Q2317-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-3

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/17/2025
 Supervised By :Mahesh Dadoda 06/17/2025

Quant Time: Jun 17 03:04:45 2025

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

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

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

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	109400	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	291899	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	254916	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	197031	10.311	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	6441	0.479	ppbv	95
3) Chlorodifluoromethane	1.476	51	5648m	0.305	ppbv	
4) Chloromethane	1.534	50	2886	0.542	ppbv #	86
9) Propene	1.486	41	4803	0.644	ppbv	93
10) Heptane	4.975	43	3134m	0.149	ppbv	
11) Trichlorofluoromethane	1.881	101	3345	0.267	ppbv	96
13) Ethanol	1.722	45	14866	16.727	ppbv	99
15) Acetone	1.839	43	134981	10.243	ppbv	96
19) Isopropyl Alcohol	1.890	45	7796	0.990	ppbv #	1
20) Methylene Chloride	2.065	84	12977	2.984	ppbv	98
26) Hexane	2.829	57	79039	4.824	ppbv #	43
34) 2-Butanone	2.564	43	13517	0.649	ppbv	99
35) Carbon Tetrachloride	3.771	117	1448m	0.075	ppbv	
36) Benzene	3.664	78	9139	0.318	ppbv	96
44) 2,2,4-Trimethylpentane	4.648	57	9375	0.191	ppbv #	80
50) 4-Methyl-2-Pentanone	5.778	43	5159m	0.179	ppbv	
53) Toluene	6.946	91	15331	0.461	ppbv	96
58) Ethyl Benzene	9.361	91	4480m	0.104	ppbv	
59) m/p-Xylene	9.535	91	16281m	0.478	ppbv	
60) o-Xylene	9.972	91	7762m	0.229	ppbv	
61) Styrene	9.885	104	2066m	0.129	ppbv	
74) 1,2,4-Trimethylbenzene	11.536	105	6700	0.172	ppbv #	65

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

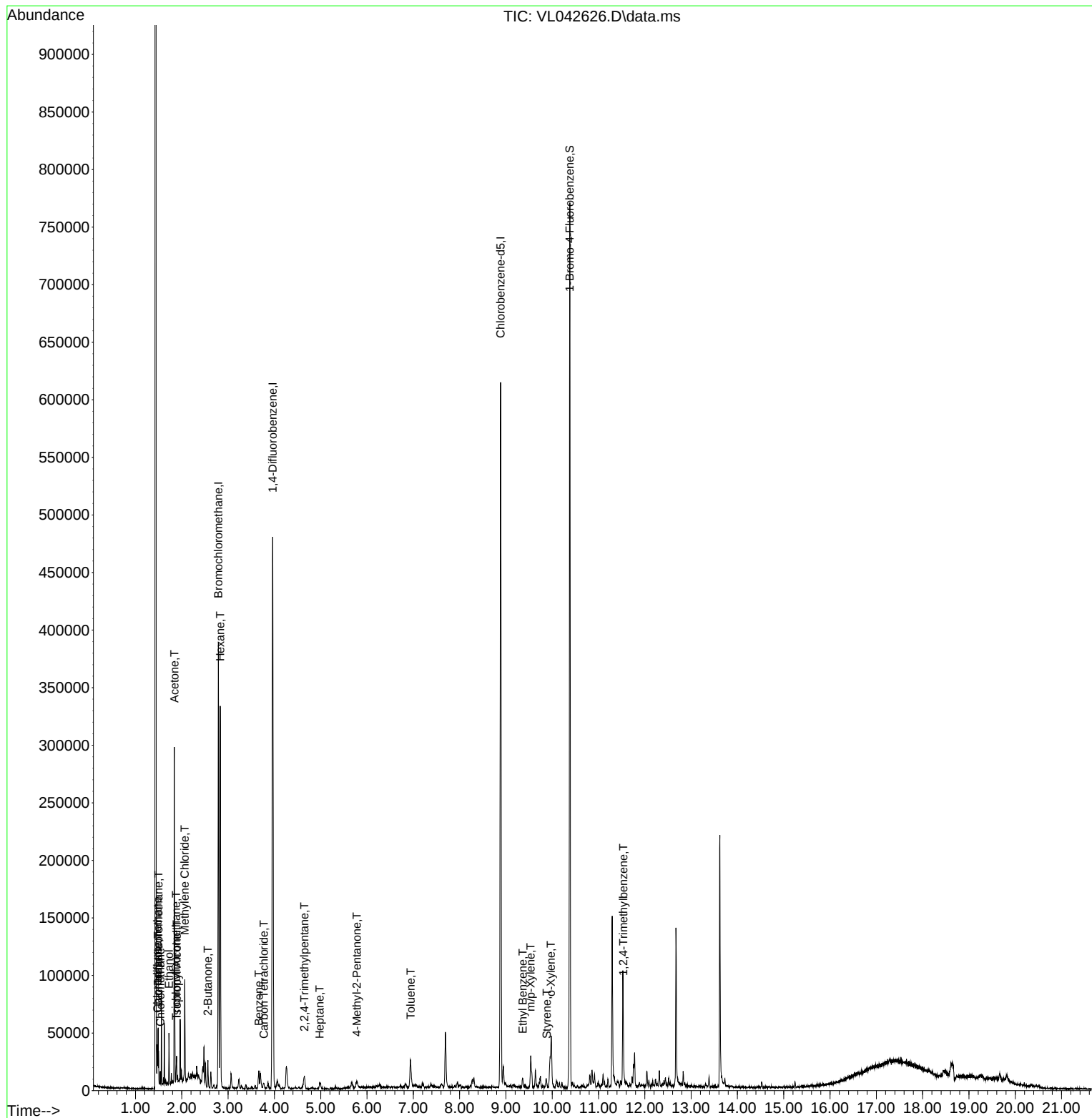
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061625\
Data File : VL042626.D
Acq On : 16 Jun 2025 13:27
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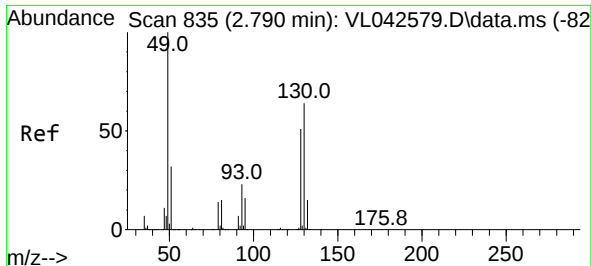
Instrument :
MSVOA_L
ClientSampleId :
AA-3

Quant Time: Jun 17 03:04:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

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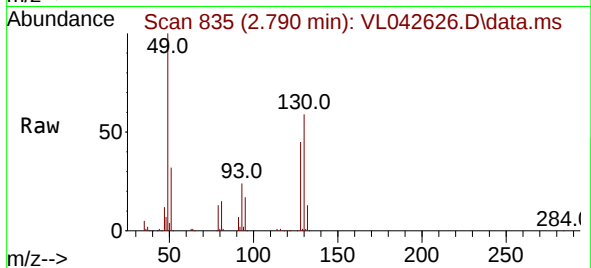
Reviewed By : Semsettin Yesilyurt 06/17/2025
Supervised By : Mahesh Dadoda 06/17/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL042626.D
Acq: 16 Jun 2025 13:27

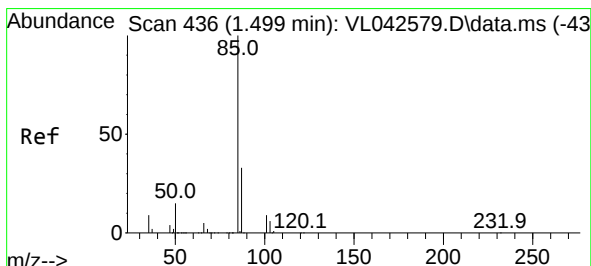
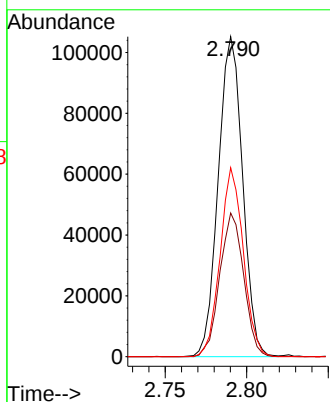
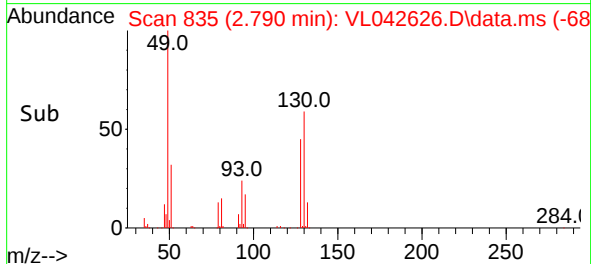
Instrument :
MSVOA_L
ClientSampleId :
AA-3



Tgt Ion: 49 Resp: 109400
Ion Ratio Lower Upper
49 100
128 44.2 24.2 72.6
130 56.2 30.4 91.2

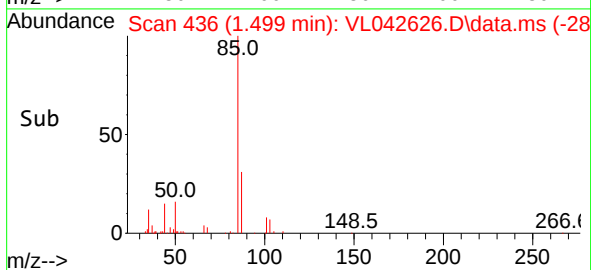
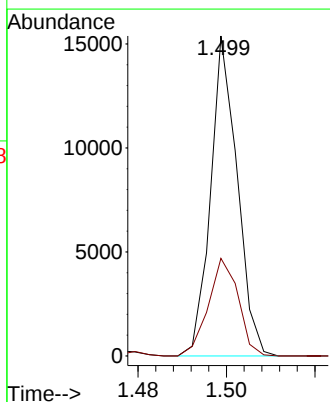
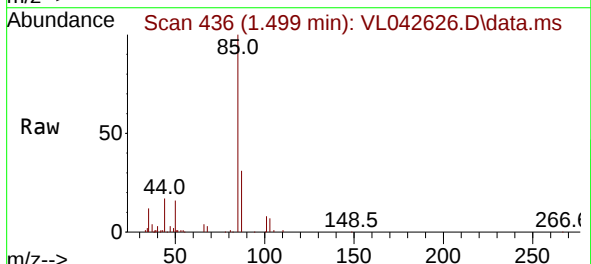
Manual Integrations
APPROVED

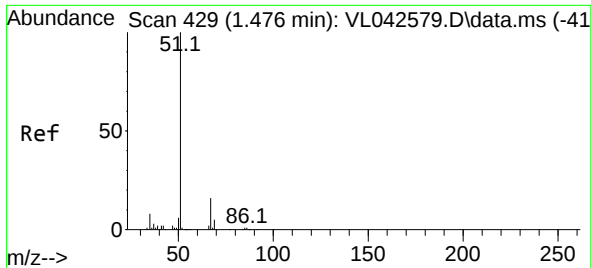
Reviewed By :Semsettin Yesilyurt 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#2
Dichlorodifluoromethane
Concen: 0.479 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042626.D
Acq: 16 Jun 2025 13:27

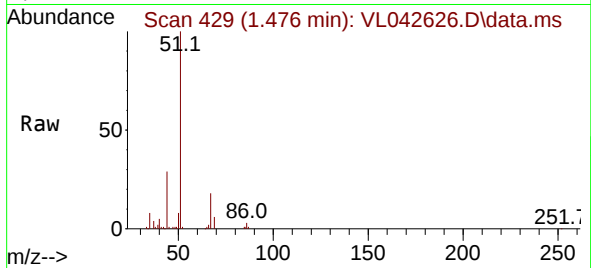
Tgt Ion: 85 Resp: 6441
Ion Ratio Lower Upper
85 100
87 30.5 26.6 39.8





#3
Chlorodifluoromethane
Concen: 0.305 ppbv m
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL042626.D
Acq: 16 Jun 2025 13:27

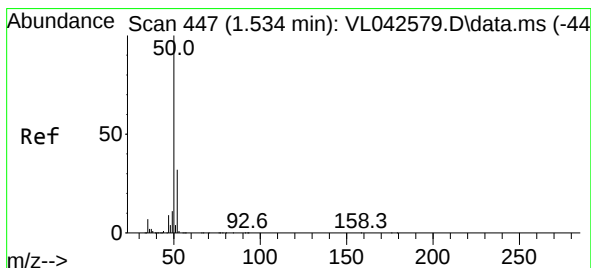
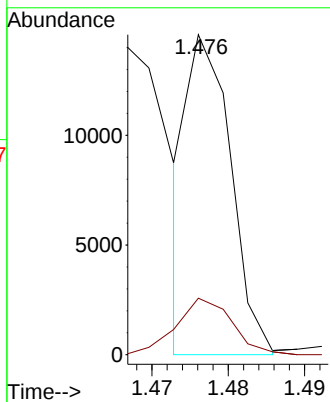
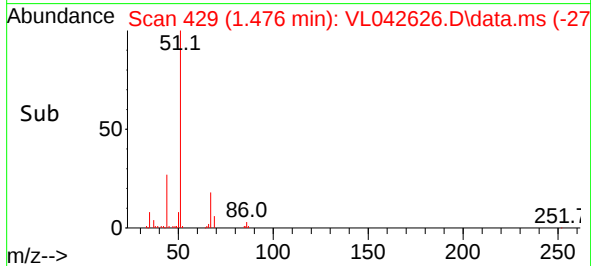
Instrument :
MSVOA_L
ClientSampleId :
AA-3



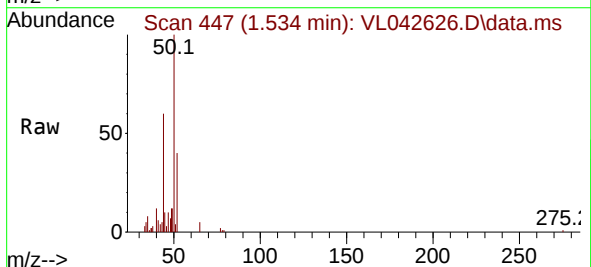
Tgt Ion: 51 Resp: 5648
Ion Ratio Lower Upper
51 100
67 1.4 13.4 20.2

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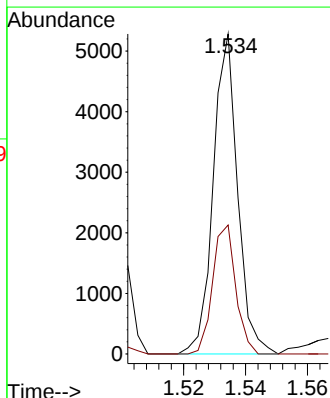
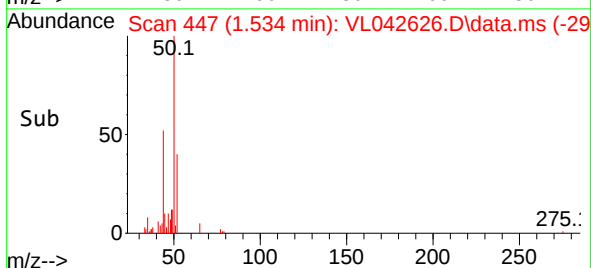
Reviewed By :Semsettin Yesilyurt 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025

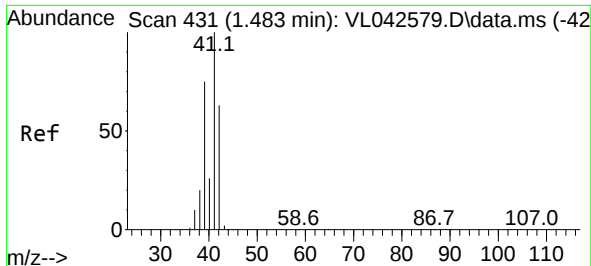


#4
Chloromethane
Concen: 0.542 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL042626.D
Acq: 16 Jun 2025 13:27



Tgt Ion: 50 Resp: 2886
Ion Ratio Lower Upper
50 100
52 40.3 25.8 38.6





#9

Propene

Concen: 0.644 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042626.D

Acq: 16 Jun 2025 13:27

Instrument :

MSVOA_L

ClientSampleId :

AA-3

Tgt Ion: 41 Resp: 480

Ion Ratio Lower Upper

41 100

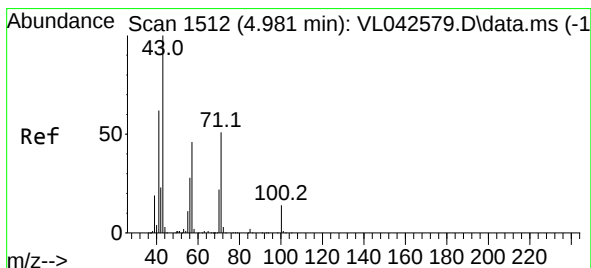
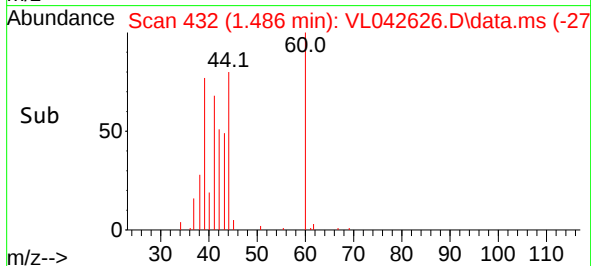
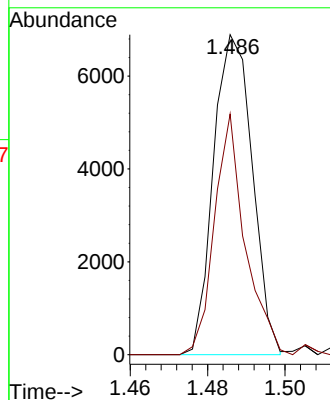
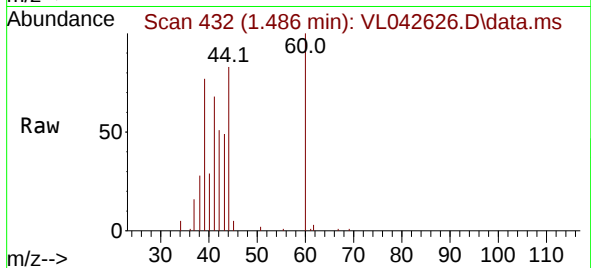
42 60.7 53.3 79.9

Manual Integrations

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#10

Heptane

Concen: 0.149 ppbv m

RT: 4.975 min Scan# 1510

Delta R.T. -0.007 min

Lab File: VL042626.D

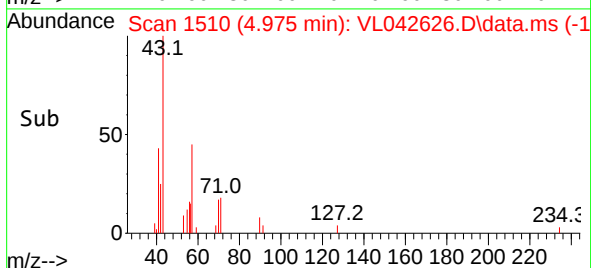
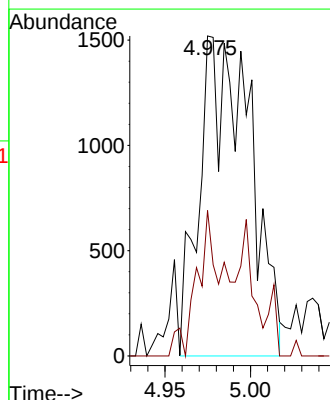
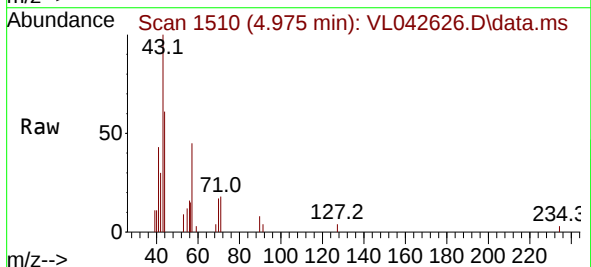
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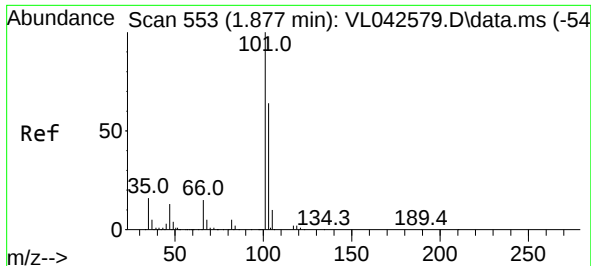
Tgt Ion: 43 Resp: 3134

Ion Ratio Lower Upper

43 100

57 0.0 38.9 58.3#





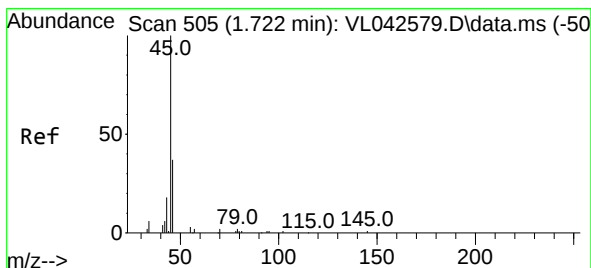
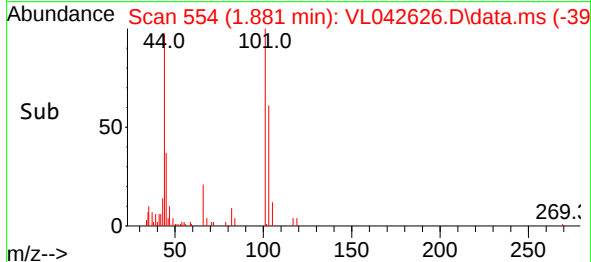
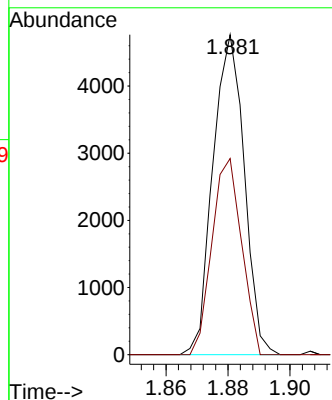
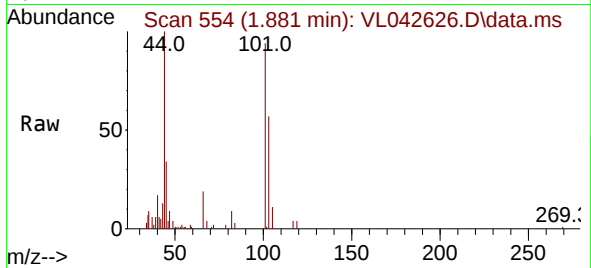
#11
Trichlorofluoromethane
Concen: 0.267 ppbv
RT: 1.881 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042626.D
Acq: 16 Jun 2025 13:27

Instrument :
MSVOA_L
ClientSampleId :
AA-3

Tgt Ion:101 Resp: 334
Ion Ratio Lower Upper
101 100
103 61.3 51.5 77.3

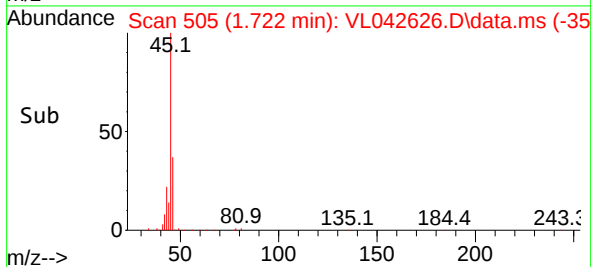
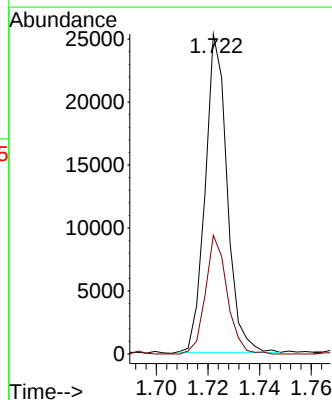
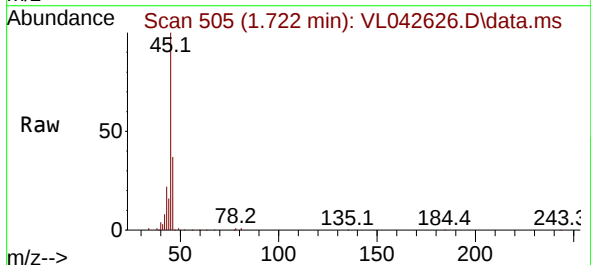
Manual Integrations
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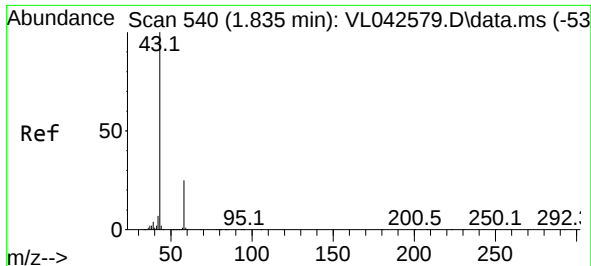
Reviewed By :Semsettin Yesilyurt 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#13
Ethanol
Concen: 16.727 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL042626.D
Acq: 16 Jun 2025 13:27

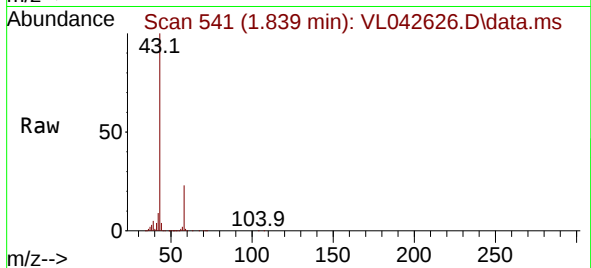
Tgt Ion: 45 Resp: 14866
Ion Ratio Lower Upper
45 100
46 36.9 14.5 58.1





#15
Acetone
Concen: 10.243 ppbv
RT: 1.839 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042626.D
Acq: 16 Jun 2025 13:27

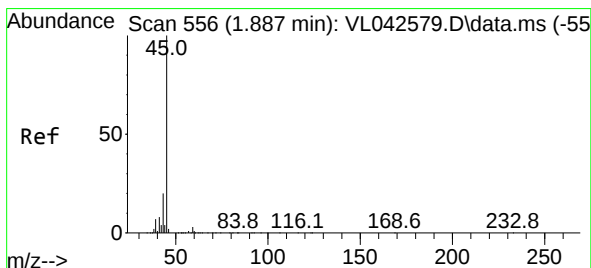
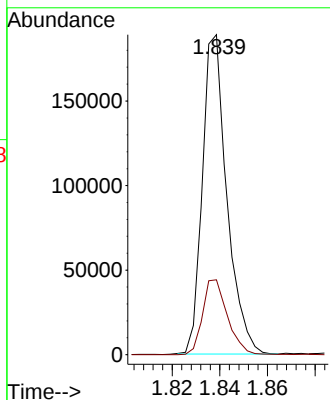
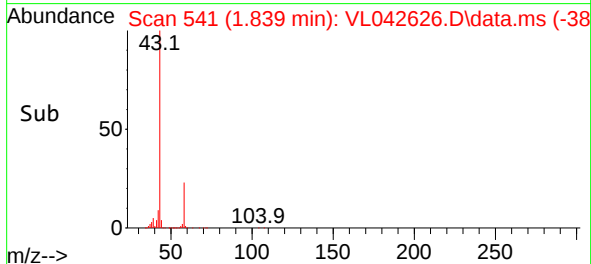
Instrument :
MSVOA_L
ClientSampleId :
AA-3



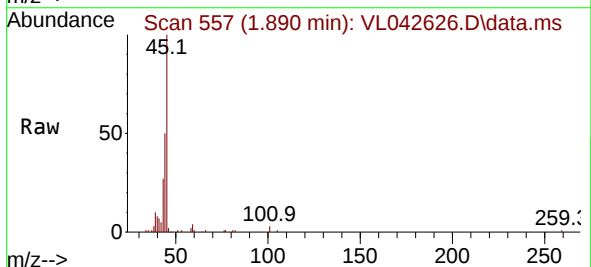
Tgt Ion: 43 Resp: 13498
Ion Ratio Lower Upper
43 100
58 24.0 21.0 31.4

Manual Integrations
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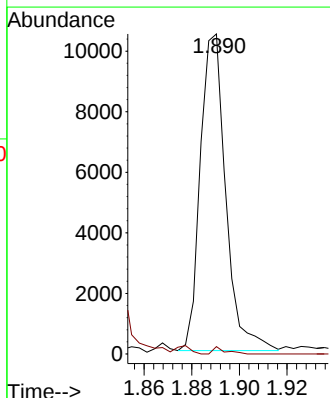
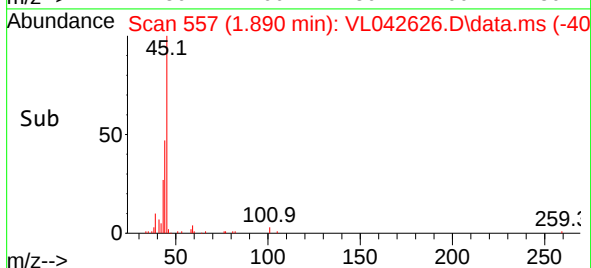
Reviewed By :Semsettin Yesilyurt 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025

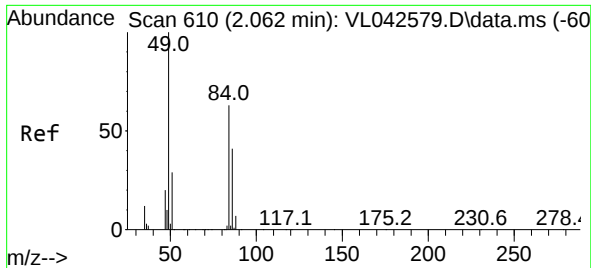


#19
Isopropyl Alcohol
Concen: 0.990 ppbv
RT: 1.890 min Scan# 557
Delta R.T. 0.003 min
Lab File: VL042626.D
Acq: 16 Jun 2025 13:27



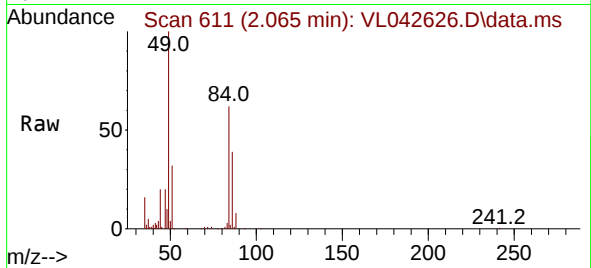
Tgt Ion: 45 Resp: 7796
Ion Ratio Lower Upper
45 100
58 416.4 29.4 44.2#





#20
Methylene Chloride
Concen: 2.984 ppbv
RT: 2.065 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042626.D
Acq: 16 Jun 2025 13:27

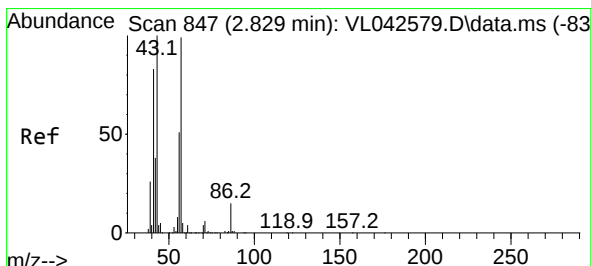
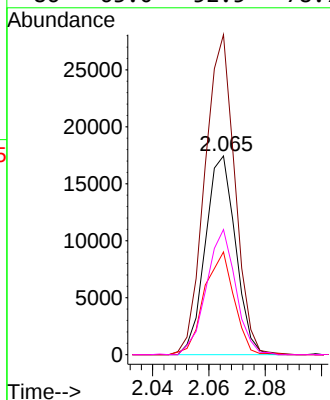
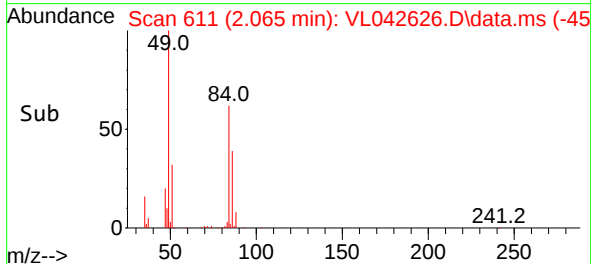
Instrument :
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ClientSampleId :
AA-3



Tgt Ion:	84	Resp:	1297
Ion	Ratio	Lower	Upper
84	100		
49	160.3	128.8	193.2
51	51.1	38.6	57.8
86	63.0	52.5	78.7

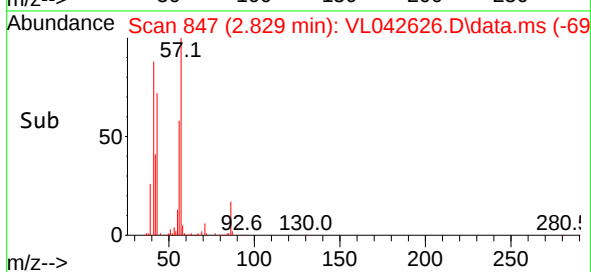
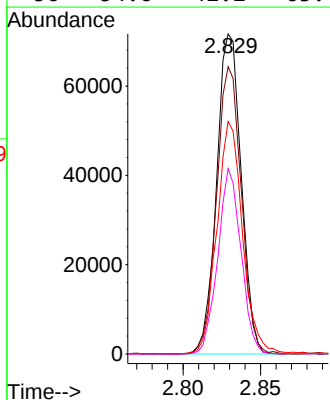
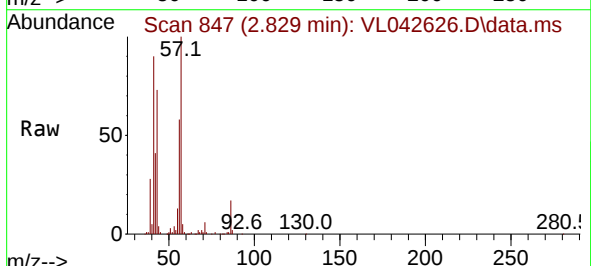
Manual Integrations
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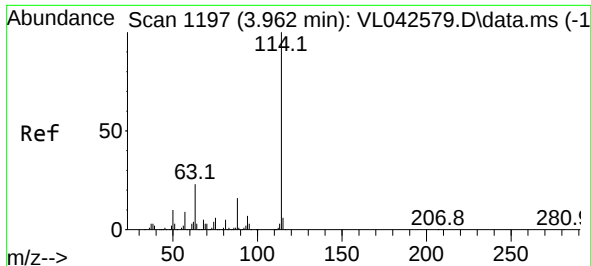
Reviewed By :Semsettin Yesilyurt 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#26
Hexane
Concen: 4.824 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.000 min
Lab File: VL042626.D
Acq: 16 Jun 2025 13:27

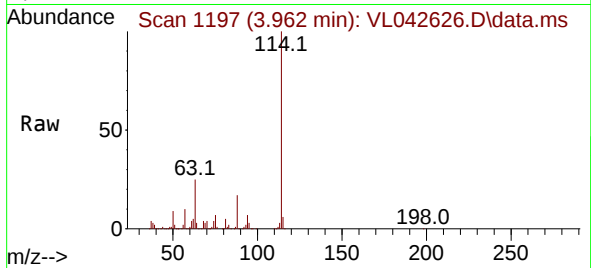
Tgt Ion:	57	Resp:	79039
Ion	Ratio	Lower	Upper
57	100		
41	90.3	70.6	106.0
43	76.2	181.1	271.7#
56	54.6	42.2	63.4





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. -0.000 min
Lab File: VL042626.D
Acq: 16 Jun 2025 13:27

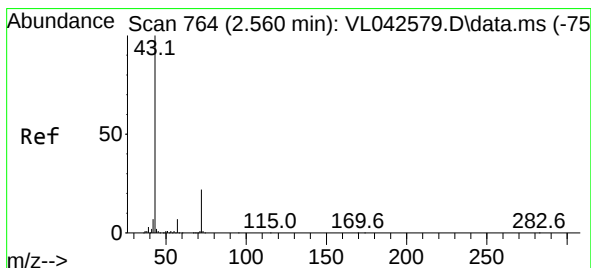
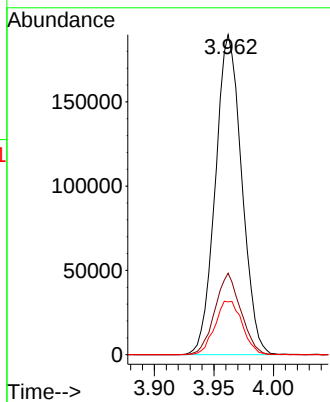
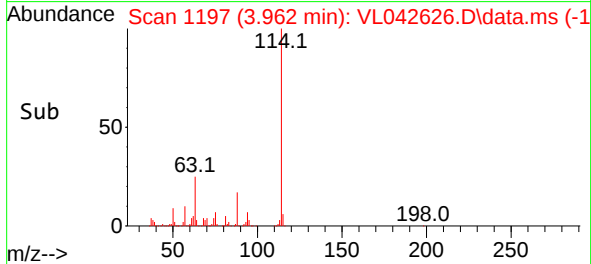
Instrument :
MSVOA_L
ClientSampleId :
AA-3



Tgt Ion:114 Resp: 291899
Ion Ratio Lower Upper
114 100
63 25.0 19.0 28.6
88 17.4 13.6 20.4

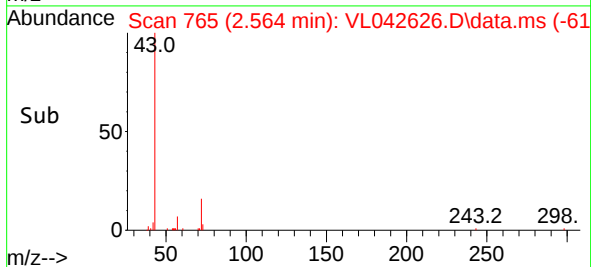
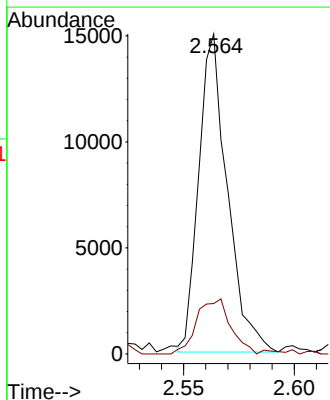
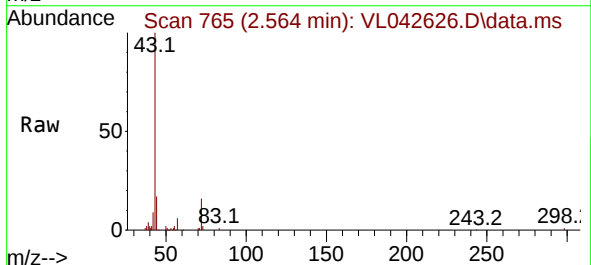
Manual Integrations
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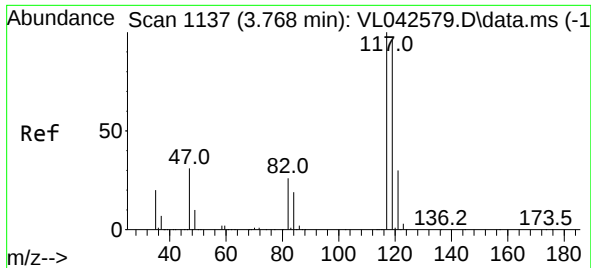
Reviewed By :Semsettin Yesilyurt 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#34
2-Butanone
Concen: 0.649 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.003 min
Lab File: VL042626.D
Acq: 16 Jun 2025 13:27

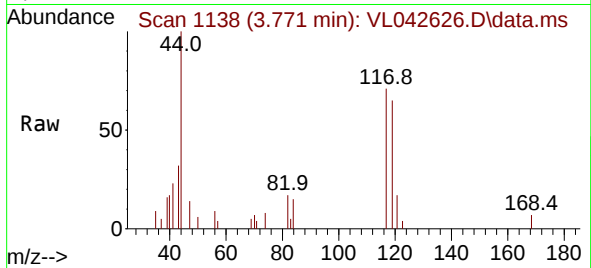
Tgt Ion: 43 Resp: 13517
Ion Ratio Lower Upper
43 100
72 21.7 17.7 26.5





#35
Carbon Tetrachloride
Concen: 0.075 ppbv m
RT: 3.771 min Scan# 1137
Delta R.T. 0.003 min
Lab File: VL042626.D
Acq: 16 Jun 2025 13:27

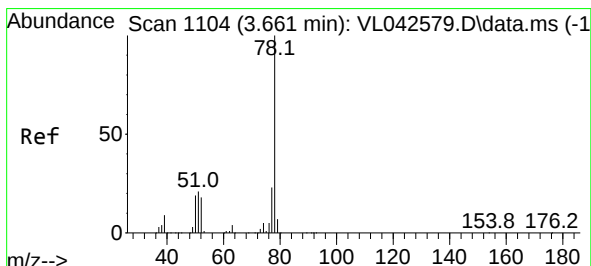
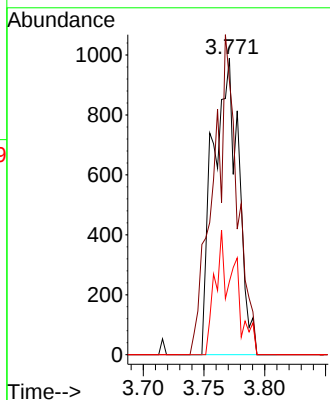
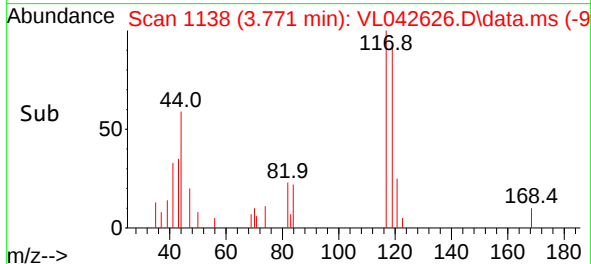
Instrument :
MSVOA_L
ClientSampleId :
AA-3



Tgt Ion:117 Resp: 1448
Ion Ratio Lower Upper
117 100
119 92.3 76.8 115.2
121 24.6 24.3 36.5

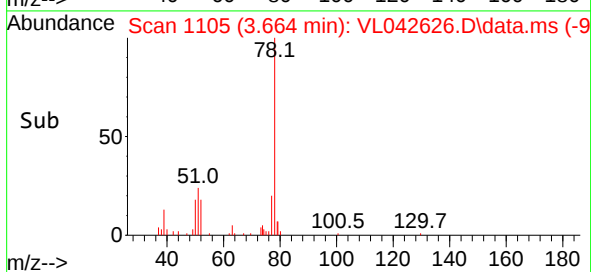
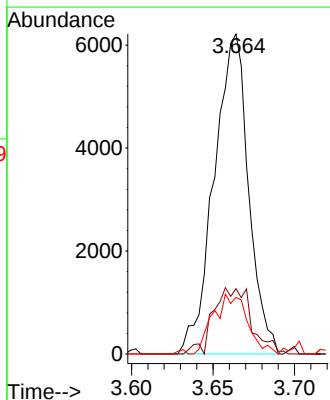
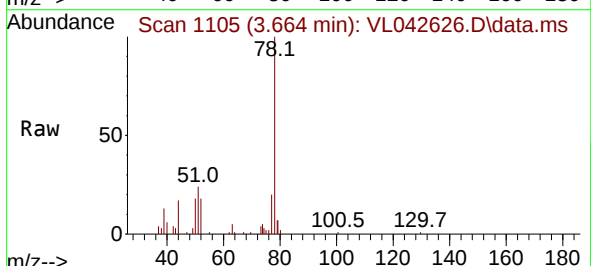
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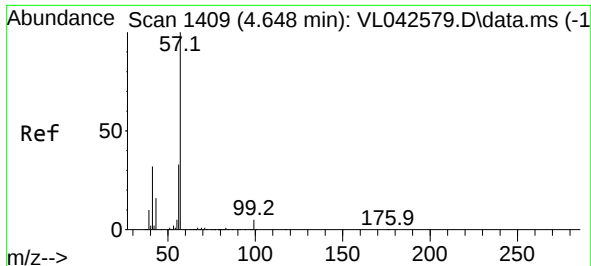
Reviewed By :Semsettin Yesilyurt 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#36
Benzene
Concen: 0.318 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.003 min
Lab File: VL042626.D
Acq: 16 Jun 2025 13:27

Tgt Ion: 78 Resp: 9139
Ion Ratio Lower Upper
78 100
77 20.4 18.2 27.2
50 17.6 15.2 22.8





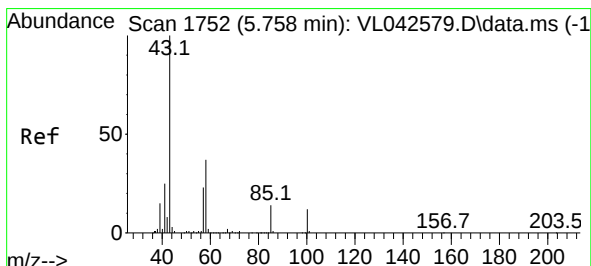
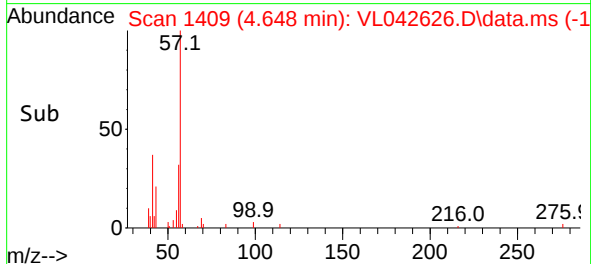
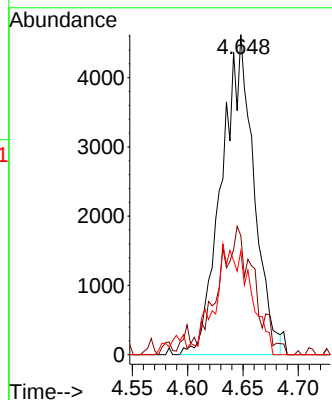
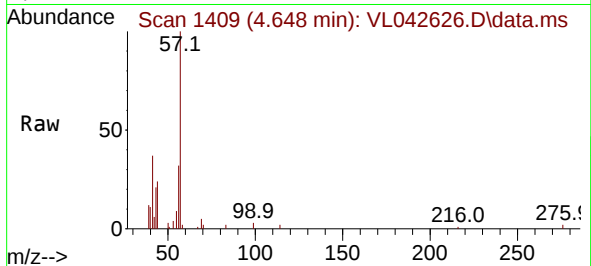
#44
2,2,4-Trimethylpentane
Concen: 0.191 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. -0.000 min
Lab File: VL042626.D
Acq: 16 Jun 2025 13:27

Instrument :
MSVOA_L
ClientSampleId :
AA-3

Tgt Ion: 57 Resp: 937
Ion Ratio Lower Upper
57 100
41 46.6 26.1 39.1
56 40.9 25.9 38.9

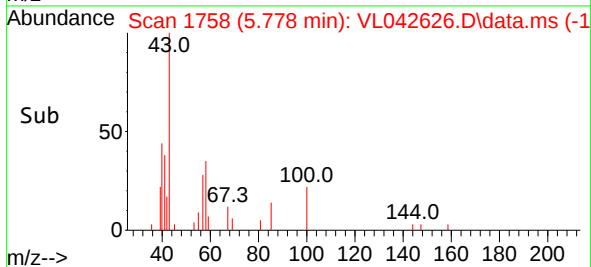
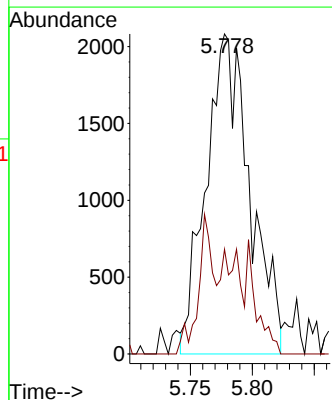
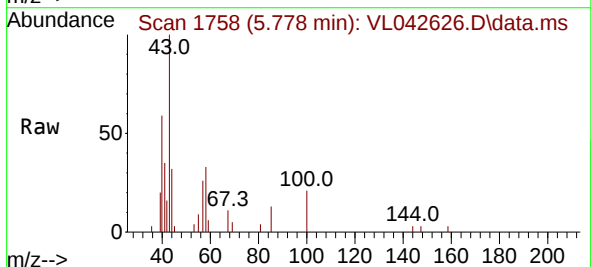
Manual Integrations
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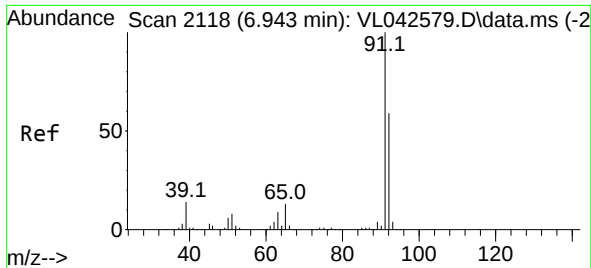
Reviewed By :Semsettin Yesilyurt 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#50
4-Methyl-2-Pentanone
Concen: 0.179 ppbv m
RT: 5.778 min Scan# 1758
Delta R.T. 0.019 min
Lab File: VL042626.D
Acq: 16 Jun 2025 13:27

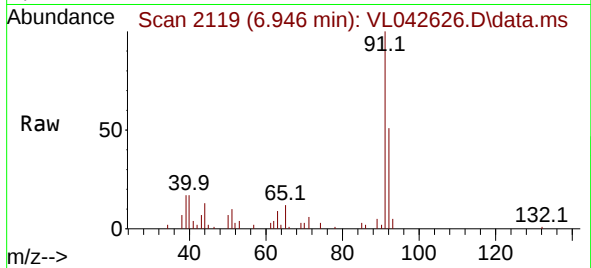
Tgt Ion: 43 Resp: 5159
Ion Ratio Lower Upper
43 100
58 36.7 28.3 42.5





#53
Toluene
Concen: 0.461 ppbv
RT: 6.946 min Scan# 2118
Delta R.T. 0.003 min
Lab File: VL042626.D
Acq: 16 Jun 2025 13:27

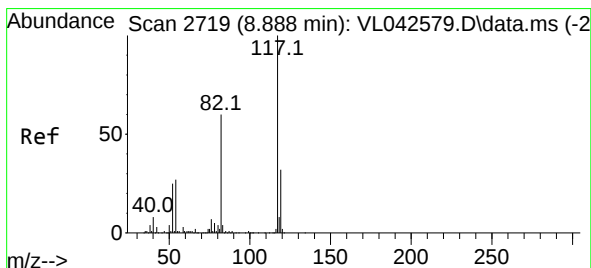
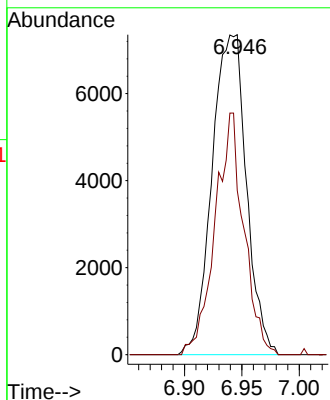
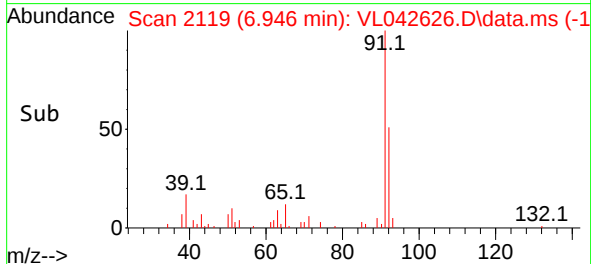
Instrument :
MSVOA_L
ClientSampleId :
AA-3



Tgt Ion: 91 Resp: 1533
Ion Ratio Lower Upper
91 100
92 63.0 48.2 72.4

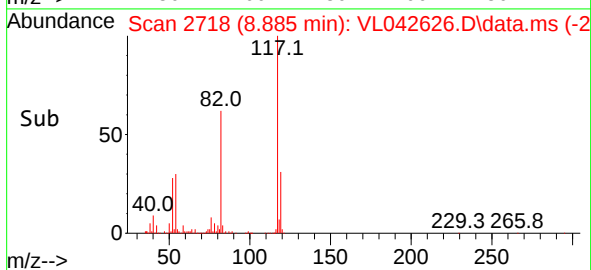
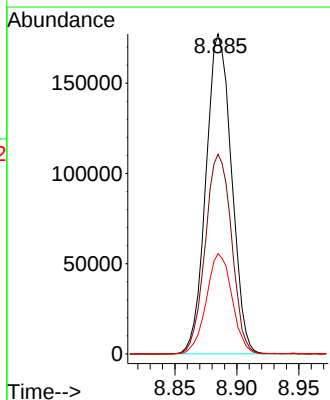
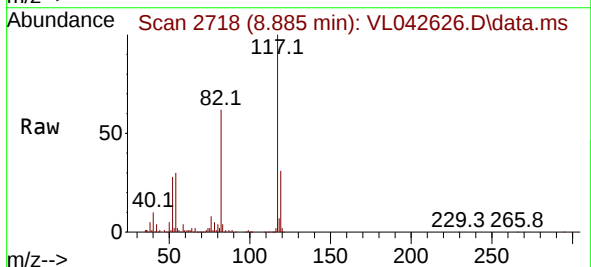
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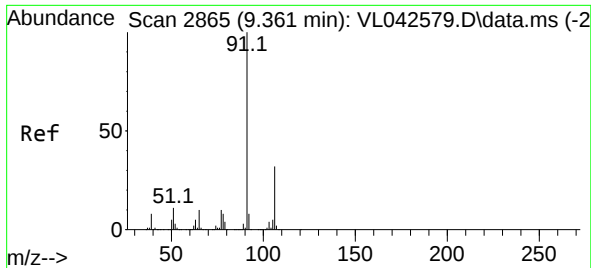
Reviewed By :Semsettin Yesilyurt 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. -0.003 min
Lab File: VL042626.D
Acq: 16 Jun 2025 13:27

Tgt Ion:117 Resp: 254916
Ion Ratio Lower Upper
117 100
82 64.4 51.2 76.8
119 31.6 26.3 39.5





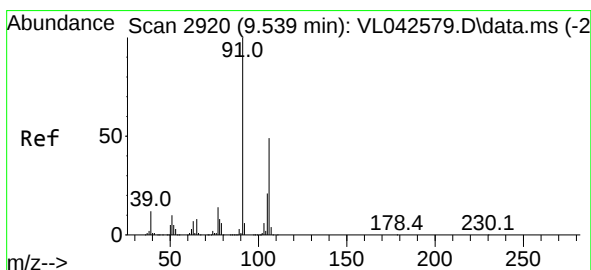
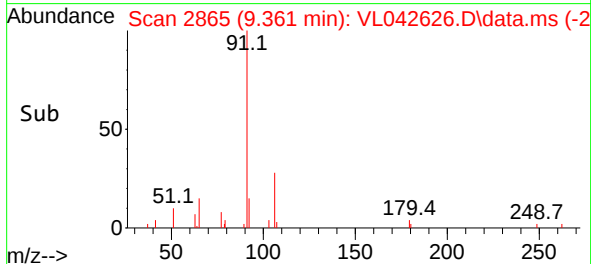
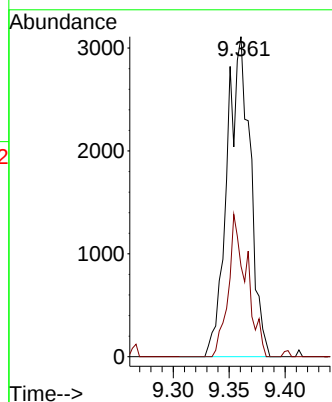
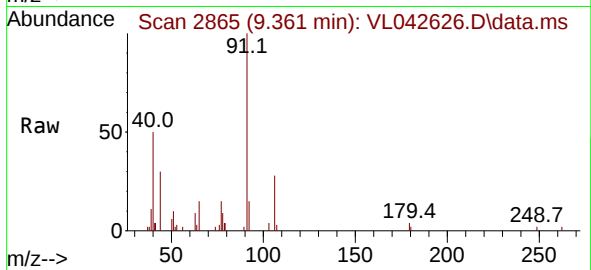
#58
Ethyl Benzene
Concen: 0.104 ppbv m
RT: 9.361 min Scan# 2119
Delta R.T. -0.000 min
Lab File: VL042626.D
Acq: 16 Jun 2025 13:27

Instrument :
MSVOA_L
ClientSampleId :
AA-3

Tgt Ion: 91 Resp: 4480
Ion Ratio Lower Upper
91 100
106 28.3 25.9 38.9

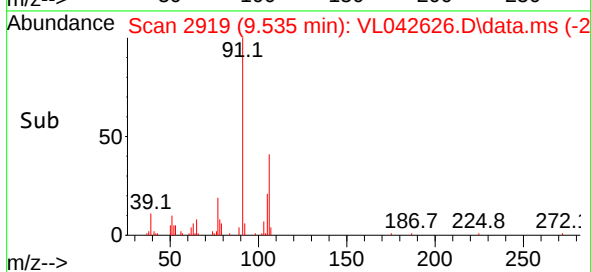
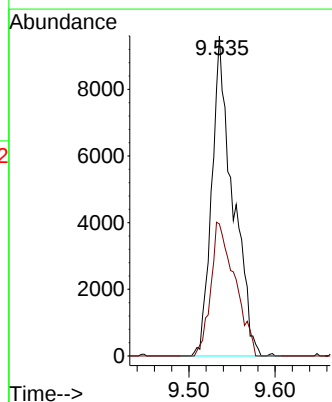
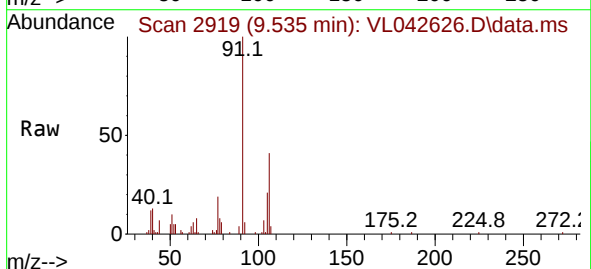
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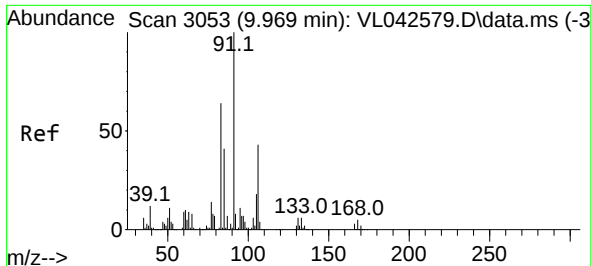
Reviewed By :Semsettin Yesilyurt 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#59
m/p-Xylene
Concen: 0.478 ppbv m
RT: 9.535 min Scan# 2919
Delta R.T. -0.003 min
Lab File: VL042626.D
Acq: 16 Jun 2025 13:27

Tgt Ion: 91 Resp: 16281
Ion Ratio Lower Upper
91 100
106 47.8 38.8 58.2





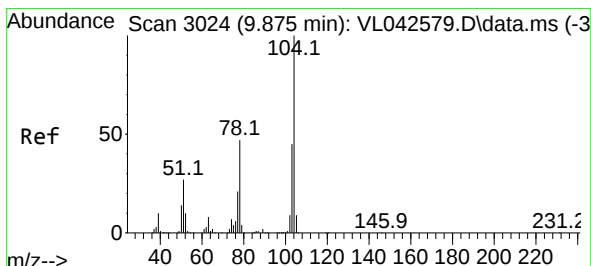
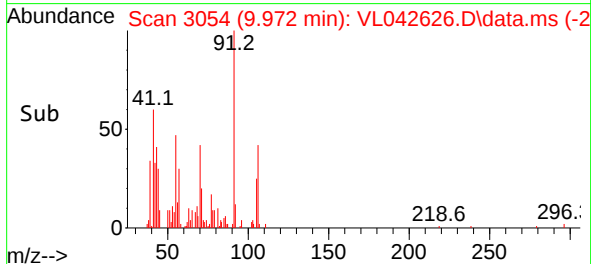
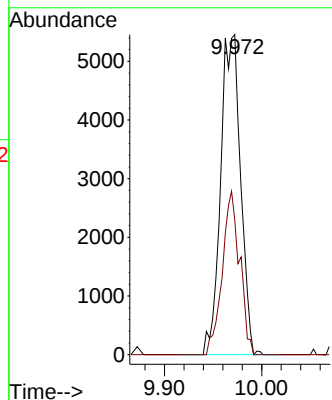
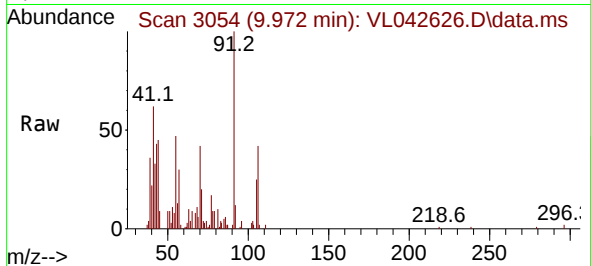
#60
o-Xylene
Concen: 0.229 ppbv m
RT: 9.972 min Scan# 3054
Delta R.T. 0.003 min
Lab File: VL042626.D
Acq: 16 Jun 2025 13:27

Instrument :
MSVOA_L
ClientSampleId :
AA-3

Tgt Ion: 91 Resp: 7762
Ion Ratio Lower Upper
91 100
106 100.3 22.9 68.5

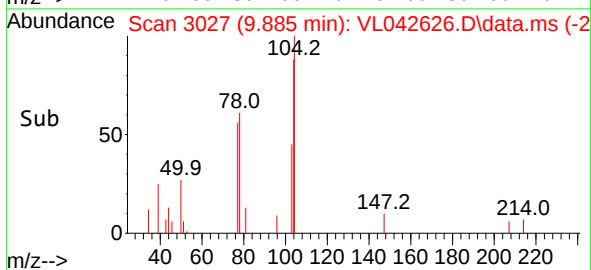
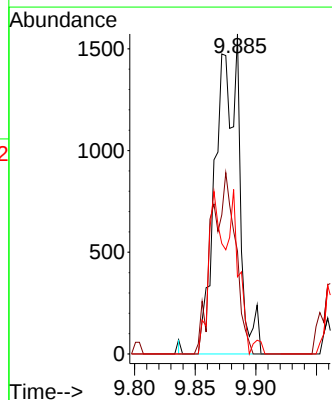
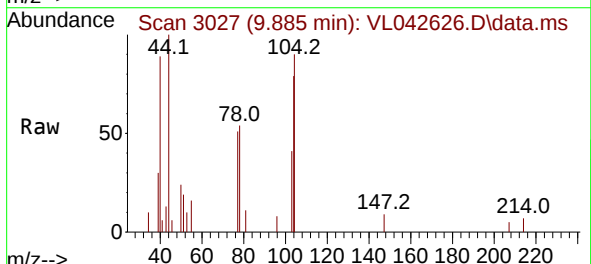
Manual Integrations
APPROVED

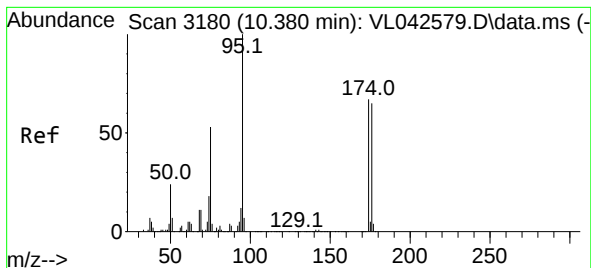
Reviewed By :Semsettin Yesilyurt 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#61
Styrene
Concen: 0.129 ppbv m
RT: 9.885 min Scan# 3027
Delta R.T. 0.010 min
Lab File: VL042626.D
Acq: 16 Jun 2025 13:27

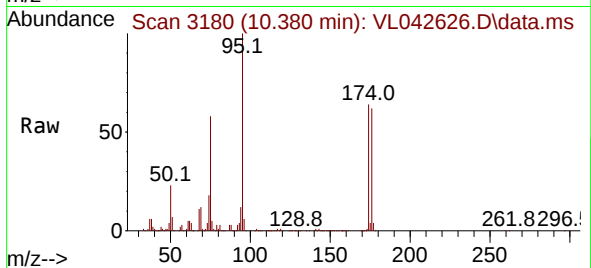
Tgt Ion:104 Resp: 2066
Ion Ratio Lower Upper
104 100
78 58.4 38.2 57.4#
103 0.0 36.7 55.1#





#68
1-Bromo-4-Fluorobenzene
Concen: 10.311 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. -0.000 min
Lab File: VL042626.D
Acq: 16 Jun 2025 13:27

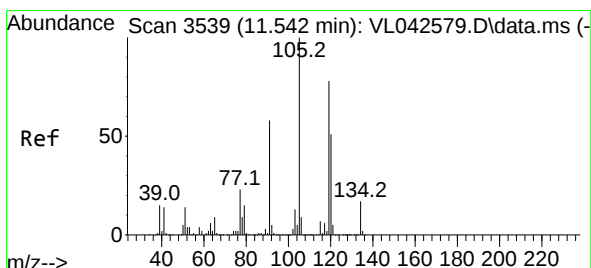
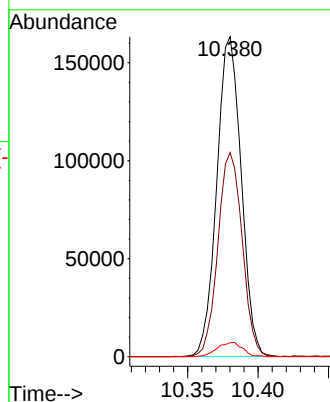
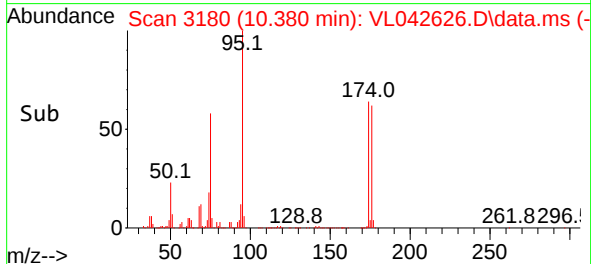
Instrument :
MSVOA_L
ClientSampleId :
AA-3



Tgt Ion: 95 Resp: 19703
Ion Ratio Lower Upper
95 100
174 63.6 53.1 79.7
175 4.7 4.2 6.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.172 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.007 min
Lab File: VL042626.D
Acq: 16 Jun 2025 13:27

Tgt Ion:105 Resp: 6700
Ion Ratio Lower Upper
105 100
120 36.4 40.8 61.2#
91 17.0 46.8 70.2#
77 16.5 18.2 27.2#

