

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061625\
 Data File : VL042627.D
 Acq On : 16 Jun 2025 14:01
 Operator : SY/MD
 Sample : Q2317-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-3DUP

Manual Integrations
 APPROVED

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

Quant Time: Jun 17 03:05:15 2025

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

Quant Title : AIR ANALYSIS BY METHOD T0-15 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	2.784	49	104604	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	283556	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	252613	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	194543	10.273	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	6247	0.486	ppbv	95
3) Chlorodifluoromethane	1.476	51	6508m	0.368	ppbv	
4) Chloromethane	1.531	50	2768	0.544	ppbv	91
9) Propene	1.486	41	5228	0.733	ppbv	95
10) Heptane	4.978	43	2963m	0.147	ppbv	
11) Trichlorofluoromethane	1.877	101	3327	0.278	ppbv	97
13) Ethanol	1.719	45	14346	16.882	ppbv	94
15) Acetone	1.835	43	134074	10.641	ppbv	97
19) Isopropyl Alcohol	1.887	45	7289	0.968	ppbv #	1
20) Methylene Chloride	2.062	84	13551	3.259	ppbv	94
26) Hexane	2.826	57	77534	4.949	ppbv #	43
34) 2-Butanone	2.560	43	12371	0.612	ppbv	96
35) Carbon Tetrachloride	3.761	117	1470m	0.079	ppbv	
36) Benzene	3.651	78	8632	0.309	ppbv #	91
44) 2,2,4-Trimethylpentane	4.638	57	8510m	0.178	ppbv	
50) 4-Methyl-2-Pentanone	5.771	43	5141m	0.183	ppbv	
53) Toluene	6.927	91	15439m	0.478	ppbv	
58) Ethyl Benzene	9.354	91	4800	0.112	ppbv #	86
59) m/p-Xylene	9.526	91	17094	0.507	ppbv	96
60) o-Xylene	9.963	91	7978	0.237	ppbv	94
61) Styrene	9.869	104	2265	0.142	ppbv	91
74) 1,2,4-Trimethylbenzene	11.532	105	6660	0.173	ppbv #	70

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

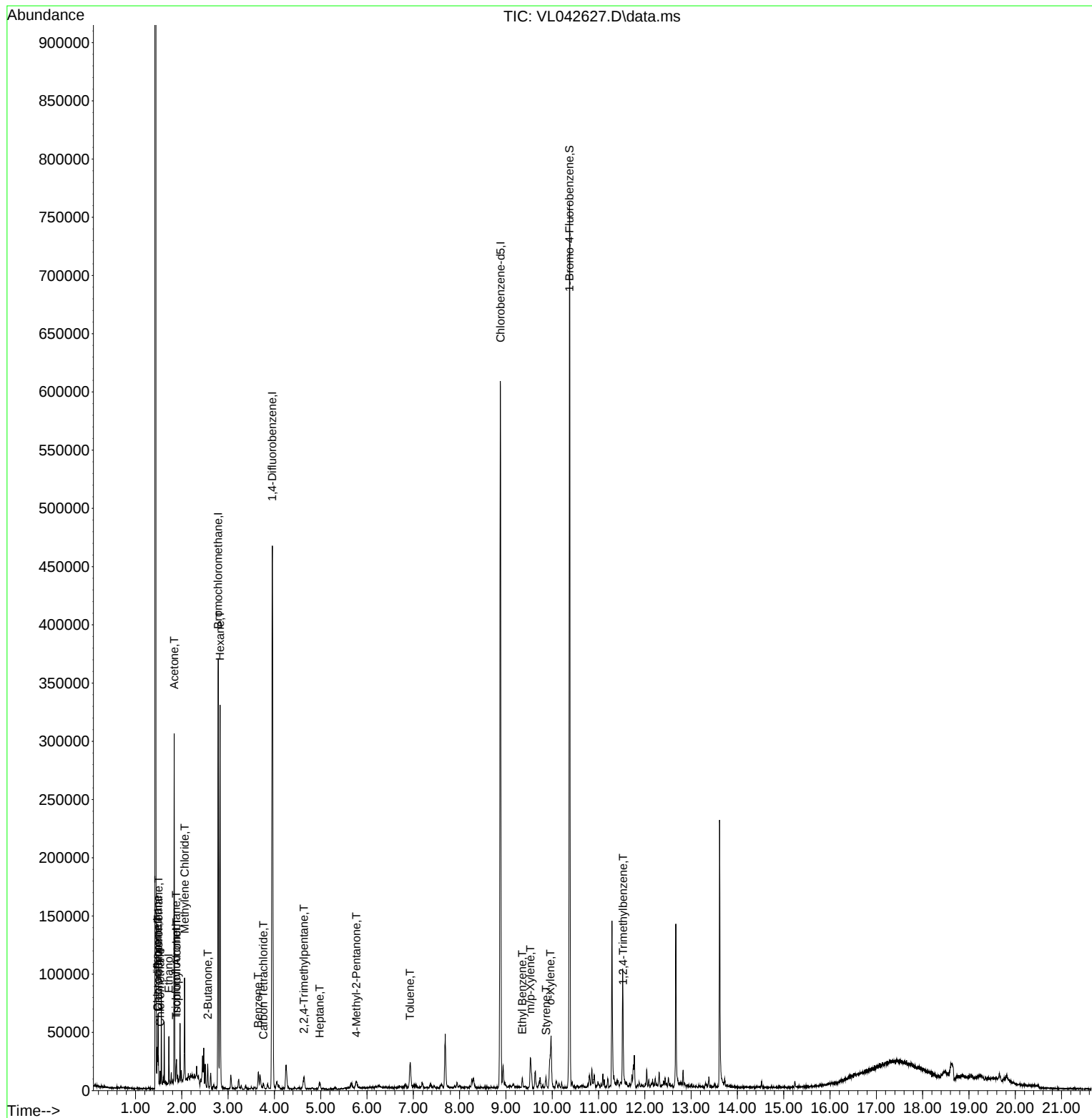
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061625\
Data File : VL042627.D
Acq On : 16 Jun 2025 14:01
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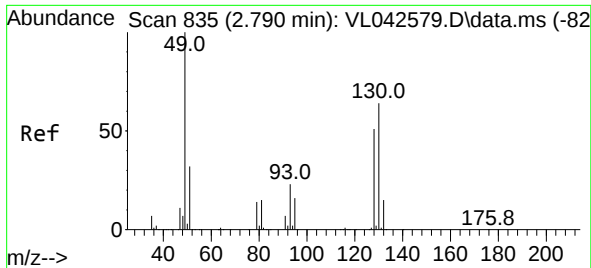
Instrument :
MSVOA_L
ClientSampleId :
AA-3DUP

Quant Time: Jun 17 03:05:15 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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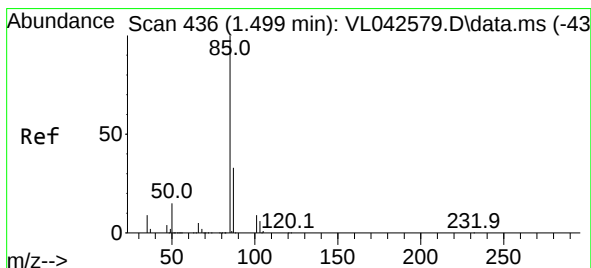
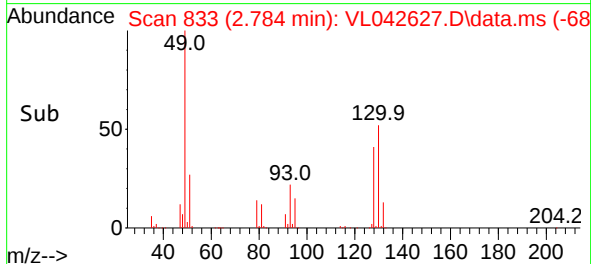
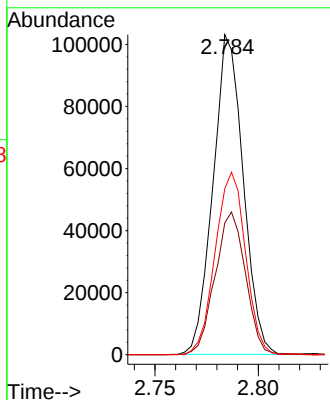
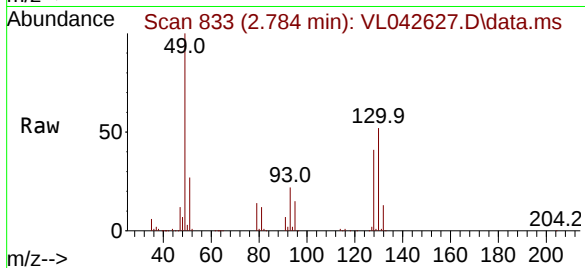
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.006 min
Lab File: VL042627.D
Acq: 16 Jun 2025 14:01

Instrument :
MSVOA_L
ClientSampleId :
AA-3DUP

Tgt Ion: 49 Resp: 104604
Ion Ratio Lower Upper
49 100
128 45.0 24.2 72.6
130 57.6 30.4 91.2

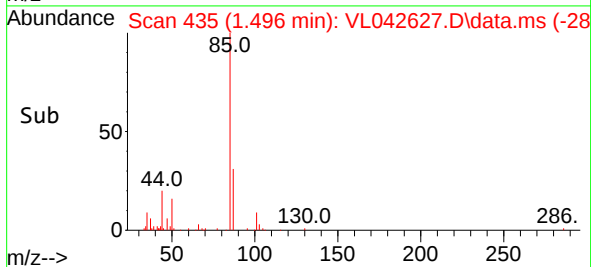
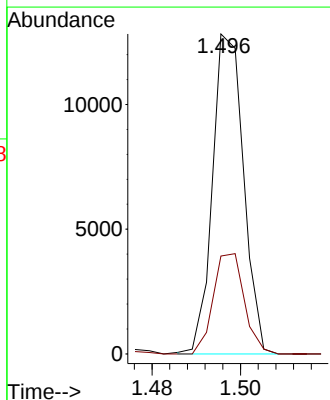
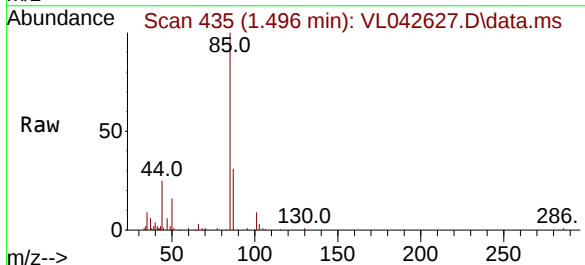
Manual Integrations
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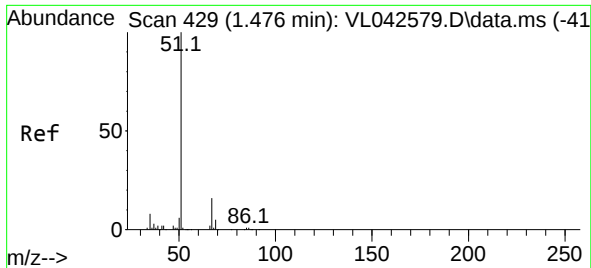
Reviewed By :Semsettin Yesilyurt 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#2
Dichlorodifluoromethane
Concen: 0.486 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042627.D
Acq: 16 Jun 2025 14:01

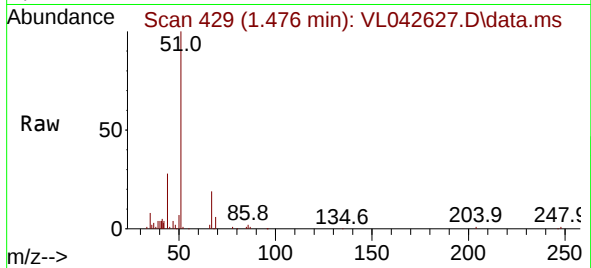
Tgt Ion: 85 Resp: 6247
Ion Ratio Lower Upper
85 100
87 30.6 26.6 39.8





#3
Chlorodifluoromethane
Concen: 0.368 ppbv m
RT: 1.476 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042627.D
Acq: 16 Jun 2025 14:01

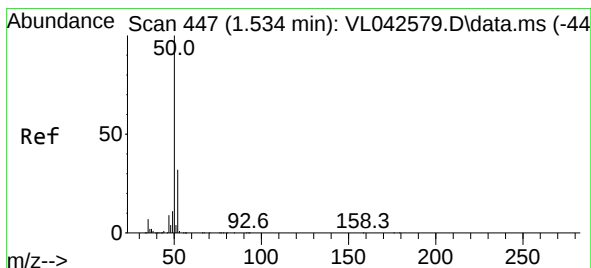
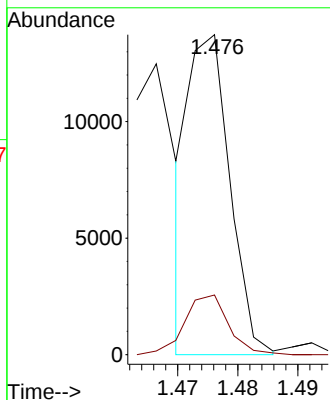
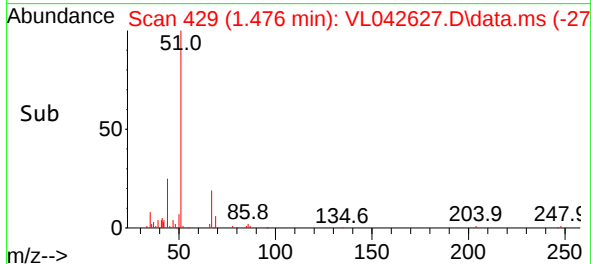
Instrument :
MSVOA_L
ClientSampleId :
AA-3DUP



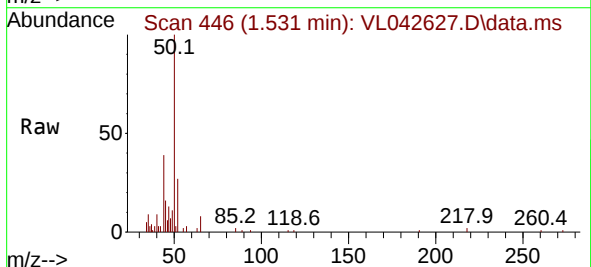
Tgt Ion: 51 Resp: 6508
Ion Ratio Lower Upper
51 100
67 21.2 13.4 20.2

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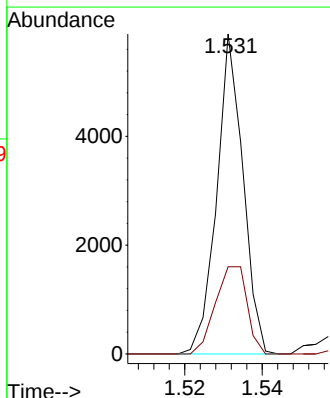
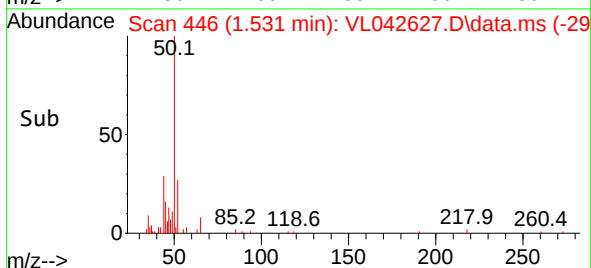
Reviewed By :Semsettin Yesilyurt 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025

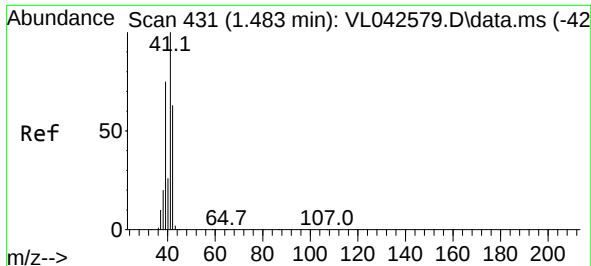


#4
Chloromethane
Concen: 0.544 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.003 min
Lab File: VL042627.D
Acq: 16 Jun 2025 14:01



Tgt Ion: 50 Resp: 2768
Ion Ratio Lower Upper
50 100
52 27.3 25.8 38.6





#9

Propene

Concen: 0.733 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042627.D

Acq: 16 Jun 2025 14:01

Instrument :

MSVOA_L

ClientSampleId :

AA-3DUP

Tgt Ion: 41 Resp: 5228

Ion Ratio Lower Upper

41 100

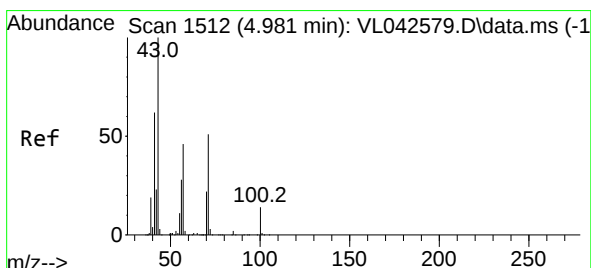
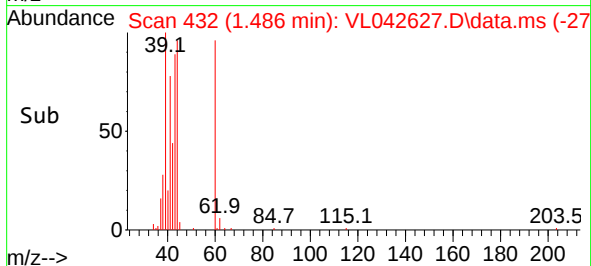
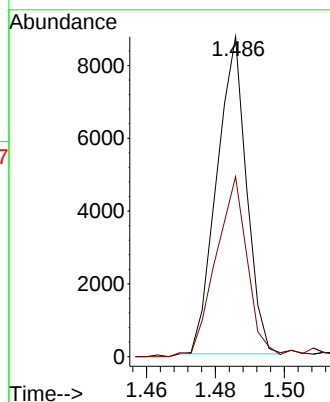
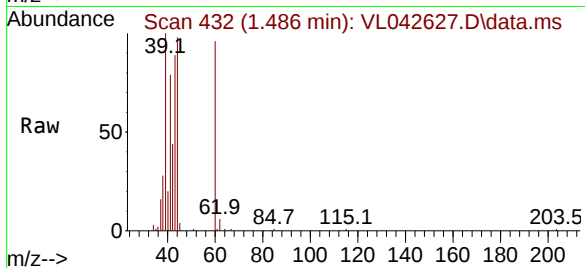
42 62.4 53.3 79.9

Manual Integrations

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Supervised By :Mahesh Dadoda 06/17/2025



#10

Heptane

Concen: 0.147 ppbv m

RT: 4.978 min Scan# 1511

Delta R.T. -0.003 min

Lab File: VL042627.D

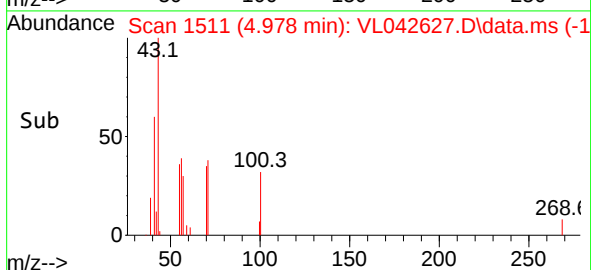
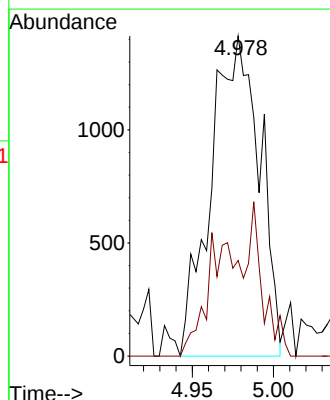
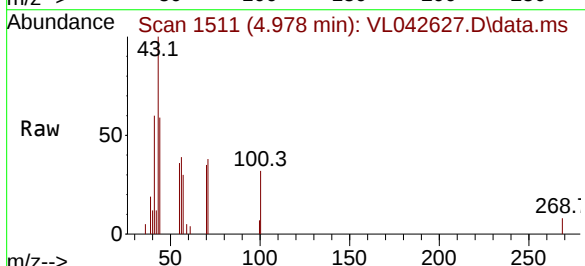
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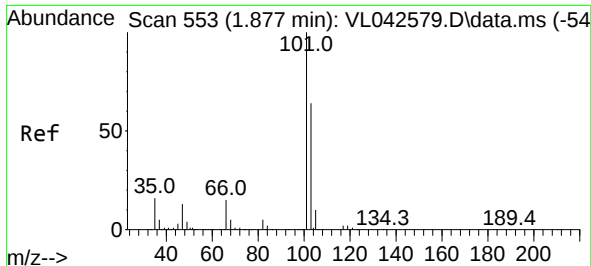
Tgt Ion: 43 Resp: 2963

Ion Ratio Lower Upper

43 100

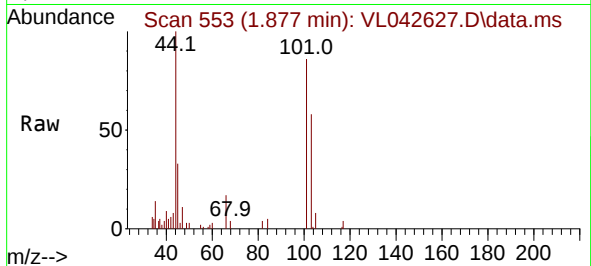
57 0.0 38.9 58.3#





#11
Trichlorofluoromethane
Concen: 0.278 ppbv
RT: 1.877 min Scan# 501
Delta R.T. -0.000 min
Lab File: VL042627.D
Acq: 16 Jun 2025 14:01

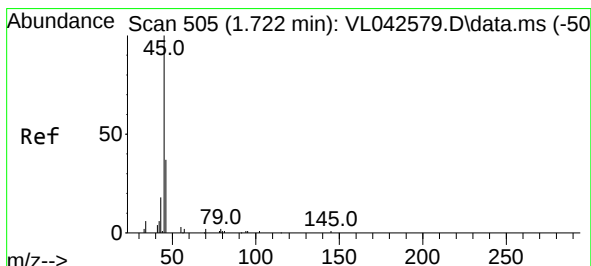
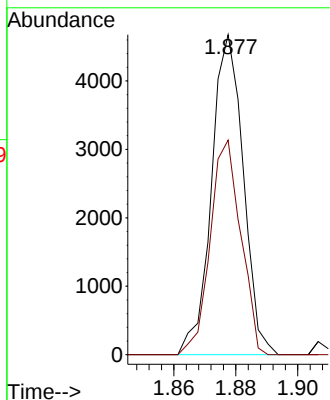
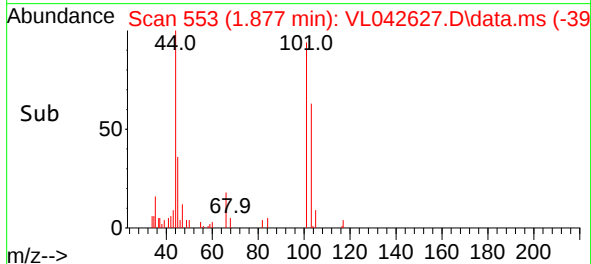
Instrument :
MSVOA_L
ClientSampleId :
AA-3DUP



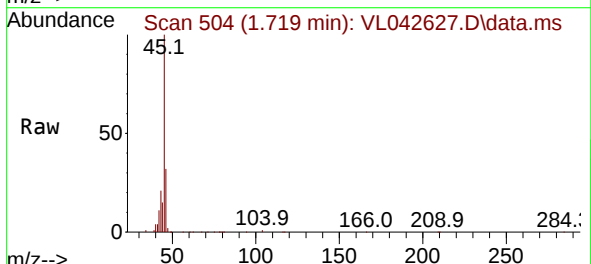
Tgt Ion:101 Resp: 332
Ion Ratio Lower Upper
101 100
103 67.0 51.5 77.3

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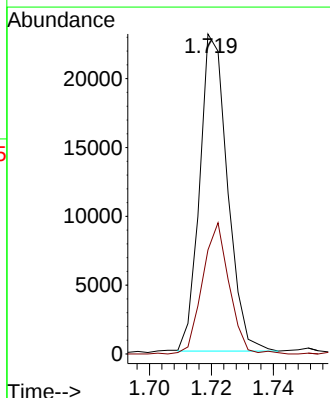
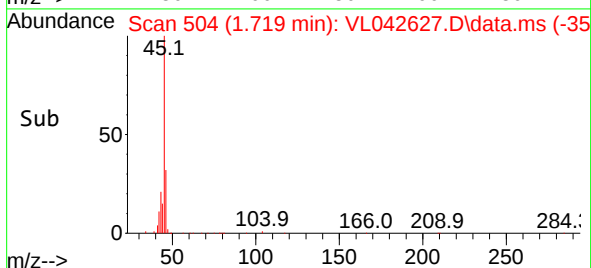
Reviewed By :Semsettin Yesilyurt 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025

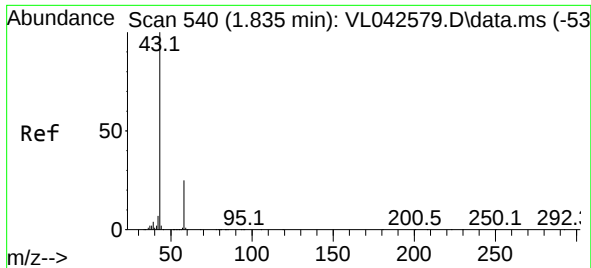


#13
Ethanol
Concen: 16.882 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.003 min
Lab File: VL042627.D
Acq: 16 Jun 2025 14:01



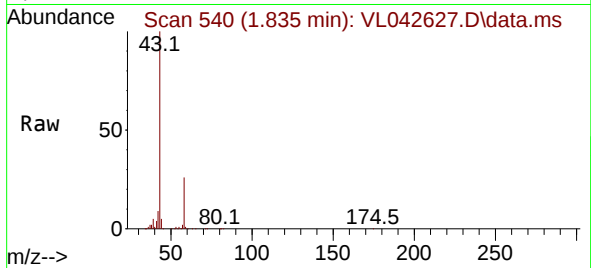
Tgt Ion: 45 Resp: 14346
Ion Ratio Lower Upper
45 100
46 39.8 14.5 58.1





#15
Acetone
Concen: 10.641 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042627.D
Acq: 16 Jun 2025 14:01

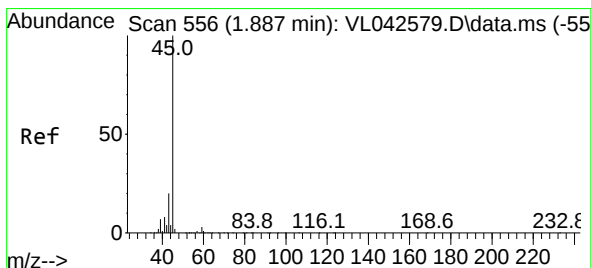
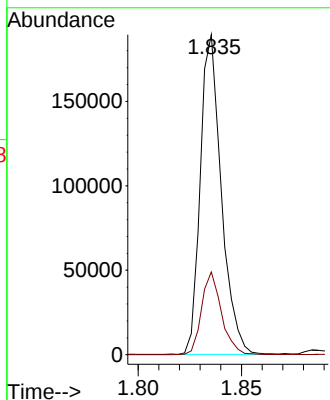
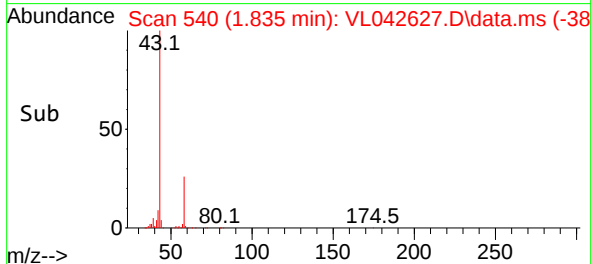
Instrument :
MSVOA_L
ClientSampleId :
AA-3DUP



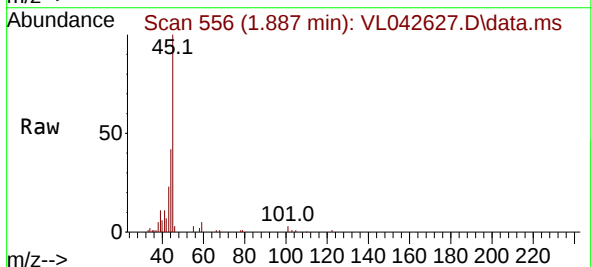
Tgt Ion: 43 Resp: 134074
Ion Ratio Lower Upper
43 100
58 24.4 21.0 31.4

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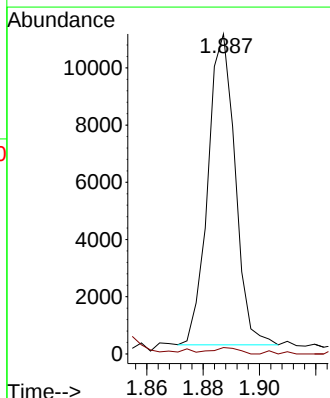
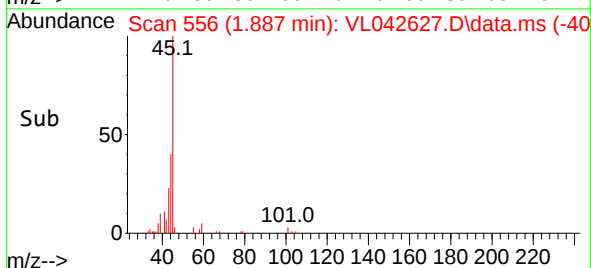
Reviewed By :Semsettin Yesilyurt 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025

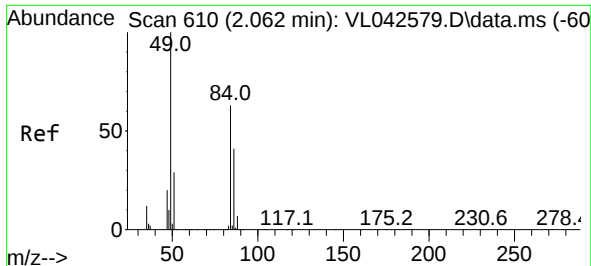


#19
Isopropyl Alcohol
Concen: 0.968 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.000 min
Lab File: VL042627.D
Acq: 16 Jun 2025 14:01



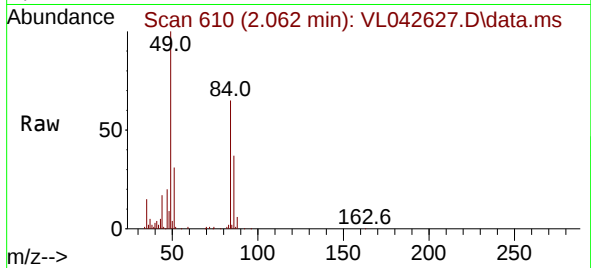
Tgt Ion: 45 Resp: 7289
Ion Ratio Lower Upper
45 100
58 449.1 29.4 44.2#





#20
Methylene Chloride
Concen: 3.259 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042627.D
Acq: 16 Jun 2025 14:01

Instrument :
MSVOA_L
ClientSampleId :
AA-3DUP

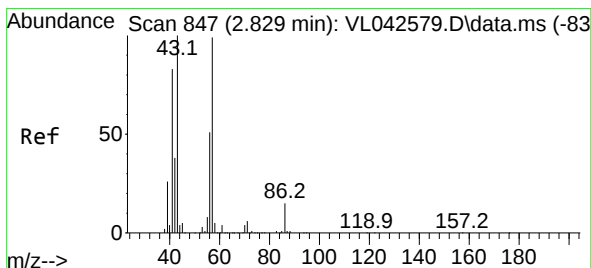
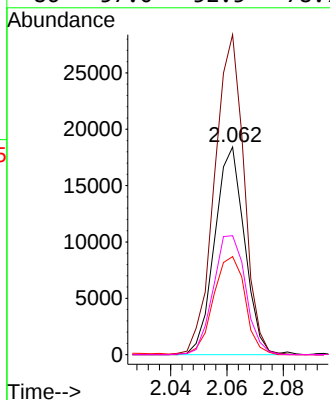
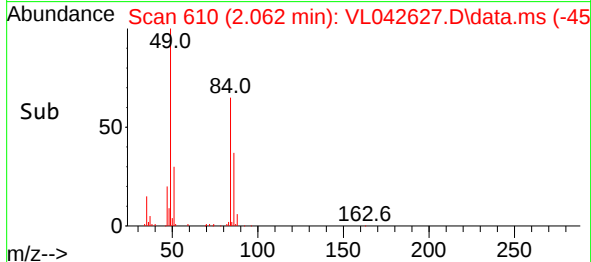


Tgt Ion: 84 Resp: 1355

Ion	Ratio	Lower	Upper
84	100		
49	153.4	128.8	193.2
51	47.2	38.6	57.8
86	57.0	52.5	78.7

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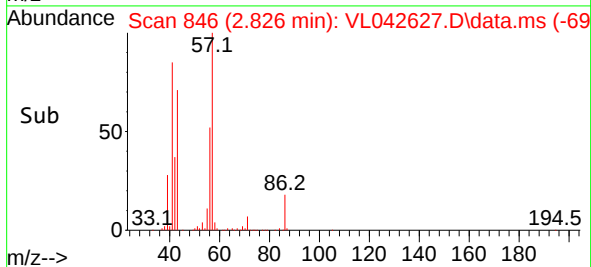
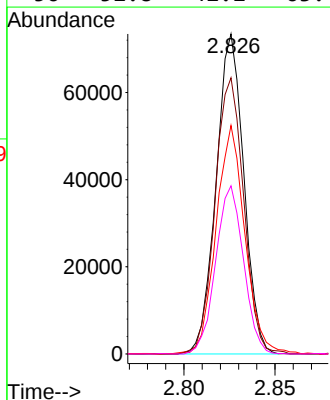
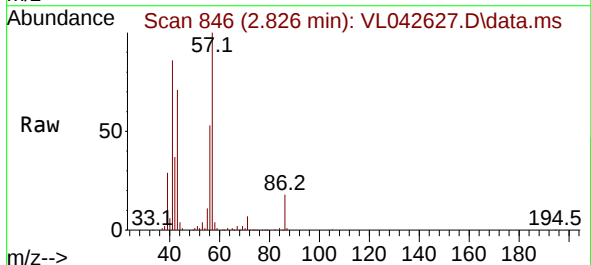
Reviewed By :Semsettin Yesilyurt 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025

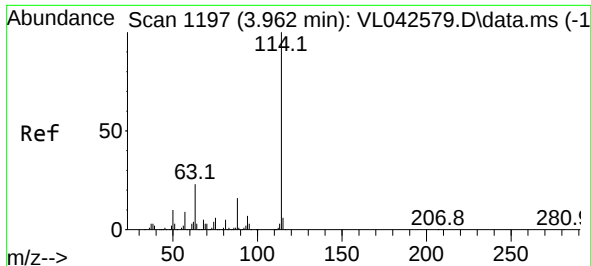


#26
Hexane
Concen: 4.949 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.003 min
Lab File: VL042627.D
Acq: 16 Jun 2025 14:01

Tgt Ion: 57 Resp: 77534

Ion	Ratio	Lower	Upper
57	100		
41	89.4	70.6	106.0
43	74.5	181.1	271.7#
56	52.8	42.2	63.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.006 min

Lab File: VL042627.D

Acq: 16 Jun 2025 14:01

Instrument :

MSVOA_L

ClientSampleId :

AA-3DUP

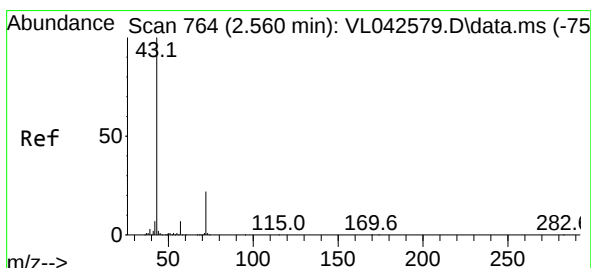
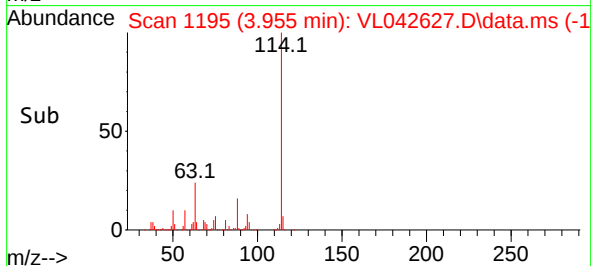
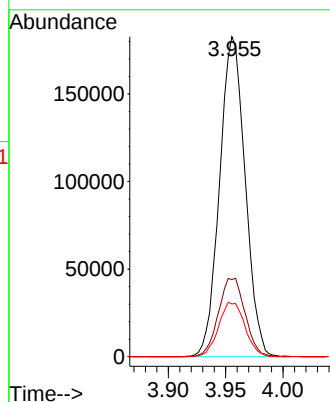
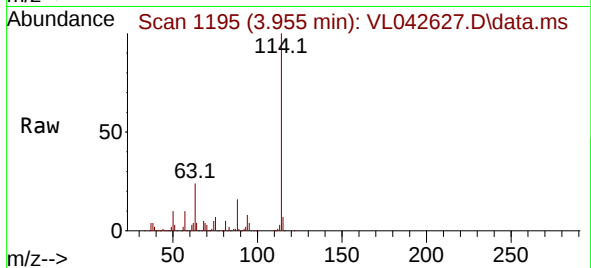
Tgt Ion:114 Resp: 283550

Ion	Ratio	Lower	Upper
114	100		
63	25.5	19.0	28.6
88	17.5	13.6	20.4

Manual Integrations

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#34

2-Butanone

Concen: 0.612 ppbv

RT: 2.560 min Scan# 764

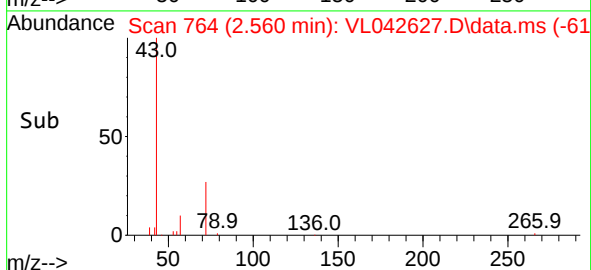
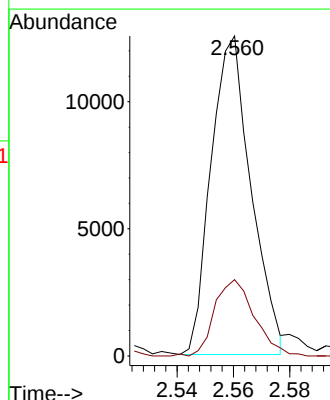
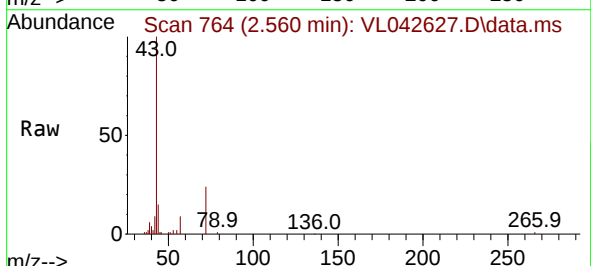
Delta R.T. -0.000 min

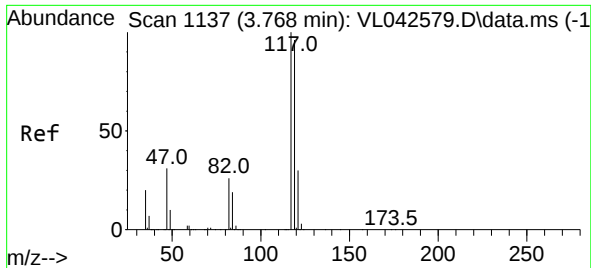
Lab File: VL042627.D

Acq: 16 Jun 2025 14:01

Tgt Ion: 43 Resp: 12371

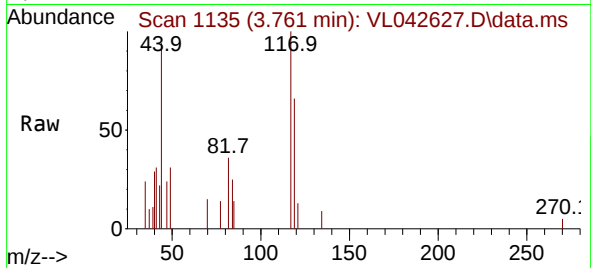
Ion	Ratio	Lower	Upper
43	100		
72	23.8	17.7	26.5





#35
Carbon Tetrachloride
Concen: 0.079 ppbv m
RT: 3.761 min Scan# 1135
Delta R.T. -0.006 min
Lab File: VL042627.D
Acq: 16 Jun 2025 14:01

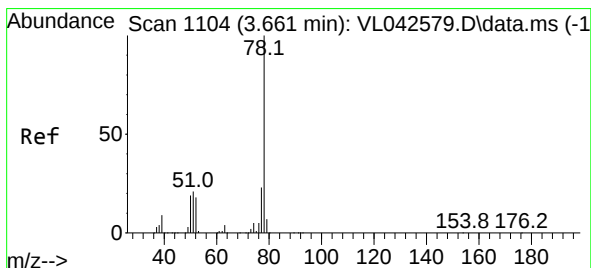
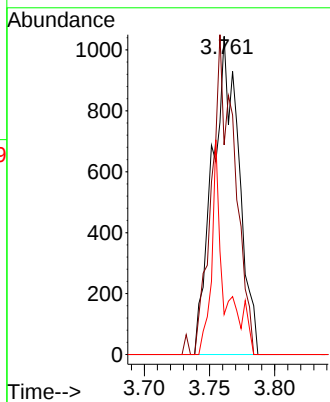
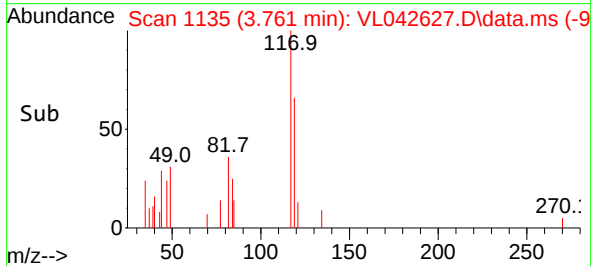
Instrument :
MSVOA_L
ClientSampleId :
AA-3DUP



Tgt Ion:117 Resp: 1470
Ion Ratio Lower Upper
117 100
119 65.8 76.8 115.2
121 12.6 24.3 36.5

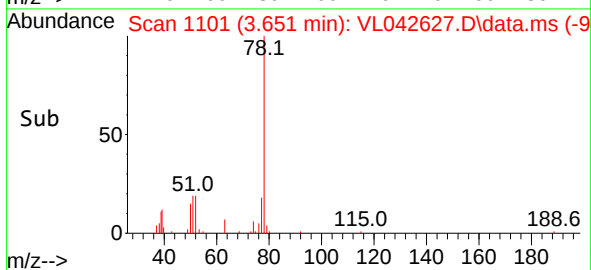
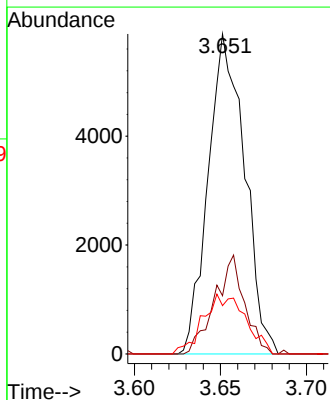
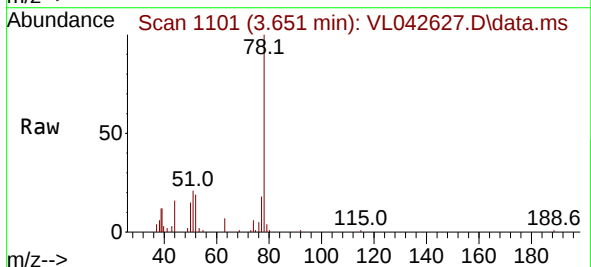
Manual Integrations
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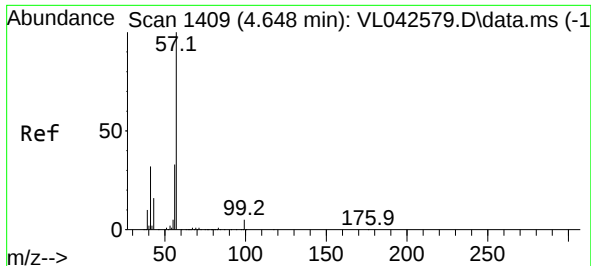
Reviewed By :Semsettin Yesilyurt 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#36
Benzene
Concen: 0.309 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.010 min
Lab File: VL042627.D
Acq: 16 Jun 2025 14:01

Tgt Ion: 78 Resp: 8632
Ion Ratio Lower Upper
78 100
77 18.2 18.2 27.2
50 15.1 15.2 22.8





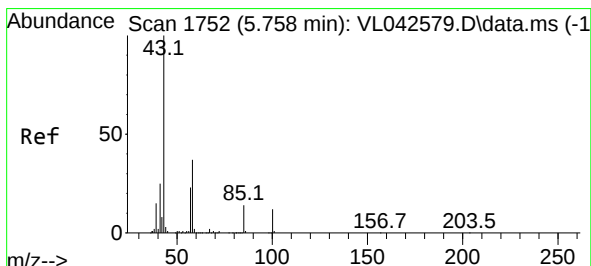
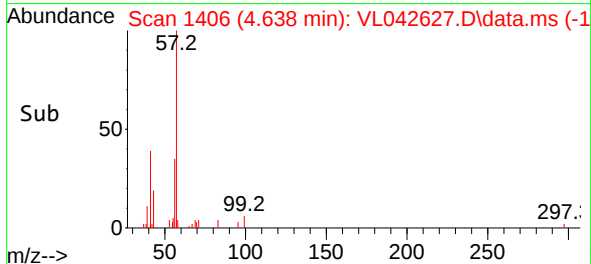
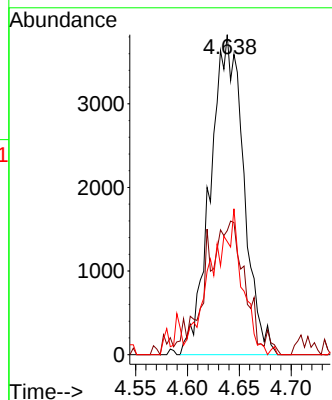
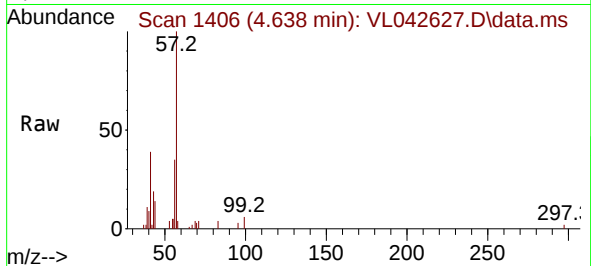
#44
2,2,4-Trimethylpentane
Concen: 0.178 ppbv m
RT: 4.638 min Scan# 1409
Delta R.T. -0.010 min
Lab File: VL042627.D
Acq: 16 Jun 2025 14:01

Instrument :
MSVOA_L
ClientSampleId :
AA-3DUP

Tgt Ion: 57 Resp: 8510
Ion Ratio Lower Upper
57 100
41 0.0 26.1 39.1
56 0.0 25.9 38.9

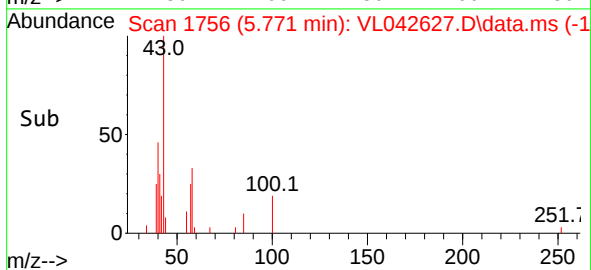
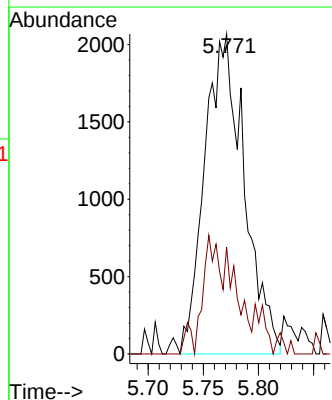
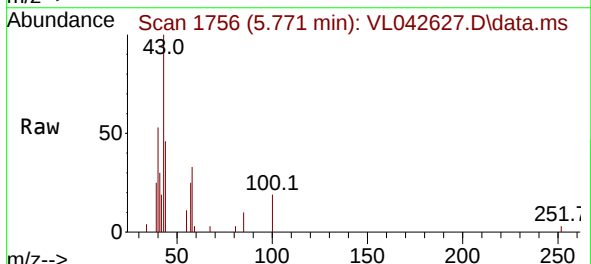
Manual Integrations
APPROVED

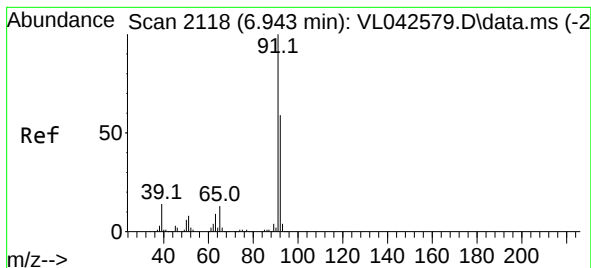
Reviewed By :Semsettin Yesilyurt 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#50
4-Methyl-2-Pentanone
Concen: 0.183 ppbv m
RT: 5.771 min Scan# 1756
Delta R.T. 0.013 min
Lab File: VL042627.D
Acq: 16 Jun 2025 14:01

Tgt Ion: 43 Resp: 5141
Ion Ratio Lower Upper
43 100
58 34.4 28.3 42.5





#53

Toluene

Concen: 0.478 ppbv m

RT: 6.927 min Scan# 2118

Delta R.T. -0.016 min

Lab File: VL042627.D

Acq: 16 Jun 2025 14:01

Instrument :

MSVOA_L

ClientSampleId :

AA-3DUP

Tgt Ion: 91 Resp: 15439

Ion Ratio Lower Upper

91 100

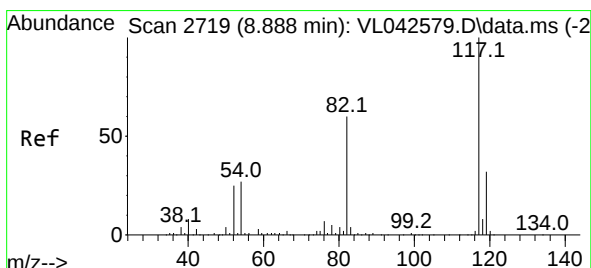
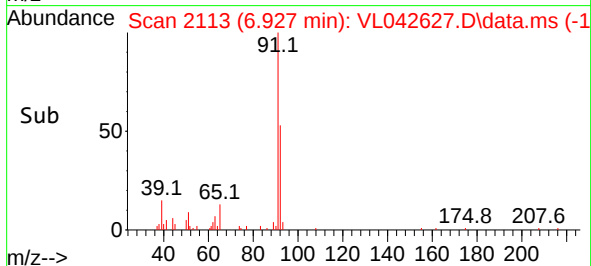
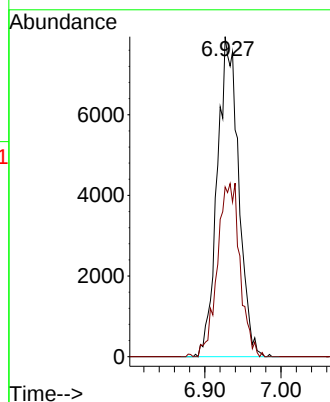
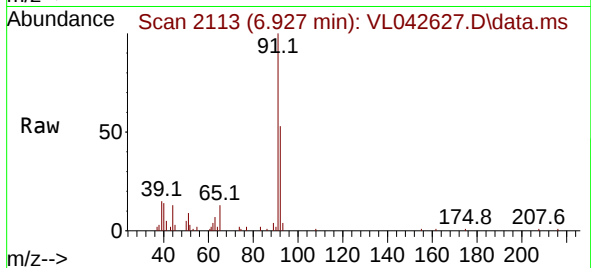
92 0.0 48.2 72.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/17/2025

Supervised By :Mahesh Dadoda 06/17/2025



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.882 min Scan# 2717

Delta R.T. -0.006 min

Lab File: VL042627.D

Acq: 16 Jun 2025 14:01

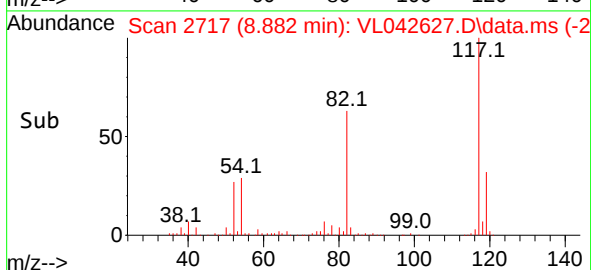
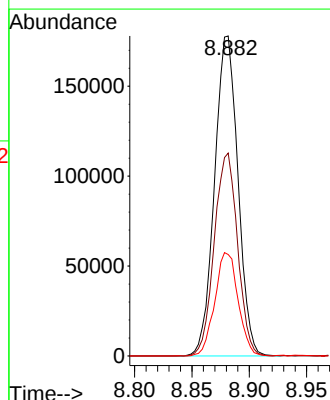
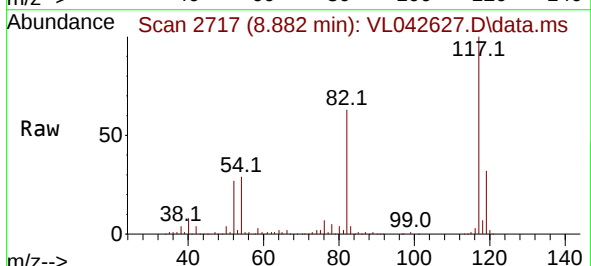
Tgt Ion:117 Resp: 252613

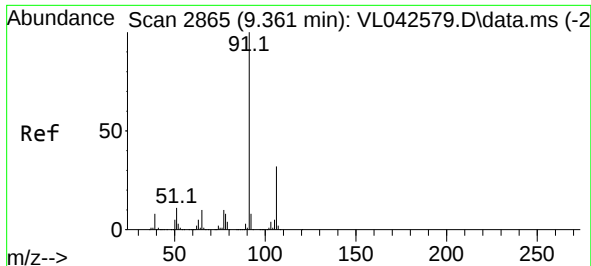
Ion Ratio Lower Upper

117 100

82 63.2 51.2 76.8

119 32.3 26.3 39.5





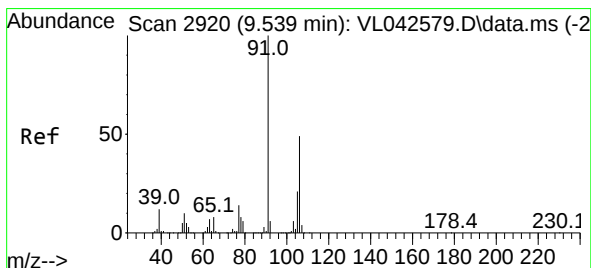
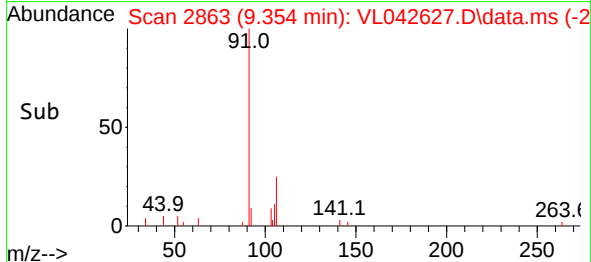
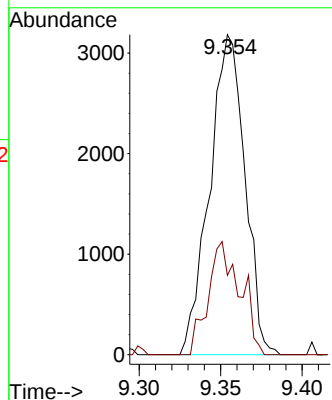
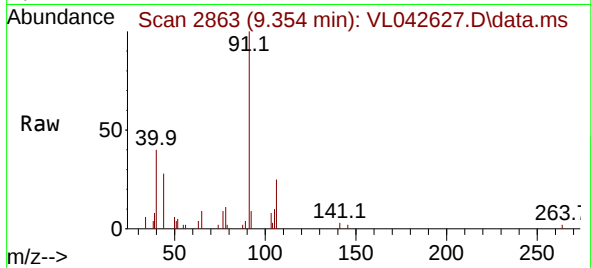
#58
Ethyl Benzene
Concen: 0.112 ppbv
RT: 9.354 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL042627.D
Acq: 16 Jun 2025 14:01

Instrument :
MSVOA_L
ClientSampleId :
AA-3DUP

Tgt Ion: 91 Resp: 4800
Ion Ratio Lower Upper
91 100
106 24.8 25.9 38.9

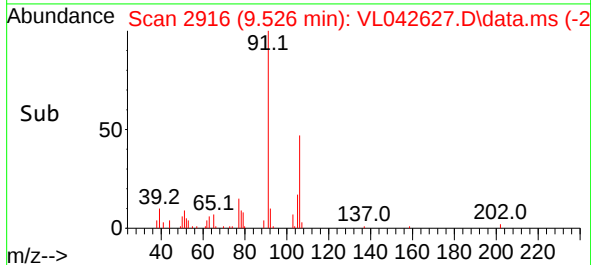
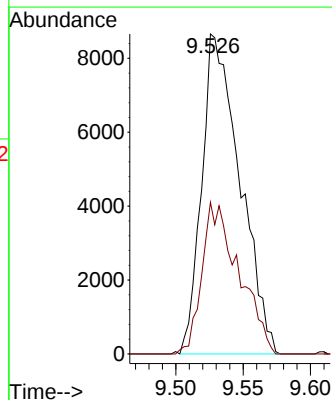
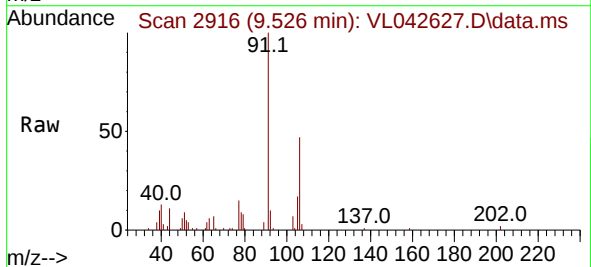
Manual Integrations
APPROVED

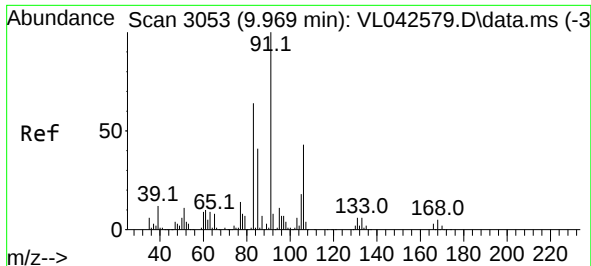
Reviewed By :Semsettin Yesilyurt 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#59
m/p-Xylene
Concen: 0.507 ppbv
RT: 9.526 min Scan# 2916
Delta R.T. -0.013 min
Lab File: VL042627.D
Acq: 16 Jun 2025 14:01

Tgt Ion: 91 Resp: 17094
Ion Ratio Lower Upper
91 100
106 45.7 38.8 58.2





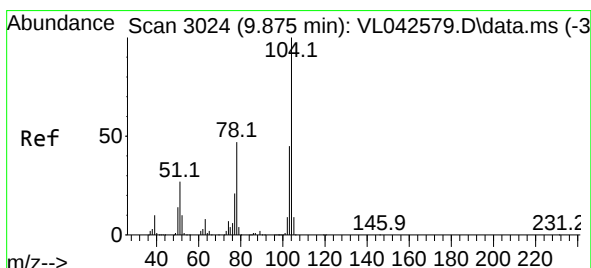
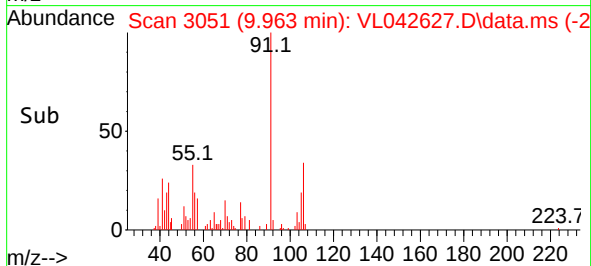
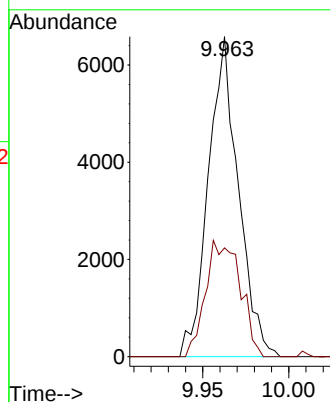
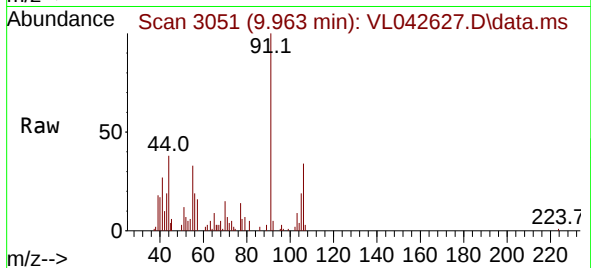
#60
o-Xylene
Concen: 0.237 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.006 min
Lab File: VL042627.D
Acq: 16 Jun 2025 14:01

Instrument :
MSVOA_L
ClientSampleId :
AA-3DUP

Tgt Ion: 91 Resp: 7978
Ion Ratio Lower Upper
91 100
106 41.9 22.9 68.5

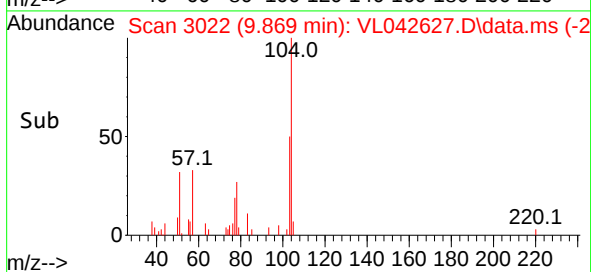
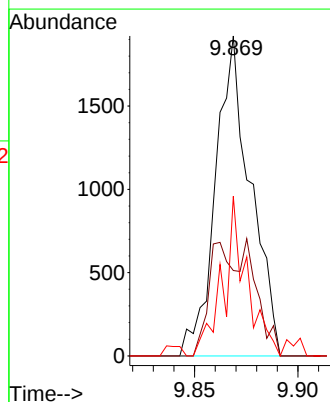
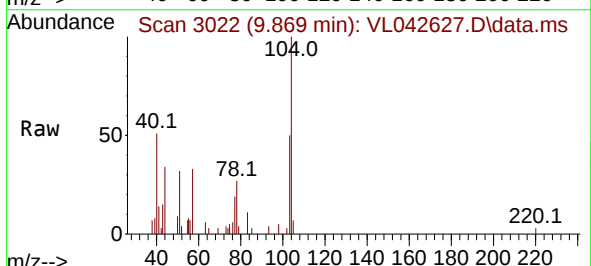
Manual Integrations
APPROVED

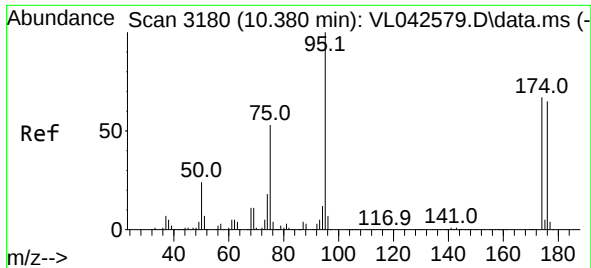
Reviewed By :Semsettin Yesilyurt 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#61
Styrene
Concen: 0.142 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. -0.006 min
Lab File: VL042627.D
Acq: 16 Jun 2025 14:01

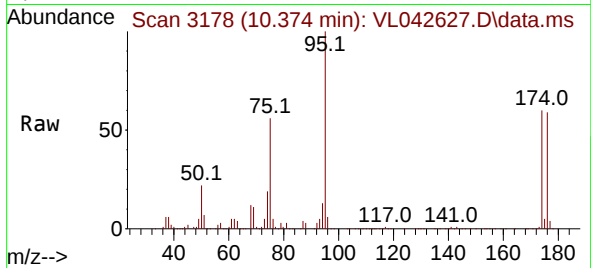
Tgt Ion:104 Resp: 2265
Ion Ratio Lower Upper
104 100
78 43.9 38.2 57.4
103 37.3 36.7 55.1





#68
1-Bromo-4-Fluorobenzene
Concen: 10.273 ppbv
RT: 10.374 min Scan# 3180
Delta R.T. -0.007 min
Lab File: VL042627.D
Acq: 16 Jun 2025 14:01

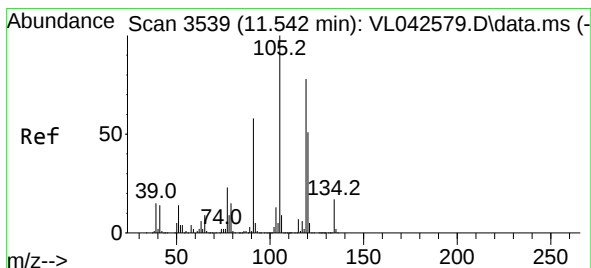
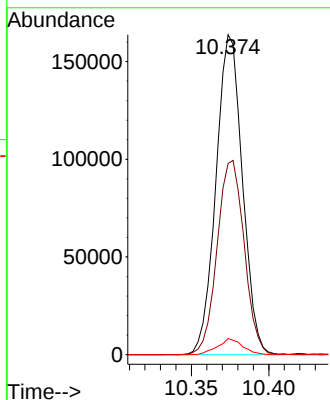
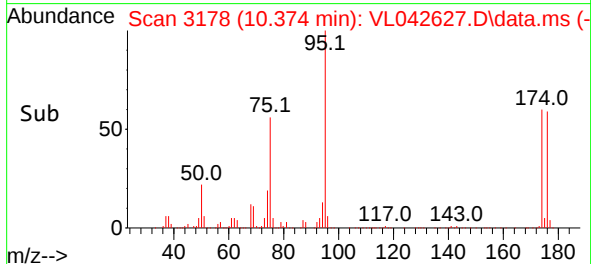
Instrument :
MSVOA_L
ClientSampleId :
AA-3DUP



Tgt Ion: 95 Resp: 19454
Ion Ratio Lower Upper
95 100
174 62.1 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: 0.173 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.010 min
Lab File: VL042627.D
Acq: 16 Jun 2025 14:01

Tgt Ion:105 Resp: 6660
Ion Ratio Lower Upper
105 100
120 48.7 40.8 61.2
91 10.4 46.8 70.2#
77 22.6 18.2 27.2

