

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022725\
 Data File : VL042069.D
 Acq On : 27 Feb 2025 12:23
 Operator : SY/MD
 Sample : Q1450-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/28/2025
 Supervised By :Mahesh Dadoda 02/28/2025

Quant Time: Feb 28 00:24:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.803	49	168601	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.985	114	395632	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	332649	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.396	95	262243	10.247	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.500%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.505	85	7455	0.425	ppbv	95
3) Chlorodifluoromethane	1.479	51	6376m	0.260	ppbv	
4) Chloromethane	1.538	50	2363	0.364	ppbv	99
9) Propene	1.492	41	6871m	0.688	ppbv	
10) Heptane	5.011	43	14440	0.465	ppbv	100
11) Trichlorofluoromethane	1.887	101	3703	0.211	ppbv	85
13) Ethanol	1.732	45	6638	10.475	ppbv #	33
15) Acetone	1.845	43	107906	7.247	ppbv	98
19) Isopropyl Alcohol	1.897	45	6509	0.761	ppbv #	1
20) Methylene Chloride	2.075	84	2349	0.417	ppbv #	89
26) Hexane	2.839	57	5577	0.231	ppbv #	47
34) 2-Butanone	2.580	43	10374	0.337	ppbv	96
35) Carbon Tetrachloride	3.784	117	2105m	0.077	ppbv	
36) Benzene	3.680	78	8619	0.208	ppbv #	86
50) 4-Methyl-2-Pentanone	5.817	43	5238m	0.131	ppbv	
52) Tetrachloroethene	8.257	164	2326m	0.164	ppbv	
53) Toluene	6.962	91	140918	3.044	ppbv	100
58) Ethyl Benzene	9.374	91	10600	0.173	ppbv	92
59) m/p-Xylene	9.552	91	32364m	0.664	ppbv	
60) o-Xylene	9.985	91	14039	0.286	ppbv	98
61) Styrene	9.895	104	3892	0.169	ppbv	86
74) 1,2,4-Trimethylbenzene	11.555	105	10077	0.172	ppbv #	63
79) Naphthalene	13.533	128	7078	0.177	ppbv	96

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

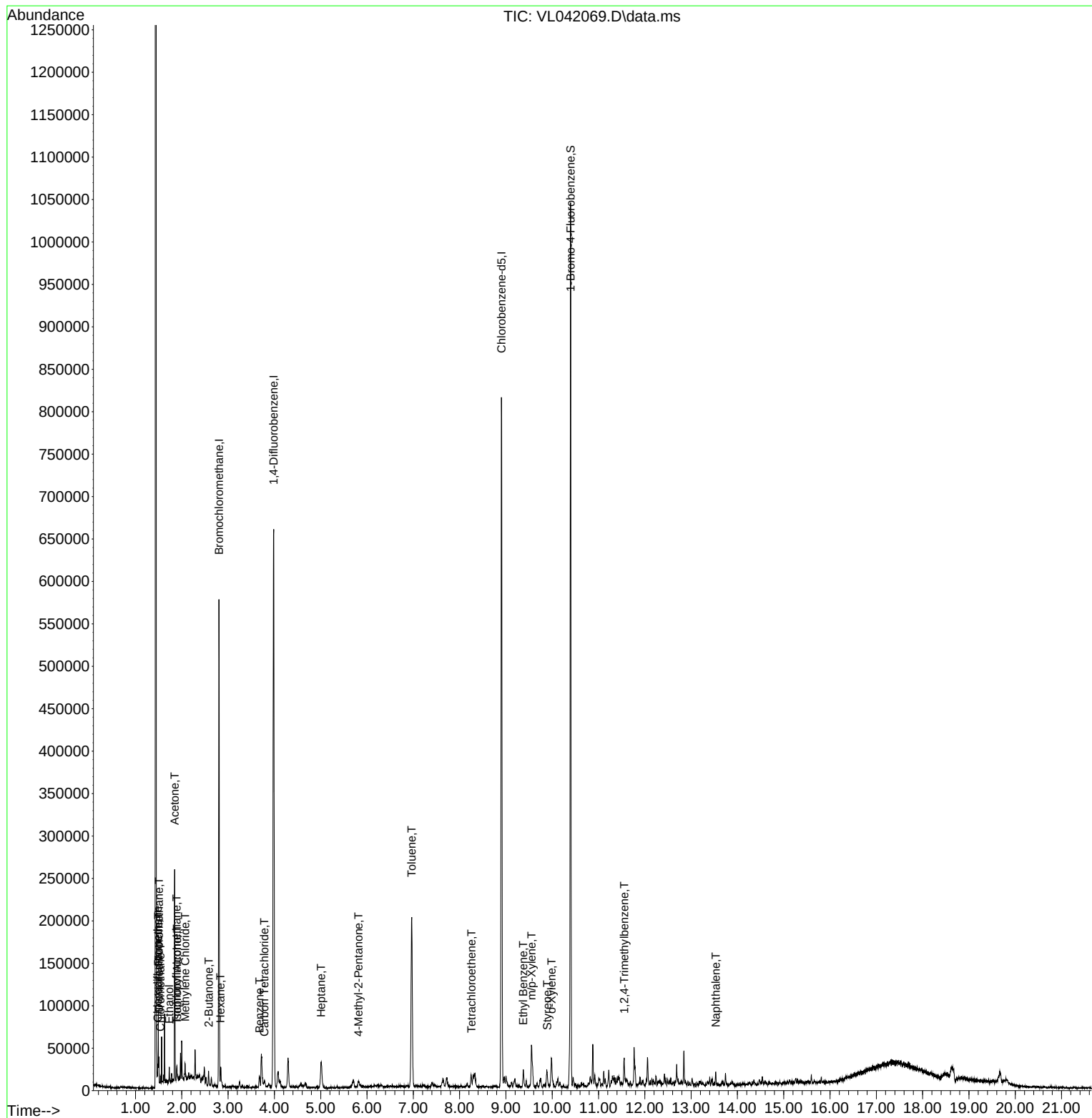
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022725\
Data File : VL042069.D
Acq On : 27 Feb 2025 12:23
Operator : SY/MD
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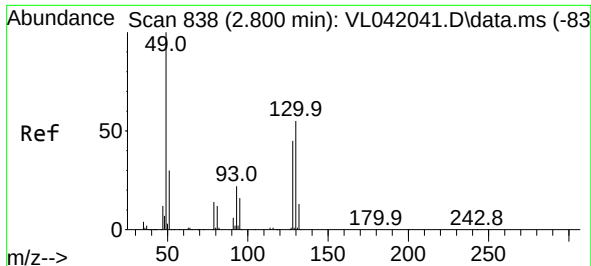
Instrument :
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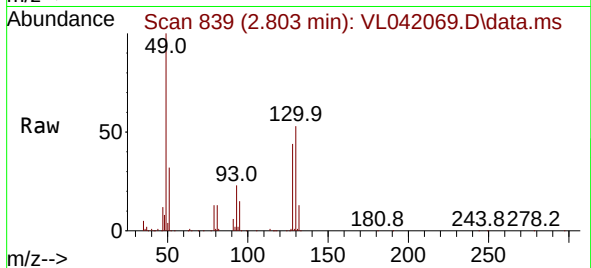
Quant Time: Feb 28 00:24:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 838
Delta R.T. 0.003 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

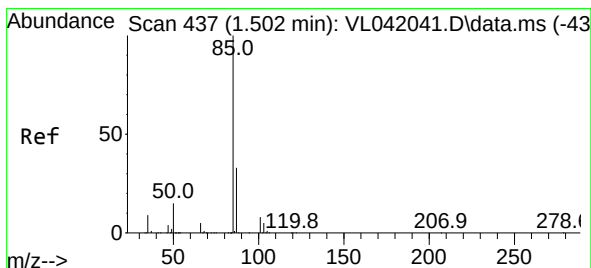
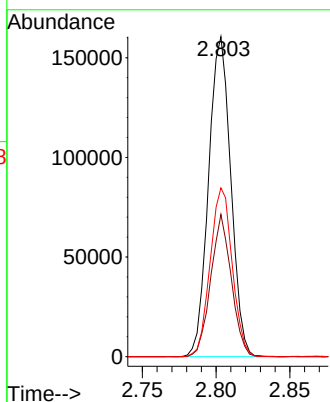
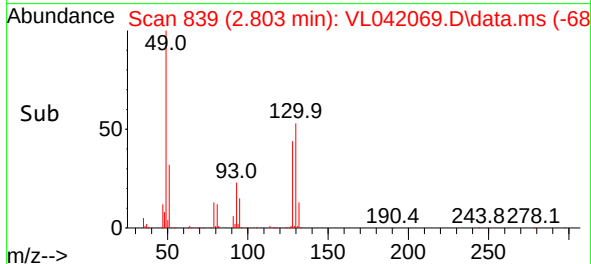
Instrument :
MSVOA_L
ClientSampleId :
IA1



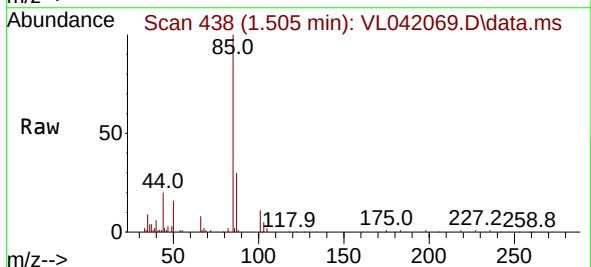
Tgt Ion: 49 Resp: 16860
Ion Ratio Lower Upper
49 100
128 41.1 21.6 64.8
130 52.4 27.8 83.4

Manual Integrations
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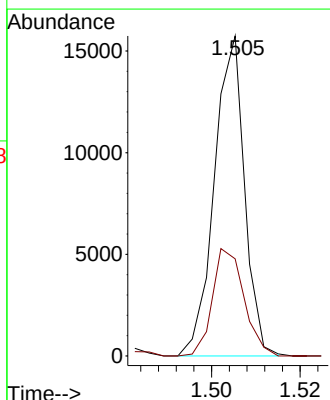
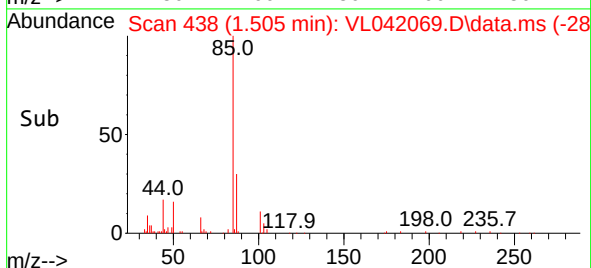
Reviewed By :Semsettin Yesilyurt 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

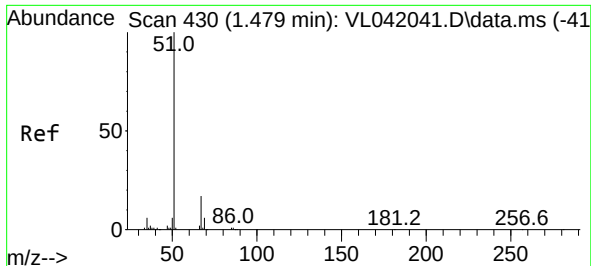


#2
Dichlorodifluoromethane
Concen: 0.425 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.003 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23



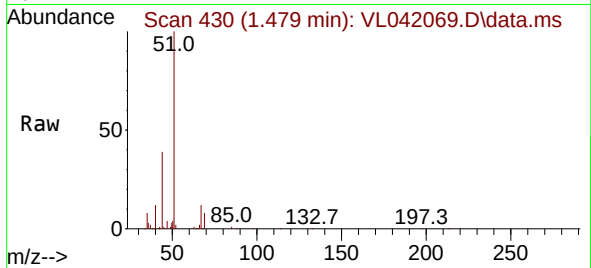
Tgt Ion: 85 Resp: 7455
Ion Ratio Lower Upper
85 100
87 30.4 26.4 39.6





#3
Chlorodifluoromethane
Concen: 0.260 ppbv m
RT: 1.479 min Scan# 430
Delta R.T. -0.000 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

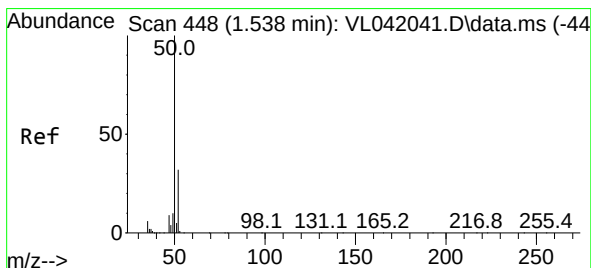
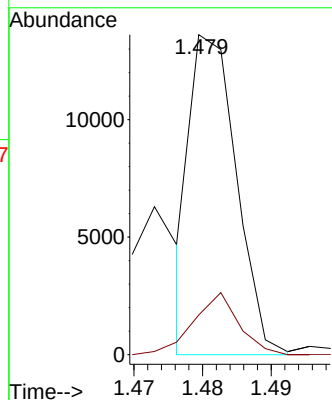
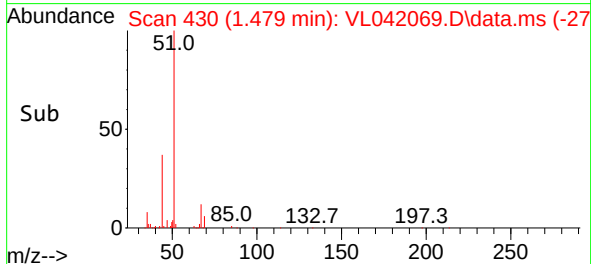
Instrument :
MSVOA_L
ClientSampleId :
IA1



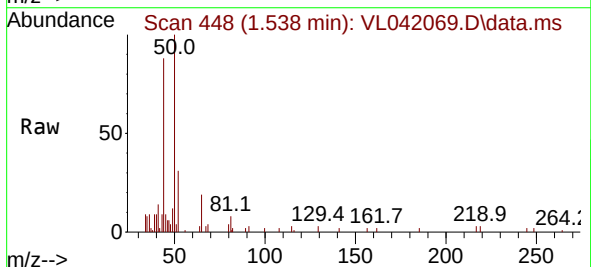
Tgt Ion: 51 Resp: 6370
Ion Ratio Lower Upper
51 100
67 20.9 13.7 20.5

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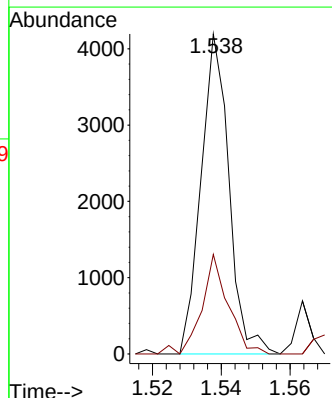
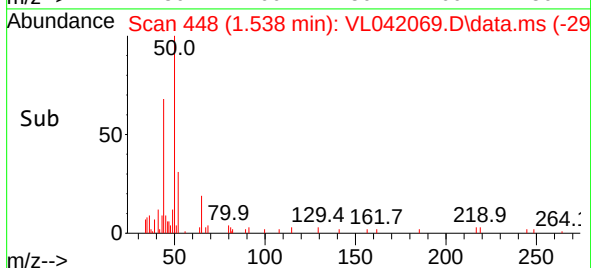
Reviewed By :Semsettin Yesilyurt 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

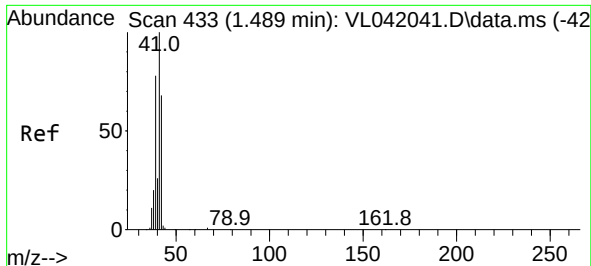


#4
Chloromethane
Concen: 0.364 ppbv
RT: 1.538 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23



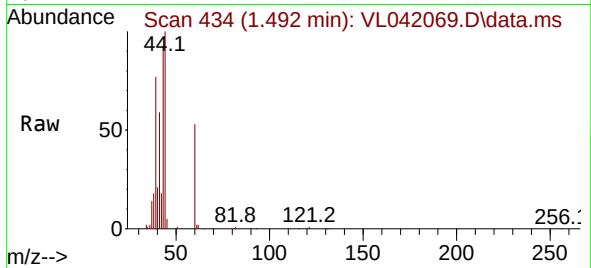
Tgt Ion: 50 Resp: 2363
Ion Ratio Lower Upper
50 100
52 31.1 25.4 38.0





#9
Propene
Concen: 0.688 ppbv m
RT: 1.492 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

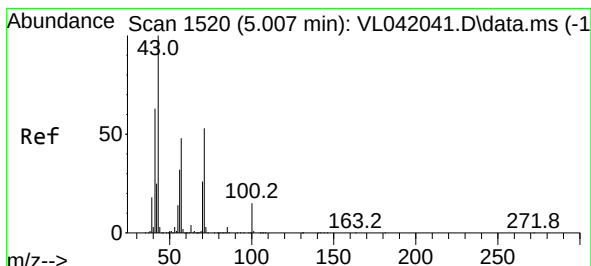
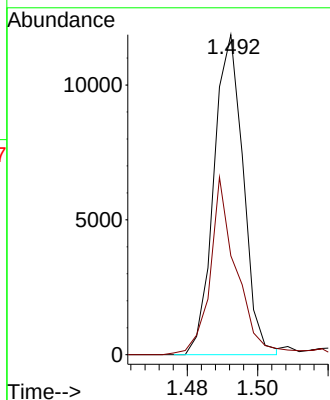
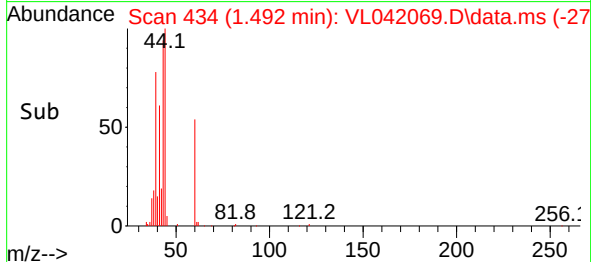
Instrument :
MSVOA_L
ClientSampleId :
IA1



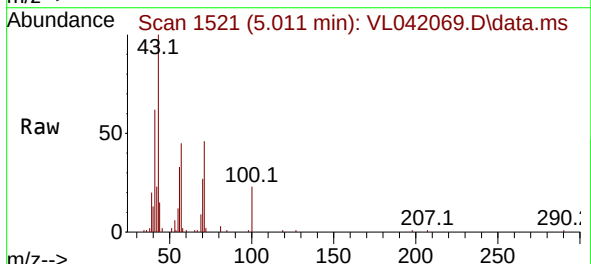
Tgt Ion: 41 Resp: 687
Ion Ratio Lower Upper
41 100
42 54.2 55.8 83.6

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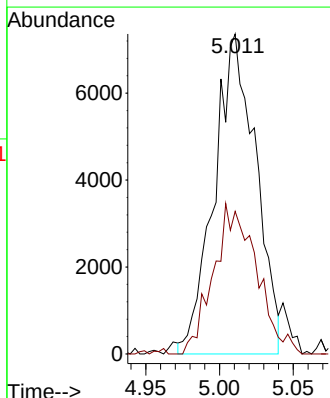
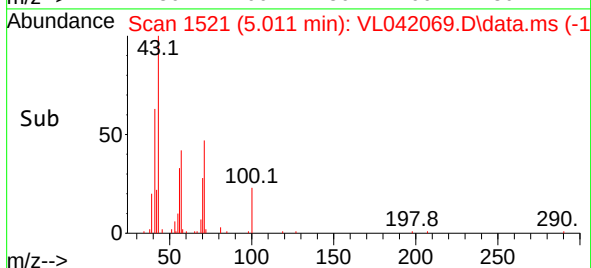
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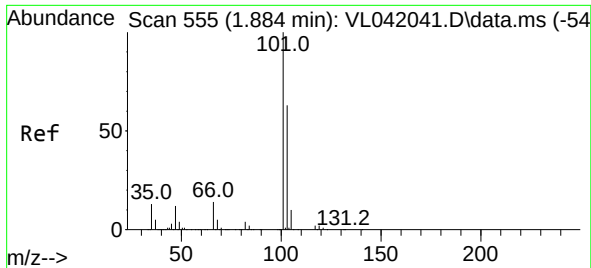


#10
Heptane
Concen: 0.465 ppbv
RT: 5.011 min Scan# 1521
Delta R.T. 0.003 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23



Tgt Ion: 43 Resp: 14440
Ion Ratio Lower Upper
43 100
57 49.0 39.4 59.0





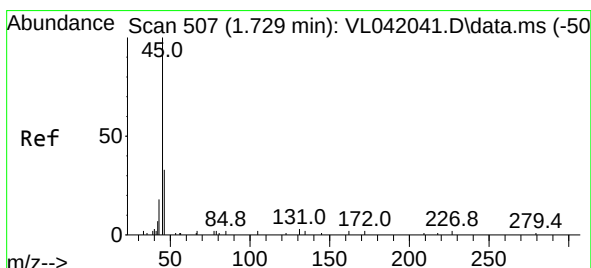
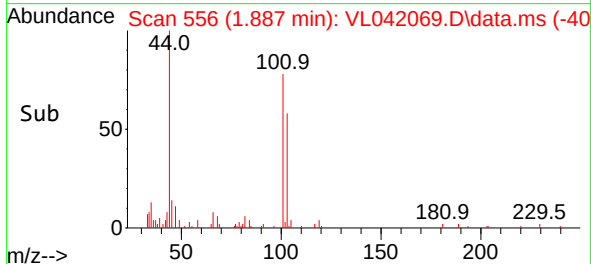
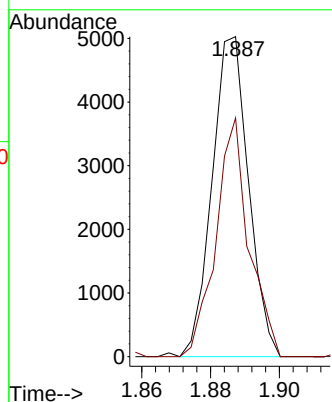
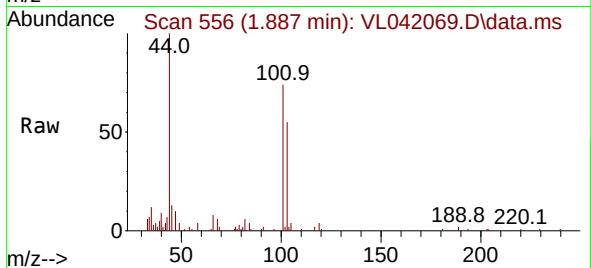
#11
Trichlorofluoromethane
Concen: 0.211 ppbv
RT: 1.887 min Scan# 508
Delta R.T. 0.003 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion:101 Resp: 370
Ion Ratio Lower Upper
101 100
103 74.6 50.6 75.8

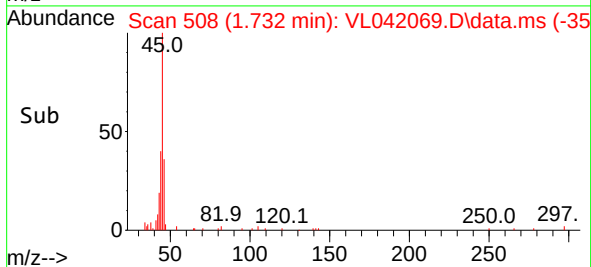
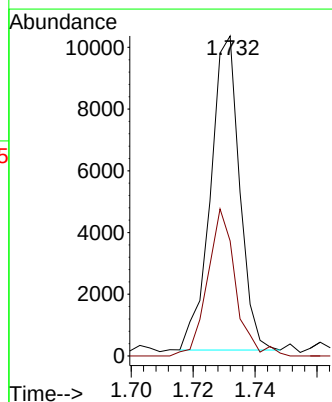
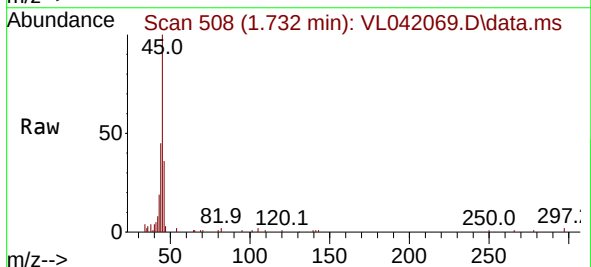
Manual Integrations
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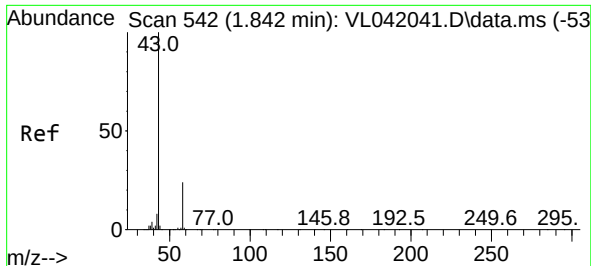
Reviewed By :Semsettin Yesilyurt 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#13
Ethanol
Concen: 10.475 ppbv
RT: 1.732 min Scan# 508
Delta R.T. 0.003 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

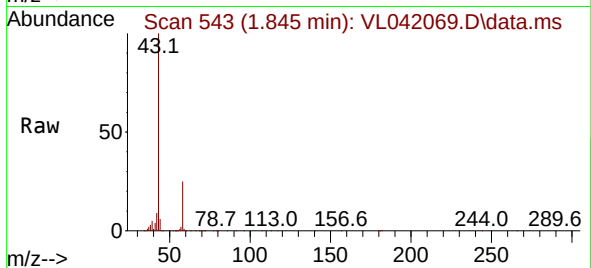
Tgt Ion: 45 Resp: 6638
Ion Ratio Lower Upper
45 100
46 0.0 17.1 68.3#





#15
Acetone
Concen: 7.247 ppbv
RT: 1.845 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

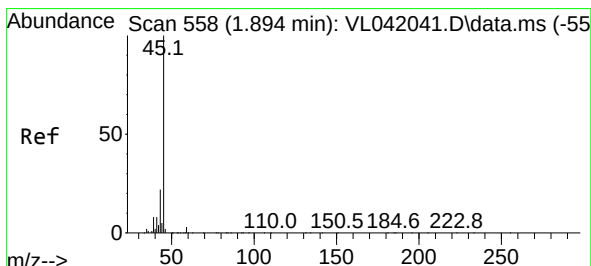
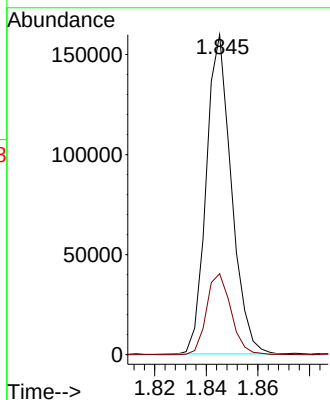
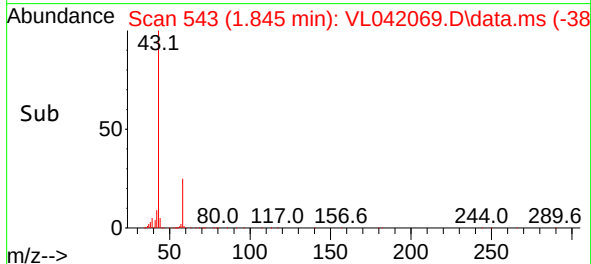
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 107900
Ion Ratio Lower Upper
43 100
58 24.8 20.7 31.1

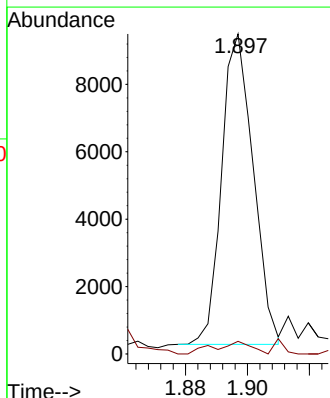
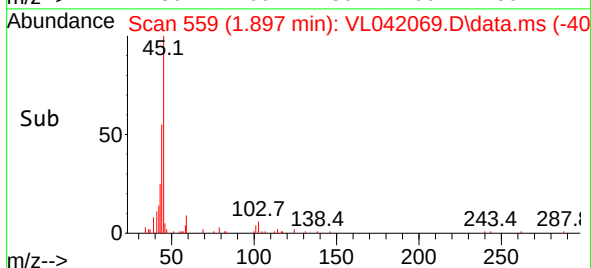
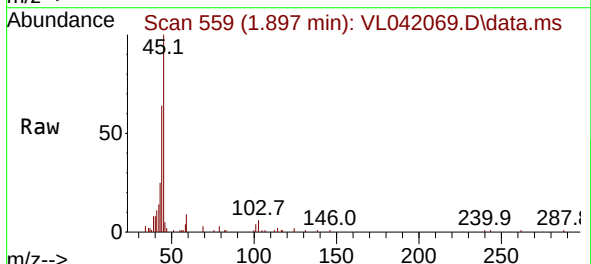
Manual Integrations
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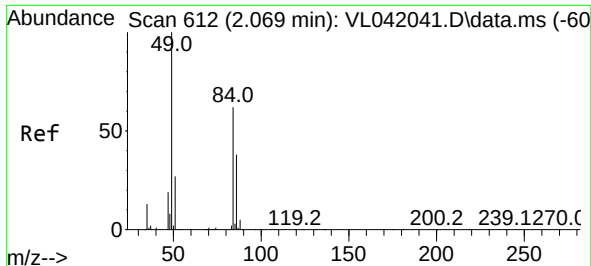
Reviewed By :Semsettin Yesilyurt 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#19
Isopropyl Alcohol
Concen: 0.761 ppbv
RT: 1.897 min Scan# 559
Delta R.T. 0.003 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

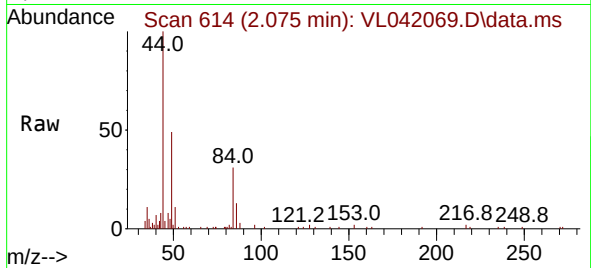
Tgt Ion: 45 Resp: 6509
Ion Ratio Lower Upper
45 100
58 411.2 35.3 52.9#





#20
Methylene Chloride
Concen: 0.417 ppbv
RT: 2.075 min Scan# 612
Delta R.T. 0.006 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

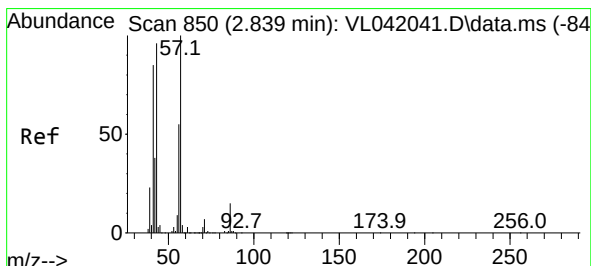
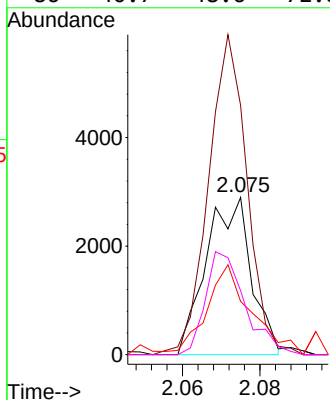
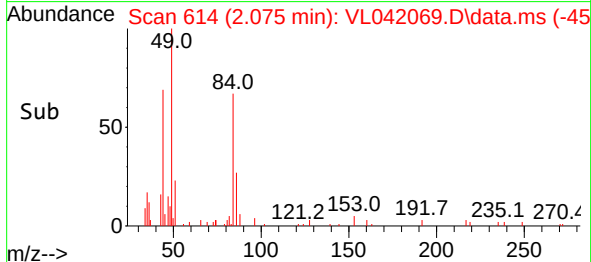
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 84 Resp: 2349
Ion Ratio Lower Upper
84 100
49 159.6 130.0 195.0
51 31.1 37.4 56.0
86 40.7 48.6 72.8#

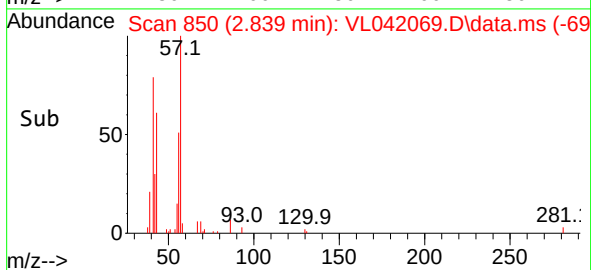
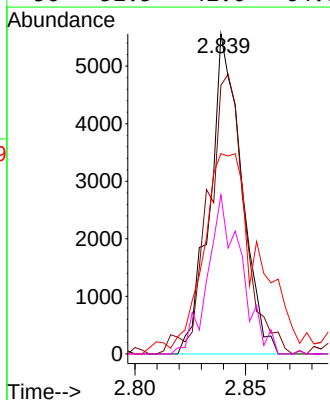
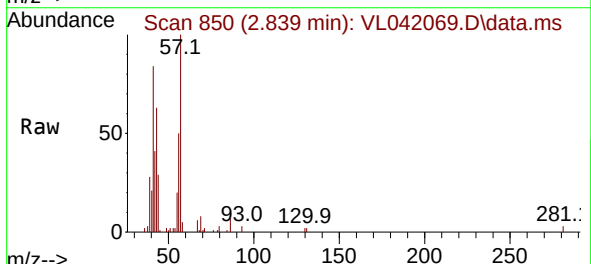
Manual Integrations
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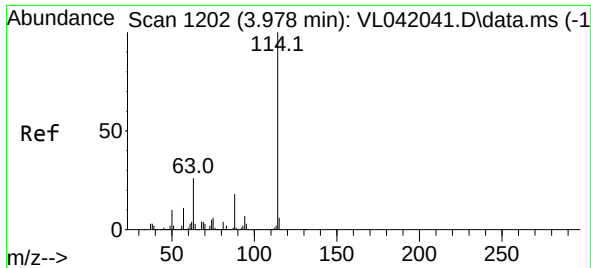
Reviewed By :Semsettin Yesilyurt 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#26
Hexane
Concen: 0.231 ppbv
RT: 2.839 min Scan# 850
Delta R.T. -0.000 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

Tgt Ion: 57 Resp: 5577
Ion Ratio Lower Upper
57 100
41 100.3 70.6 106.0
43 111.6 199.4 299.0#
56 52.5 42.6 64.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.985 min Scan# 114

Delta R.T. 0.006 min

Lab File: VL042069.D

Acq: 27 Feb 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion:114 Resp: 39563

Ion Ratio Lower Upper

114 100

63 26.7 20.1 30.1

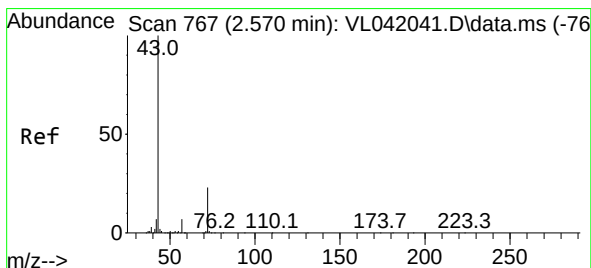
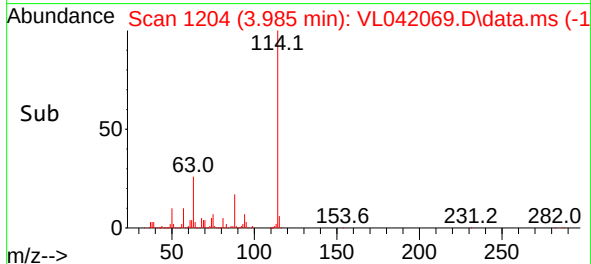
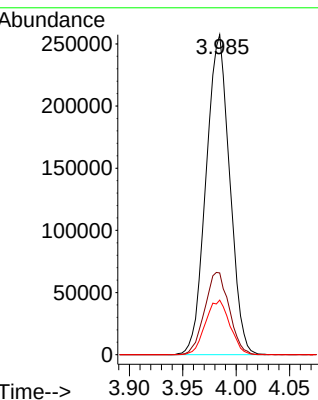
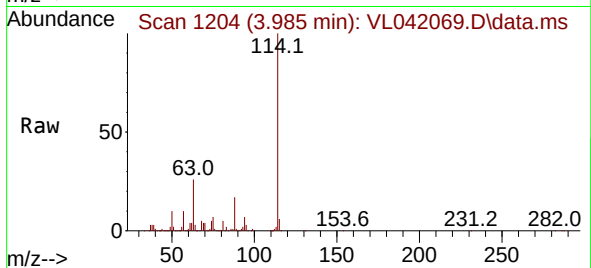
88 17.6 14.3 21.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#34

2-Butanone

Concen: 0.337 ppbv

RT: 2.580 min Scan# 770

Delta R.T. 0.010 min

Lab File: VL042069.D

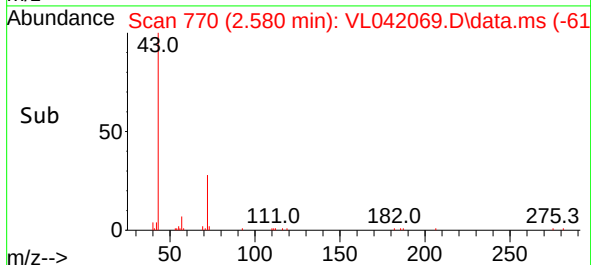
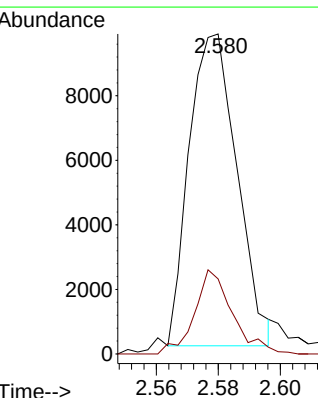
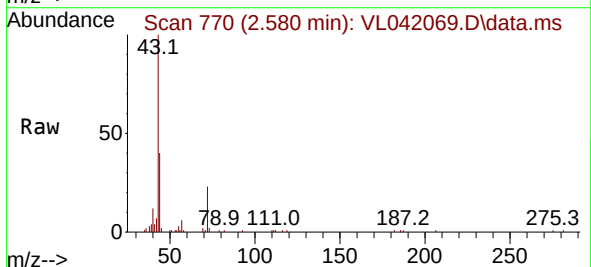
Acq: 27 Feb 2025 12:23

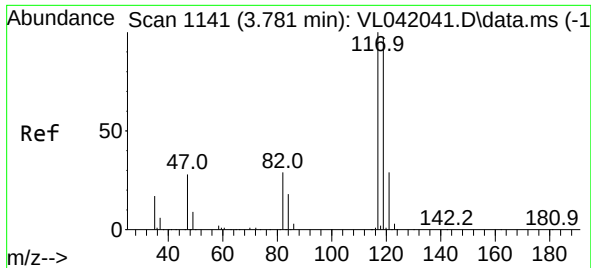
Tgt Ion: 43 Resp: 10374

Ion Ratio Lower Upper

43 100

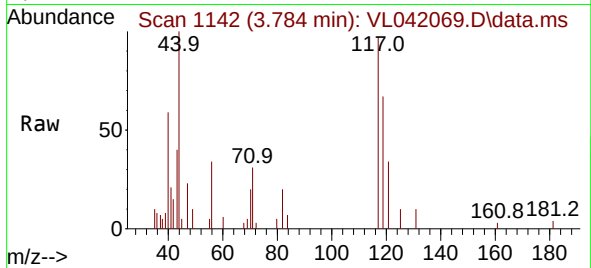
72 21.3 18.5 27.7





#35
Carbon Tetrachloride
Concen: 0.077 ppbv m
RT: 3.784 min Scan# 1141
Delta R.T. 0.003 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

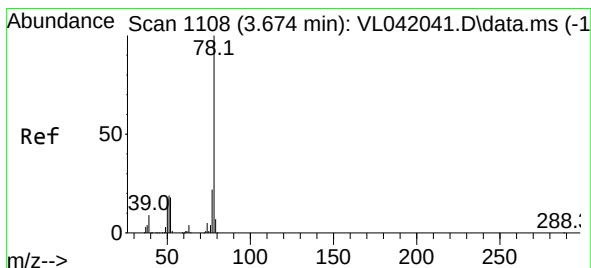
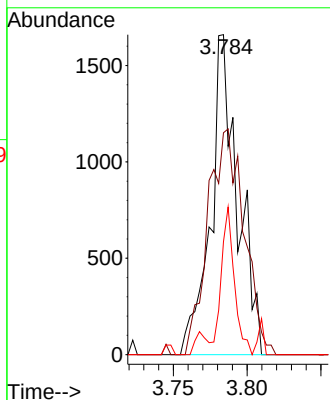
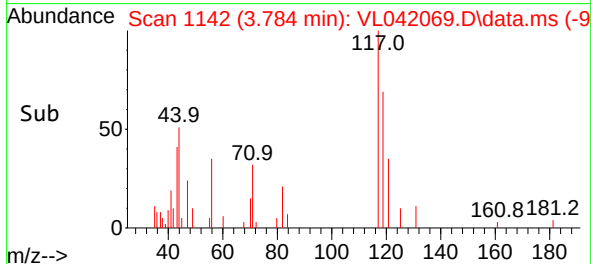
Instrument :
MSVOA_L
ClientSampleId :
IA1



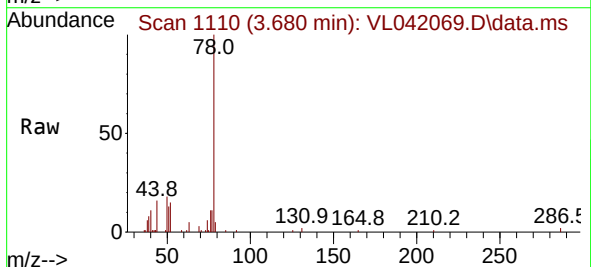
Tgt Ion:117 Resp: 210
Ion Ratio Lower Upper
117 100
119 69.3 77.8 116.8
121 35.3 23.4 35.0

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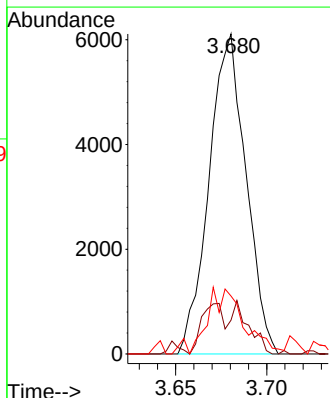
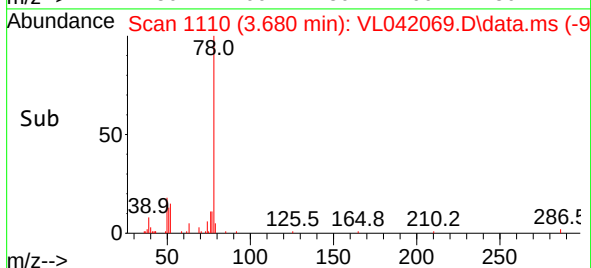
Reviewed By :Semsettin Yesilyurt 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

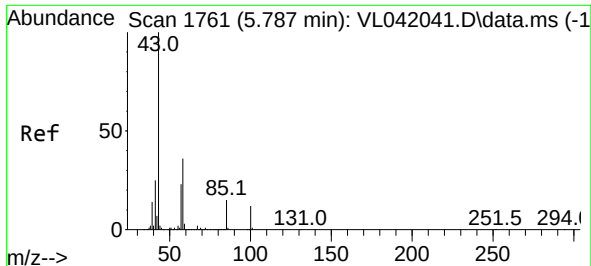


#36
Benzene
Concen: 0.208 ppbv
RT: 3.680 min Scan# 1110
Delta R.T. 0.006 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23



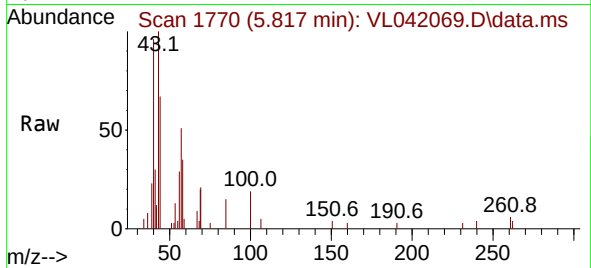
Tgt Ion: 78 Resp: 8619
Ion Ratio Lower Upper
78 100
77 10.6 17.7 26.5
50 16.6 13.9 20.9





#50
4-Methyl-2-Pentanone
Concen: 0.131 ppbv m
RT: 5.817 min Scan# 1770
Delta R.T. 0.029 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

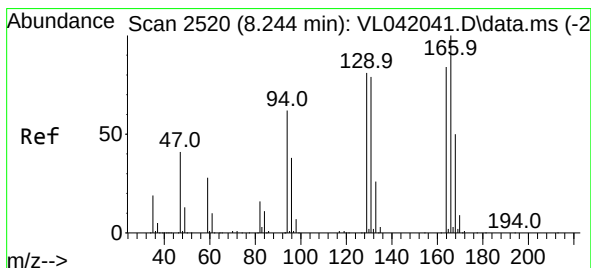
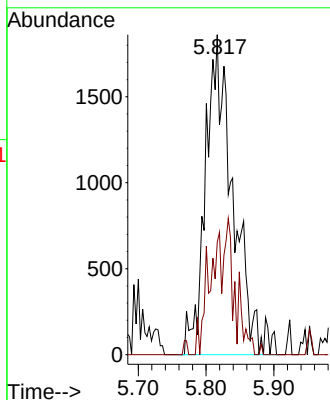
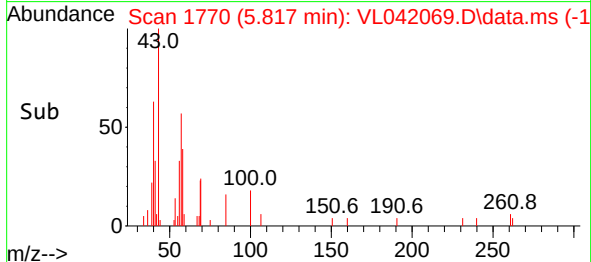
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 5238
Ion Ratio Lower Upper
43 100
58 0.0 29.3 43.9

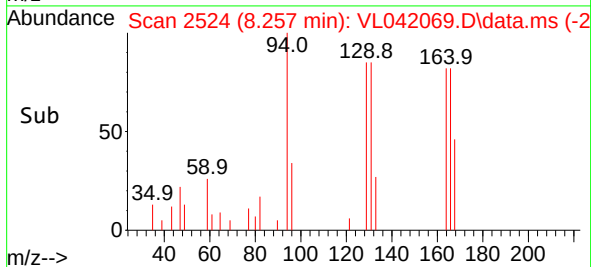
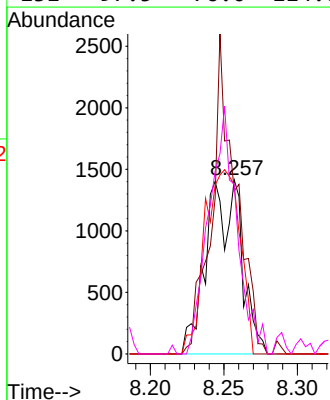
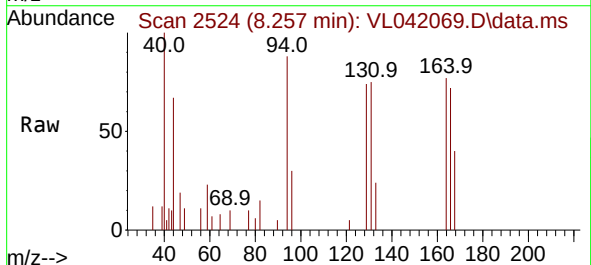
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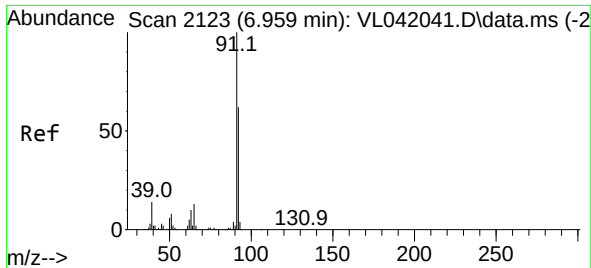
Reviewed By :Semsettin Yesilyurt 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#52
Tetrachloroethene
Concen: 0.164 ppbv m
RT: 8.257 min Scan# 2524
Delta R.T. 0.013 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

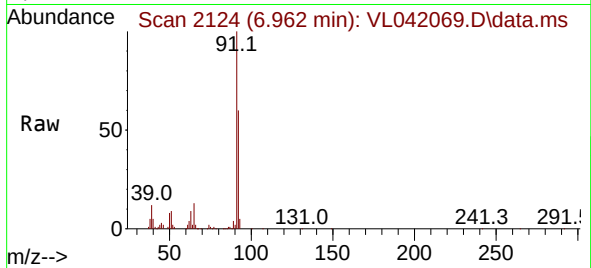
Tgt Ion:164 Resp: 2326
Ion Ratio Lower Upper
164 100
166 93.6 95.7 143.5#
129 96.9 77.1 115.7
131 97.5 76.0 114.0





#53
Toluene
Concen: 3.044 ppbv
RT: 6.962 min Scan# 2123
Delta R.T. 0.003 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

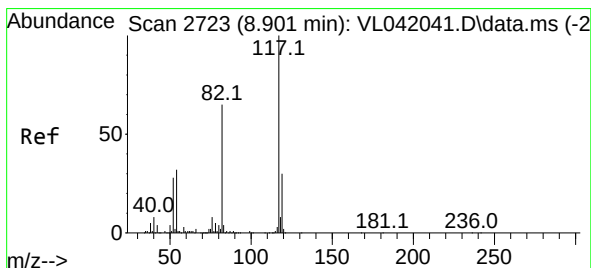
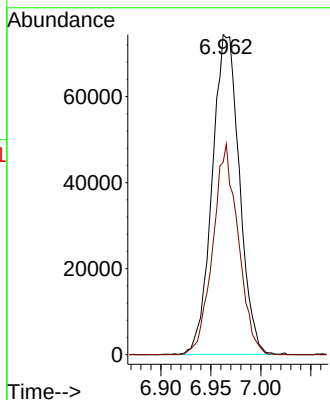
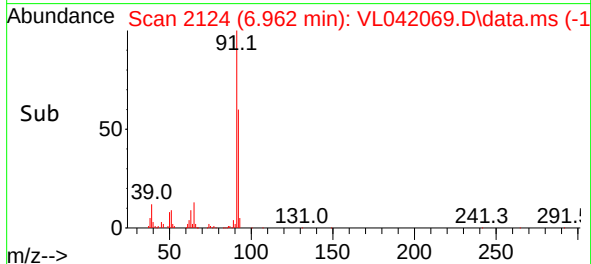
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 91 Resp: 140918
Ion Ratio Lower Upper
91 100
92 61.3 49.0 73.6

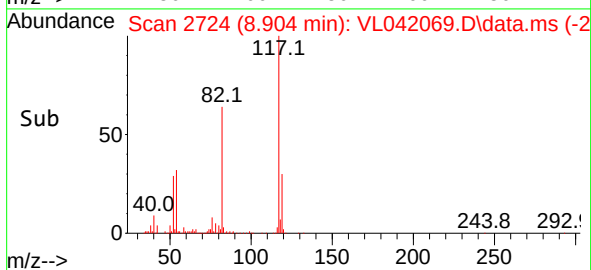
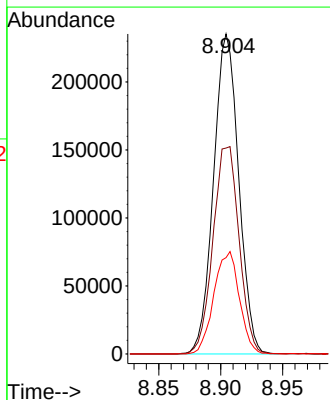
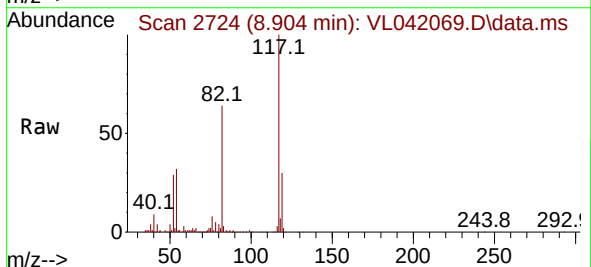
Manual Integrations
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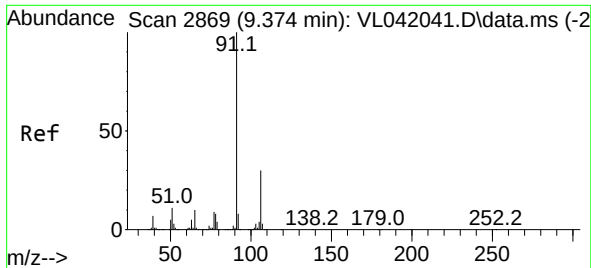
Reviewed By :Semsettin Yesilyurt 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 2724
Delta R.T. 0.003 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

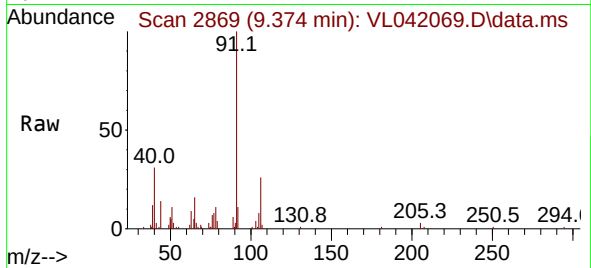
Tgt Ion:117 Resp: 332649
Ion Ratio Lower Upper
117 100
82 67.4 55.0 82.6
119 32.5 25.9 38.9





#58
Ethyl Benzene
Concen: 0.173 ppbv
RT: 9.374 min Scan# 2869
Delta R.T. -0.000 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

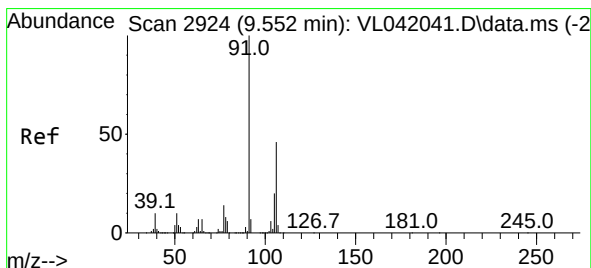
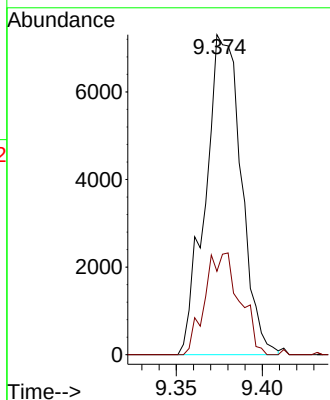
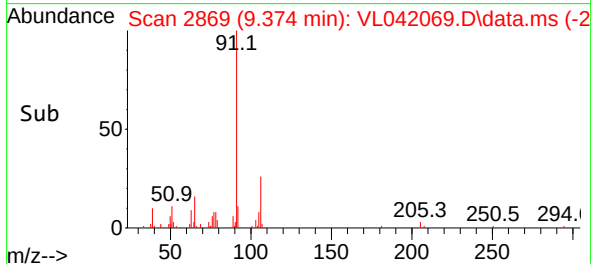
Instrument : MSVOA_L
ClientSampleId : IA1



Tgt Ion: 91 Resp: 10600
Ion Ratio Lower Upper
91 100
106 26.0 24.2 36.2

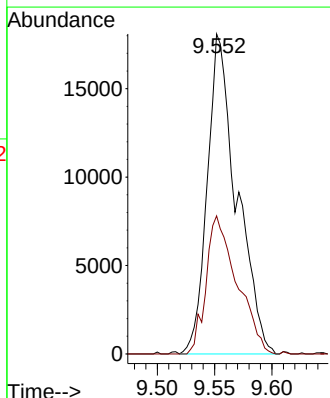
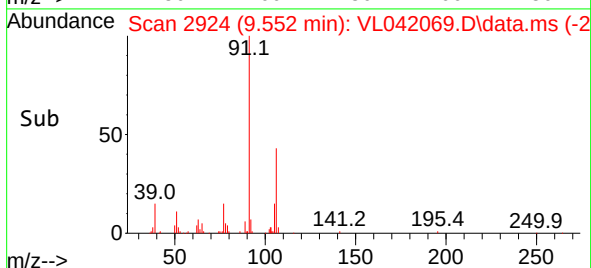
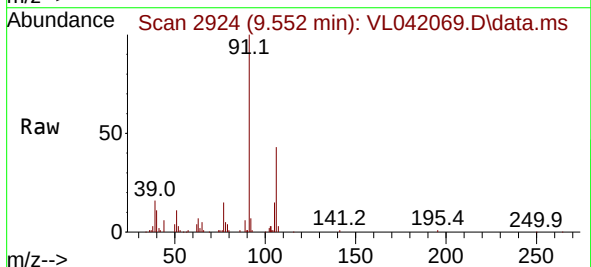
Manual Integrations
APPROVED

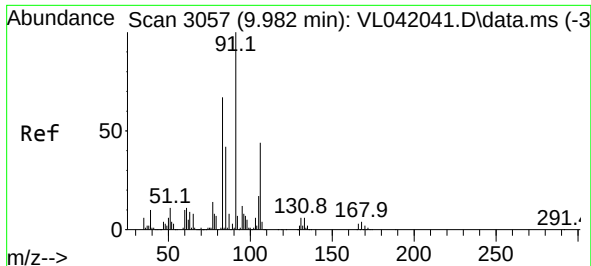
Reviewed By :Semsettin Yesilyurt 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#59
m/p-Xylene
Concen: 0.664 ppbv m
RT: 9.552 min Scan# 2924
Delta R.T. -0.000 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

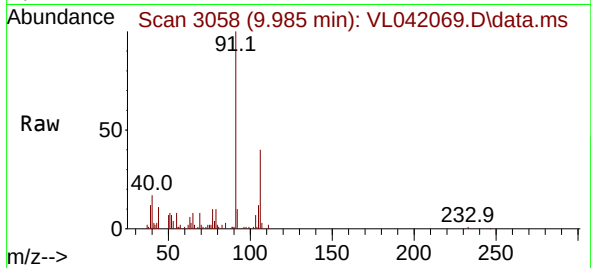
Tgt Ion: 91 Resp: 32364
Ion Ratio Lower Upper
91 100
106 45.3 0.0 0.0#





#60
o-Xylene
Concen: 0.286 ppbv
RT: 9.985 min Scan# 3057
Delta R.T. 0.003 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

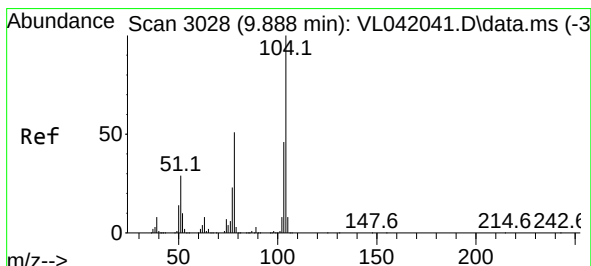
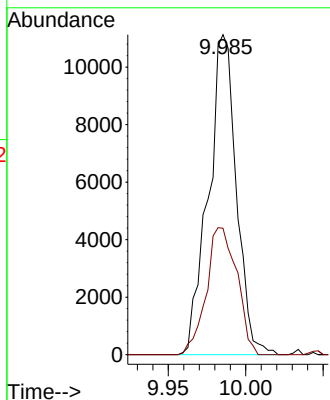
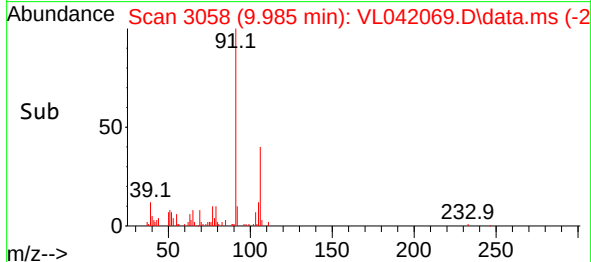
Instrument :
MSVOA_L
ClientSampleId :
IA1



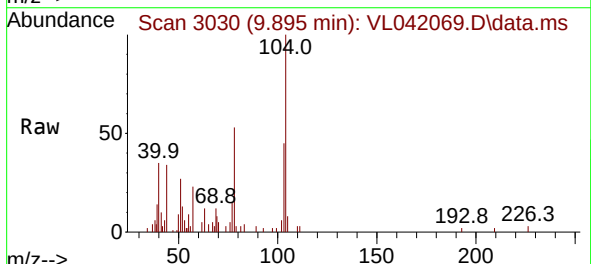
Tgt Ion: 91 Resp: 14039
Ion Ratio Lower Upper
91 100
106 43.2 22.3 66.8

Manual Integrations
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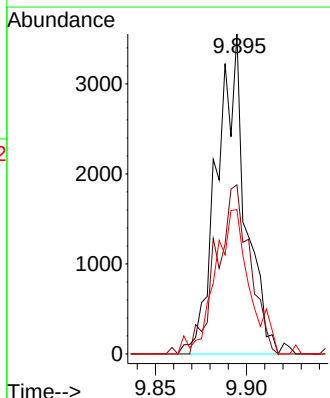
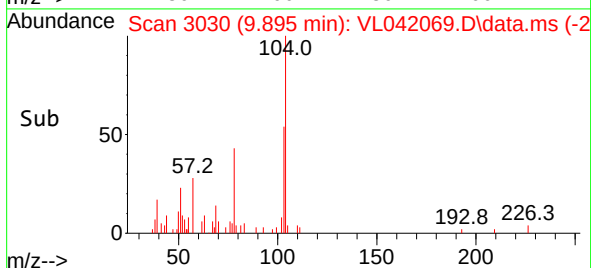
Reviewed By :Semsettin Yesilyurt 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

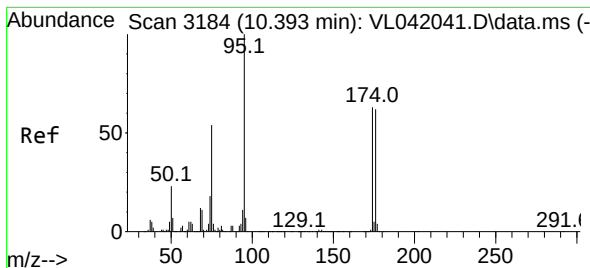


#61
Styrene
Concen: 0.169 ppbv
RT: 9.895 min Scan# 3030
Delta R.T. 0.006 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23



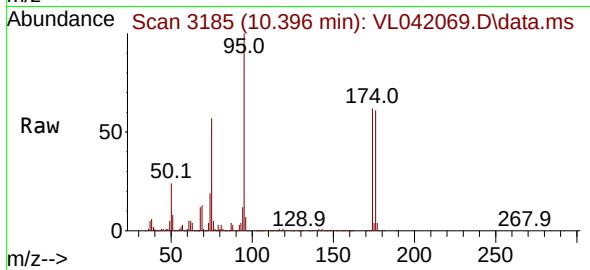
Tgt Ion:104 Resp: 3892
Ion Ratio Lower Upper
104 100
78 61.3 41.0 61.4
103 55.1 37.0 55.6





#68
1-Bromo-4-Fluorobenzene
Concen: 10.247 ppbv
RT: 10.396 min Scan# 3184
Delta R.T. 0.003 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

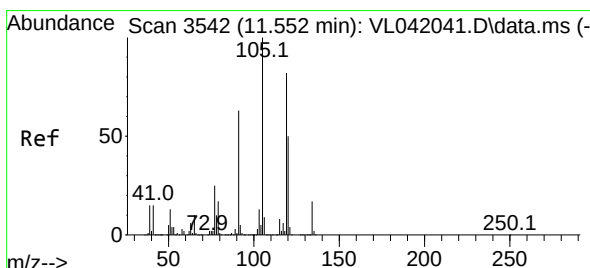
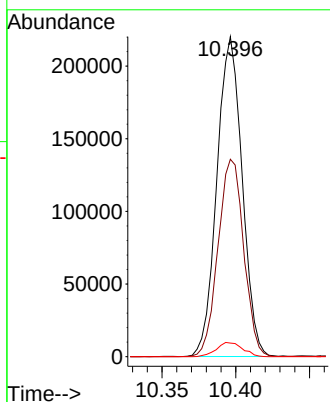
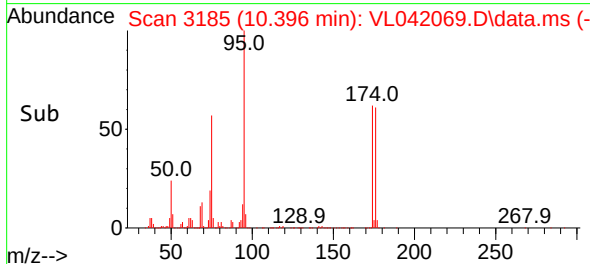
Instrument :
MSVOA_L
ClientSampleId :
IA1



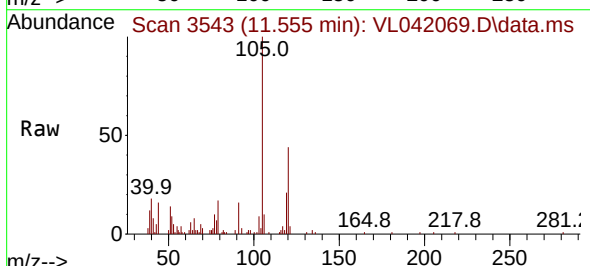
Tgt Ion: 95 Resp: 26224
Ion Ratio Lower Upper
95 100
174 62.8 51.8 77.6
175 4.6 3.9 5.9

Manual Integrations
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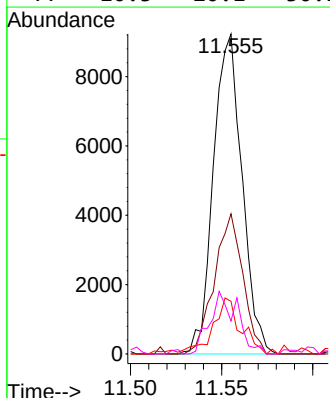
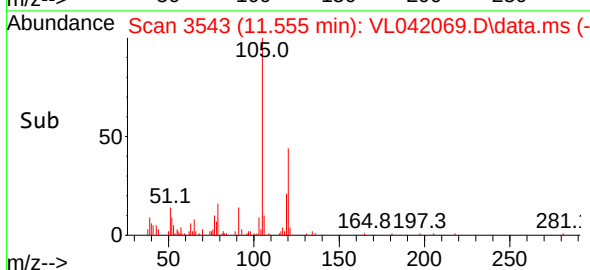
Reviewed By :Semsettin Yesilyurt 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

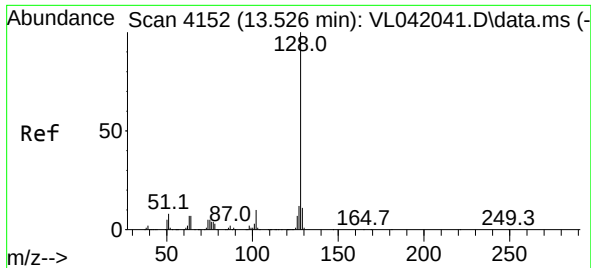


#74
1,2,4-Trimethylbenzene
Concen: 0.172 ppbv
RT: 11.555 min Scan# 3543
Delta R.T. 0.003 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23



Tgt Ion:105 Resp: 10077
Ion Ratio Lower Upper
105 100
120 43.8 40.2 60.2
91 16.4 51.4 77.2#
77 10.3 20.1 30.1#





#79

Naphthalene

Concen: 0.177 ppbv

RT: 13.533 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL042069.D

Acq: 27 Feb 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion:128 Resp: 7078

Ion Ratio Lower Upper

128 100

127 10.0 9.8 14.6

129 9.9 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025

