

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012324\
 Data File : VL041000.D
 Acq On : 23 Jan 2024 17:26
 Operator : SY/MD
 Sample : P1211-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/24/2024
 Supervised By :Mahesh Dadoda 01/24/2024

Quant Time: Jan 24 01:00:33 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL012324AIR.M

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

QLast Update : Wed Jan 24 00:50:15 2024

Response via : Initial Calibration

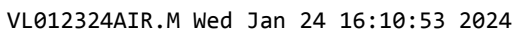
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

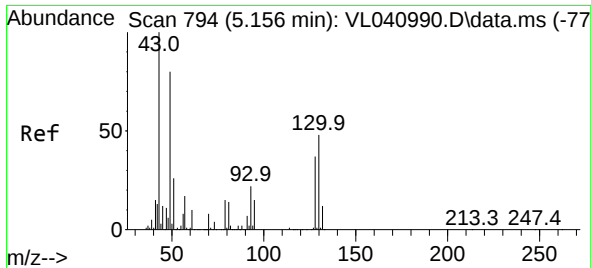
Internal Standards						
1) Bromochloromethane	5.160	49	1025563	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.616	114	2627949	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.423	117	2213183	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.732	95	1658588	9.922	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.200%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.703	85	100469	0.444	ppbv	99
4) Chloromethane	2.787	50	29761	0.460	ppbv	93
7) Chloroethane	3.169	64	33549	1.470	ppbv #	87
9) Propene	2.677	41	291757m	5.157	ppbv	
10) Heptane	7.539	43	54506	0.391	ppbv	98
11) Trichlorofluoromethane	3.536	101	39251m	0.215	ppbv	
12) 1,1,2-Trichlorotrifluo...	4.034	101	9438m	0.071	ppbv	
13) Ethanol	3.218	45	5198219	385.496	ppbv	94
15) Acetone	3.433	43	6525683	49.758	ppbv	98
19) Isopropyl Alcohol	3.558	45	14647900	192.947	ppbv #	95
20) Methylene Chloride	3.903	84	160023	3.171	ppbv	96
26) Hexane	5.179	57	163424	1.612	ppbv #	47
29) Chloroform	5.240	83	23996m	0.133	ppbv	
34) 2-Butanone	4.748	43	737208	5.888	ppbv	99
35) Carbon Tetrachloride	6.462	117	12832m	0.073	ppbv	
36) Benzene	6.337	78	54471m	0.251	ppbv	
41) Tetrahydrofuran	5.513	42	1568130	18.447	ppbv	97
44) 2,2,4-Trimethylpentane	7.282	57	47250	0.129	ppbv #	81
52) Tetrachloroethene	10.574	164	9165m	0.127	ppbv	
53) Toluene	9.182	91	443447	1.865	ppbv	98
58) Ethyl Benzene	12.047	91	35516m	0.120	ppbv	
59) m/p-Xylene	12.307	91	107689m	0.416	ppbv	
60) o-Xylene	13.018	91	38489m	0.155	ppbv	
74) 1,2,4-Trimethylbenzene	16.076	105	33735m	0.121	ppbv	

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

Manual Integrations

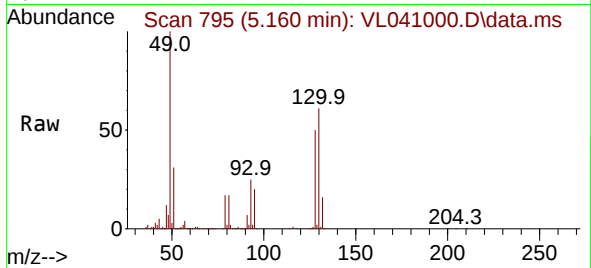
Quant Time: Jan 24 01:00:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL012324AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Jan 24 00:50:15 2024
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.160 min Scan# 794
Delta R.T. 0.004 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

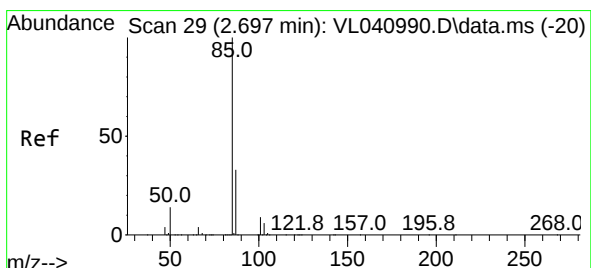
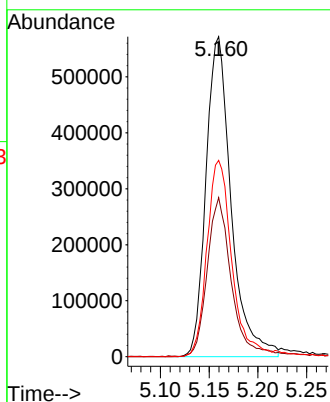
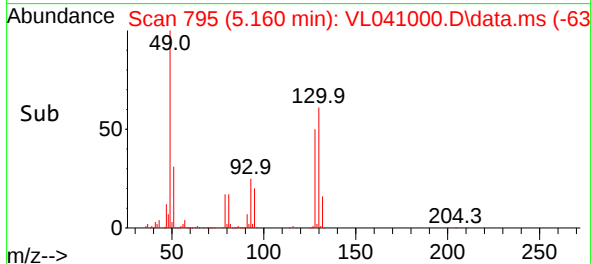
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 49 Resp: 102556
Ion Ratio Lower Upper
49 100
128 48.9 23.9 71.7
130 62.2 31.1 93.5

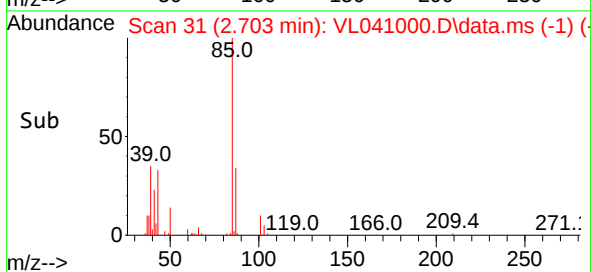
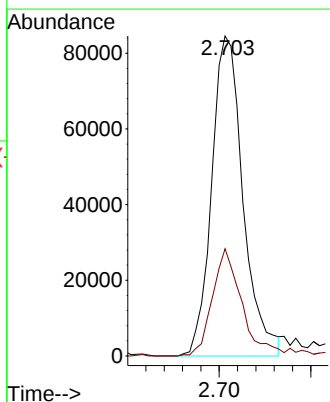
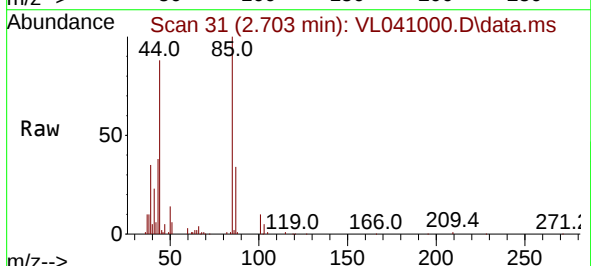
Manual Integrations
APPROVED

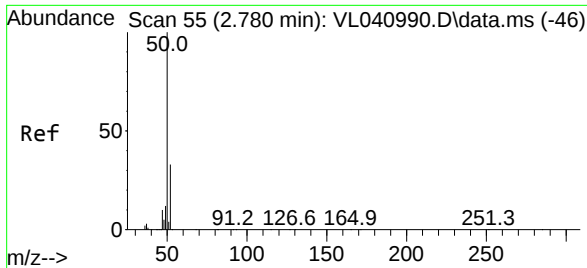
Reviewed By :Semsettin Yesilyurt 01/24/2024
Supervised By :Mahesh Dadoda 01/24/2024



#2
Dichlorodifluoromethane
Concen: 0.444 ppbv
RT: 2.703 min Scan# 31
Delta R.T. 0.006 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

Tgt Ion: 85 Resp: 100469
Ion Ratio Lower Upper
85 100
87 33.5 26.3 39.5





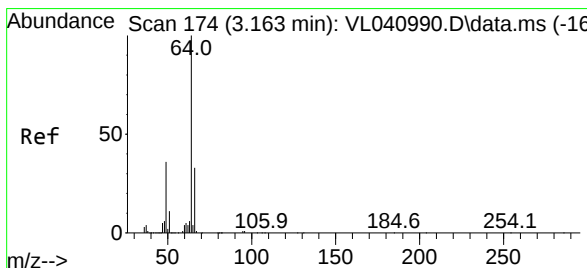
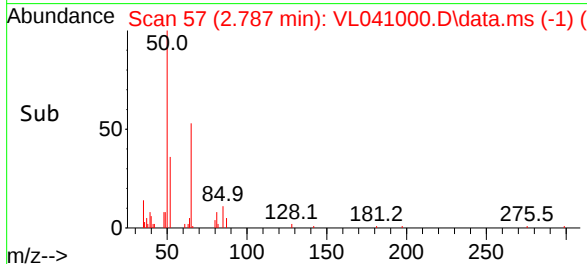
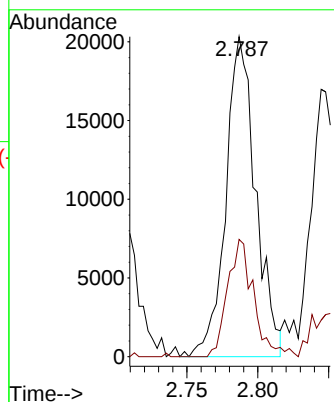
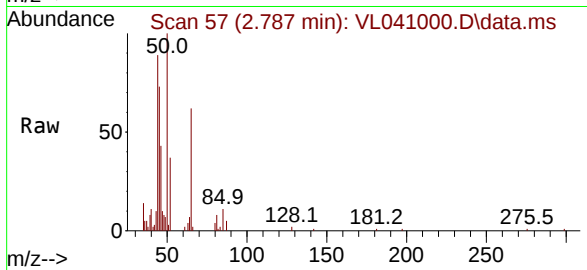
#4
Chloromethane
Concen: 0.460 ppbv
RT: 2.787 min Scan# 51
Delta R.T. 0.006 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 50 Resp: 2976
Ion Ratio Lower Upper
50 100
52 36.5 26.2 39.4

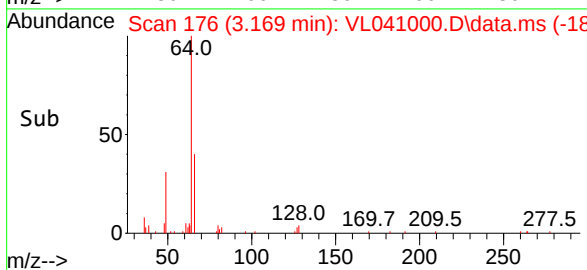
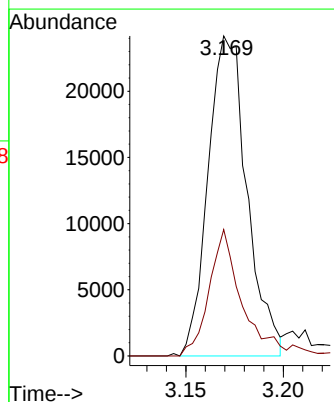
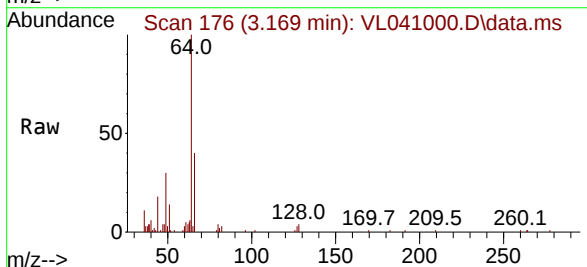
Manual Integrations
APPROVED

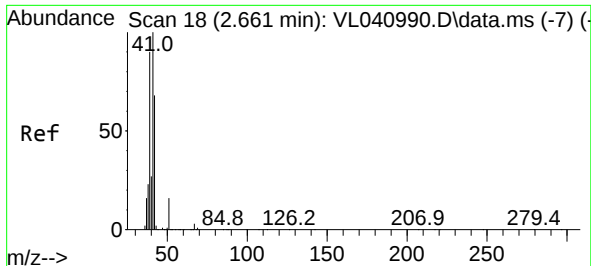
Reviewed By :Semsettin Yesilyurt 01/24/2024
Supervised By :Mahesh Dadoda 01/24/2024



#7
Chloroethane
Concen: 1.470 ppbv
RT: 3.169 min Scan# 176
Delta R.T. 0.006 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

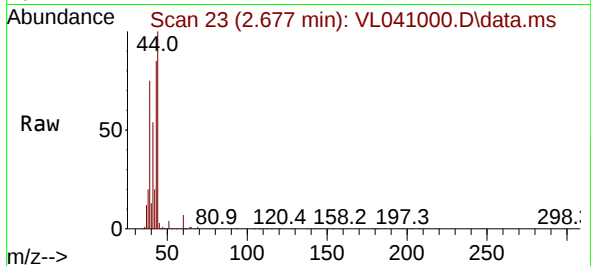
Tgt Ion: 64 Resp: 33549
Ion Ratio Lower Upper
64 100
66 39.5 26.0 39.0#





#9
 Propene
 Concen: 5.157 ppbv m
 RT: 2.677 min Scan# 21
 Delta R.T. 0.016 min
 Lab File: VL041000.D
 Acq: 23 Jan 2024 17:26

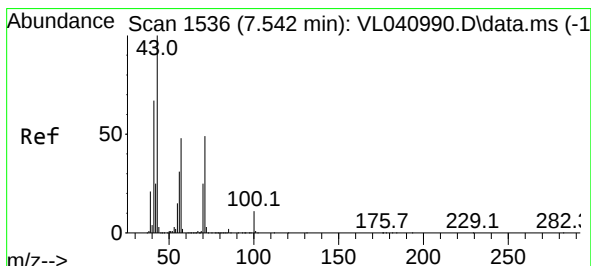
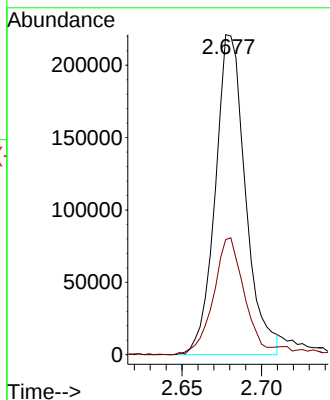
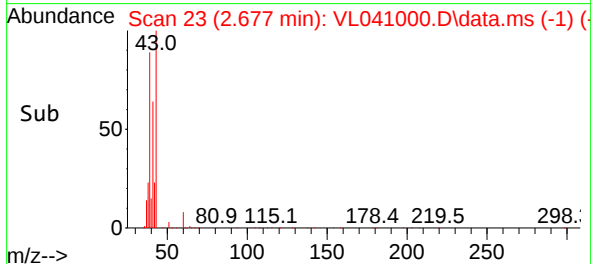
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



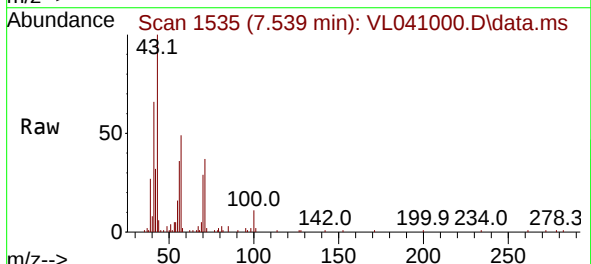
Tgt Ion: 41 Resp: 29175
 Ion Ratio Lower Upper
 41 100
 42 201.4 59.0 88.4

Manual Integrations
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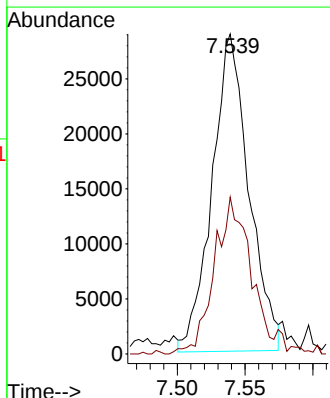
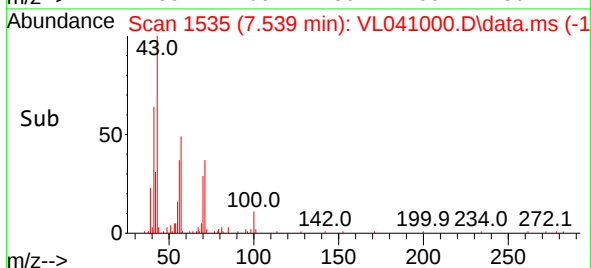
Reviewed By :Semsettin Yesilyurt 01/24/2024
 Supervised By :Mahesh Dadoda 01/24/2024

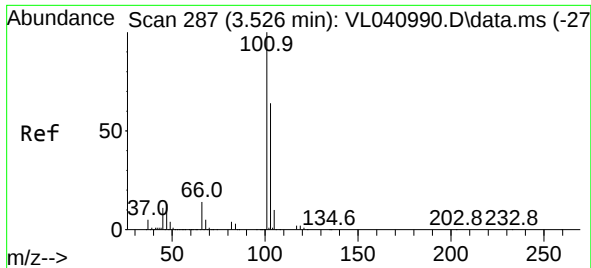


#10
 Heptane
 Concen: 0.391 ppbv
 RT: 7.539 min Scan# 1535
 Delta R.T. -0.003 min
 Lab File: VL041000.D
 Acq: 23 Jan 2024 17:26



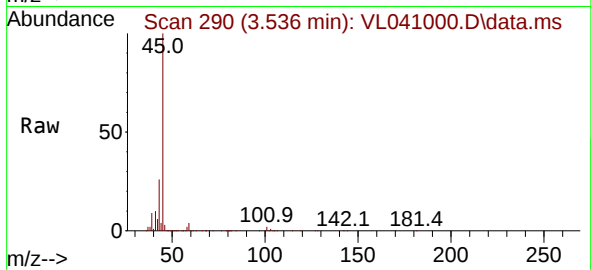
Tgt Ion: 43 Resp: 54506
 Ion Ratio Lower Upper
 43 100
 57 50.9 39.4 59.2





#11
Trichlorofluoromethane
Concen: 0.215 ppbv m
RT: 3.536 min Scan# 290
Delta R.T. 0.010 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

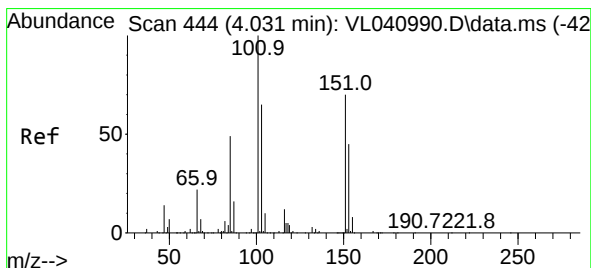
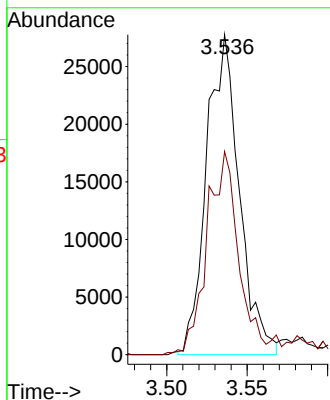
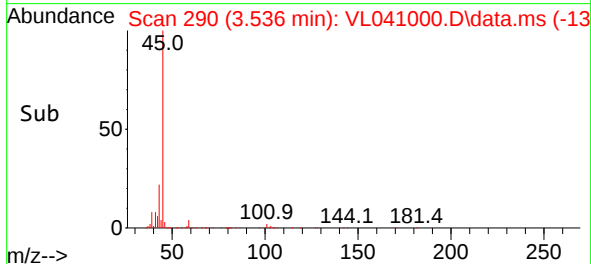
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:101 Resp: 3925
Ion Ratio Lower Upper
101 100
103 63.5 51.4 77.2

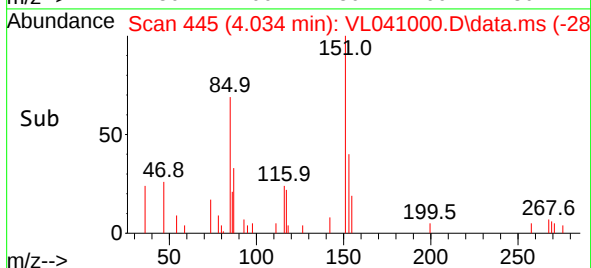
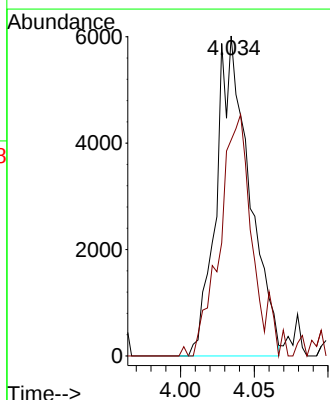
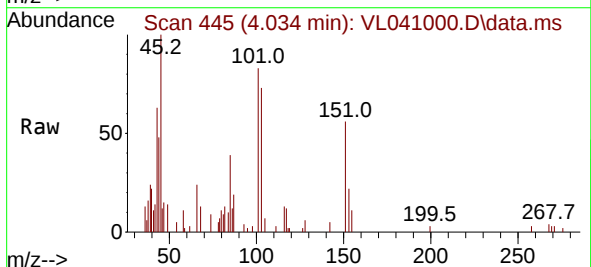
Manual Integrations
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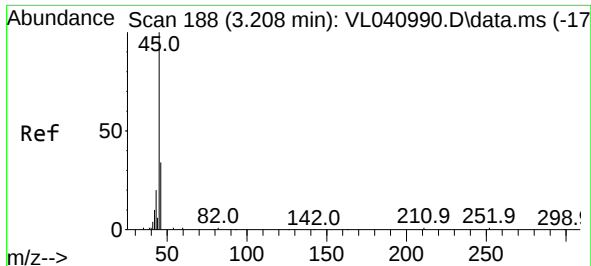
Reviewed By :Semsettin Yesilyurt 01/24/2024
Supervised By :Mahesh Dadoda 01/24/2024



#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.071 ppbv m
RT: 4.034 min Scan# 445
Delta R.T. 0.003 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

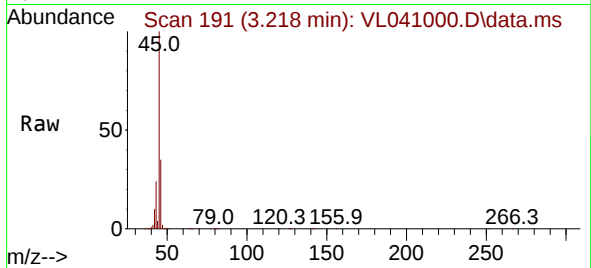
Tgt Ion:101 Resp: 9438
Ion Ratio Lower Upper
101 100
151 77.2 56.6 85.0





#13
Ethanol
Concen: 385.496 ppbv
RT: 3.218 min Scan# 191
Delta R.T. 0.010 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

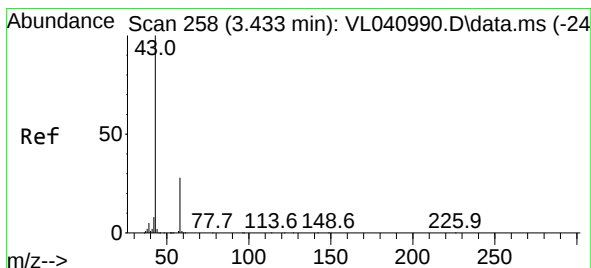
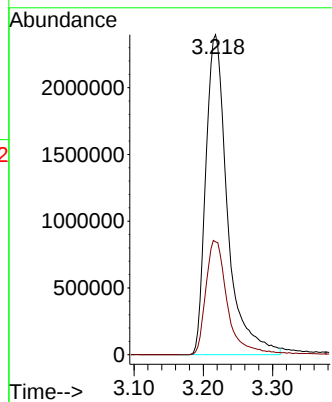
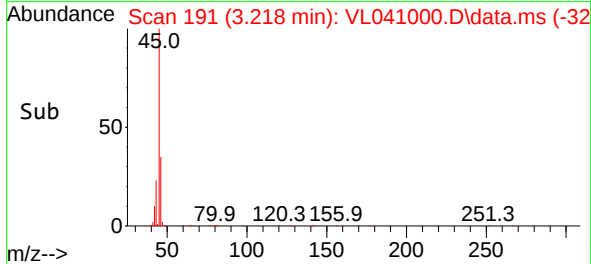
Instrument :
MSVOA_L
ClientSampleId :
IA1



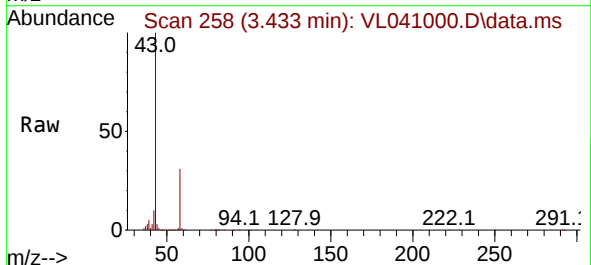
Tgt Ion: 45 Resp: 5198219
Ion Ratio Lower Upper
45 100
46 36.5 16.2 64.8

Manual Integrations
APPROVED

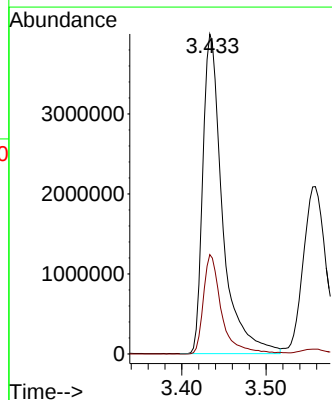
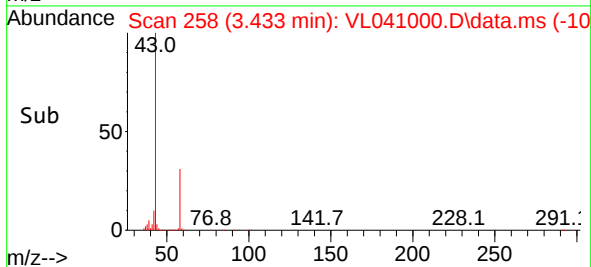
Reviewed By :Semsettin Yesilyurt 01/24/2024
Supervised By :Mahesh Dadoda 01/24/2024

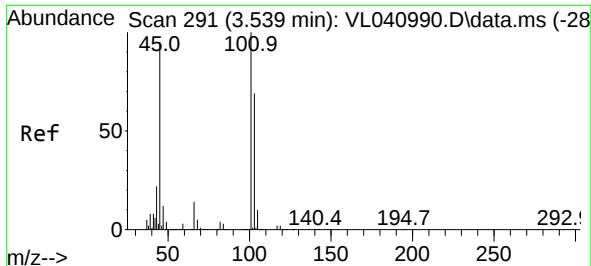


#15
Acetone
Concen: 49.758 ppbv
RT: 3.433 min Scan# 258
Delta R.T. 0.000 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26



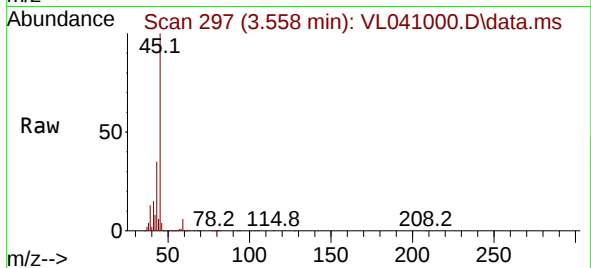
Tgt Ion: 43 Resp: 6525683
Ion Ratio Lower Upper
43 100
58 28.7 22.2 33.2





#19
Isopropyl Alcohol
Concen: 192.947 ppbv
RT: 3.558 min Scan# 291
Delta R.T. 0.019 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

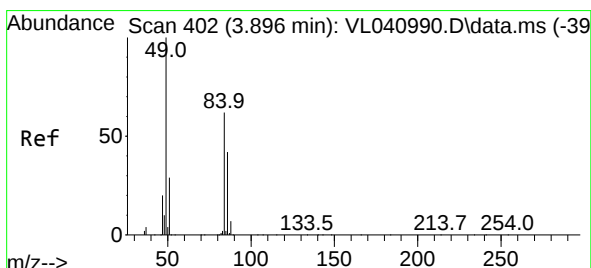
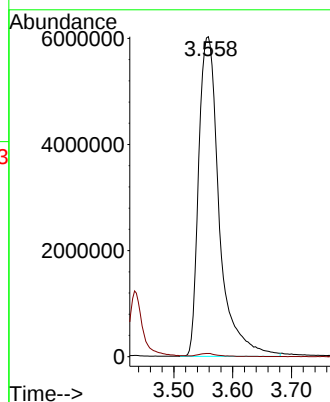
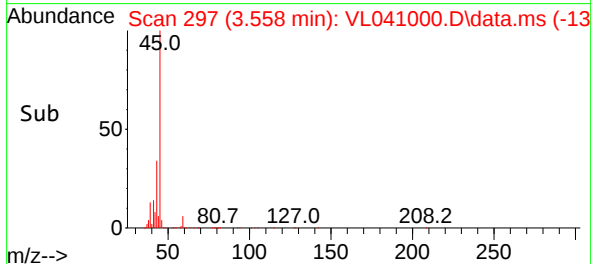
Instrument :
MSVOA_L
ClientSampleId :
IA1



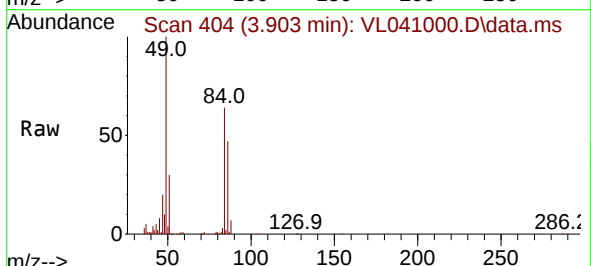
Tgt Ion: 45 Resp:14647900
Ion Ratio Lower Upper
45 100
58 1.1 2.2 3.4

Manual Integrations
APPROVED

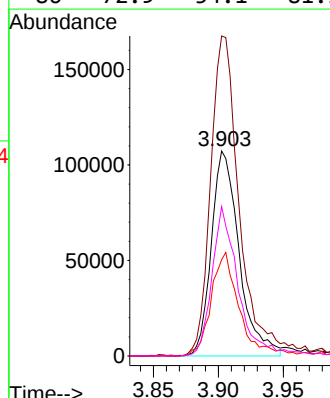
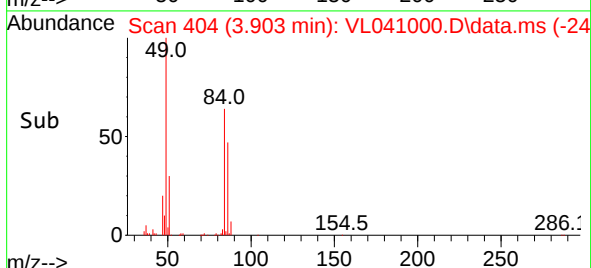
Reviewed By :Semsettin Yesilyurt 01/24/2024
Supervised By :Mahesh Dadoda 01/24/2024

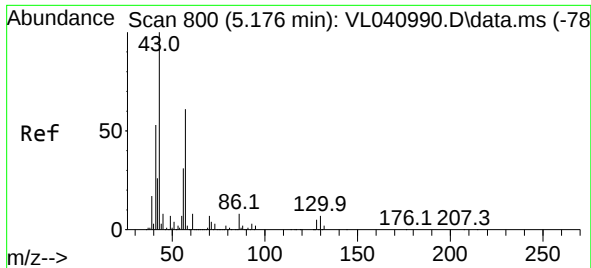


#20
Methylene Chloride
Concen: 3.171 ppbv
RT: 3.903 min Scan# 404
Delta R.T. 0.006 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26



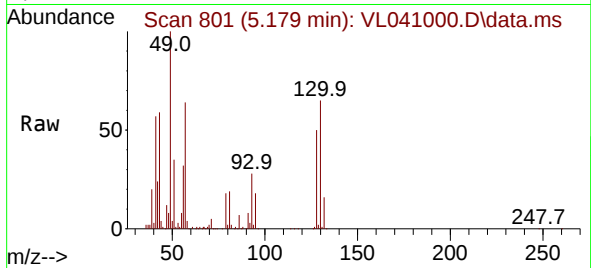
Tgt Ion: 84 Resp: 160023
Ion Ratio Lower Upper
84 100
49 155.8 128.1 192.1
51 47.0 36.5 54.7
86 72.9 54.1 81.1





#26
Hexane
Concen: 1.612 ppbv
RT: 5.179 min Scan# 800
Delta R.T. 0.003 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

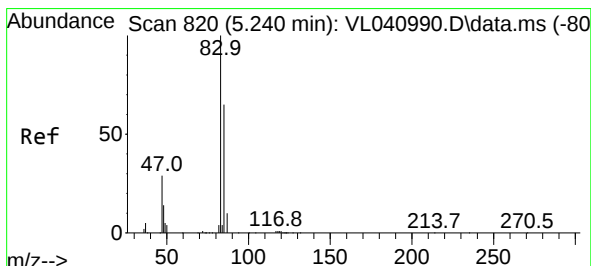
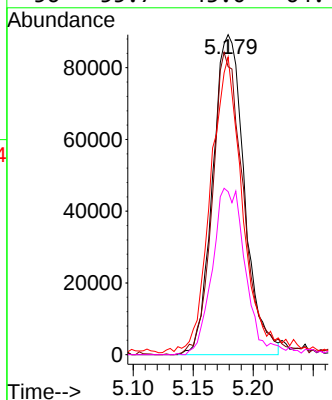
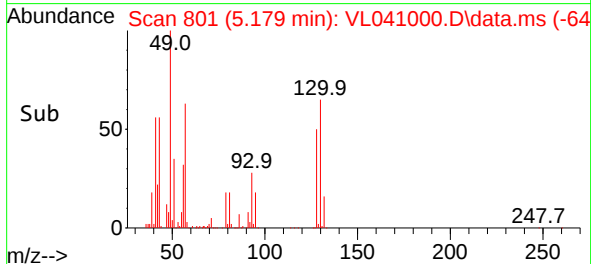
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 57 Resp: 163424
Ion Ratio Lower Upper
57 100
41 95.0 74.4 111.6
43 96.1 190.6 285.8
56 55.7 43.0 64.4

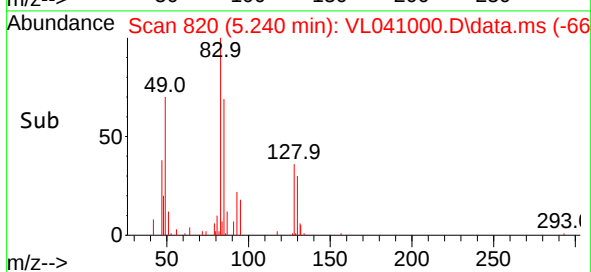
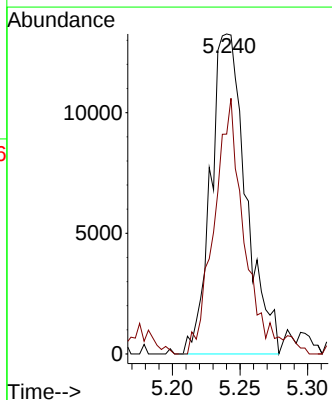
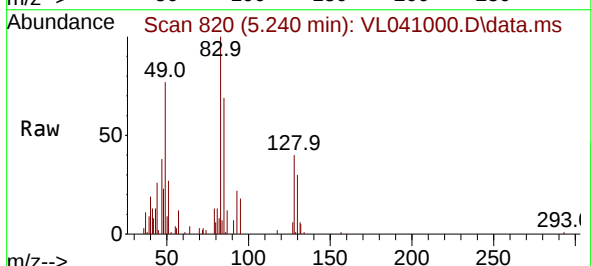
Manual Integrations
APPROVED

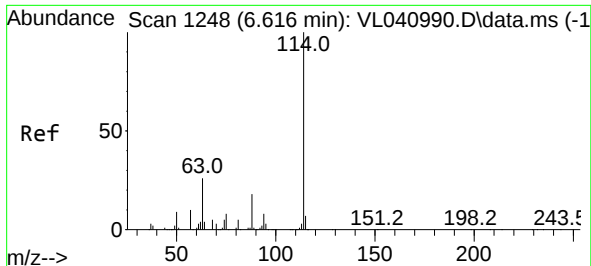
Reviewed By :Semsettin Yesilyurt 01/24/2024
Supervised By :Mahesh Dadoda 01/24/2024



#29
Chloroform
Concen: 0.133 ppbv m
RT: 5.240 min Scan# 820
Delta R.T. 0.000 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

Tgt Ion: 83 Resp: 23996
Ion Ratio Lower Upper
83 100
85 68.7 51.6 77.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.616 min Scan# 1

Delta R.T. 0.000 min

Lab File: VL041000.D

Acq: 23 Jan 2024 17:26

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion:114 Resp: 2627949

Ion Ratio Lower Upper

114 100

63 25.2 20.8 31.2

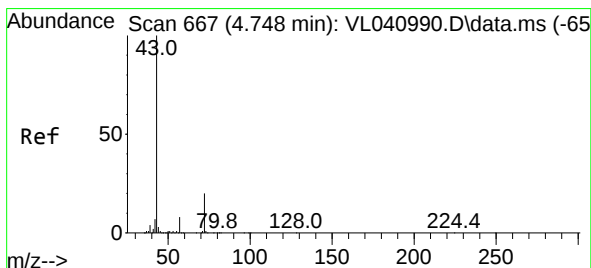
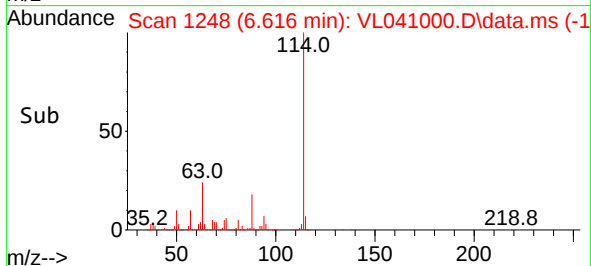
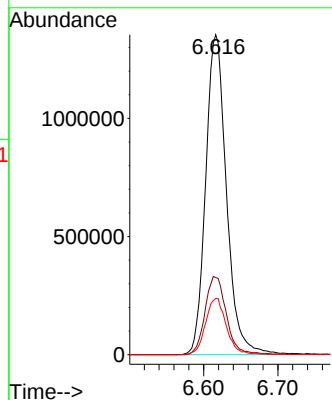
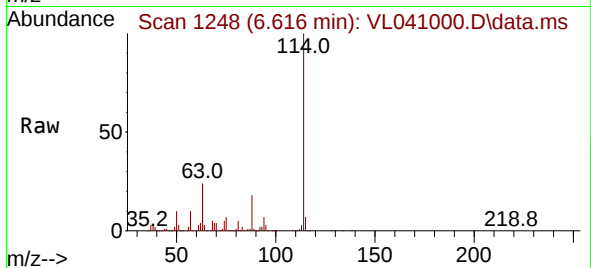
88 17.7 14.3 21.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/24/2024

Supervised By :Mahesh Dadoda 01/24/2024



#34

2-Butanone

Concen: 5.888 ppbv

RT: 4.748 min Scan# 667

Delta R.T. 0.000 min

Lab File: VL041000.D

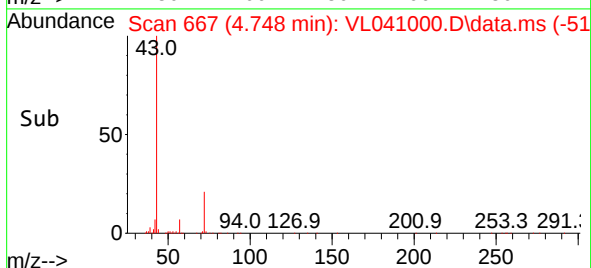
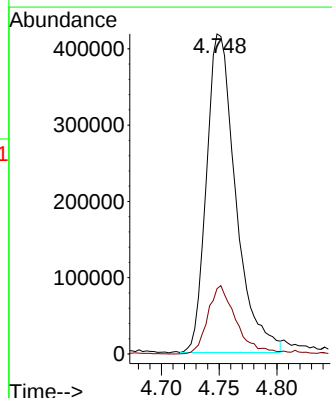
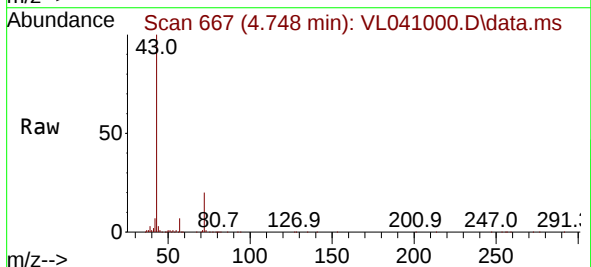
Acq: 23 Jan 2024 17:26

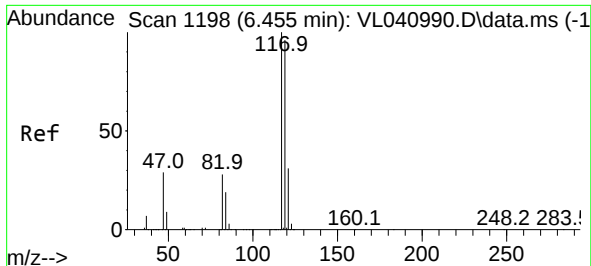
Tgt Ion: 43 Resp: 737208

Ion Ratio Lower Upper

43 100

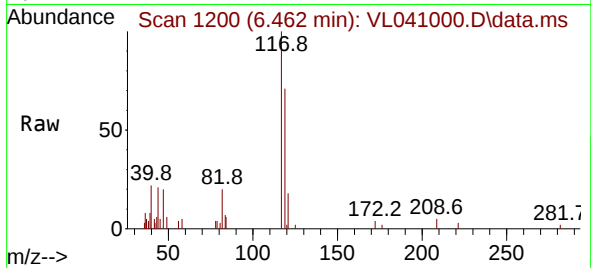
72 21.4 17.5 26.3





#35
Carbon Tetrachloride
Concen: 0.073 ppbv m
RT: 6.462 min Scan# 1198
Delta R.T. 0.006 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

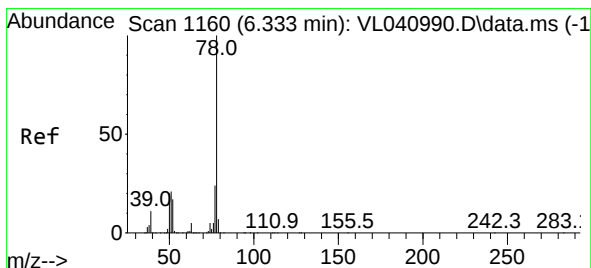
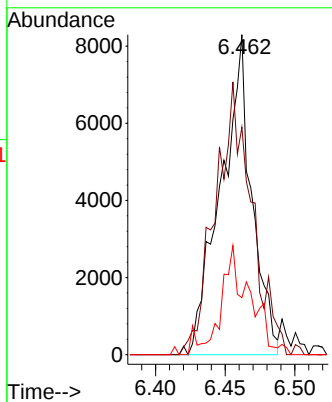
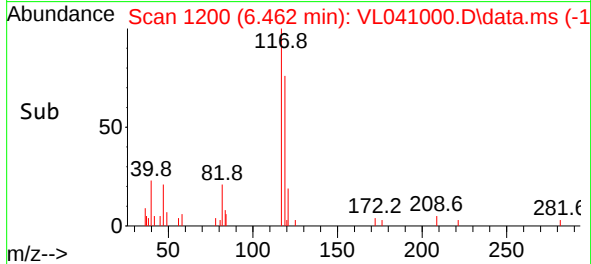
Instrument :
MSVOA_L
ClientSampleId :
IA1



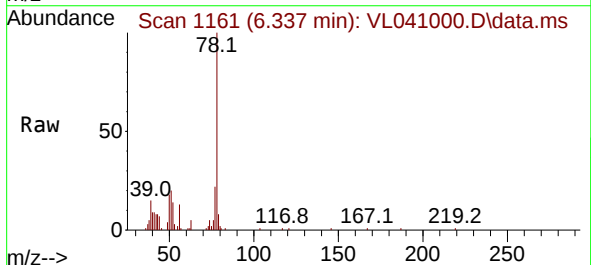
Tgt Ion:117 Resp: 12832
Ion Ratio Lower Upper
117 100
119 71.1 76.9 115.3
121 17.8 24.7 37.1

Manual Integrations
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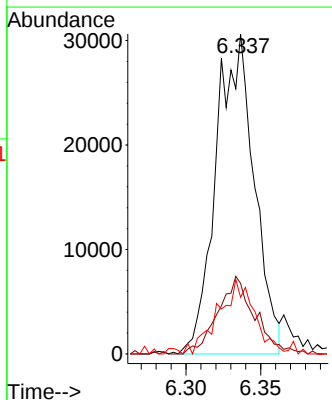
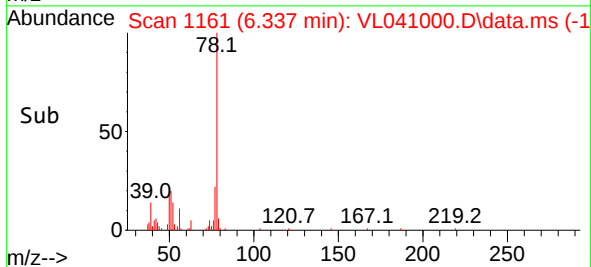
Reviewed By :Semsettin Yesilyurt 01/24/2024
Supervised By :Mahesh Dadoda 01/24/2024

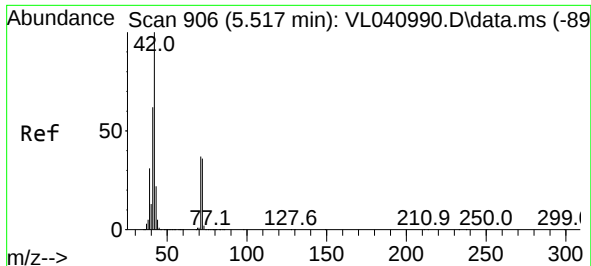


#36
Benzene
Concen: 0.251 ppbv m
RT: 6.337 min Scan# 1161
Delta R.T. 0.003 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26



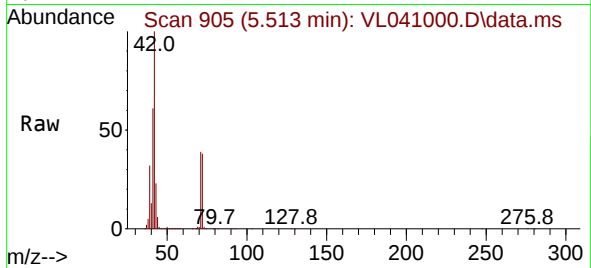
Tgt Ion: 78 Resp: 54471
Ion Ratio Lower Upper
78 100
77 22.1 19.0 28.4
50 17.7 15.8 23.6





#41
Tetrahydrofuran
Concen: 18.447 ppbv
RT: 5.513 min Scan# 906
Delta R.T. -0.003 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

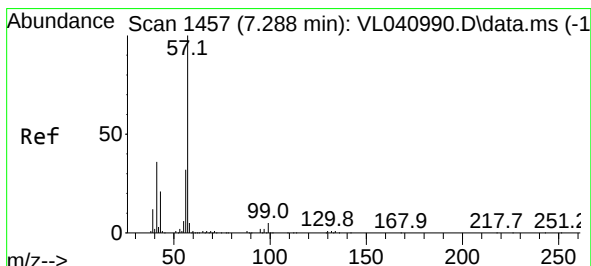
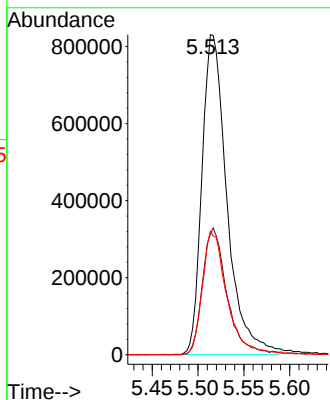
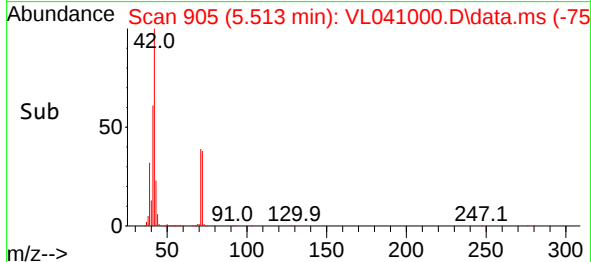
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 42 Resp: 1568130
Ion Ratio Lower Upper
42 100
72 39.4 30.0 45.0
71 38.5 29.5 44.3

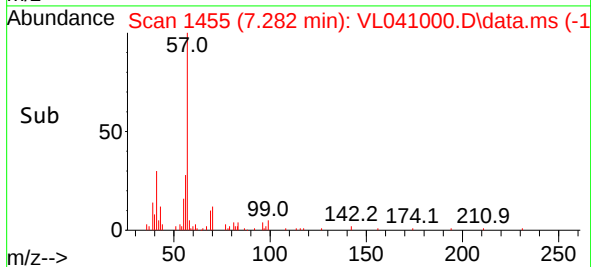
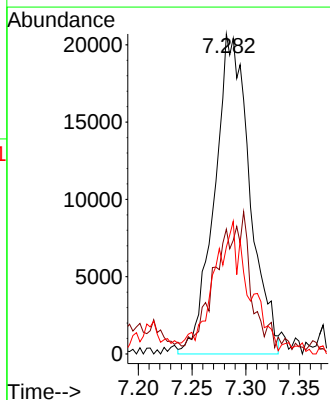
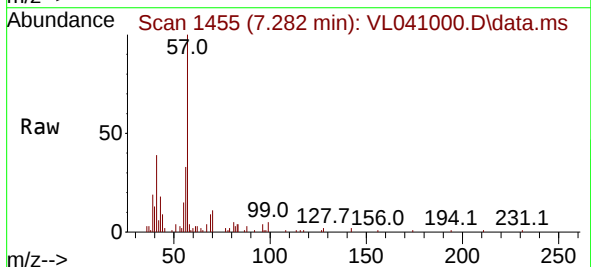
Manual Integrations
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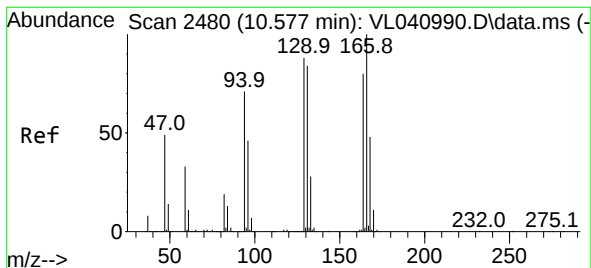
Reviewed By :Semsettin Yesilyurt 01/24/2024
Supervised By :Mahesh Dadoda 01/24/2024



#44
2,2,4-Trimethylpentane
Concen: 0.129 ppbv
RT: 7.282 min Scan# 1455
Delta R.T. -0.006 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

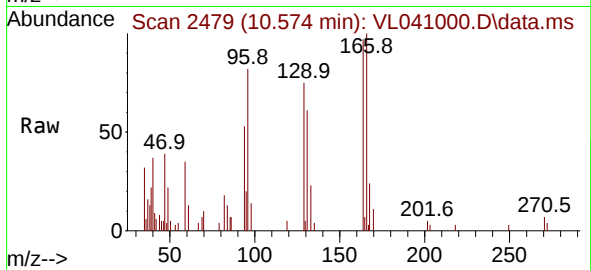
Tgt Ion: 57 Resp: 47250
Ion Ratio Lower Upper
57 100
41 44.6 28.6 43.0#
56 44.9 25.2 37.8#





#52
Tetrachloroethene
Concen: 0.127 ppbv m
RT: 10.574 min Scan# 2480
Delta R.T. -0.003 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

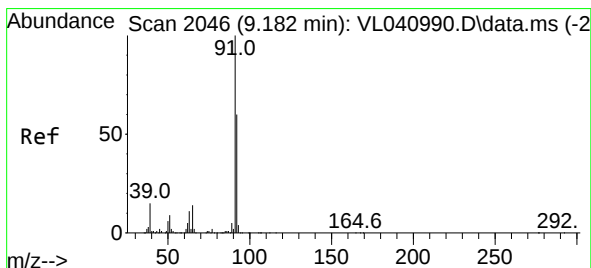
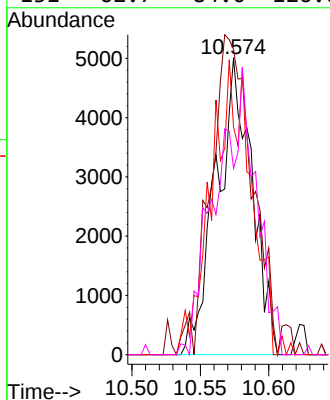
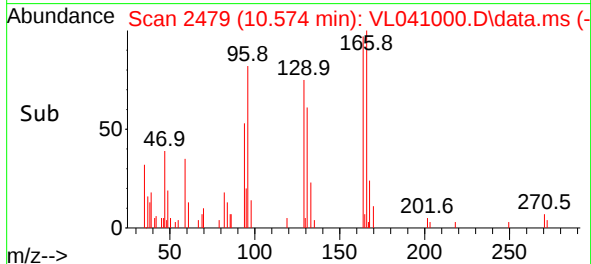
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:164 Resp: 916
Ion Ratio Lower Upper
164 100
166 102.8 100.2 150.2
129 76.6 87.9 131.9
131 62.7 84.0 126.0#

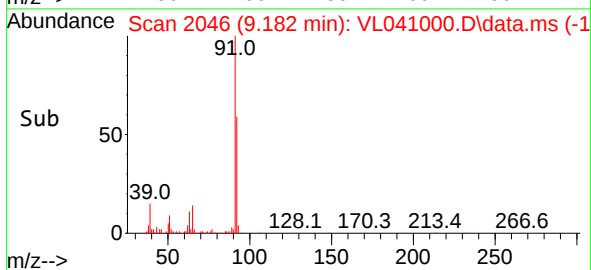
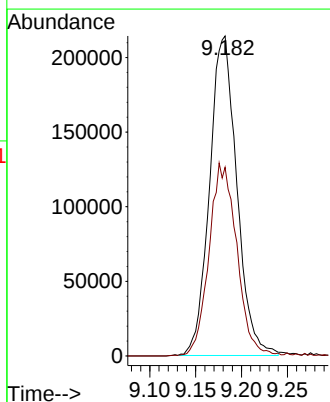
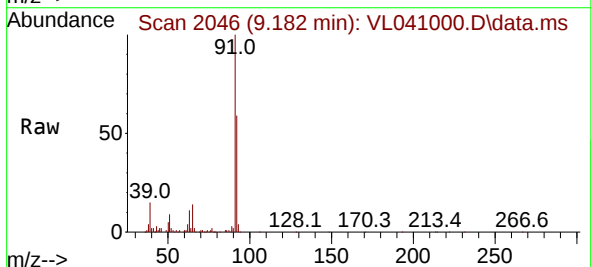
Manual Integrations
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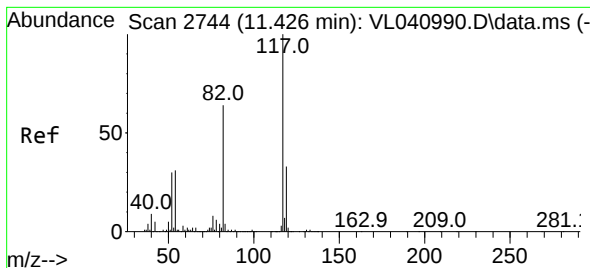
Reviewed By :Semsettin Yesilyurt 01/24/2024
Supervised By :Mahesh Dadoda 01/24/2024



#53
Toluene
Concen: 1.865 ppbv
RT: 9.182 min Scan# 2046
Delta R.T. 0.000 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

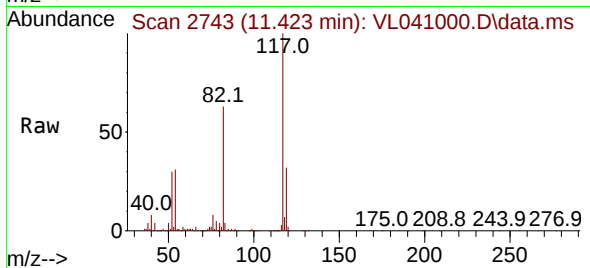
Tgt Ion: 91 Resp: 443447
Ion Ratio Lower Upper
91 100
92 62.0 48.6 72.8





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.423 min Scan# 2743
Delta R.T. -0.003 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

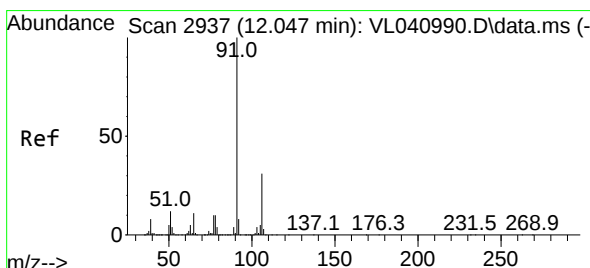
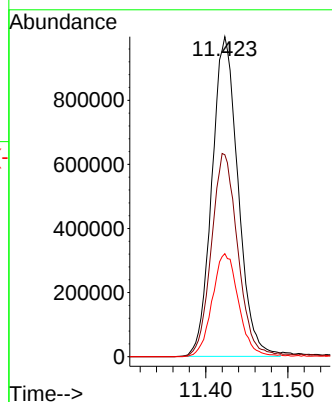
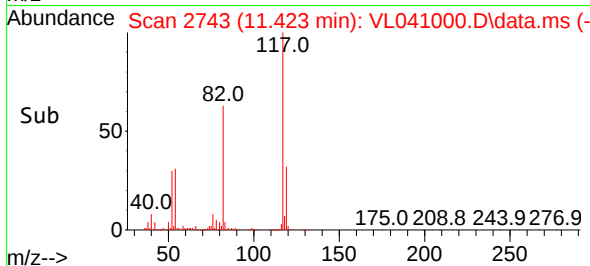
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:117 Resp: 221318
Ion Ratio Lower Upper
117 100
82 65.1 51.7 77.5
119 32.9 23.8 35.6

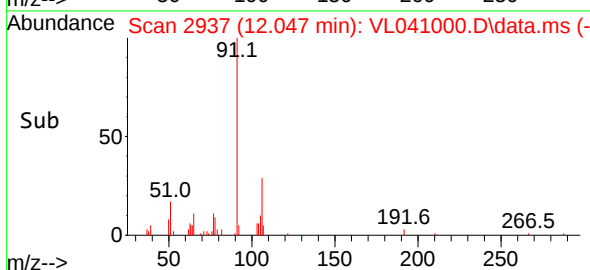
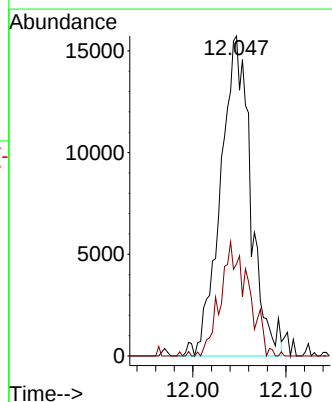
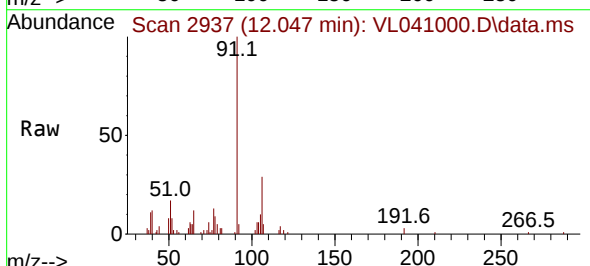
Manual Integrations
APPROVED

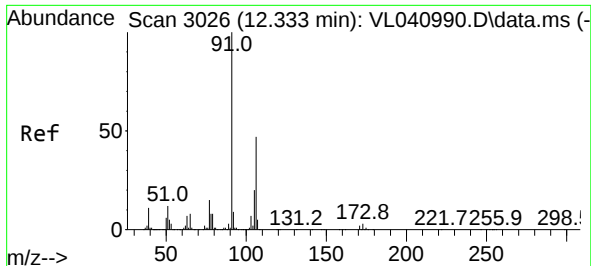
Reviewed By :Semsettin Yesilyurt 01/24/2024
Supervised By :Mahesh Dadoda 01/24/2024



#58
Ethyl Benzene
Concen: 0.120 ppbv m
RT: 12.047 min Scan# 2937
Delta R.T. 0.000 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

Tgt Ion: 91 Resp: 35516
Ion Ratio Lower Upper
91 100
106 28.8 24.8 37.2





#59

m/p-Xylene

Concen: 0.416 ppbv m

RT: 12.307 min Scan# 3026

Delta R.T. -0.026 min

Lab File: VL041000.D

Acq: 23 Jan 2024 17:26

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 91 Resp: 107689

Ion Ratio Lower Upper

91 100

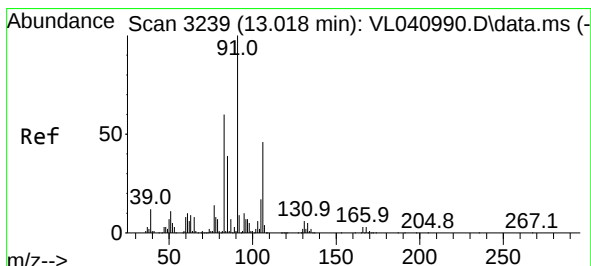
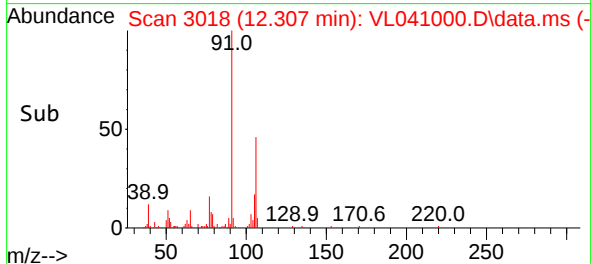
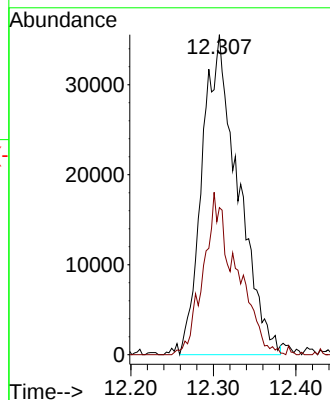
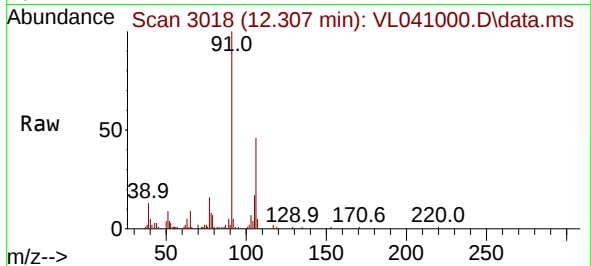
106 0.0 34.9 52.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/24/2024

Supervised By :Mahesh Dadoda 01/24/2024



#60

o-Xylene

Concen: 0.155 ppbv m

RT: 13.018 min Scan# 3239

Delta R.T. 0.000 min

Lab File: VL041000.D

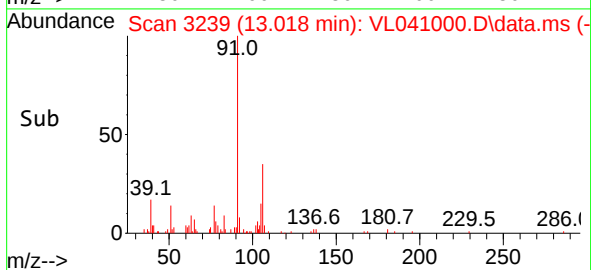
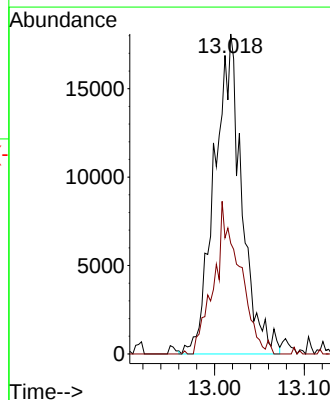
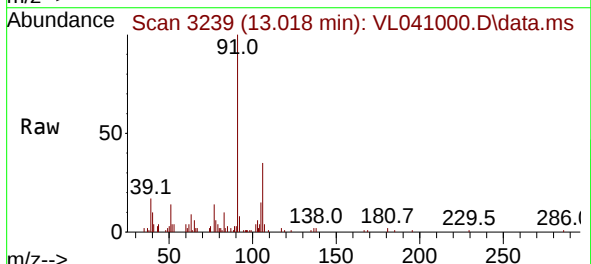
Acq: 23 Jan 2024 17:26

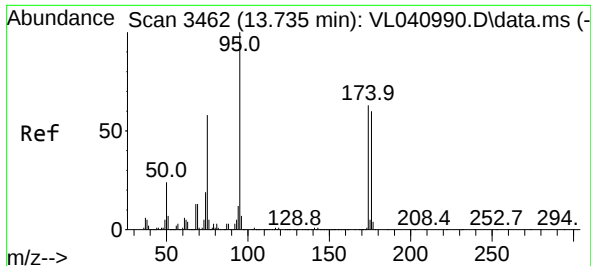
Tgt Ion: 91 Resp: 38489

Ion Ratio Lower Upper

91 100

106 44.6 22.6 67.7





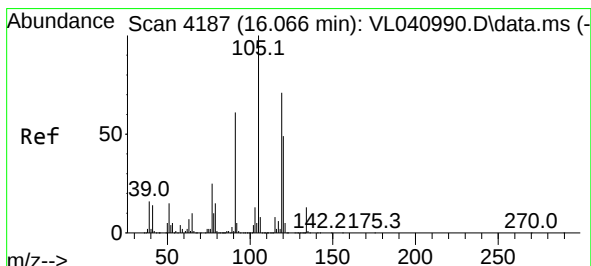
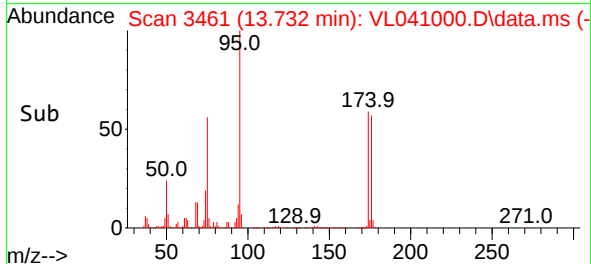
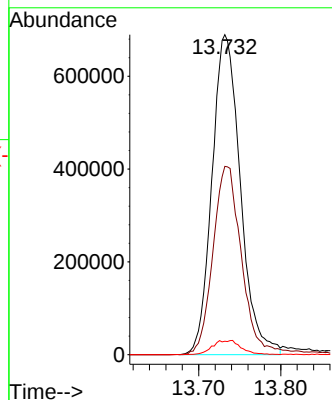
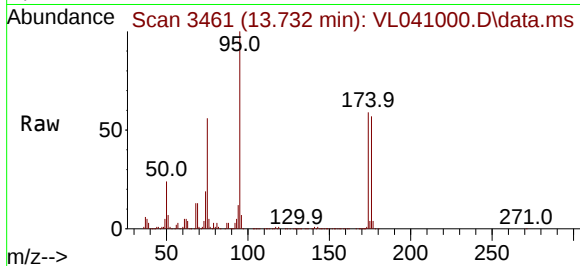
#68
1-Bromo-4-Fluorobenzene
Concen: 9.922 ppbv
RT: 13.732 min Scan# 3462
Delta R.T. -0.003 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion: 95 Resp: 165858
Ion Ratio Lower Upper
95 100
174 60.8 49.1 73.7
175 4.5 3.7 5.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/24/2024
Supervised By :Mahesh Dadoda 01/24/2024



#74
1,2,4-Trimethylbenzene
Concen: 0.121 ppbv m
RT: 16.076 min Scan# 4190
Delta R.T. 0.010 min
Lab File: VL041000.D
Acq: 23 Jan 2024 17:26

Tgt Ion:105 Resp: 33735
Ion Ratio Lower Upper
105 100
120 33.6 39.3 58.9#
91 11.9 48.7 73.1#
77 22.5 19.8 29.8

