

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122222\
 Data File : VL040064.D
 Acq On : 22 Dec 2022 12:29
 Operator : SY/MD
 Sample : N6181-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2022
 Supervised By :Mahesh Dadoda 12/27/2022

Quant Time: Dec 23 06:27:10 2022

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121922AIR.M

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

QLast Update : Tue Dec 20 04:50:21 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.169	49	932941	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.632	114	2534316	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.449	117	2183708	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.761	95	1659533	9.949	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.706	85	45149	0.259	ppbv	91
4) Chloromethane	2.790	50	28297	0.328	ppbv	97
9) Propene	2.677	41	110086m	1.885	ppbv	
11) Trichlorofluoromethane	3.539	101	36967	0.195	ppbv	99
13) Ethanol	3.218	45	1362131	247.753	ppbv	97
15) Acetone	3.446	43	779571	5.402	ppbv	94
20) Methylene Chloride	3.909	84	3436801	56.024	ppbv	94
26) Hexane	5.192	57	1042729	9.926	ppbv #	37
29) Chloroform	5.250	83	124519	0.777	ppbv	99
36) Benzene	6.349	78	133619	0.590	ppbv	97
44) 2,2,4-Trimethylpentane	7.304	57	70515	0.189	ppbv #	75
52) Tetrachloroethene	10.597	164	10102m	0.131	ppbv	
53) Toluene	9.201	91	227176	0.907	ppbv	99
58) Ethyl Benzene	12.073	91	44539m	0.144	ppbv	
59) m/p-Xylene	12.333	91	113054m	0.418	ppbv	
60) o-Xylene	13.040	91	43694m	0.169	ppbv	
74) 1,2,4-Trimethylbenzene	16.098	105	43332m	0.152	ppbv	
76) 1,4-Dichlorobenzene	16.468	146	16289	0.107	ppbv	88

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

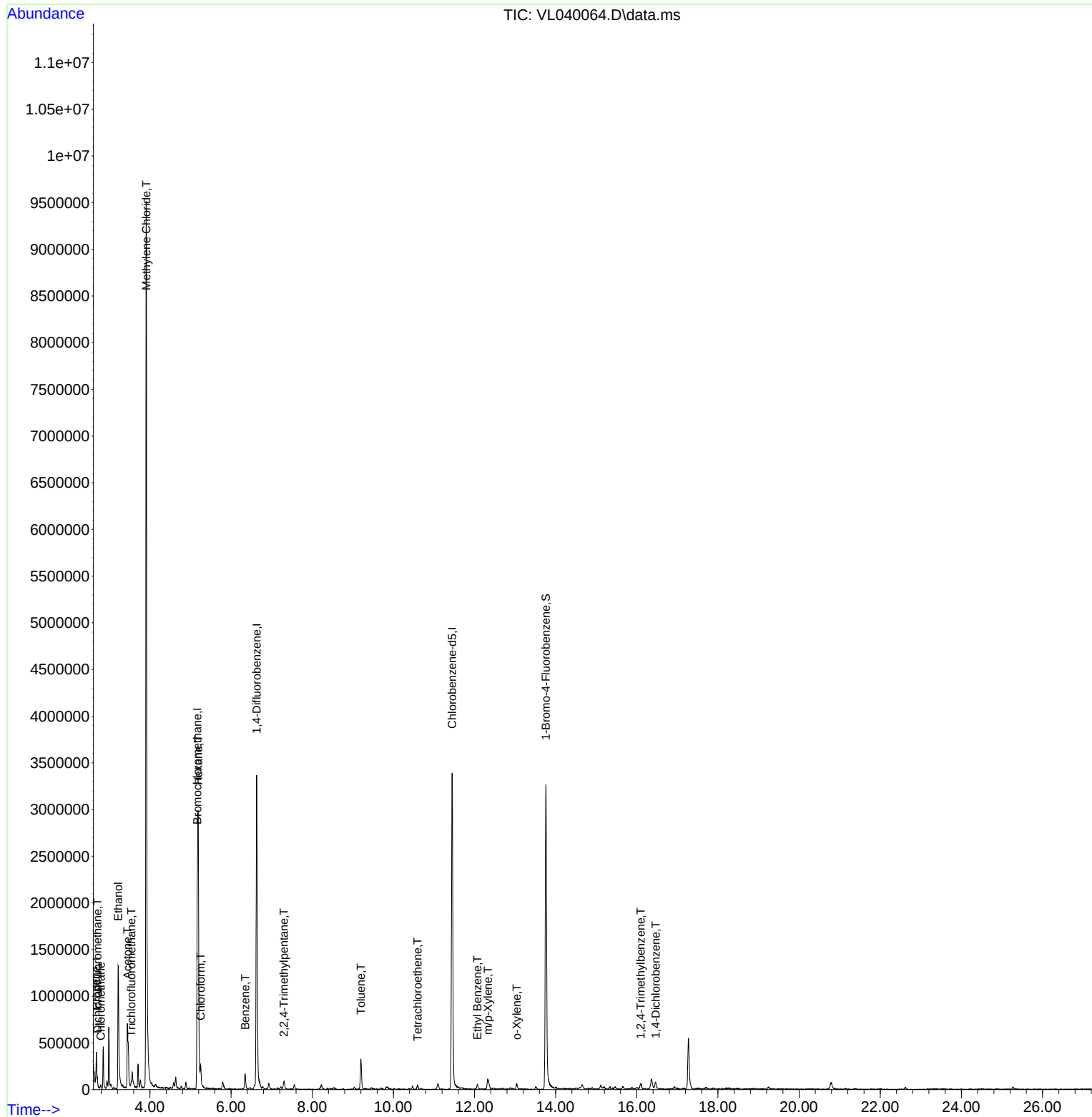
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122222\
Data File : VL040064.D
Acq On : 22 Dec 2022 12:29
Operator : SY/MD
Sample : N6181-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

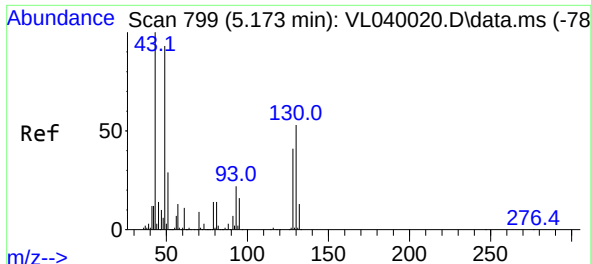
Instrument :
MSVOA_L
ClientSampleId :
IA1

Quant Time: Dec 23 06:27:10 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121922AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Dec 20 04:50:21 2022
Response via : Initial Calibration

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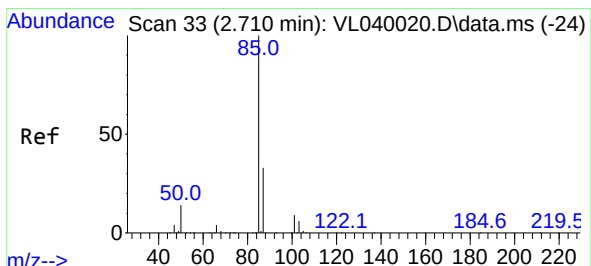
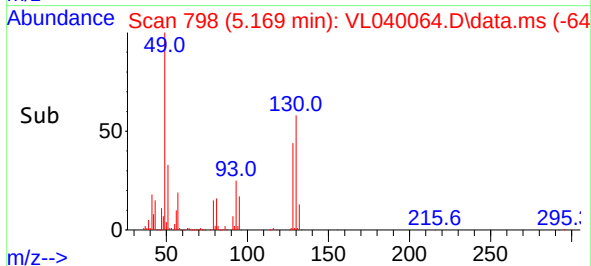
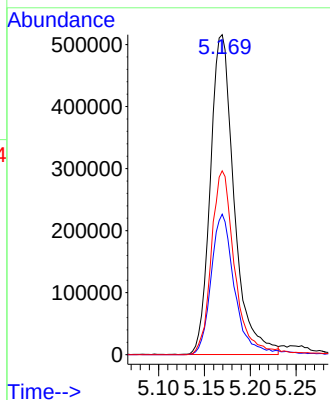
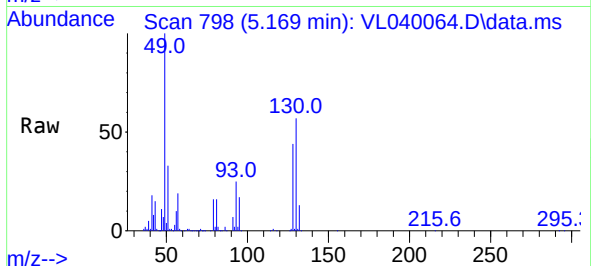
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.169 min Scan# 799
Delta R.T. -0.004 min
Lab File: VL040064.D
Acq: 22 Dec 2022 12:29

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 49 Resp: 93294
Ion Ratio Lower Upper
49 100
128 43.9 22.4 67.3
130 57.7 28.9 86.8

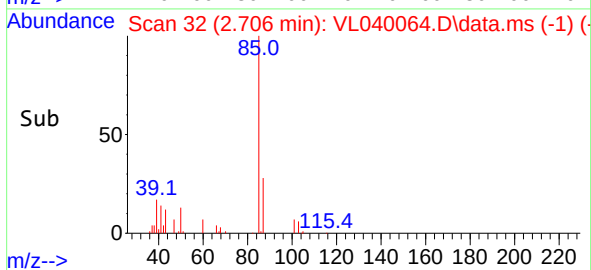
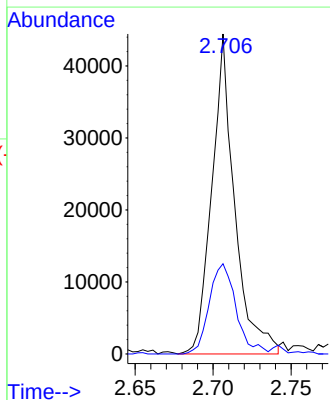
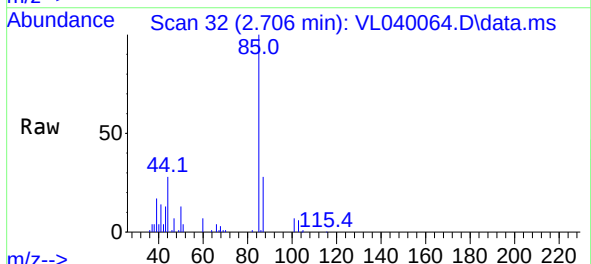
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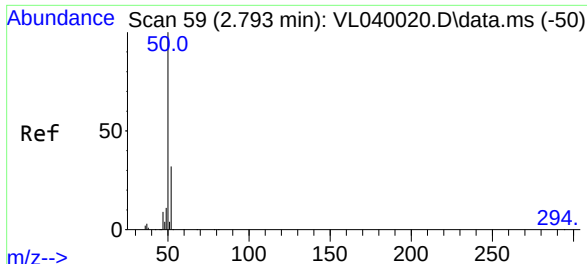
Reviewed By :Semsettin Yesilyurt 12/23/2022
Supervised By :Mahesh Dadoda 12/27/2022



#2
Dichlorodifluoromethane
Concen: 0.259 ppbv
RT: 2.706 min Scan# 32
Delta R.T. -0.003 min
Lab File: VL040064.D
Acq: 22 Dec 2022 12:29

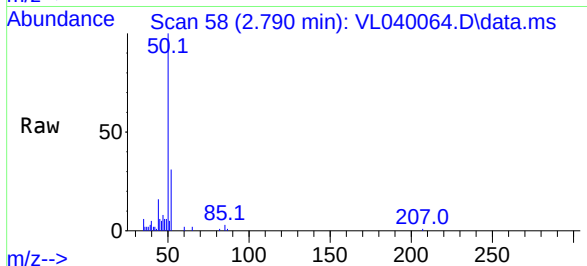
Tgt Ion: 85 Resp: 45149
Ion Ratio Lower Upper
85 100
87 28.2 26.6 40.0





#4
Chloromethane
Concen: 0.328 ppbv
RT: 2.790 min Scan# 50
Delta R.T. -0.003 min
Lab File: VL040064.D
Acq: 22 Dec 2022 12:29

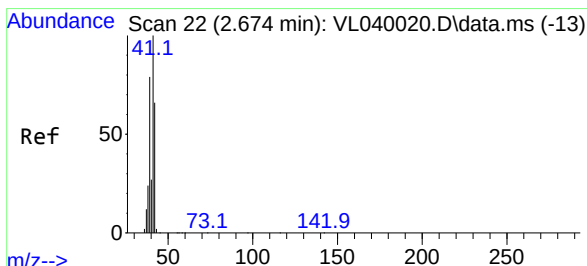
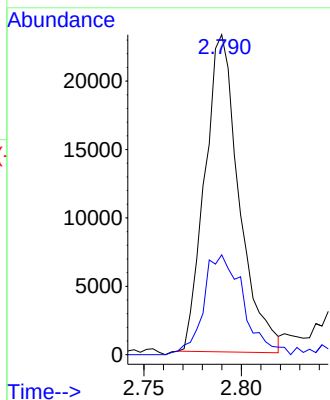
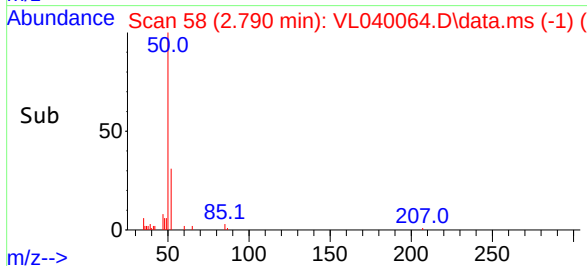
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 50 Resp: 2829
Ion Ratio Lower Upper
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52 30.4 25.5 38.3

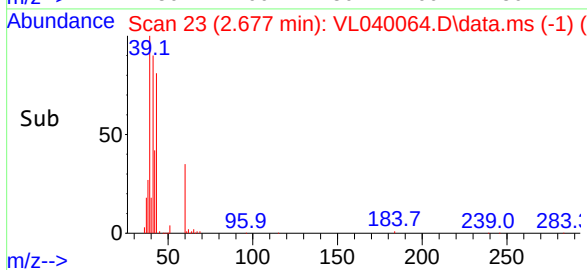
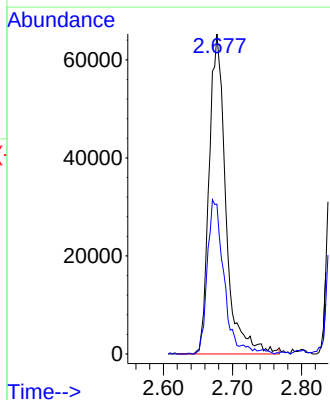
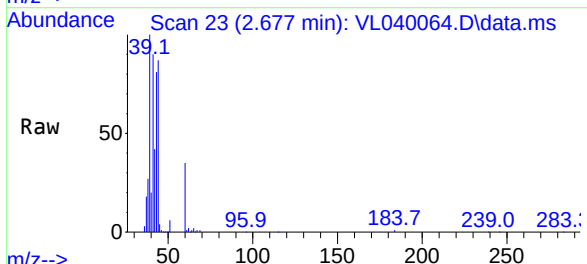
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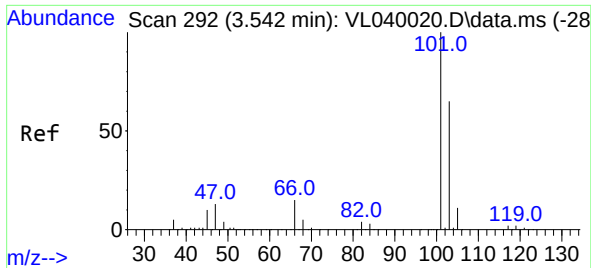
Reviewed By :Semsettin Yesilyurt 12/23/2022
Supervised By :Mahesh Dadoda 12/27/2022



#9
Propene
Concen: 1.885 ppbv m
RT: 2.677 min Scan# 23
Delta R.T. 0.003 min
Lab File: VL040064.D
Acq: 22 Dec 2022 12:29

Tgt Ion: 41 Resp: 110086
Ion Ratio Lower Upper
41 100
42 70.1 54.8 82.2





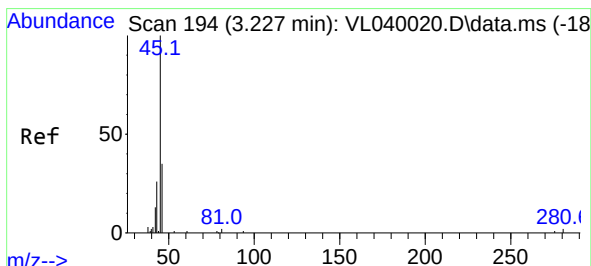
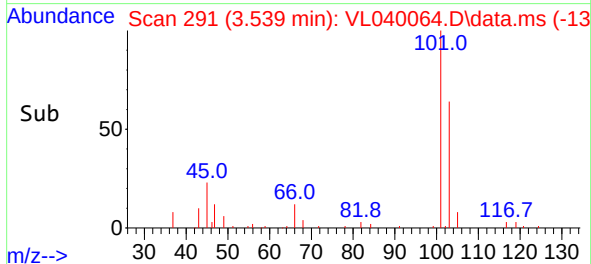
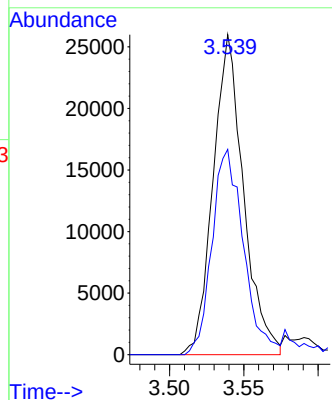
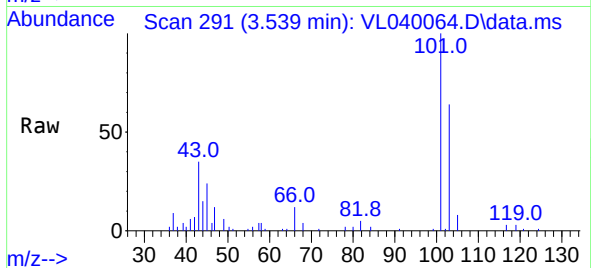
#11
Trichlorofluoromethane
Concen: 0.195 ppbv
RT: 3.539 min Scan# 291
Delta R.T. -0.003 min
Lab File: VL040064.D
Acq: 22 Dec 2022 12:29

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion:101 Resp: 3696
Ion Ratio Lower Upper
101 100
103 64.2 51.7 77.5

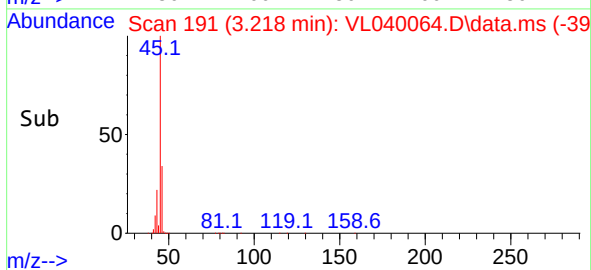
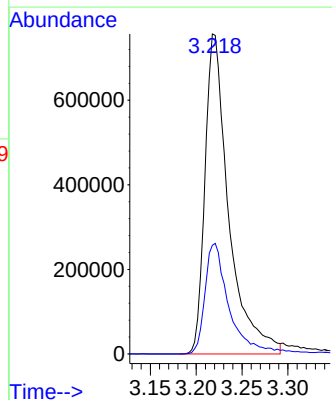
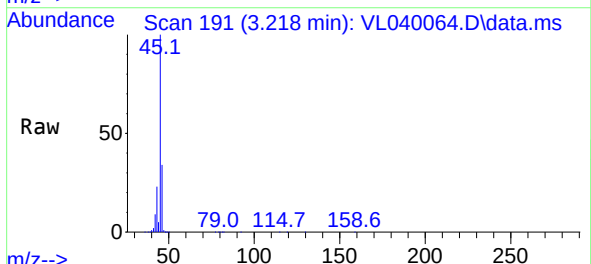
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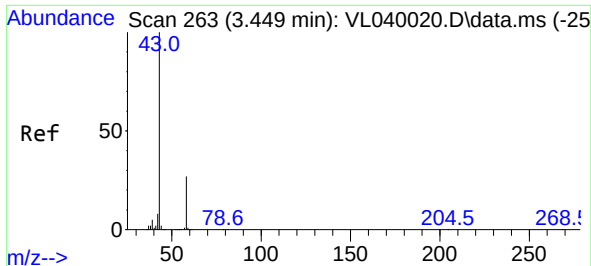
Reviewed By :Semsettin Yesilyurt 12/23/2022
Supervised By :Mahesh Dadoda 12/27/2022



#13
Ethanol
Concen: 247.753 ppbv
RT: 3.218 min Scan# 191
Delta R.T. -0.010 min
Lab File: VL040064.D
Acq: 22 Dec 2022 12:29

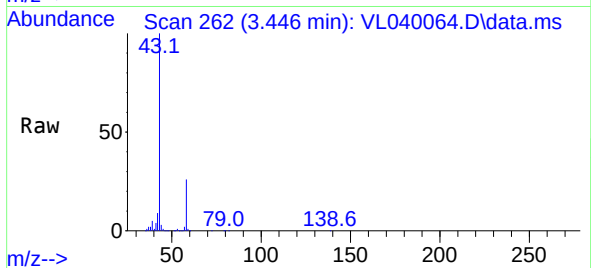
Tgt Ion: 45 Resp: 1362131
Ion Ratio Lower Upper
45 100
46 35.9 13.7 54.7





#15
Acetone
Concen: 5.402 ppbv
RT: 3.446 min Scan# 20
Delta R.T. -0.003 min
Lab File: VL040064.D
Acq: 22 Dec 2022 12:29

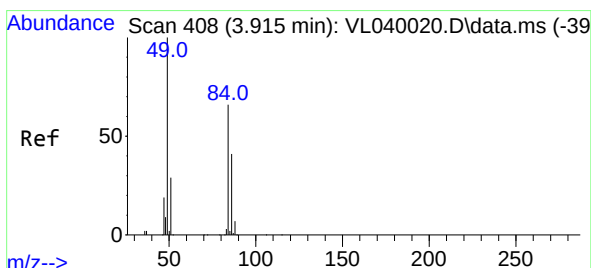
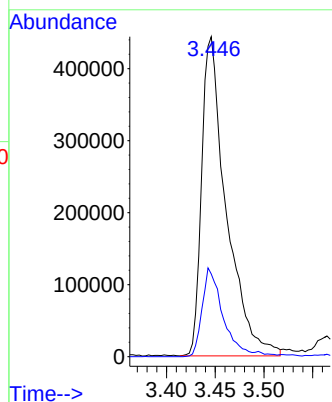
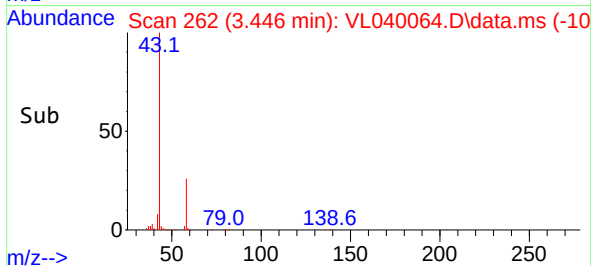
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 77957
Ion Ratio Lower Upper
43 100
58 24.3 21.8 32.8

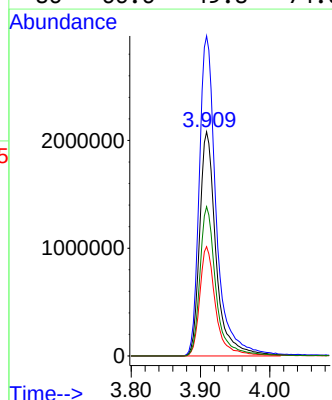
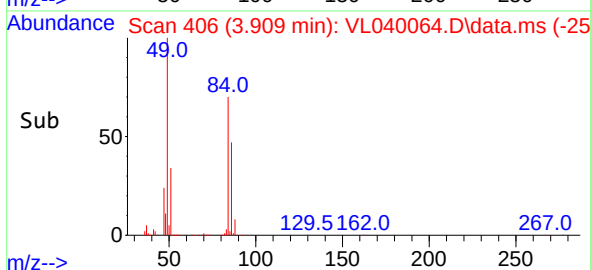
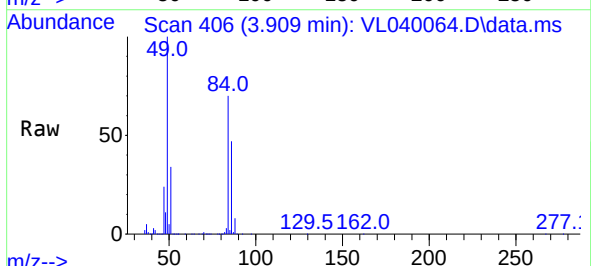
Manual Integrations
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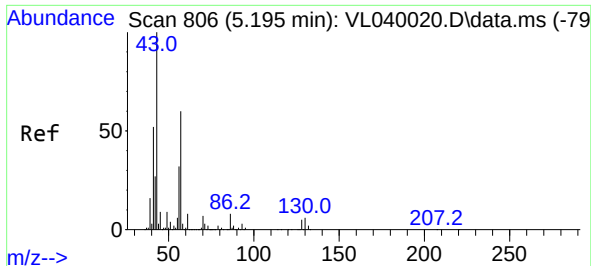
Reviewed By :Semsettin Yesilyurt 12/23/2022
Supervised By :Mahesh Dadoda 12/27/2022



#20
Methylene Chloride
Concen: 56.024 ppbv
RT: 3.909 min Scan# 406
Delta R.T. -0.006 min
Lab File: VL040064.D
Acq: 22 Dec 2022 12:29

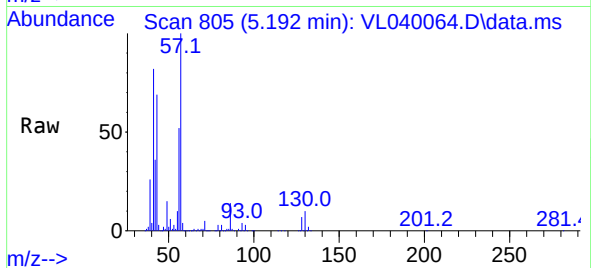
Tgt Ion: 84 Resp: 3436801
Ion Ratio Lower Upper
84 100
49 142.7 120.5 180.7
51 48.7 35.2 52.8
86 66.6 49.8 74.6





#26
Hexane
Concen: 9.926 ppbv
RT: 5.192 min Scan# 806
Delta R.T. -0.003 min
Lab File: VL040064.D
Acq: 22 Dec 2022 12:29

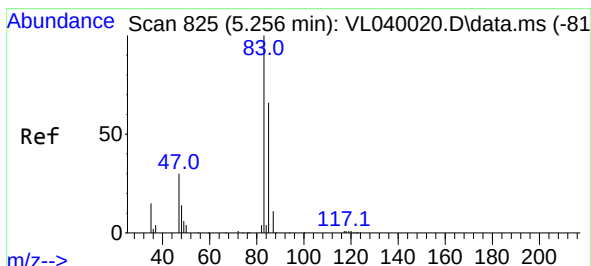
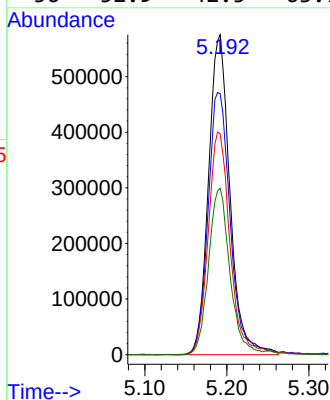
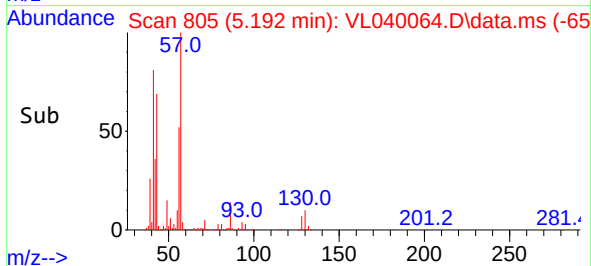
Instrument : MSVOA_L
ClientSampleId : IA1



Tgt Ion: 57 Resp: 1042729
Ion Ratio Lower Upper
57 100
41 86.1 72.1 108.1
43 71.8 192.1 288.1
56 52.9 42.5 63.7

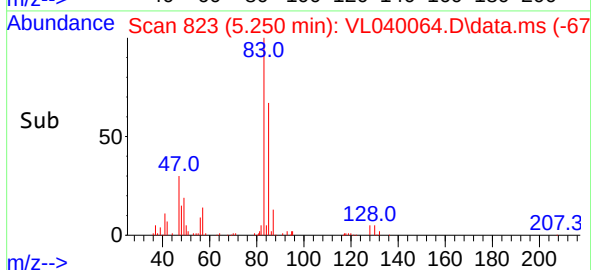
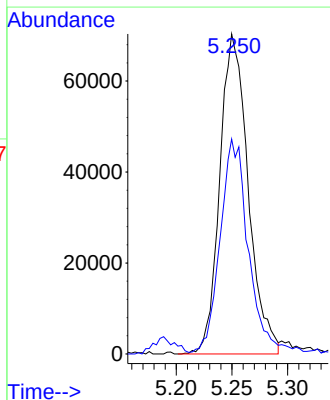
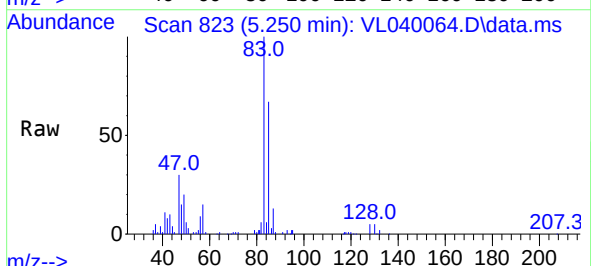
Manual Integrations
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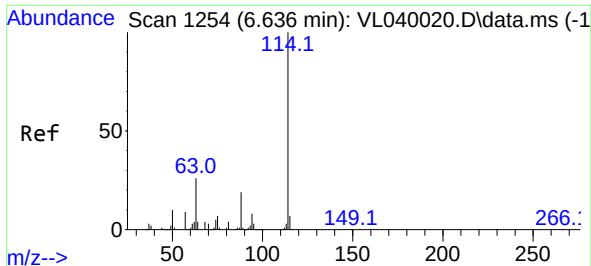
Reviewed By :Semsettin Yesilyurt 12/23/2022
Supervised By :Mahesh Dadoda 12/27/2022



#29
Chloroform
Concen: 0.777 ppbv
RT: 5.250 min Scan# 823
Delta R.T. -0.006 min
Lab File: VL040064.D
Acq: 22 Dec 2022 12:29

Tgt Ion: 83 Resp: 124519
Ion Ratio Lower Upper
83 100
85 64.7 52.4 78.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.632 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL040064.D

Acq: 22 Dec 2022 12:29

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion:114 Resp: 2534310

Ion Ratio Lower Upper

114 100

63 25.6 20.2 30.2

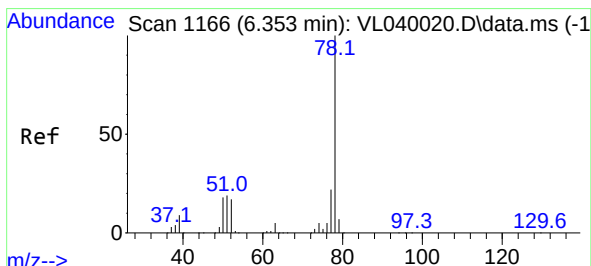
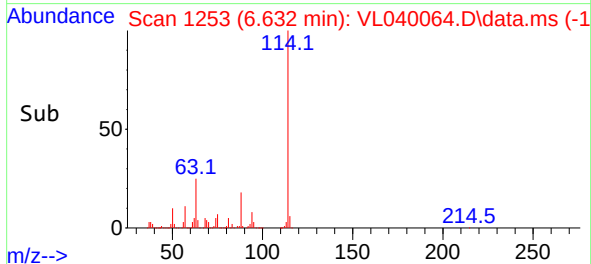
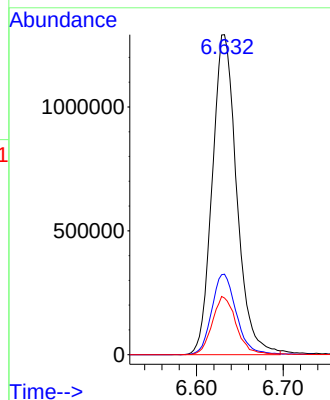
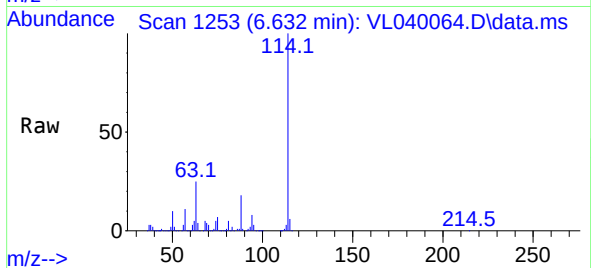
88 18.1 14.6 21.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2022

Supervised By :Mahesh Dadoda 12/27/2022



#36

Benzene

Concen: 0.590 ppbv

RT: 6.349 min Scan# 1165

Delta R.T. -0.003 min

Lab File: VL040064.D

Acq: 22 Dec 2022 12:29

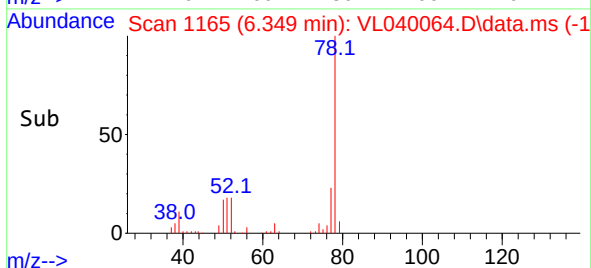
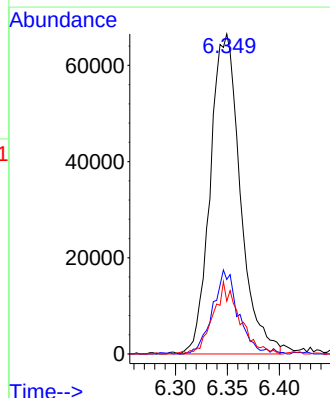
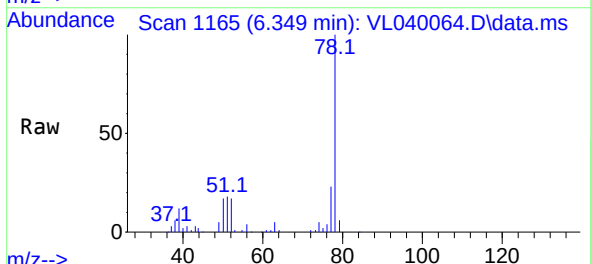
Tgt Ion: 78 Resp: 133619

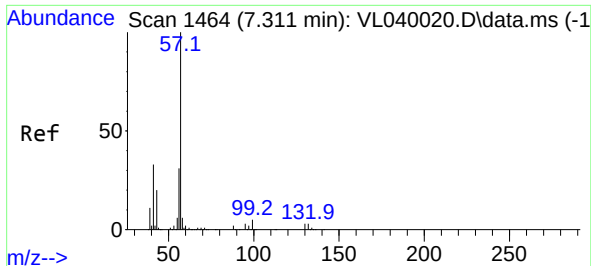
Ion Ratio Lower Upper

78 100

77 23.3 17.5 26.3

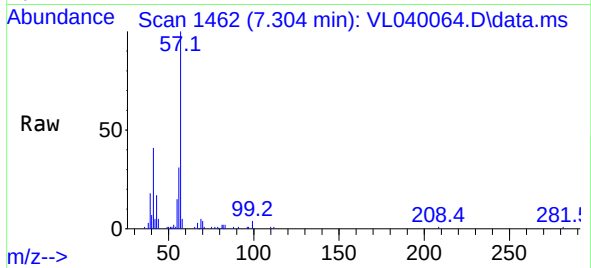
50 16.5 14.2 21.2





#44
2,2,4-Trimethylpentane
Concen: 0.189 ppbv
RT: 7.304 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VL040064.D
Acq: 22 Dec 2022 12:29

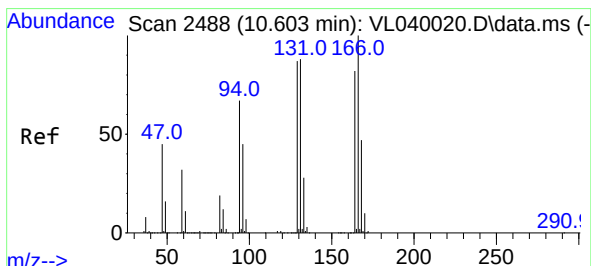
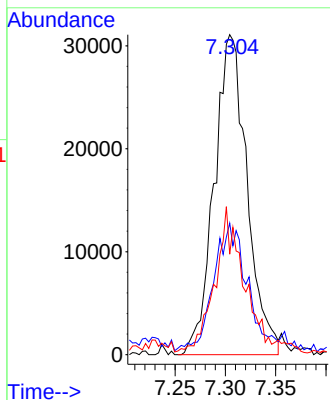
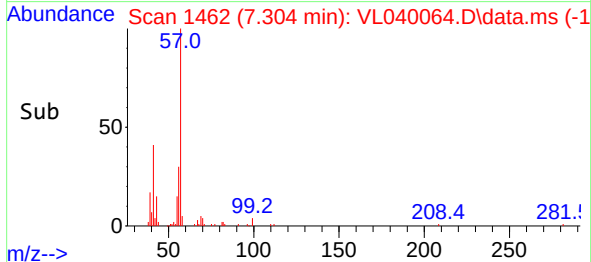
Instrument :
MSVOA_L
ClientSampleId :
IA1



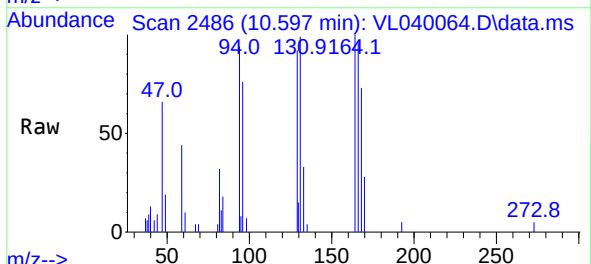
Tgt Ion: 57 Resp: 7051
Ion Ratio Lower Upper
57 100
41 47.5 26.2 39.4
56 44.2 25.1 37.7

Manual Integrations
APPROVED

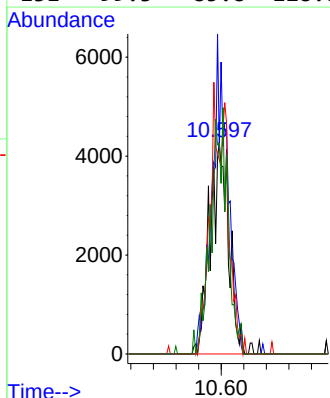
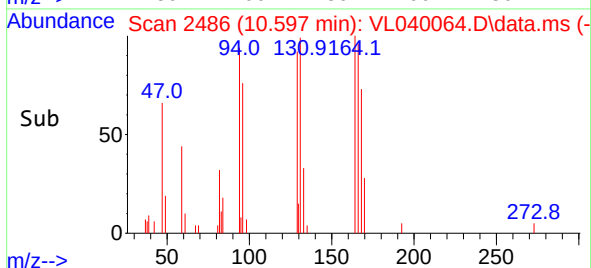
Reviewed By :Semsettin Yesilyurt 12/23/2022
Supervised By :Mahesh Dadoda 12/27/2022

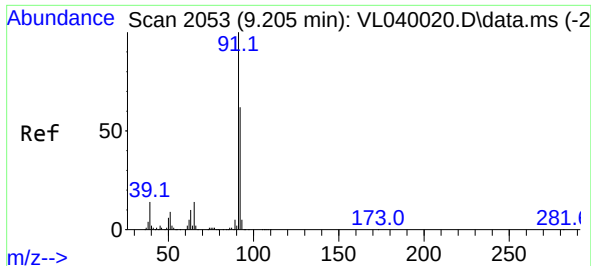


#52
Tetrachloroethene
Concen: 0.131 ppbv m
RT: 10.597 min Scan# 2486
Delta R.T. -0.006 min
Lab File: VL040064.D
Acq: 22 Dec 2022 12:29



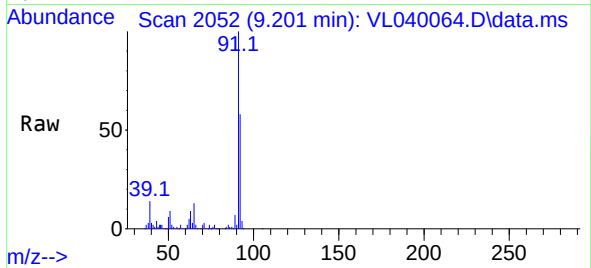
Tgt Ion:164 Resp: 10102
Ion Ratio Lower Upper
164 100
166 96.3 97.4 146.0
129 91.7 84.3 126.5
131 99.3 85.8 128.8





#53
Toluene
Concen: 0.907 ppbv
RT: 9.201 min Scan# 2052
Delta R.T. -0.003 min
Lab File: VL040064.D
Acq: 22 Dec 2022 12:29

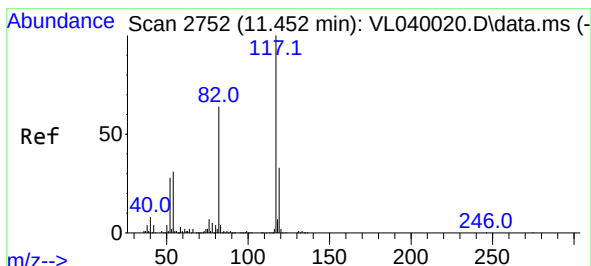
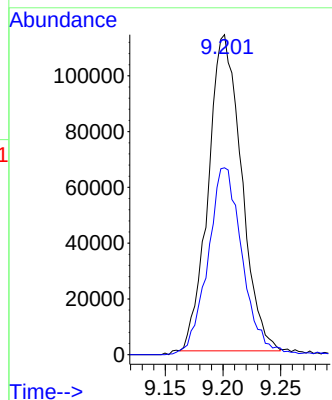
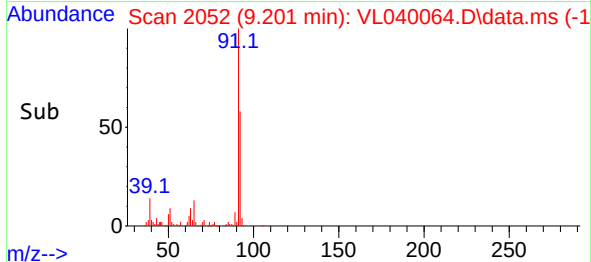
Instrument :
MSVOA_L
ClientSampleId :
IA1



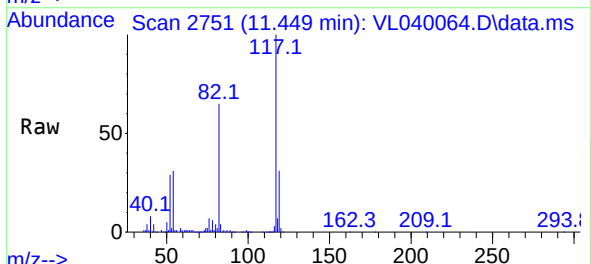
Tgt Ion: 91 Resp: 227170
Ion Ratio Lower Upper
91 100
92 61.9 48.7 73.1

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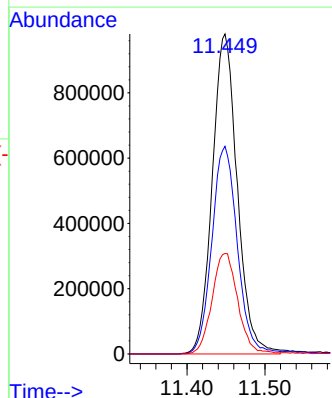
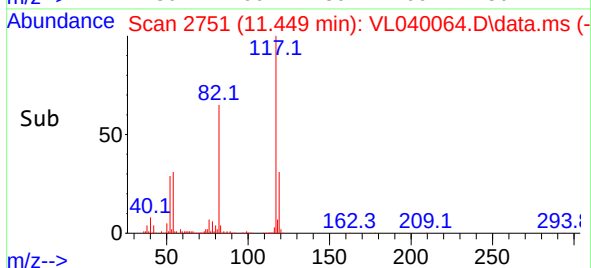
Reviewed By :Semsettin Yesilyurt 12/23/2022
Supervised By :Mahesh Dadoda 12/27/2022

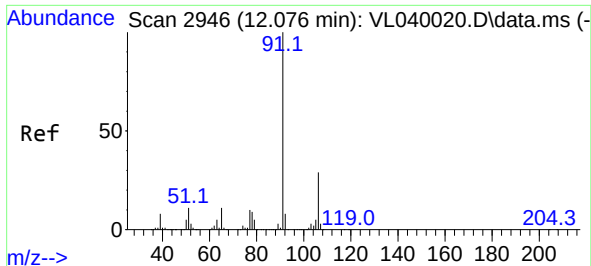


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.449 min Scan# 2751
Delta R.T. -0.003 min
Lab File: VL040064.D
Acq: 22 Dec 2022 12:29



Tgt Ion:117 Resp: 2183708
Ion Ratio Lower Upper
117 100
82 67.2 51.2 76.8
119 32.9 23.2 34.8





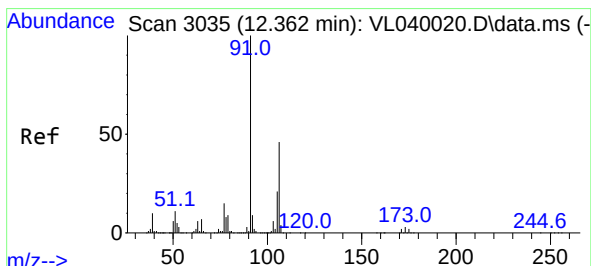
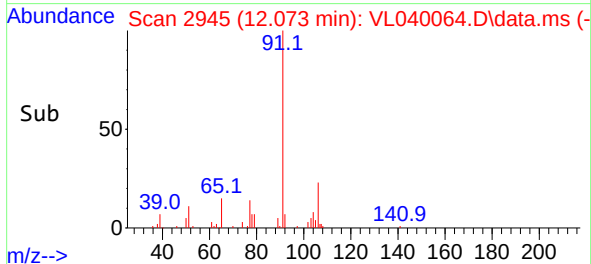
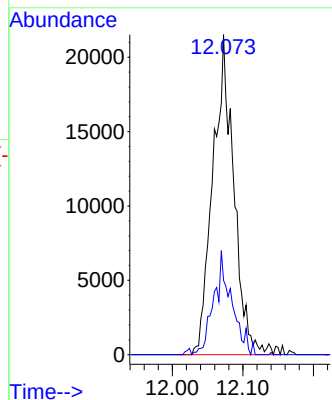
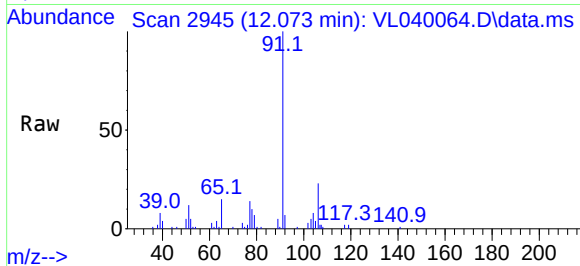
#58
Ethyl Benzene
Concen: 0.144 ppbv m
RT: 12.073 min Scan# 2946
Delta R.T. -0.003 min
Lab File: VL040064.D
Acq: 22 Dec 2022 12:29

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 44539
Ion Ratio Lower Upper
91 100
106 23.2 23.5 35.3

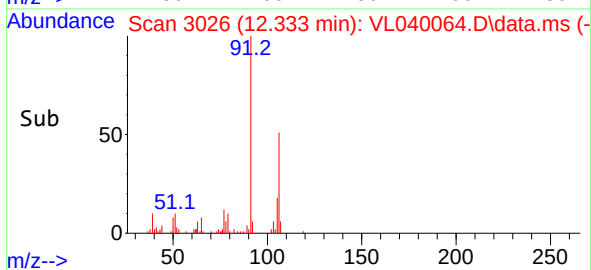
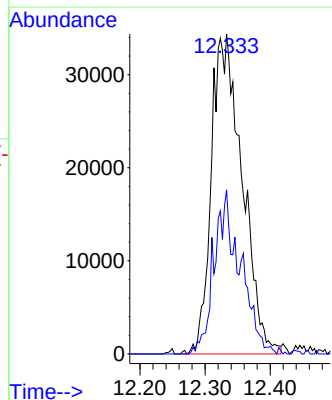
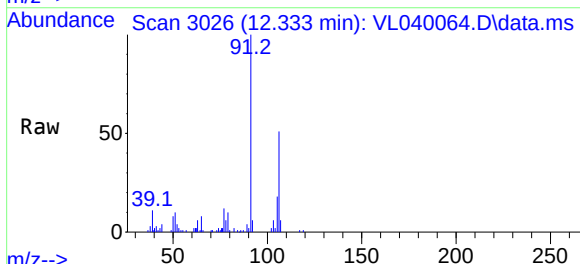
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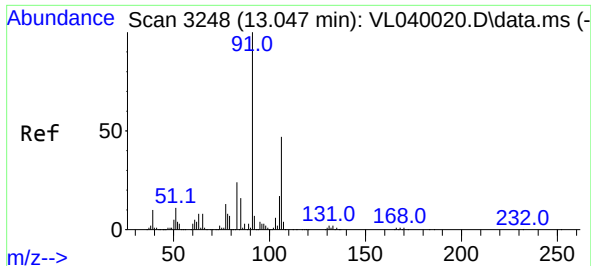
Reviewed By :Semsettin Yesilyurt 12/23/2022
Supervised By :Mahesh Dadoda 12/27/2022



#59
m/p-Xylene
Concen: 0.418 ppbv m
RT: 12.333 min Scan# 3026
Delta R.T. -0.029 min
Lab File: VL040064.D
Acq: 22 Dec 2022 12:29

Tgt Ion: 91 Resp: 113054
Ion Ratio Lower Upper
91 100
106 0.0 35.5 53.3





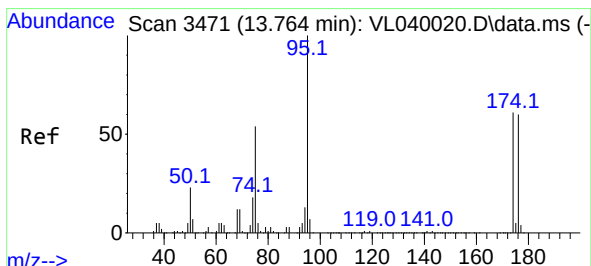
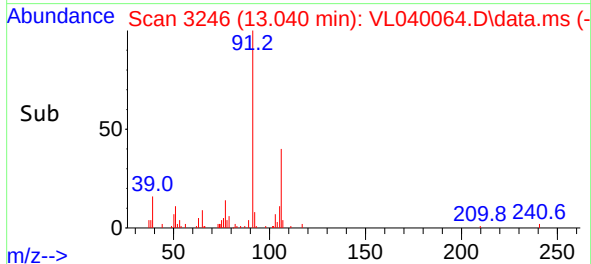
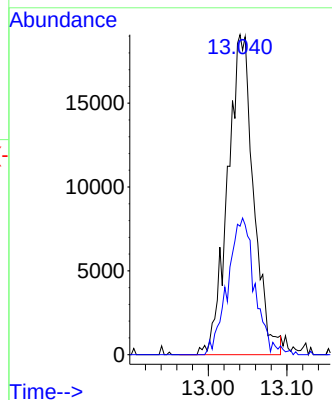
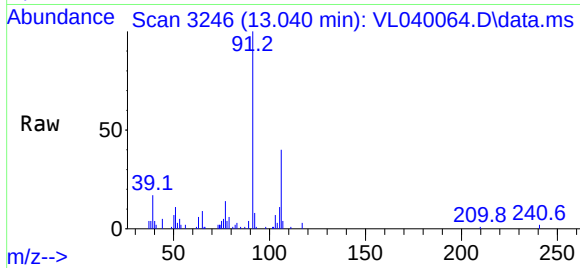
#60
o-Xylene
Concen: 0.169 ppbv m
RT: 13.040 min Scan# 31
Delta R.T. -0.006 min
Lab File: VL040064.D
Acq: 22 Dec 2022 12:29

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 43694
Ion Ratio Lower Upper
91 100
106 44.8 22.4 67.0

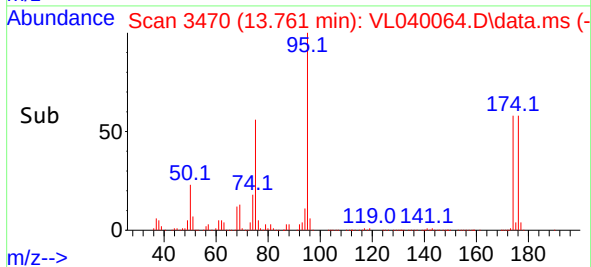
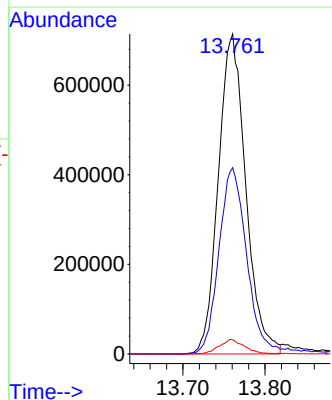
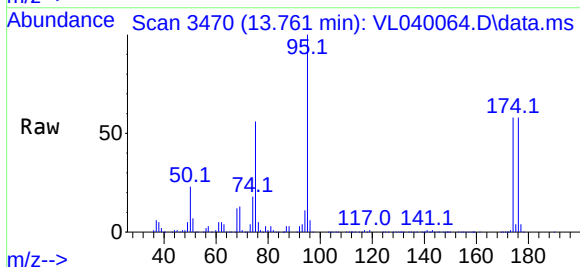
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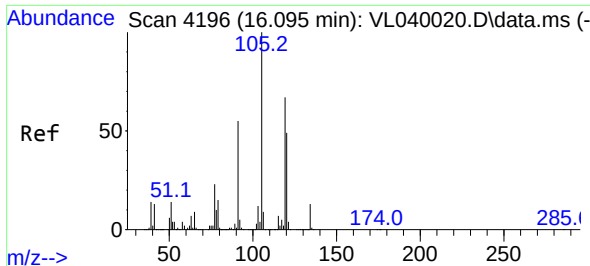
Reviewed By :Semsettin Yesilyurt 12/23/2022
Supervised By :Mahesh Dadoda 12/27/2022



#68
1-Bromo-4-Fluorobenzene
Concen: 9.949 ppbv
RT: 13.761 min Scan# 3470
Delta R.T. -0.003 min
Lab File: VL040064.D
Acq: 22 Dec 2022 12:29

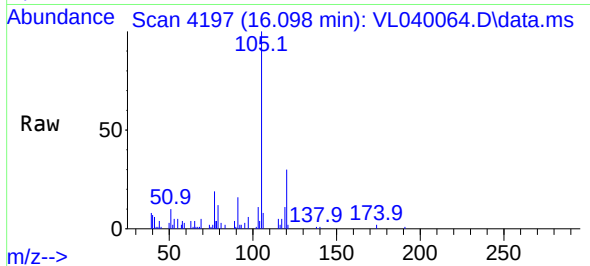
Tgt Ion: 95 Resp: 1659533
Ion Ratio Lower Upper
95 100
174 61.1 48.6 73.0
175 4.3 3.4 5.2





#74
1,2,4-Trimethylbenzene
Concen: 0.152 ppbv m
RT: 16.098 min Scan# 4196
Delta R.T. 0.003 min
Lab File: VL040064.D
Acq: 22 Dec 2022 12:29

Instrument :
MSVOA_L
ClientSampleId :
IA1

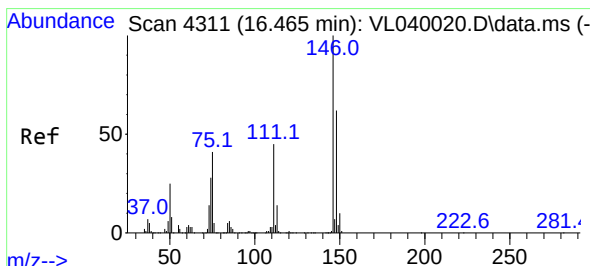
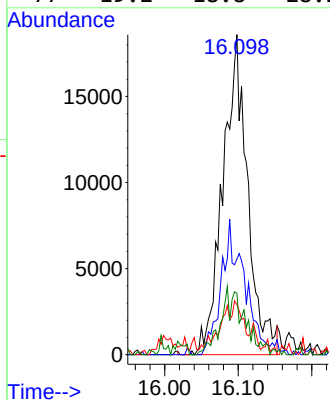
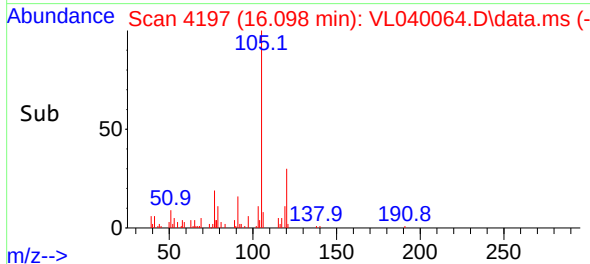


Tgt Ion:105 Resp: 4333

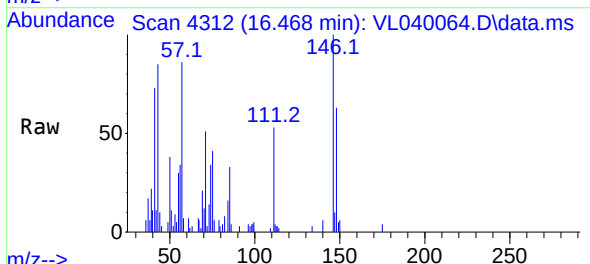
Ion	Ratio	Lower	Upper
105	100		
120	29.9	39.3	58.9
91	15.6	44.2	66.4
77	19.2	18.8	28.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2022
Supervised By :Mahesh Dadoda 12/27/2022



#76
1,4-Dichlorobenzene
Concen: 0.107 ppbv
RT: 16.468 min Scan# 4312
Delta R.T. 0.003 min
Lab File: VL040064.D
Acq: 22 Dec 2022 12:29



Tgt Ion:146 Resp: 16289

Ion	Ratio	Lower	Upper
146	100		
111	55.1	23.4	70.2
148	73.3	32.0	96.2

