

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121222\
 Data File : VL039974.D
 Acq On : 12 Dec 2022 13:49
 Operator : SY/MD
 Sample : N5969-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/14/2022
 Supervised By :Mahesh Dadoda 12/14/2022

Quant Time: Dec 13 06:09:40 2022

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111822AIR.M

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

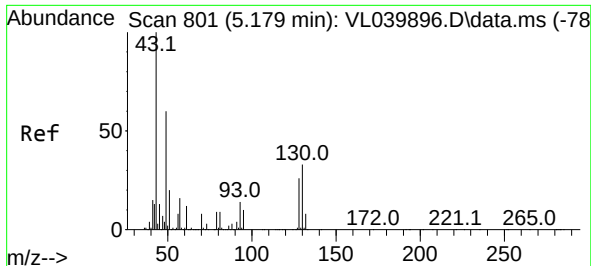
QLast Update : Fri Dec 02 23:21:36 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.173	49	1152095	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.636	114	3068510	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.455	117	2803648	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	2353248	10.989	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	109.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.710	85	77964	0.473	ppbv	98
3) Chlorodifluoromethane	2.655	51	52031	0.327	ppbv	100
4) Chloromethane	2.793	50	44948	0.442	ppbv	93
11) Trichlorofluoromethane	3.542	101	109332	0.543	ppbv	98
13) Ethanol	3.218	45	2293740	401.180	ppbv	100
15) Acetone	3.449	43	1090074	7.133	ppbv	96
19) Isopropyl Alcohol	3.562	45	714205	8.632	ppbv #	31
20) Methylene Chloride	3.915	84	1749677	23.633	ppbv	95
26) Hexane	5.198	57	1359215	11.090	ppbv #	41
29) Chloroform	5.256	83	30859m	0.189	ppbv	
30) Cyclohexane	6.584	84	12810m	0.107	ppbv	
35) Carbon Tetrachloride	6.484	117	14780m	0.085	ppbv	
36) Benzene	6.356	78	81966	0.314	ppbv #	92
44) 2,2,4-Trimethylpentane	7.314	57	254090	0.584	ppbv #	91
52) Tetrachloroethene	10.603	164	15816m	0.162	ppbv	
53) Toluene	9.208	91	290893	0.979	ppbv	96
58) Ethyl Benzene	12.073	91	52726m	0.139	ppbv	
59) m/p-Xylene	12.330	91	160093m	0.503	ppbv	
60) o-Xylene	13.053	91	56423m	0.186	ppbv	
79) Naphthalene	21.378	128	77431m	0.391	ppbv	

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



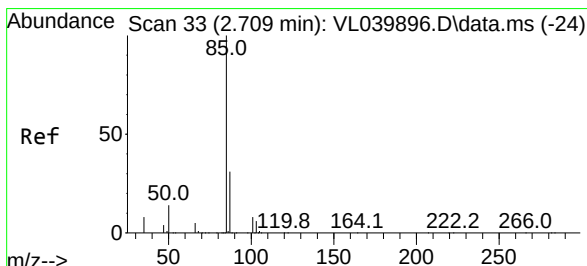
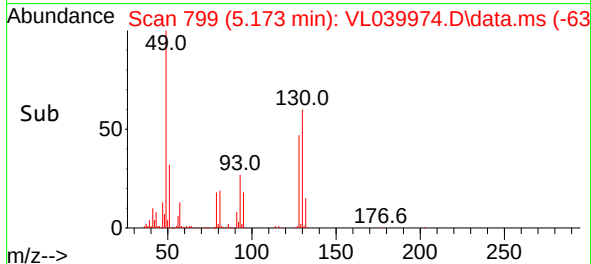
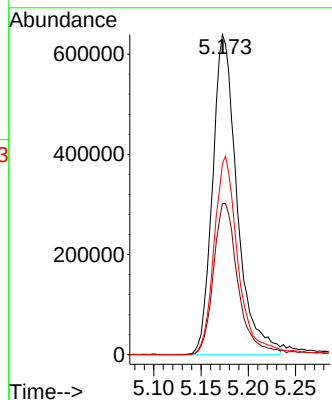
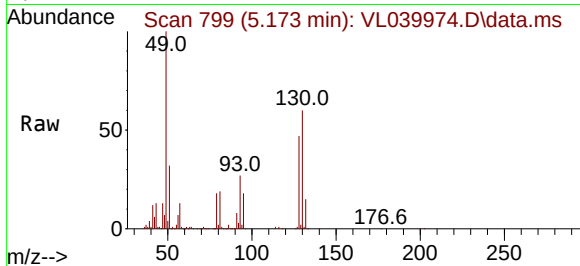
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.173 min Scan# 79
Delta R.T. 0.017 min
Lab File: VL039974.D
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Tgt Ion: 49 Resp: 115209
Ion Ratio Lower Upper
49 100
128 49.0 22.1 66.3
130 61.9 27.7 83.1

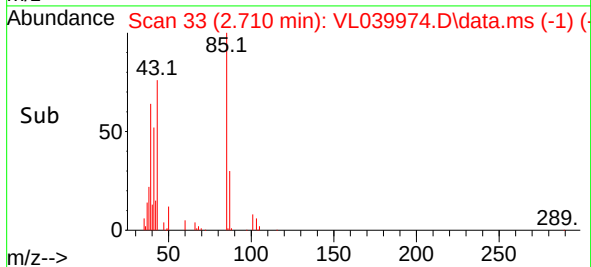
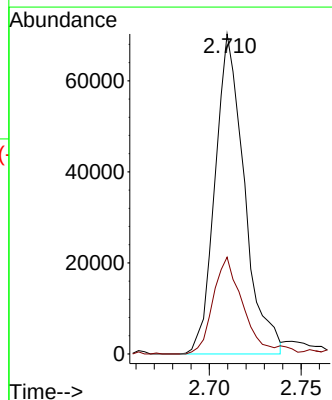
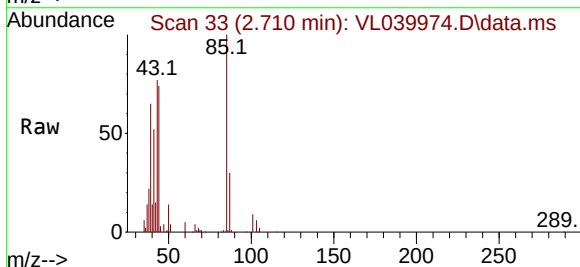
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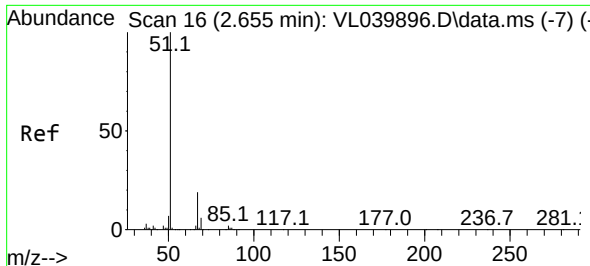
Reviewed By :Semsettin Yesilyurt 12/14/2022
Supervised By :Mahesh Dadoda 12/14/2022



#2
Dichlorodifluoromethane
Concen: 0.473 ppbv
RT: 2.710 min Scan# 33
Delta R.T. 0.013 min
Lab File: VL039974.D
Acq: 12 Dec 2022 13:49

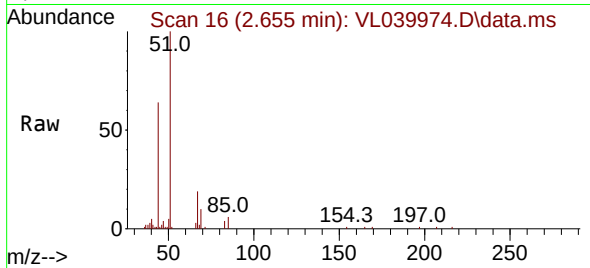
Tgt Ion: 85 Resp: 77964
Ion Ratio Lower Upper
85 100
87 30.2 25.0 37.4





#3
Chlorodifluoromethane
Concen: 0.327 ppbv
RT: 2.655 min Scan# 16
Delta R.T. 0.013 min
Lab File: VL039974.D
Acq: 12 Dec 2022 13:49

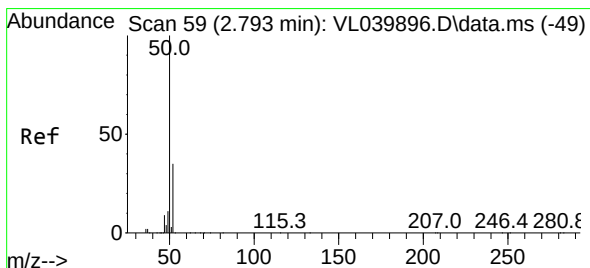
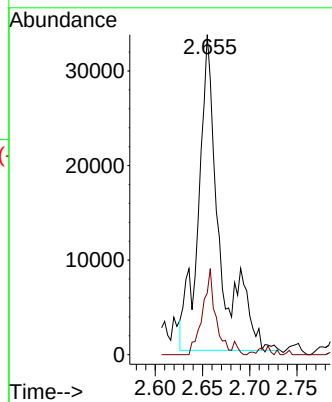
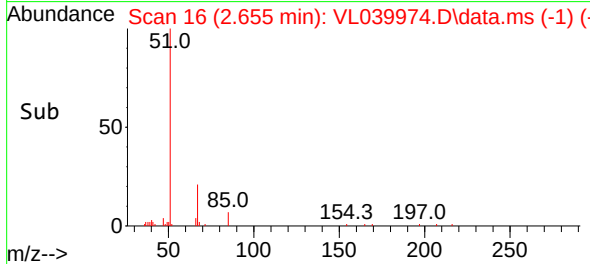
Instrument :
MSVOA_L
ClientSampleId :
IA-2



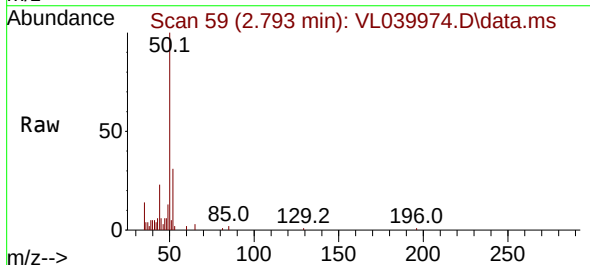
Tgt Ion: 51 Resp: 5203
Ion Ratio Lower Upper
51 100
67 17.8 14.2 21.4

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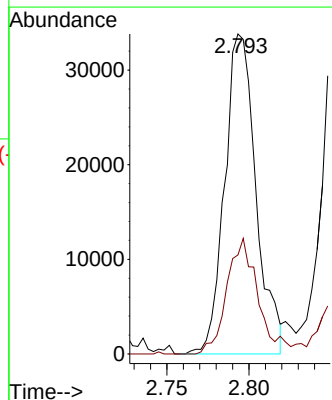
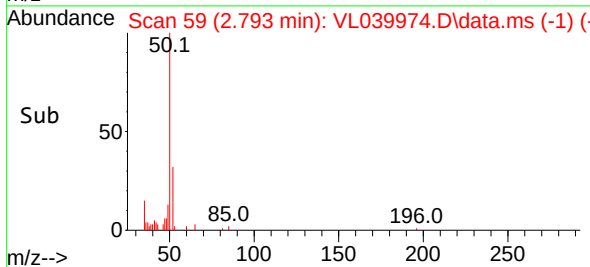
Reviewed By :Semsettin Yesilyurt 12/14/2022
Supervised By :Mahesh Dadoda 12/14/2022

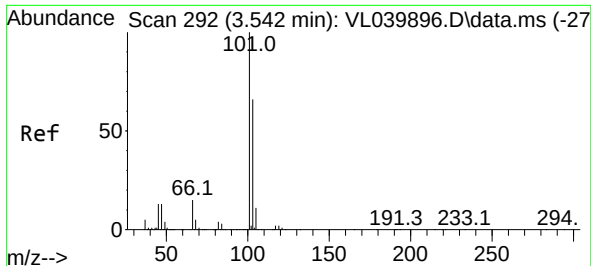


#4
Chloromethane
Concen: 0.442 ppbv
RT: 2.793 min Scan# 59
Delta R.T. 0.013 min
Lab File: VL039974.D
Acq: 12 Dec 2022 13:49



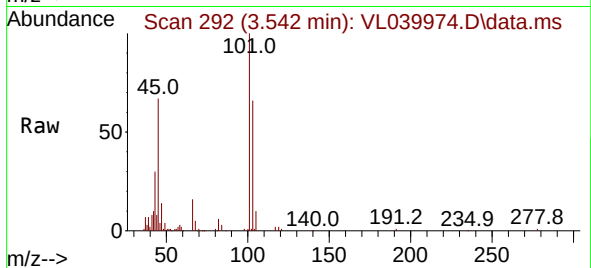
Tgt Ion: 50 Resp: 44948
Ion Ratio Lower Upper
50 100
52 30.9 27.8 41.8





#11
 Trichlorofluoromethane
 Concen: 0.543 ppbv
 RT: 3.542 min Scan# 292
 Delta R.T. 0.013 min
 Lab File: VL039974.D
 Acq: 12 Dec 2022 13:49

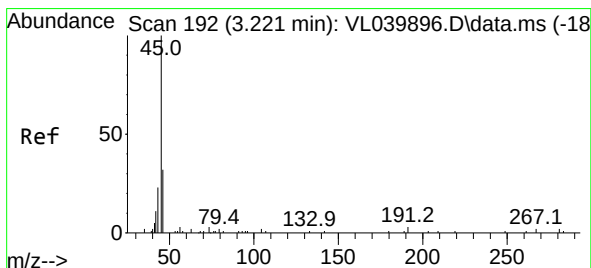
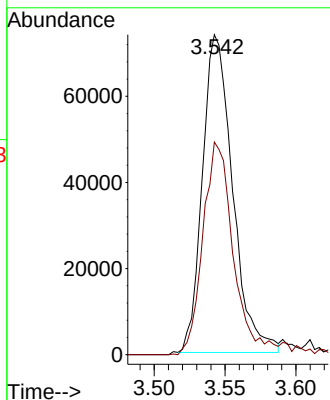
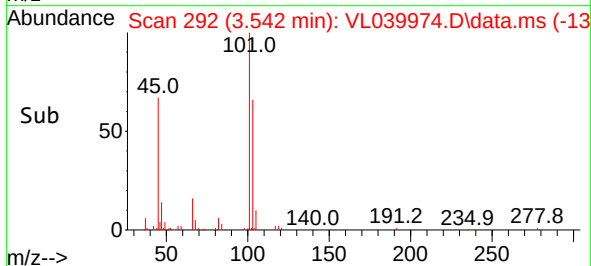
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2



Tgt Ion:101 Resp: 109333
 Ion Ratio Lower Upper
 101 100
 103 66.9 52.6 78.8

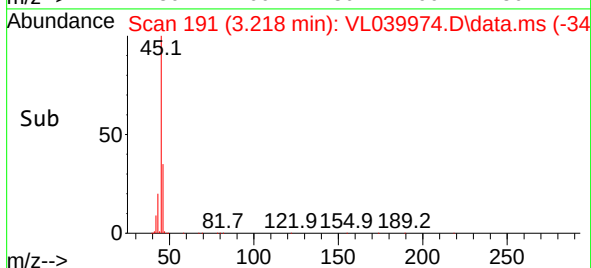
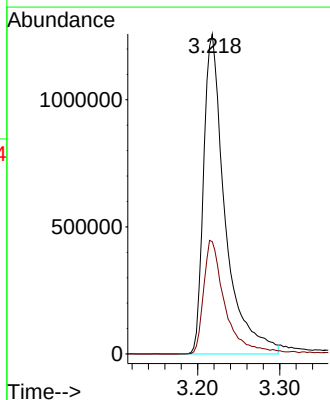
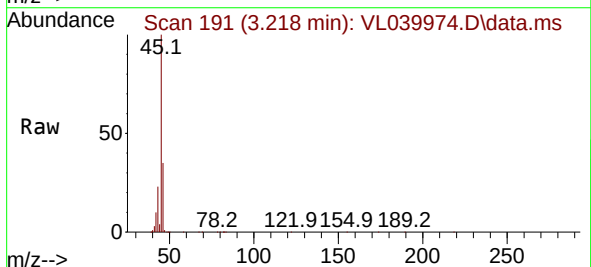
Manual Integrations
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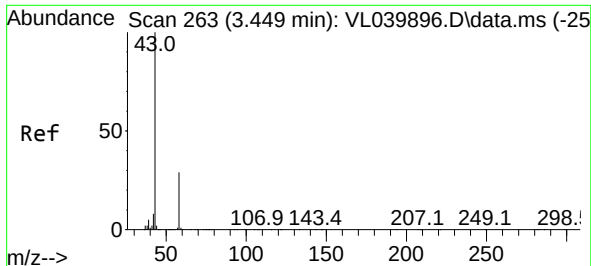
Reviewed By :Semsettin Yesilyurt 12/14/2022
 Supervised By :Mahesh Dadoda 12/14/2022



#13
 Ethanol
 Concen: 401.180 ppbv
 RT: 3.218 min Scan# 191
 Delta R.T. 0.003 min
 Lab File: VL039974.D
 Acq: 12 Dec 2022 13:49

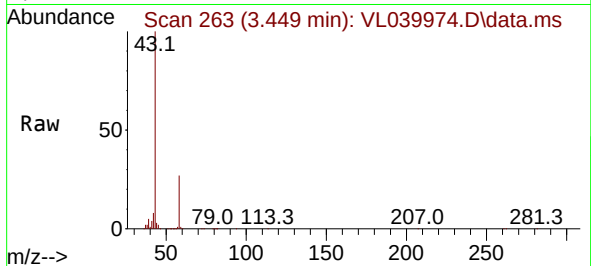
Tgt Ion: 45 Resp: 2293740
 Ion Ratio Lower Upper
 45 100
 46 36.6 14.6 58.2





#15
Acetone
Concen: 7.133 ppbv
RT: 3.449 min Scan# 20
Delta R.T. 0.016 min
Lab File: VL039974.D
Acq: 12 Dec 2022 13:49

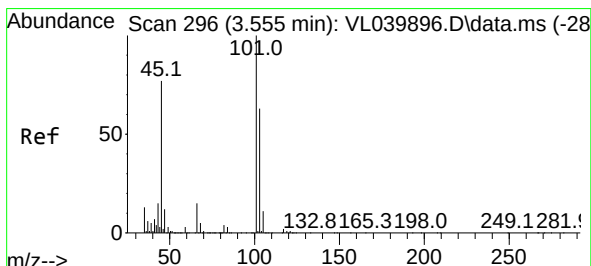
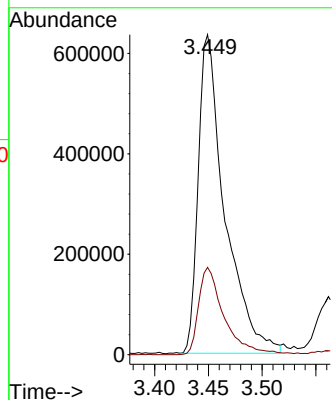
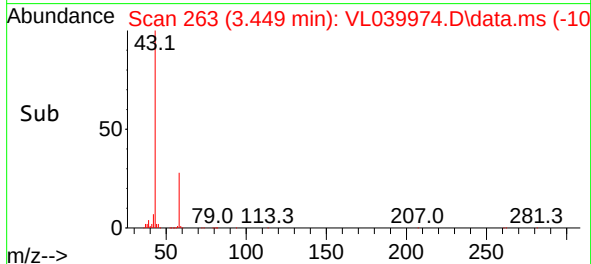
Instrument :
MSVOA_L
ClientSampleId :
IA-2



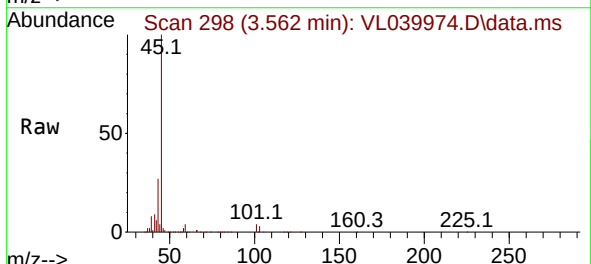
Tgt Ion: 43 Resp: 1090074
Ion Ratio Lower Upper
43 100
58 26.3 22.9 34.3

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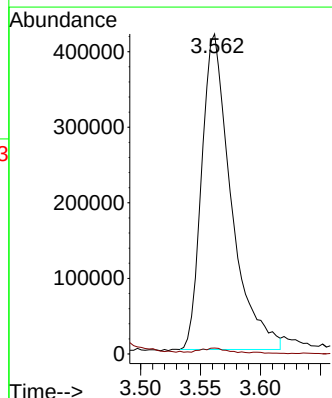
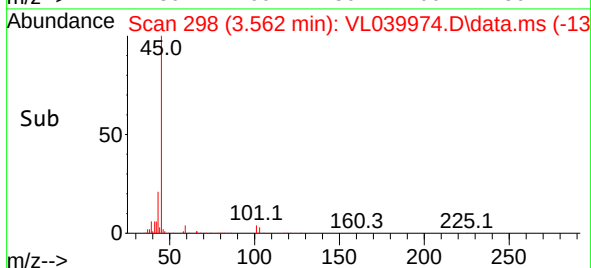
Reviewed By :Semsettin Yesilyurt 12/14/2022
Supervised By :Mahesh Dadoda 12/14/2022

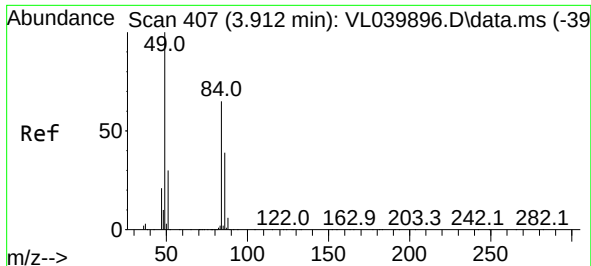


#19
Isopropyl Alcohol
Concen: 8.632 ppbv
RT: 3.562 min Scan# 298
Delta R.T. 0.020 min
Lab File: VL039974.D
Acq: 12 Dec 2022 13:49



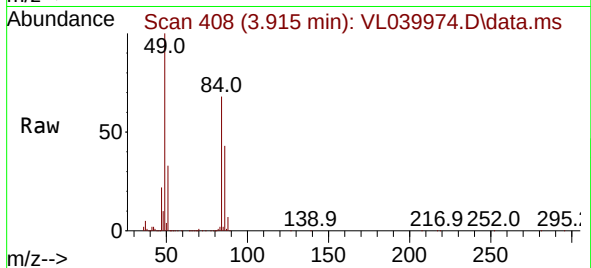
Tgt Ion: 45 Resp: 714205
Ion Ratio Lower Upper
45 100
58 1.9 38.7 58.1#





#20
Methylene Chloride
Concen: 23.633 ppbv
RT: 3.915 min Scan# 407
Delta R.T. 0.020 min
Lab File: VL039974.D
Acq: 12 Dec 2022 13:49

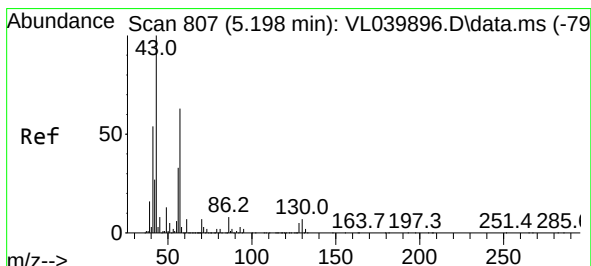
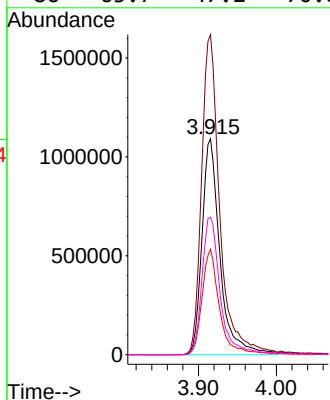
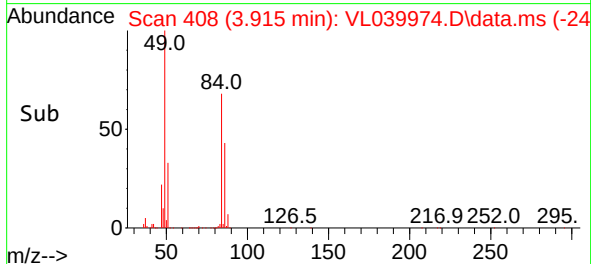
Instrument :
MSVOA_L
ClientSampleId :
IA-2



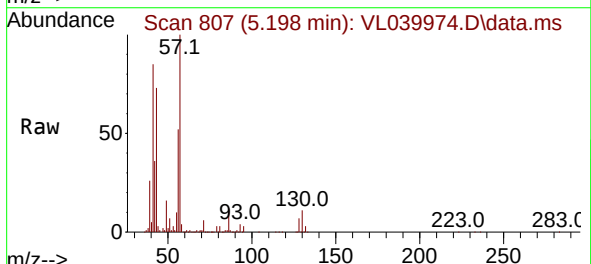
Tgt Ion: 84 Resp: 174967
Ion Ratio Lower Upper
84 100
49 148.1 122.2 183.4
51 48.8 36.3 54.5
86 63.7 47.2 70.8

Manual Integrations
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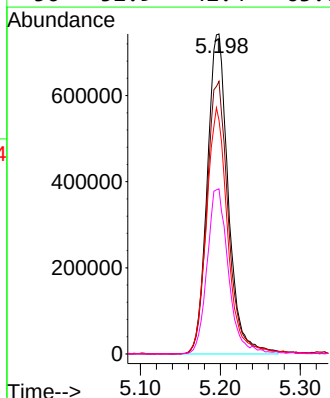
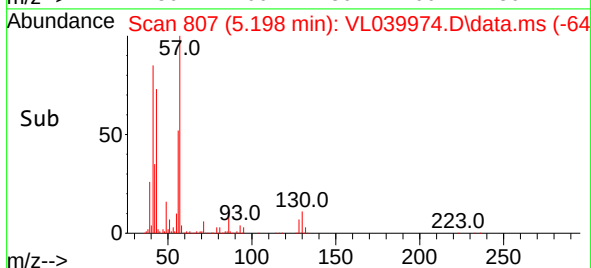
Reviewed By :Semsettin Yesilyurt 12/14/2022
Supervised By :Mahesh Dadoda 12/14/2022

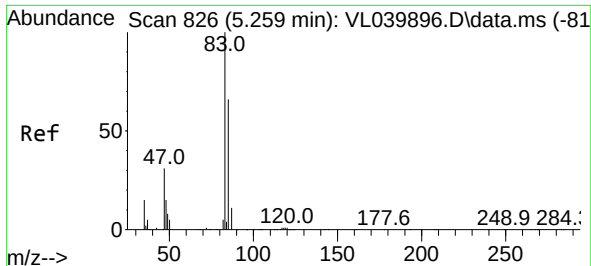


#26
Hexane
Concen: 11.090 ppbv
RT: 5.198 min Scan# 807
Delta R.T. 0.023 min
Lab File: VL039974.D
Acq: 12 Dec 2022 13:49



Tgt Ion: 57 Resp: 1359215
Ion Ratio Lower Upper
57 100
41 87.3 72.3 108.5
43 77.9 188.7 283.1#
56 52.9 42.4 63.6





#29

Chloroform

Concen: 0.189 ppbv m

RT: 5.256 min Scan# 81

Delta R.T. 0.020 min

Lab File: VL039974.D

Acq: 12 Dec 2022 13:49

Instrument :

MSVOA_L

ClientSampleId :

IA-2

Tgt Ion: 83 Resp: 3085

Ion Ratio Lower Upper

83 100

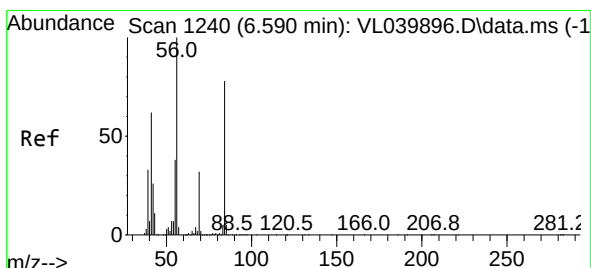
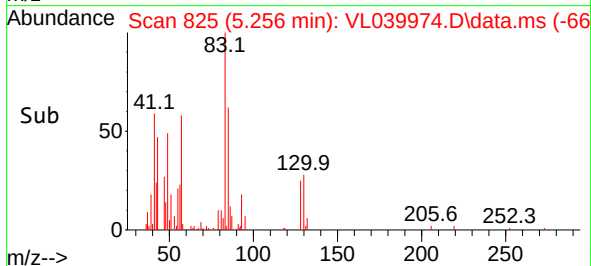
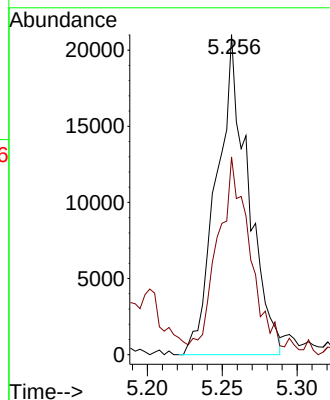
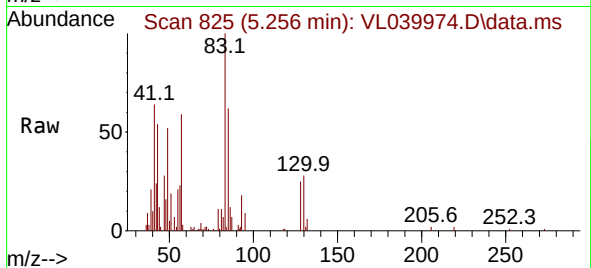
85 61.8 52.4 78.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/14/2022

Supervised By :Mahesh Dadoda 12/14/2022



#30

Cyclohexane

Concen: 0.107 ppbv m

RT: 6.584 min Scan# 1238

Delta R.T. 0.020 min

Lab File: VL039974.D

Acq: 12 Dec 2022 13:49

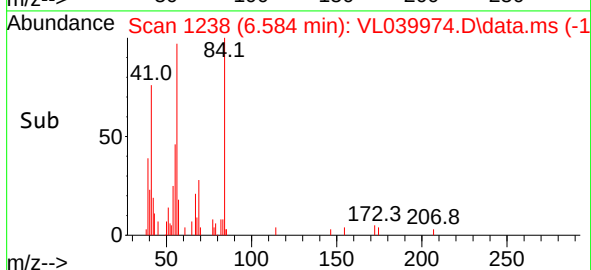
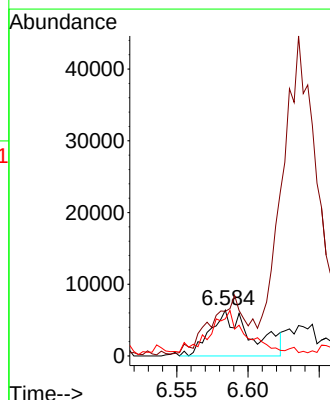
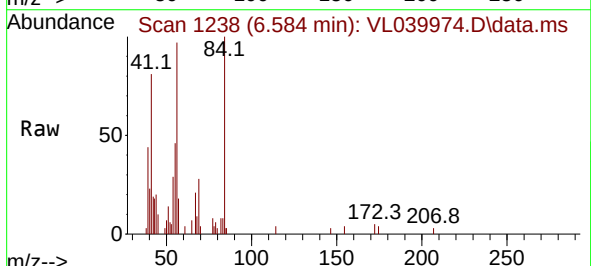
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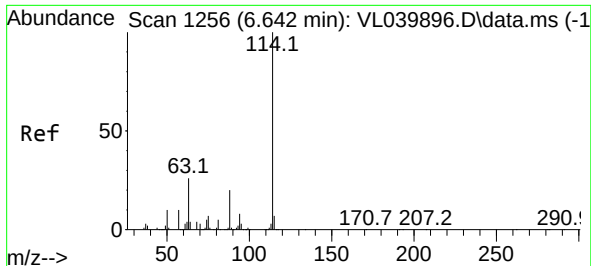
Ion Ratio Lower Upper

84 100

56 0.0 112.5 168.7#

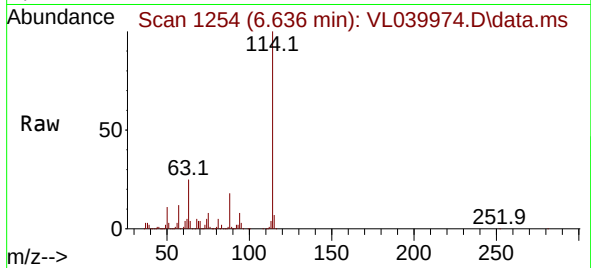
41 0.0 67.8 101.8#





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.636 min Scan# 11
Delta R.T. 0.016 min
Lab File: VL039974.D
Acq: 12 Dec 2022 13:49

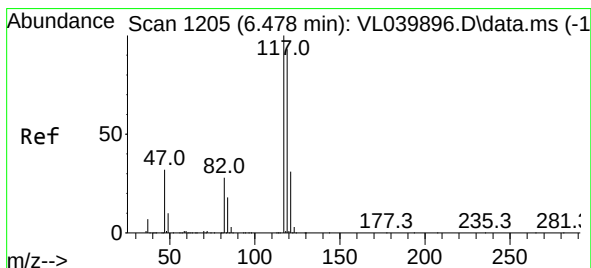
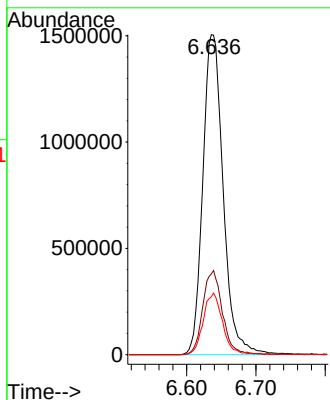
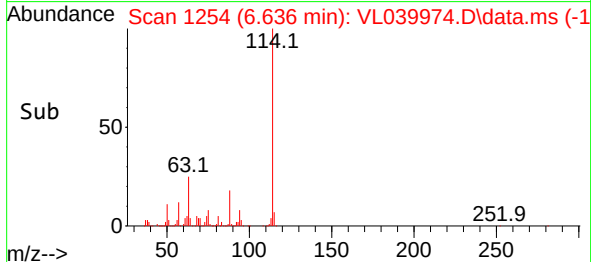
Instrument :
MSVOA_L
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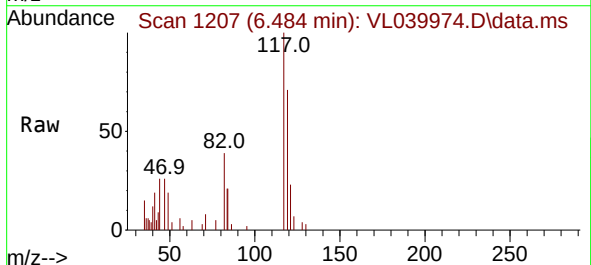
Tgt Ion:114 Resp: 3068510
Ion Ratio Lower Upper
114 100
63 25.5 21.4 32.0
88 18.5 15.3 22.9

Manual Integrations
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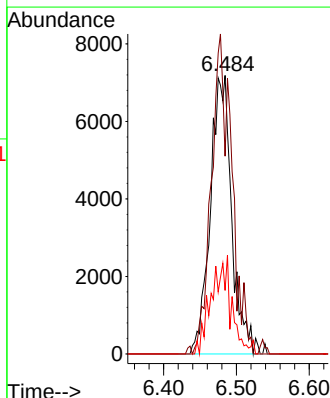
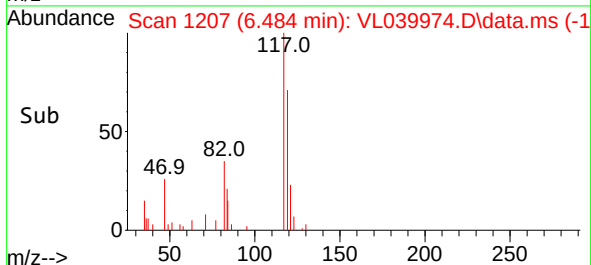
Reviewed By :Semsettin Yesilyurt 12/14/2022
Supervised By :Mahesh Dadoda 12/14/2022

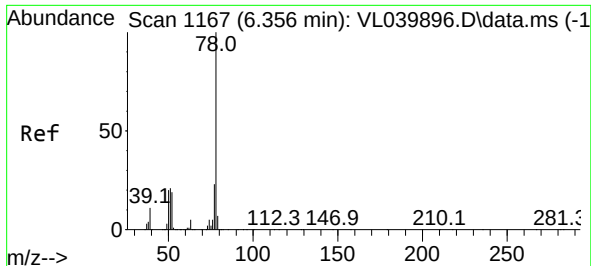


#35
Carbon Tetrachloride
Concen: 0.085 ppbv m
RT: 6.484 min Scan# 1207
Delta R.T. 0.029 min
Lab File: VL039974.D
Acq: 12 Dec 2022 13:49



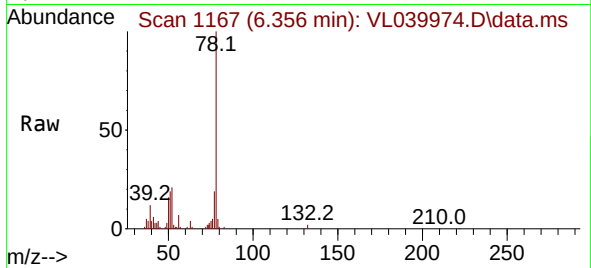
Tgt Ion:117 Resp: 14780
Ion Ratio Lower Upper
117 100
119 71.0 74.7 112.1#
121 22.8 24.5 36.7#





#36
Benzene
Concen: 0.314 ppbv
RT: 6.356 min Scan# 1167
Delta R.T. 0.023 min
Lab File: VL039974.D
Acq: 12 Dec 2022 13:49

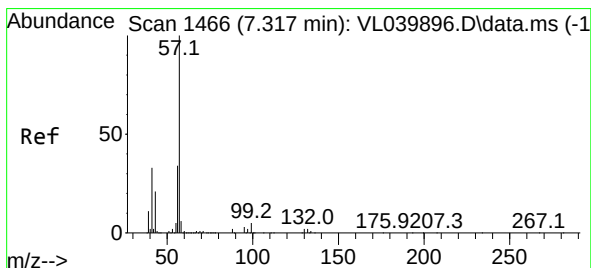
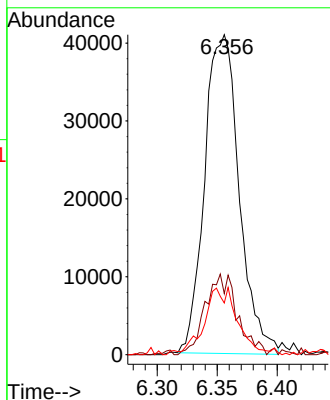
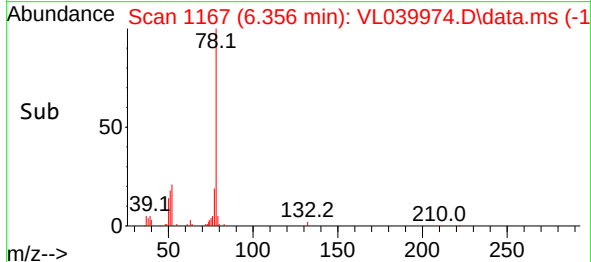
Instrument :
MSVOA_L
ClientSampleId :
IA-2



Tgt Ion: 78 Resp: 81960
Ion Ratio Lower Upper
78 100
77 19.2 18.2 27.2
50 15.5 15.8 23.8

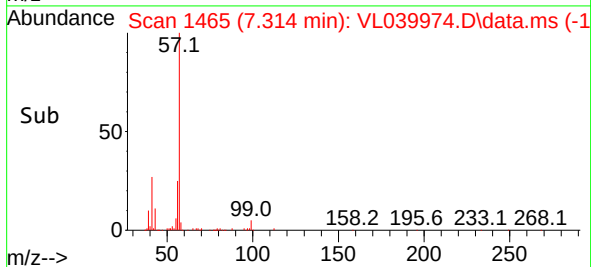
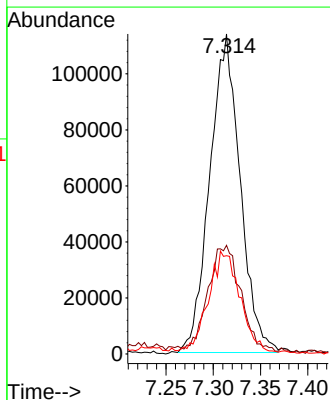
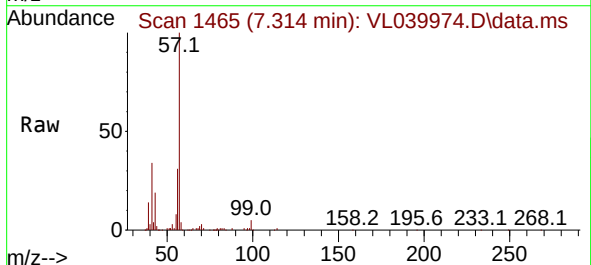
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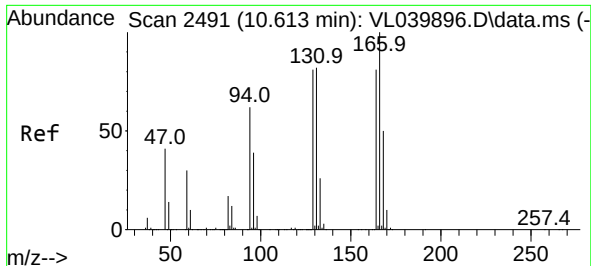
Reviewed By :Semsettin Yesilyurt 12/14/2022
Supervised By :Mahesh Dadoda 12/14/2022



#44
2,2,4-Trimethylpentane
Concen: 0.584 ppbv
RT: 7.314 min Scan# 1465
Delta R.T. 0.023 min
Lab File: VL039974.D
Acq: 12 Dec 2022 13:49

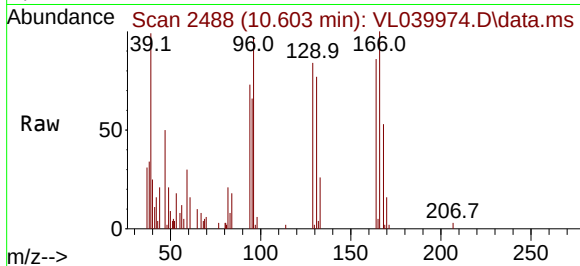
Tgt Ion: 57 Resp: 254090
Ion Ratio Lower Upper
57 100
41 39.6 26.2 39.2
56 35.2 25.5 38.3





#52
Tetrachloroethene
Concen: 0.162 ppbv m
RT: 10.603 min Scan# 2491
Delta R.T. 0.023 min
Lab File: VL039974.D
Acq: 12 Dec 2022 13:49

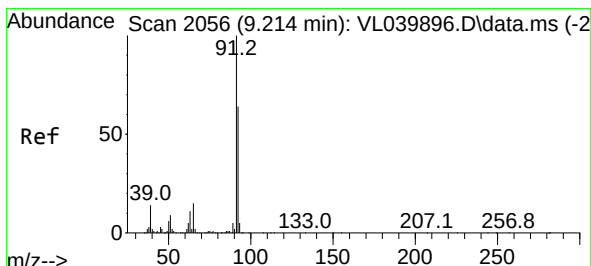
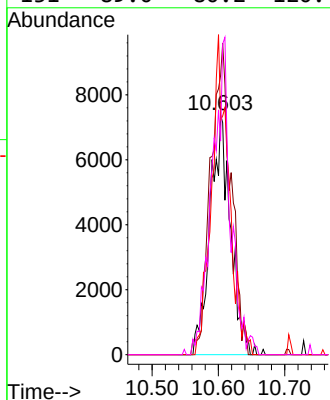
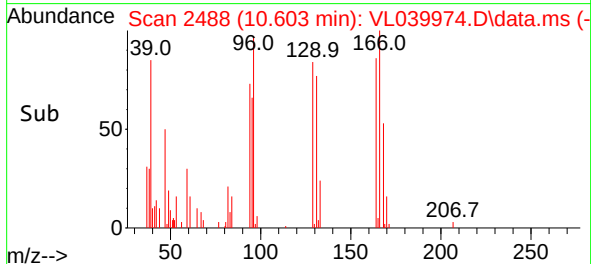
Instrument :
MSVOA_L
ClientSampleId :
IA-2



Tgt Ion:164 Resp: 15810
Ion Ratio Lower Upper
164 100
166 116.3 98.3 147.5
129 97.8 79.7 119.5
131 89.0 80.2 120.4

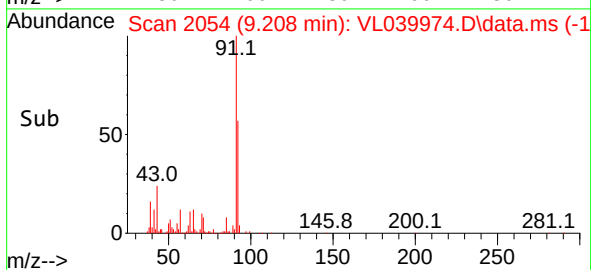
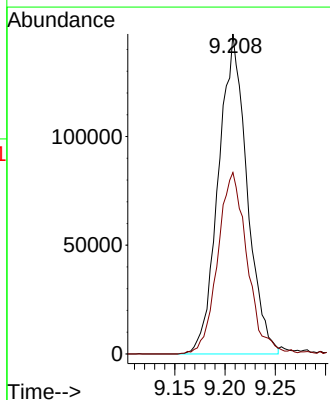
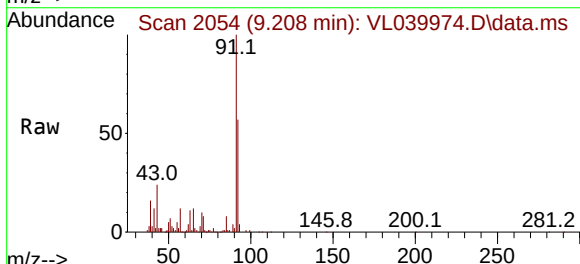
Manual Integrations
APPROVED

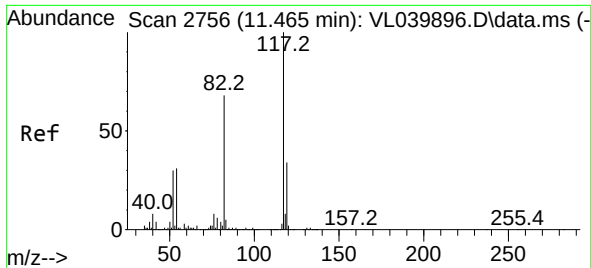
Reviewed By :Semsettin Yesilyurt 12/14/2022
Supervised By :Mahesh Dadoda 12/14/2022



#53
Toluene
Concen: 0.979 ppbv
RT: 9.208 min Scan# 2054
Delta R.T. 0.023 min
Lab File: VL039974.D
Acq: 12 Dec 2022 13:49

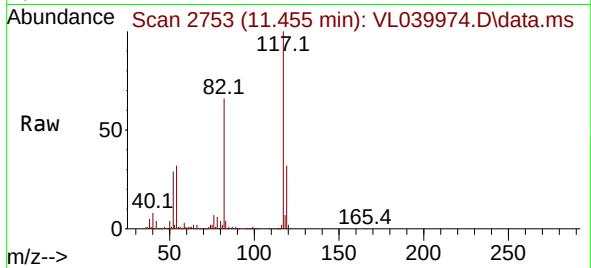
Tgt Ion: 91 Resp: 290893
Ion Ratio Lower Upper
91 100
92 59.3 49.8 74.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.455 min Scan# 21
Delta R.T. 0.023 min
Lab File: VL039974.D
Acq: 12 Dec 2022 13:49

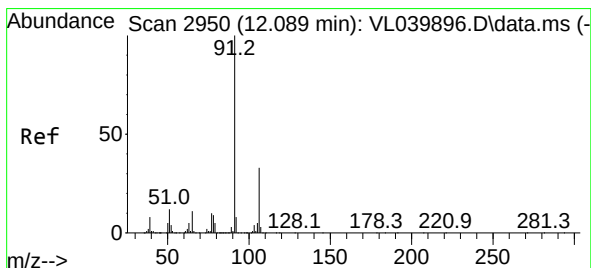
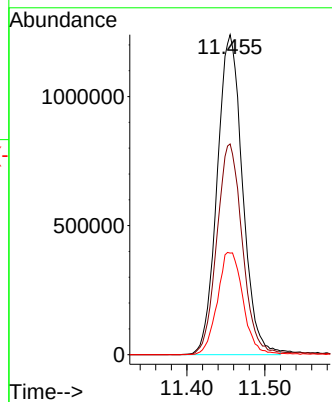
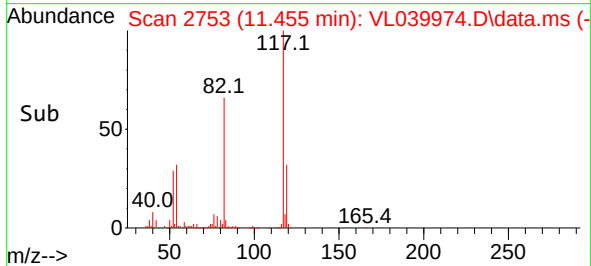
Instrument :
MSVOA_L
ClientSampleId :
IA-2



Tgt Ion:117 Resp: 280364
Ion Ratio Lower Upper
117 100
82 67.6 52.3 78.5
119 32.8 25.7 38.5

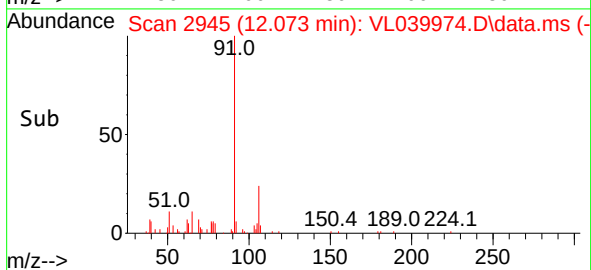
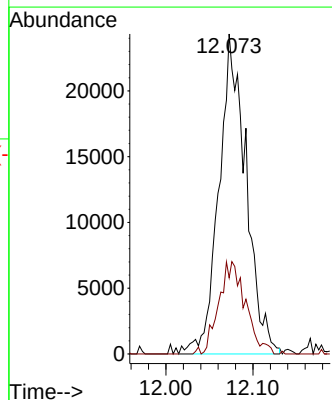
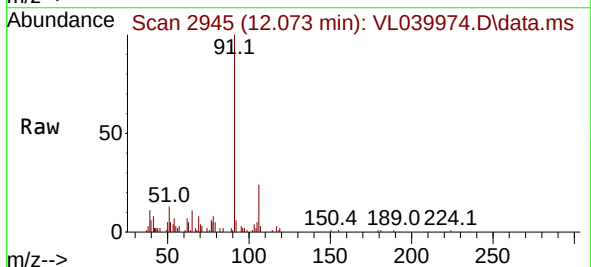
Manual Integrations
APPROVED

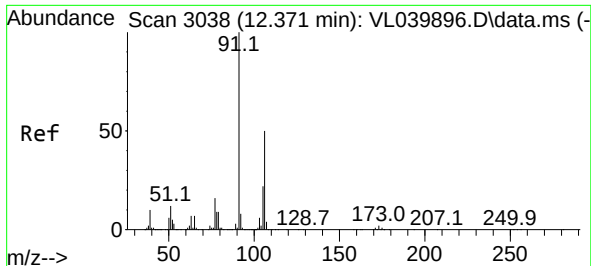
Reviewed By :Semsettin Yesilyurt 12/14/2022
Supervised By :Mahesh Dadoda 12/14/2022



#58
Ethyl Benzene
Concen: 0.139 ppbv m
RT: 12.073 min Scan# 2945
Delta R.T. 0.016 min
Lab File: VL039974.D
Acq: 12 Dec 2022 13:49

Tgt Ion: 91 Resp: 52726
Ion Ratio Lower Upper
91 100
106 23.8 26.1 39.1#





#59

m/p-Xylene

Concen: 0.503 ppbv m

RT: 12.330 min Scan# 3038

Delta R.T. -0.009 min

Lab File: VL039974.D

Acq: 12 Dec 2022 13:49

Instrument :

MSVOA_L

ClientSampleId :

IA-2

Tgt Ion: 91 Resp: 16009

Ion Ratio Lower Upper

91 100

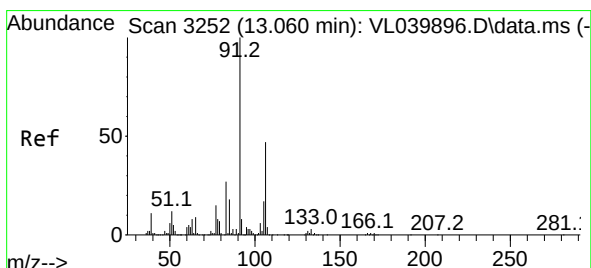
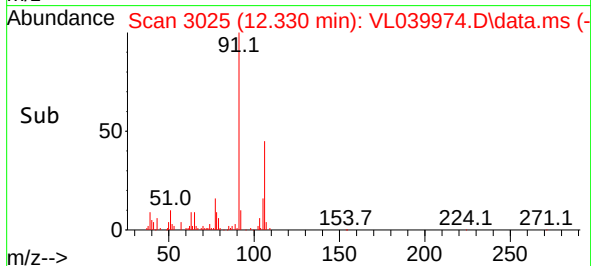
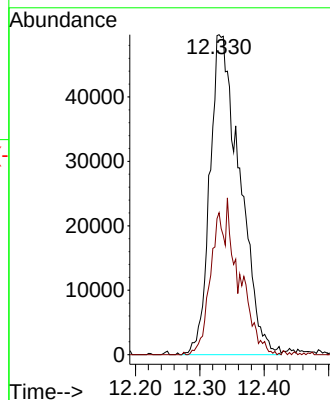
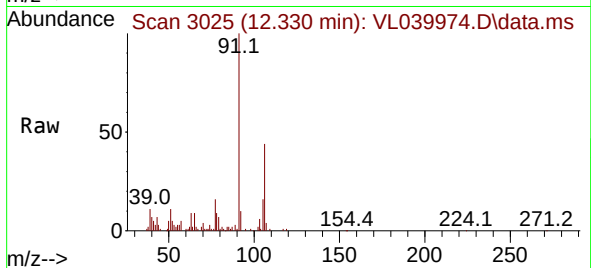
106 0.0 37.0 55.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/14/2022

Supervised By :Mahesh Dadoda 12/14/2022



#60

o-Xylene

Concen: 0.186 ppbv m

RT: 13.053 min Scan# 3250

Delta R.T. 0.026 min

Lab File: VL039974.D

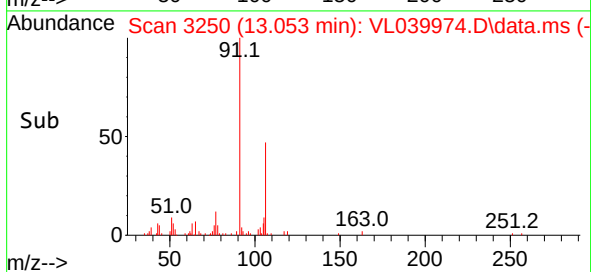
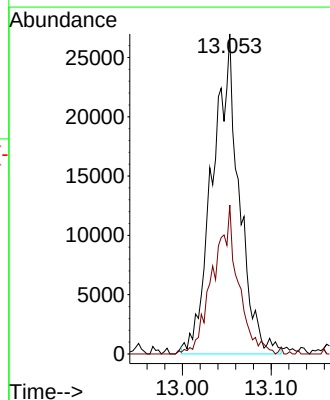
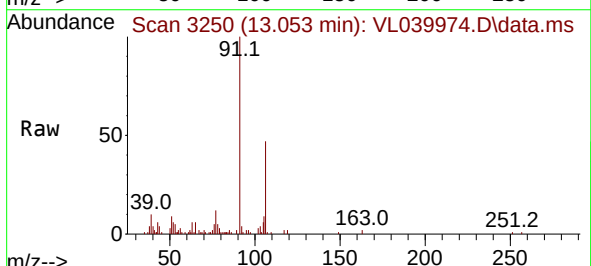
Acq: 12 Dec 2022 13:49

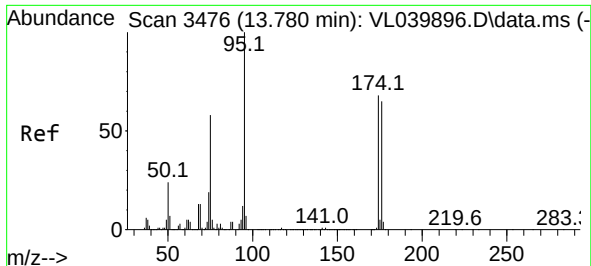
Tgt Ion: 91 Resp: 56423

Ion Ratio Lower Upper

91 100

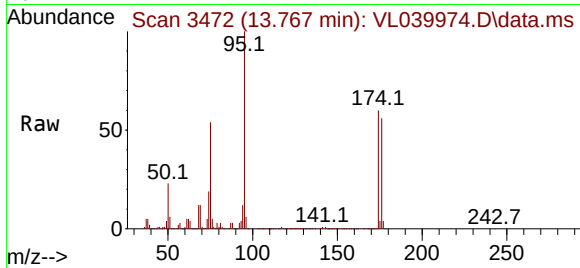
106 0.0 23.2 69.6





#68
1-Bromo-4-Fluorobenzene
Concen: 10.989 ppbv
RT: 13.767 min Scan# 3476
Delta R.T. 0.026 min
Lab File: VL039974.D
Acq: 12 Dec 2022 13:49

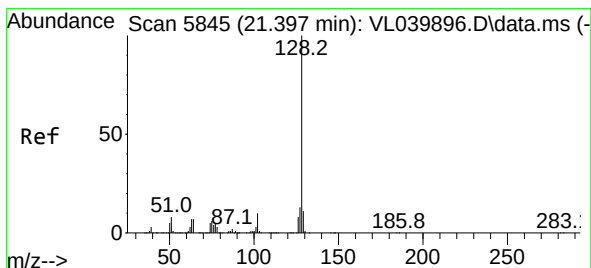
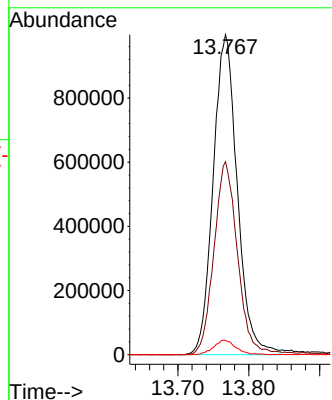
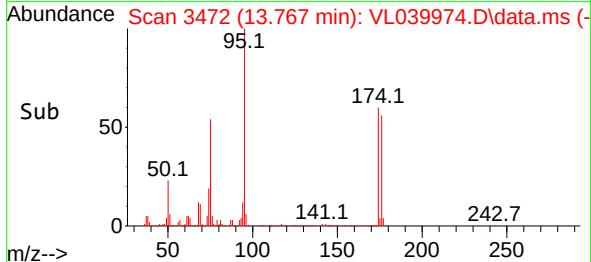
Instrument :
MSVOA_L
ClientSampleId :
IA-2



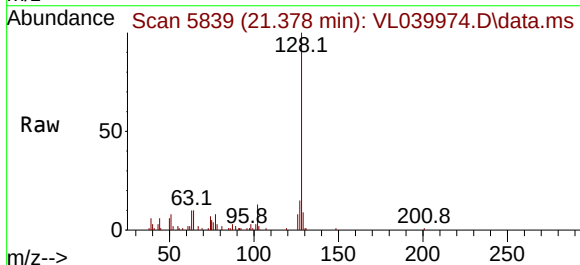
Tgt Ion: 95 Resp: 235324
Ion Ratio Lower Upper
95 100
174 60.0 53.7 80.5
175 4.3 4.0 6.0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/14/2022
Supervised By :Mahesh Dadoda 12/14/2022



#79
Naphthalene
Concen: 0.391 ppbv m
RT: 21.378 min Scan# 5839
Delta R.T. 0.029 min
Lab File: VL039974.D
Acq: 12 Dec 2022 13:49



Tgt Ion:128 Resp: 77431
Ion Ratio Lower Upper
128 100
127 14.6 10.0 15.0
129 8.7 8.8 13.2#

