

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092122\
 Data File : VL039651.D
 Acq On : 22 Sep 2022 1:37
 Operator : SY/AP
 Sample : N4669-06
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0PF8

Manual Integrations
 APPROVED

Reviewed By :Krupa Patel 09/28/2022
 Supervised By :Mahesh Dadoda 09/28/2022

Quant Time: Sep 22 08:24:21 2022

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091922AIR.M

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

QLast Update : Mon Sep 19 14:26:28 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.217	49	1032184	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.677	114	2644109	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.484	117	2470698	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.796	95	1883599	10.213	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.764	85	34380	0.287	ppbv #	85
3) Chlorodifluoromethane	2.684	51	276114	2.254	ppbv #	63
4) Chloromethane	2.845	50	48132	0.651	ppbv	91
9) Propene	2.738	41	1044447	18.670	ppbv #	60
11) Trichlorofluoromethane	3.597	101	44846	0.303	ppbv	88
13) Ethanol	3.275	45	3170157	743.721	ppbv	70
15) Acetone	3.494	43	3263762	28.416	ppbv	100
20) Methylene Chloride	3.960	84	934769	17.603	ppbv	93
26) Hexane	5.240	57	413809	3.893	ppbv #	59
29) Chloroform	5.301	83	457423	2.981	ppbv	98
34) 2-Butanone	4.816	43	172676	1.330	ppbv	94
35) Carbon Tetrachloride	6.510	117	21750m	0.155	ppbv	
36) Benzene	6.391	78	67063	0.332	ppbv #	90
37) 1,2-Dichloroethane	5.832	62	54083	0.492	ppbv #	93
42) Bromodichloromethane	7.275	83	38065m	0.249	ppbv	
44) 2,2,4-Trimethylpentane	7.349	57	127115	0.365	ppbv #	79
52) Tetrachloroethene	10.635	164	41771m	0.542	ppbv	
53) Toluene	9.240	91	482808	2.147	ppbv	100
58) Ethyl Benzene	12.111	91	105827	0.371	ppbv	96
59) m/p-Xylene	12.365	91	208599m	0.823	ppbv	
60) o-Xylene	13.082	91	80337	0.332	ppbv	99
61) Styrene	12.921	104	38880	0.298	ppbv #	81
69) p-Isopropyltoluene	17.008	119	69961m	0.189	ppbv	
74) 1,2,4-Trimethylbenzene	16.124	105	77638m	0.274	ppbv	

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

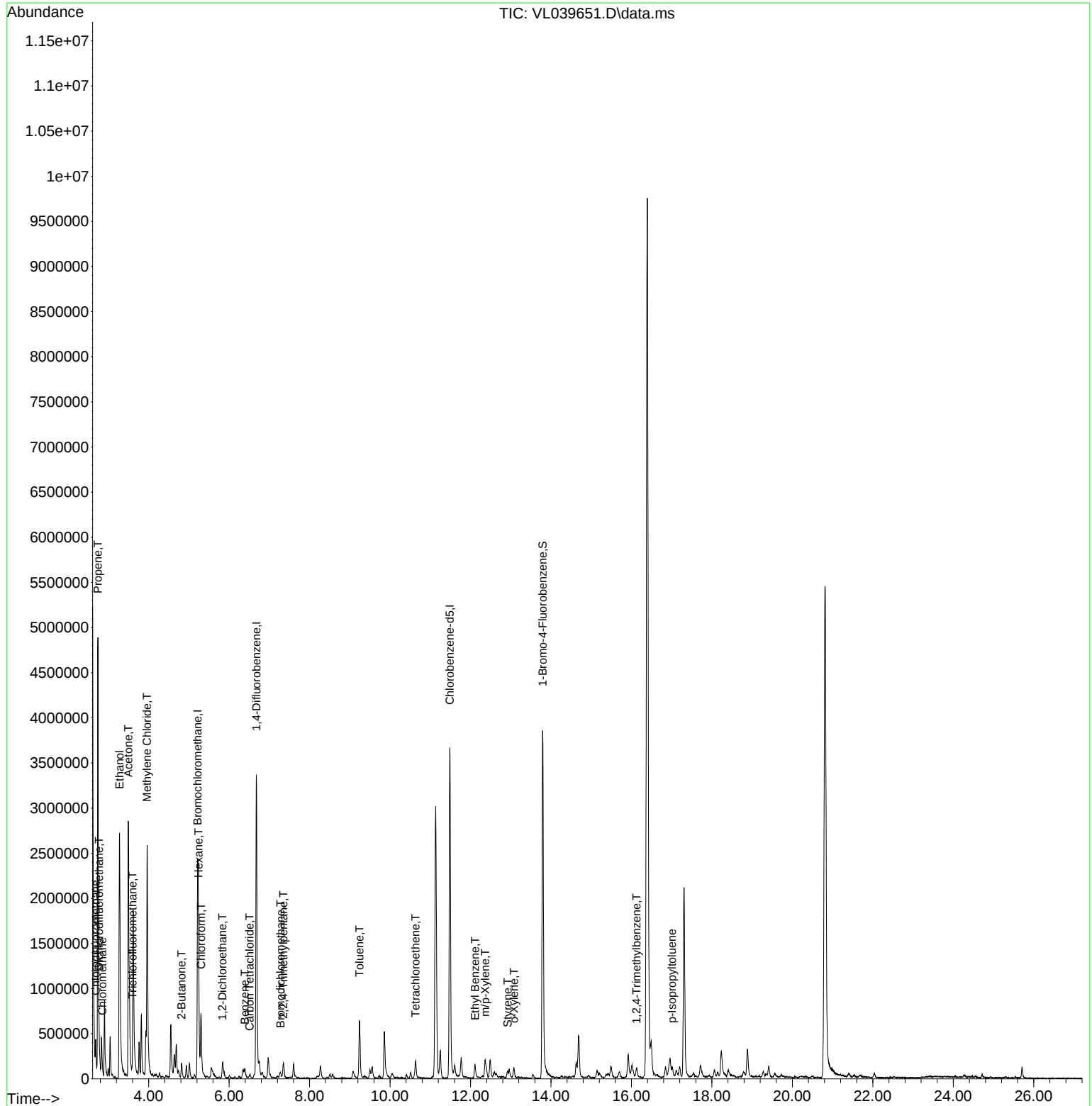
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092122\
Data File : VL039651.D
Acq On : 22 Sep 2022 1:37
Operator : SY/AP
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Misc : 400mL/MSVOA_L
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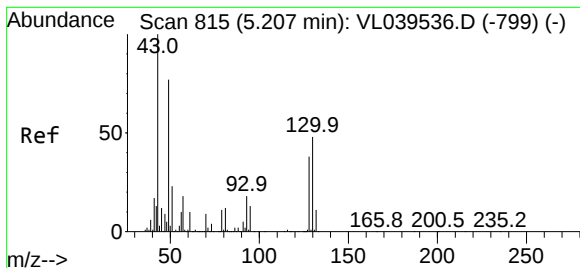
Instrument :
MSVOA_L
ClientSampleId :
C0PF8

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Supervised By :Mahesh Dadoda 09/28/2022

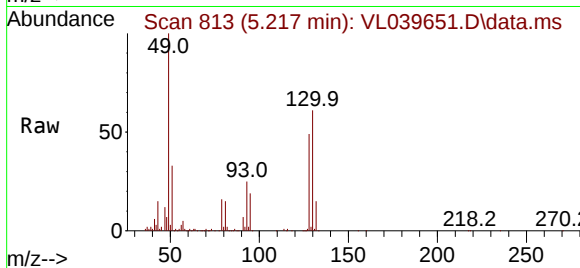
Quant Time: Sep 22 08:24:21 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091922AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Mon Sep 19 14:26:28 2022
Response via : Initial Calibration





#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.217 min Scan# 81
 Delta R.T. 0.010 min
 Lab File: VL039651.D
 Acq: 22 Sep 2022 1:37

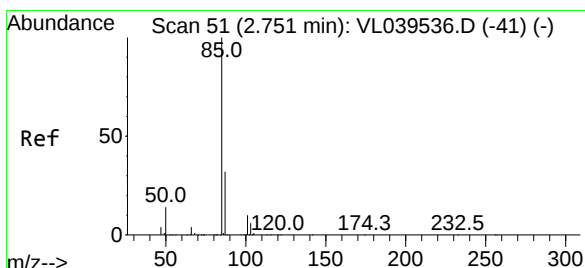
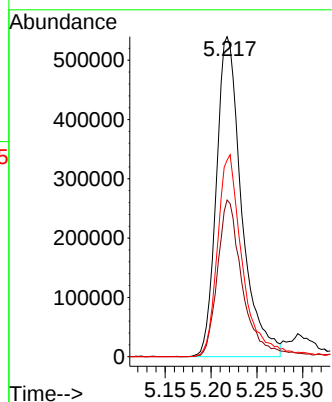
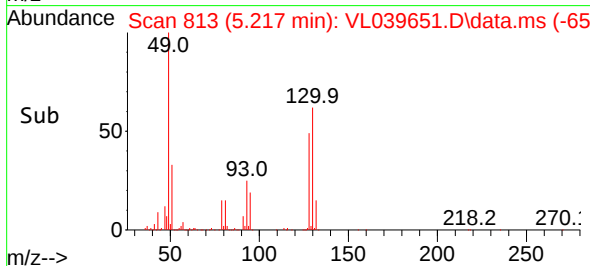
Instrument :
 MSVOA_L
 ClientSampleId :
 C0PF8



Tgt Ion: 49 Resp: 1032184
 Ion Ratio Lower Upper
 49 100
 128 49.6 26.7 80.0
 130 63.2 34.3 102.8

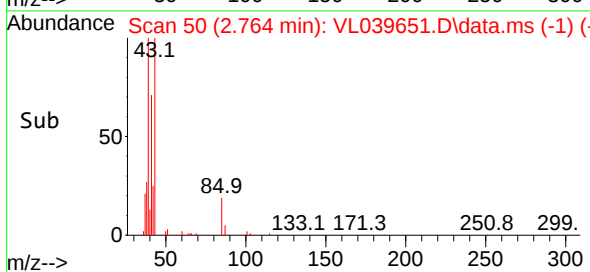
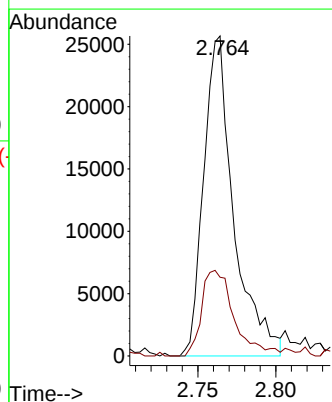
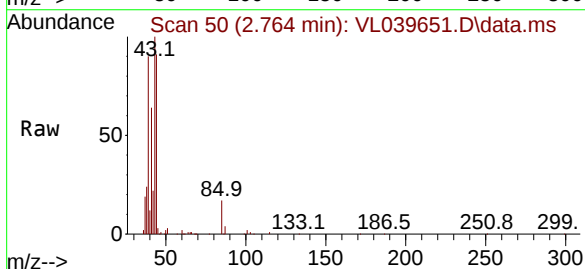
Manual Integrations
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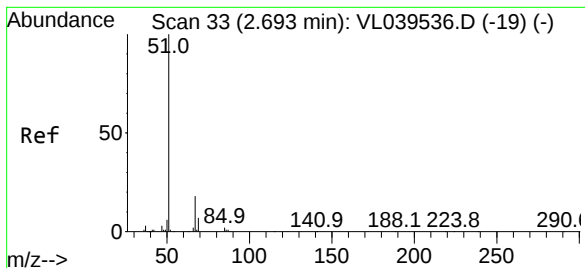
Reviewed By :Krupa Patel 09/28/2022
 Supervised By :Mahesh Dadoda 09/28/2022



#2
 Dichlorodifluoromethane
 Concen: 0.287 ppbv
 RT: 2.764 min Scan# 50
 Delta R.T. 0.013 min
 Lab File: VL039651.D
 Acq: 22 Sep 2022 1:37

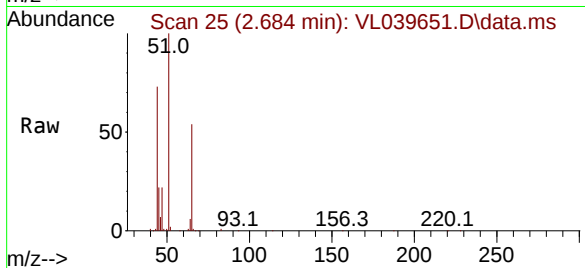
Tgt Ion: 85 Resp: 34380
 Ion Ratio Lower Upper
 85 100
 87 24.6 26.7 40.1#





#3
Chlorodifluoromethane
Concen: 2.254 ppbv
RT: 2.684 min Scan# 21
Delta R.T. -0.009 min
Lab File: VL039651.D
Acq: 22 Sep 2022 1:37

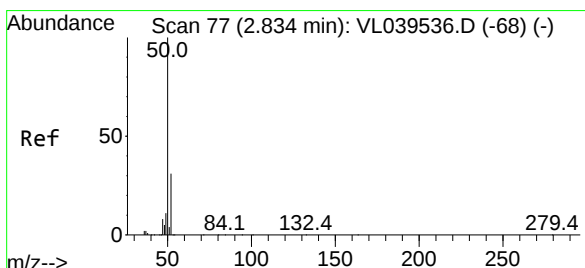
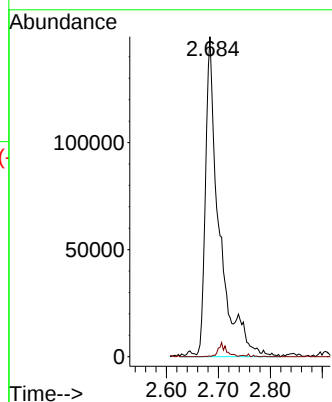
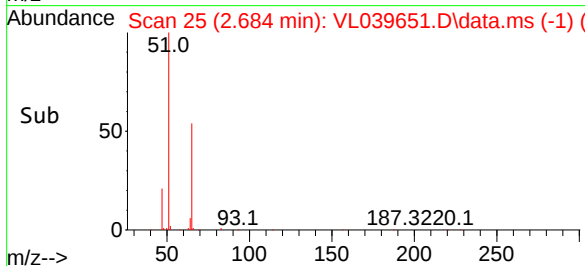
Instrument :
MSVOA_L
ClientSampleId :
COPF8



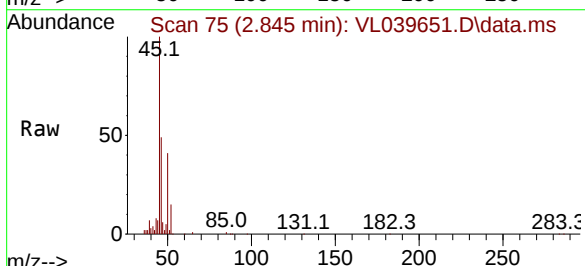
Tgt Ion: 51 Resp: 276114
Ion Ratio Lower Upper
51 100
67 2.9 15.7 23.5

Manual Integrations
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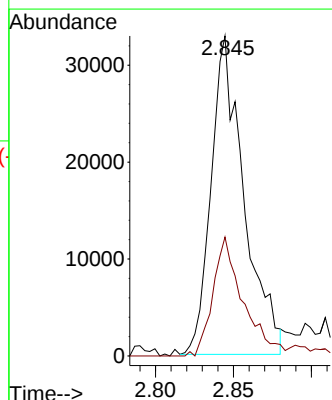
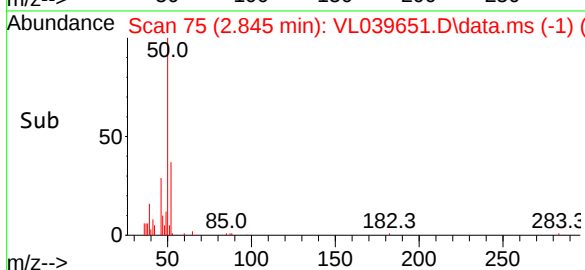
Reviewed By :Krupa Patel 09/28/2022
Supervised By :Mahesh Dadoda 09/28/2022

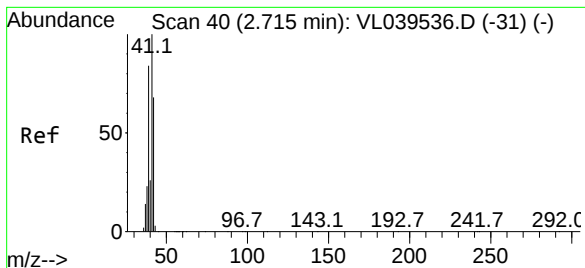


#4
Chloromethane
Concen: 0.651 ppbv
RT: 2.845 min Scan# 75
Delta R.T. 0.010 min
Lab File: VL039651.D
Acq: 22 Sep 2022 1:37



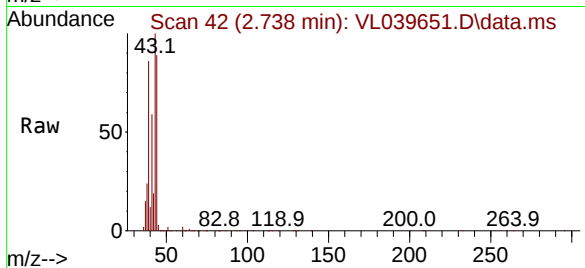
Tgt Ion: 50 Resp: 48132
Ion Ratio Lower Upper
50 100
52 37.9 26.5 39.7





#9
 Propene
 Concen: 18.670 ppbv
 RT: 2.738 min Scan# 41
 Delta R.T. 0.023 min
 Lab File: VL039651.D
 Acq: 22 Sep 2022 1:37

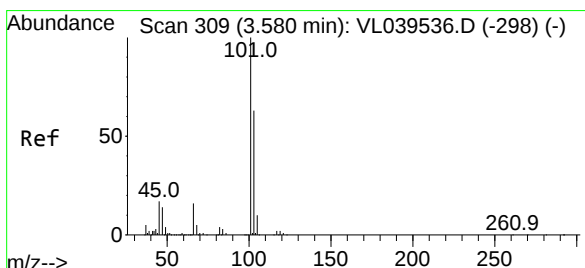
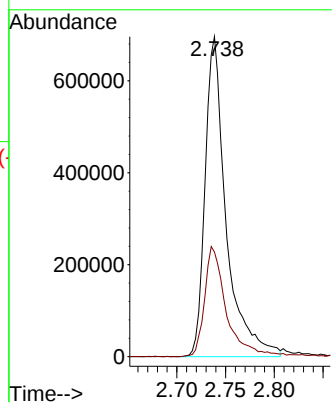
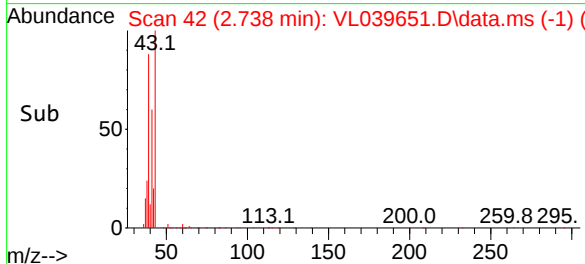
Instrument :
 MSVOA_L
 ClientSampleId :
 C0PF8



Tgt Ion: 41 Resp: 104444
 Ion Ratio Lower Upper
 41 100
 42 36.5 55.2 82.8

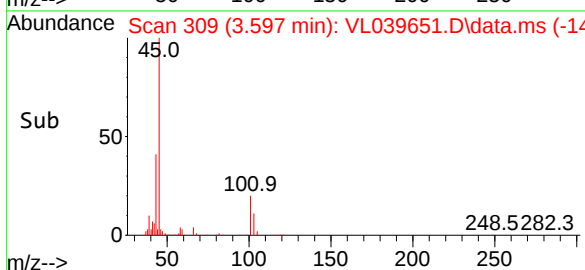
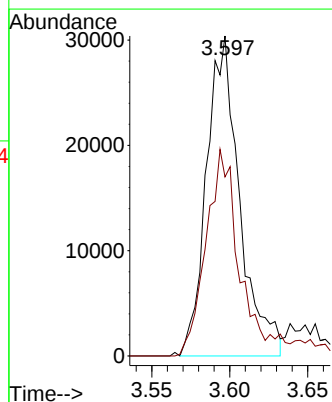
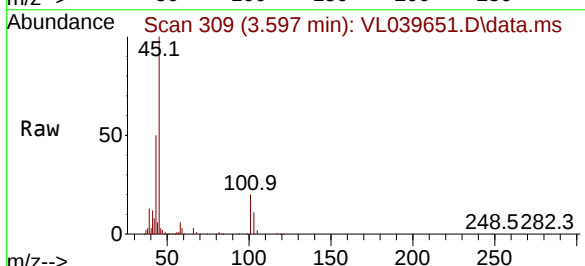
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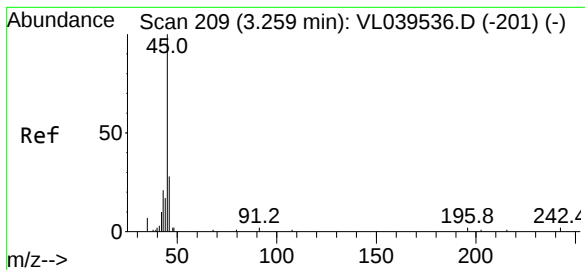
Reviewed By :Krupa Patel 09/28/2022
 Supervised By :Mahesh Dadoda 09/28/2022



#11
 Trichlorofluoromethane
 Concen: 0.303 ppbv
 RT: 3.597 min Scan# 309
 Delta R.T. 0.017 min
 Lab File: VL039651.D
 Acq: 22 Sep 2022 1:37

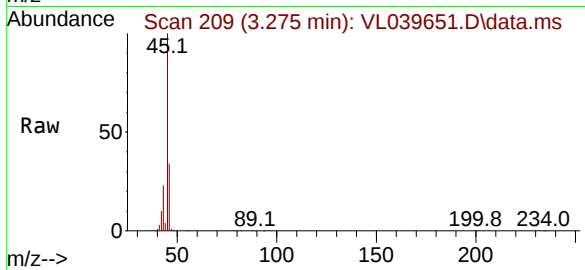
Tgt Ion:101 Resp: 44846
 Ion Ratio Lower Upper
 101 100
 103 55.4 51.8 77.8





#13
Ethanol
Concen: 743.721 ppbv
RT: 3.275 min Scan# 209
Delta R.T. 0.017 min
Lab File: VL039651.D
Acq: 22 Sep 2022 1:37

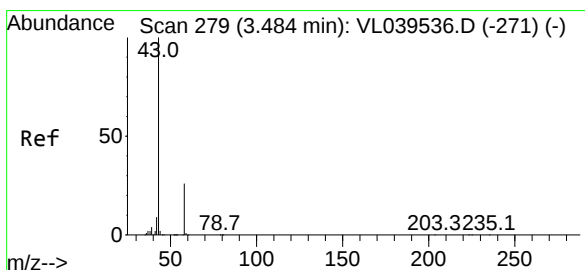
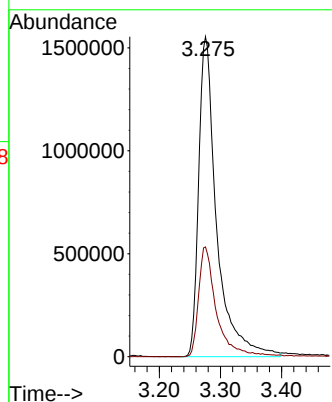
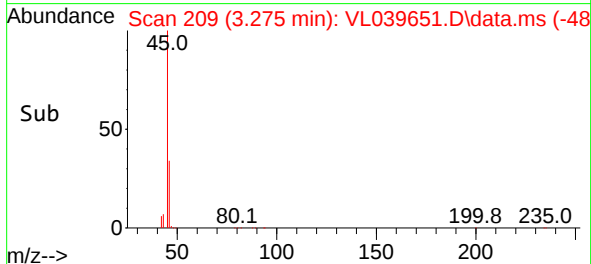
Instrument :
MSVOA_L
ClientSampleId :
COPF8



Tgt Ion: 45 Resp: 317015
Ion Ratio Lower Upper
45 100
46 34.8 22.8 91.2

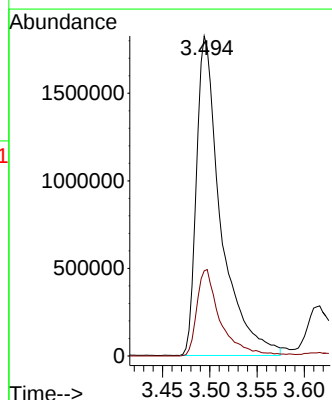
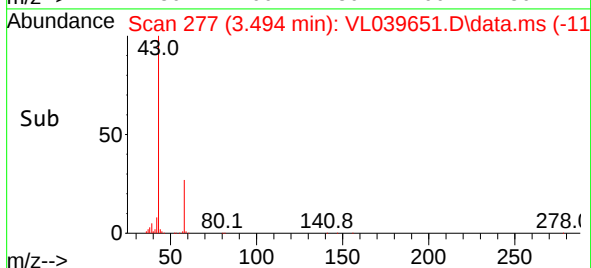
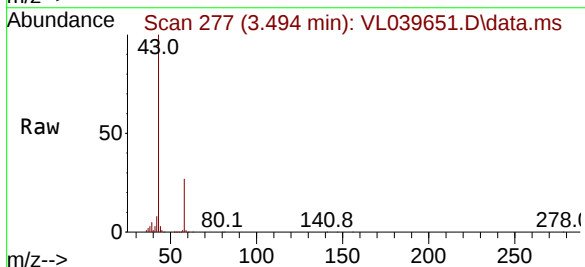
Manual Integrations
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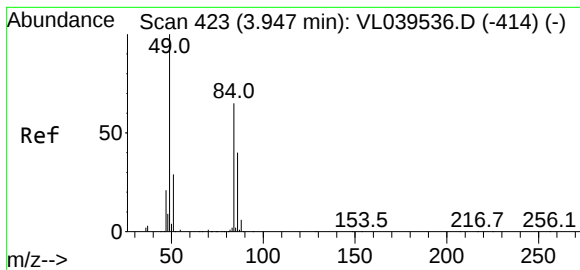
Reviewed By :Krupa Patel 09/28/2022
Supervised By :Mahesh Dadoda 09/28/2022



#15
Acetone
Concen: 28.416 ppbv
RT: 3.494 min Scan# 277
Delta R.T. 0.010 min
Lab File: VL039651.D
Acq: 22 Sep 2022 1:37

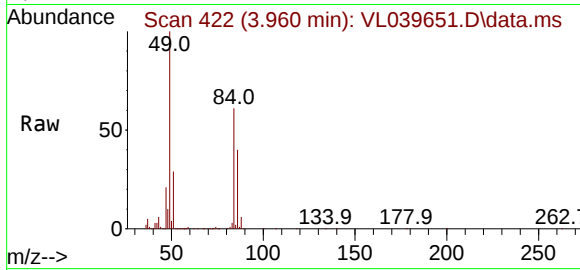
Tgt Ion: 43 Resp: 3263762
Ion Ratio Lower Upper
43 100
58 26.5 21.0 31.6





#20
Methylene Chloride
Concen: 17.603 ppbv
RT: 3.960 min Scan# 41
Delta R.T. 0.013 min
Lab File: VL039651.D
Acq: 22 Sep 2022 1:37

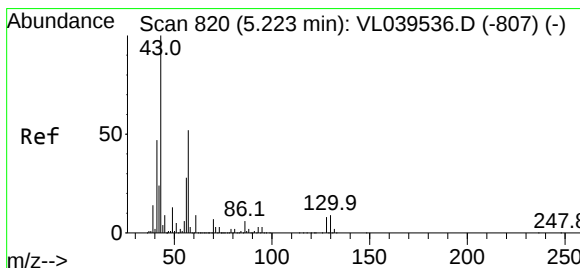
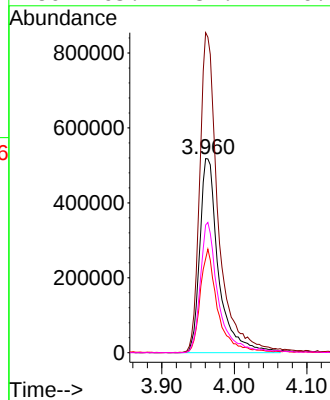
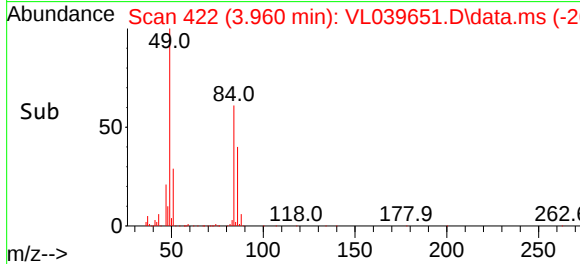
Instrument :
MSVOA_L
ClientSampleId :
COPF8



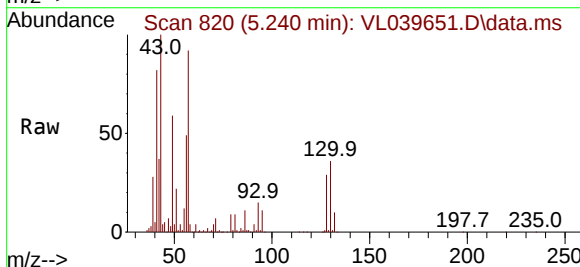
Tgt Ion: 84 Resp: 934769
Ion Ratio Lower Upper
84 100
49 164.7 123.1 184.7
51 48.1 34.4 51.6
86 65.7 51.1 76.7

Manual Integrations
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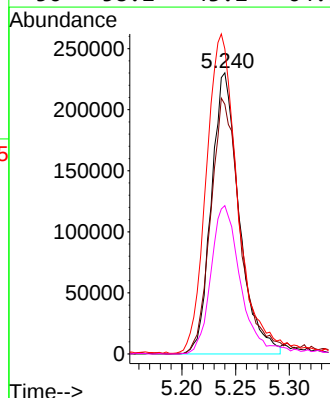
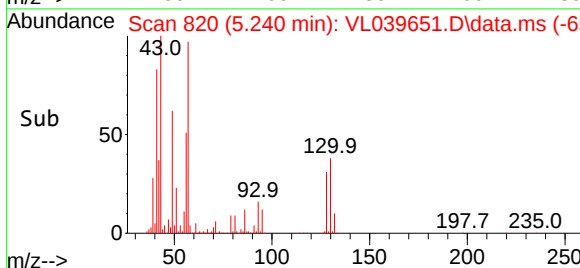
Reviewed By :Krupa Patel 09/28/2022
Supervised By :Mahesh Dadoda 09/28/2022

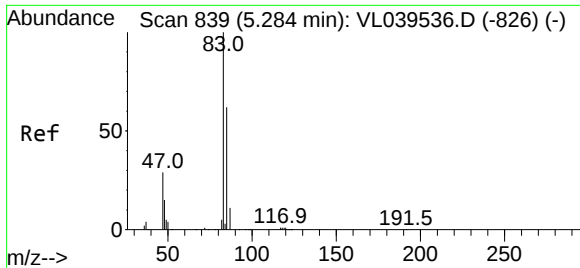


#26
Hexane
Concen: 3.893 ppbv
RT: 5.240 min Scan# 820
Delta R.T. 0.017 min
Lab File: VL039651.D
Acq: 22 Sep 2022 1:37



Tgt Ion: 57 Resp: 413809
Ion Ratio Lower Upper
57 100
41 100.0 76.9 115.3
43 130.3 191.0 286.6#
56 58.2 43.2 64.8





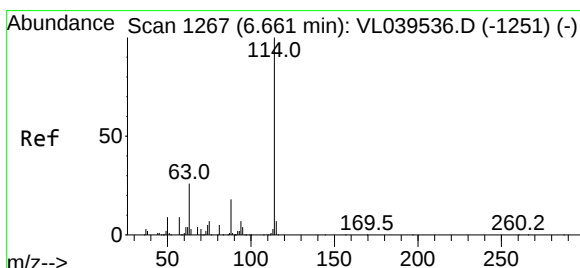
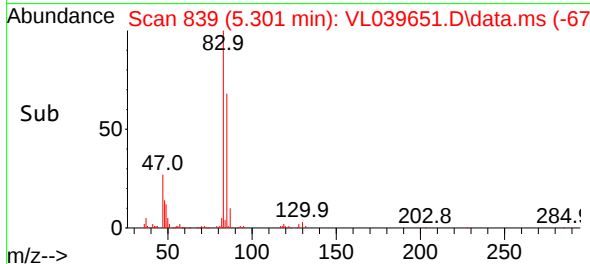
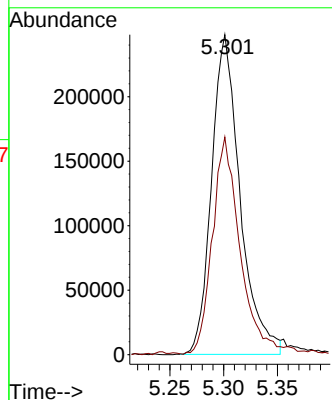
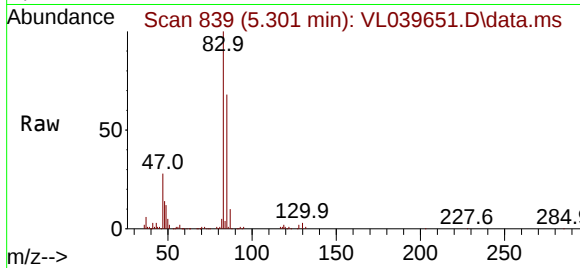
#29
Chloroform
Concen: 2.981 ppbv
RT: 5.301 min Scan# 81
Delta R.T. 0.017 min
Lab File: VL039651.D
Acq: 22 Sep 2022 1:37

Instrument :
MSVOA_L
ClientSampleId :
COPF8

Tgt Ion: 83 Resp: 45742
Ion Ratio Lower Upper
83 100
85 67.7 52.8 79.2

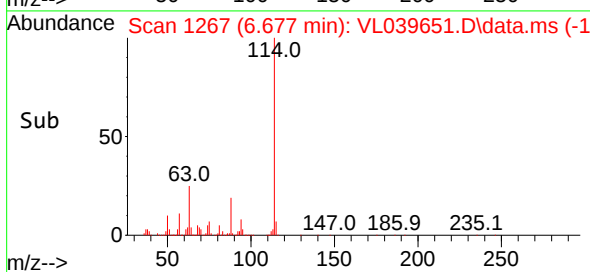
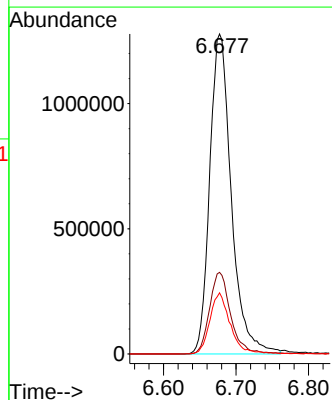
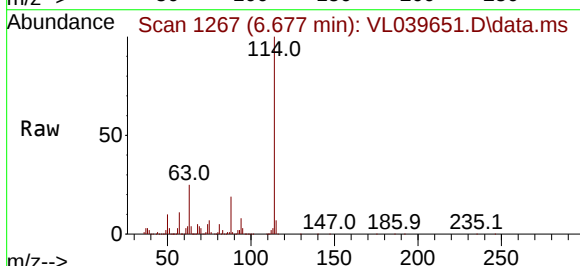
Manual Integrations
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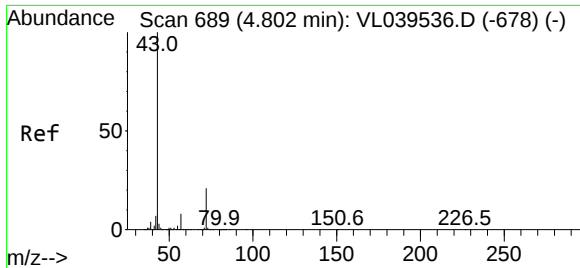
Reviewed By :Krupa Patel 09/28/2022
Supervised By :Mahesh Dadoda 09/28/2022



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.677 min Scan# 1267
Delta R.T. 0.017 min
Lab File: VL039651.D
Acq: 22 Sep 2022 1:37

Tgt Ion:114 Resp: 2644109
Ion Ratio Lower Upper
114 100
63 25.3 20.2 30.4
88 18.2 14.5 21.7





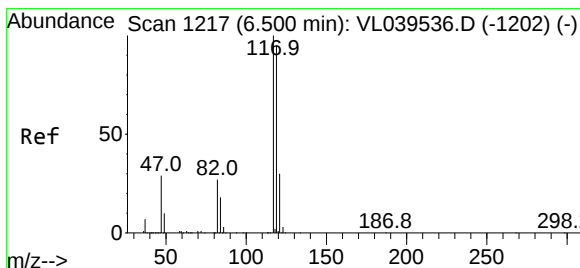
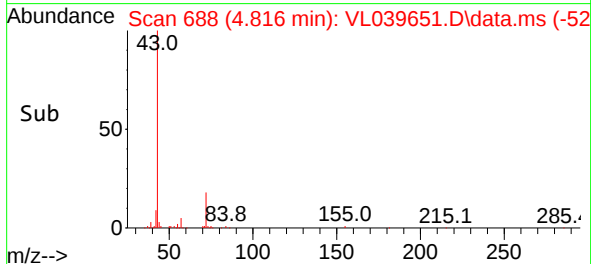
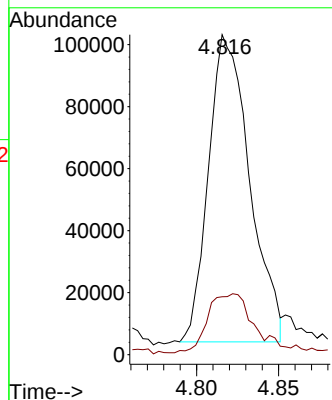
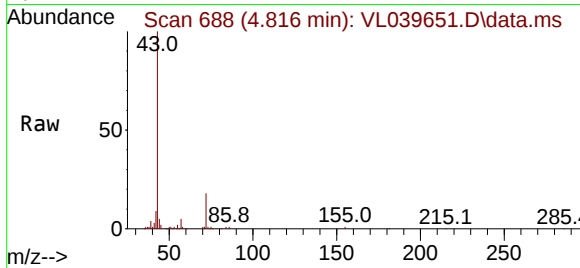
#34
2-Butanone
Concen: 1.330 ppbv
RT: 4.816 min Scan# 61
Delta R.T. 0.013 min
Lab File: VL039651.D
Acq: 22 Sep 2022 1:37

Instrument :
MSVOA_L
ClientSampleId :
COPF8

Tgt Ion: 43 Resp: 172670
Ion Ratio Lower Upper
43 100
72 25.2 17.9 26.9

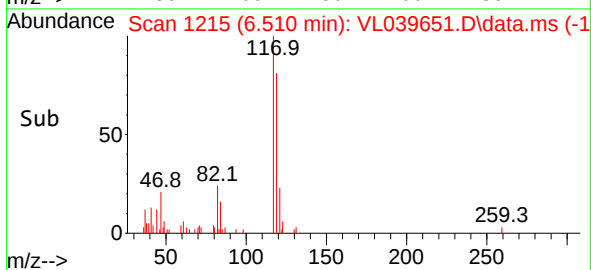
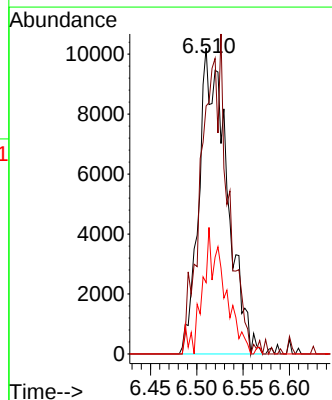
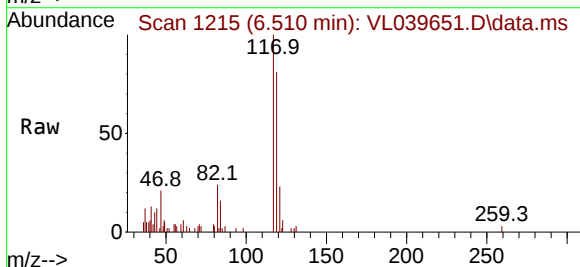
Manual Integrations
APPROVED

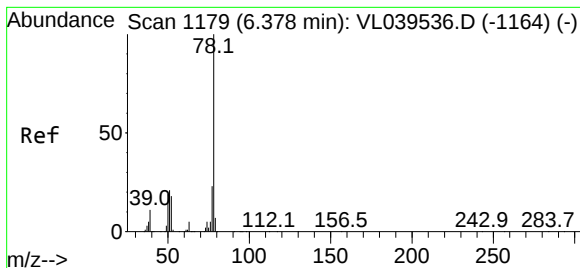
Reviewed By :Krupa Patel 09/28/2022
Supervised By :Mahesh Dadoda 09/28/2022



#35
Carbon Tetrachloride
Concen: 0.155 ppbv m
RT: 6.510 min Scan# 1215
Delta R.T. 0.010 min
Lab File: VL039651.D
Acq: 22 Sep 2022 1:37

Tgt Ion:117 Resp: 21750
Ion Ratio Lower Upper
117 100
119 81.1 75.4 113.2
121 23.3 24.2 36.2#





#36

Benzene

Concen: 0.332 ppbv

RT: 6.391 min Scan# 1179

Delta R.T. 0.013 min

Lab File: VL039651.D

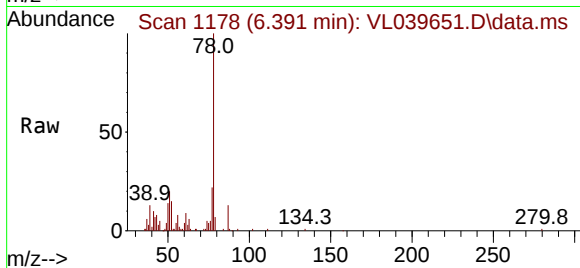
Acq: 22 Sep 2022 1:37

Instrument :

MSVOA_L

ClientSampleId :

C0PF8



Tgt Ion: 78 Resp: 67063

Ion Ratio Lower Upper

78 100

77 21.3 20.3 30.5

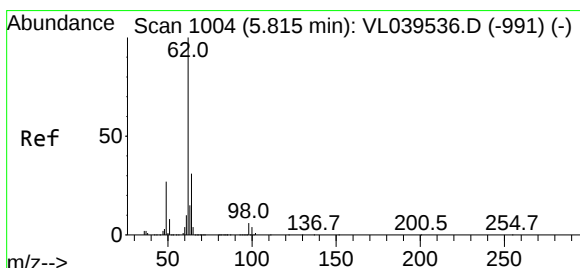
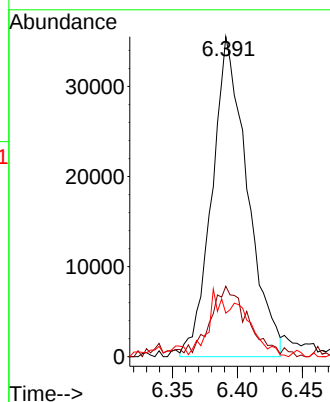
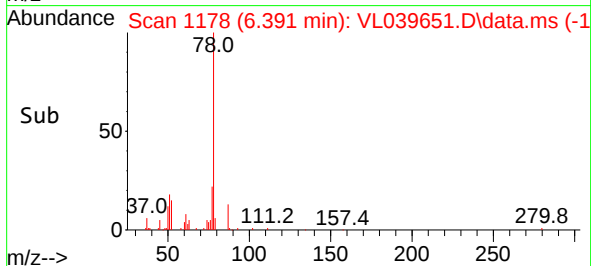
50 13.2 15.5 23.3

Manual Integrations

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Reviewed By :Krupa Patel 09/28/2022

Supervised By :Mahesh Dadoda 09/28/2022



#37

1,2-Dichloroethane

Concen: 0.492 ppbv

RT: 5.832 min Scan# 1004

Delta R.T. 0.017 min

Lab File: VL039651.D

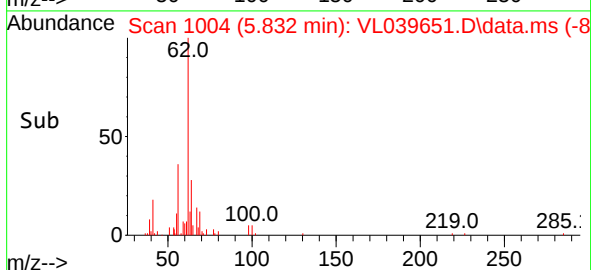
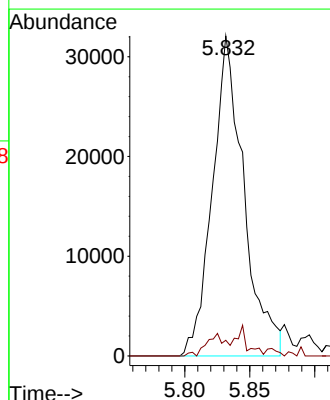
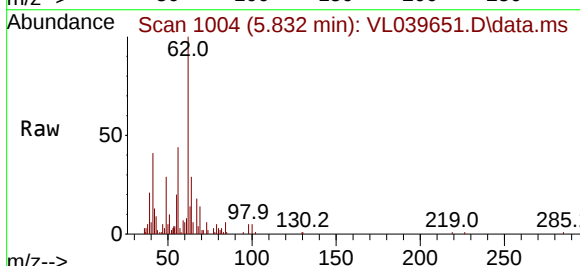
Acq: 22 Sep 2022 1:37

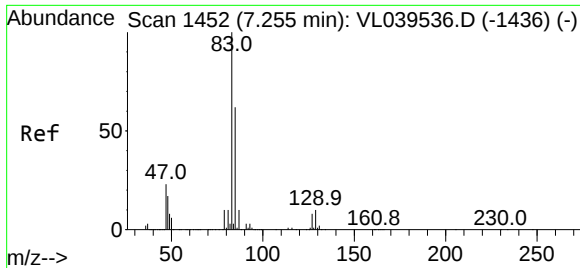
Tgt Ion: 62 Resp: 54083

Ion Ratio Lower Upper

62 100

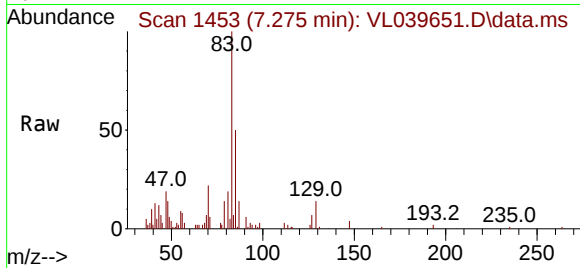
98 8.7 5.1 7.7#





#42
Bromodichloromethane
Concen: 0.249 ppbv m
RT: 7.275 min Scan# 1453
Delta R.T. 0.020 min
Lab File: VL039651.D
Acq: 22 Sep 2022 1:37

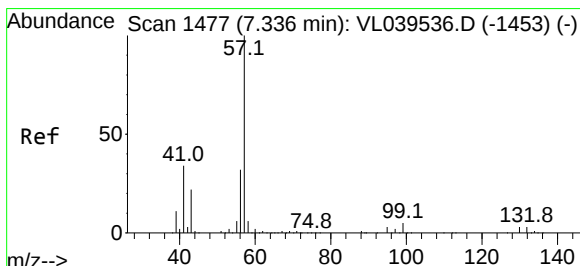
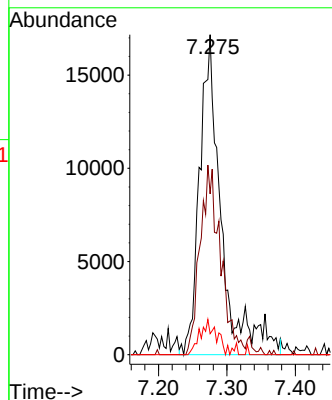
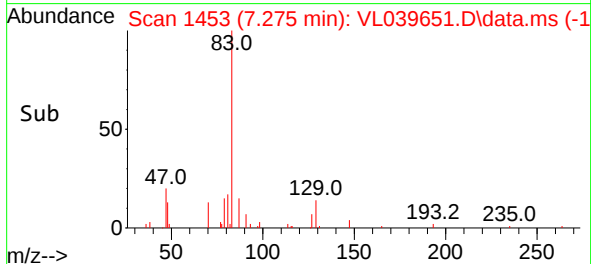
Instrument :
MSVOA_L
ClientSampleId :
COPF8



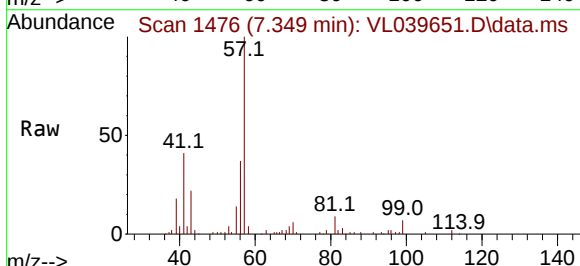
Tgt Ion: 83 Resp: 3806
Ion Ratio Lower Upper
83 100
85 50.2 50.7 76.1
127 6.5 6.6 9.8

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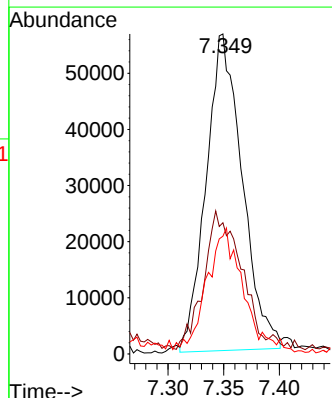
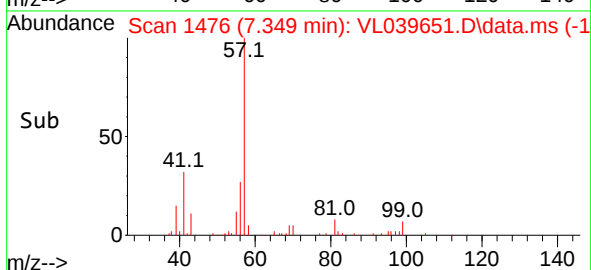
Reviewed By :Krupa Patel 09/28/2022
Supervised By :Mahesh Dadoda 09/28/2022

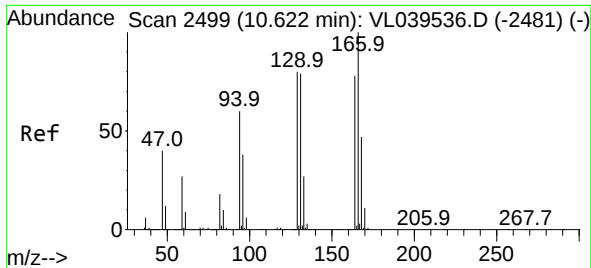


#44
2,2,4-Trimethylpentane
Concen: 0.365 ppbv
RT: 7.349 min Scan# 1476
Delta R.T. 0.013 min
Lab File: VL039651.D
Acq: 22 Sep 2022 1:37



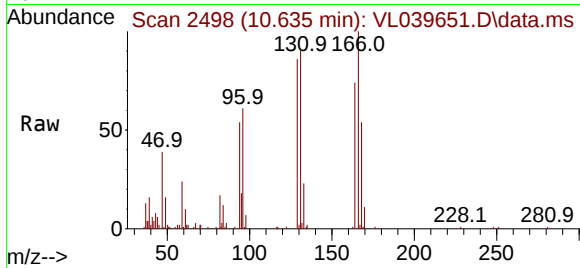
Tgt Ion: 57 Resp: 127115
Ion Ratio Lower Upper
57 100
41 46.4 27.4 41.2#
56 42.3 24.5 36.7#





#52
Tetrachloroethene
Concen: 0.542 ppbv m
RT: 10.635 min Scan# 2499
Delta R.T. 0.013 min
Lab File: VL039651.D
Acq: 22 Sep 2022 1:37

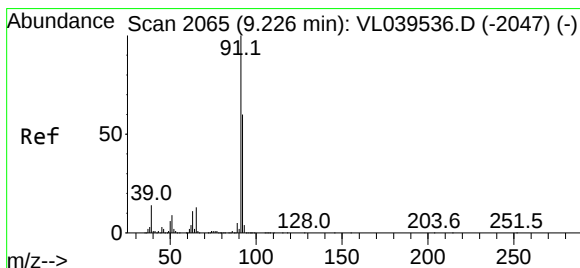
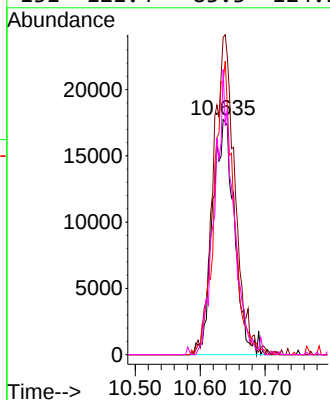
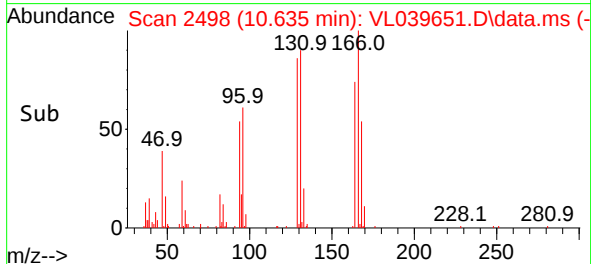
Instrument :
MSVOA_L
ClientSampleId :
COPF8



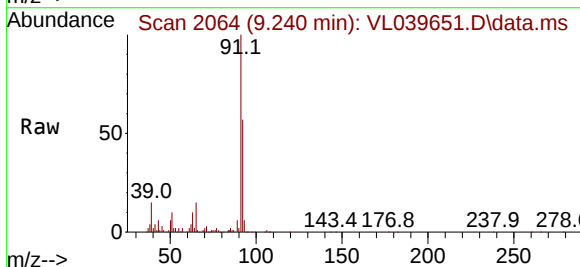
Tgt Ion:164 Resp: 4177
Ion Ratio Lower Upper
164 100
166 135.0 102.2 153.2
129 116.1 85.8 128.8
131 121.4 83.3 124.9

Manual Integrations
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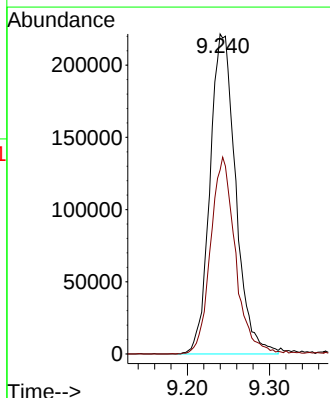
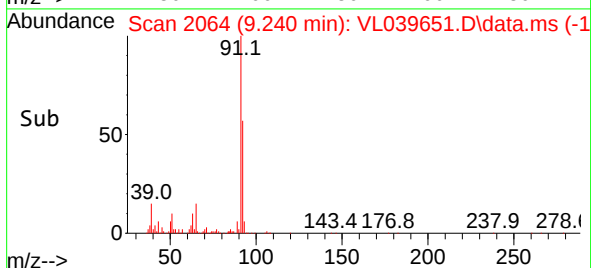
Reviewed By :Krupa Patel 09/28/2022
Supervised By :Mahesh Dadoda 09/28/2022

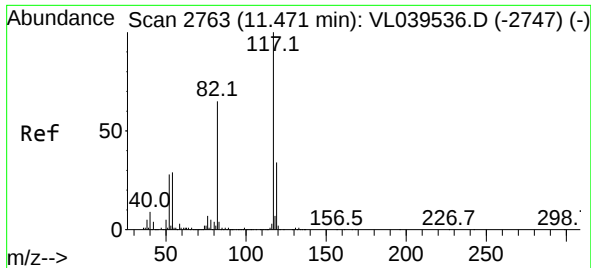


#53
Toluene
Concen: 2.147 ppbv
RT: 9.240 min Scan# 2064
Delta R.T. 0.013 min
Lab File: VL039651.D
Acq: 22 Sep 2022 1:37



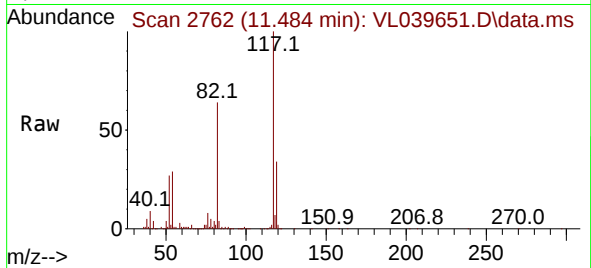
Tgt Ion: 91 Resp: 482808
Ion Ratio Lower Upper
91 100
92 59.9 48.2 72.2





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.484 min Scan# 2762
Delta R.T. 0.013 min
Lab File: VL039651.D
Acq: 22 Sep 2022 1:37

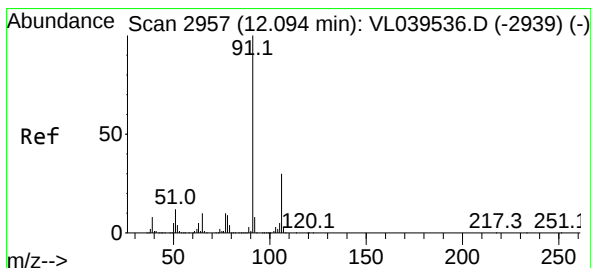
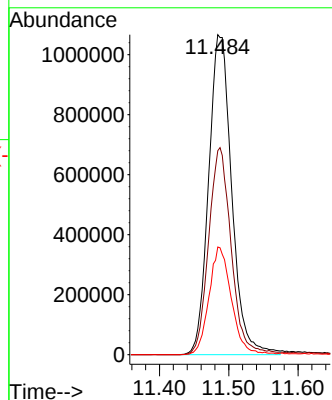
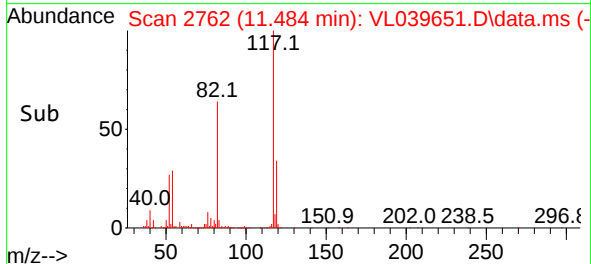
Instrument :
MSVOA_L
ClientSampleId :
COPF8



Tgt Ion: 117 Resp: 2470698
Ion Ratio Lower Upper
117 100
82 63.7 50.8 76.2
119 33.1 24.1 36.1

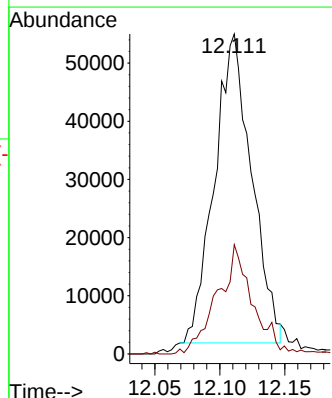
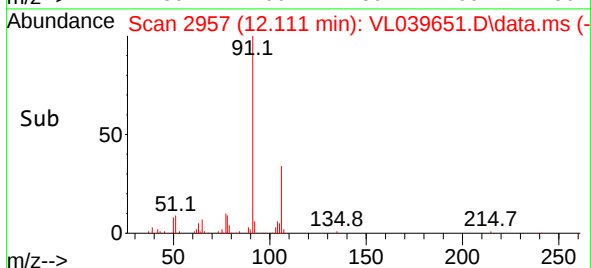
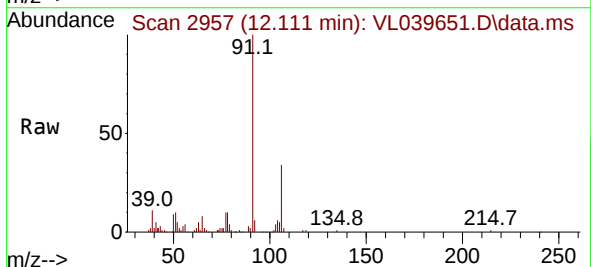
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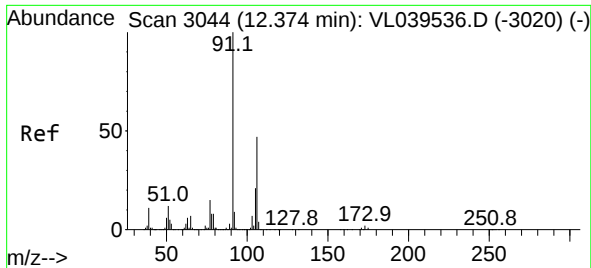
Reviewed By :Krupa Patel 09/28/2022
Supervised By :Mahesh Dadoda 09/28/2022



#58
Ethyl Benzene
Concen: 0.371 ppbv
RT: 12.111 min Scan# 2957
Delta R.T. 0.017 min
Lab File: VL039651.D
Acq: 22 Sep 2022 1:37

Tgt Ion: 91 Resp: 105827
Ion Ratio Lower Upper
91 100
106 33.9 25.4 38.0





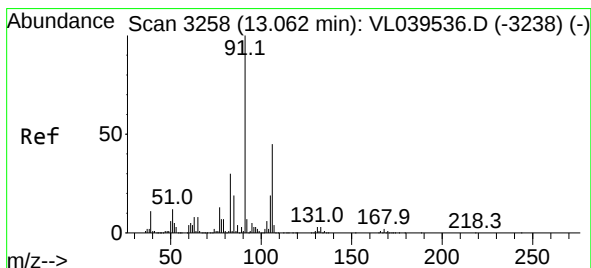
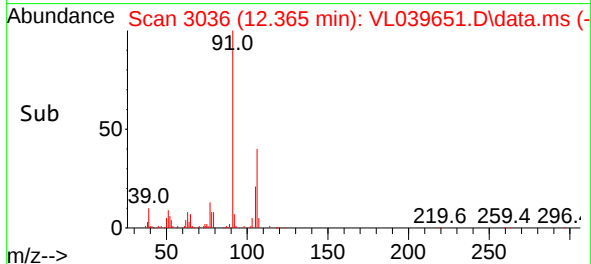
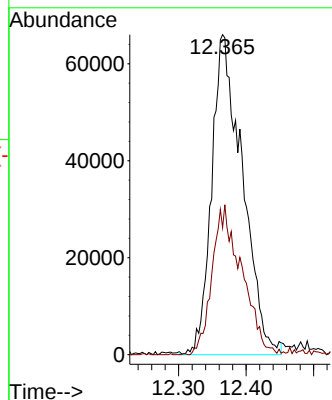
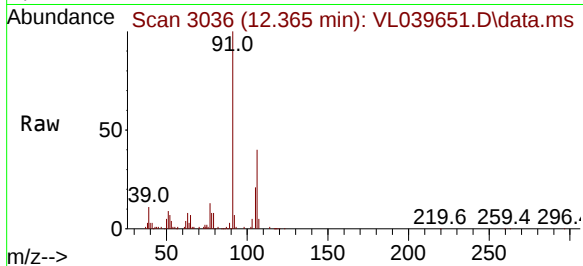
#59
m/p-Xylene
Concen: 0.823 ppbv m
RT: 12.365 min Scan# 3044
Delta R.T. -0.009 min
Lab File: VL039651.D
Acq: 22 Sep 2022 1:37

Instrument :
MSVOA_L
ClientSampleId :
COPF8

Tgt Ion: 91 Resp: 208599
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.2

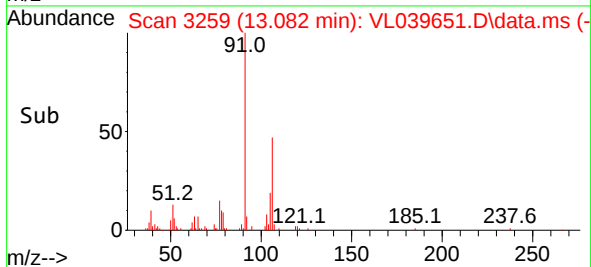
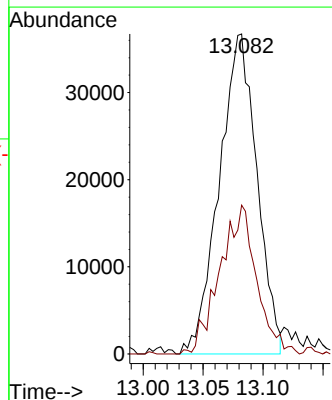
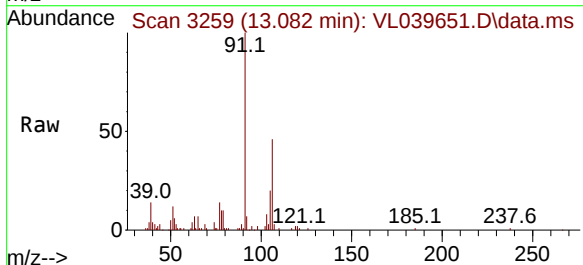
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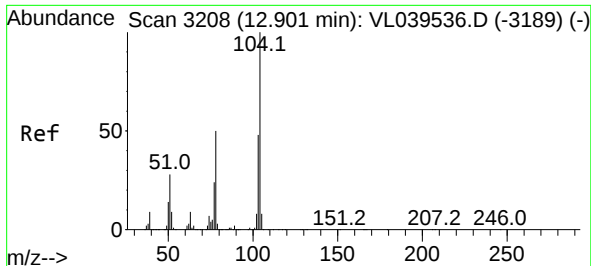
Reviewed By :Krupa Patel 09/28/2022
Supervised By :Mahesh Dadoda 09/28/2022



#60
o-Xylene
Concen: 0.332 ppbv
RT: 13.082 min Scan# 3259
Delta R.T. 0.020 min
Lab File: VL039651.D
Acq: 22 Sep 2022 1:37

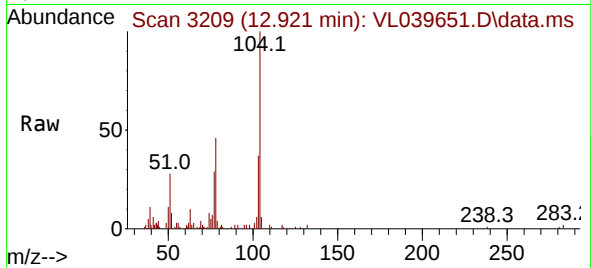
Tgt Ion: 91 Resp: 80337
Ion Ratio Lower Upper
91 100
106 45.8 22.4 67.3





#61
Styrene
Concen: 0.298 ppbv
RT: 12.921 min Scan# 3209
Delta R.T. 0.020 min
Lab File: VL039651.D
Acq: 22 Sep 2022 1:37

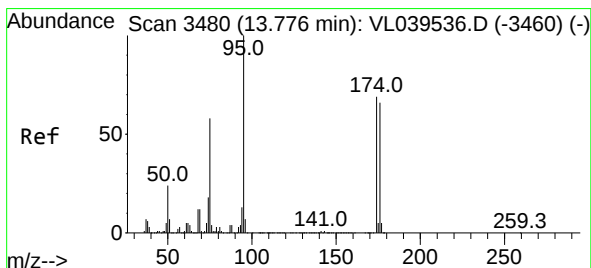
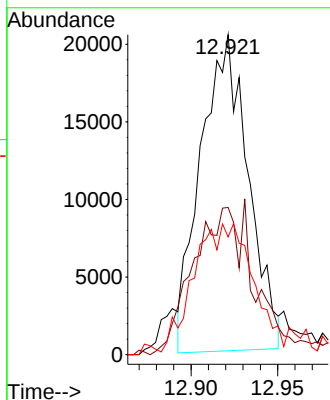
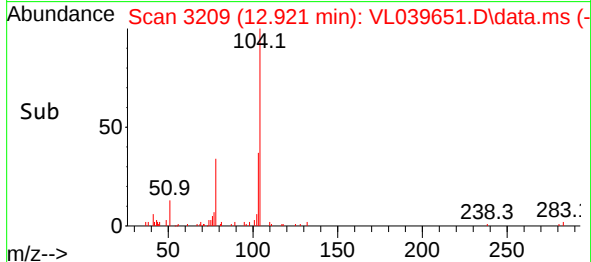
Instrument :
MSVOA_L
ClientSampleId :
COPF8



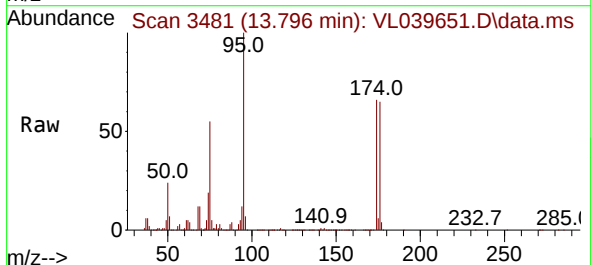
Tgt Ion: 104 Resp: 38880
Ion Ratio Lower Upper
104 100
78 66.7 41.2 61.8
103 59.7 38.7 58.1

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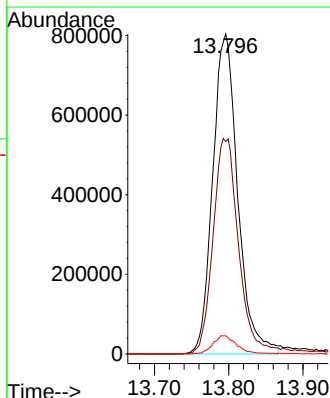
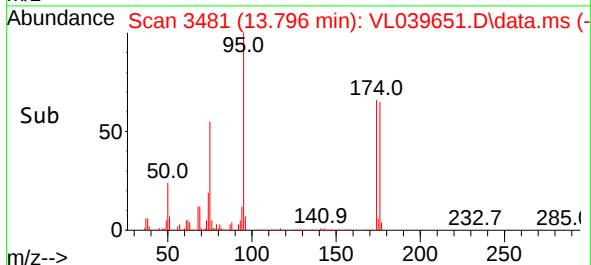
Reviewed By :Krupa Patel 09/28/2022
Supervised By :Mahesh Dadoda 09/28/2022

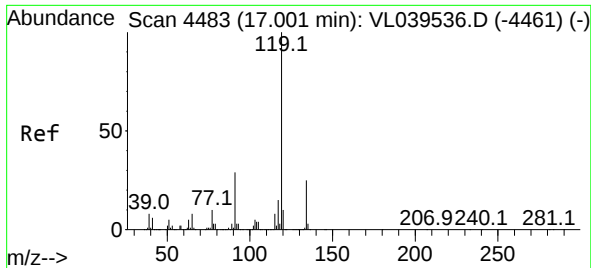


#68
1-Bromo-4-Fluorobenzene
Concen: 10.213 ppbv
RT: 13.796 min Scan# 3481
Delta R.T. 0.020 min
Lab File: VL039651.D
Acq: 22 Sep 2022 1:37



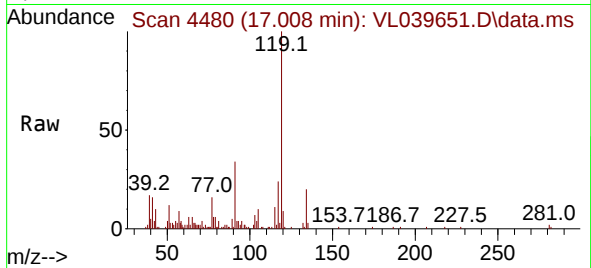
Tgt Ion: 95 Resp: 1883599
Ion Ratio Lower Upper
95 100
174 71.3 55.9 83.9
175 5.5 4.2 6.4





#69
p-Isopropyltoluene
Concen: 0.189 ppbv m
RT: 17.008 min Scan# 4483
Delta R.T. 0.007 min
Lab File: VL039651.D
Acq: 22 Sep 2022 1:37

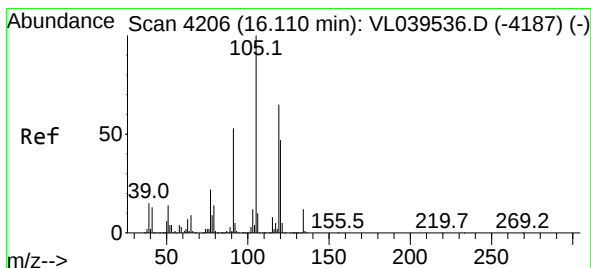
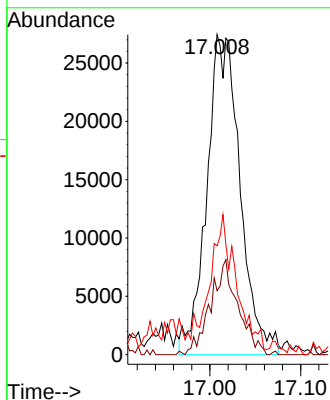
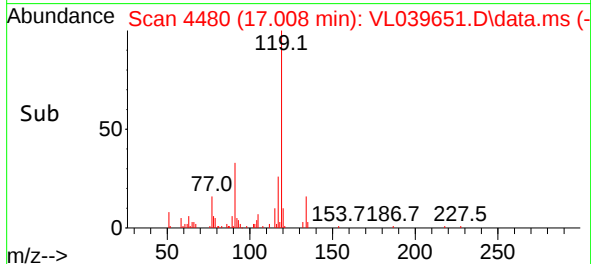
Instrument :
MSVOA_L
ClientSampleId :
COPF8



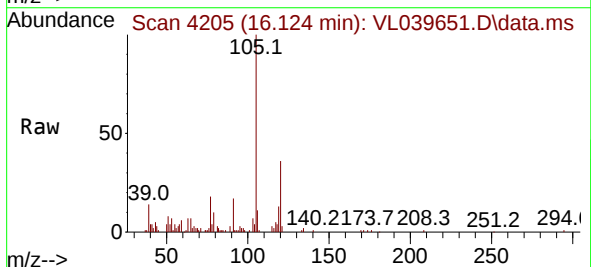
Tgt Ion:119 Resp: 69963
Ion Ratio Lower Upper
119 100
134 24.7 20.3 30.5
91 40.7 22.9 34.3

Manual Integrations
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Reviewed By :Krupa Patel 09/28/2022
Supervised By :Mahesh Dadoda 09/28/2022



#74
1,2,4-Trimethylbenzene
Concen: 0.274 ppbv m
RT: 16.124 min Scan# 4205
Delta R.T. 0.013 min
Lab File: VL039651.D
Acq: 22 Sep 2022 1:37



Tgt Ion:105 Resp: 77638
Ion Ratio Lower Upper
105 100
120 36.0 39.5 59.3#
91 16.8 39.2 58.8#
77 17.8 17.2 25.8

