

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022723\
 Data File : VL040233.D
 Acq On : 27 Feb 2023 13:11
 Operator : SY/MD
 Sample : 01705-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 02212023-EFFLUENT

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/28/2023
 Supervised By : Mahesh Dadoda 02/28/2023

Quant Time: Feb 28 00:18:21 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021523AIR.M

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

QLast Update : Tue Feb 28 00:12:21 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.185	49	849982	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.651	114	2189999	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	1843992	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.783	95	1446474	9.539	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.400%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.716	85	35876	0.226	ppbv	91
3) Chlorodifluoromethane	2.661	51	29380m	0.289	ppbv	
4) Chloromethane	2.806	50	11938	0.187	ppbv	96
9) Propene	2.690	41	38088	0.920	ppbv #	82
10) Heptane	7.577	43	14725m	0.149	ppbv	
11) Trichlorofluoromethane	3.555	101	43445	0.306	ppbv	95
13) Ethanol	3.227	45	199527	52.365	ppbv	93
15) Acetone	3.459	43	703073	6.870	ppbv	96
17) tert-Butyl alcohol	3.886	59	16658m	0.178	ppbv	
19) Isopropyl Alcohol	3.574	45	163529	3.362	ppbv #	93
20) Methylene Chloride	3.925	84	588932	11.055	ppbv	96
26) Hexane	5.208	57	722251	8.844	ppbv #	39
29) Chloroform	5.266	83	30135m	0.215	ppbv	
30) Cyclohexane	6.597	84	8727m	0.136	ppbv	
31) cis-1,2-Dichloroethene	5.073	61	94519	1.218	ppbv	96
32) 1,1,1-Trichloroethane	5.996	97	175025	1.328	ppbv	96
34) 2-Butanone	4.790	43	70923	0.657	ppbv	96
35) Carbon Tetrachloride	6.487	117	7592m	0.059	ppbv	
36) Benzene	6.372	78	52774m	0.310	ppbv	
38) Trichloroethene	7.288	130	480645	5.118	ppbv	97
50) 4-Methyl-2-Pentanone	8.201	43	46797m	0.279	ppbv	
52) Tetrachloroethene	10.619	164	353178	6.636	ppbv	98
53) Toluene	9.224	91	105581	0.578	ppbv	100
59) m/p-Xylene	12.349	91	42326m	0.213	ppbv	

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

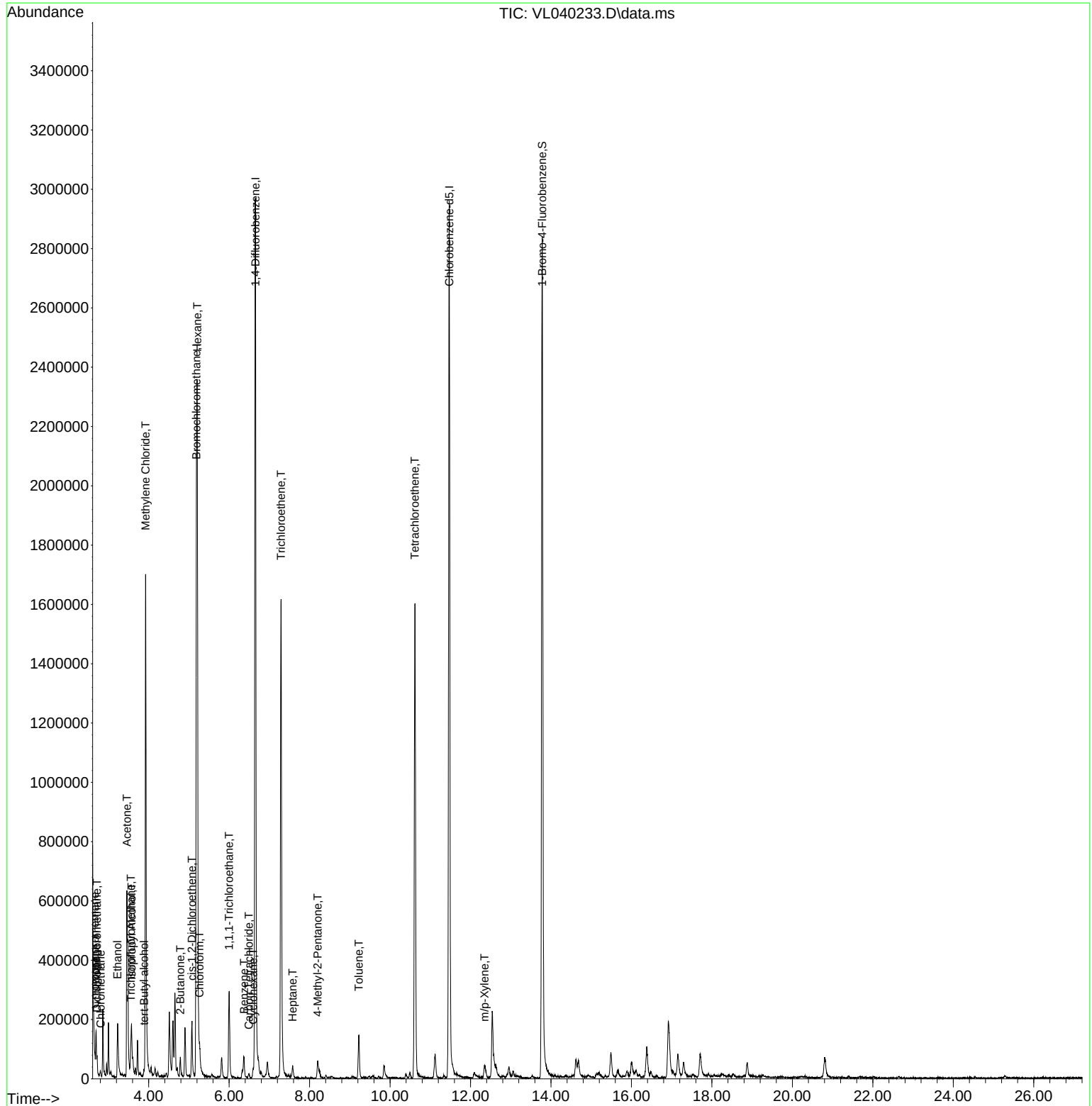
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022723\
Data File : VL040233.D
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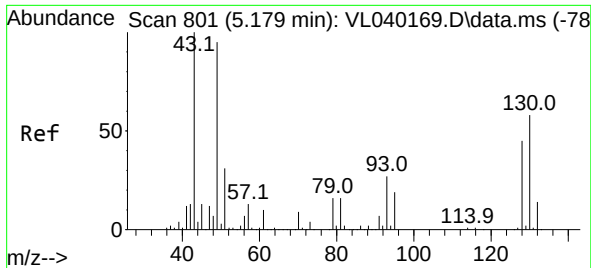
Instrument :
MSVOA_L
ClientSampleId :
02212023-EFFLUENT

Quant Time: Feb 28 00:18:21 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021523AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Feb 28 00:12:21 2023
Response via : Initial Calibration

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 02/28/2023
Supervised By :Mahesh Dadoda 02/28/2023





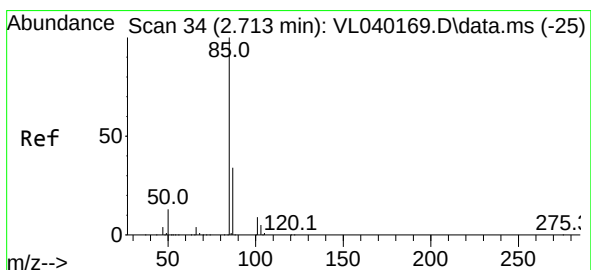
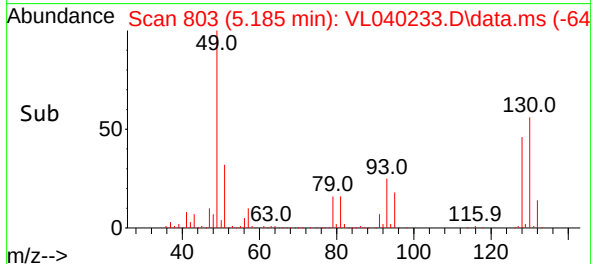
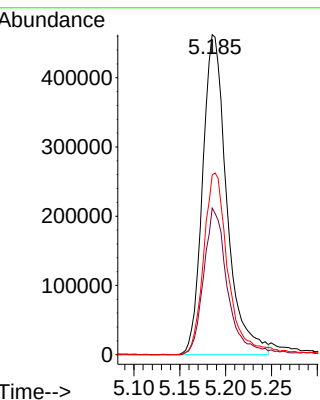
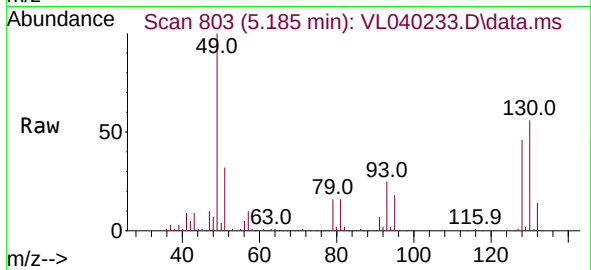
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.185 min Scan# 80
Delta R.T. 0.003 min
Lab File: VL040233.D
Acq: 27 Feb 2023 13:11

Instrument :
MSVOA_L
ClientSampleId :
02212023-EFFLUENT

Tgt Ion: 49 Resp: 84998
Ion Ratio Lower Upper
49 100
128 46.2 24.1 72.3
130 58.9 30.9 92.8

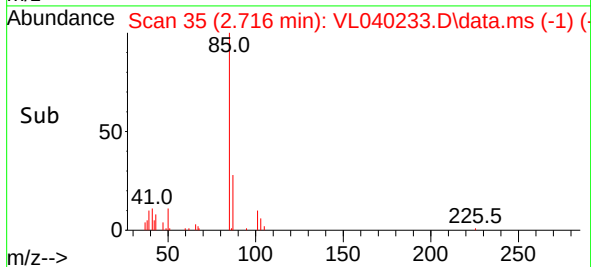
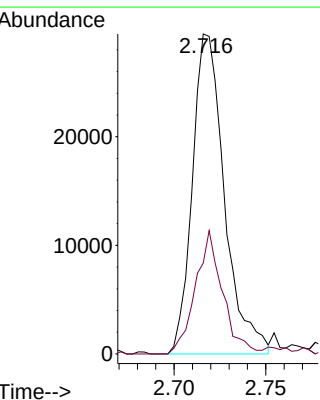
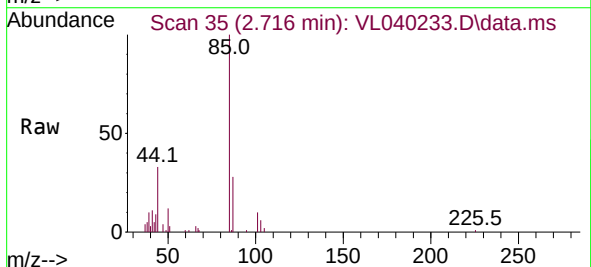
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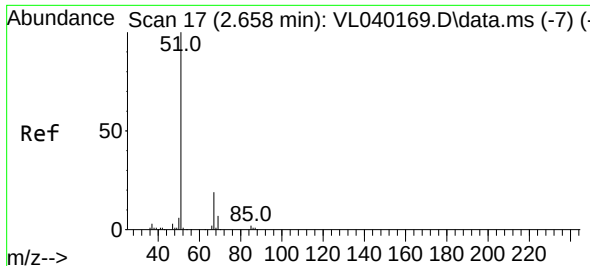
Reviewed By :Semsettin Yesilyurt 02/28/2023
Supervised By :Mahesh Dadoda 02/28/2023



#2
Dichlorodifluoromethane
Concen: 0.226 ppbv
RT: 2.716 min Scan# 35
Delta R.T. 0.000 min
Lab File: VL040233.D
Acq: 27 Feb 2023 13:11

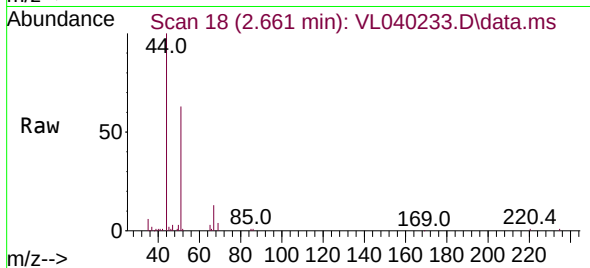
Tgt Ion: 85 Resp: 35876
Ion Ratio Lower Upper
85 100
87 28.4 27.0 40.6





#3
Chlorodifluoromethane
Concen: 0.289 ppbv m
RT: 2.661 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL040233.D
Acq: 27 Feb 2023 13:11

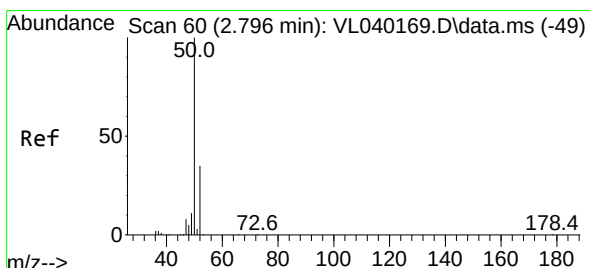
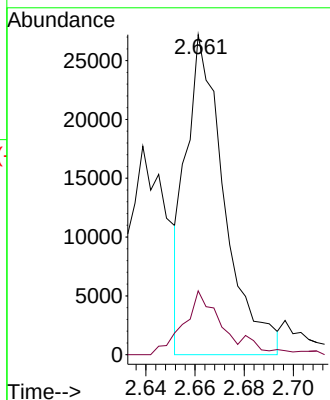
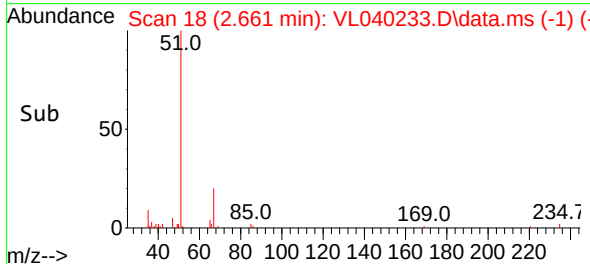
Instrument :
MSVOA_L
ClientSampleId :
02212023-EFFLUENT



Tgt Ion: 51 Resp: 2938
Ion Ratio Lower Upper
51 100
67 22.5 15.4 23.2

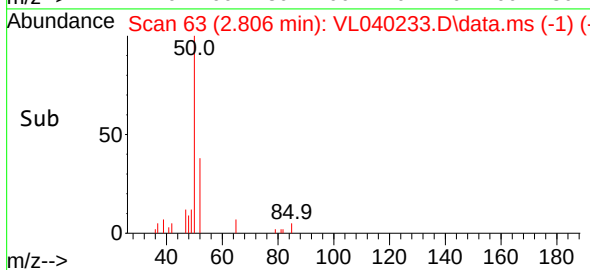
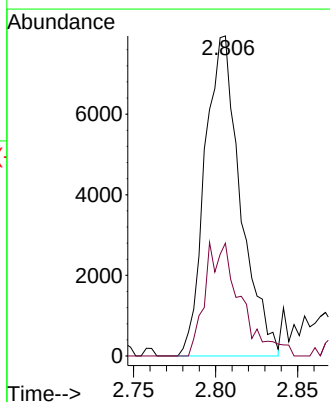
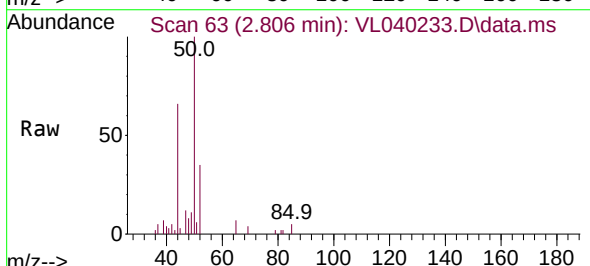
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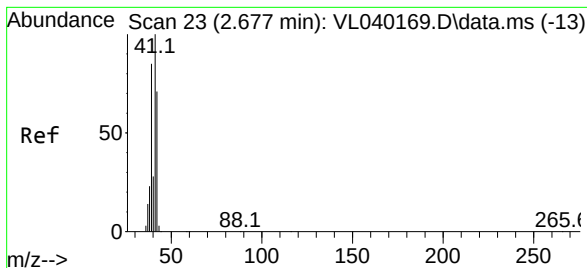
Reviewed By :Semsettin Yesilyurt 02/28/2023
Supervised By :Mahesh Dadoda 02/28/2023



#4
Chloromethane
Concen: 0.187 ppbv
RT: 2.806 min Scan# 63
Delta R.T. 0.010 min
Lab File: VL040233.D
Acq: 27 Feb 2023 13:11

Tgt Ion: 50 Resp: 11938
Ion Ratio Lower Upper
50 100
52 33.1 28.3 42.5





#9

Propene

Concen: 0.920 ppbv

RT: 2.690 min Scan# 21

Delta R.T. 0.010 min

Lab File: VL040233.D

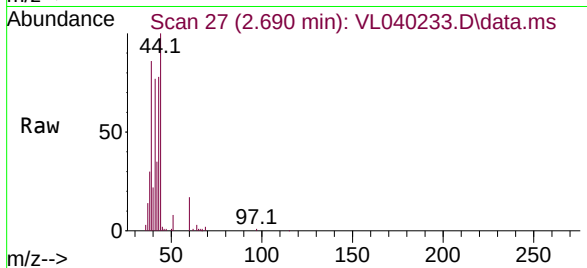
Acq: 27 Feb 2023 13:11

Instrument :

MSVOA_L

ClientSampleId :

02212023-EFFLUENT



Tgt Ion: 41 Resp: 3808

Ion Ratio Lower Upper

41 100

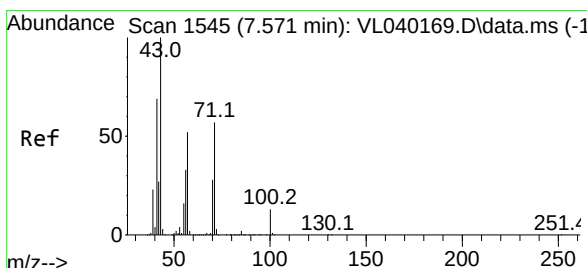
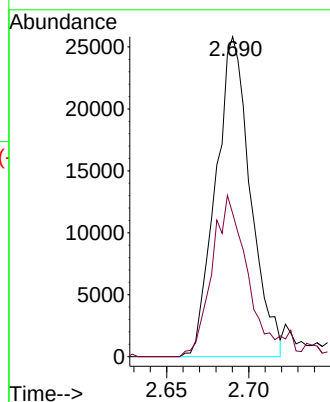
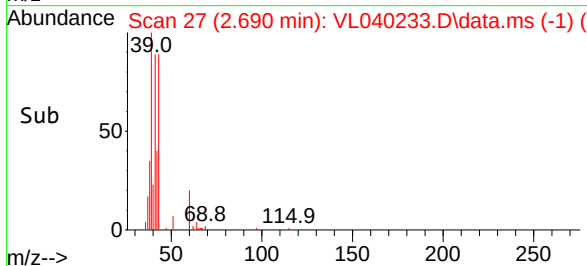
42 56.6 56.9 85.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/28/2023

Supervised By :Mahesh Dadoda 02/28/2023



#10

Heptane

Concen: 0.149 ppbv m

RT: 7.577 min Scan# 1547

Delta R.T. 0.000 min

Lab File: VL040233.D

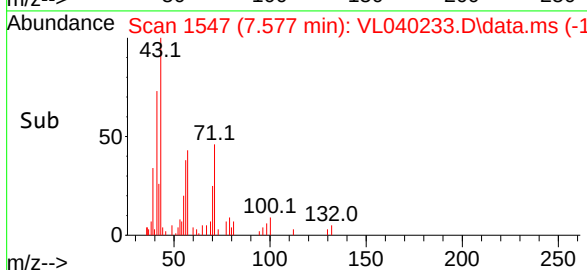
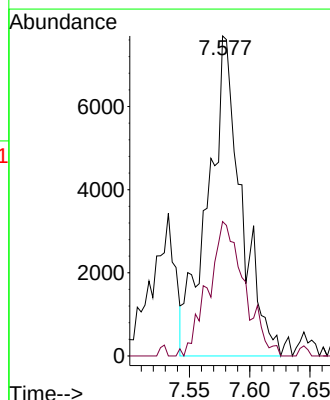
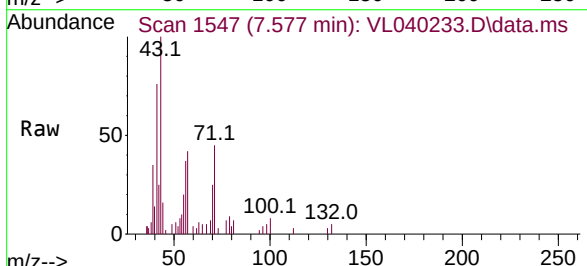
Acq: 27 Feb 2023 13:11

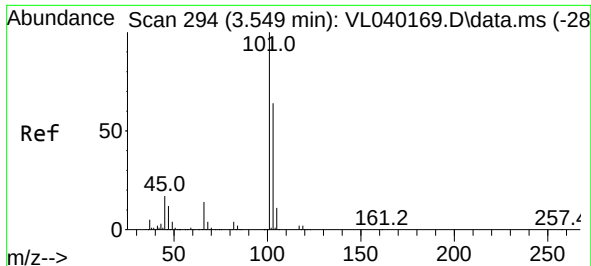
Tgt Ion: 43 Resp: 14725

Ion Ratio Lower Upper

43 100

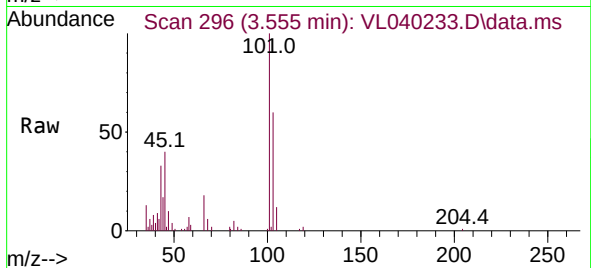
57 46.9 41.4 62.2





#11
Trichlorofluoromethane
Concen: 0.306 ppbv
RT: 3.555 min Scan# 294
Delta R.T. 0.006 min
Lab File: VL040233.D
Acq: 27 Feb 2023 13:11

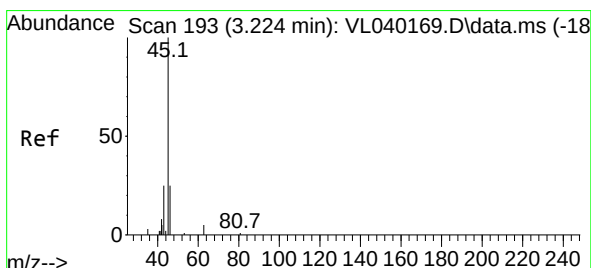
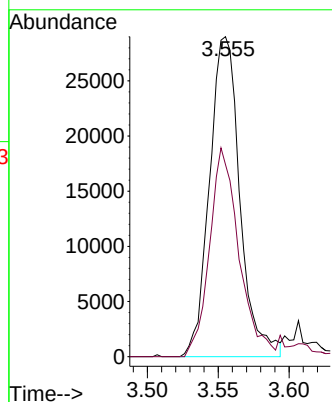
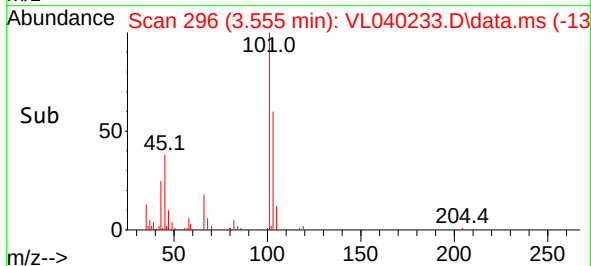
Instrument :
MSVOA_L
ClientSampleId :
02212023-EFFLUENT



Tgt Ion:101 Resp: 4344
Ion Ratio Lower Upper
101 100
103 60.1 51.0 76.6

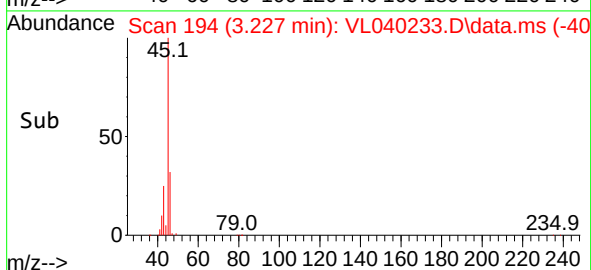
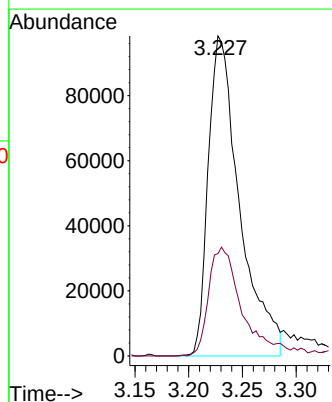
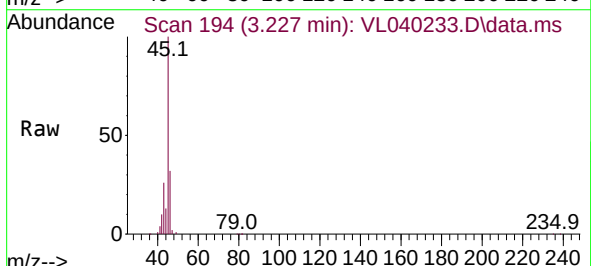
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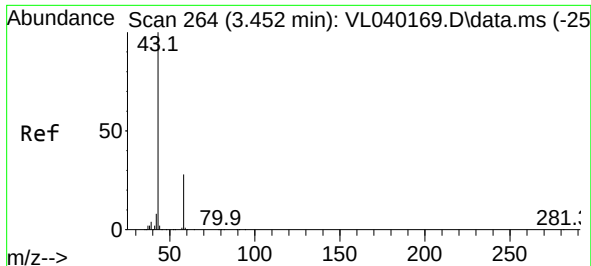
Reviewed By :Semsettin Yesilyurt 02/28/2023
Supervised By :Mahesh Dadoda 02/28/2023



#13
Ethanol
Concen: 52.365 ppbv
RT: 3.227 min Scan# 194
Delta R.T. -0.006 min
Lab File: VL040233.D
Acq: 27 Feb 2023 13:11

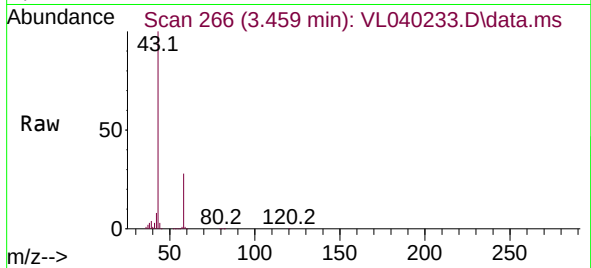
Tgt Ion: 45 Resp: 199527
Ion Ratio Lower Upper
45 100
46 37.4 13.3 53.1





#15
Acetone
Concen: 6.870 ppbv
RT: 3.459 min Scan# 20
Delta R.T. 0.003 min
Lab File: VL040233.D
Acq: 27 Feb 2023 13:11

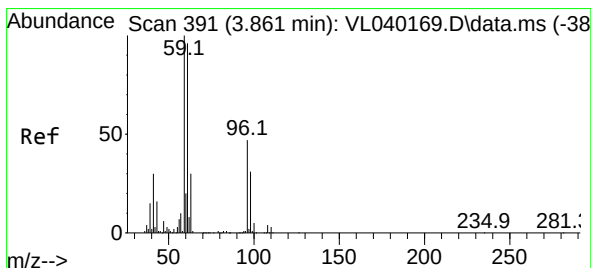
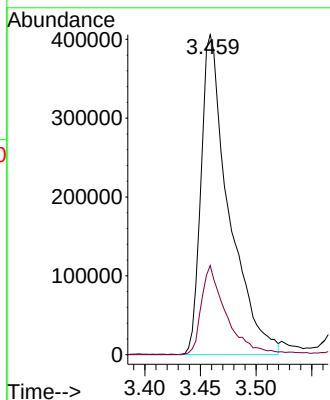
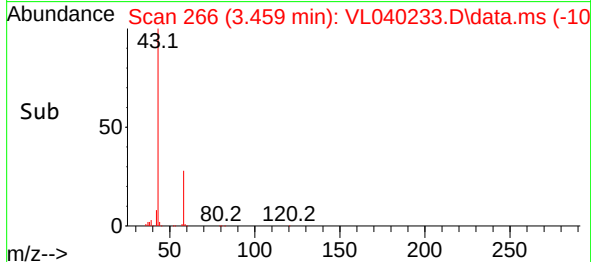
Instrument :
MSVOA_L
ClientSampleId :
02212023-EFFLUENT



Tgt Ion: 43 Resp: 70307
Ion Ratio Lower Upper
43 100
58 25.7 22.4 33.6

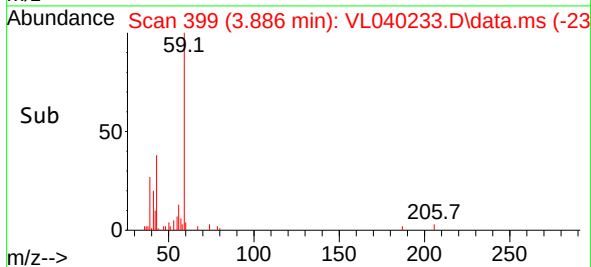
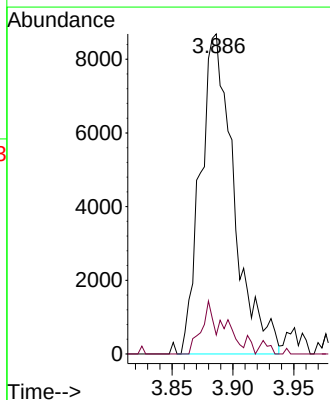
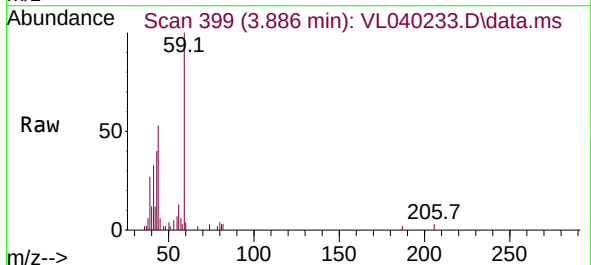
Manual Integrations
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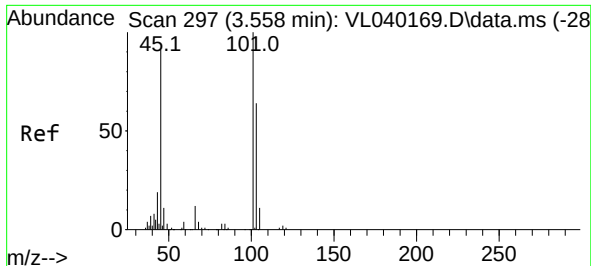
Reviewed By :Semsettin Yesilyurt 02/28/2023
Supervised By :Mahesh Dadoda 02/28/2023



#17
tert-Butyl alcohol
Concen: 0.178 ppbv m
RT: 3.886 min Scan# 399
Delta R.T. 0.023 min
Lab File: VL040233.D
Acq: 27 Feb 2023 13:11

Tgt Ion: 59 Resp: 16658
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#





#19

Isopropyl Alcohol

Concen: 3.362 ppbv

RT: 3.574 min Scan# 302

Delta R.T. 0.010 min

Lab File: VL040233.D

Acq: 27 Feb 2023 13:11

Instrument :

MSVOA_L

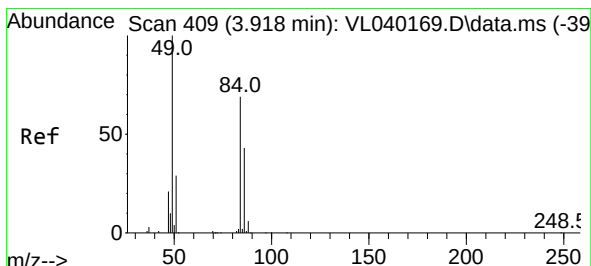
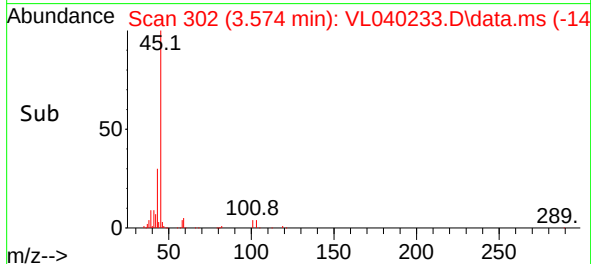
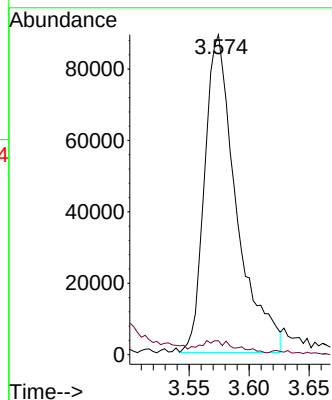
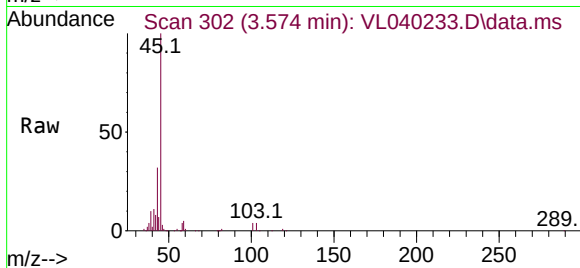
ClientSampleId :

02212023-EFFLUENT

Tgt Ion: 45 Resp: 163529
 Ion Ratio Lower Upper
 45 100
 58 5.6 2.6 3.8

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 02/28/2023
 Supervised By :Mahesh Dadoda 02/28/2023



#20

Methylene Chloride

Concen: 11.055 ppbv

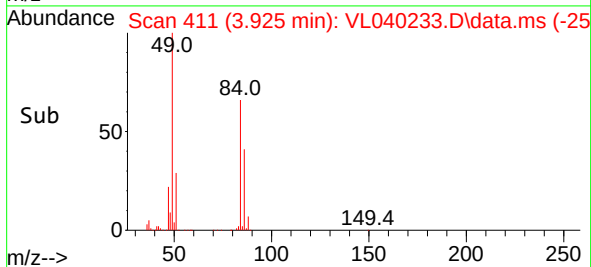
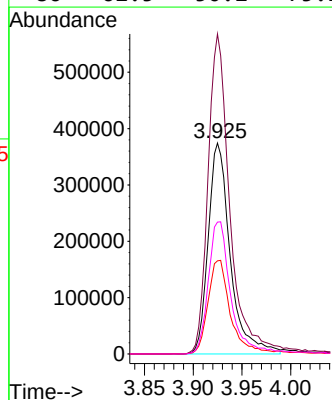
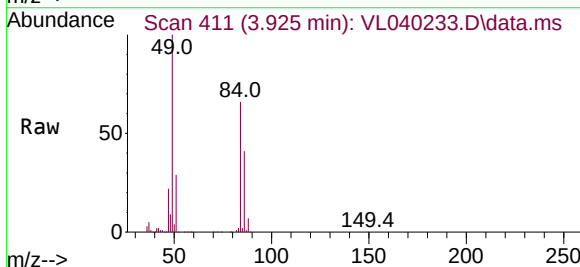
RT: 3.925 min Scan# 411

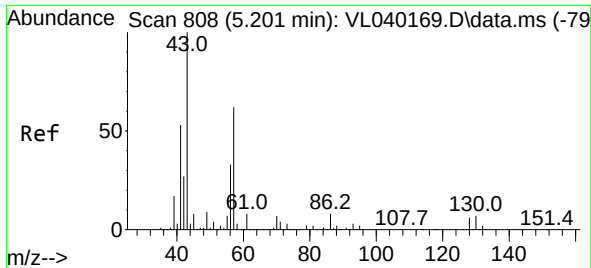
Delta R.T. 0.003 min

Lab File: VL040233.D

Acq: 27 Feb 2023 13:11

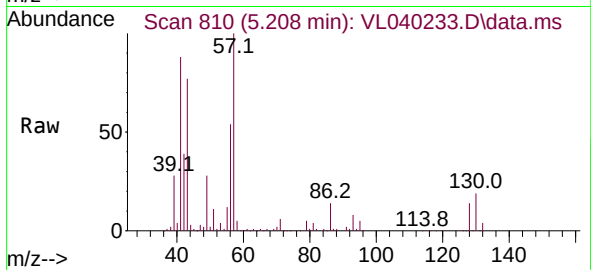
Tgt Ion: 84 Resp: 588932
 Ion Ratio Lower Upper
 84 100
 49 151.7 115.5 173.3
 51 44.1 33.1 49.7
 86 62.5 50.2 75.2





#26
Hexane
Concen: 8.844 ppbv
RT: 5.208 min Scan# 810
Delta R.T. 0.003 min
Lab File: VL040233.D
Acq: 27 Feb 2023 13:11

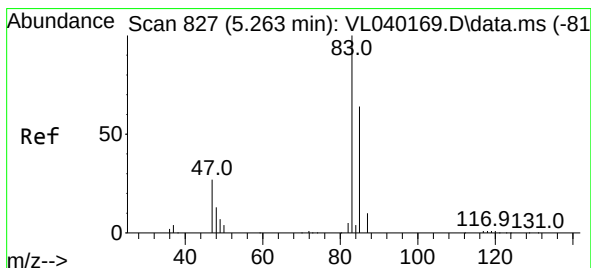
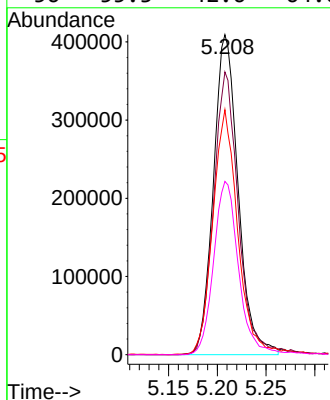
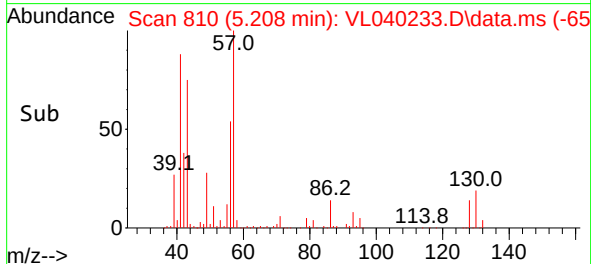
Instrument :
MSVOA_L
ClientSampleId :
02212023-EFFLUENT



Tgt Ion: 57 Resp: 72225
Ion Ratio Lower Upper
57 100
41 89.7 74.3 111.5
43 78.6 193.0 289.4
56 55.3 42.6 64.0

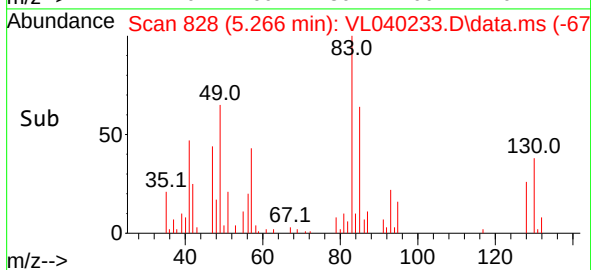
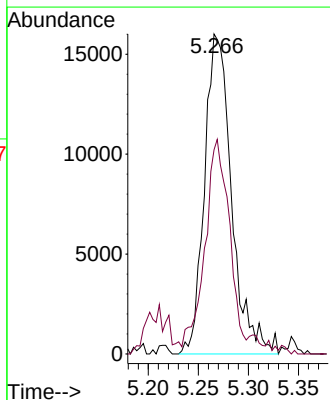
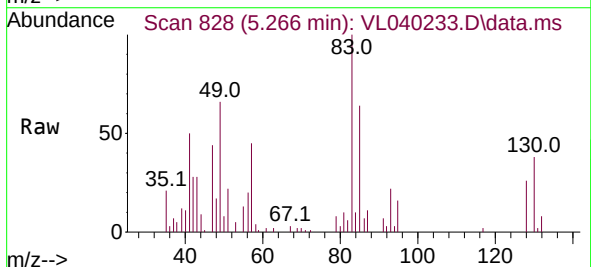
Manual Integrations
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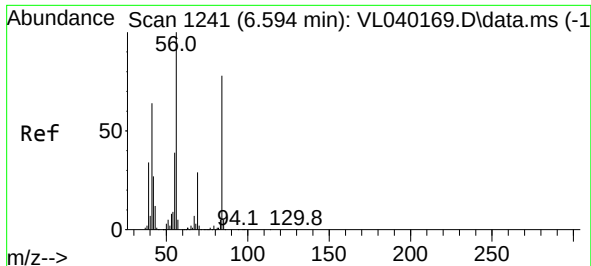
Reviewed By :Semsettin Yesilyurt 02/28/2023
Supervised By :Mahesh Dadoda 02/28/2023



#29
Chloroform
Concen: 0.215 ppbv m
RT: 5.266 min Scan# 828
Delta R.T. 0.000 min
Lab File: VL040233.D
Acq: 27 Feb 2023 13:11

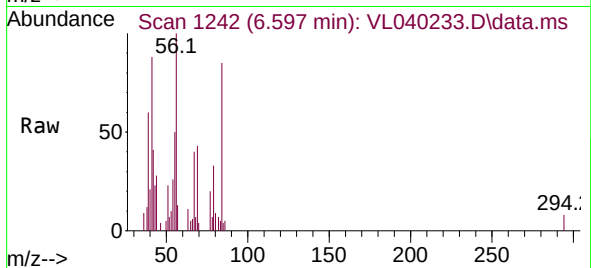
Tgt Ion: 83 Resp: 30135
Ion Ratio Lower Upper
83 100
85 63.8 51.5 77.3





#30
Cyclohexane
Concen: 0.136 ppbv m
RT: 6.597 min Scan# 1241
Delta R.T. 0.003 min
Lab File: VL040233.D
Acq: 27 Feb 2023 13:11

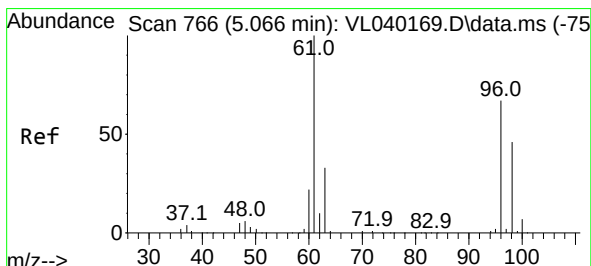
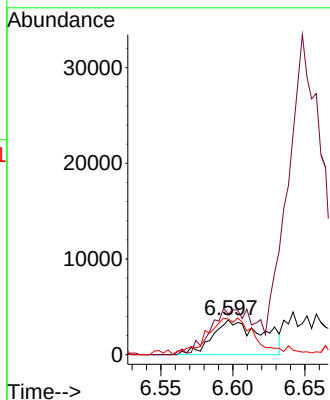
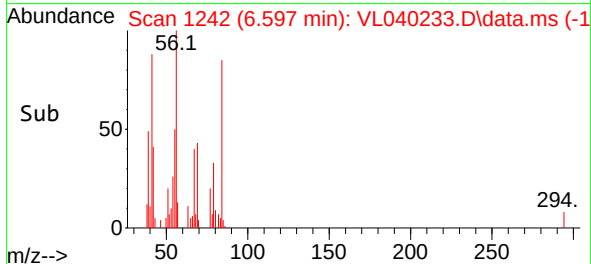
Instrument :
MSVOA_L
ClientSampleId :
02212023-EFFLUENT



Tgt Ion: 84 Resp: 872
Ion Ratio Lower Upper
84 100
56 0.0 109.9 164.9
41 0.0 67.8 101.6

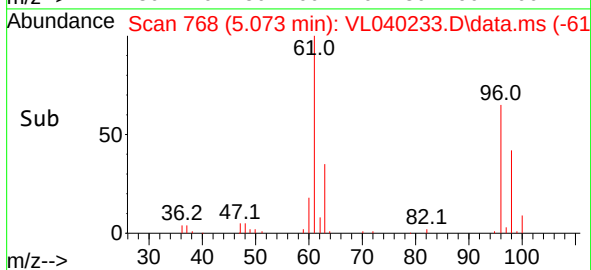
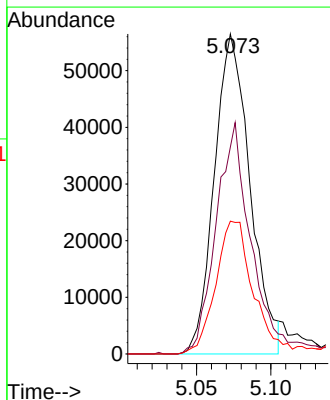
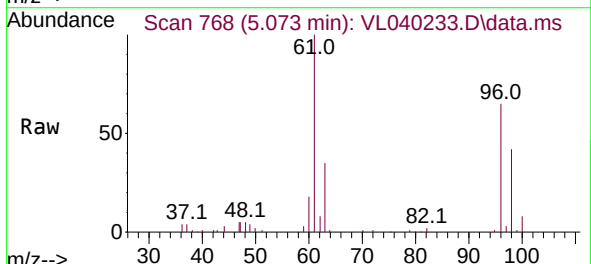
Manual Integrations
APPROVED

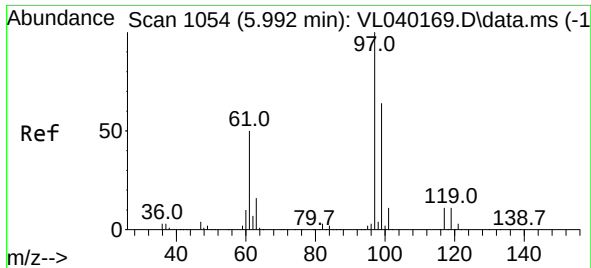
Reviewed By :Semsettin Yesilyurt 02/28/2023
Supervised By :Mahesh Dadoda 02/28/2023



#31
cis-1,2-Dichloroethene
Concen: 1.218 ppbv
RT: 5.073 min Scan# 768
Delta R.T. 0.003 min
Lab File: VL040233.D
Acq: 27 Feb 2023 13:11

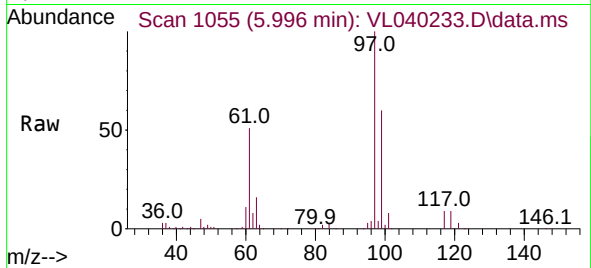
Tgt Ion: 61 Resp: 94519
Ion Ratio Lower Upper
61 100
96 64.6 53.7 80.5
98 41.5 36.4 54.6





#32
1,1,1-Trichloroethane
Concen: 1.328 ppbv
RT: 5.996 min Scan# 1054
Delta R.T. 0.000 min
Lab File: VL040233.D
Acq: 27 Feb 2023 13:11

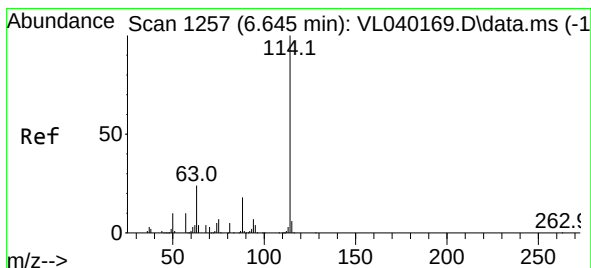
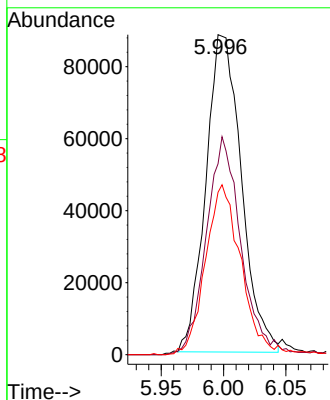
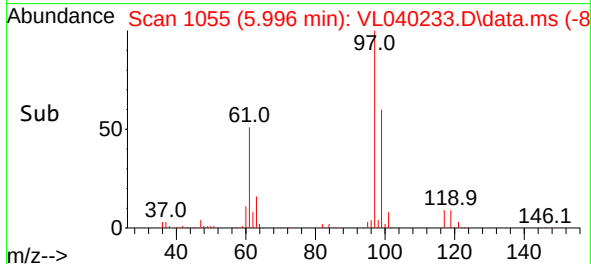
Instrument :
MSVOA_L
ClientSampleId :
02212023-EFFLUENT



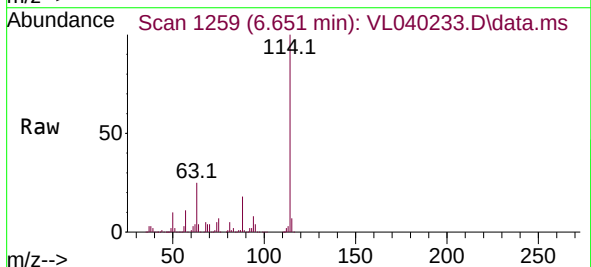
Tgt Ion: 97 Resp: 175025
Ion Ratio Lower Upper
97 100
99 67.4 51.5 77.3
61 54.1 40.6 60.8

Manual Integrations
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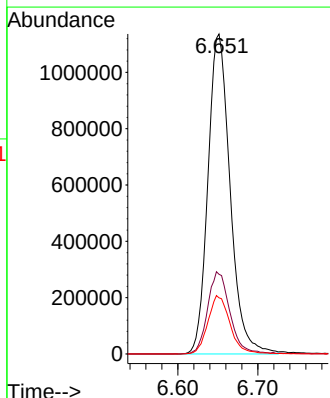
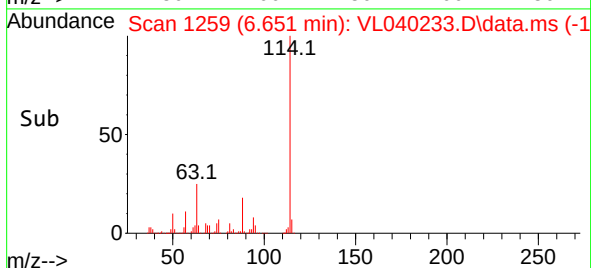
Reviewed By :Semsettin Yesilyurt 02/28/2023
Supervised By :Mahesh Dadoda 02/28/2023

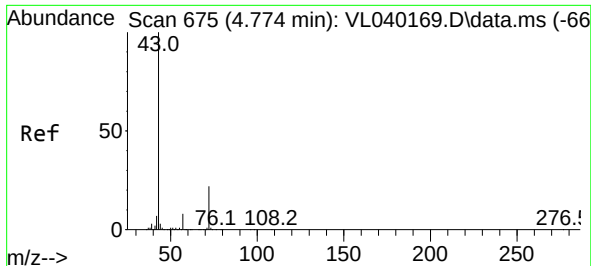


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.651 min Scan# 1259
Delta R.T. 0.003 min
Lab File: VL040233.D
Acq: 27 Feb 2023 13:11



Tgt Ion:114 Resp: 2189999
Ion Ratio Lower Upper
114 100
63 26.1 20.4 30.6
88 18.3 14.3 21.5





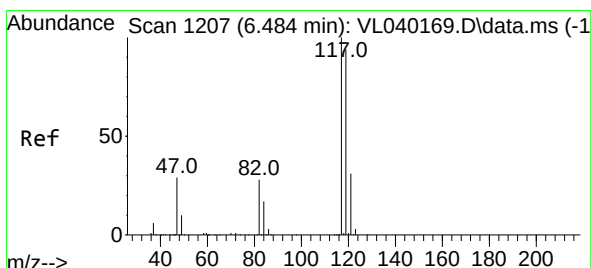
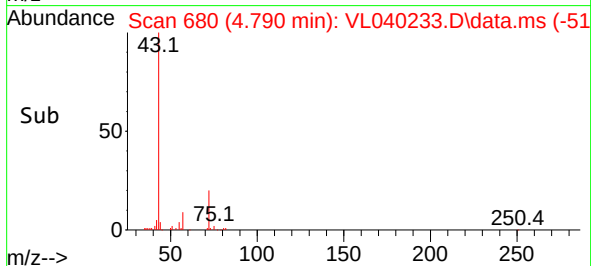
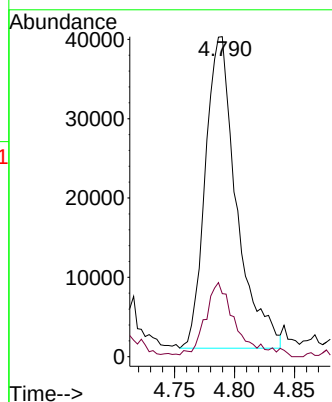
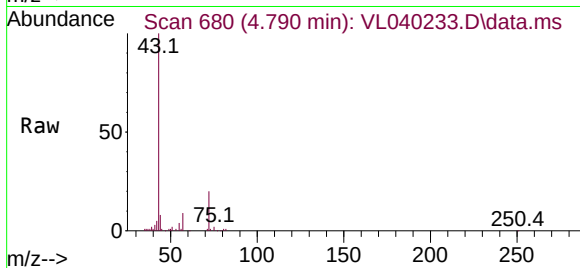
#34
2-Butanone
Concen: 0.657 ppbv
RT: 4.790 min Scan# 61
Delta R.T. 0.016 min
Lab File: VL040233.D
Acq: 27 Feb 2023 13:11

Instrument :
MSVOA_L
ClientSampleId :
02212023-EFFLUENT

Tgt Ion: 43 Resp: 7092
Ion Ratio Lower Upper
43 100
72 24.2 17.8 26.8

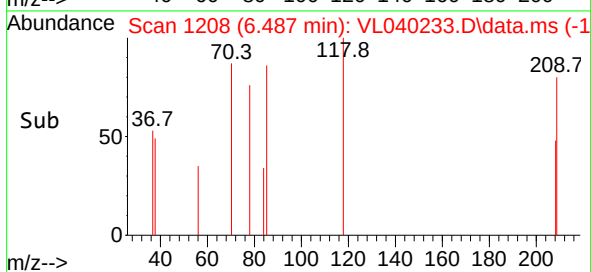
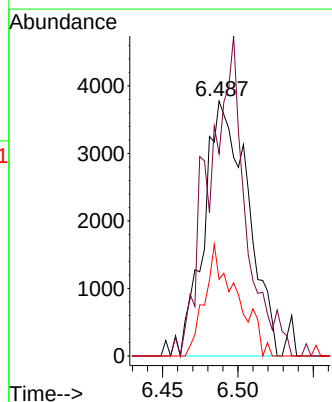
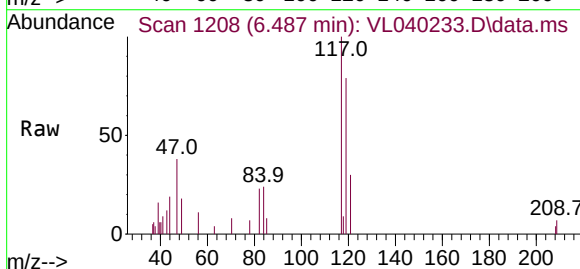
Manual Integrations
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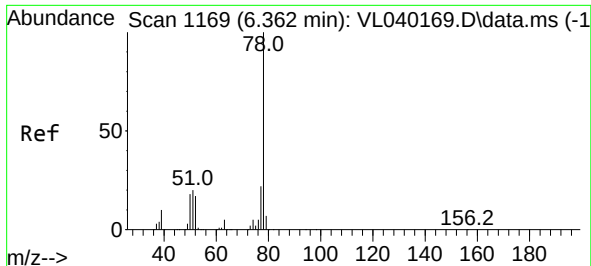
Reviewed By :Semsettin Yesilyurt 02/28/2023
Supervised By :Mahesh Dadoda 02/28/2023



#35
Carbon Tetrachloride
Concen: 0.059 ppbv m
RT: 6.487 min Scan# 1208
Delta R.T. 0.000 min
Lab File: VL040233.D
Acq: 27 Feb 2023 13:11

Tgt Ion:117 Resp: 7592
Ion Ratio Lower Upper
117 100
119 79.5 75.0 112.6
121 30.1 25.0 37.4





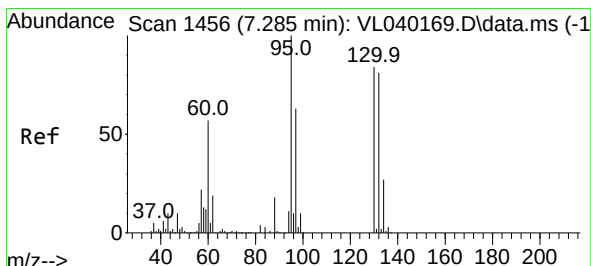
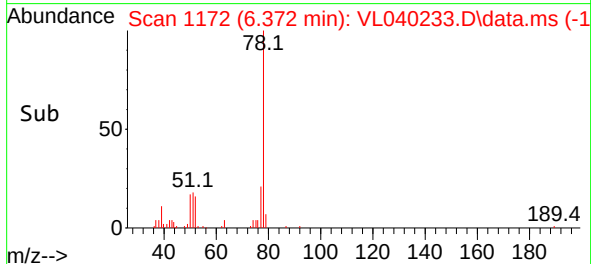
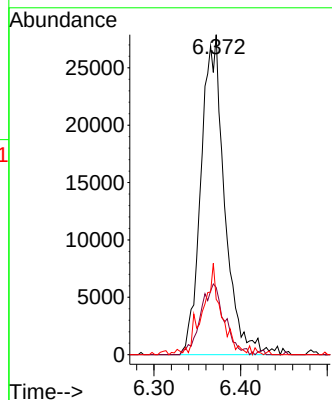
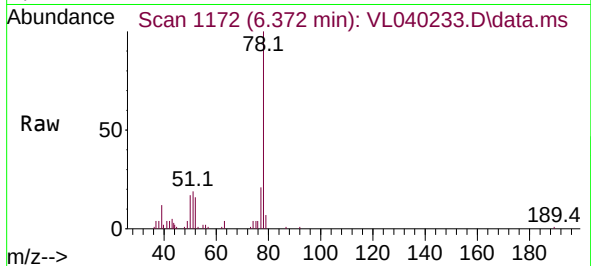
#36
Benzene
Concen: 0.310 ppbv m
RT: 6.372 min Scan# 1169
Delta R.T. 0.006 min
Lab File: VL040233.D
Acq: 27 Feb 2023 13:11

Instrument :
MSVOA_L
ClientSampleId :
02212023-EFFLUENT

Tgt Ion: 78 Resp: 52774
Ion Ratio Lower Upper
78 100
77 21.0 17.5 26.3
50 17.3 14.6 22.0

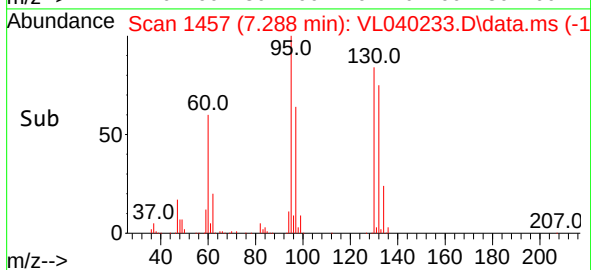
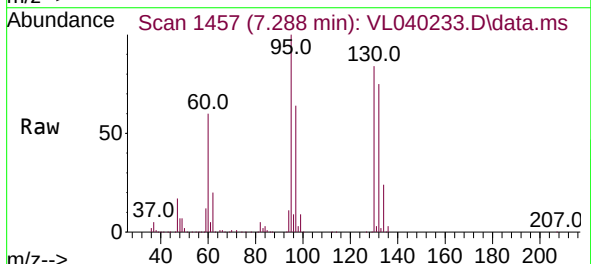
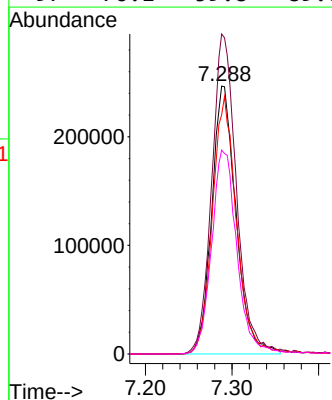
Manual Integrations
APPROVED

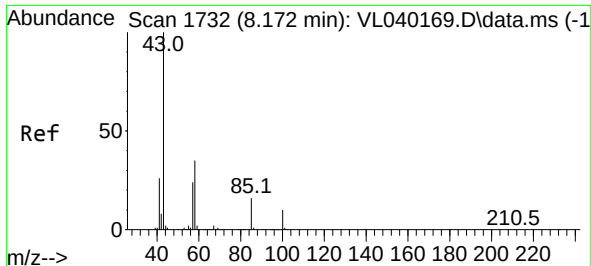
Reviewed By :Semsettin Yesilyurt 02/28/2023
Supervised By :Mahesh Dadoda 02/28/2023



#38
Trichloroethene
Concen: 5.118 ppbv
RT: 7.288 min Scan# 1457
Delta R.T. 0.000 min
Lab File: VL040233.D
Acq: 27 Feb 2023 13:11

Tgt Ion:130 Resp: 480645
Ion Ratio Lower Upper
130 100
95 119.5 94.7 142.1
132 89.1 76.4 114.6
97 76.1 59.8 89.6





#50

4-Methyl-2-Pentanone

Concen: 0.279 ppbv m

RT: 8.201 min Scan# 1741

Delta R.T. 0.026 min

Lab File: VL040233.D

Acq: 27 Feb 2023 13:11

Instrument :

MSVOA_L

ClientSampleId :

02212023-EFFLUENT

Tgt Ion: 43 Resp: 4679

Ion Ratio Lower Upper

43 100

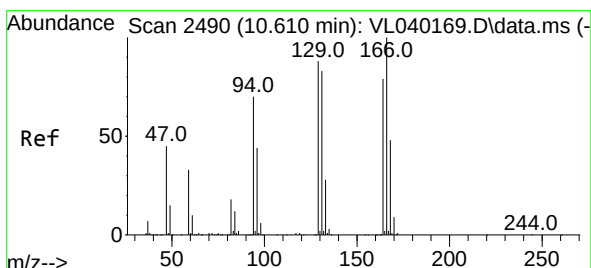
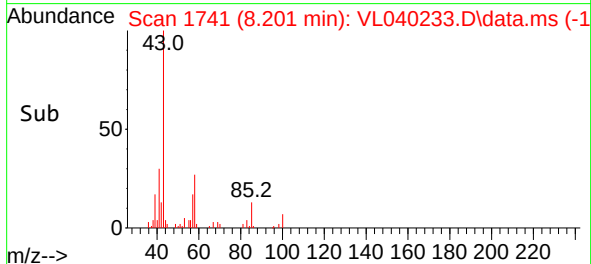
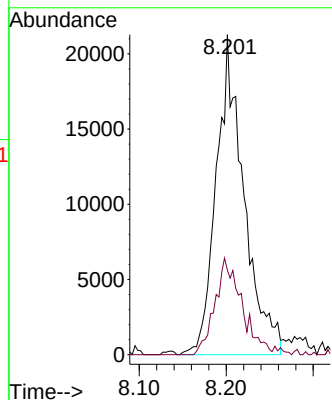
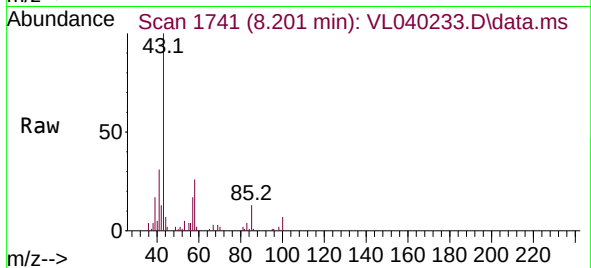
58 0.0 29.2 43.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/28/2023

Supervised By :Mahesh Dadoda 02/28/2023



#52

Tetrachloroethene

Concen: 6.636 ppbv

RT: 10.619 min Scan# 2493

Delta R.T. 0.000 min

Lab File: VL040233.D

Acq: 27 Feb 2023 13:11

Tgt Ion:164 Resp: 353178

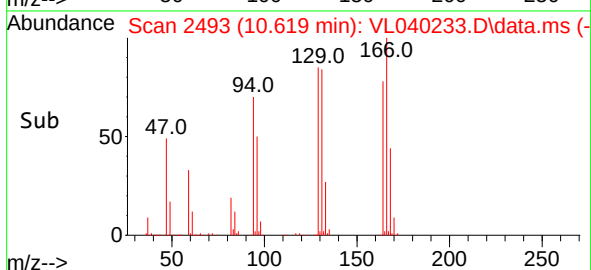
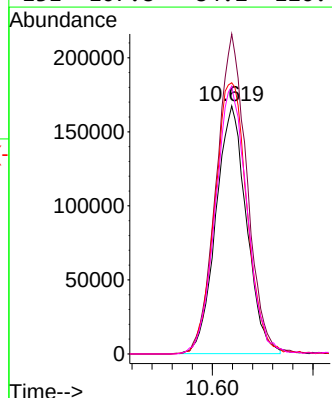
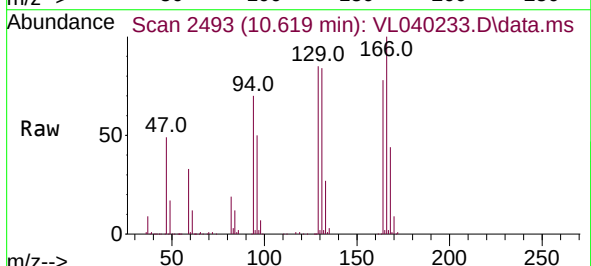
Ion Ratio Lower Upper

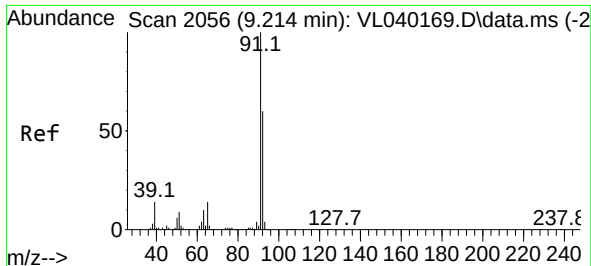
164 100

166 129.0 101.5 152.3

129 109.1 89.0 133.4

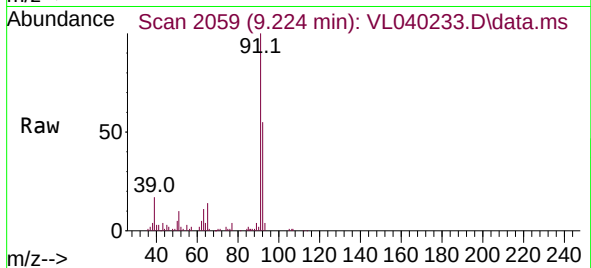
131 107.8 84.2 126.4





#53
Toluene
Concen: 0.578 ppbv
RT: 9.224 min Scan# 2056
Delta R.T. 0.006 min
Lab File: VL040233.D
Acq: 27 Feb 2023 13:11

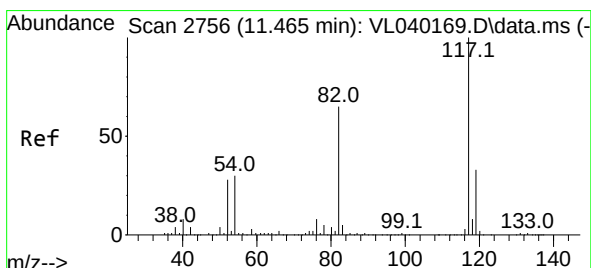
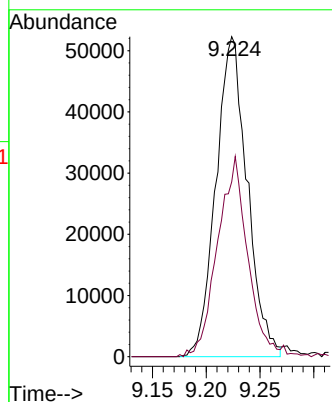
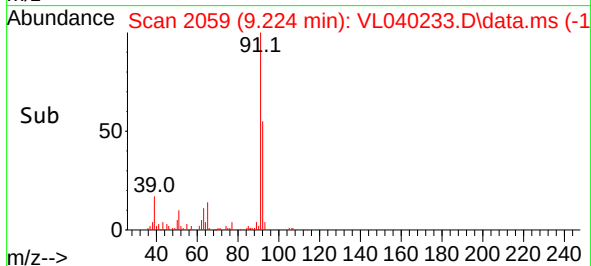
Instrument :
MSVOA_L
ClientSampleId :
02212023-EFFLUENT



Tgt Ion: 91 Resp: 10558
Ion Ratio Lower Upper
91 100
92 61.1 48.9 73.3

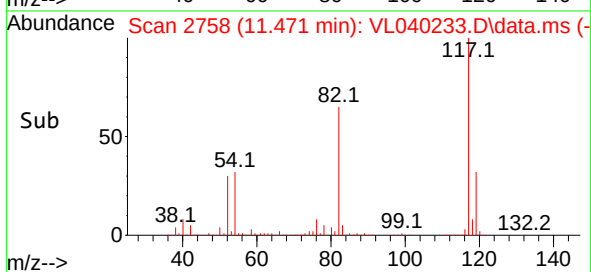
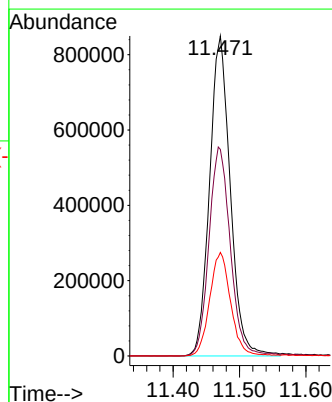
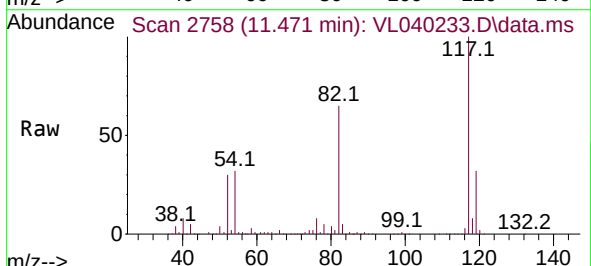
Manual Integrations
APPROVED

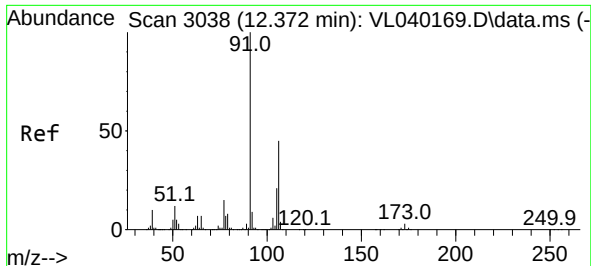
Reviewed By :Semsettin Yesilyurt 02/28/2023
Supervised By :Mahesh Dadoda 02/28/2023



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.471 min Scan# 2758
Delta R.T. 0.003 min
Lab File: VL040233.D
Acq: 27 Feb 2023 13:11

Tgt Ion:117 Resp: 1843992
Ion Ratio Lower Upper
117 100
82 68.1 53.3 79.9
119 32.8 24.6 37.0





#59

m/p-Xylene

Concen: 0.213 ppbv m

RT: 12.349 min Scan# 3031

Delta R.T. -0.026 min

Lab File: VL040233.D

Acq: 27 Feb 2023 13:11

Instrument :

MSVOA_L

ClientSampleId :

02212023-EFFLUENT

Tgt Ion: 91 Resp: 42320

Ion Ratio Lower Upper

91 100

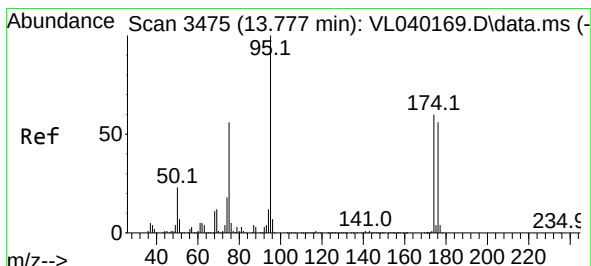
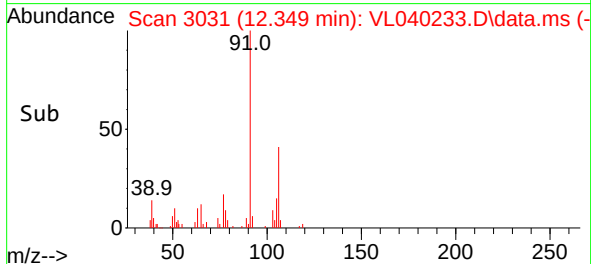
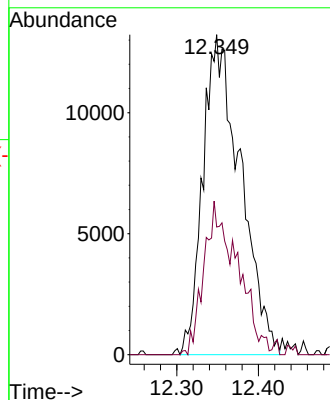
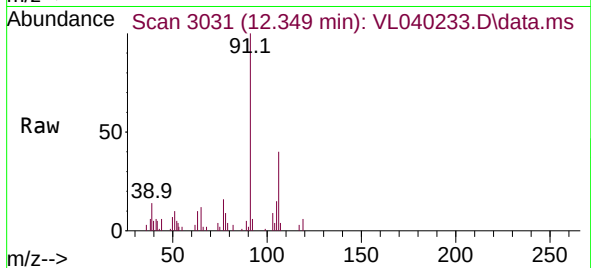
106 0.0 34.6 51.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/28/2023

Supervised By :Mahesh Dadoda 02/28/2023



#68

1-Bromo-4-Fluorobenzene

Concen: 9.539 ppbv

RT: 13.783 min Scan# 3477

Delta R.T. 0.006 min

Lab File: VL040233.D

Acq: 27 Feb 2023 13:11

Tgt Ion: 95 Resp: 1446474

Ion Ratio Lower Upper

95 100

174 58.3 48.2 72.2

175 4.1 3.4 5.2

