

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL042021\
 Data File : VL036826.D
 Acq On : 20 Apr 2021 17:57
 Operator : SY/AP
 Sample : M2096-01DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 OA1DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2021
 Supervised By :Mahesh Dadoda 04/21/2021

Quant Time: Apr 21 12:36:34 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1253791	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	3144618	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2549245	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	1848610	9.10	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.05	85	47274	0.231 ppbv	93
3) Chlorodifluoromethane	2.99	51	78726	0.336 ppbv #	91
4) Chloromethane	3.15	50	40814m	0.493 ppbv	
9) Propene	3.02	41	81082m	1.086 ppbv	
10) Heptane	8.14	43	27103m	0.142 ppbv	
11) Trichlorofluoromethane	3.96	101	41974	0.201 ppbv #	83
13) Ethanol	3.62	45	413356m	46.481 ppbv	
15) Acetone	3.87	43	535472m	4.339 ppbv	
19) Isopropyl Alcohol	4.00	45	77067m	1.135 ppbv	
20) Methylene Chloride	4.35	84	88108	1.525 ppbv	96
26) Hexane	5.70	57	133022	0.977 ppbv #	57
30) Cyclohexane	7.18	84	33787m	0.306 ppbv	
34) 2-Butanone	5.26	43	178871	1.165 ppbv	96
35) Carbon Tetrachloride	7.03	117	17799m	0.074 ppbv	
36) Benzene	6.90	78	68492	0.236 ppbv	97
44) 2,2,4-Trimethylpentane	7.88	57	68158m	0.134 ppbv	
52) Tetrachloroethene	11.24	164	4255m	0.040 ppbv	
53) Toluene	9.82	91	128235	0.415 ppbv	100
58) Ethyl Benzene	12.73	91	37355m	0.101 ppbv	
59) m/p-Xylene	12.99	91	85926m	0.266 ppbv	

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

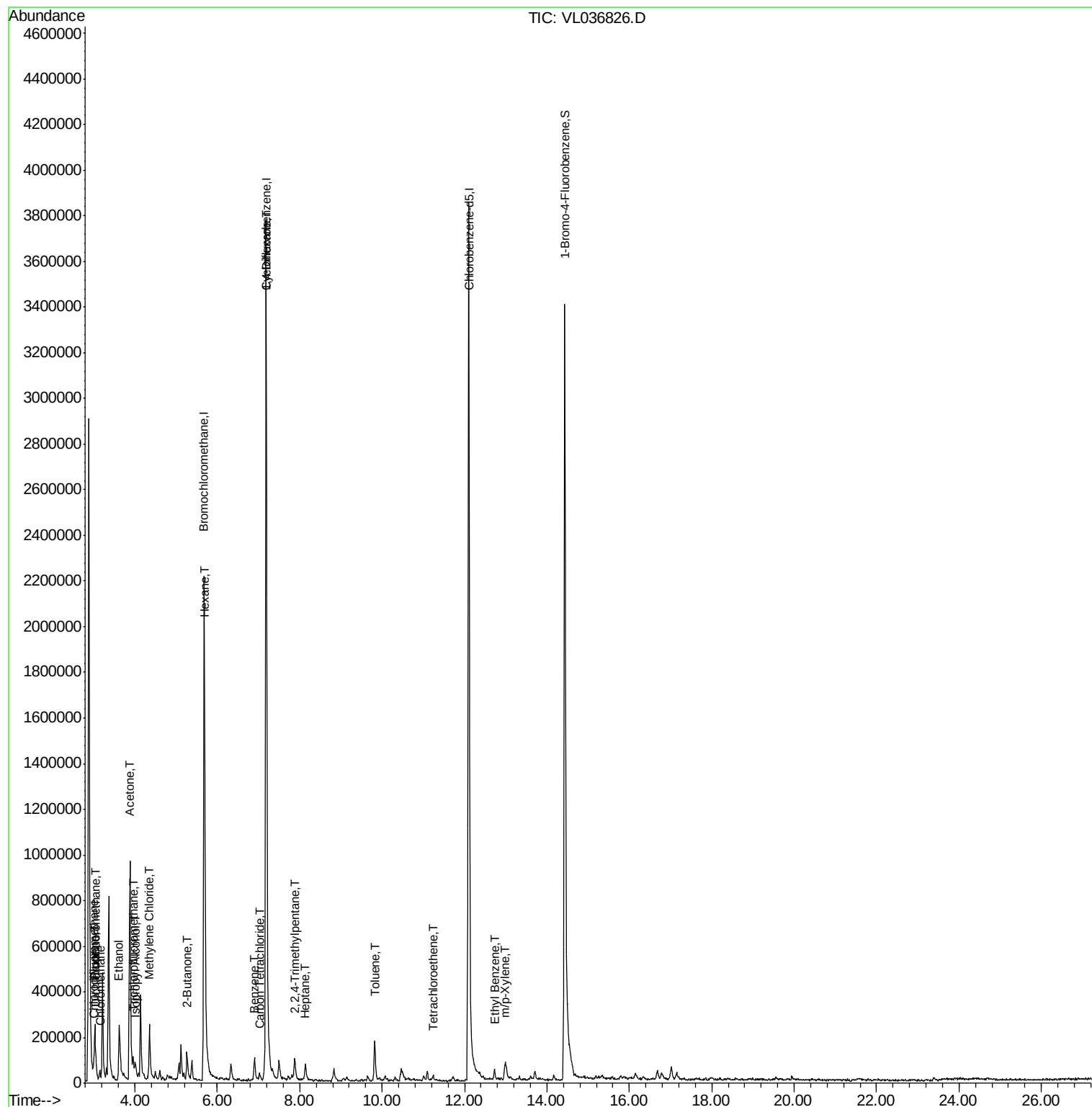
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL042021\
Data File : VL036826.D
Acq On : 20 Apr 2021 17:57
Operator : SY/AP
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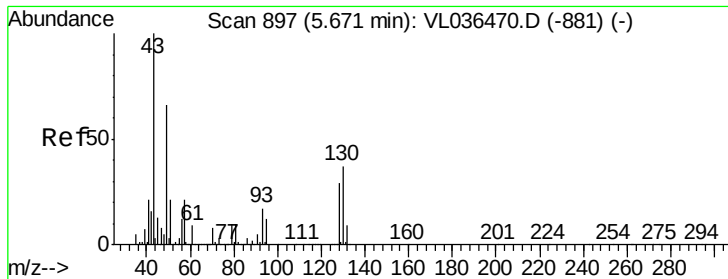
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

Quant Time: Apr 21 12:36:34 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 20 Apr 2021 17:57

Tot Ion:

Ion Ratio

49 100

128 46.

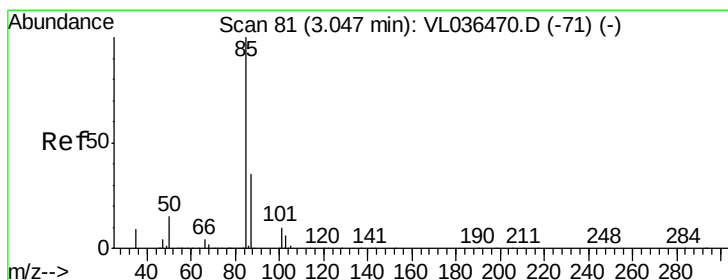
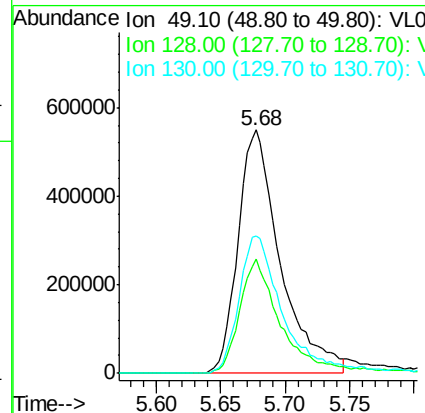
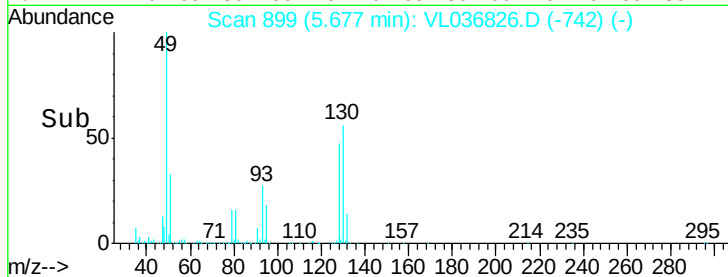
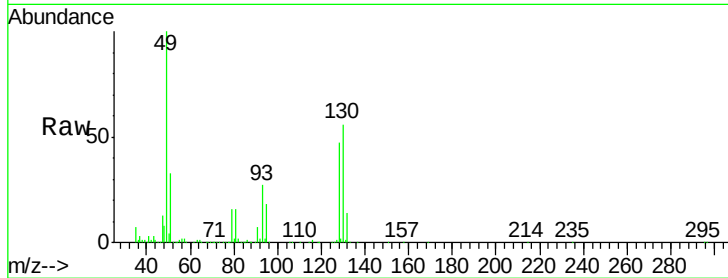
130 60.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/21/2021

Supervised By :Mahesh Dadoda 04/21/2021



#2

Dichlorodifluoromethane

Concen: 0.231 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.01 min

Lab File: VL036826.D

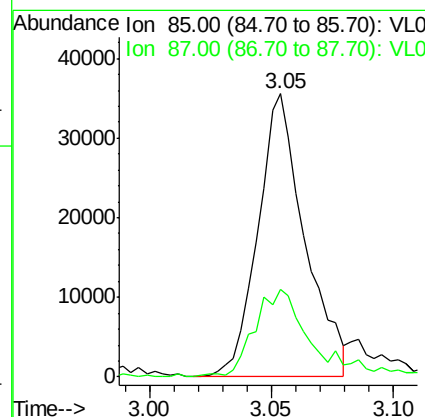
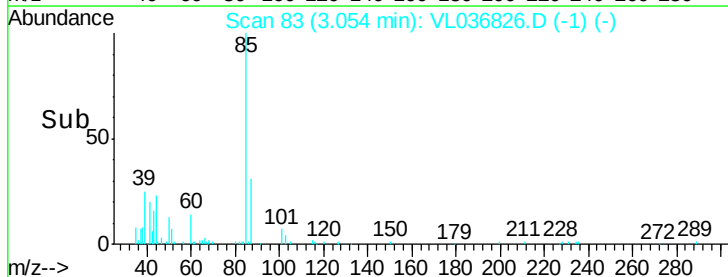
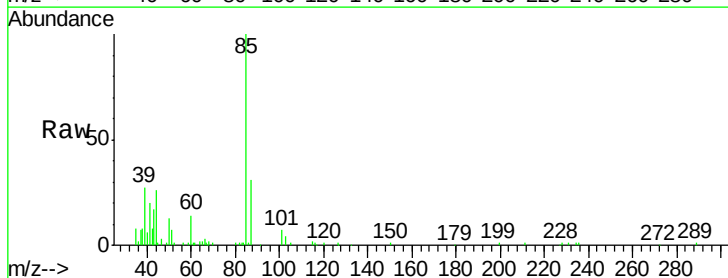
Acq: 20 Apr 2021 17:57

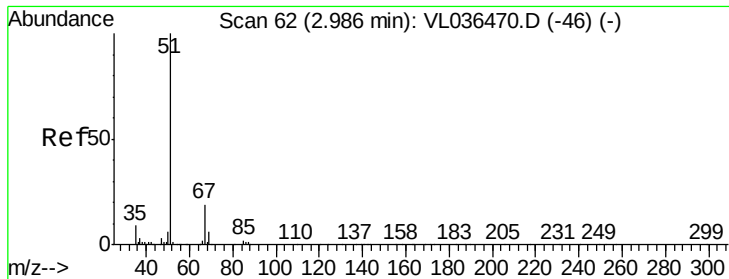
Tgt Ion: 85 Resp: 47274

Ion Ratio Lower Upper

85 100

87 30.9 27.8 41.8





#3

Chlorodifluoromethane

Concen: 0.336 ppbv

RT: 2.99 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 20 Apr 2021 17:57

Tot Ion:

Ion Ratio

51 100

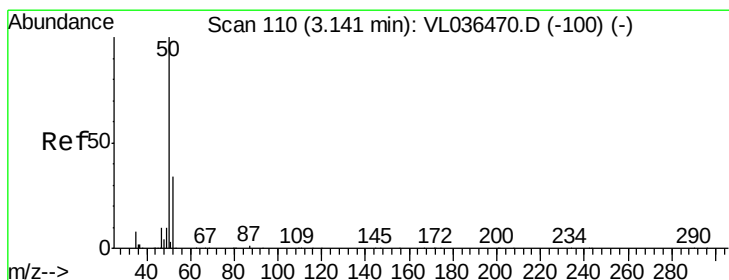
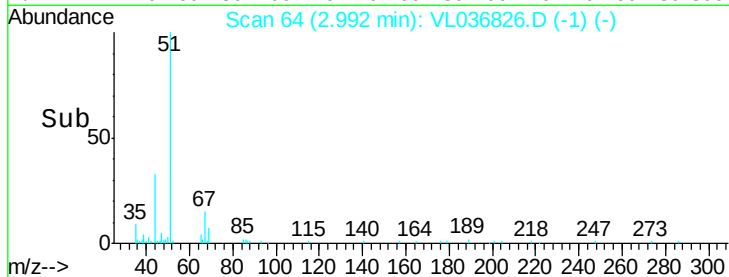
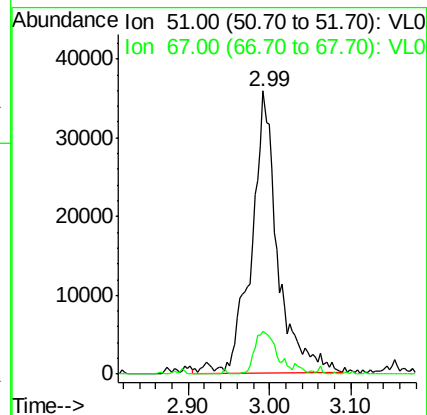
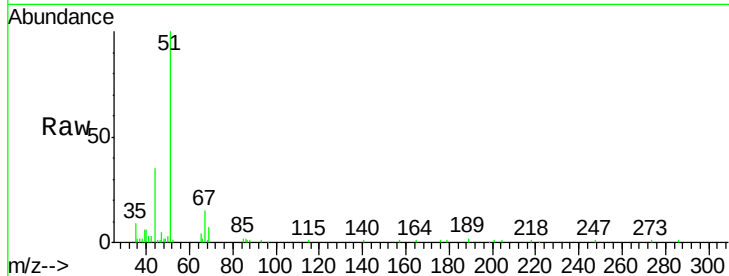
67 14.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/21/2021

Supervised By :Mahesh Dadoda 04/21/2021



#4

Chloromethane

Concen: 0.493 ppbv m

RT: 3.15 min Scan# 113

Delta R.T. 0.01 min

Lab File: VL036826.D

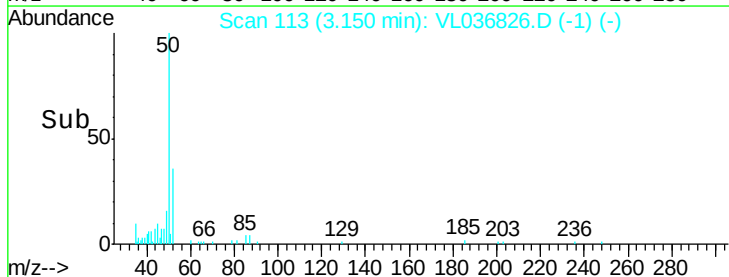
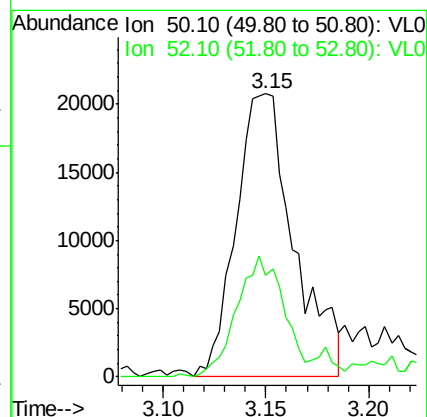
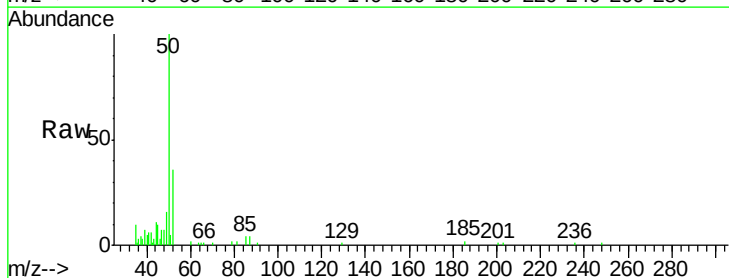
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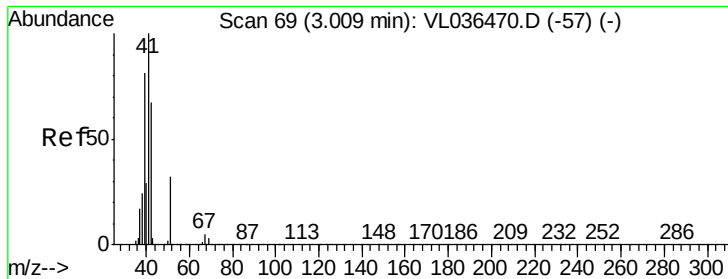
Tgt Ion: 50 Resp: 40814

Ion Ratio Lower Upper

50 100

52 35.7 27.0 40.6





#9

Propene

Concen: 1.086 ppbv m

RT: 3.02 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 20 Apr 2021 17:57 OA1DUP

Tot Ion:

Ion Ratio

41 100

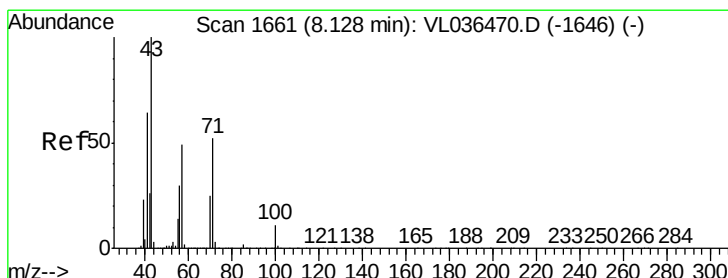
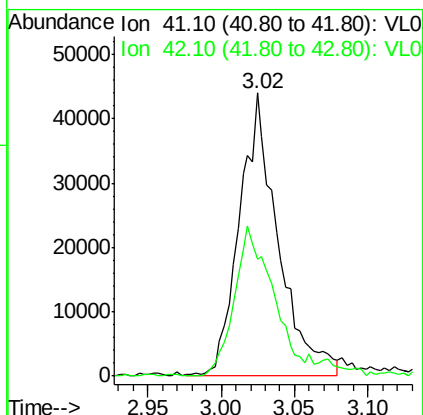
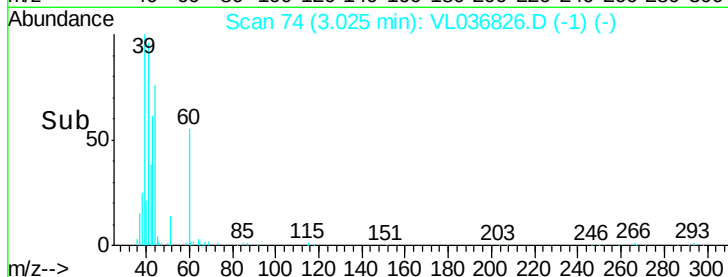
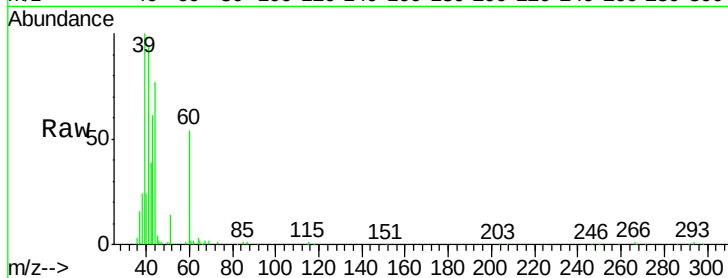
42 136.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/21/2021

Supervised By :Mahesh Dadoda 04/21/2021



#10

Heptane

Concen: 0.142 ppbv m

RT: 8.14 min Scan# 1664

Delta R.T. 0.01 min

Lab File: VL036826.D

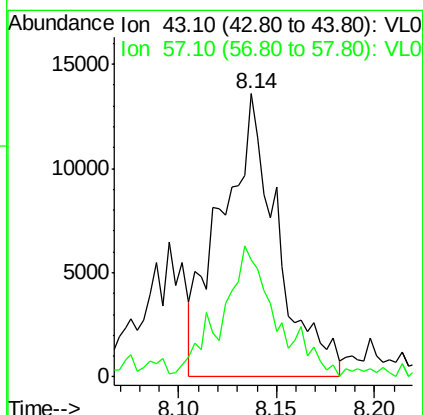
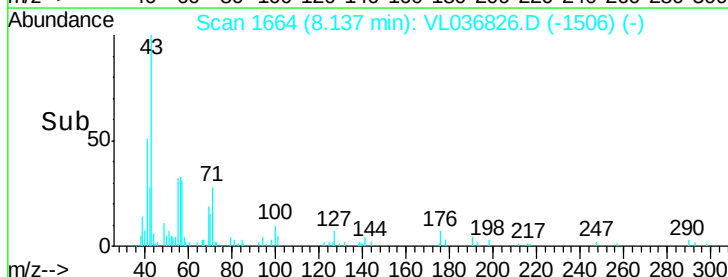
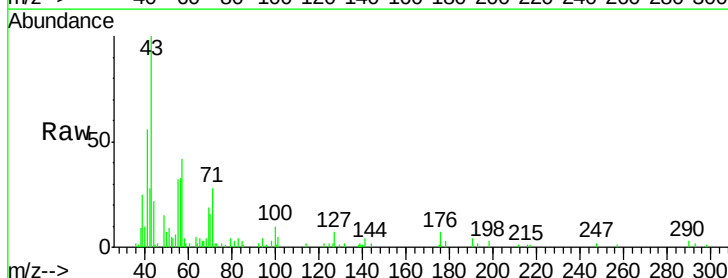
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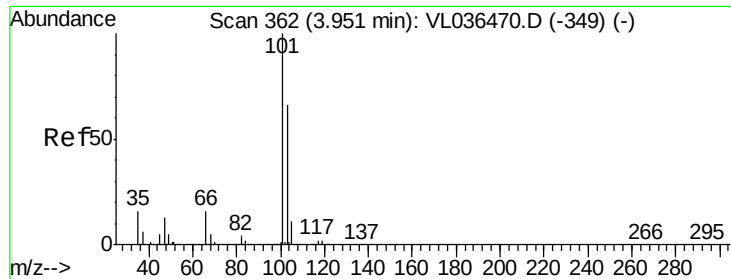
Tgt Ion: 43 Resp: 27103

Ion Ratio Lower Upper

43 100

57 46.0 39.0 58.6



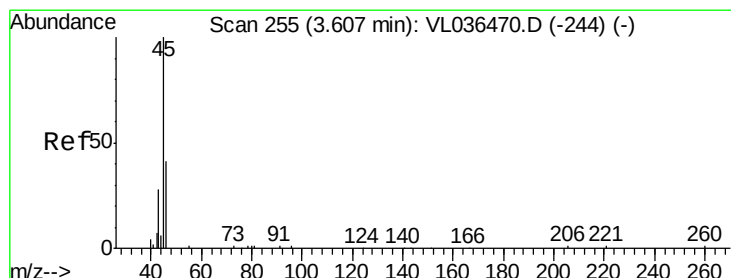
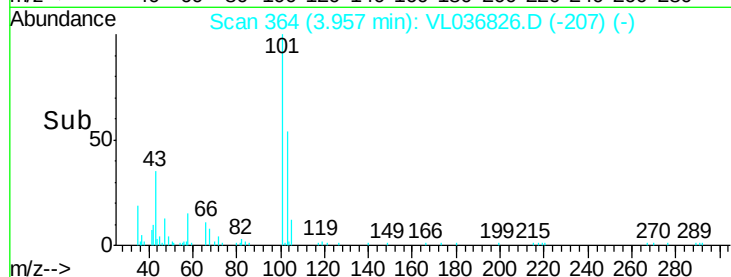
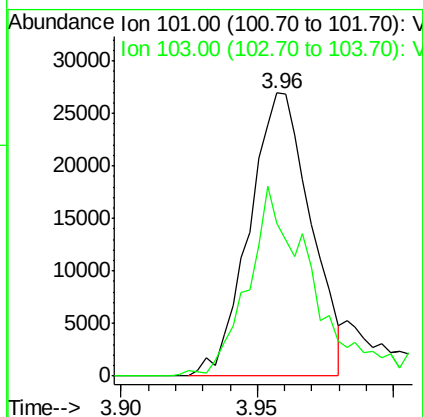
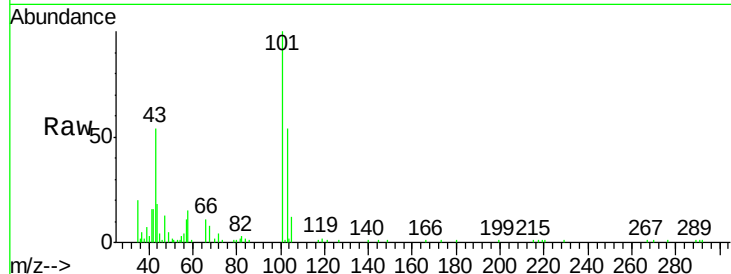


#11
 Trichlorofluoromethane
 Concen: 0.201 ppbv
 RT: 3.96
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 20 Apr 2021 17:57

Tot Ion:1
 Ion Rati
 101 100
 103 52.

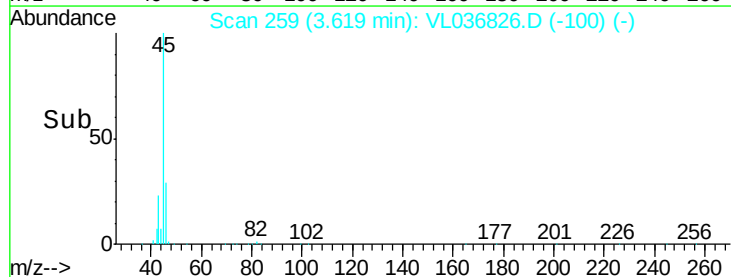
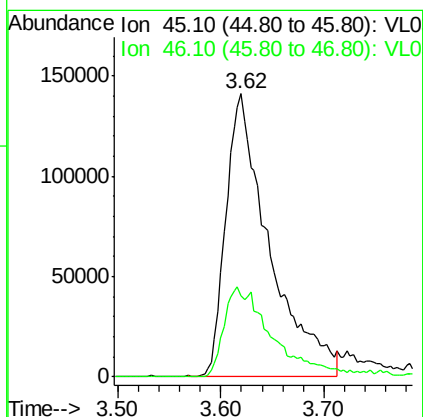
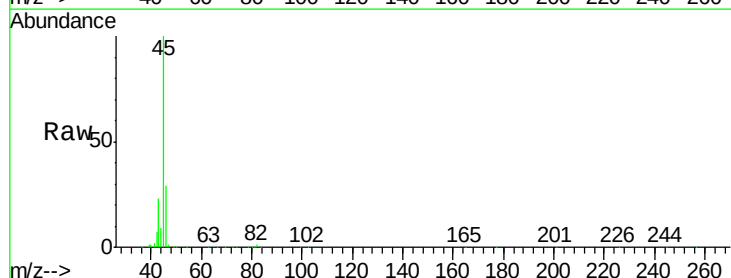
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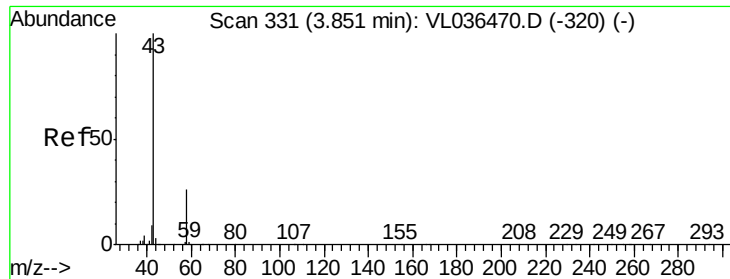
Reviewed By :Semsettin Yesilyurt 04/21/2021
 Supervised By :Mahesh Dadoda 04/21/2021



#13
 Ethanol
 Concen: 46.481 ppbv m
 RT: 3.62 min Scan# 259
 Delta R.T. 0.01 min
 Lab File: VL036826.D
 Acq: 20 Apr 2021 17:57

Tgt Ion: 45 Resp: 413356
 Ion Ratio Lower Upper
 45 100
 46 36.4 16.6 66.2



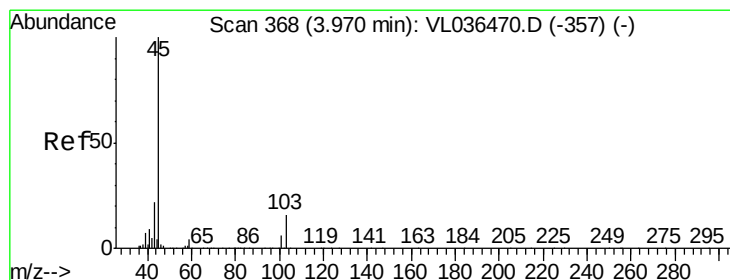
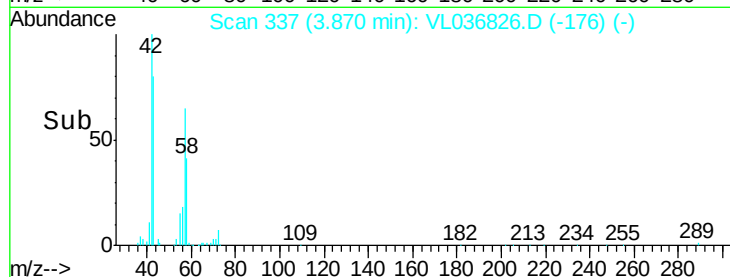
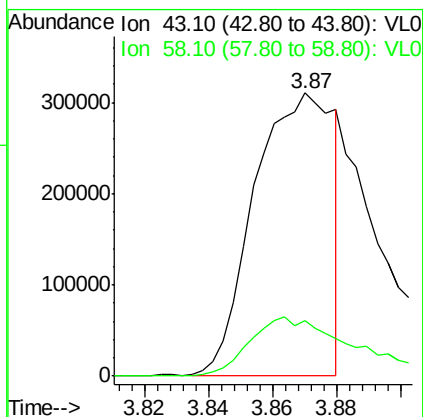
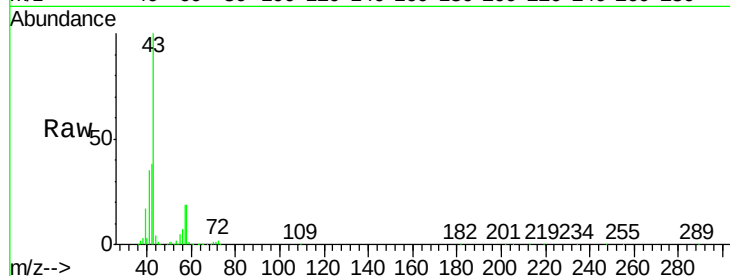


#15
Acetone
Concen: 4.339 ppbv m
RT: 3.87
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 20 Apr 2021 17:57

Tot Ion:
Ion Ratio
43 100
58 32.

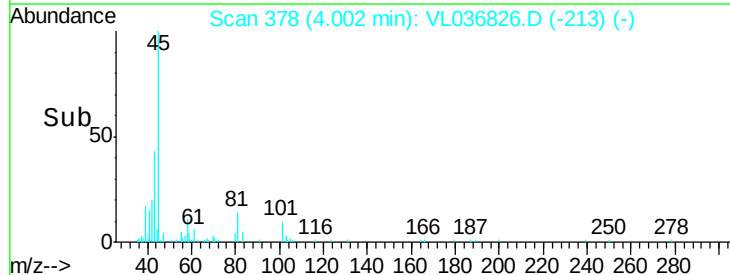
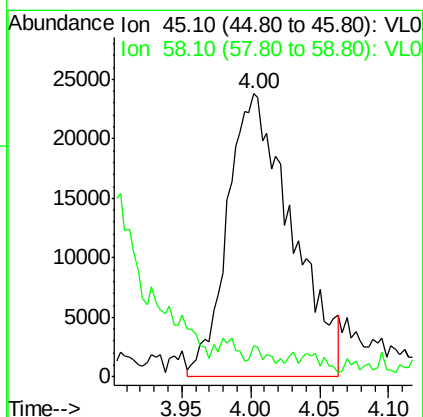
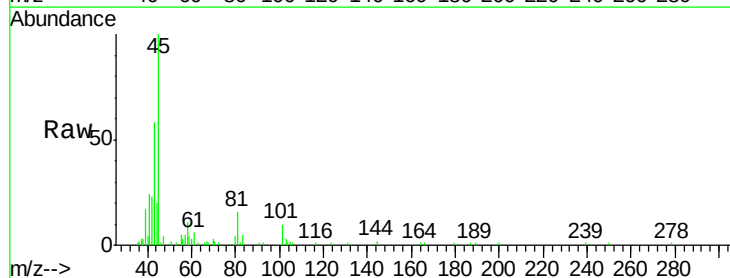
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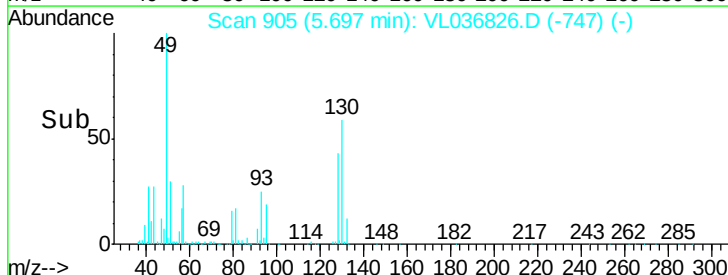
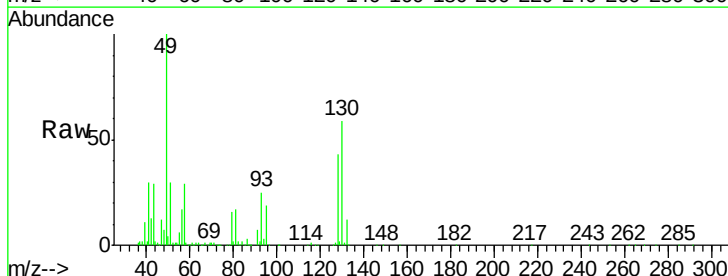
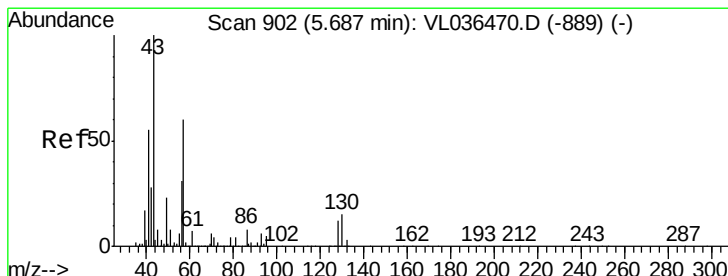
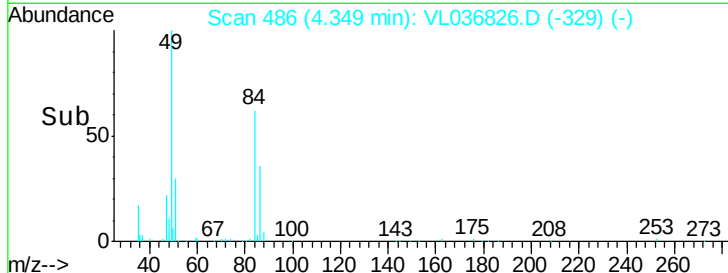
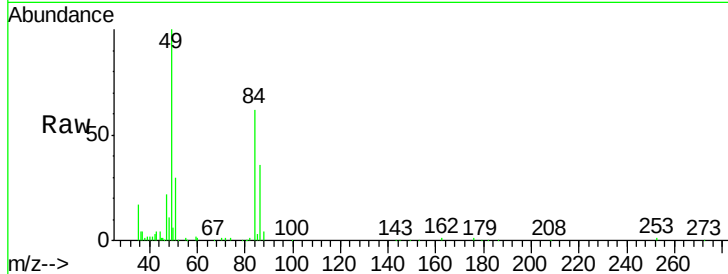
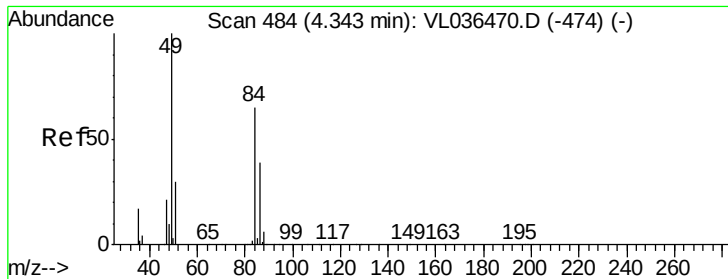
Reviewed By :Semsettin Yesilyurt 04/21/2021
Supervised By :Mahesh Dadoda 04/21/2021



#19
Isopropyl Alcohol
Concen: 1.135 ppbv m
RT: 4.00 min Scan# 378
Delta R.T. 0.03 min
Lab File: VL036826.D
Acq: 20 Apr 2021 17:57

Tgt Ion: 45 Resp: 77067
Ion Ratio Lower Upper
45 100
58 6.6 2.9 4.3#



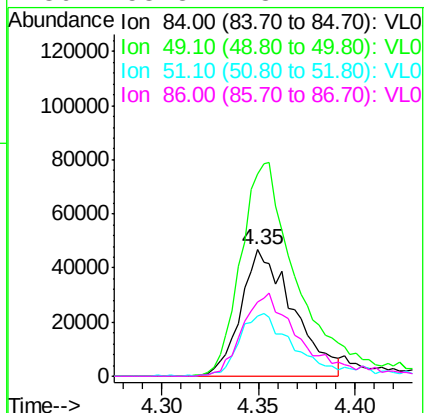


#20
Methylene Chloride
Concen: 1.525 ppbv
RT: 4.35
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
Acq: 20 Apr 2021 17:57

Tot Ion:
Ion Ratio
84 100
49 159.
51 46.
86 58.3 48.2 72.4

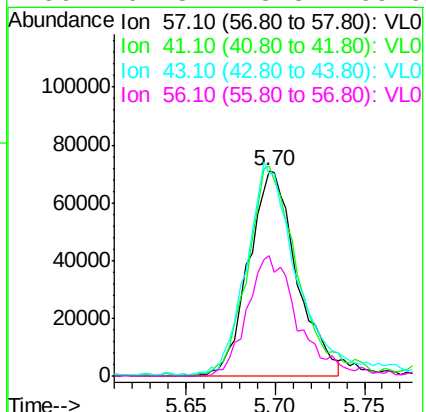
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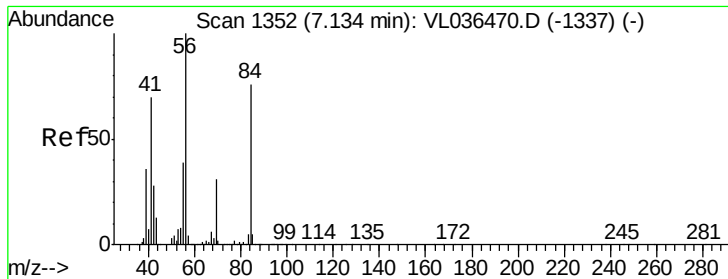
Reviewed By :Semsettin Yesilyurt 04/21/2021
Supervised By :Mahesh Dadoda 04/21/2021



#26
Hexane
Concen: 0.977 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.01 min
Lab File: VL036826.D
Acq: 20 Apr 2021 17:57

Tgt Ion: 57 Resp: 133022
Ion Ratio Lower Upper
57 100
41 111.0 77.2 115.8
43 115.1 173.8 260.6#
56 62.8 43.8 65.6



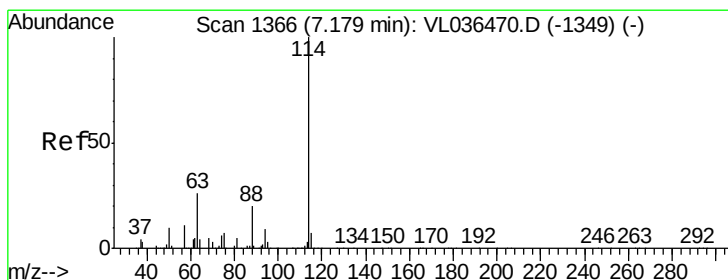
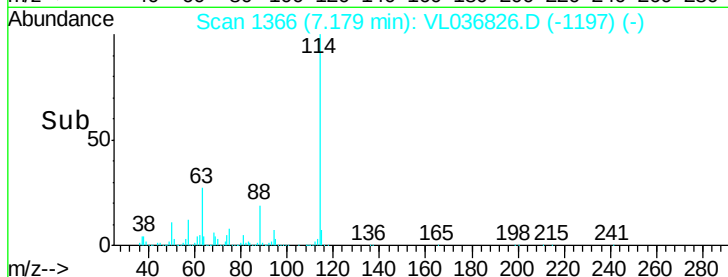
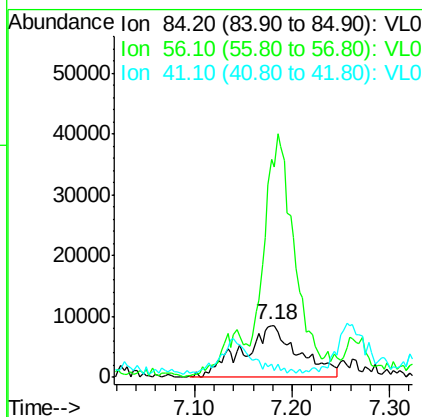
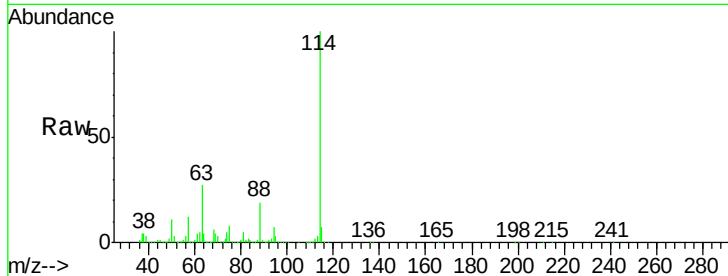


#30
Cvclohexane
Concen: 0.306 ppbv m
RT: 7.18
Instrument: MSVOA_L
Delta R.T.
Lab File: ClientSampleId :
Acq: 20 Apr 2021 17:57

Tot Ion:
Ion Ratio
84 100
56 0.
41 44.

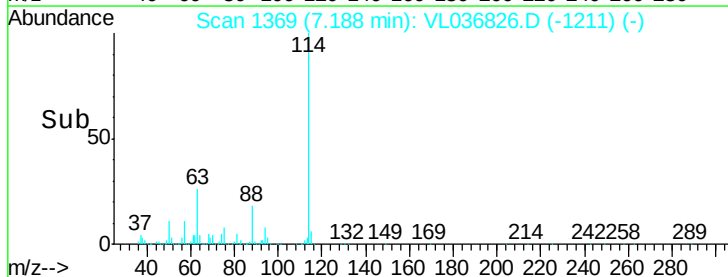
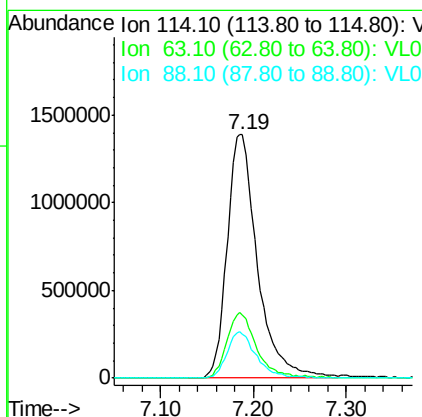
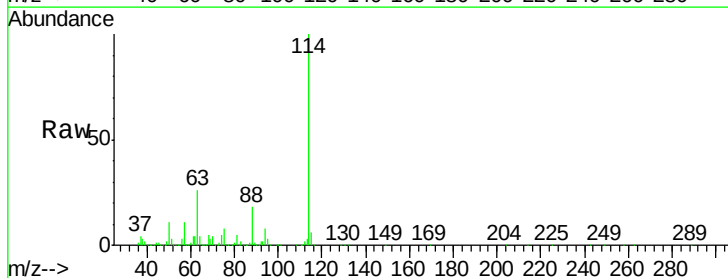
Manual Integrations
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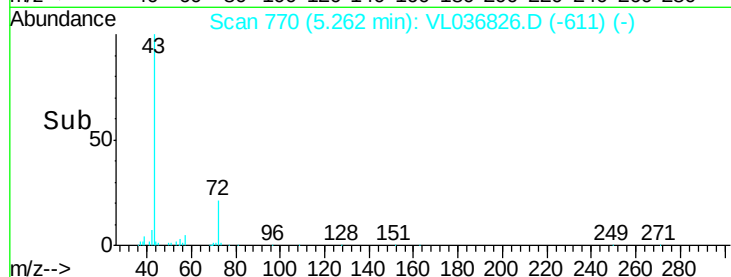
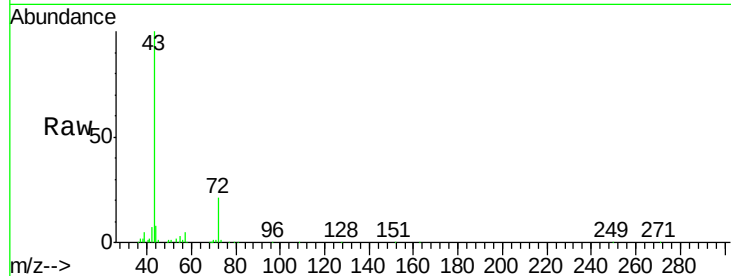
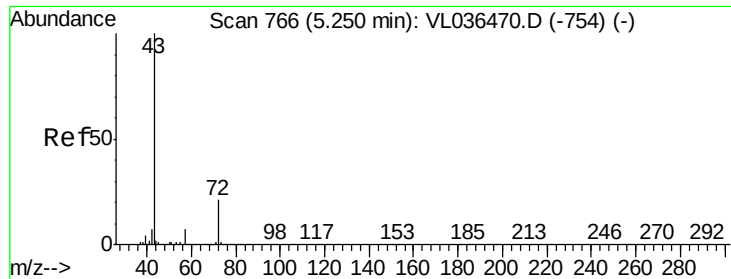
Reviewed By :Semsettin Yesilyurt 04/21/2021
Supervised By :Mahesh Dadoda 04/21/2021



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1369
Delta R.T. 0.01 min
Lab File: VL036826.D
Acq: 20 Apr 2021 17:57

Tgt Ion:114 Resp: 3144618
Ion Ratio Lower Upper
114 100
63 26.9 22.4 33.6
88 18.8 15.4 23.0



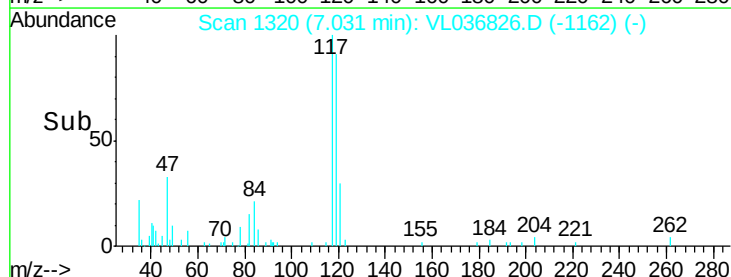
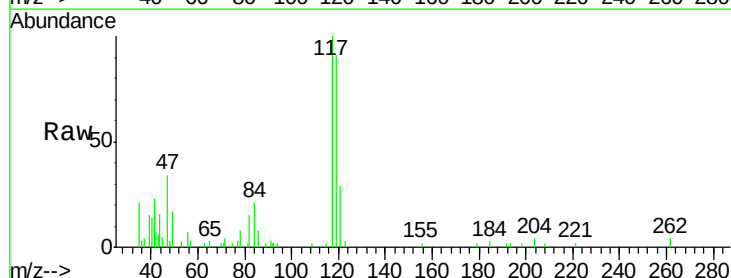
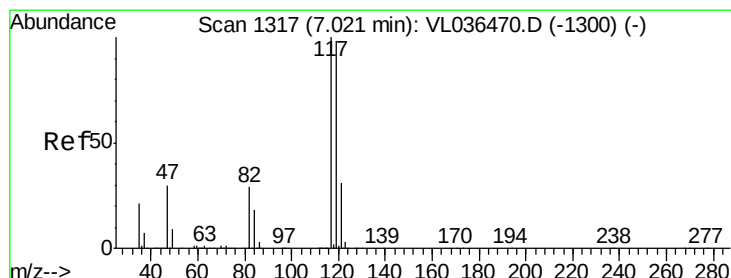
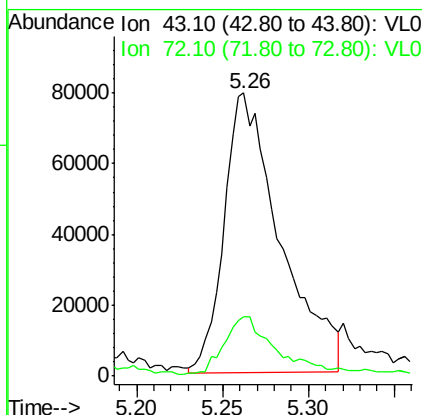


#34
2-Butanone
Concen: 1.165 ppbv
RT: 5.26
Instrument: MSVOA_L
Delta R.T.
Lab File: ClientSampleId :
Acq: 20 Apr 2021 17:57

Tot Ion:
Ion Ratio
43 100
72 23.

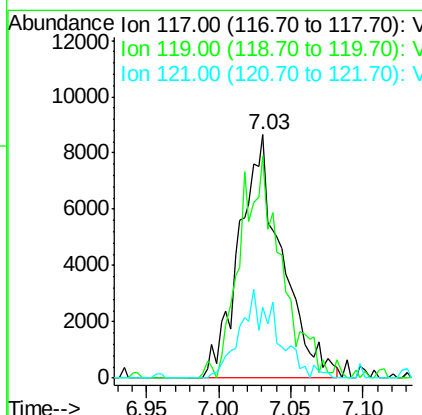
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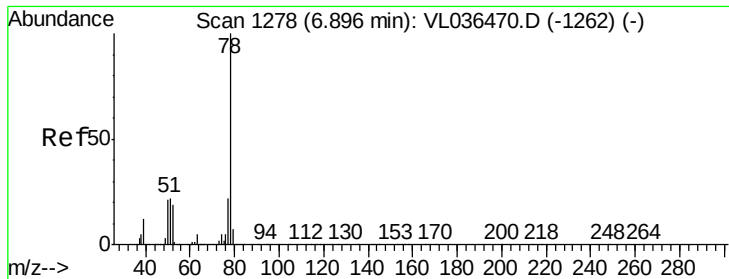
Reviewed By :Semsettin Yesilyurt 04/21/2021
Supervised By :Mahesh Dadoda 04/21/2021



#35
Carbon Tetrachloride
Concen: 0.074 ppbv m
RT: 7.03 min Scan# 1320
Delta R.T. 0.01 min
Lab File: VL036826.D
Acq: 20 Apr 2021 17:57

Tgt Ion:117 Resp: 17799
Ion Ratio Lower Upper
117 100
119 90.9 78.2 117.2
121 29.0 24.5 36.7



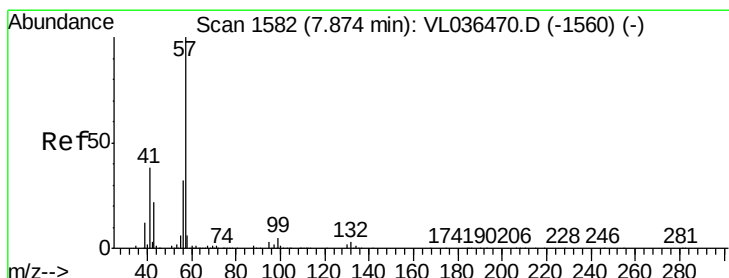
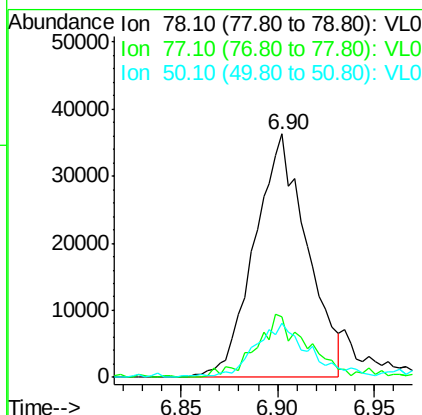
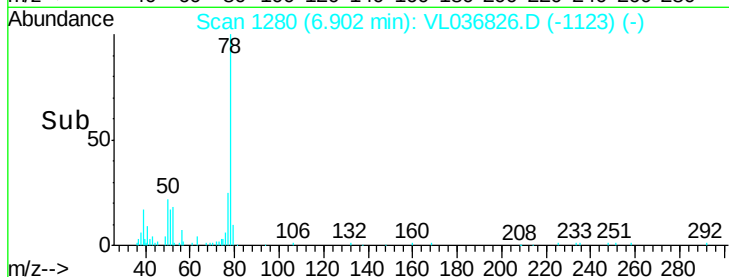
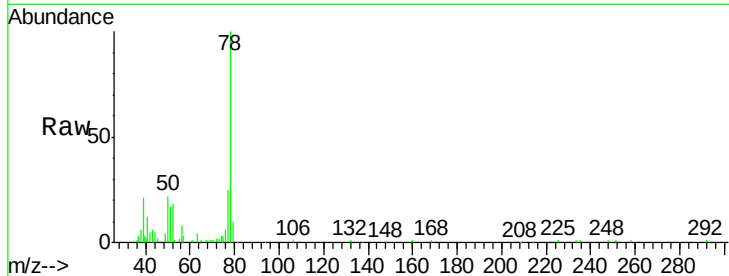


#36
Benzene
Concen: 0.236 ppbv
RT: 6.90
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 20 Apr 2021 17:57

Tot Ion:
Ion Ratio
78 100
77 24.
50 21.

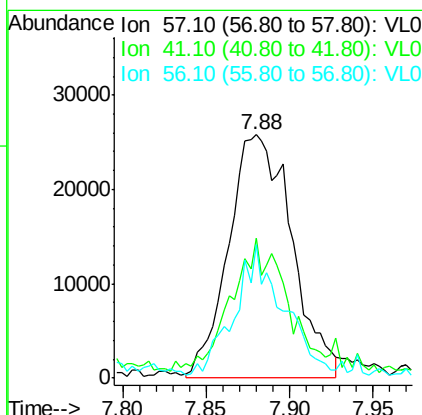
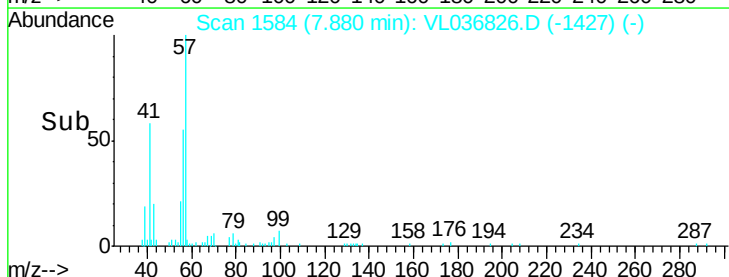
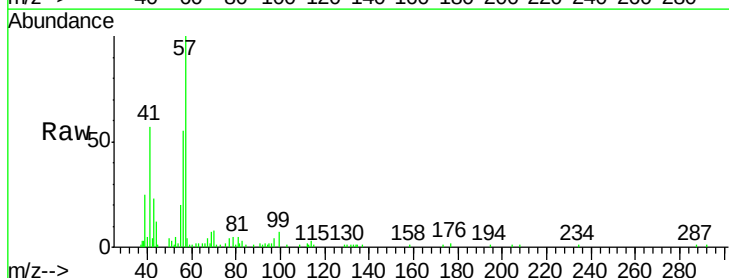
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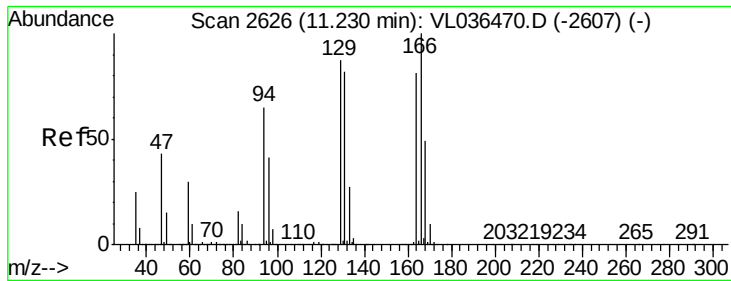
Reviewed By :Semsettin Yesilyurt 04/21/2021
Supervised By :Mahesh Dadoda 04/21/2021



#44
2,2,4-Trimethylpentane
Concen: 0.134 ppbv m
RT: 7.88 min Scan# 1584
Delta R.T. 0.01 min
Lab File: VL036826.D
Acq: 20 Apr 2021 17:57

Tgt Ion: 57 Resp: 68158
Ion Ratio Lower Upper
57 100
41 50.5 28.8 43.2#
56 44.2 26.1 39.1#





#52

Tetrachloroethene

Concen: 0.040 ppbv m

RT: 11.24

Delta R.T. MSVOA_L

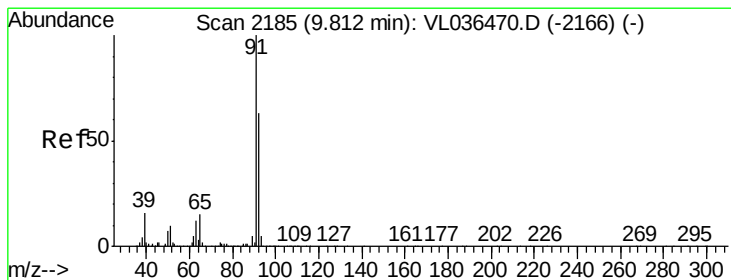
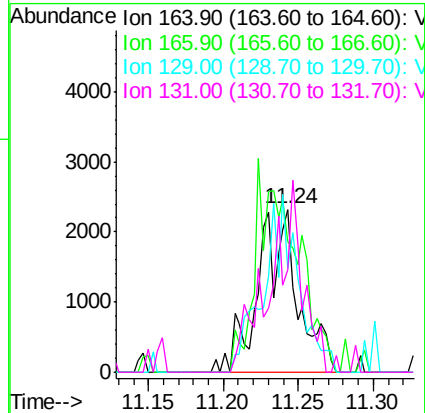
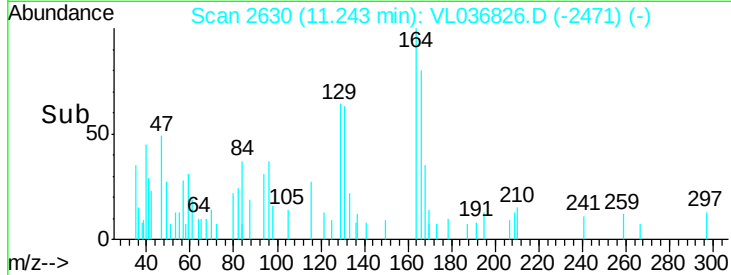
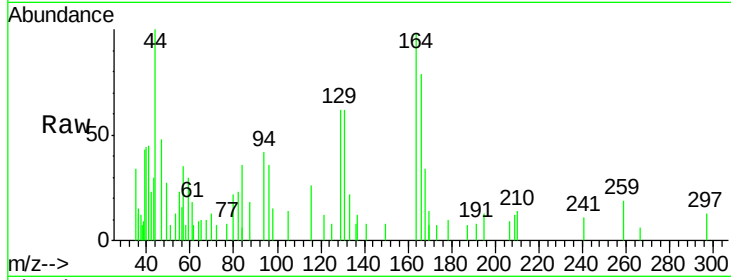
Lab File: ClientSampleId :

Acq: 20 Apr 2021 17:57

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/21/2021
Supervised By :Mahesh Dadoda 04/21/2021

Tot Ion:1
Ion Ratio
164 100
166 80.
129 64.
131 63.1 80.9 121.3#



#53

Toluene

Concen: 0.415 ppbv

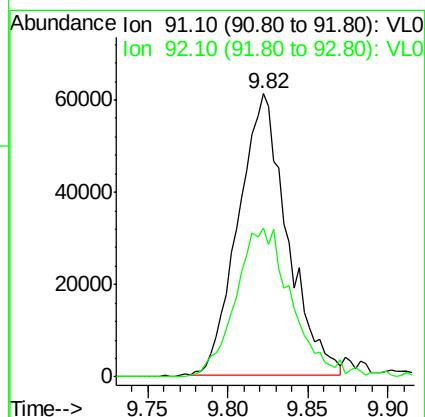
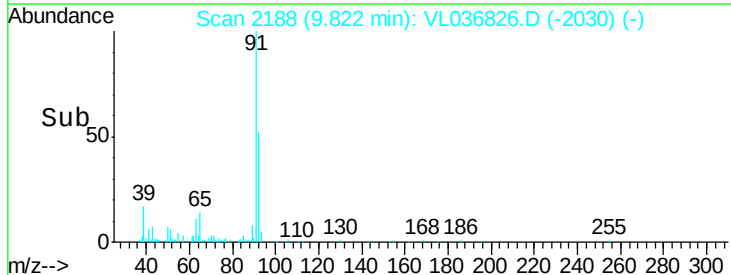
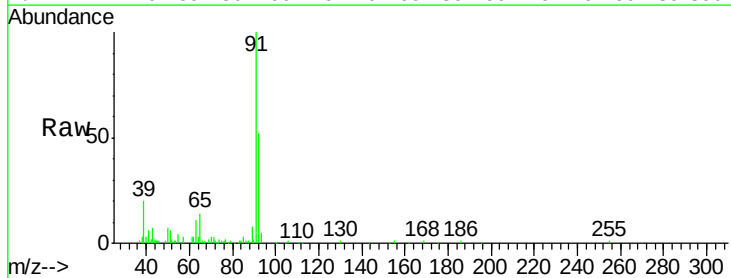
RT: 9.82 min Scan# 2188

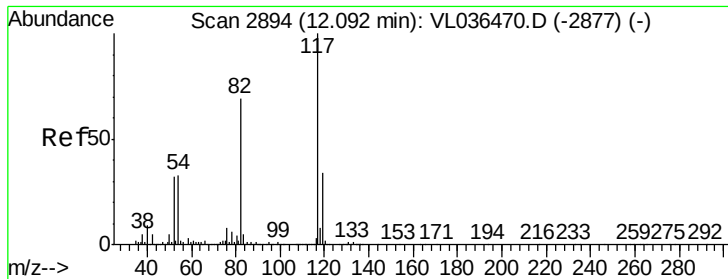
Delta R.T. 0.01 min

Lab File: VL036826.D

Acq: 20 Apr 2021 17:57

Tgt Ion: 91 Resp: 128235
Ion Ratio Lower Upper
91 100
92 60.9 48.8 73.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 20 Apr 2021 17:57

Tot Ion:1

Ion Rati

117 100

82 72.

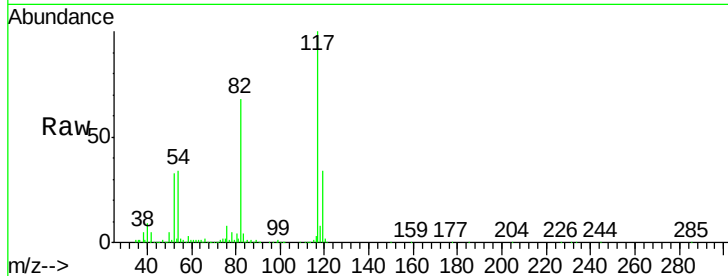
119 34.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/21/2021

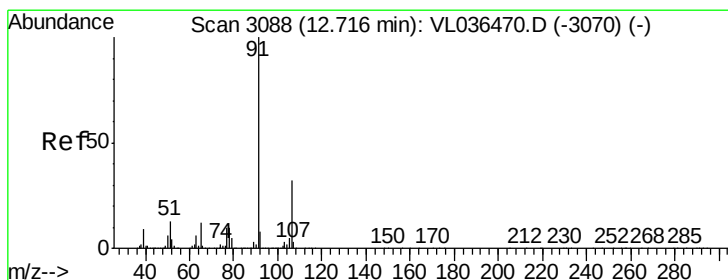
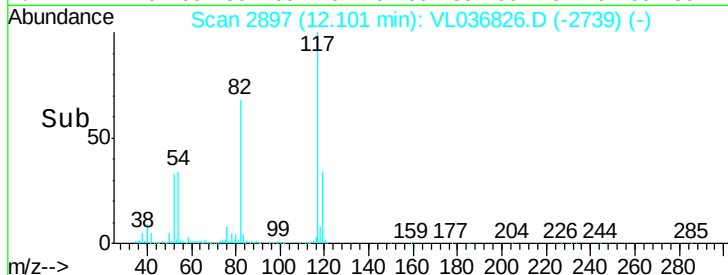
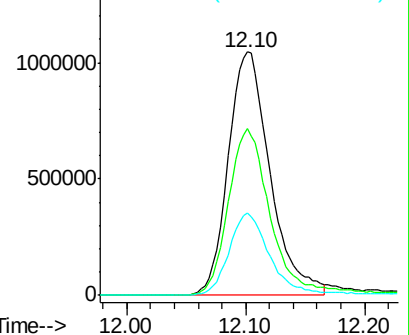
Supervised By :Mahesh Dadoda 04/21/2021



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#58

Ethyl Benzene

Concen: 0.101 ppbv m

RT: 12.73 min Scan# 3091

Delta R.T. 0.01 min

Lab File: VL036826.D

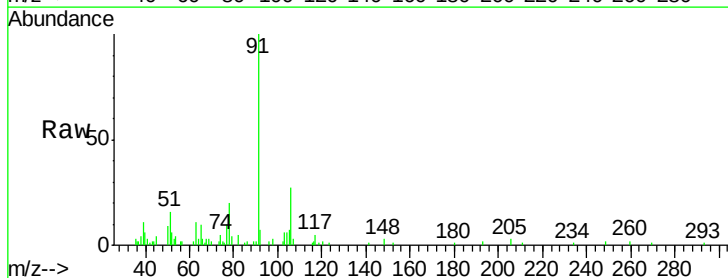
Acq: 20 Apr 2021 17:57

Tgt Ion: 91 Resp: 37355

Ion Ratio Lower Upper

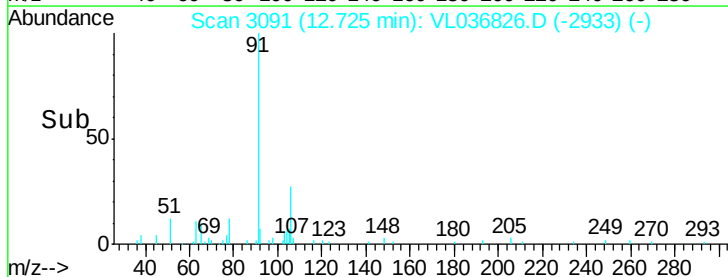
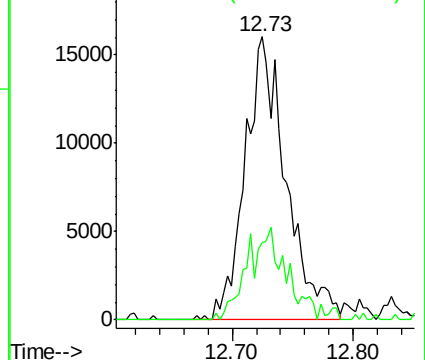
91 100

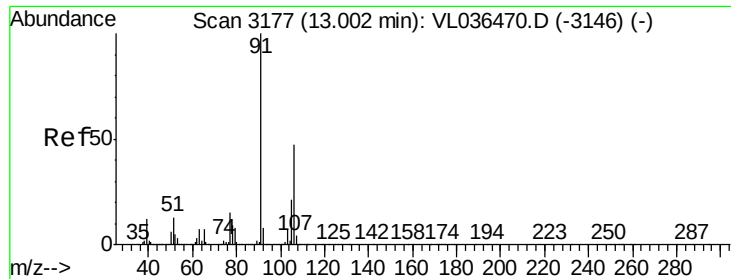
106 27.4 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 0.266 ppbv m

RT: 12.99

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 20 Apr 2021 17:57

Tot Ion:

Ion Ratio

91 100

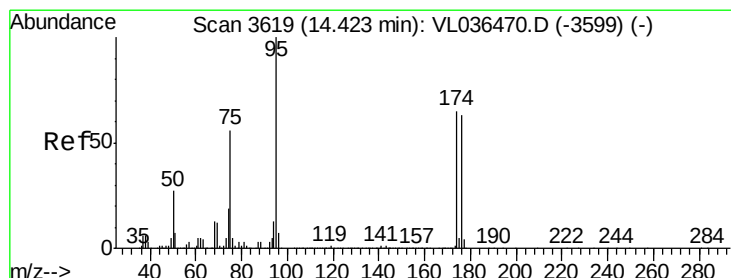
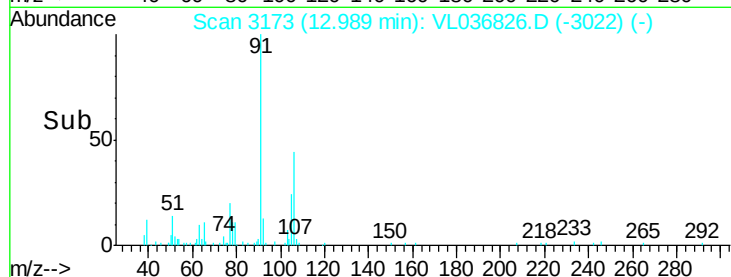
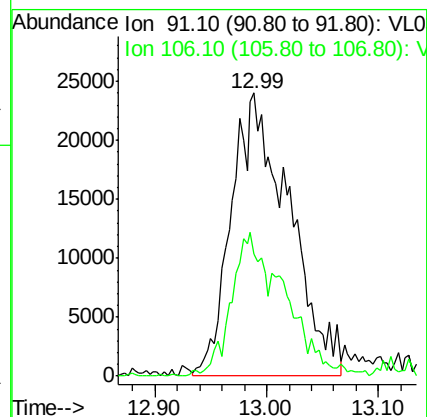
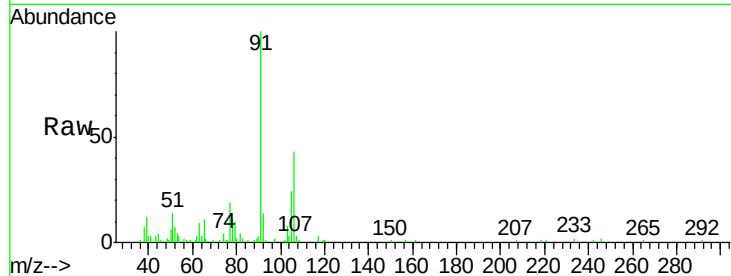
106 0.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2021

Supervised By :Mahesh Dadoda 04/21/2021



#68

1-Bromo-4-Fluorobenzene

Concen: 9.099 ppbv

RT: 14.44 min Scan# 3623

Delta R.T. 0.01 min

Lab File: VL036826.D

Acq: 20 Apr 2021 17:57

Tgt Ion: 95 Resp: 1848610

Ion Ratio Lower Upper

95 100

174 68.3 51.0 76.6

175 5.2 3.9 5.9

