

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101221\
 Data File : VL037848.D
 Acq On : 13 Oct 2021 3:00
 Operator : SY/AP
 Sample : VIBLK
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 VIBLK

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 10/14/2021
 Supervised By : Mahesh Dadoda 10/15/2021

Quant Time: Oct 14 03:09:04 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL100421A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Mon Oct 04 17:43:54 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1295952	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3626105	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3079269	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2164102	10.05	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	24885m	0.120	ppbv	
3) Chlorodifluoromethane	2.99	51	26103m	0.105	ppbv	
4) Chloromethane	3.14	50	19528m	0.214	ppbv	
9) Propene	3.02	41	60022	0.655	ppbv	97
11) Trichlorofluoromethane	3.94	101	20539m	0.111	ppbv	
13) Ethanol	3.61	45	318836	42.552	ppbv	85
15) Acetone	3.84	43	3273148	28.135	ppbv	98
17) tert-Butyl alcohol	4.30	59	58944m	0.492	ppbv	
19) Isopropyl Alcohol	3.97	45	158127	2.185	ppbv #	1
20) Methylene Chloride	4.34	84	284595	4.842	ppbv	99
25) Ethyl Acetate	5.67	43	710461	2.176	ppbv #	96
29) Chloroform	5.75	83	81765	0.356	ppbv	98
34) 2-Butanone	5.24	43	705628	4.820	ppbv	99
36) Benzene	6.88	78	43156	0.139	ppbv #	89
37) 1,2-Dichloroethane	6.30	62	54536	0.374	ppbv	99
38) Trichloroethene	7.83	130	24394m	0.199	ppbv	
51) 2-Hexanone	10.15	43	39235m	0.461	ppbv	
52) Tetrachloroethene	11.22	164	1660626	13.781	ppbv	98
53) Toluene	9.80	91	876989	2.555	ppbv	99
58) Ethyl Benzene	12.71	91	59492m	0.144	ppbv	
59) m/p-Xylene	12.96	91	182112m	0.513	ppbv	
60) o-Xylene	13.69	91	76036m	0.224	ppbv	
61) Styrene	13.52	104	27676m	0.168	ppbv	

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

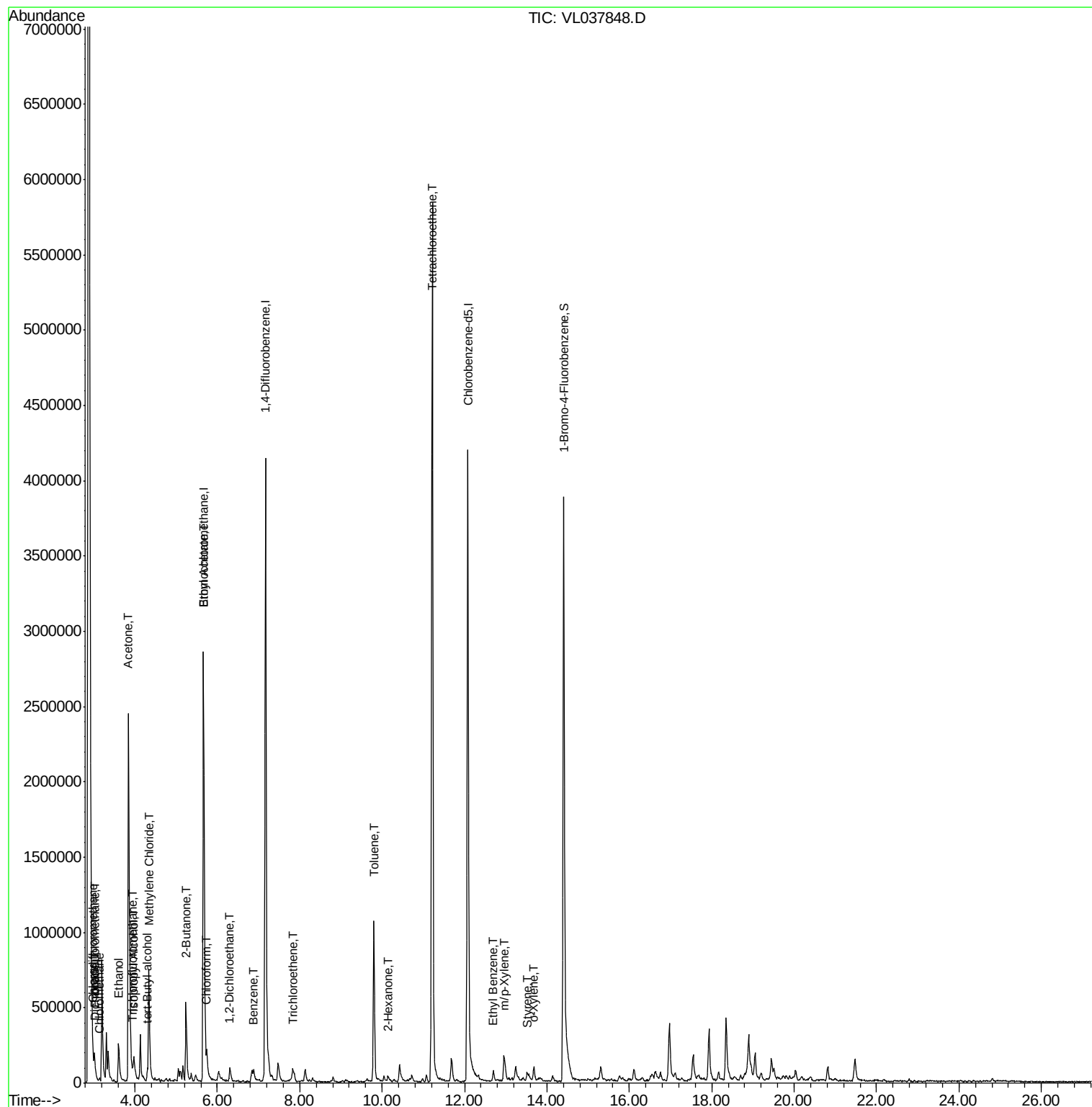
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Data File : VL037848.D
Acq On : 13 Oct 2021 3:00
Operator : SY/AP
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Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

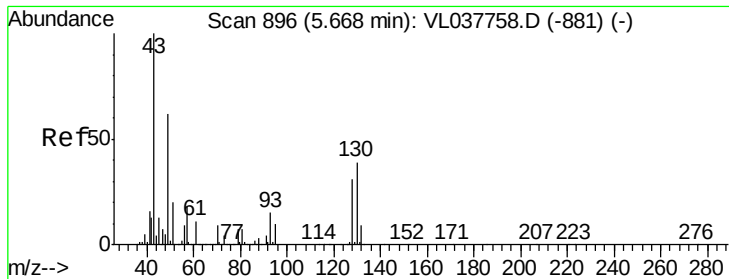
Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Manual Integrations
APPROVED

Quant Time: Oct 14 03:09:04 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL100421
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Mon Oct 04 17:43:54 2021
Response via : Initial Calibration

Reviewed By :Semsettin Yesilyurt 10/14/2021
Supervised By :Mahesh Dadoda 10/15/2021





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: VIBLK

Acq: 13 Oct 2021 3:00

Tot Ion:

Ion Ratio

49 100

128 52.

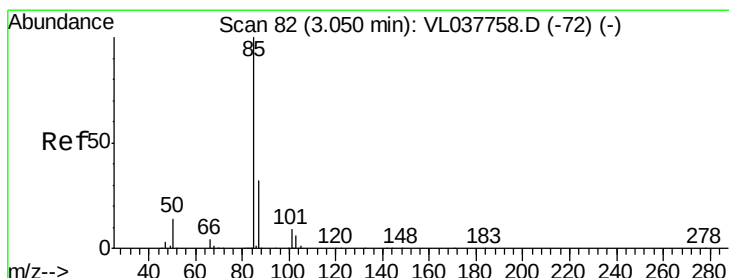
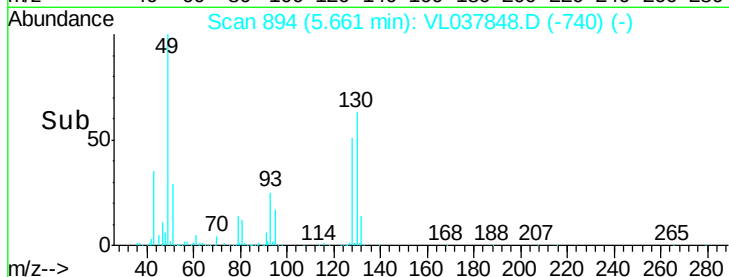
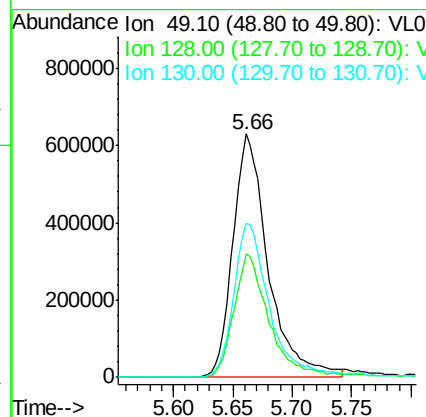
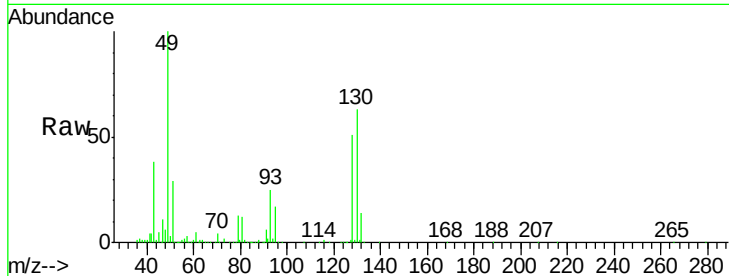
130 64.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/14/2021

Supervised By :Mahesh Dadoda 10/15/2021



#2

Dichlorodifluoromethane

Concen: 0.120 ppbv m

RT: 3.04 min Scan# 80

Delta R.T. -0.01 min

Lab File: VL037848.D

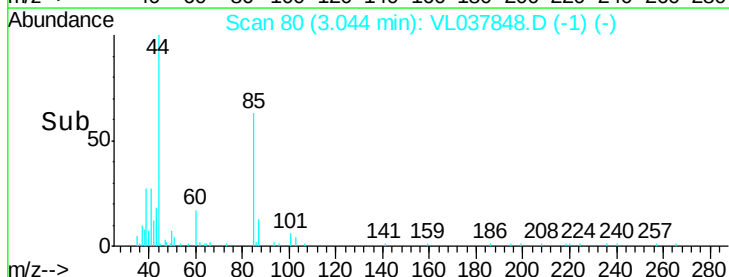
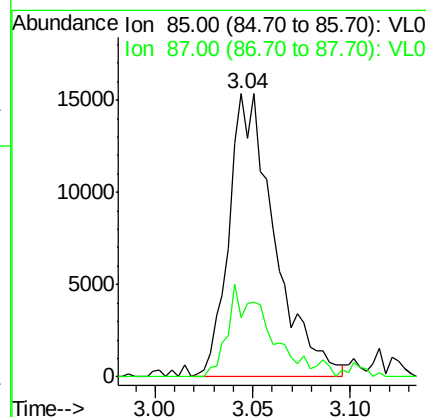
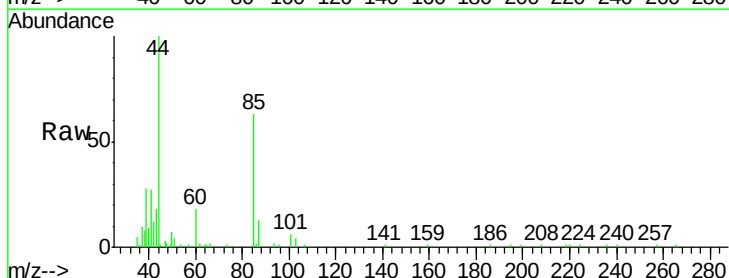
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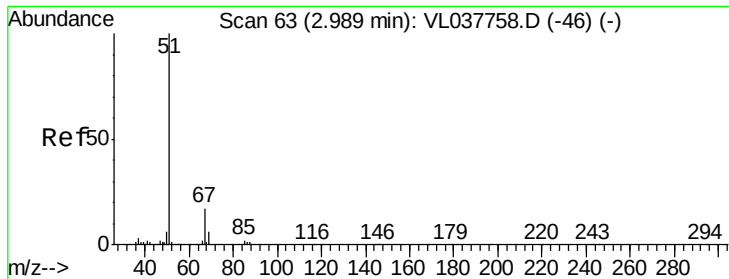
Tgt Ion: 85 Resp: 24885

Ion Ratio Lower Upper

85 100

87 20.9 25.7 38.5#





#3

Chlorodifluoromethane

Concen: 0.105 ppbv m

RT: 2.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Oct 2021 3:00

Tot Ion:

Ion Ratio

51 100

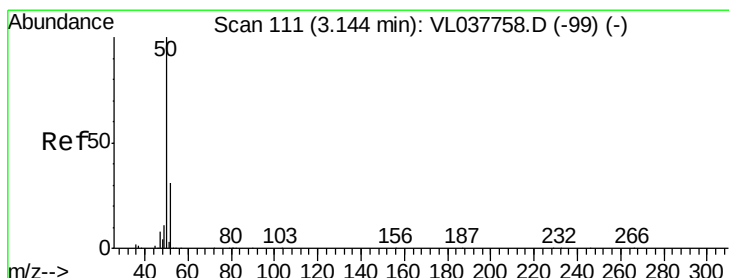
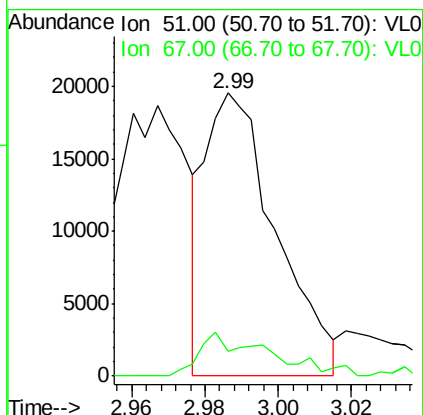
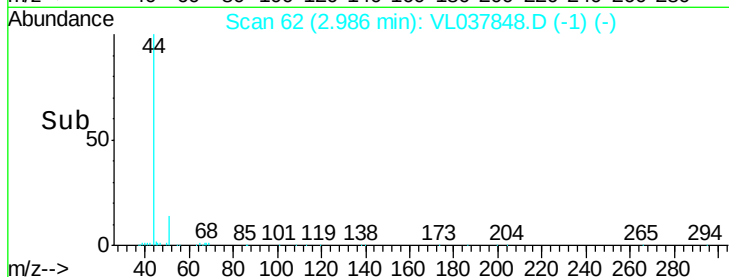
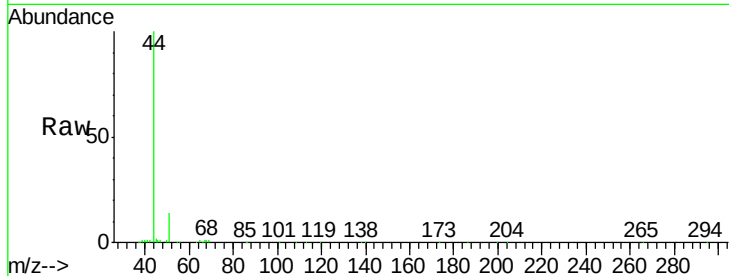
67 16.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/14/2021

Supervised By :Mahesh Dadoda 10/15/2021



#4

Chloromethane

Concen: 0.214 ppbv m

RT: 3.14 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL037848.D

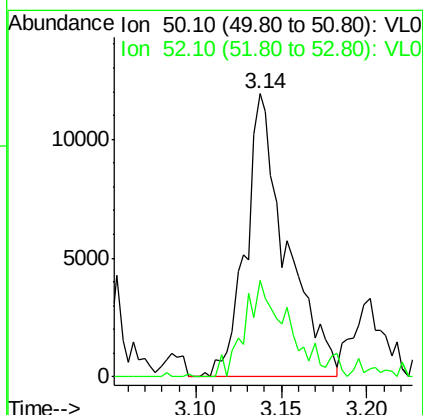
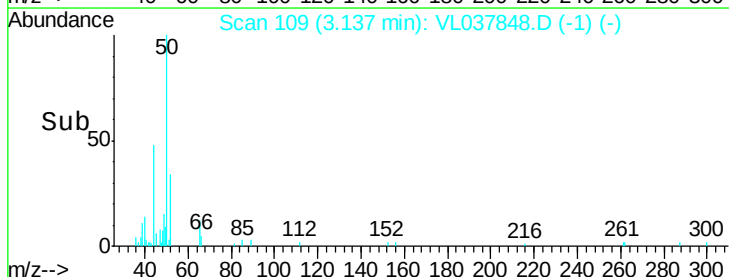
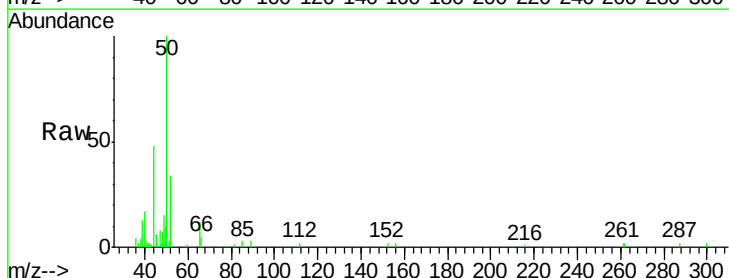
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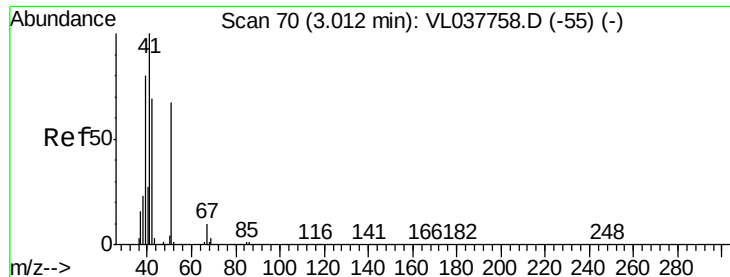
Tgt Ion: 50 Resp: 19528

Ion Ratio Lower Upper

50 100

52 34.0 24.4 36.6



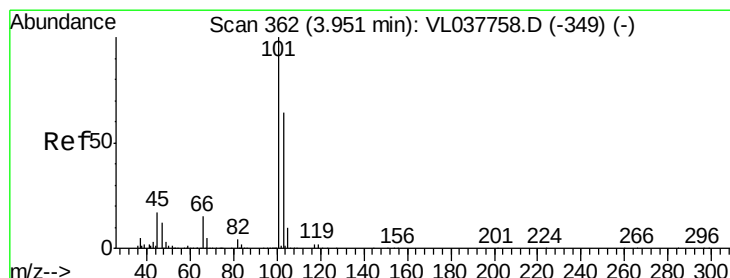
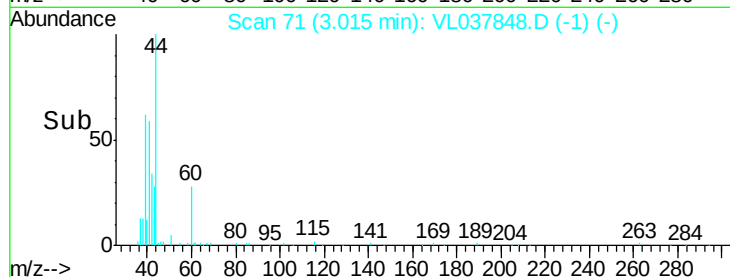
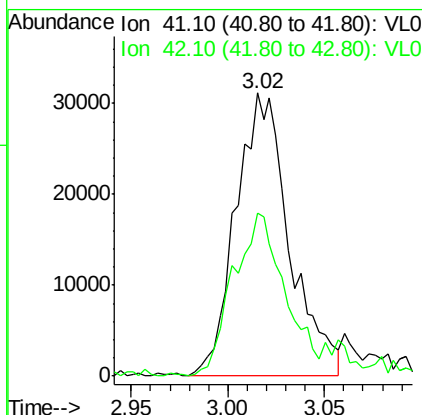
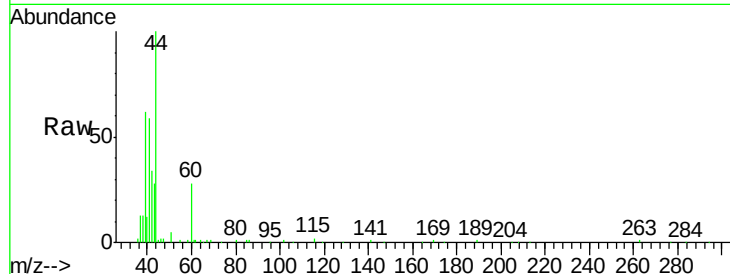


#9
 Propene
 Concen: 0.655 ppbv
 RT: 3.02
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 13 Oct 2021 3:00

Tot Ion:
 Ion Ratio
 41 100
 42 65.

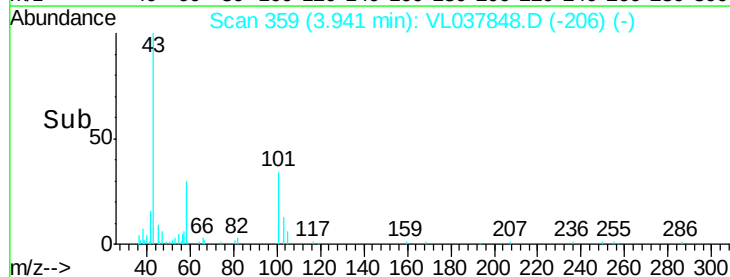
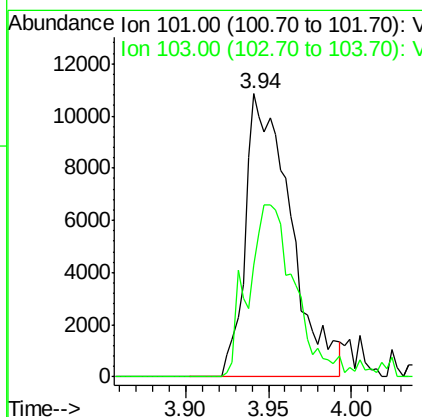
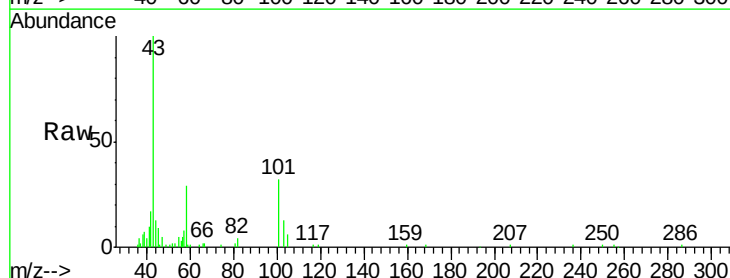
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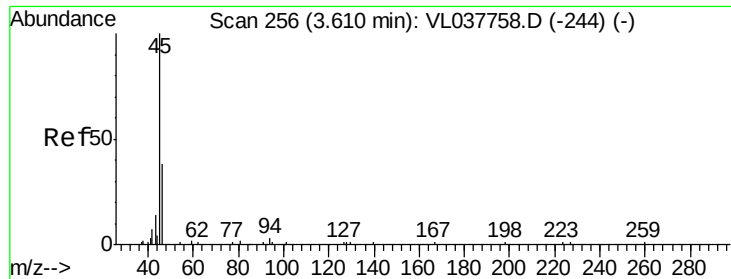
Reviewed By :Semsettin Yesilyurt 10/14/2021
 Supervised By :Mahesh Dadoda 10/15/2021



#11
 Trichlorofluoromethane
 Concen: 0.111 ppbv m
 RT: 3.94 min Scan# 359
 Delta R.T. -0.01 min
 Lab File: VL037848.D
 Acq: 13 Oct 2021 3:00

Tgt Ion:101 Resp: 20539
 Ion Ratio Lower Upper
 101 100
 103 39.5 51.5 77.3#



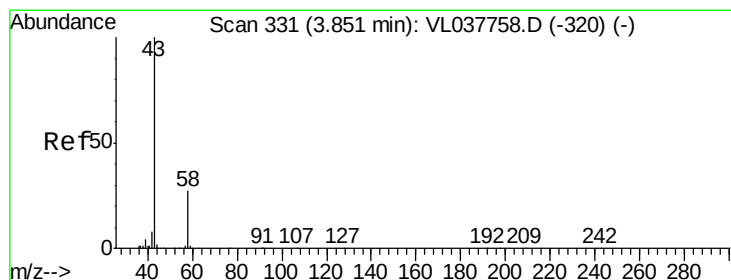
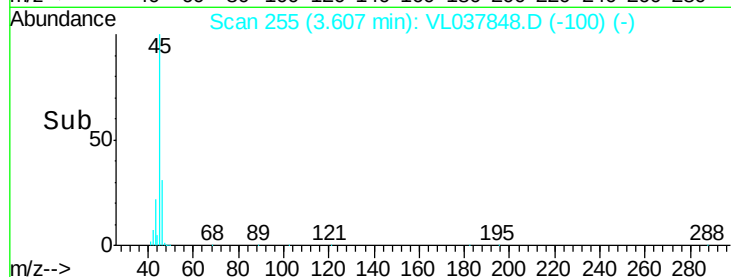
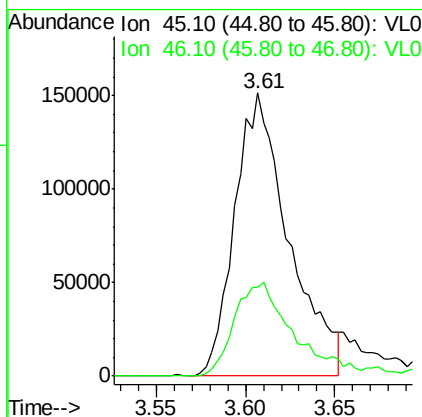
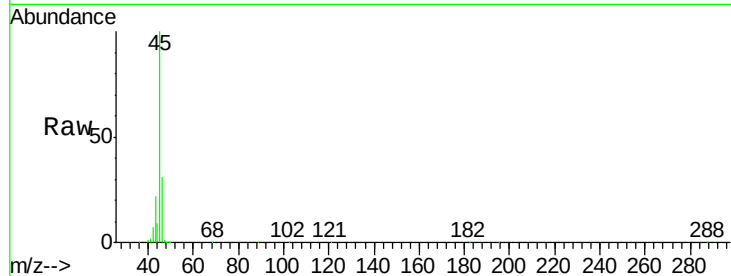


#13
Ethanol
Concen: 42.552 ppbv
RT: 3.61
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 13 Oct 2021 3:00

Tot Ion:
Ion Ratio
45 100
46 40.

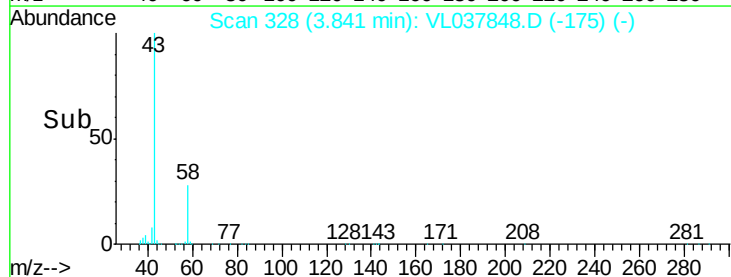
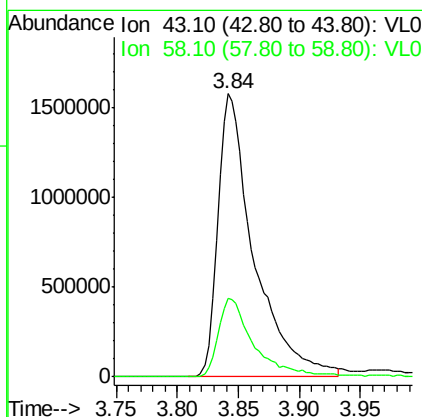
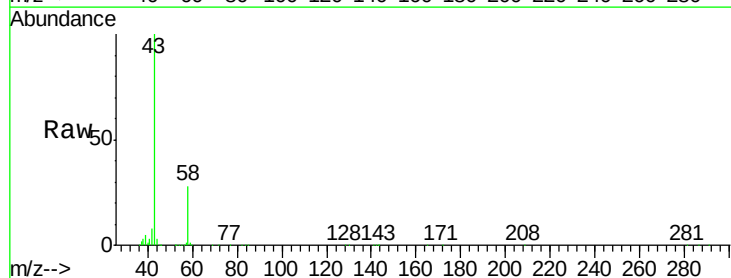
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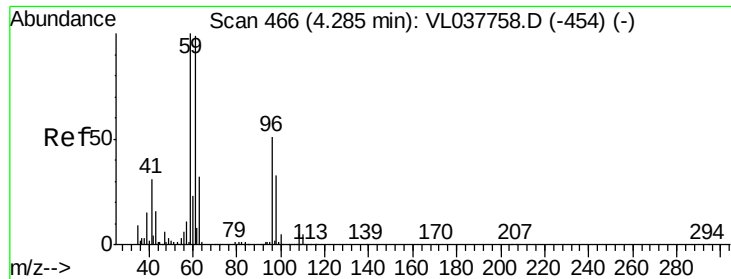
Reviewed By :Semsettin Yesilyurt 10/14/2021
Supervised By :Mahesh Dadoda 10/15/2021



#15
Acetone
Concen: 28.135 ppbv
RT: 3.84 min Scan# 328
Delta R.T.: -0.01 min
Lab File: VL037848.D
Acq: 13 Oct 2021 3:00

Tgt Ion: 43 Resp: 3273148
Ion Ratio Lower Upper
43 100
58 27.6 23.0 34.6





#17

tert-Butyl alcohol

Concen: 0.492 ppbv

RT: 4.30

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 13 Oct 2021 3:00

Tot Ion:

Ion Ratio

59 100

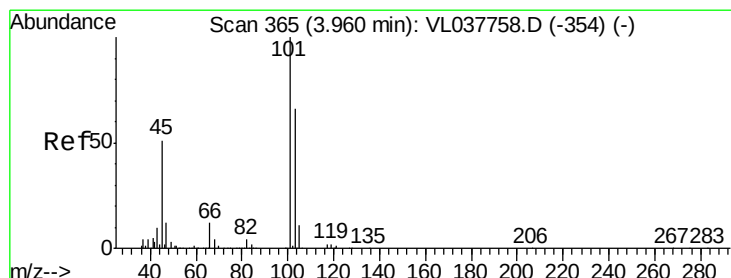
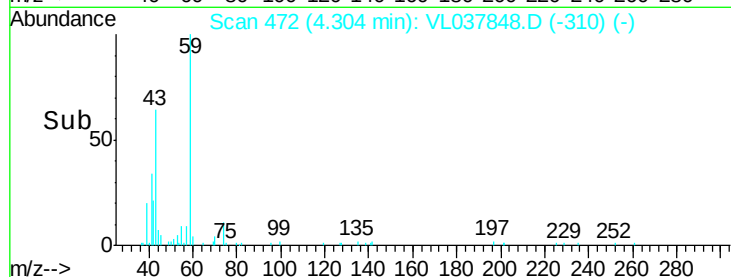
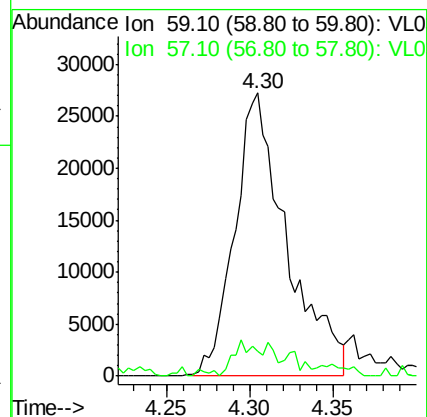
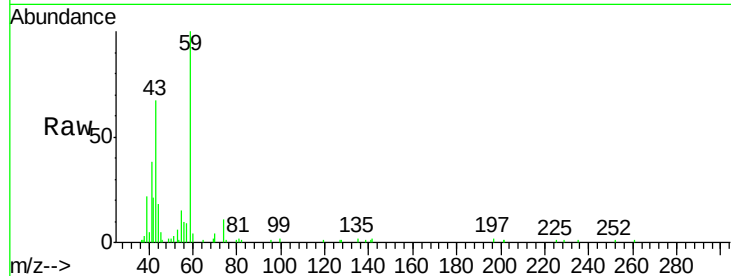
57 11.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/14/2021

Supervised By :Mahesh Dadoda 10/15/2021



#19

Isopropyl Alcohol

Concen: 2.185 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.01 min

Lab File: VL037848.D

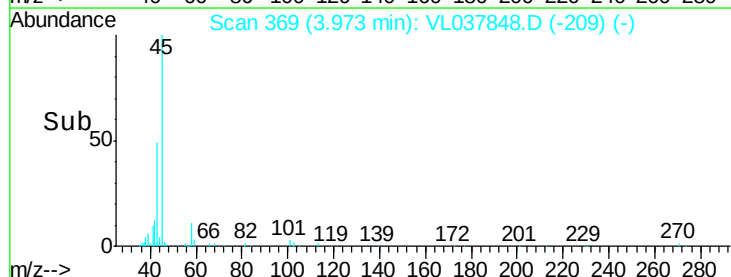
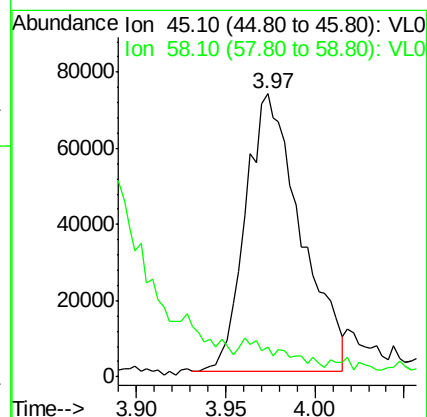
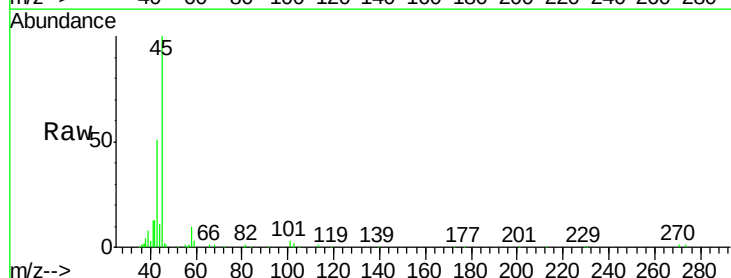
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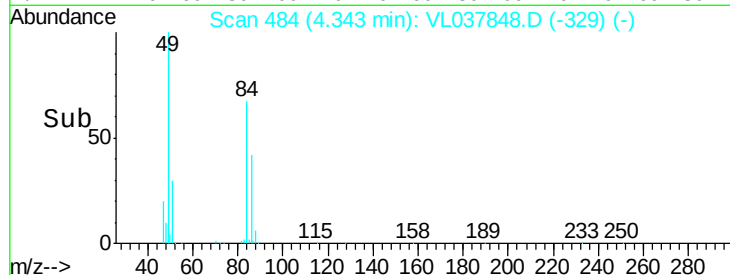
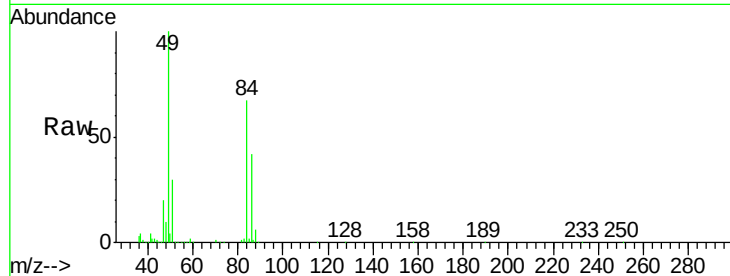
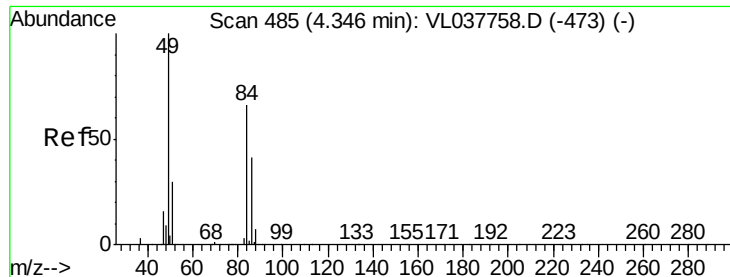
Tgt Ion: 45 Resp: 158127

Ion Ratio Lower Upper

45 100

58 582.8 1.1 1.7#



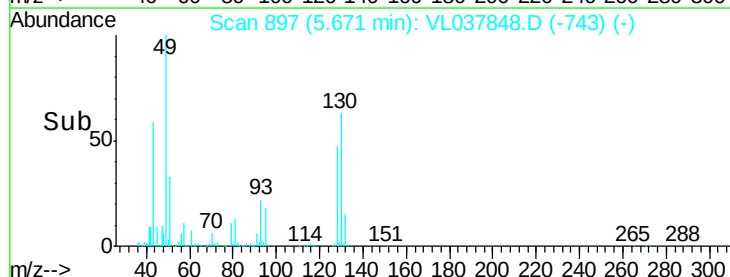
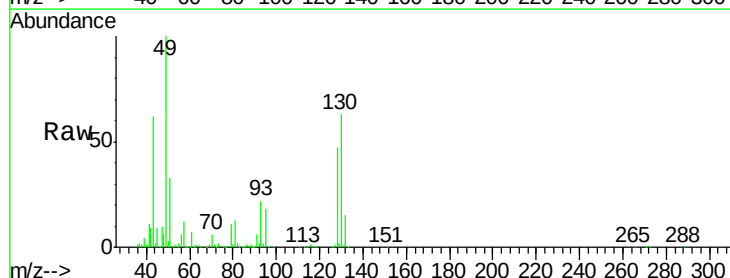
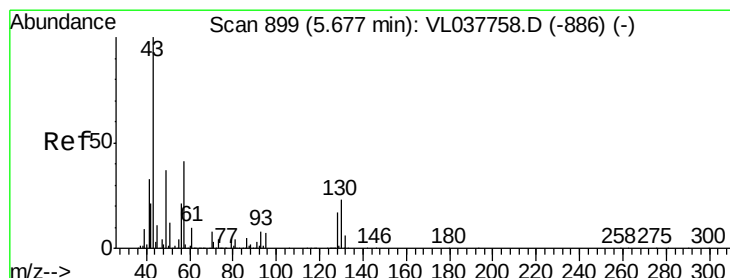
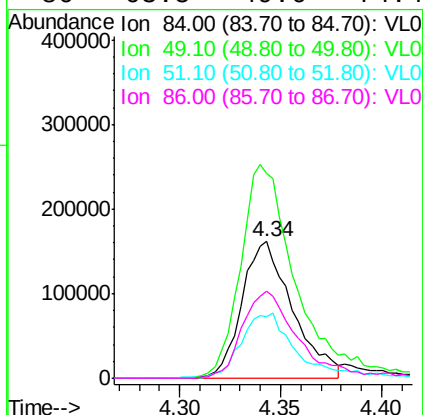


#20
Methylene Chloride
Concen: 4.842 ppbv
RT: 4.34
Delta R.T.:
Lab File: MSVOA_1
Acq: 13 Oct 2021 3:00
ClientSampleId: VIBLK

Tot Ion:
Ion Ratio
84 100
49 149.
51 44.
86 63.5 49.6 74.4

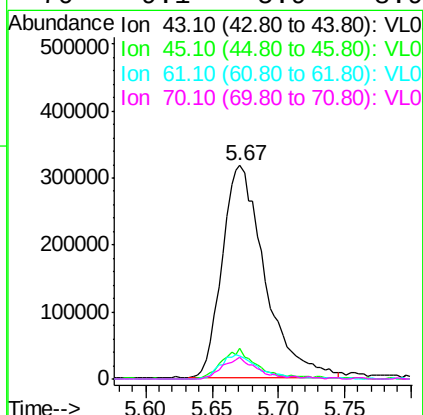
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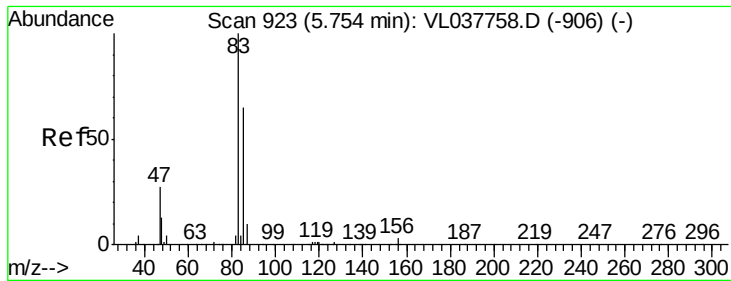
Reviewed By :Semsettin Yesilyurt 10/14/2021
Supervised By :Mahesh Dadoda 10/15/2021



#25
Ethyl Acetate
Concen: 2.176 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.01 min
Lab File: VL037848.D
Acq: 13 Oct 2021 3:00

Tgt Ion: 43 Resp: 710461
Ion Ratio Lower Upper
43 100
45 11.8 8.1 12.1
61 10.5 7.5 11.3
70 9.1 5.9 8.9#



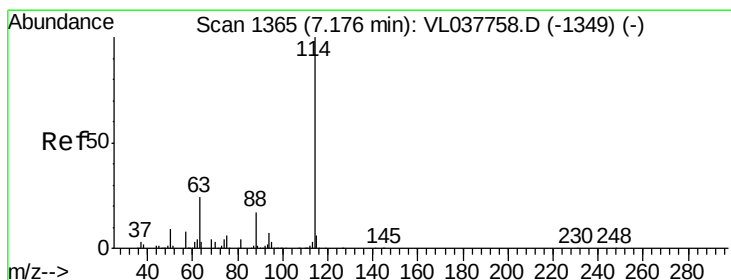
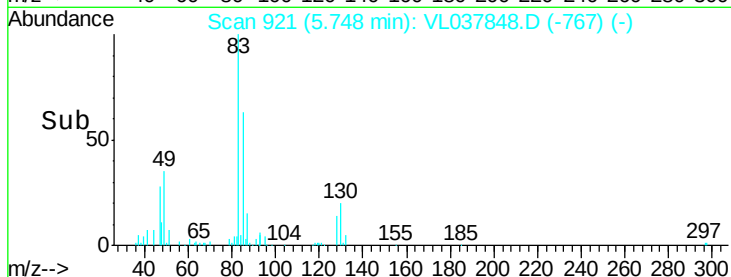
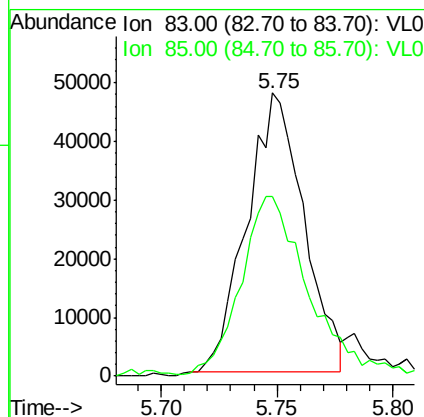
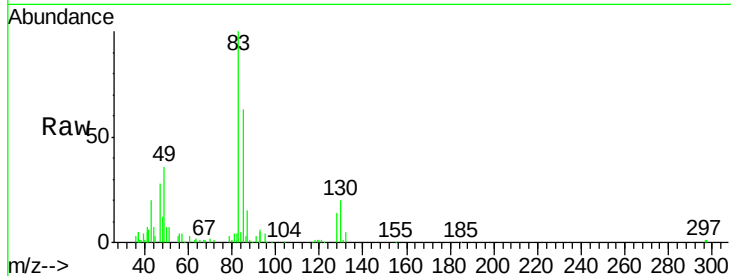


#29
Chloroform
Concen: 0.356 ppbv
RT: 5.75
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 13 Oct 2021 3:00

Tot Ion:
Ion Ratio
83 100
85 63.

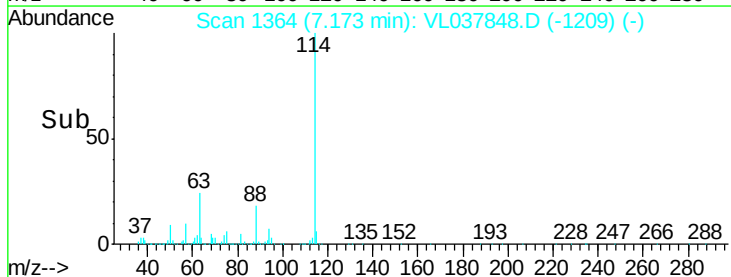
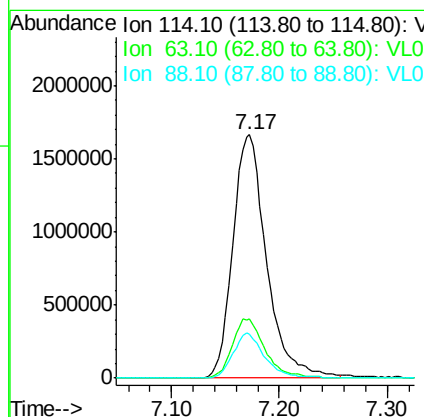
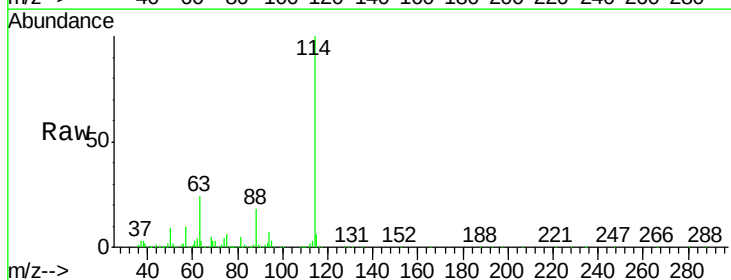
Manual Integrations
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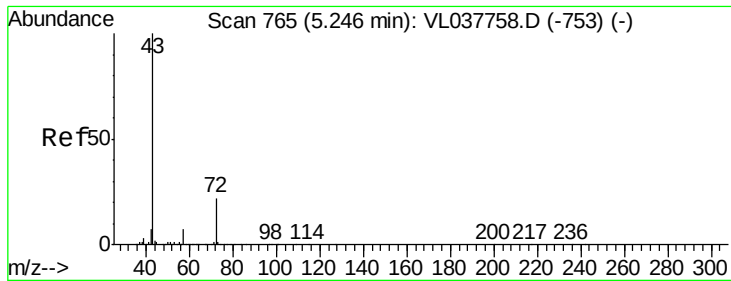
Reviewed By :Semsettin Yesilyurt 10/14/2021
Supervised By :Mahesh Dadoda 10/15/2021



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.00 min
Lab File: VL037848.D
Acq: 13 Oct 2021 3:00

Tgt Ion:114 Resp: 3626105
Ion Ratio Lower Upper
114 100
63 24.1 19.4 29.2
88 17.6 14.4 21.6



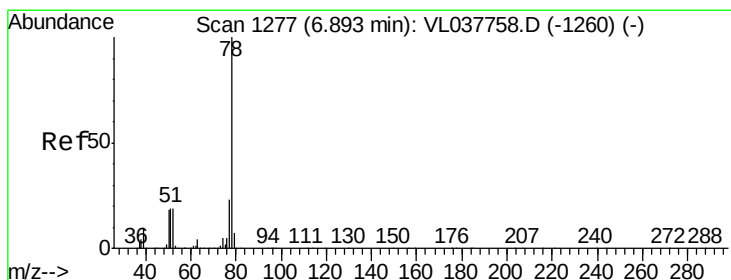
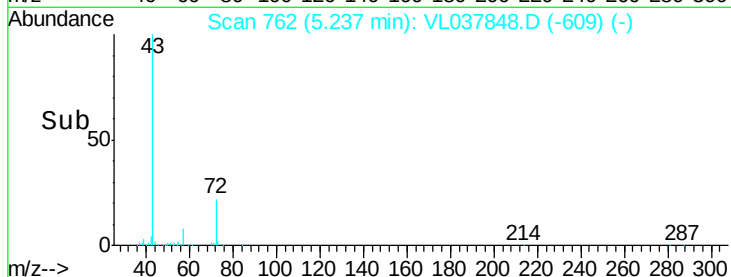
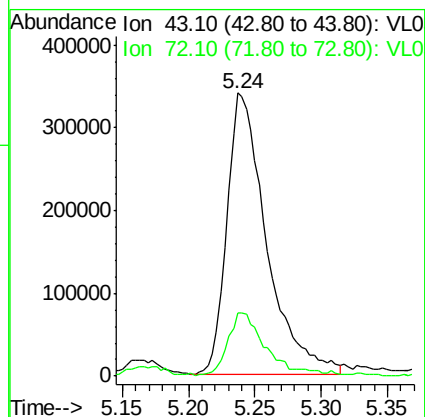
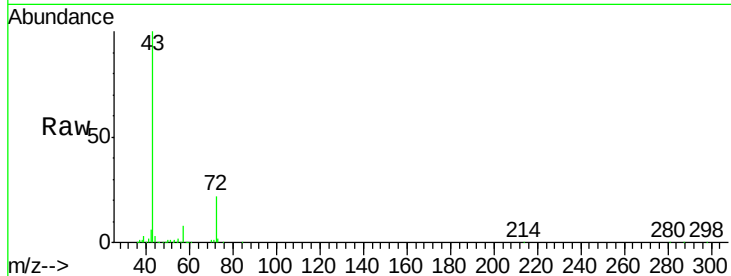


#34
2-Butanone
Concen: 4.820 ppbv
RT: 5.24
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 13 Oct 2021 3:00

Tot Ion:
Ion Ratio
43 100
72 22.

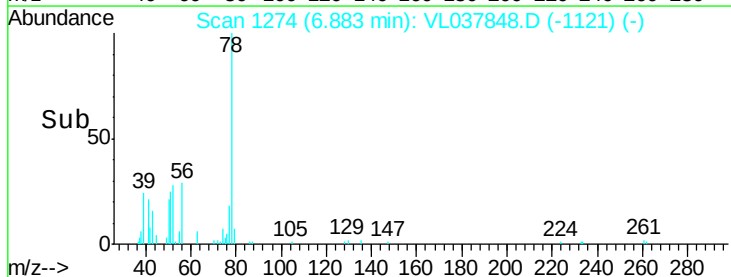
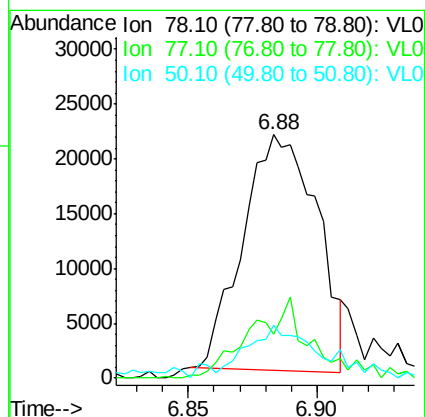
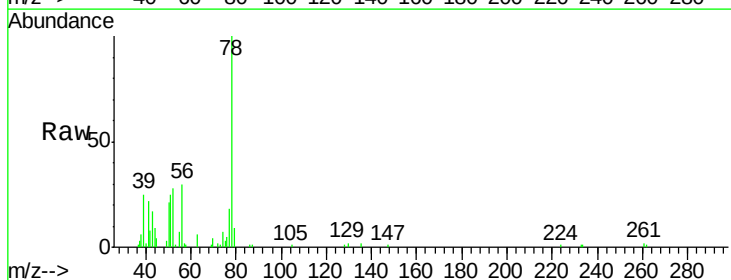
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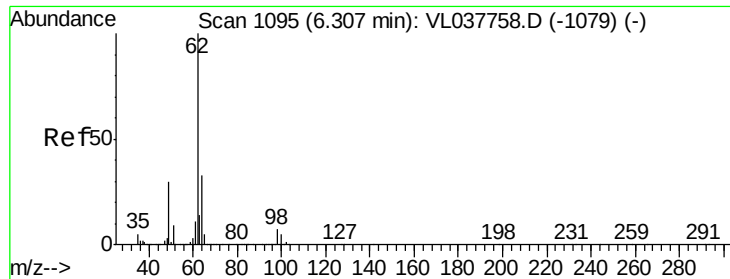
Reviewed By :Semsettin Yesilyurt 10/14/2021
Supervised By :Mahesh Dadoda 10/15/2021



#36
Benzene
Concen: 0.139 ppbv
RT: 6.88 min Scan# 1274
Delta R.T.: -0.01 min
Lab File: VL037848.D
Acq: 13 Oct 2021 3:00

Tgt Ion: 78 Resp: 43156
Ion Ratio Lower Upper
78 100
77 17.5 18.8 28.2#
50 22.5 14.7 22.1#



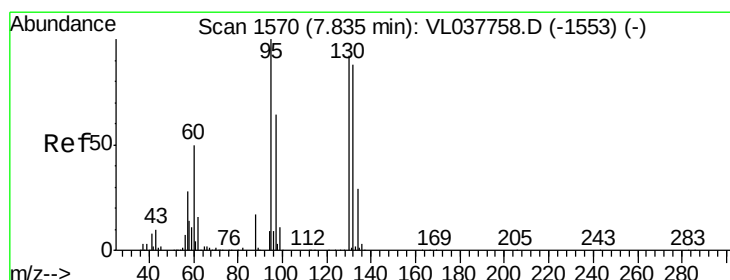
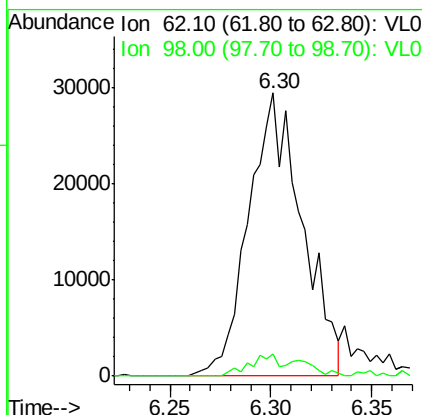
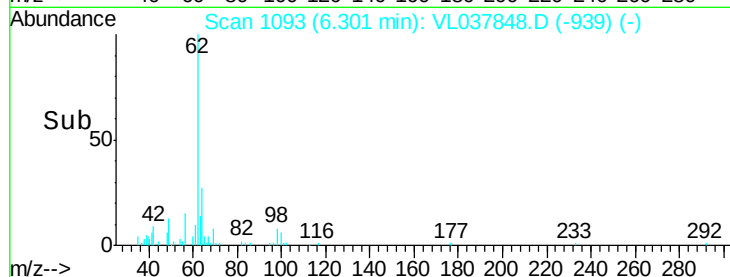
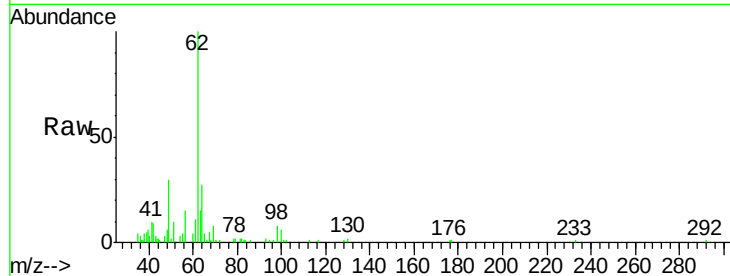


#37
 1,2-Dichloroethane
 Concen: 0.374 ppbv
 RT: 6.30
 Delta R.T.: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 13 Oct 2021 3:00

Tot Ion:
 Ion Ratio
 62 100
 98 7.

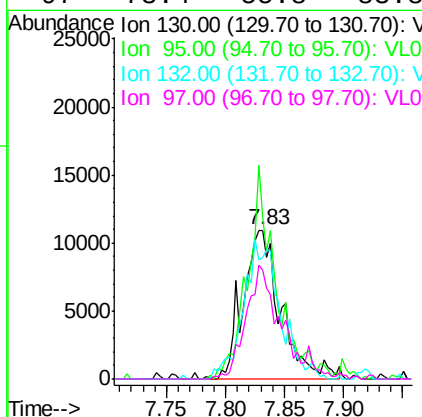
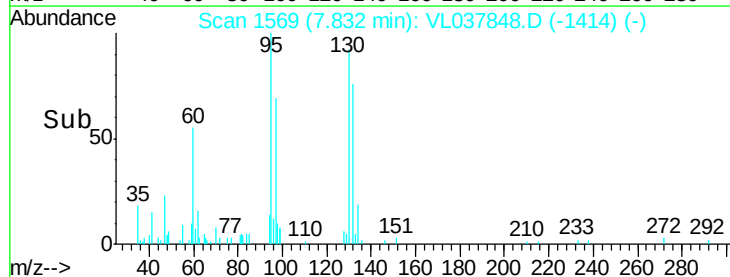
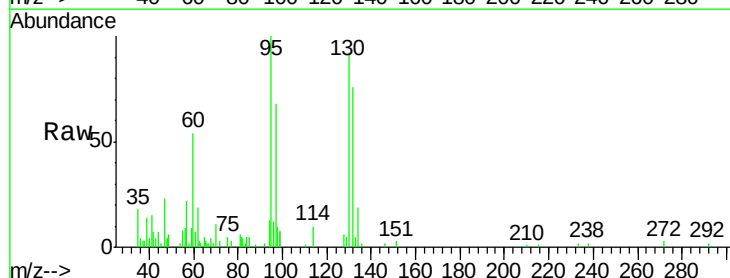
Manual Integrations
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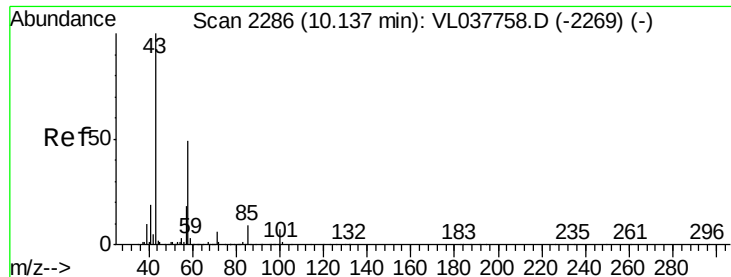
Reviewed By :Semsettin Yesilyurt 10/14/2021
 Supervised By :Mahesh Dadoda 10/15/2021



#38
 Trichloroethene
 Concen: 0.199 ppbv m
 RT: 7.83 min Scan# 1569
 Delta R.T.: -0.00 min
 Lab File: VL037848.D
 Acq: 13 Oct 2021 3:00

Tgt Ion:130 Resp: 24394
 Ion Ratio Lower Upper
 130 100
 95 108.2 87.4 131.0
 132 82.2 76.8 115.2
 97 73.4 55.8 83.8





#51

2-Hexanone

Concen: 0.461 ppbv m

RT: 10.15

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 13 Oct 2021 3:00

Tot Ion:

Ion Ratio

43 100

58 0.

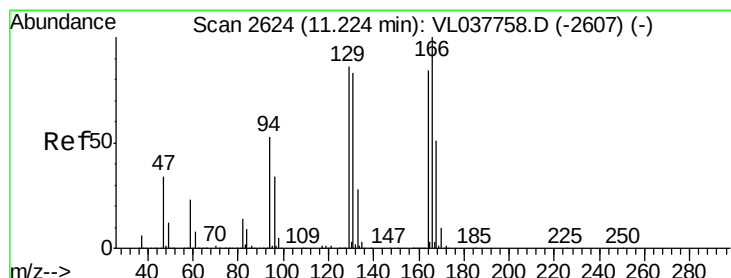
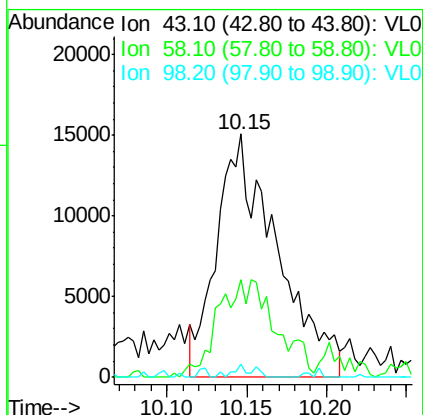
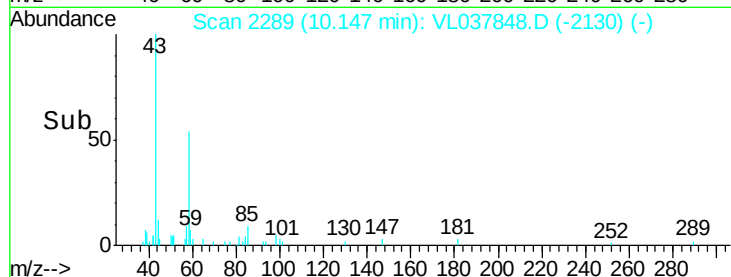
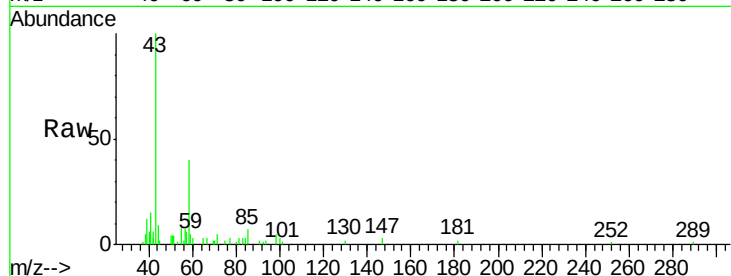
98 0.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/14/2021

Supervised By :Mahesh Dadoda 10/15/2021



#52

Tetrachloroethene

Concen: 13.781 ppbv

RT: 11.22 min Scan# 2622

Delta R.T. -0.01 min

Lab File: VL037848.D

Acq: 13 Oct 2021 3:00

Tgt Ion:164 Resp: 1660626

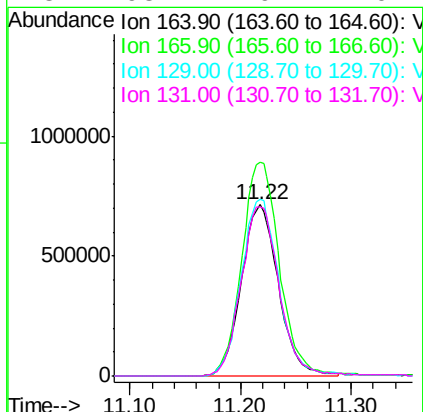
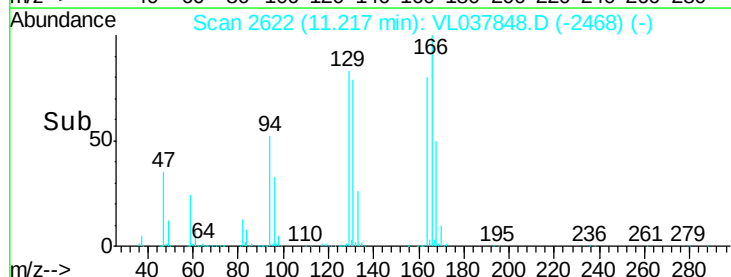
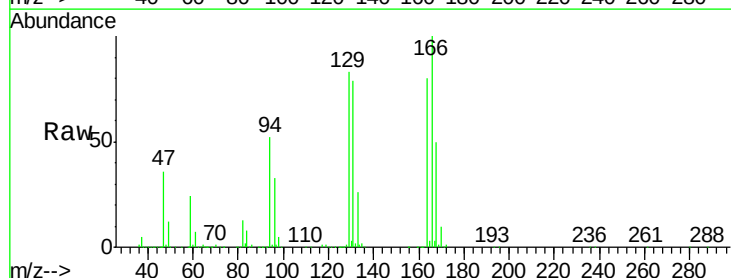
Ion Ratio Lower Upper

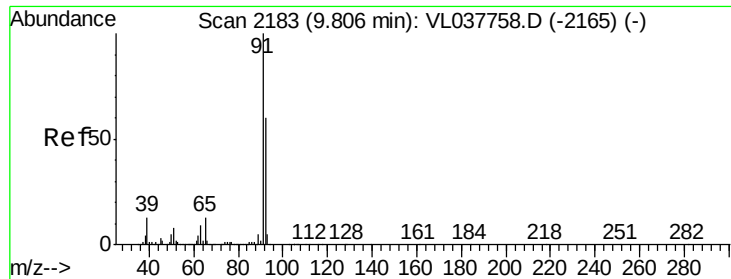
164 100

166 124.5 95.4 143.2

129 103.1 82.2 123.4

131 98.7 79.4 119.2





#53

Toluene

Concen: 2.555 ppbv

RT: 9.80

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Oct 2021 3:00

Tot Ion:

Ion Ratio

91 100

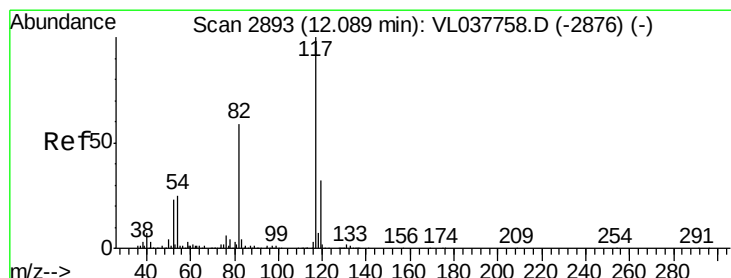
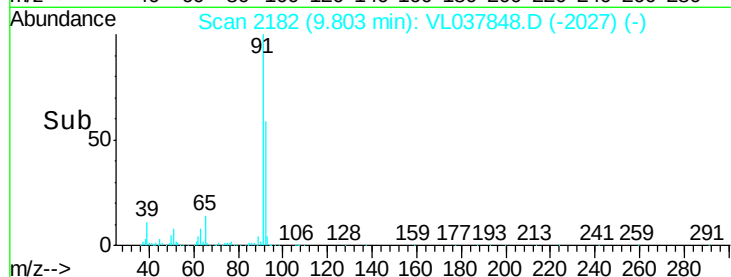
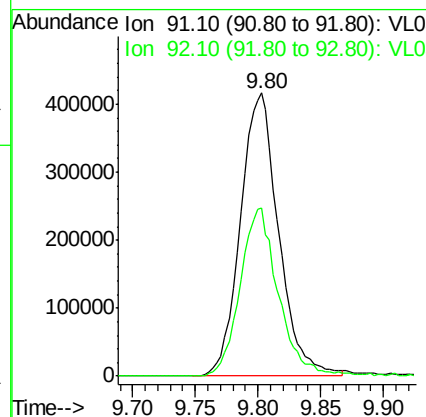
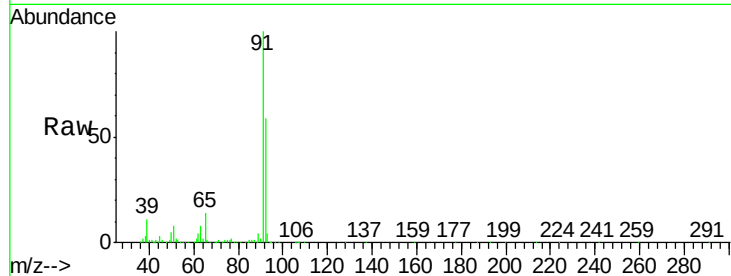
92 59.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/14/2021

Supervised By :Mahesh Dadoda 10/15/2021



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2890

Delta R.T. -0.01 min

Lab File: VL037848.D

Acq: 13 Oct 2021 3:00

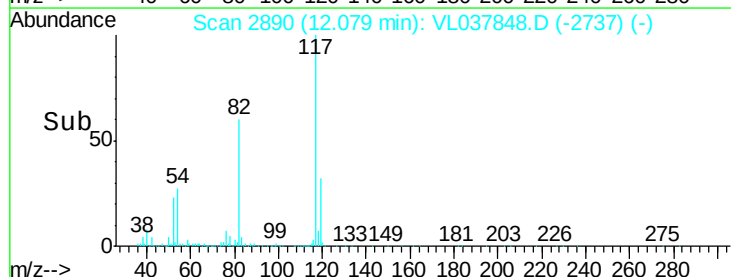
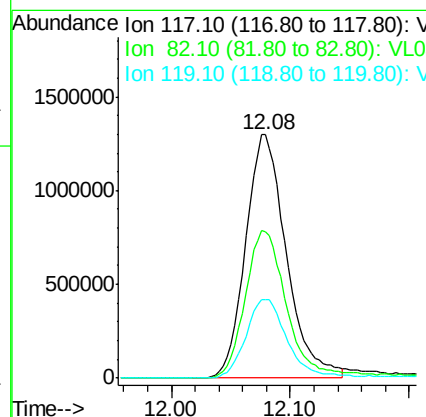
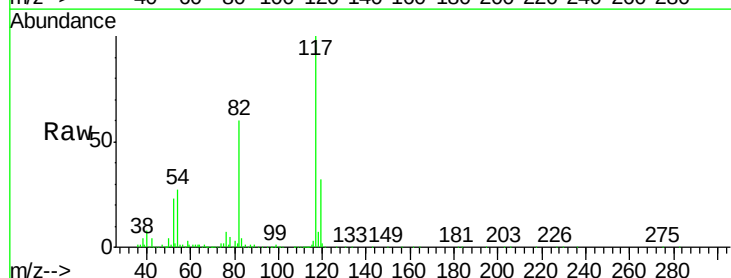
Tgt Ion:117 Resp: 3079269

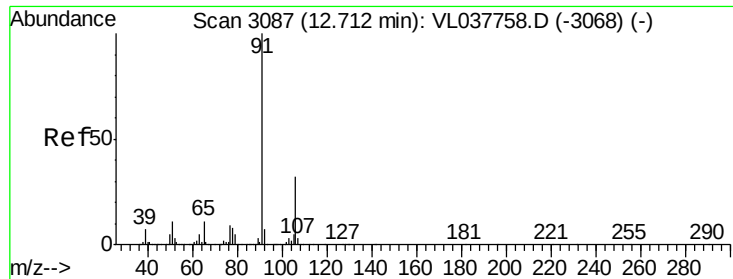
Ion Ratio Lower Upper

117 100

82 64.2 52.2 78.2

119 34.3 26.0 39.0





#58

Ethyl Benzene

Concen: 0.144 ppbv m

RT: 12.71

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 13 Oct 2021 3:00

Tot Ion:

Ion Ratio

91 100

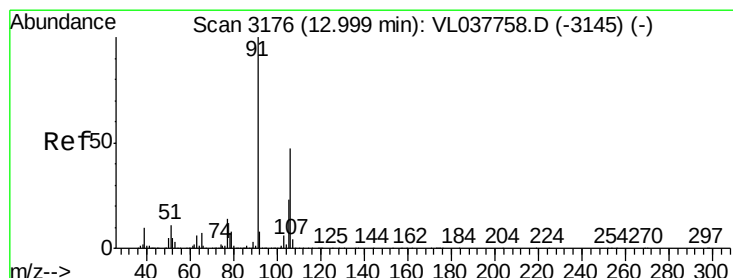
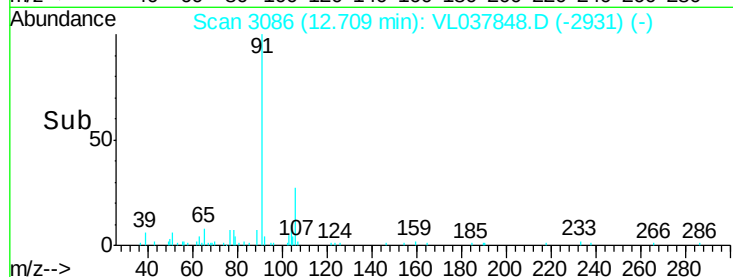
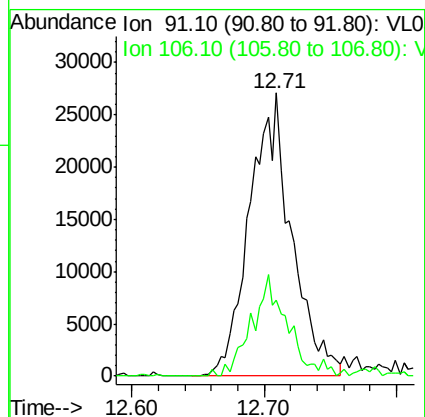
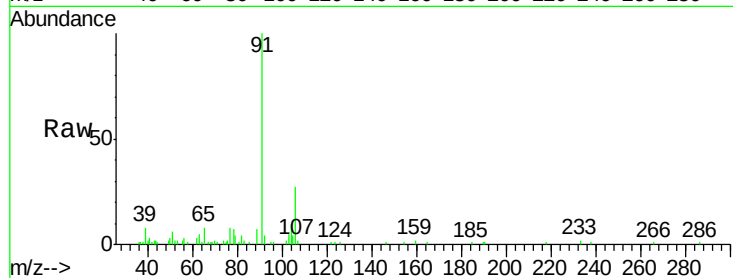
106 26.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/14/2021

Supervised By :Mahesh Dadoda 10/15/2021



#59

m/p-Xylene

Concen: 0.513 ppbv m

RT: 12.96 min Scan# 3163

Delta R.T. -0.04 min

Lab File: VL037848.D

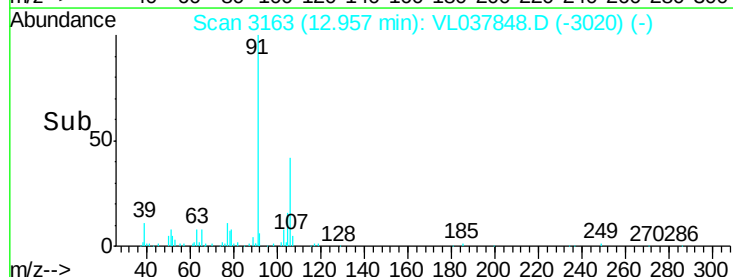
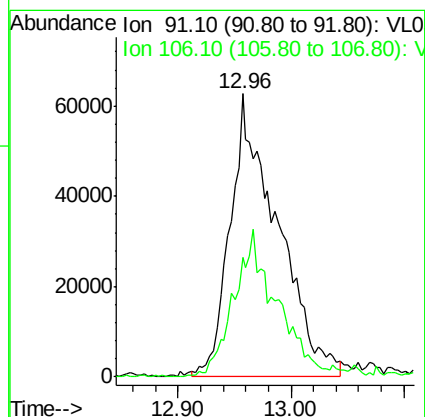
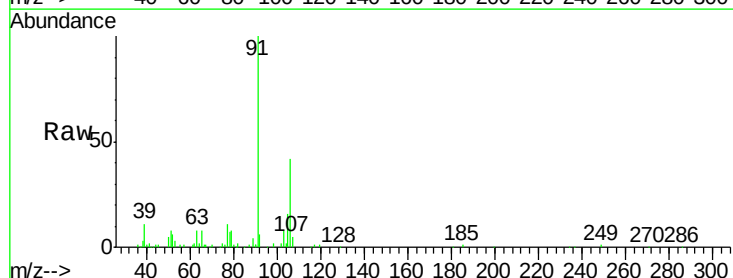
Acq: 13 Oct 2021 3:00

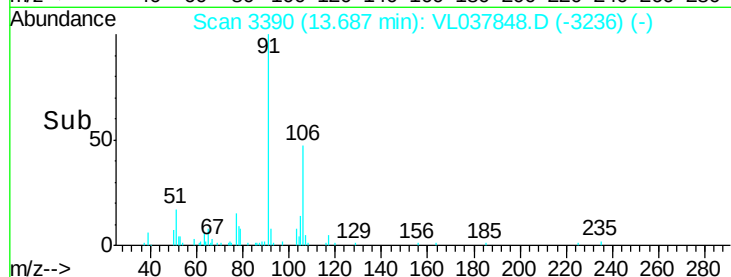
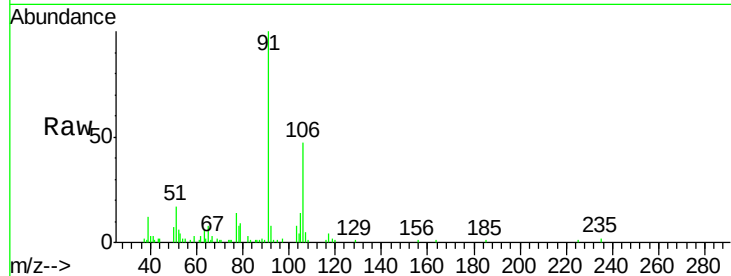
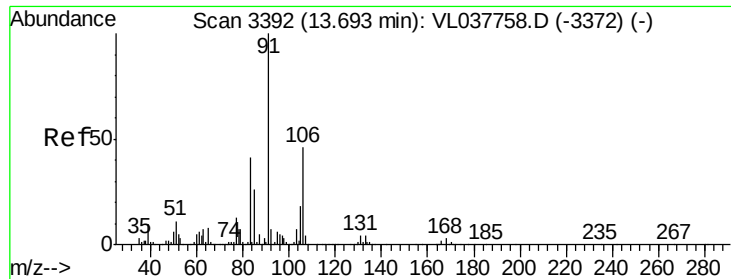
Tgt Ion: 91 Resp: 182112

Ion Ratio Lower Upper

91 100

106 0.0 36.7 55.1#



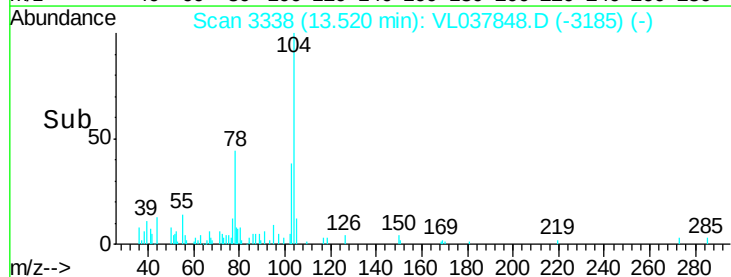
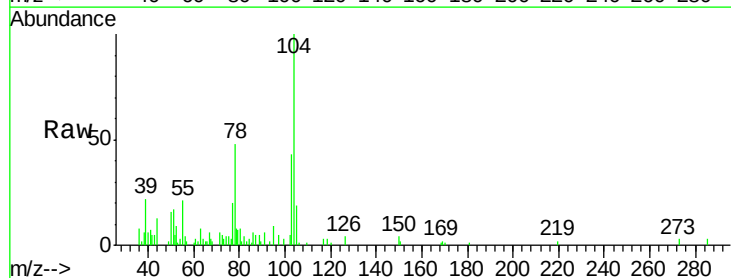
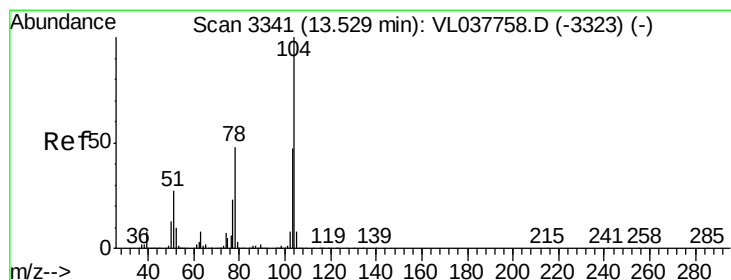
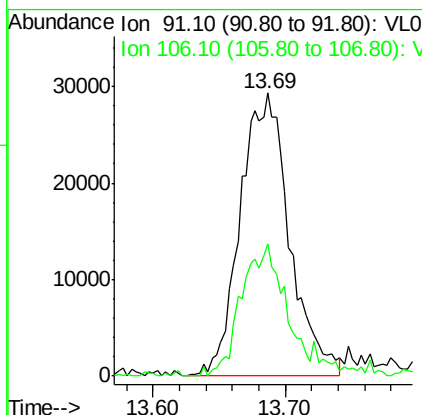


#60
o-Xylene
Concen: 0.224 ppbv m
RT: 13.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 13 Oct 2021 3:00

Tot Ion:
Ion Ratio
91 100
106 46.

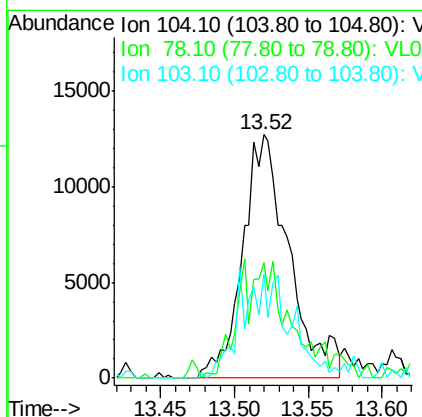
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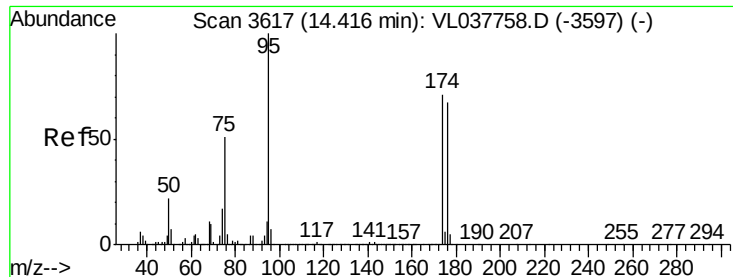
Reviewed By :Semsettin Yesilyurt 10/14/2021
Supervised By :Mahesh Dadoda 10/15/2021



#61
Styrene
Concen: 0.168 ppbv m
RT: 13.52 min Scan# 3338
Delta R.T. -0.01 min
Lab File: VL037848.D
Acq: 13 Oct 2021 3:00

Tgt Ion:104 Resp: 27676
Ion Ratio Lower Upper
104 100
78 0.0 40.6 61.0#
103 0.0 39.6 59.4#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.050 ppbv

RT: 14.41

Delta R.T

Lab File: ClientSampleId :

Acq: 13 Oct 2021 3.00

Tot Ion:

Ion Ratio

95 100

174 75.

175 5.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/14/2021

Supervised By :Mahesh Dadoda 10/15/2021

