

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101221\
 Data File : VL037836.D
 Acq On : 12 Oct 2021 19:15
 Operator : SY/AP
 Sample : M4079-06
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 C0P48

Manual Integrations
 APPROVED

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

Quant Time: Oct 14 02:03:10 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL100421A
 Quant Title : AIR ANALYSIS BY METHOD T0-15 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	1347567	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3768244	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3278579	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2166449	9.45	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.50%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.05	85	43191	0.201	ppbv	96
3) Chlorodifluoromethane	2.99	51	90236	0.349	ppbv	97
4) Chloromethane	3.14	50	31279	0.330	ppbv #	86
9) Propene	3.01	41	136807	1.436	ppbv	89
11) Trichlorofluoromethane	3.95	101	37702	0.196	ppbv	99
13) Ethanol	3.61	45	392093	50.324	ppbv	84
15) Acetone	3.84	43	2773971	22.931	ppbv	99
17) tert-Butyl alcohol	4.30	59	41435m	0.333	ppbv	
19) Isopropyl Alcohol	3.97	45	77089m	1.024	ppbv	
20) Methylene Chloride	4.34	84	1297485	21.228	ppbv	97
26) Hexane	5.68	57	854491	5.112	ppbv #	45
29) Chloroform	5.75	83	26592m	0.111	ppbv	
32) 1,1,1-Trichloroethane	6.50	97	18100m	0.080	ppbv	
34) 2-Butanone	5.24	43	387743	2.549	ppbv	96
35) Carbon Tetrachloride	7.01	117	10745m	0.050	ppbv	
36) Benzene	6.89	78	36152m	0.112	ppbv	
38) Trichloroethene	7.82	130	4120m	0.032	ppbv	
52) Tetrachloroethene	11.22	164	7148608	57.087	ppbv	97
53) Toluene	9.80	91	81519m	0.229	ppbv	
58) Ethyl Benzene	12.71	91	67944	0.154	ppbv #	85
59) m/p-Xylene	12.96	91	277391m	0.734	ppbv	
60) o-Xylene	13.68	91	78984m	0.218	ppbv	

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

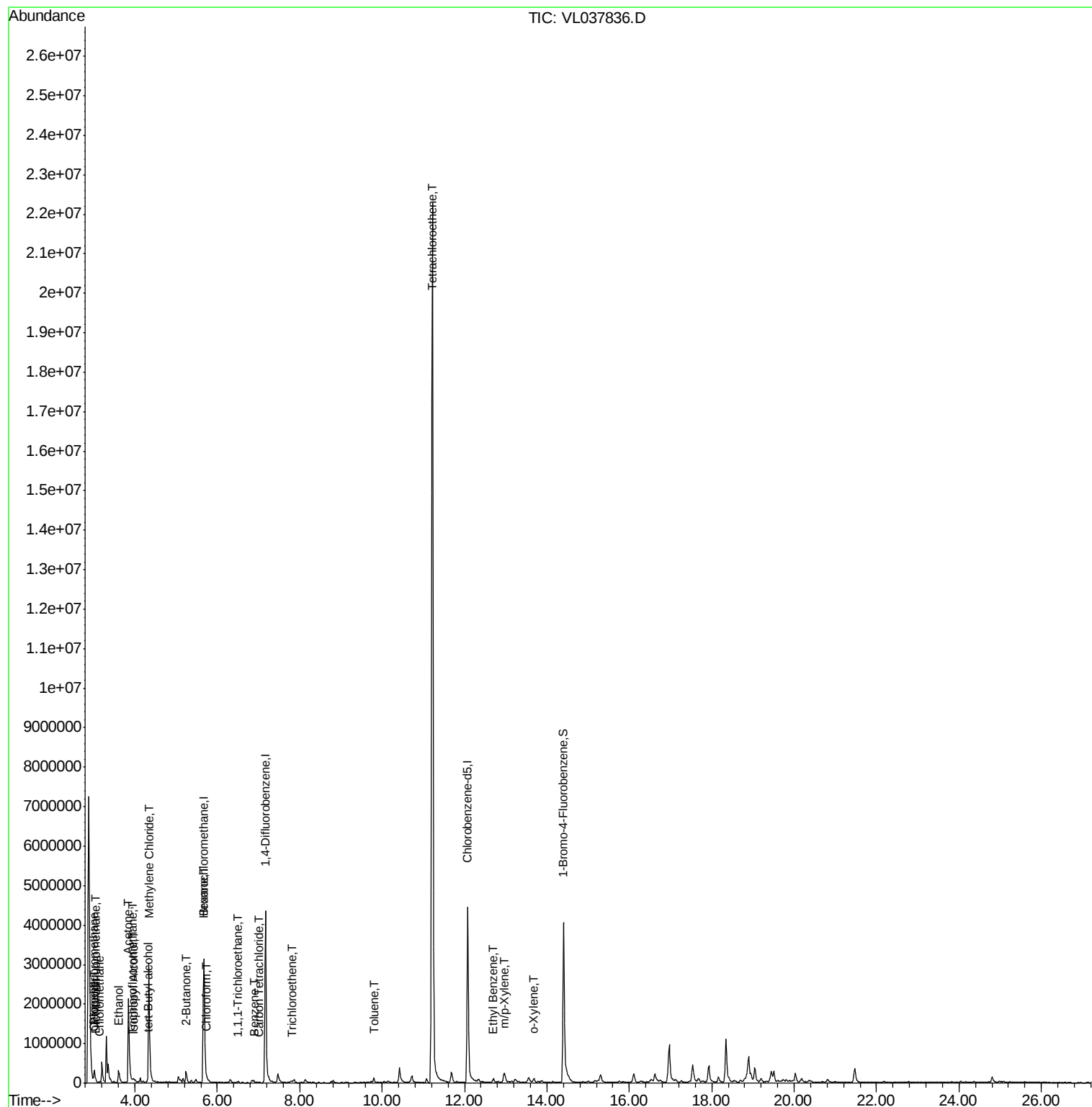
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101221\
Data File : VL037836.D
Acq On : 12 Oct 2021 19:15
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ALS Vial : 1 Sample Multiplier: 1

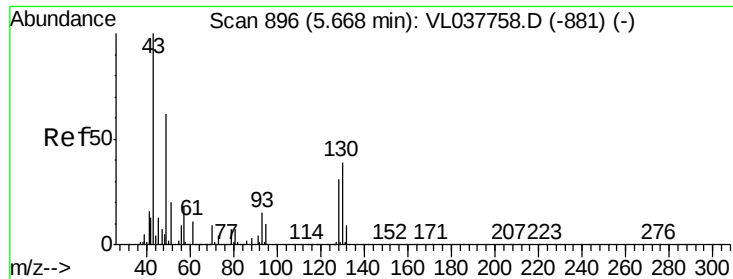
Instrument :
MSVOA_L
ClientSampleId :
C0P48

Manual Integrations
APPROVED

Quant Time: Oct 14 02:03:10 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL100421.M
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

Delta R.T. MSVOA_L

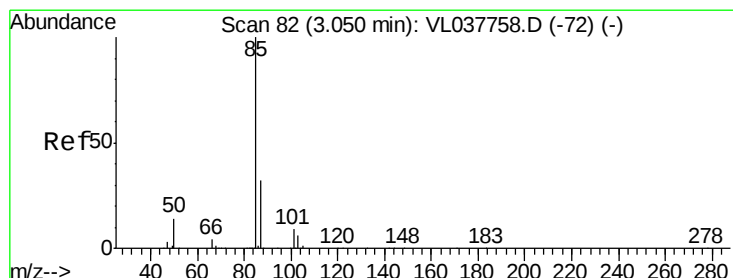
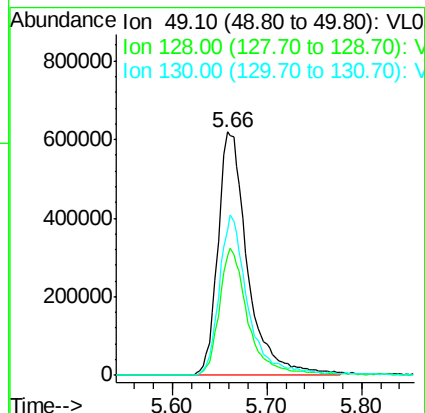
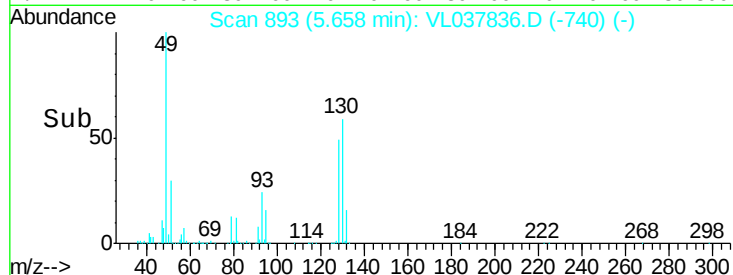
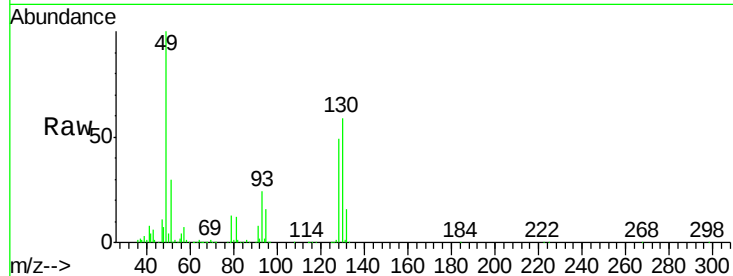
Lab File: ClientSampleId :

Acq: 12 Oct 2021 19:15

Tot Ion:
Ion Ratio
49 100
128 51.
130 65.

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#2

Dichlorodifluoromethane

Concen: 0.201 ppbv

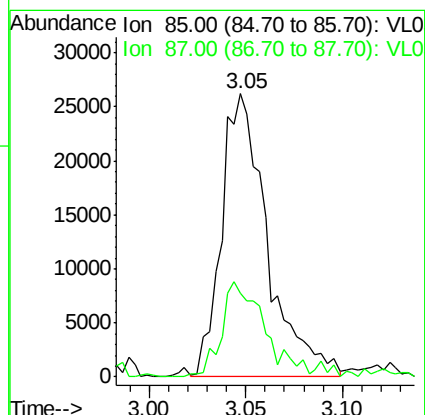
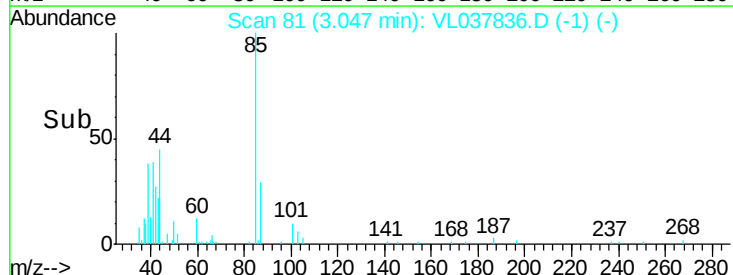
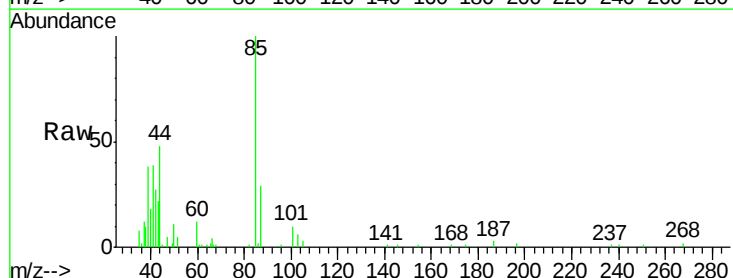
RT: 3.05 min Scan# 81

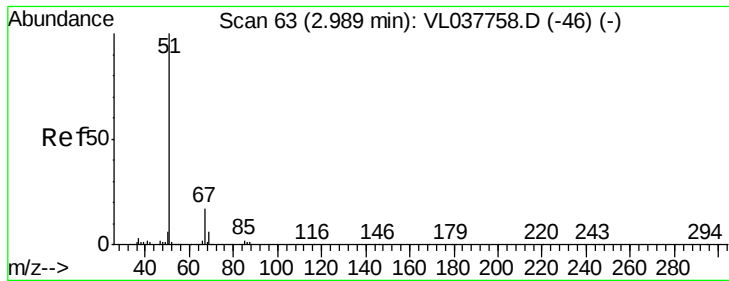
Delta R.T. -0.00 min

Lab File: VL037836.D

Acq: 12 Oct 2021 19:15

Tgt Ion: 85 Resp: 43191
Ion Ratio Lower Upper
85 100
87 29.7 25.7 38.5





#3

Chlorodifluoromethane

Concen: 0.349 ppbv

RT: 2.99 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 12 Oct 2021 19:15 C0P48

Tot Ion:

Ion Ratio

51 100

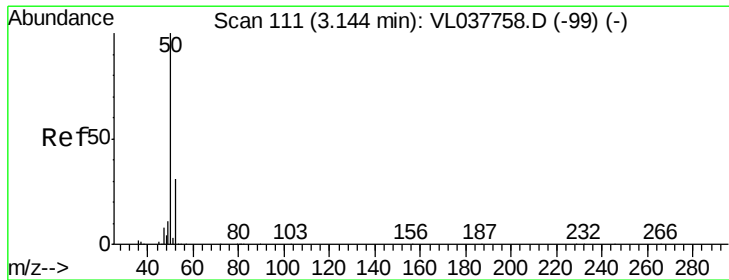
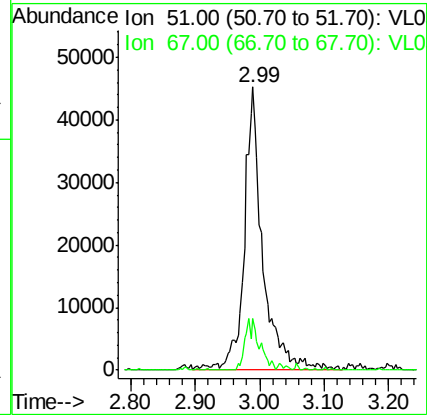
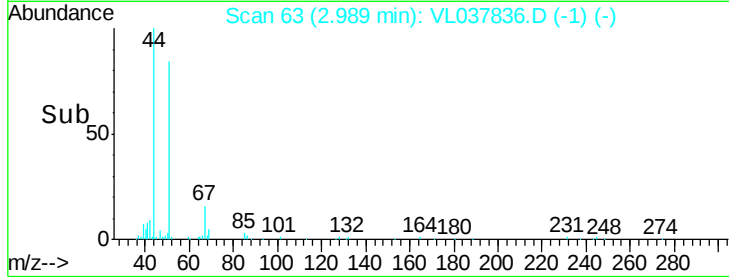
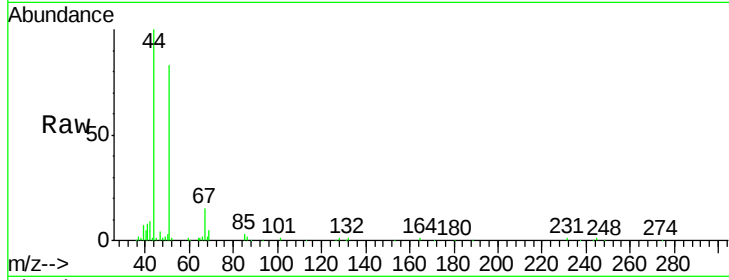
67 15.

Manual Integrations

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Supervised By :Mahesh Dadoda 10/15/2021



#4

Chloromethane

Concen: 0.330 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL037836.D

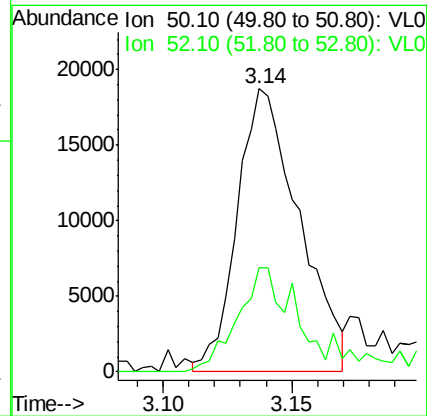
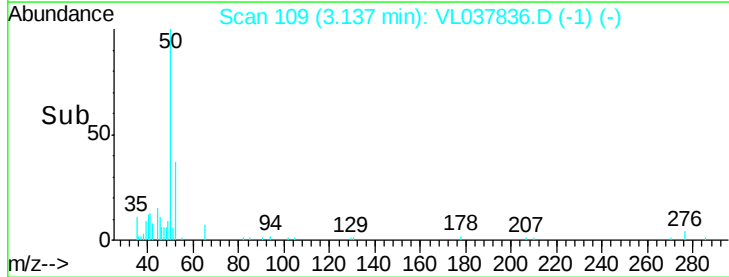
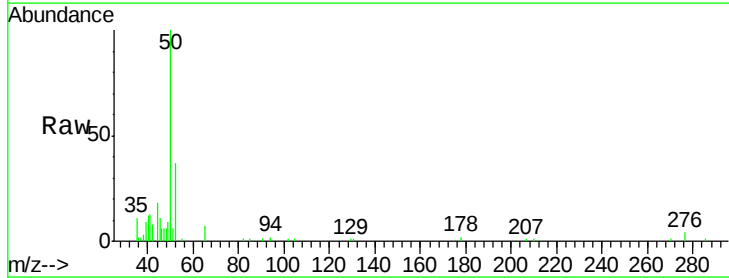
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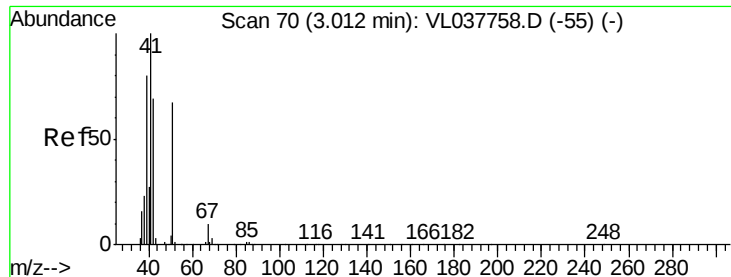
Tgt Ion: 50 Resp: 31279

Ion Ratio Lower Upper

50 100

52 38.3 24.4 36.6#



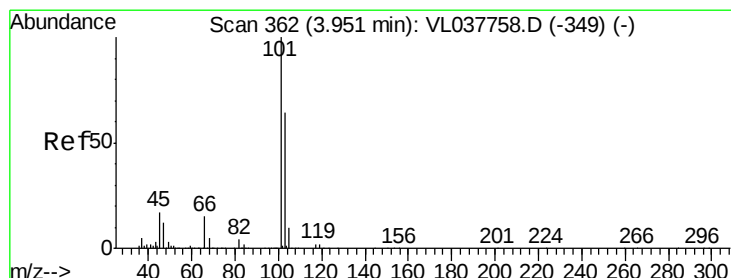
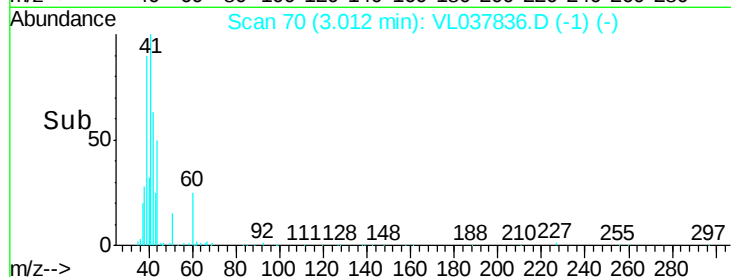
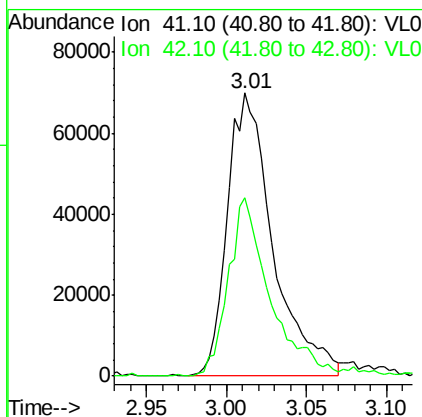
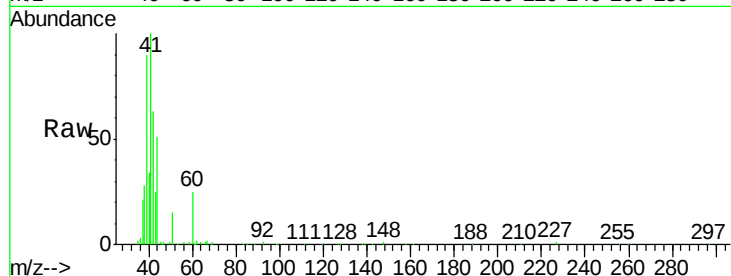


#9
 Propene
 Concen: 1.436 ppbv
 RT: 3.01
 Delta R.T.: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 12 Oct 2021 19:15

Tot Ion:
 Ion Ratio
 41 100
 42 59.

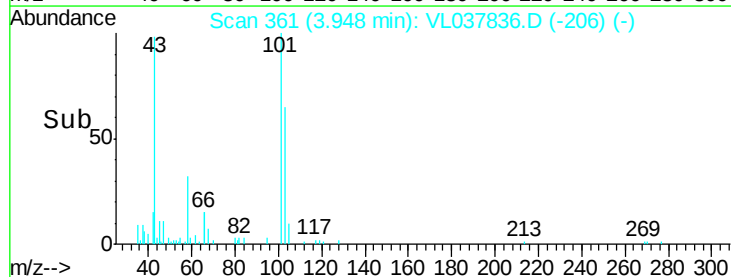
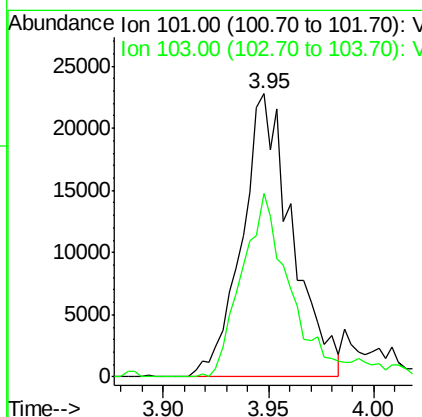
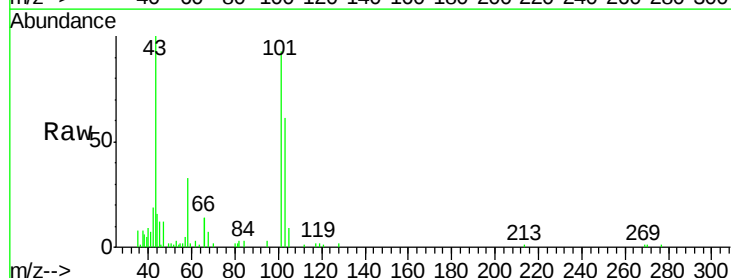
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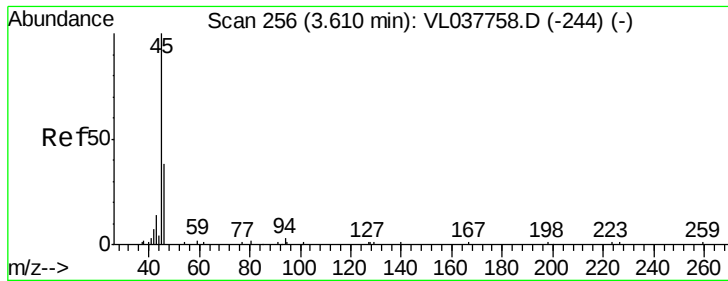
Reviewed By :Semsettin Yesilyurt 10/14/2021
 Supervised By :Mahesh Dadoda 10/15/2021



#11
 Trichlorofluoromethane
 Concen: 0.196 ppbv
 RT: 3.95 min Scan# 361
 Delta R.T.: -0.00 min
 Lab File: VL037836.D
 Acq: 12 Oct 2021 19:15

Tgt Ion:101 Resp: 37702
 Ion Ratio Lower Upper
 101 100
 103 65.1 51.5 77.3



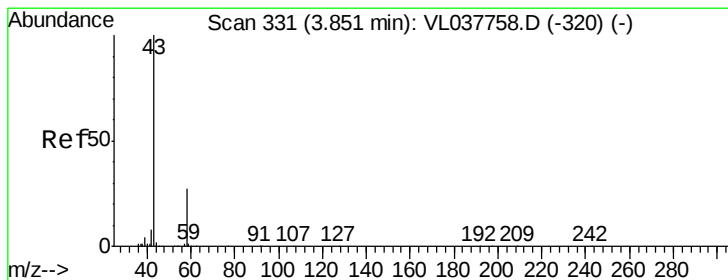
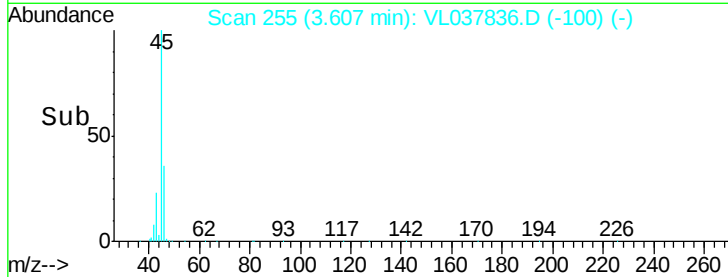
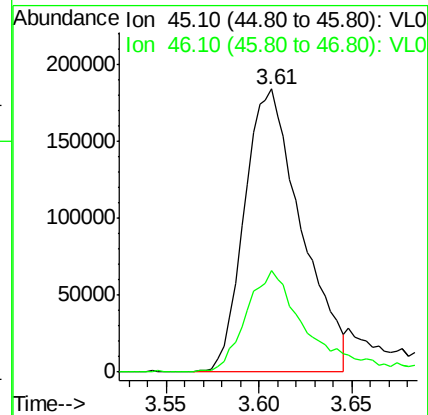
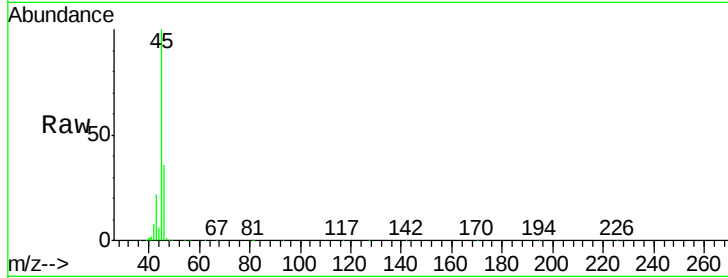


#13
Ethanol
Concen: 50.324 ppbv
RT: 3.61
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 12 Oct 2021 19:15

Tot Ion:
Ion Ratio
45 100
46 39.

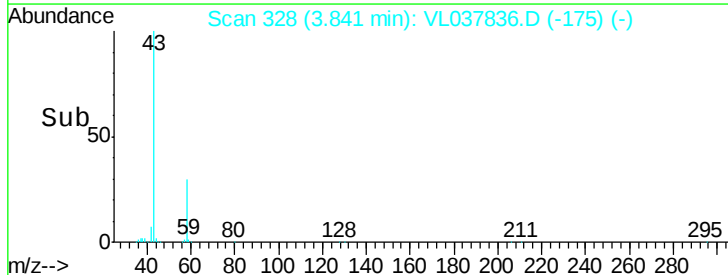
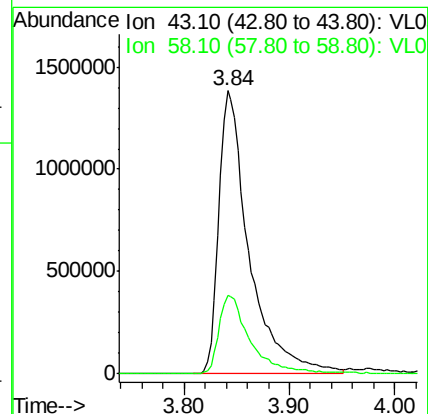
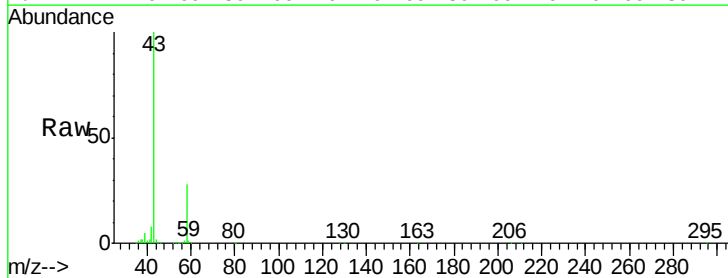
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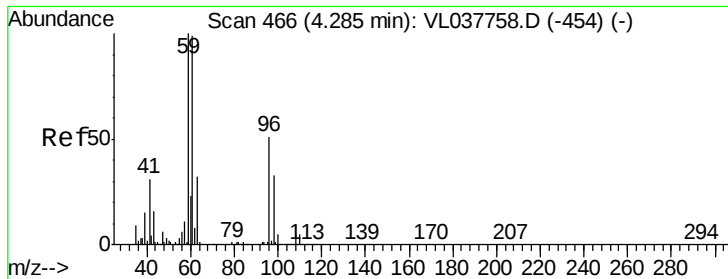
Reviewed By :Semsettin Yesilyurt 10/14/2021
Supervised By :Mahesh Dadoda 10/15/2021



#15
Acetone
Concen: 22.931 ppbv
RT: 3.84 min Scan# 328
Delta R.T. -0.01 min
Lab File: VL037836.D
Acq: 12 Oct 2021 19:15

Tgt Ion: 43 Resp: 2773971
Ion Ratio Lower Upper
43 100
58 29.3 23.0 34.6





#17

tert-Butyl alcohol

Concen: 0.333 ppbv m

RT: 4.30 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 12 Oct 2021 19:15

Tot Ion:

Ion Ratio

59 100

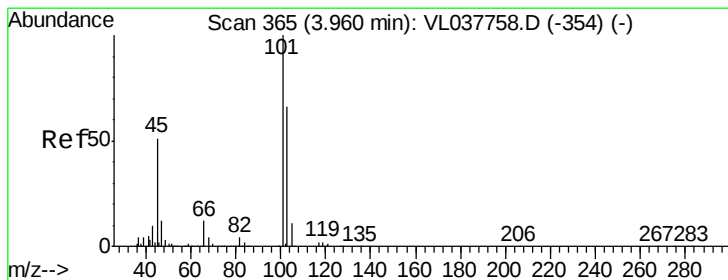
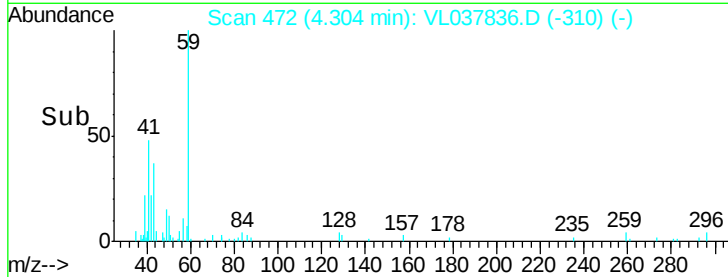
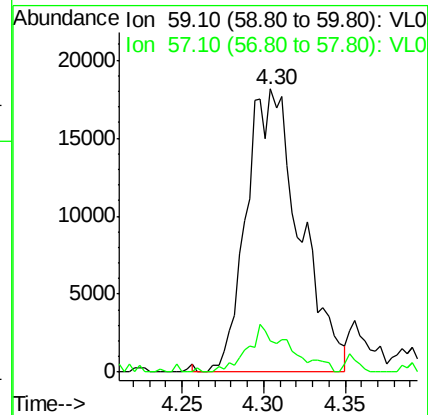
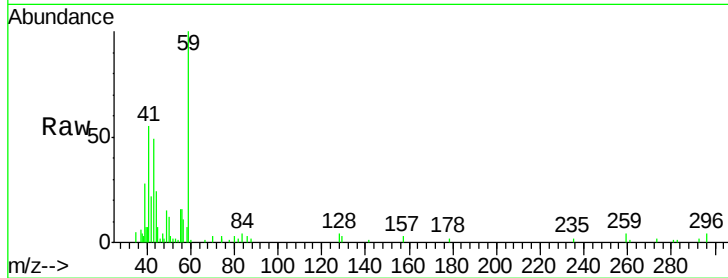
57 13.

Manual Integrations

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Supervised By :Mahesh Dadoda 10/15/2021



#19

Isopropyl Alcohol

Concen: 1.024 ppbv m

RT: 3.97 min Scan# 368

Delta R.T. 0.01 min

Lab File: VL037836.D

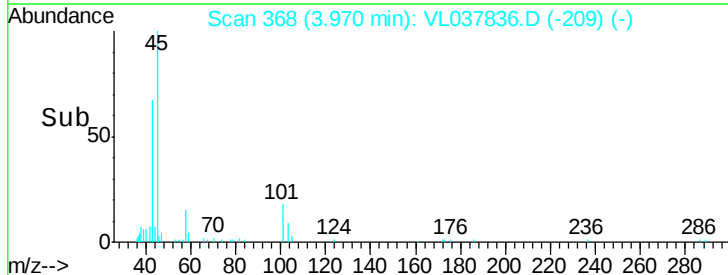
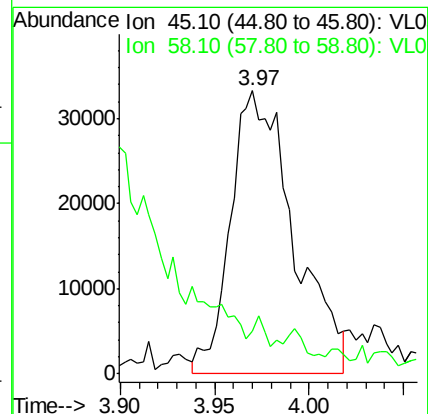
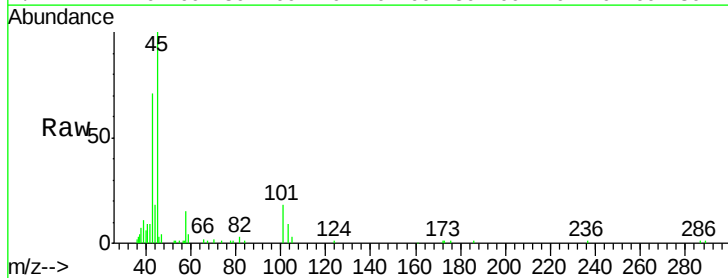
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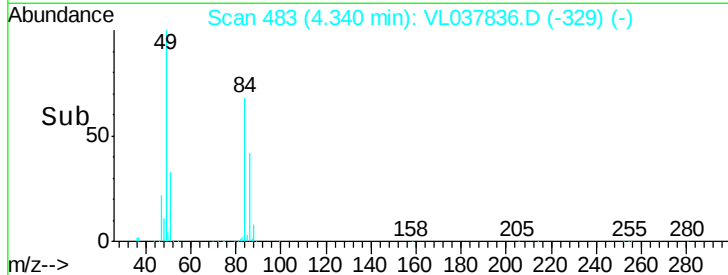
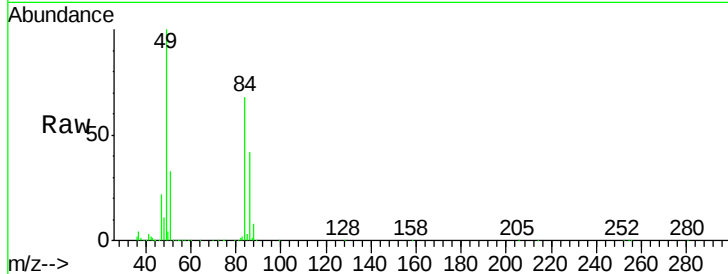
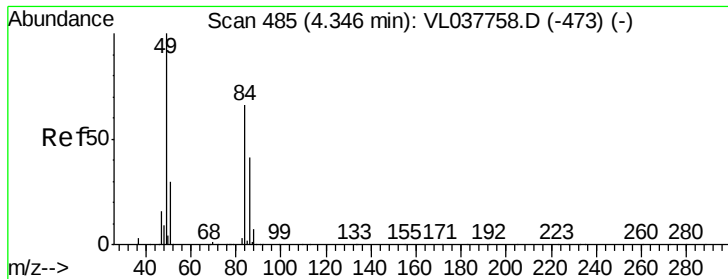
Tgt Ion: 45 Resp: 77089

Ion Ratio Lower Upper

45 100

58 0.0 1.1 1.7#



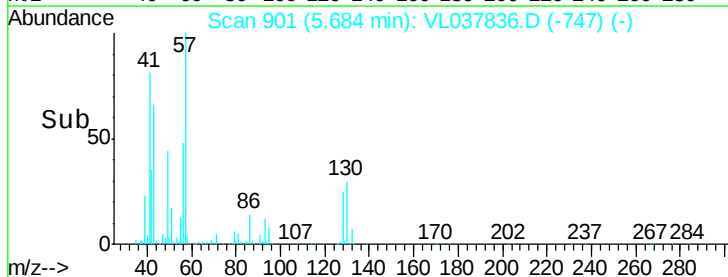
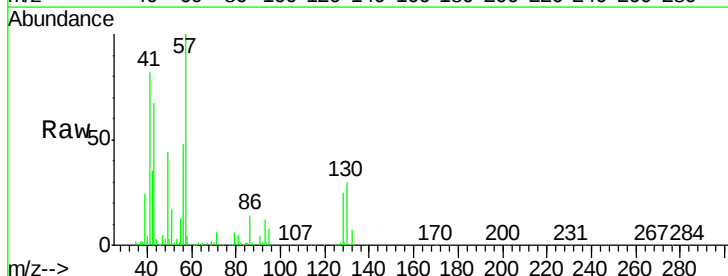
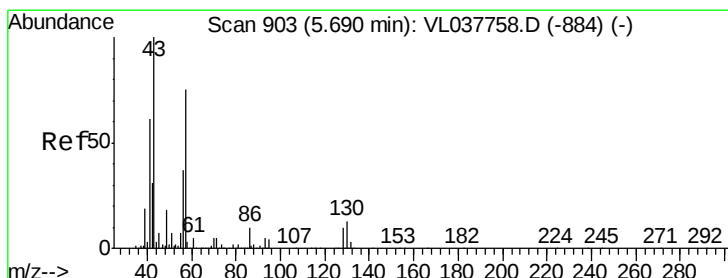
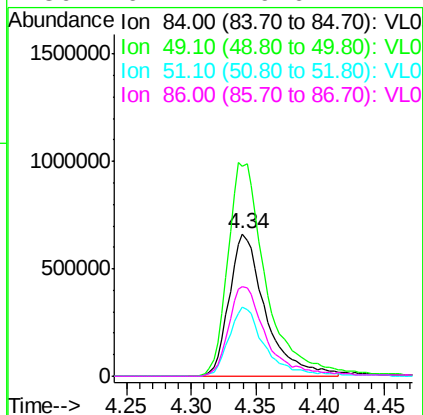


#20
Methvlene Chloride
Concen: 21.228 ppbv
RT: 4.34
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 12 Oct 2021 19:15

Tot Ion:
Ion Ratio
84 100
49 147.
51 48.
86 62.7 49.6 74.4

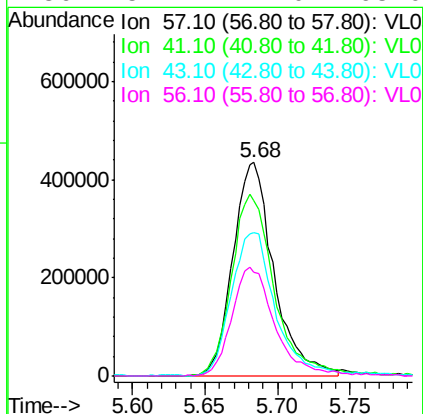
Manual Integrations APPROVED

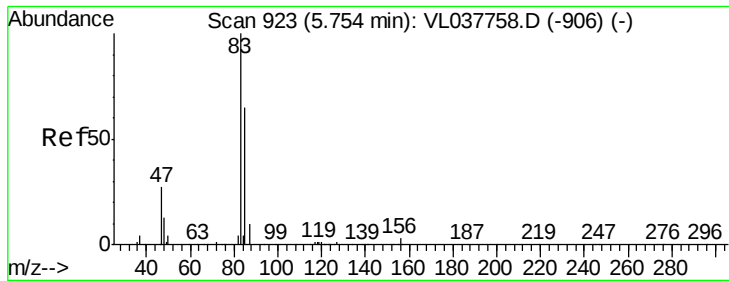
Reviewed By :Semsettin Yesilyurt 10/14/2021
Supervised By :Mahesh Dadoda 10/15/2021



#26
Hexane
Concen: 5.112 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.01 min
Lab File: VL037836.D
Acq: 12 Oct 2021 19:15

Tgt Ion: 57 Resp: 854491
Ion Ratio Lower Upper
57 100
41 90.8 69.6 104.4
43 73.3 171.4 257.0#
56 54.2 42.0 63.0



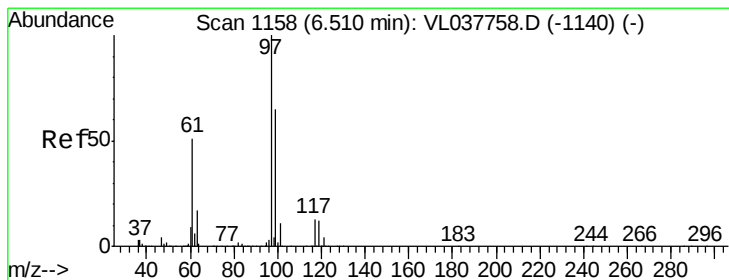
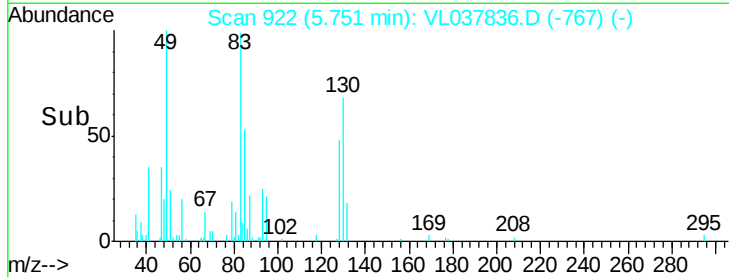
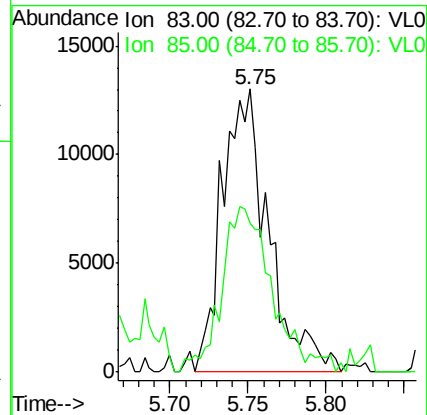
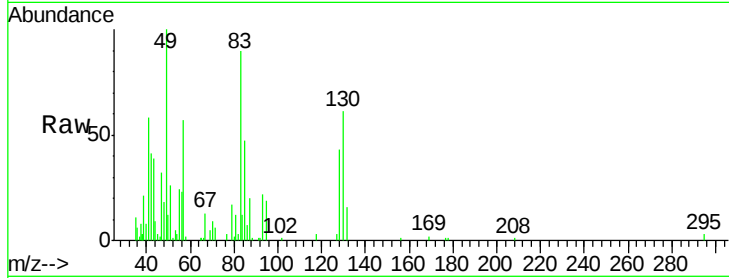


#29
Chloroform
Concen: 0.111 ppbv m
RT: 5.75
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 12 Oct 2021 19:15

Tot Ion:
Ion Ratio
83 100
85 52.

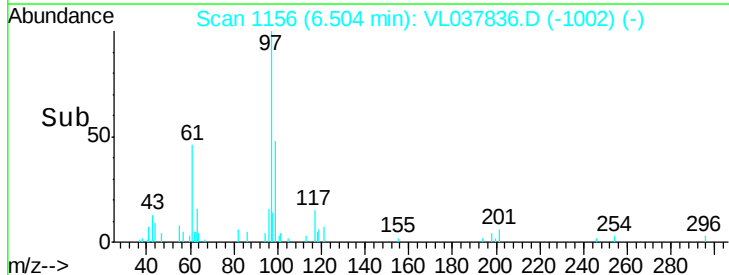
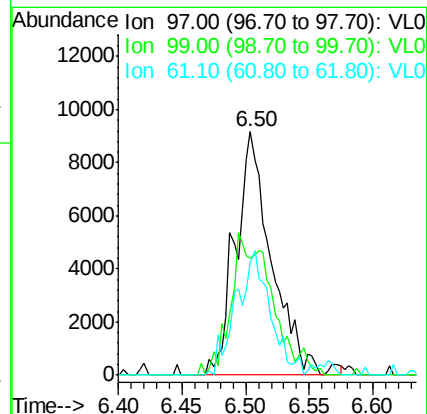
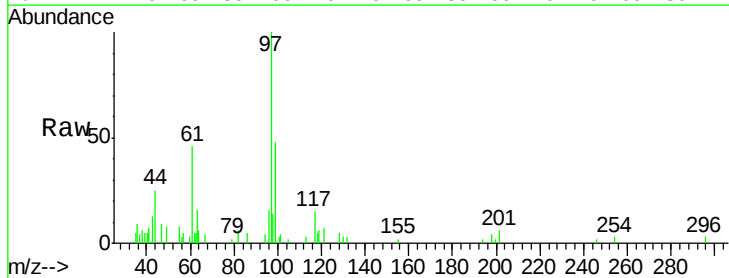
Manual Integrations
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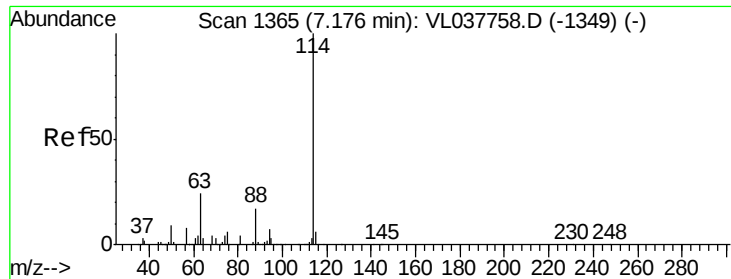
Reviewed By :Semsettin Yesilyurt 10/14/2021
Supervised By :Mahesh Dadoda 10/15/2021



#32
1,1,1-Trichloroethane
Concen: 0.080 ppbv m
RT: 6.50 min Scan# 1156
Delta R.T. -0.01 min
Lab File: VL037836.D
Acq: 12 Oct 2021 19:15

Tgt Ion: 97 Resp: 18100
Ion Ratio Lower Upper
97 100
99 0.0 52.6 78.8#
61 48.1 40.2 60.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 12 Oct 2021 19:15

Tot Ion:1

Ion Rati

114 100

63 24.

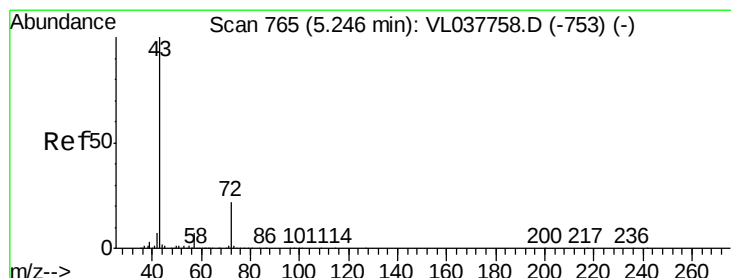
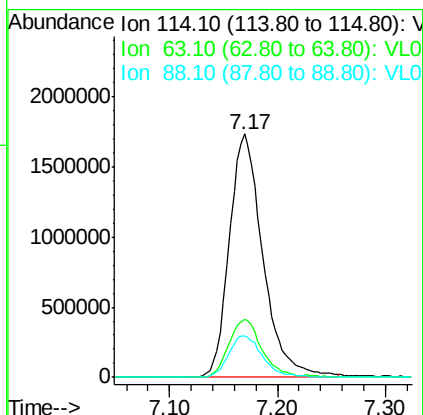
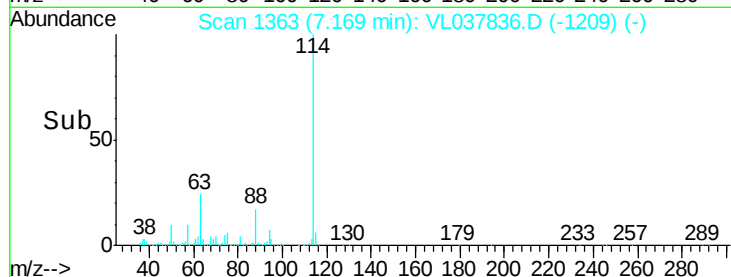
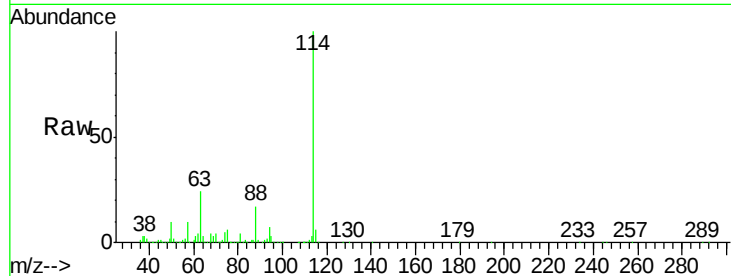
88 17.

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Reviewed By :Semsettin Yesilyurt 10/14/2021

Supervised By :Mahesh Dadoda 10/15/2021



#34

2-Butanone

Concen: 2.549 ppbv

RT: 5.24 min Scan# 764

Delta R.T. -0.00 min

Lab File: VL037836.D

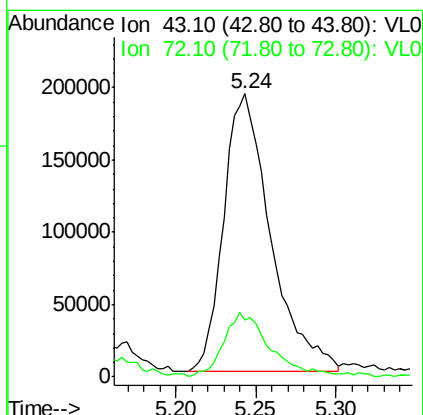
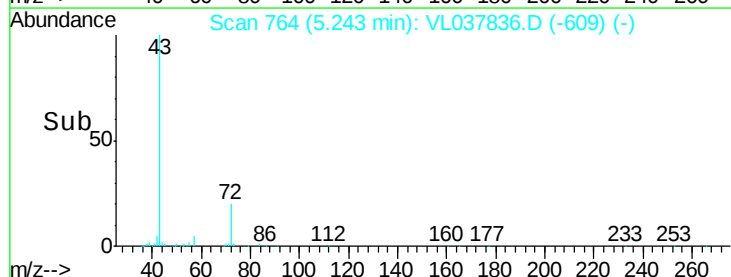
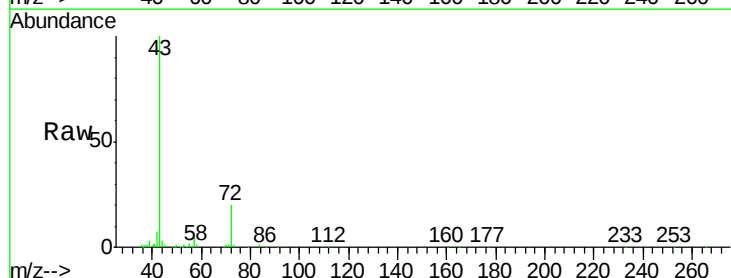
Acq: 12 Oct 2021 19:15

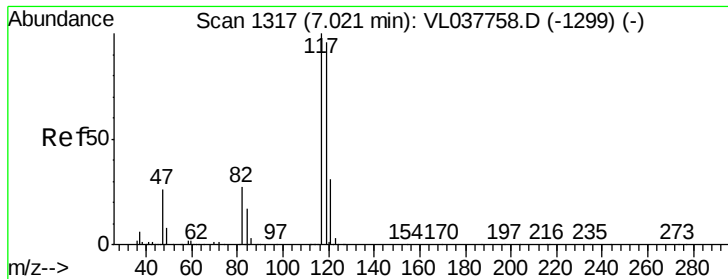
Tgt Ion: 43 Resp: 387743

Ion Ratio Lower Upper

43 100

72 24.8 18.2 27.2





#35

Carbon Tetrachloride

Concen: 0.050 ppbv m

RT: 7.01 Instrument:

Delta R.T. MSVOA_L

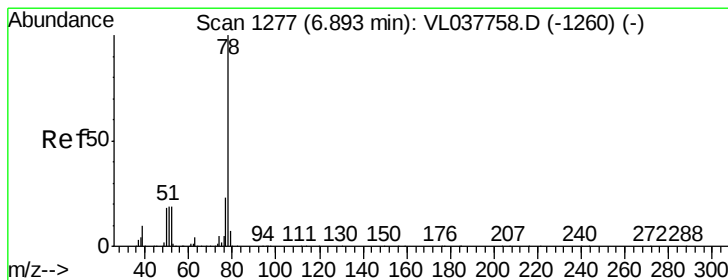
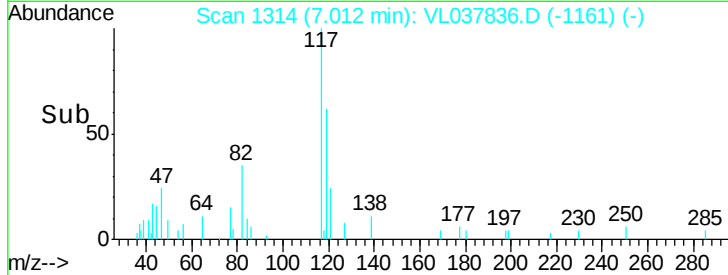
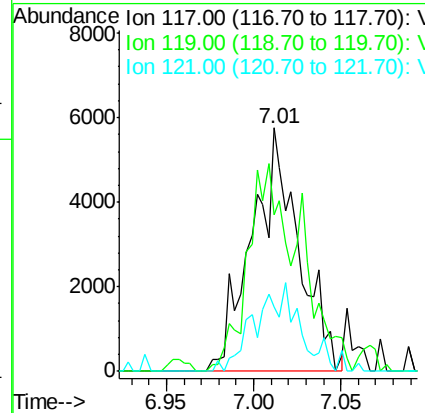
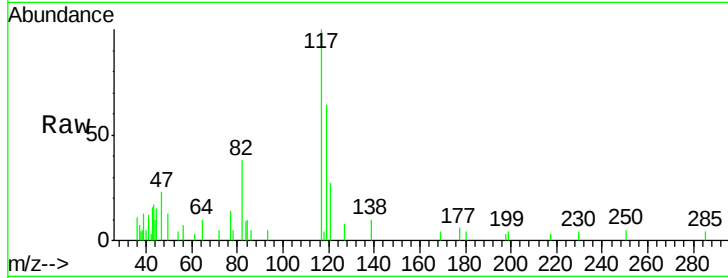
Lab File: ClientSampleId:

Acq: 12 Oct 2021 19:15 COP48

Tot Ion:1
Ion Rati
117 100
119 64.
121 26.

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



#36

Benzene

Concen: 0.112 ppbv m

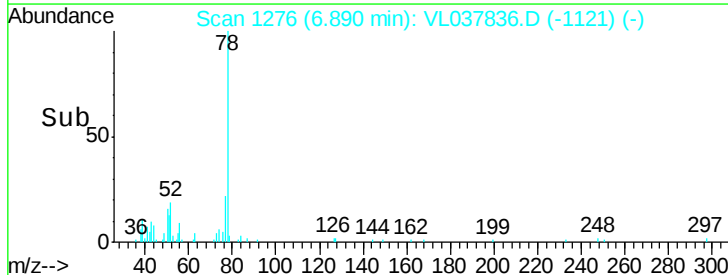
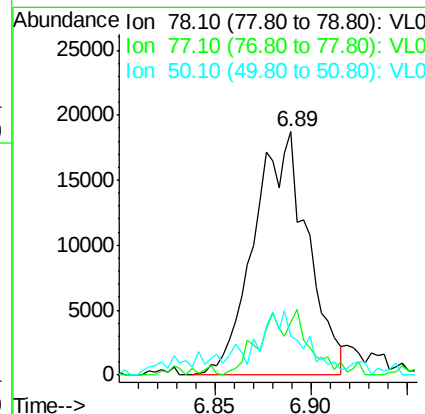
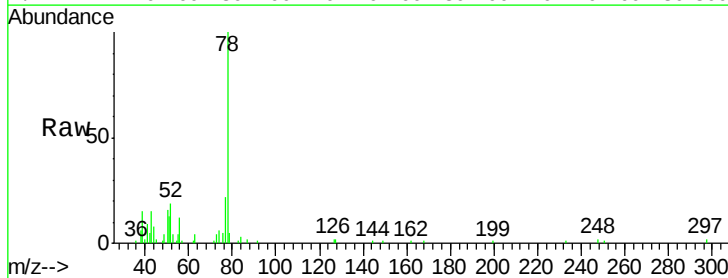
RT: 6.89 min Scan# 1276

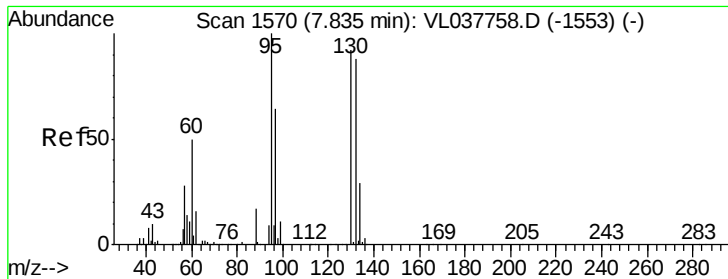
Delta R.T. -0.00 min

Lab File: VL037836.D

Acq: 12 Oct 2021 19:15

Tgt Ion: 78 Resp: 36152
Ion Ratio Lower Upper
78 100
77 21.9 18.8 28.2
50 15.7 14.7 22.1





#38

Trichloroethene

Concen: 0.032 ppbv m

RT: 7.82 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 12 Oct 2021 19:15 COP48

Tot Ion:1

Ion Ratio

130 100

95 50.

132 54.

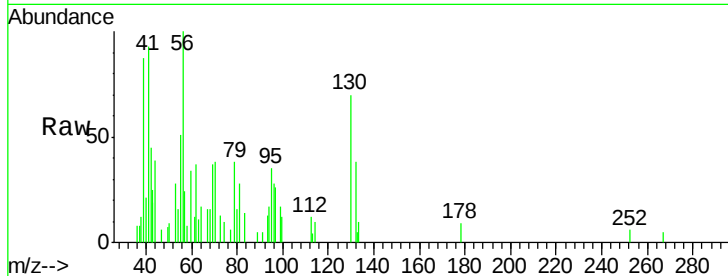
97 36.4 55.8 83.8#

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Reviewed By :Semsettin Yesilyurt 10/14/2021

Supervised By :Mahesh Dadoda 10/15/2021

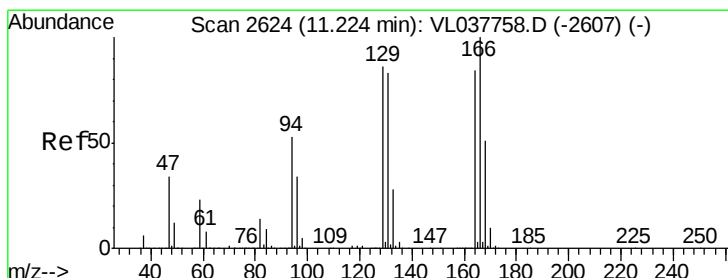
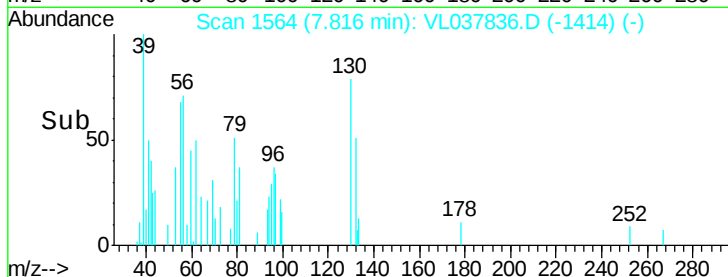
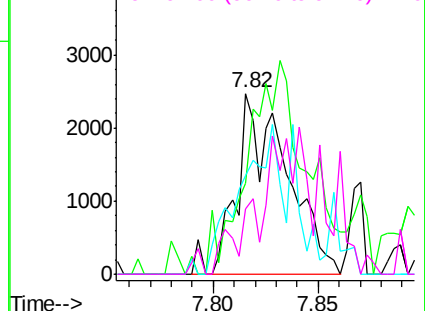


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#52

Tetrachloroethene

Concen: 57.087 ppbv

RT: 11.22 min Scan# 2623

Delta R.T. -0.00 min

Lab File: VL037836.D

Acq: 12 Oct 2021 19:15

Tgt Ion:164 Resp: 7148608

Ion Ratio Lower Upper

164 100

166 123.9 95.4 143.2

129 99.9 82.2 123.4

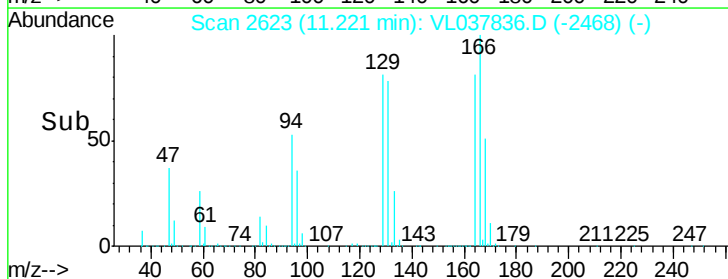
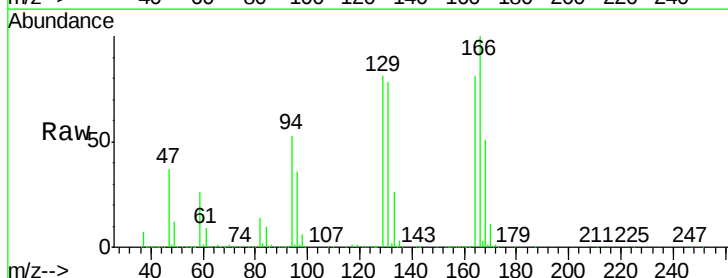
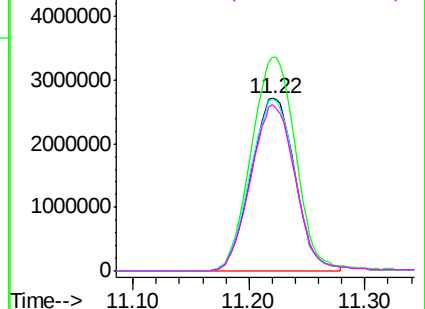
131 96.4 79.4 119.2

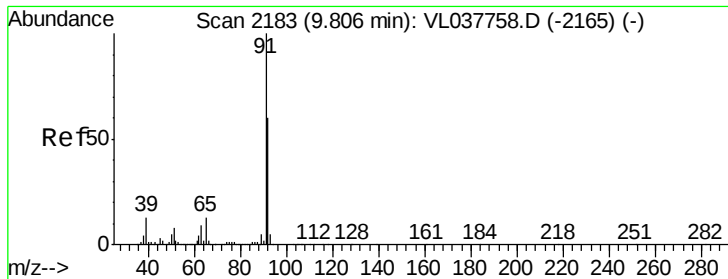
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.229 ppbv m

RT: 9.80

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 12 Oct 2021 19:15

Tot Ion:

Ion Ratio

91 100

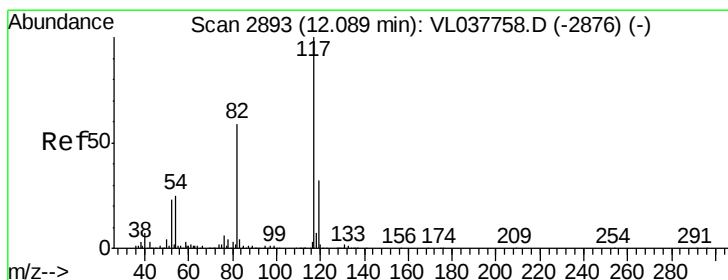
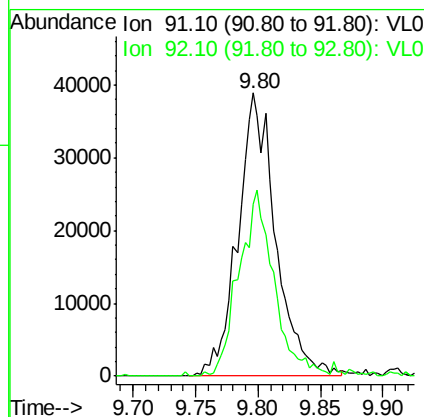
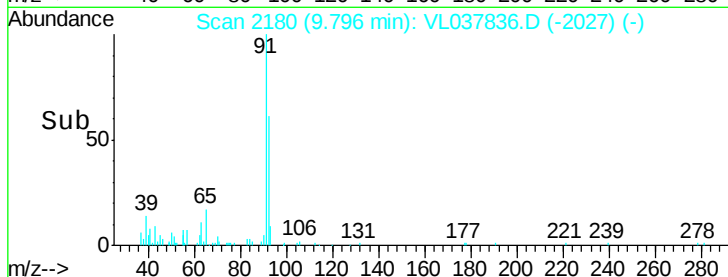
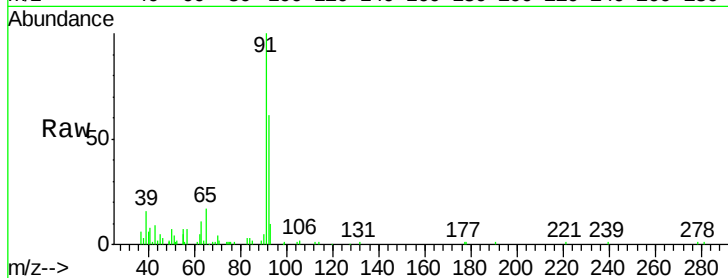
92 62.

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# 2889

Delta R.T. -0.01 min

Lab File: VL037836.D

Acq: 12 Oct 2021 19:15

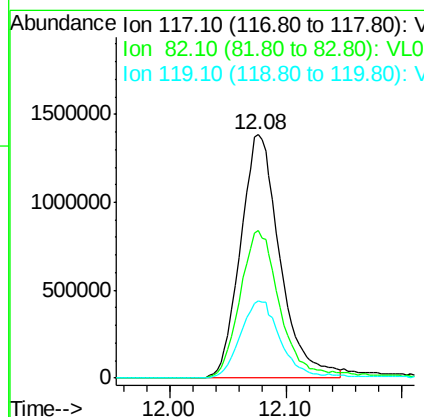
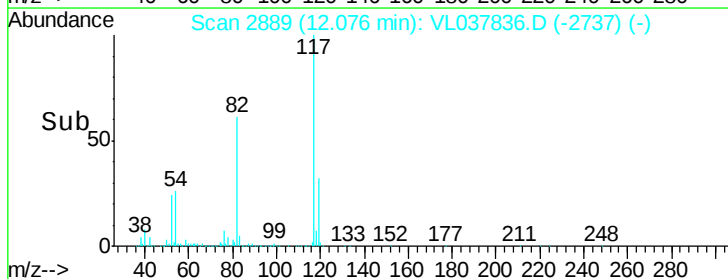
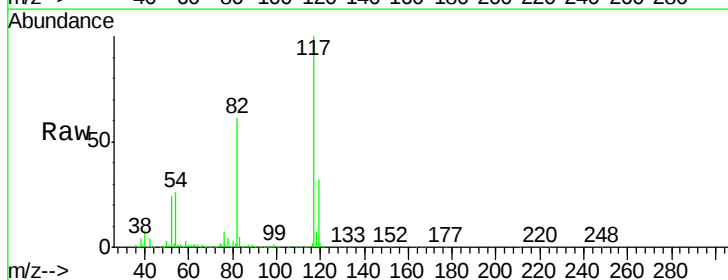
Tgt Ion:117 Resp: 3278579

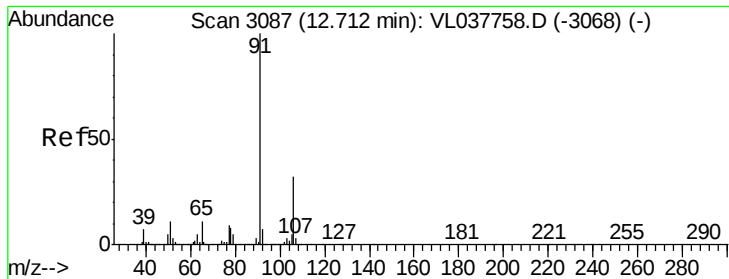
Ion Ratio Lower Upper

117 100

82 63.3 52.2 78.2

119 33.8 26.0 39.0



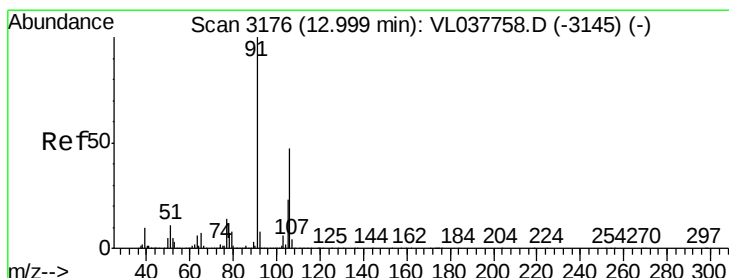
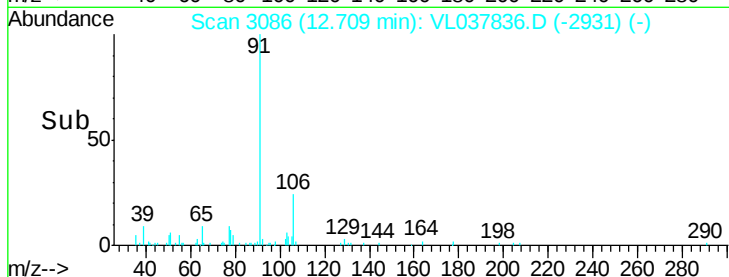
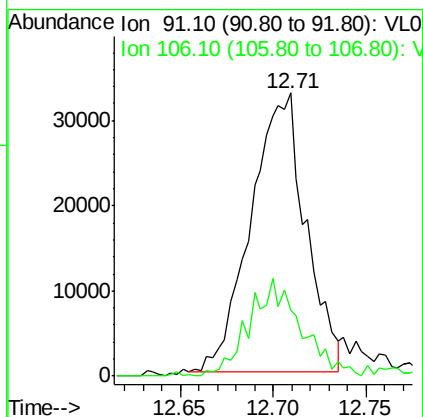
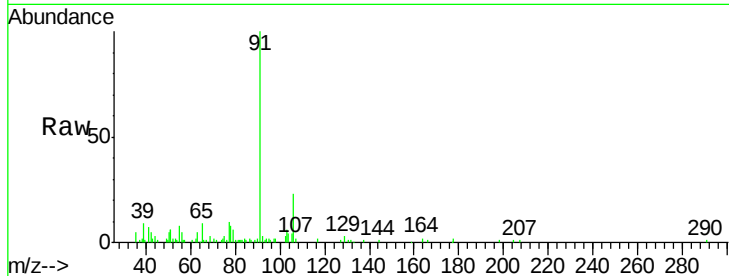


#58
Ethyl Benzene
Concen: 0.154 ppbv
RT: 12.71 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
COP48
Acq: 12 Oct 2021 19:15

Tot Ion:
Ion Ratio
91 100
106 23.

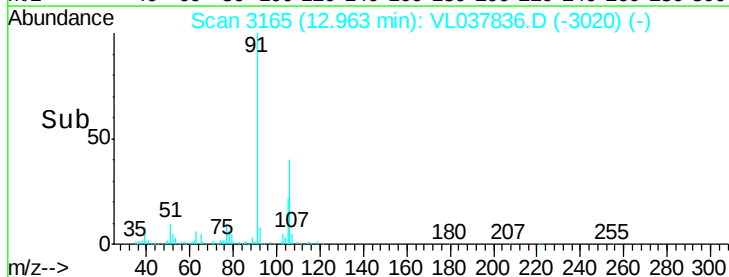
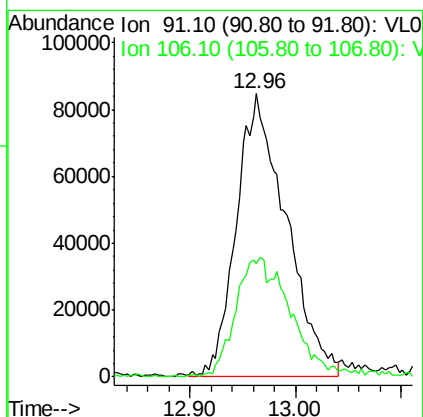
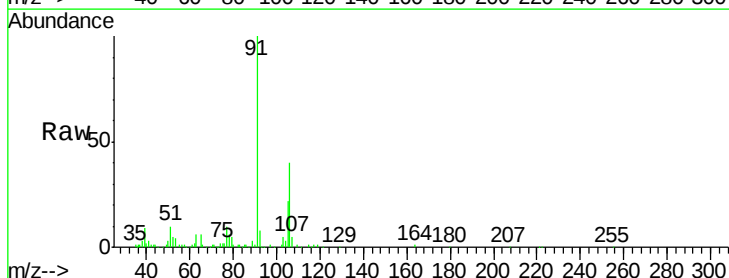
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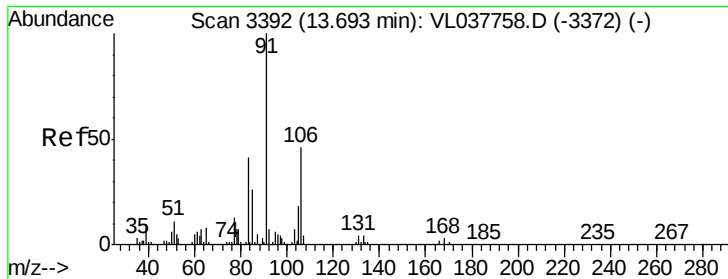
Reviewed By :Semsettin Yesilyurt 10/14/2021
Supervised By :Mahesh Dadoda 10/15/2021



#59
m/p-Xylene
Concen: 0.734 ppbv m
RT: 12.96 min Scan# 3165
Delta R.T. -0.04 min
Lab File: VL037836.D
Acq: 12 Oct 2021 19:15

Tgt Ion: 91 Resp: 277391
Ion Ratio Lower Upper
91 100
106 46.2 36.7 55.1



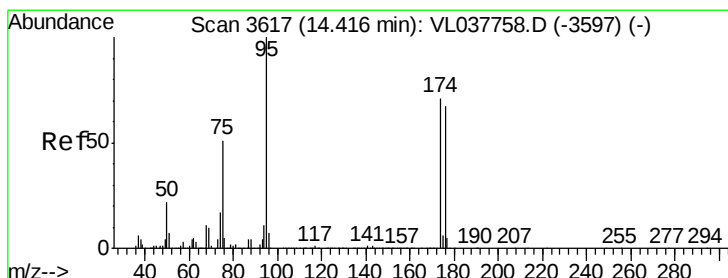
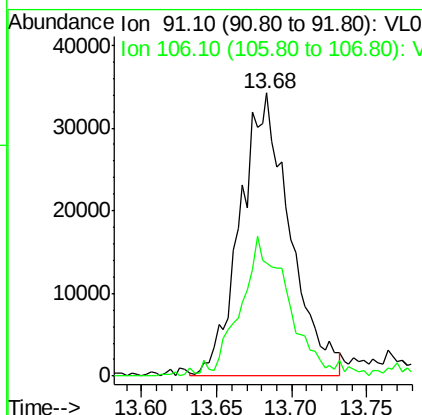
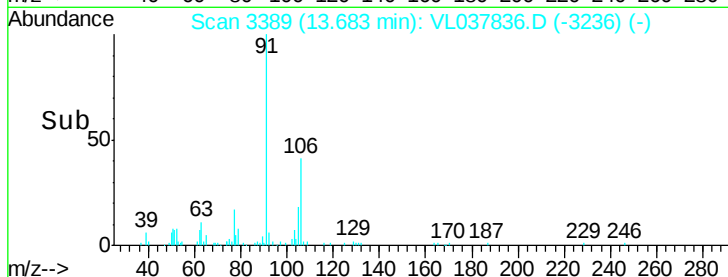
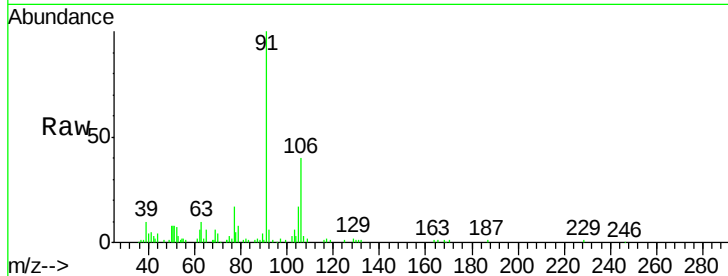


#60
o-Xylene
Concen: 0.218 ppbv m
RT: 13.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 12 Oct 2021 19:15

Tot Ion:
Ion Ratio
91 100
106 49.

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



#68
1-Bromo-4-Fluorobenzene
Concen: 9.449 ppbv
RT: 14.40 min Scan# 3613
Delta R.T. -0.01 min
Lab File: VL037836.D
Acq: 12 Oct 2021 19:15

Tgt Ion: 95 Resp: 2166449
Ion Ratio Lower Upper
95 100
174 79.3 57.8 86.6
175 5.7 4.7 7.1

