

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041422\
 Data File : VL038933.D
 Acq On : 15 Apr 2022 1:26
 Operator : SY/AP
 Sample : N2259-07
 Misc : 400mL/MSVOA L
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 1165-19-IA-2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/15/2022
 Supervised By :Mahesh Dadoda 04/18/2022

Quant Time: Apr 15 10:18:34 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL040522A

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

QLast Update : Wed Apr 06 06:12:53 2022

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1215257	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3068732	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2758408	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2188253	10.46	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.05	85	104049m	0.604	ppbv
4) Chloromethane	3.14	50	38105	0.496	ppbv 89
9) Propene	3.02	41	346298m	4.413	ppbv
10) Heptane	8.12	43	3598380	18.206	ppbv 97
11) Trichlorofluoromethane	3.95	101	566591	4.090	ppbv 98
13) Ethanol	3.61	45	740389	155.261	ppbv # 100
15) Acetone	3.85	43	28055377	231.882	ppbv # 68
19) Isopropyl Alcohol	3.97	45	464931	7.519	ppbv # 100
20) Methylene Chloride	4.35	84	196991	4.489	ppbv 97
25) Ethyl Acetate	5.67	43	477208	1.554	ppbv 99
26) Hexane	5.69	57	226332	1.620	ppbv 96
30) Cyclohexane	7.12	84	124644m	1.012	ppbv
34) 2-Butanone	5.25	43	233558	1.926	ppbv 97
35) Carbon Tetrachloride	7.02	117	11050m	0.060	ppbv
36) Benzene	6.89	78	335897	1.203	ppbv 97
44) 2,2,4-Trimethylpentane	7.87	57	273282	0.578	ppbv # 1
50) 4-Methyl-2-Pentanone	8.74	43	206012	0.755	ppbv 100
52) Tetrachloroethene	11.22	164	7487m	0.077	ppbv
53) Toluene	9.81	91	17450349	54.148	ppbv 87
58) Ethyl Benzene	12.71	91	806223	1.956	ppbv 91
59) m/p-Xylene	12.96	91	2077114	5.998	ppbv 99
60) o-Xylene	13.69	91	826703	2.551	ppbv 94
61) Styrene	13.52	104	53636m	0.272	ppbv
62) Isopropylbenzene	14.66	105	109949m	0.226	ppbv
64) n-propylbenzene	15.55	120	89069	0.705	ppbv 81
70) n-Butylbenzene	18.54	91	205663m	0.411	ppbv
72) 4-Ethyltoluene	15.83	105	445210	1.151	ppbv 100
73) 1,3,5-Trimethylbenzene	15.99	105	383587	1.104	ppbv 86
74) 1,2,4-Trimethylbenzene	16.75	105	1370590	3.730	ppbv # 69
79) Naphthalene	22.18	128	105068m	0.382	ppbv
80) Naphthalene,2-methyl-	24.96	142	35206	0.520	ppbv # 67

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

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Operator : SY/AP
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Misc : 400mL/MSVOA L
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
1165-19-IA-2

Manual Integrations
APPROVED

Quant Time: Apr 15 10:18:34 2022

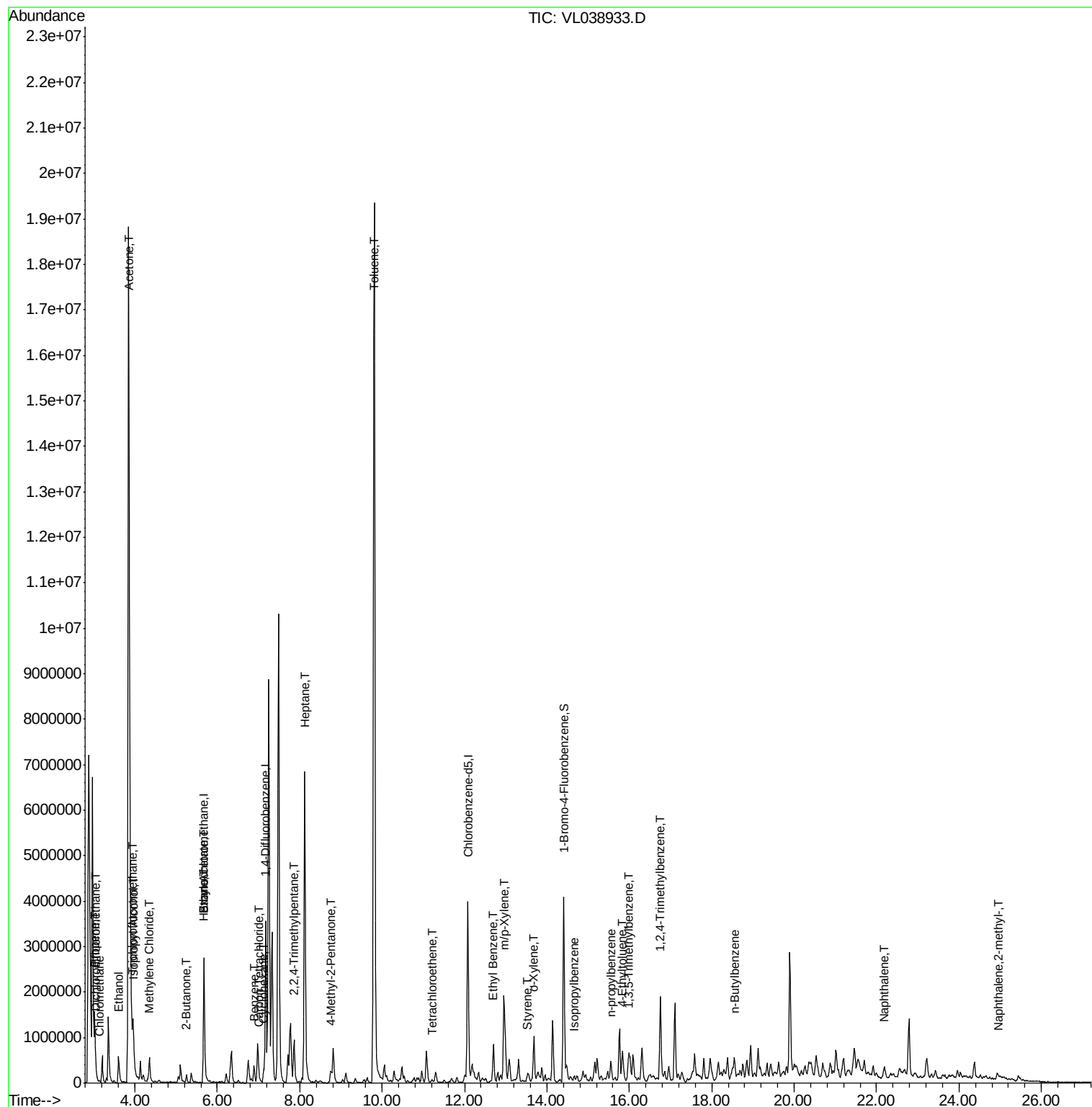
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL040522

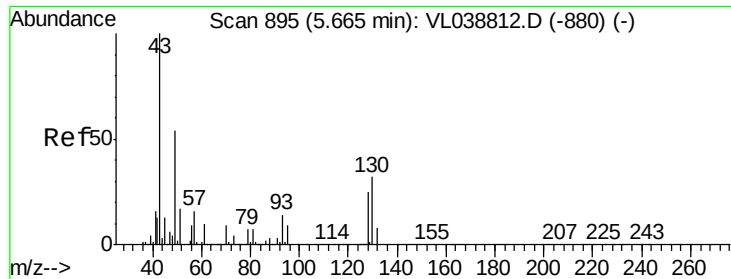
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

QLast Update : Wed Apr 06 06:12:53 2022

Response via : Initial Calibration

Reviewed By :Semsettin Yesilyurt 04/15/2022
Supervised By :Mahesh Dadoda 04/18/2022





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: 1165-19-1A-2

Acq: 15 Apr 2022 1:20

Tot Ion:

Ion Ratio

49 100

128 48.

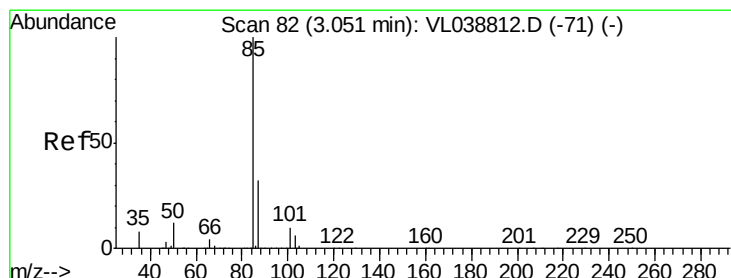
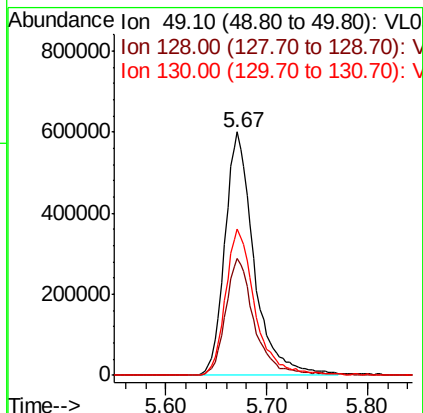
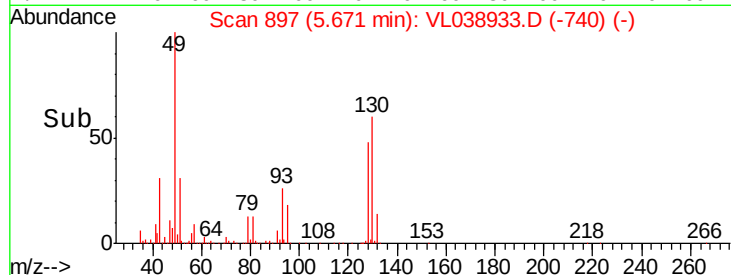
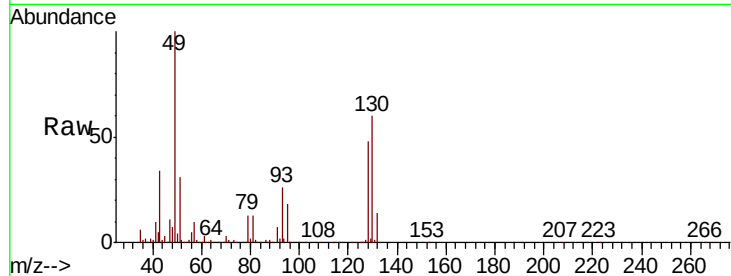
130 61.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/15/2022

Supervised By :Mahesh Dadoda 04/18/2022



#2

Dichlorodifluoromethane

Concen: 0.604 ppbv m

RT: 3.05 min Scan# 83

Delta R.T. 0.00 min

Lab File: VL038933.D

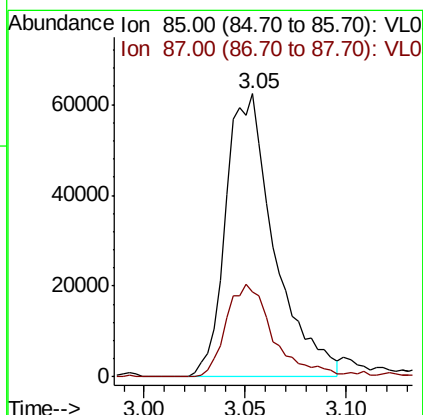
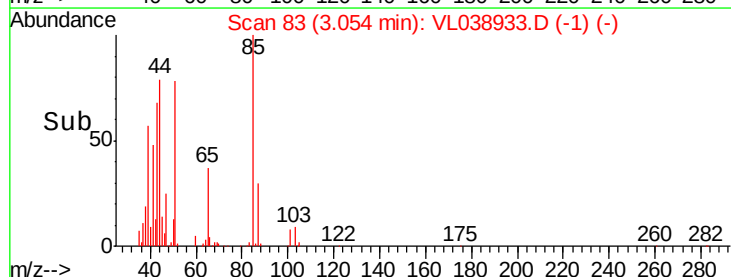
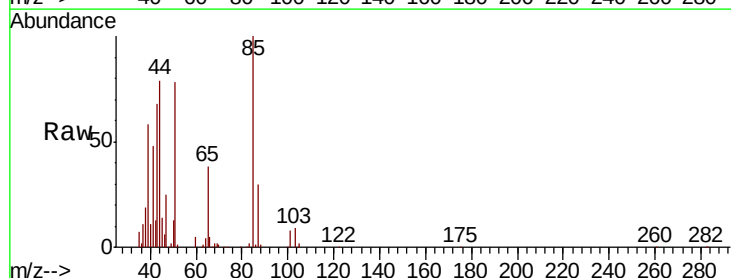
Acq: 15 Apr 2022 1:26

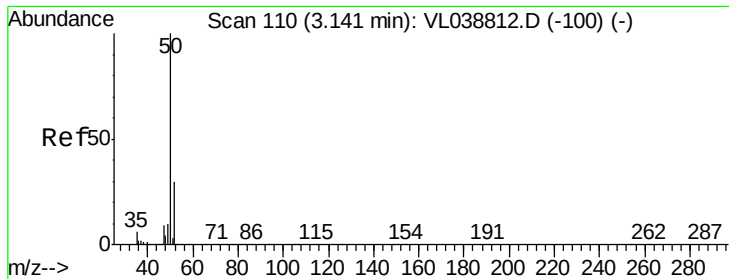
Tgt Ion: 85 Resp: 104049

Ion Ratio Lower Upper

85 100

87 29.9 25.9 38.9





#4

Chloromethane

Concen: 0.496 ppbv

RT: 3.14 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId :

Acq: 15 Apr 2022 1:26

Tot Ion:

Ion Ratio

50 100

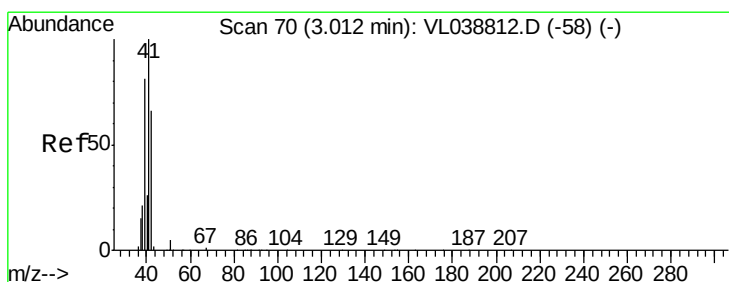
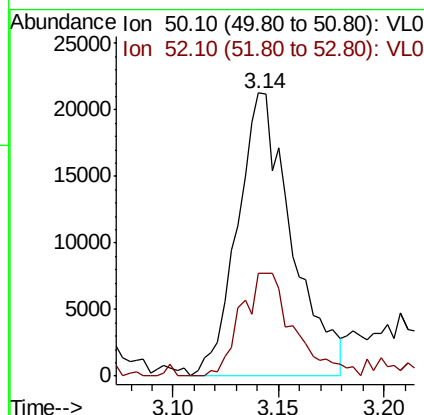
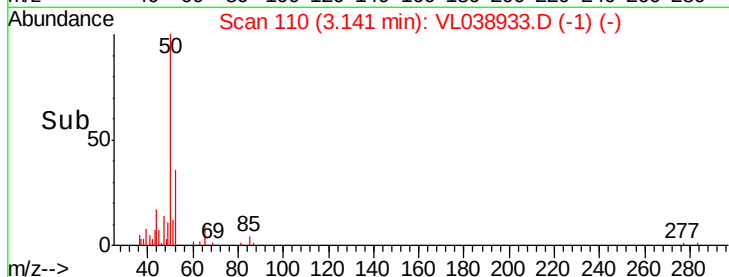
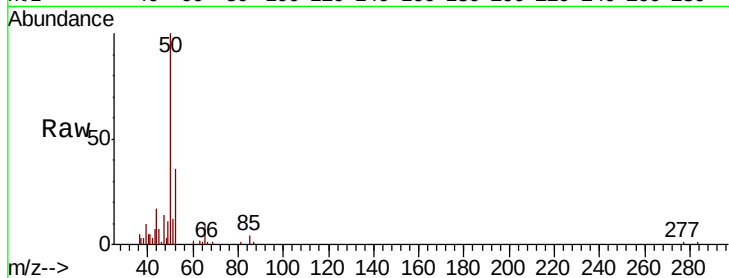
52 36.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/15/2022

Supervised By :Mahesh Dadoda 04/18/2022



#9

Propene

Concen: 4.413 ppbv m

RT: 3.02 min Scan# 73

Delta R.T. 0.01 min

Lab File: VL038933.D

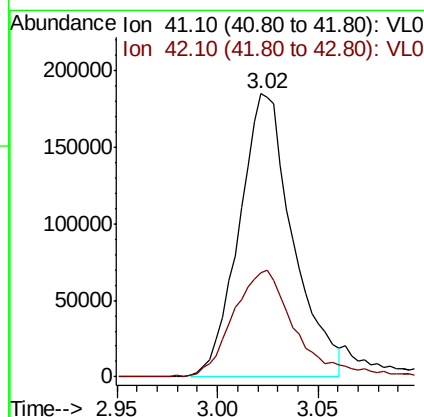
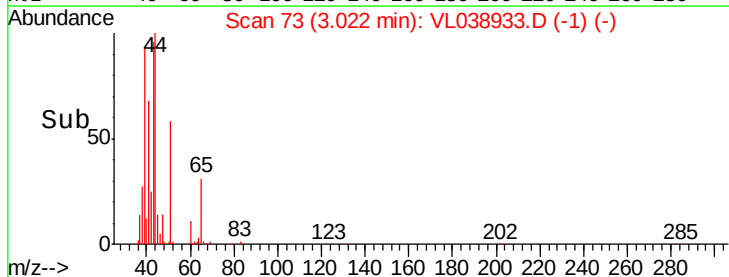
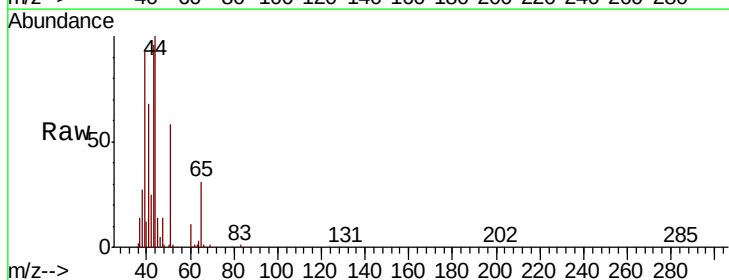
Acq: 15 Apr 2022 1:26

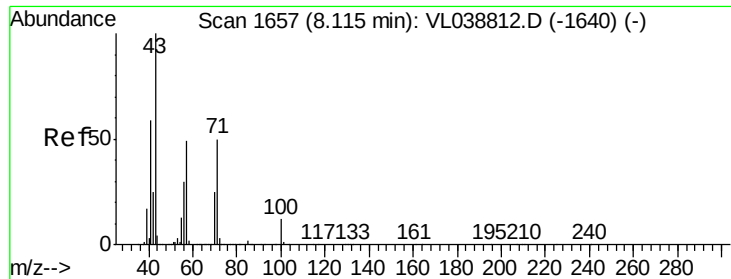
Tgt Ion: 41 Resp: 346298

Ion Ratio Lower Upper

41 100

42 38.5 54.2 81.4#



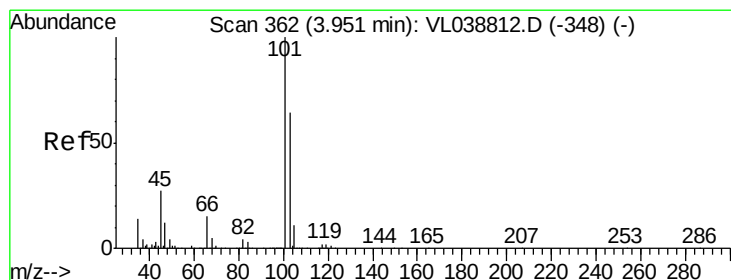
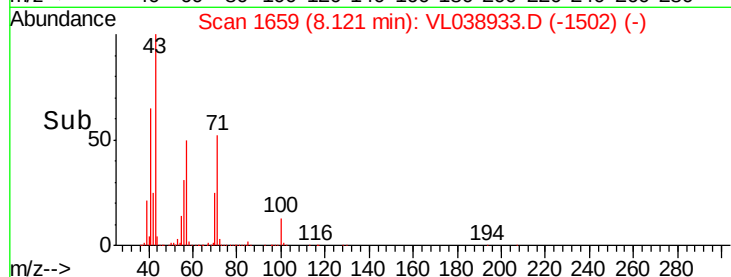
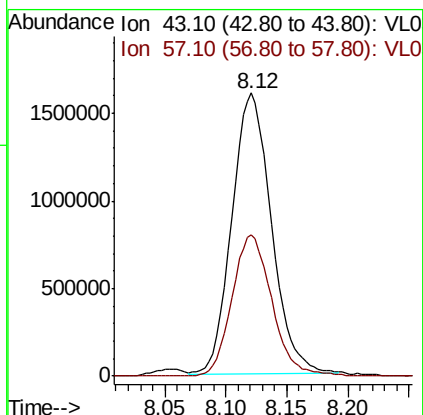
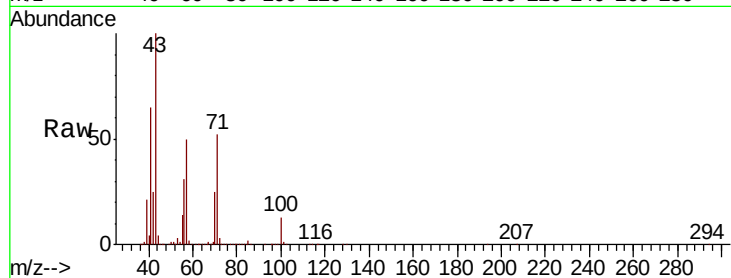


#10
 Heptane
 Concen: 18.206 ppbv
 RT: 8.12
 Instrument : MSVOA_1
 Delta R.T. :
 Lab File: ClientSampleId :
 Acq: 15 Apr 2022 1:20

Tot Ion:
 Ion Ratio
 43 100
 57 51.

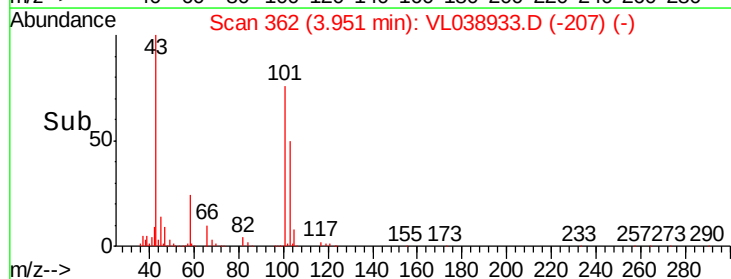
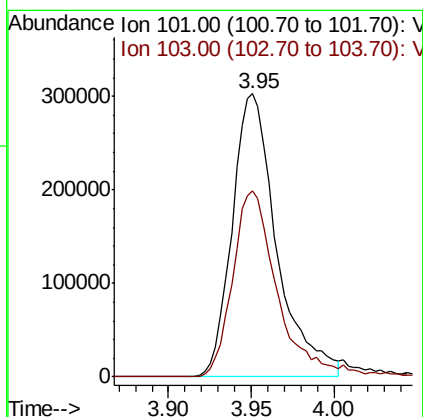
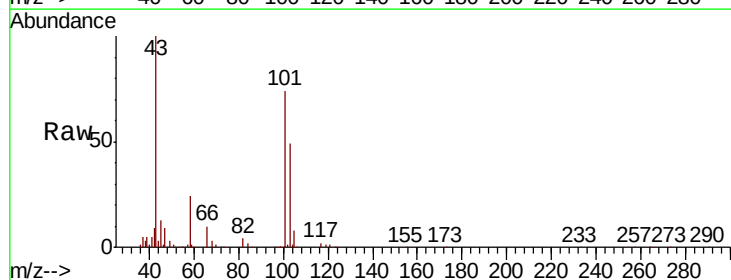
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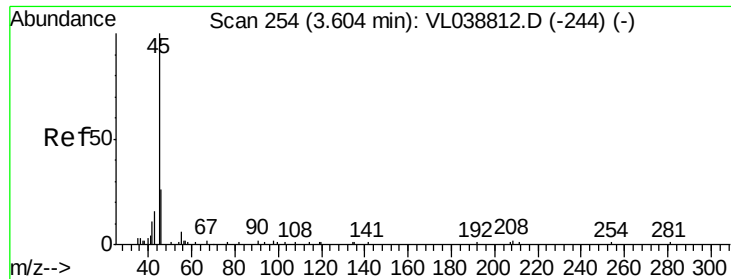
Reviewed By :Semsettin Yesilyurt 04/15/2022
 Supervised By :Mahesh Dadoda 04/18/2022



#11
 Trichlorofluoromethane
 Concen: 4.090 ppbv
 RT: 3.95 min Scan# 362
 Delta R.T. -0.00 min
 Lab File: VL038933.D
 Acq: 15 Apr 2022 1:26

Tgt Ion:101 Resp: 566591
 Ion Ratio Lower Upper
 101 100
 103 65.6 51.4 77.0



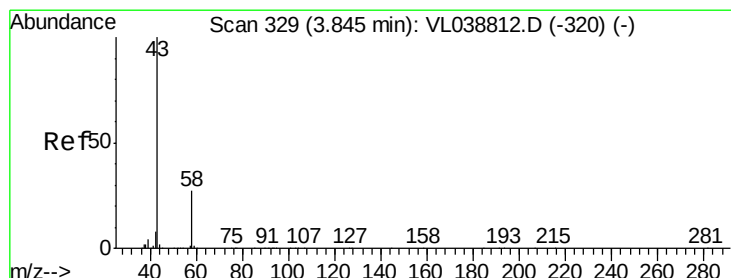
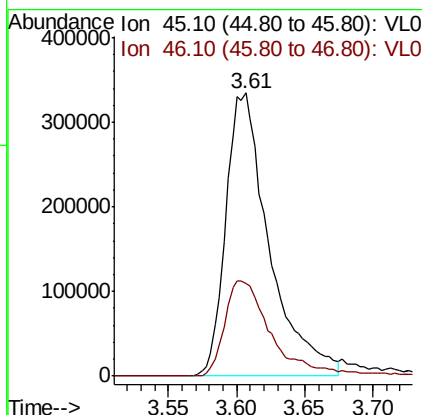
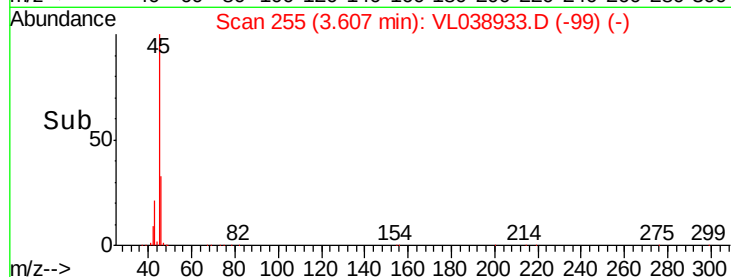
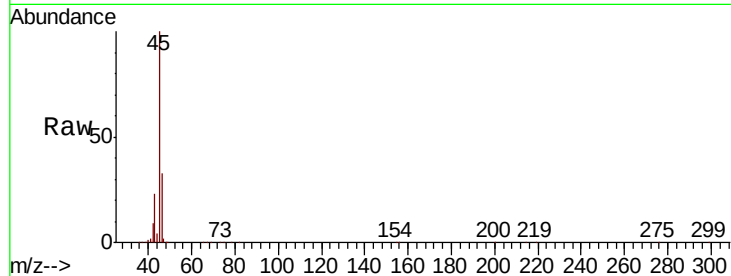


#13
Ethanol
Concen: 155.261 ppbv
RT: 3.61
Instrument : MSVOA_1
Delta R.T. :
Lab File: ClientSampleId :
Acq: 15 Apr 2022 1:20

Tot Ion:
Ion Ratio
45 100
46 36.

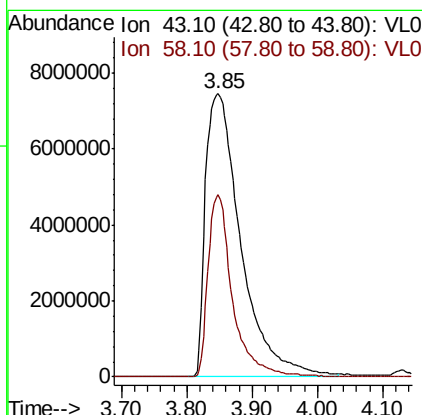
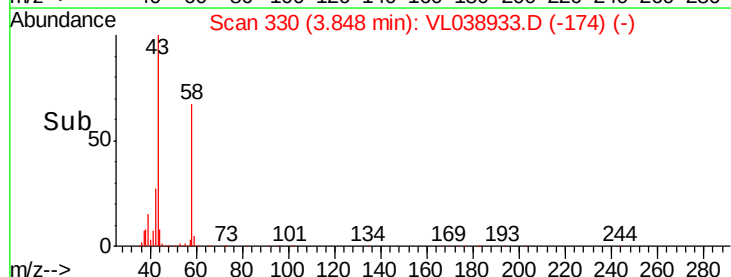
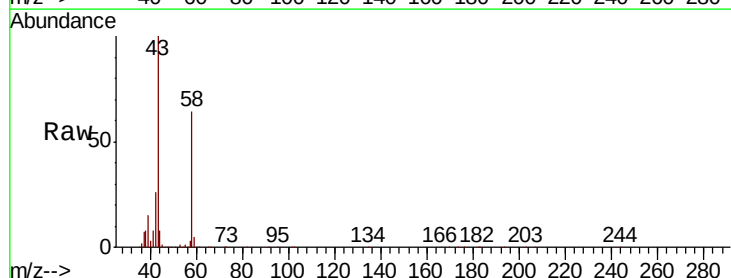
Manual Integrations
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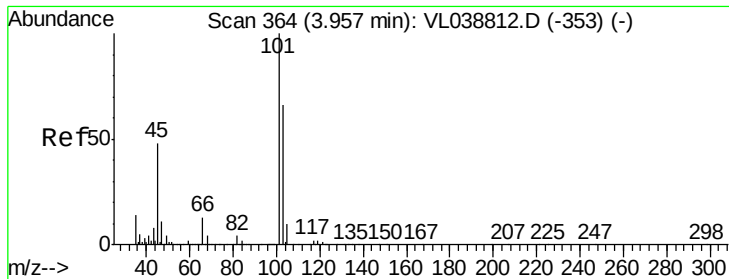
Reviewed By :Semsettin Yesilyurt 04/15/2022
Supervised By :Mahesh Dadoda 04/18/2022



#15
Acetone
Concen: 231.882 ppbv
RT: 3.85 min Scan# 330
Delta R.T. 0.00 min
Lab File: VL038933.D
Acq: 15 Apr 2022 1:26

Tgt Ion: 43 Resp:28055377
Ion Ratio Lower Upper
43 100
58 45.0 22.5 33.7#





#19

Isopropyl Alcohol

Concen: 7.519 ppbv

RT: 3.97 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 15 Apr 2022 1:20

Tot Ion:

Ion Ratio

45 100

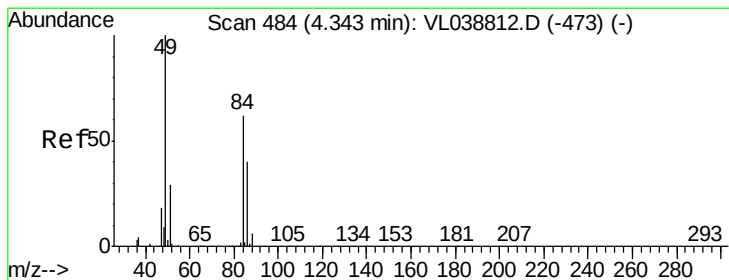
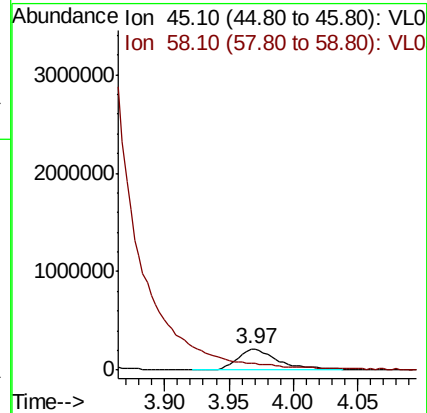
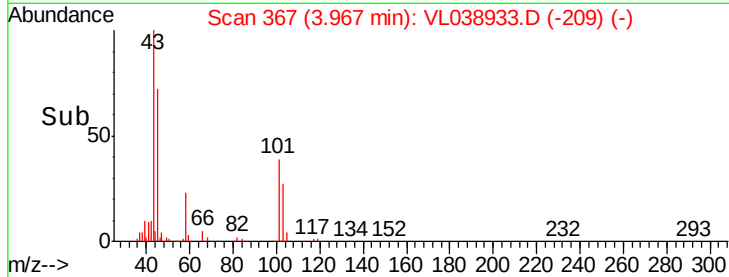
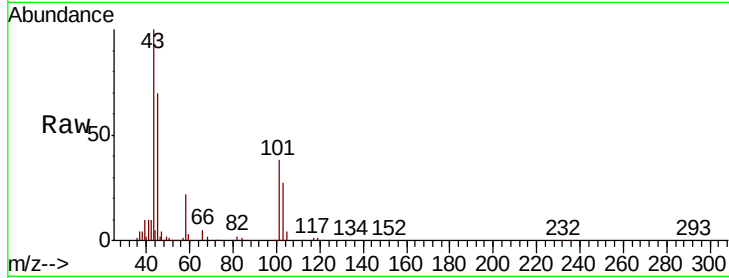
58 0.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/15/2022

Supervised By :Mahesh Dadoda 04/18/2022



#20

Methylene Chloride

Concen: 4.489 ppbv

RT: 4.35 min Scan# 487

Delta R.T. 0.01 min

Lab File: VL038933.D

Acq: 15 Apr 2022 1:26

Tgt Ion: 84 Resp: 196991

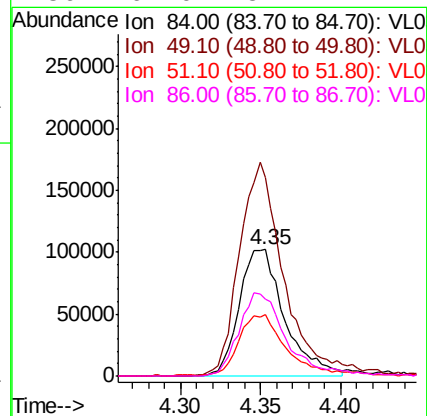
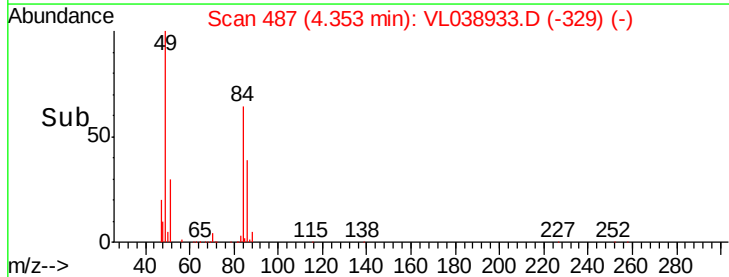
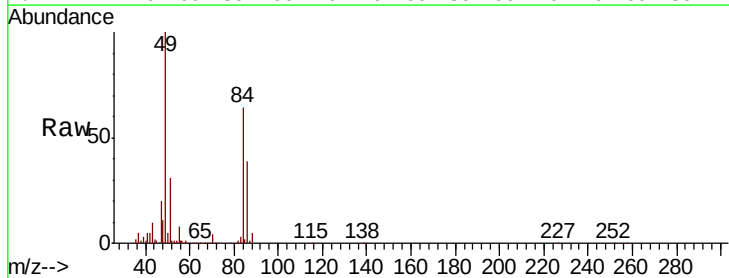
Ion Ratio Lower Upper

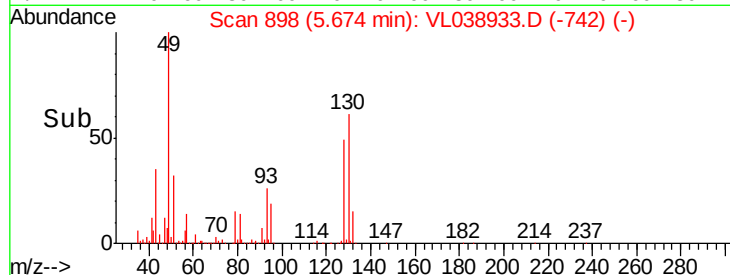
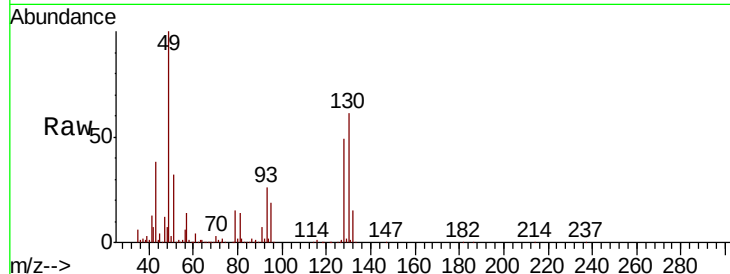
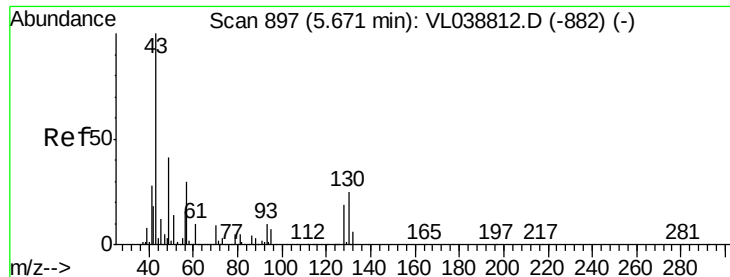
84 100

49 157.2 129.4 194.0

51 47.6 37.4 56.2

86 61.0 51.4 77.2



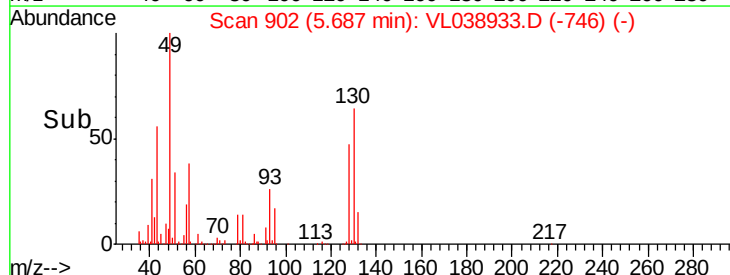
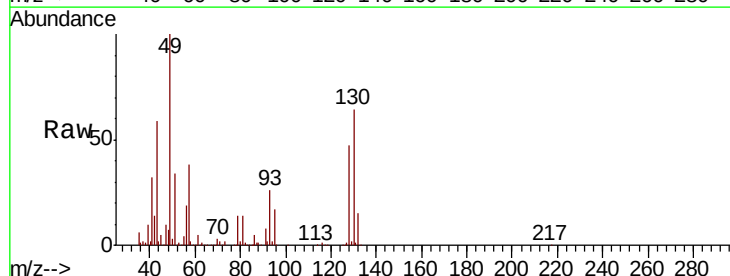
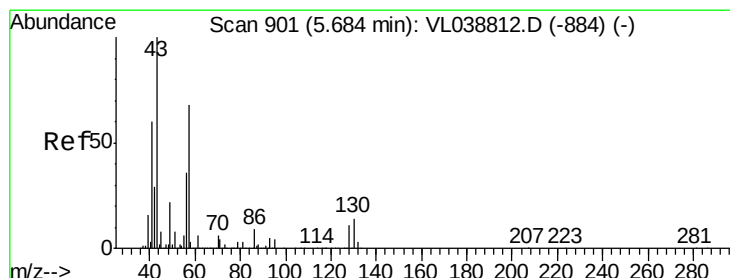
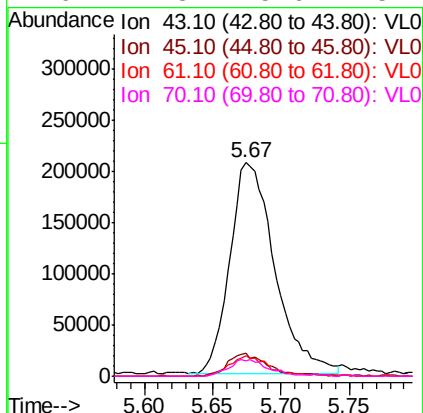


#25
Ethyl Acetate
Concen: 1.554 ppbv
RT: 5.67 min
Instrument: MSVOA_1
Delta R.T.: 0.00 min
Lab File: VL038933.D
Acq: 15 Apr 2022 1:20

Tot Ion: 43 100
Ion Ratio: 45 10.0
61 8.0
70 7.3 5.6 8.4

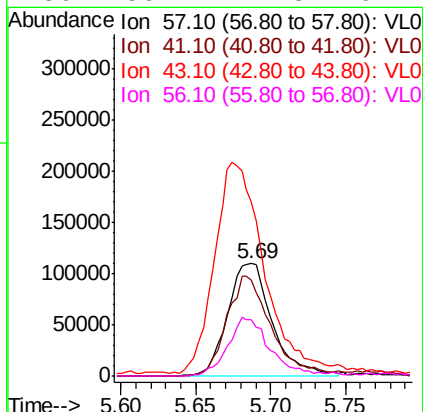
Manual Integrations
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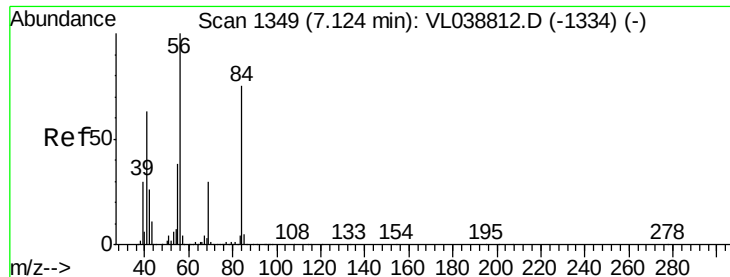
Reviewed By :Semsettin Yesilyurt 04/15/2022
Supervised By :Mahesh Dadoda 04/18/2022



#26
Hexane
Concen: 1.620 ppbv
RT: 5.69 min Scan# 902
Delta R.T.: 0.00 min
Lab File: VL038933.D
Acq: 15 Apr 2022 1:26

Tgt Ion: 57 Resp: 226332
Ion Ratio Lower Upper
57 100
41 89.5 72.0 108.0
43 223.8 186.6 280.0
56 50.1 42.8 64.2



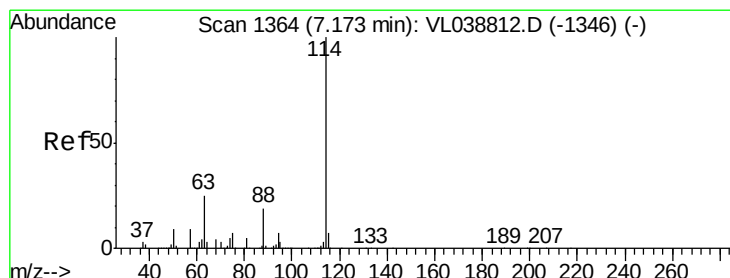
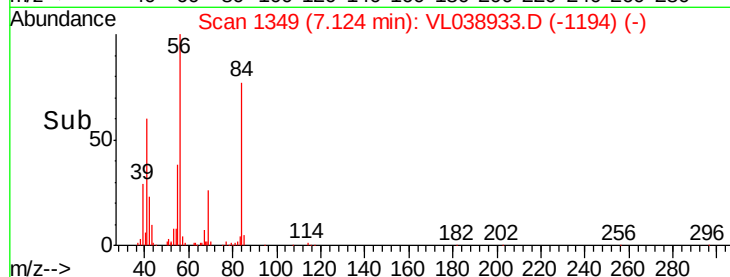
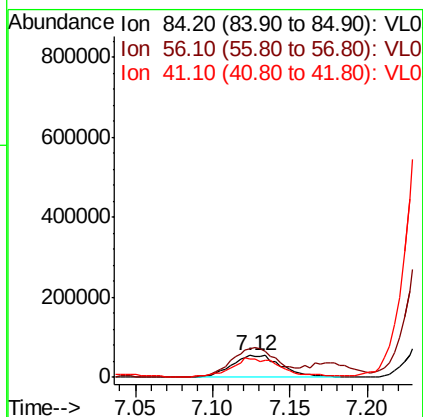
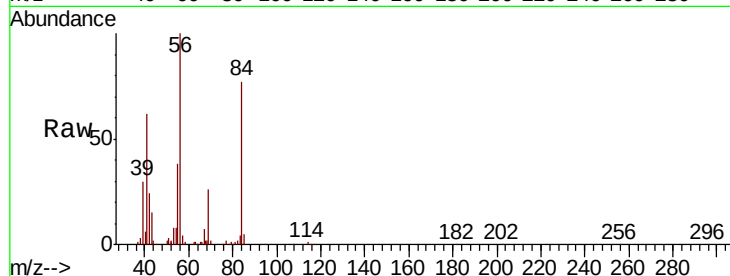


#30
Cyclohexane
Concen: 1.012 ppbv m
RT: 7.12 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 15 Apr 2022 1:20

Tot Ion:
Ion Ratio
84 100
56 131.
41 78.

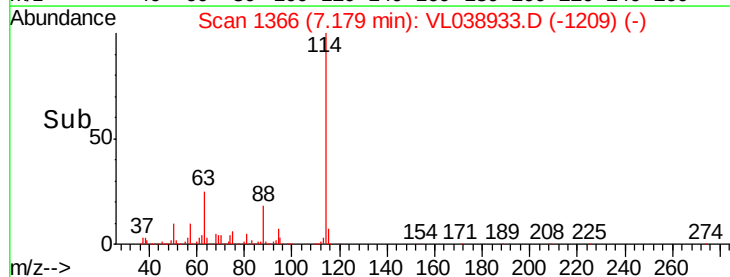
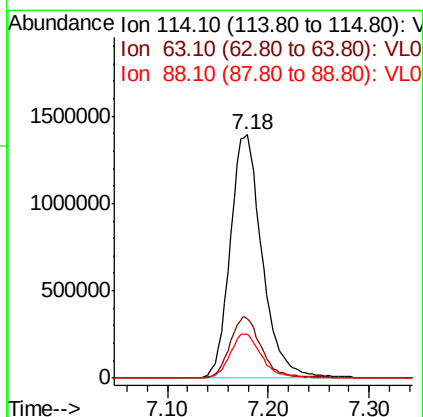
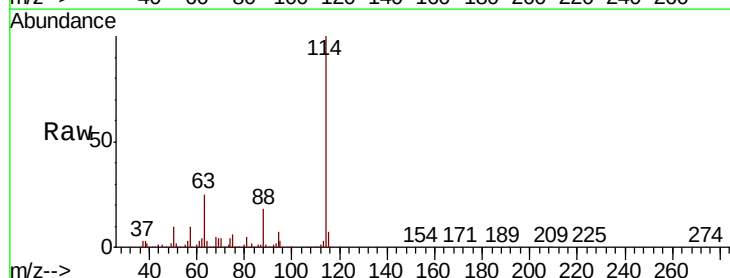
Manual Integrations
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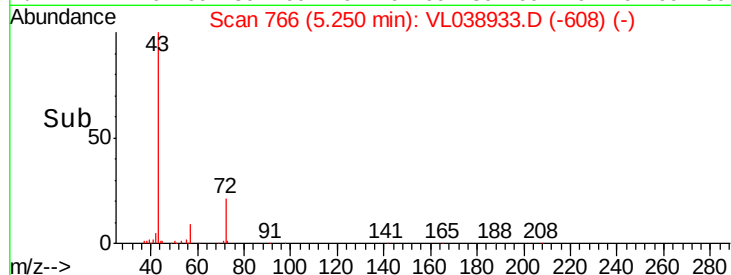
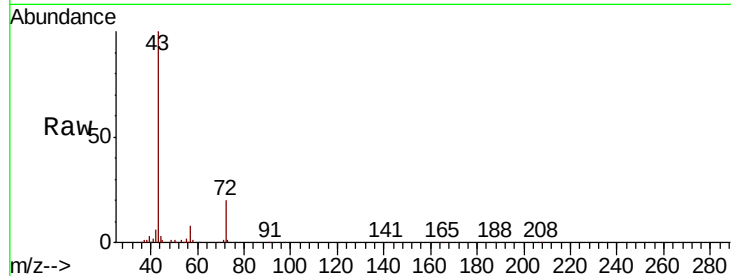
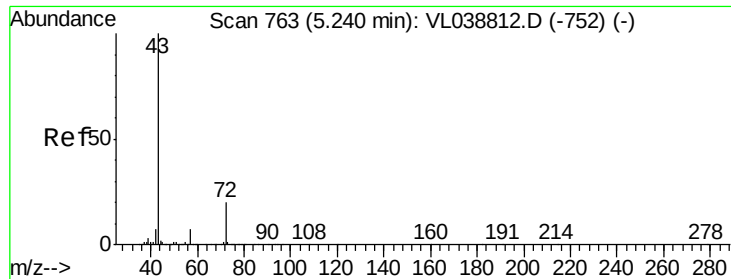
Reviewed By :Semsettin Yesilyurt 04/15/2022
Supervised By :Mahesh Dadoda 04/18/2022



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1366
Delta R.T.: 0.01 min
Lab File: VL038933.D
Acq: 15 Apr 2022 1:26

Tgt Ion:114 Resp: 3068732
Ion Ratio Lower Upper
114 100
63 25.2 19.8 29.8
88 18.2 14.2 21.4



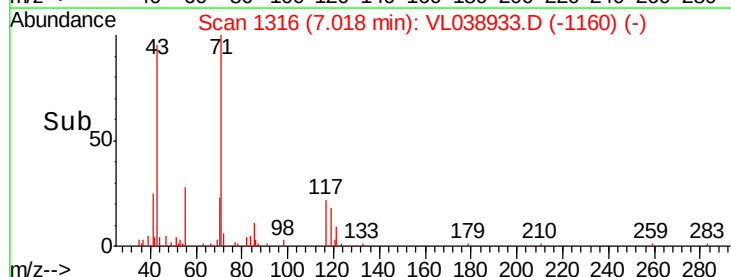
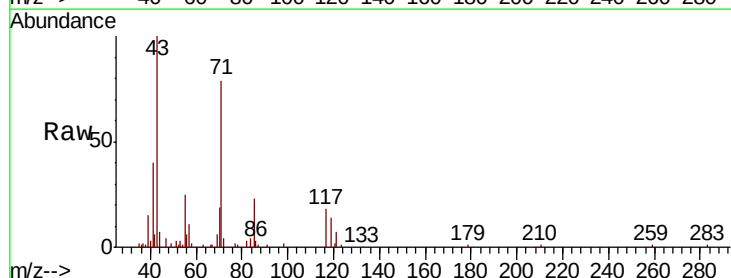
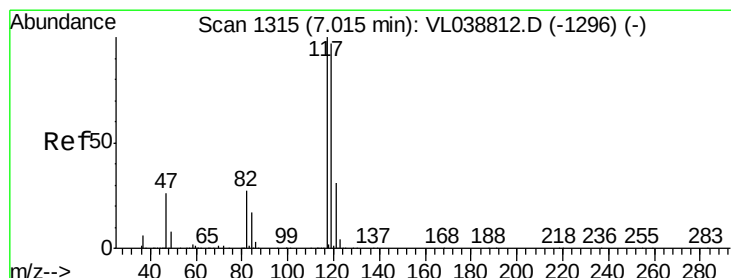
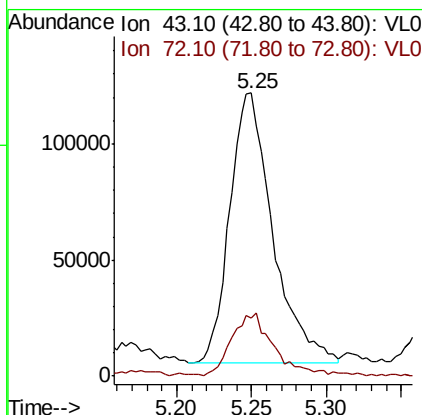


#34
2-Butanone
Concen: 1.926 ppbv
RT: 5.25
Delta R.T. MSVOA_1
Lab File: ClientSampleId :
Acq: 15 Apr 2022 1:20

Tot Ion:
Ion Ratio
43 100
72 22.

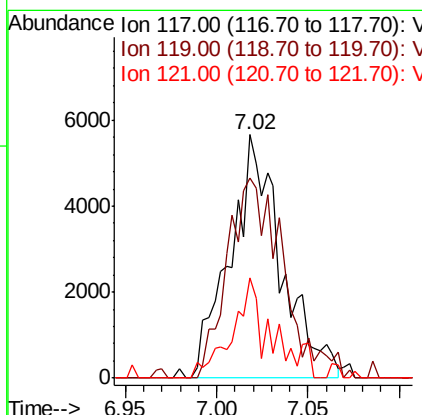
Manual Integrations
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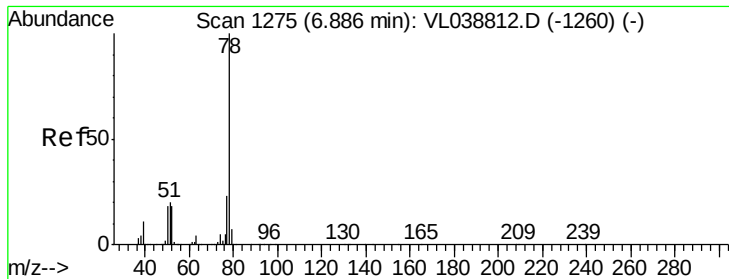
Reviewed By :Semsettin Yesilyurt 04/15/2022
Supervised By :Mahesh Dadoda 04/18/2022



#35
Carbon Tetrachloride
Concen: 0.060 ppbv m
RT: 7.02 min Scan# 1316
Delta R.T. 0.00 min
Lab File: VL038933.D
Acq: 15 Apr 2022 1:26

Tgt Ion:117 Resp: 11050
Ion Ratio Lower Upper
117 100
119 82.0 77.7 116.5
121 41.1 24.5 36.7#





#36

Benzene

Concen: 1.203 ppbv

RT: 6.89 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 15 Apr 2022 1:20

Tot Ion:

Ion Ratio

78 100

77 20.

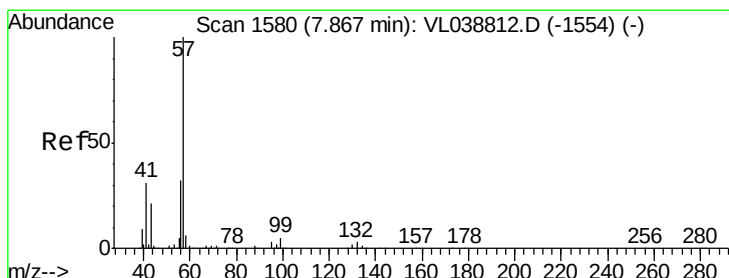
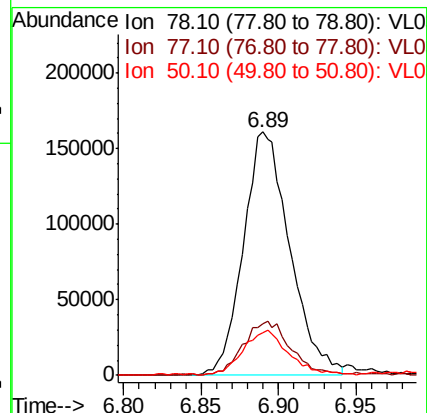
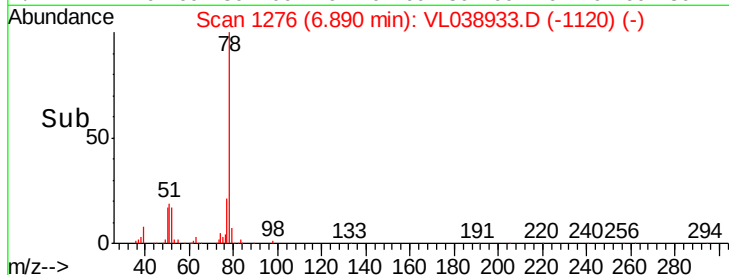
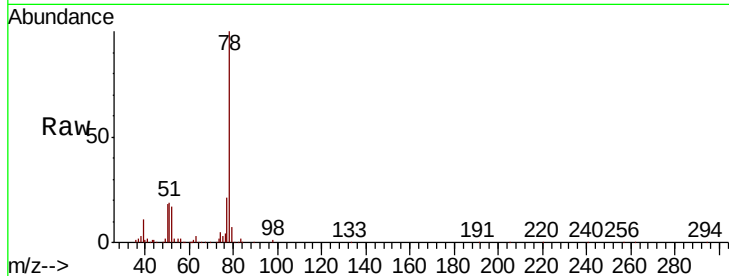
50 17.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/15/2022

Supervised By :Mahesh Dadoda 04/18/2022



#44

2,2,4-Trimethylpentane

Concen: 0.578 ppbv

RT: 7.87 min Scan# 1580

Delta R.T. -0.00 min

Lab File: VL038933.D

Acq: 15 Apr 2022 1:26

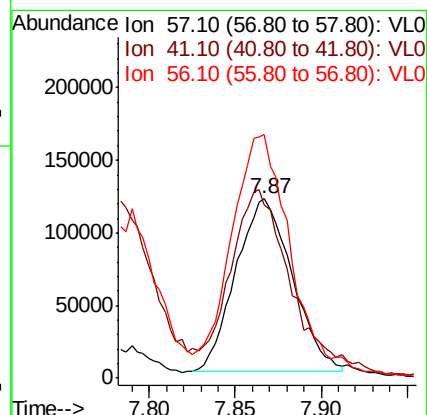
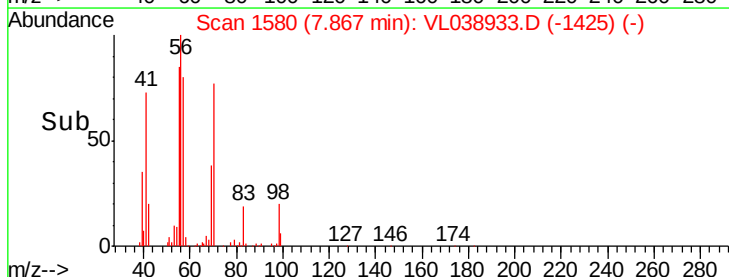
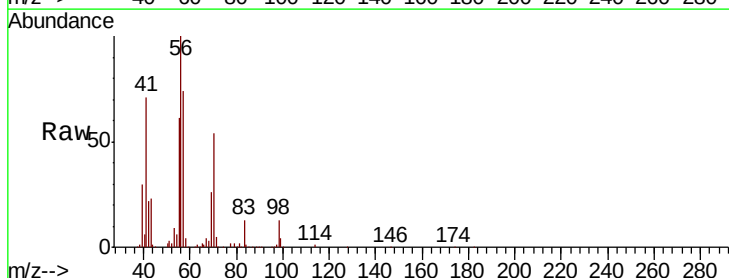
Tgt Ion: 57 Resp: 273282

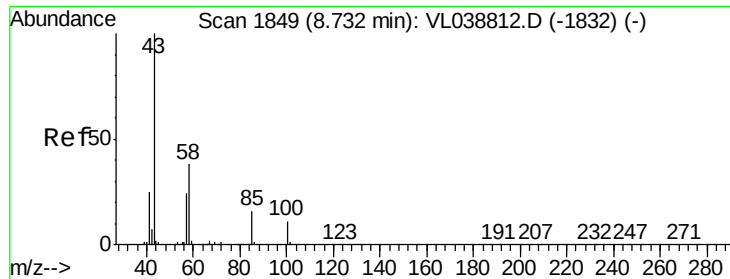
Ion Ratio Lower Upper

57 100

41 113.2 25.0 37.4#

56 147.7 25.3 37.9#





#50

4-Methyl-2-Pentanone

Concen: 0.755 ppbv

RT: 8.74 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 15 Apr 2022 1:26

Tot Ion:

Ion Ratio

43 100

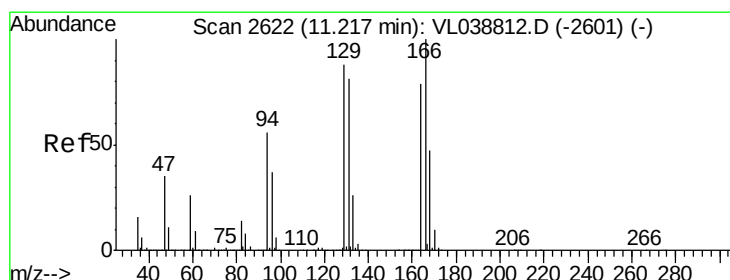
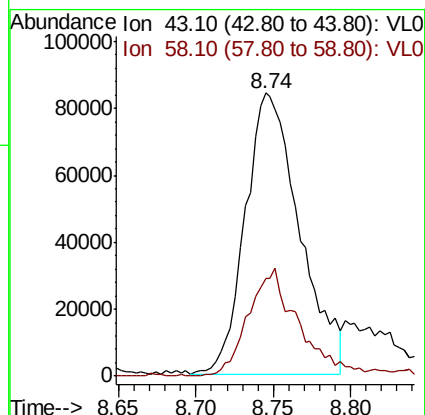
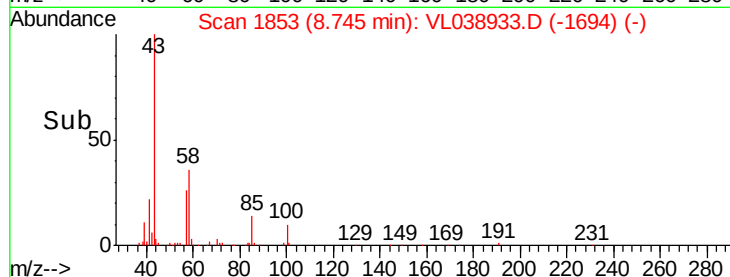
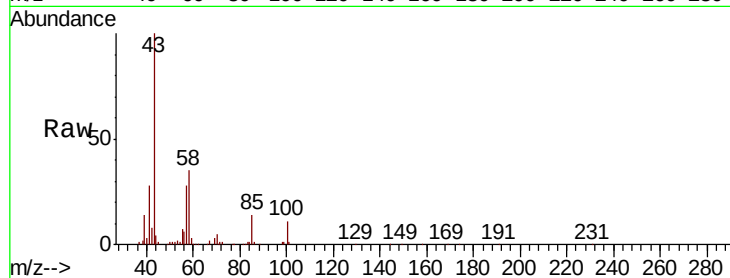
58 36.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/15/2022

Supervised By :Mahesh Dadoda 04/18/2022



#52

Tetrachloroethene

Concen: 0.077 ppbv m

RT: 11.22 min Scan# 2622

Delta R.T. -0.00 min

Lab File: VL038933.D

Acq: 15 Apr 2022 1:26

Tgt Ion:164 Resp: 7487

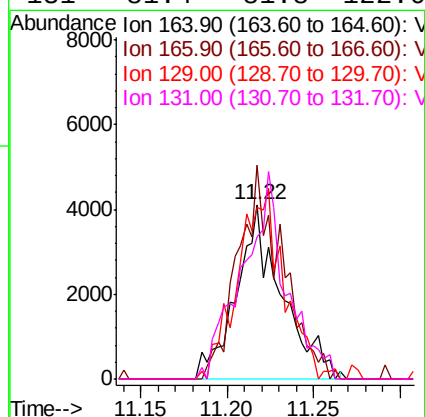
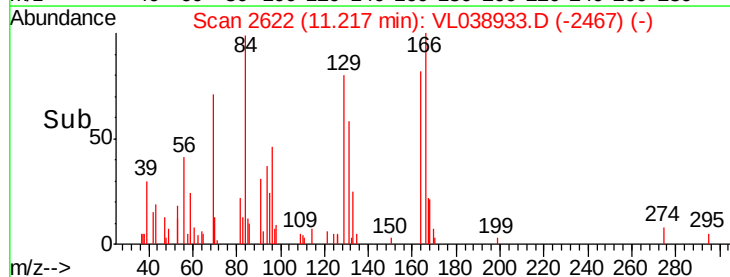
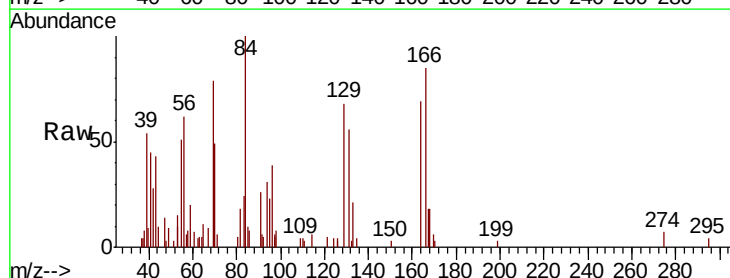
Ion Ratio Lower Upper

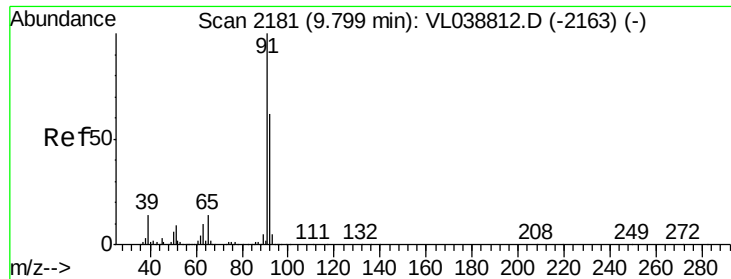
164 100

166 122.3 101.0 151.6

129 98.0 88.7 133.1

131 81.4 81.8 122.6#





#53

Toluene

Concen: 54.148 ppbv

RT: 9.81 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: 1165-19-IA-2

Acq: 15 Apr 2022 1:20

Tot Ion:

Ion Ratio

91 100

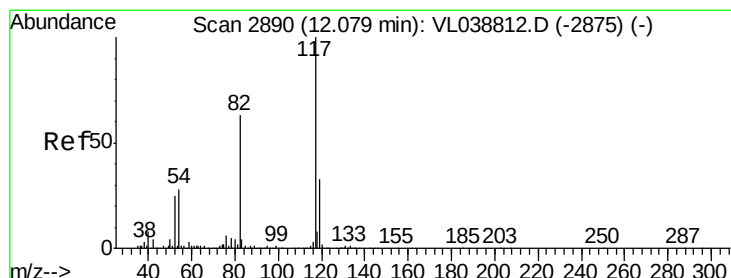
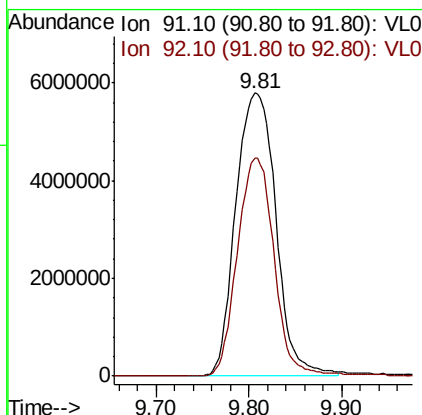
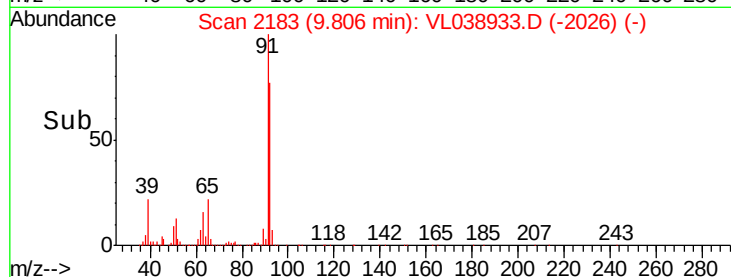
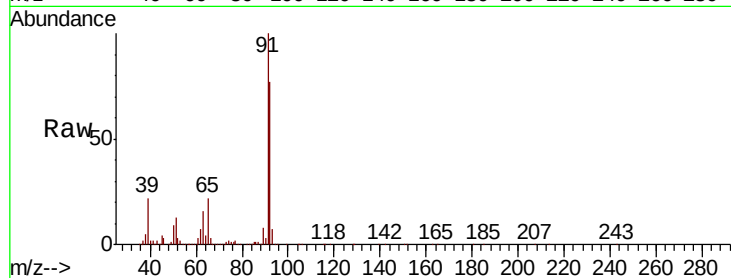
92 71.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/15/2022

Supervised By :Mahesh Dadoda 04/18/2022



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2890

Delta R.T. -0.00 min

Lab File: VL038933.D

Acq: 15 Apr 2022 1:26

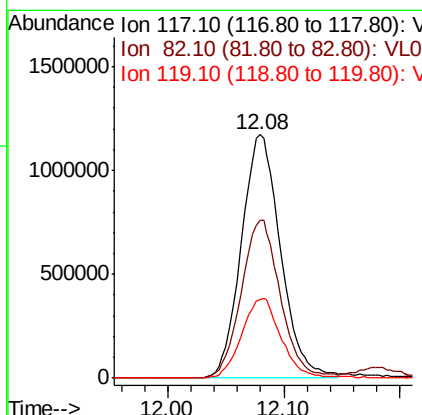
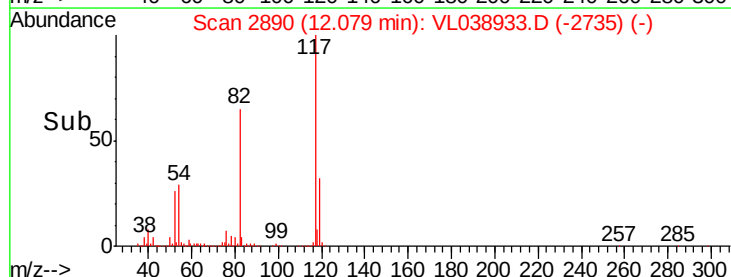
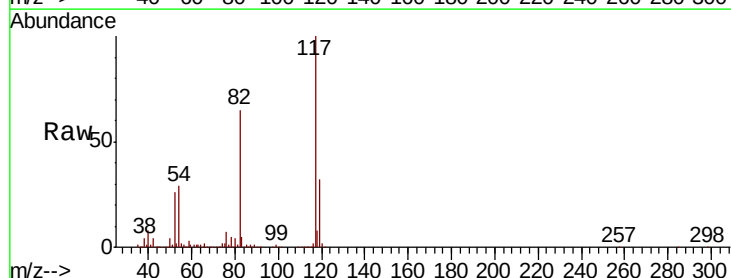
Tgt Ion:117 Resp: 2758408

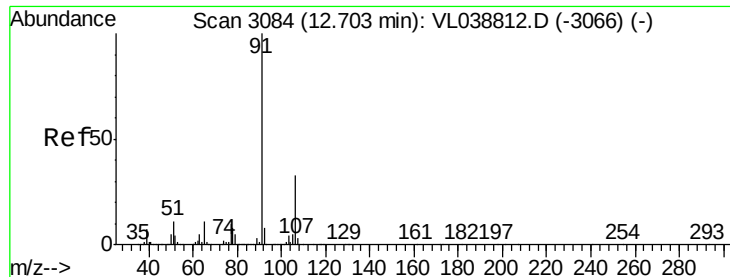
Ion Ratio Lower Upper

117 100

82 64.4 53.0 79.6

119 33.3 24.9 37.3





#58

Ethyl Benzene

Concen: 1.956 ppbv

RT: 12.71

Delta R.T. MSVOA_1

Lab File: ClientSampleId :

Acq: 15 Apr 2022 1:20

Tot Ion:

Ion Ratio

91 100

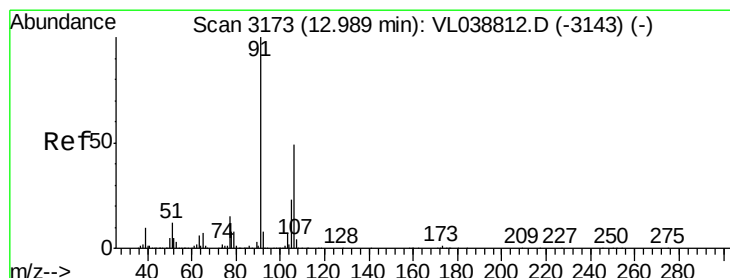
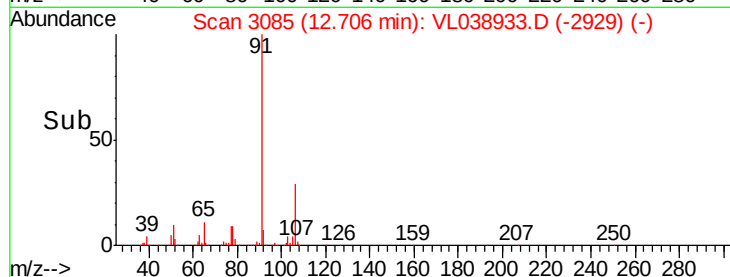
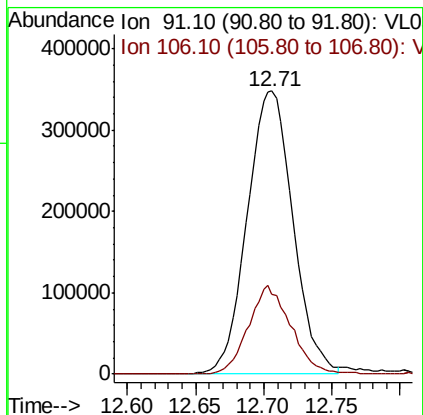
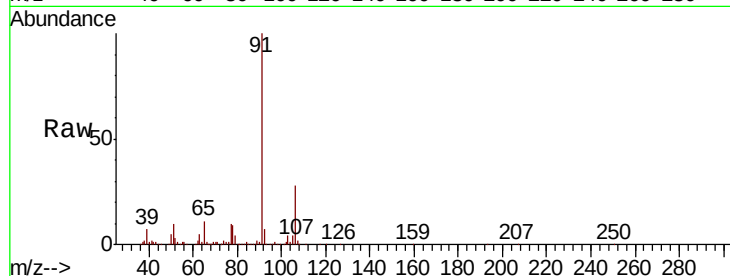
106 28.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/15/2022

Supervised By :Mahesh Dadoda 04/18/2022



#59

m/p-Xylene

Concen: 5.998 ppbv

RT: 12.96 min Scan# 3163

Delta R.T. -0.03 min

Lab File: VL038933.D

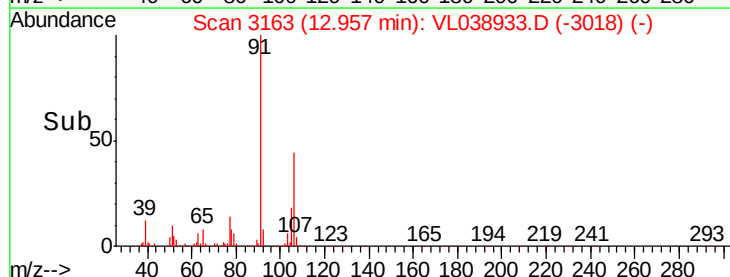
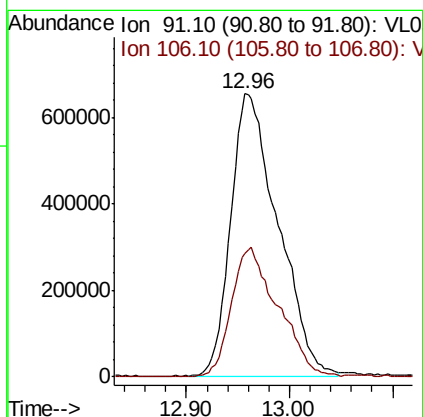
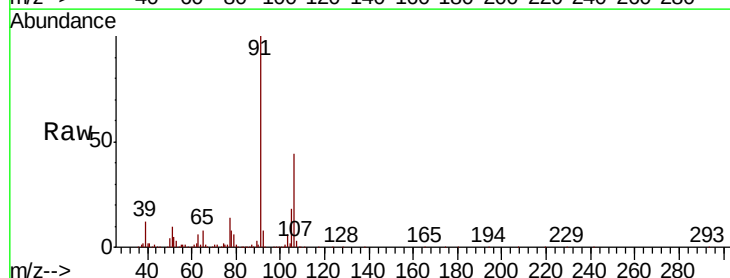
Acq: 15 Apr 2022 1:26

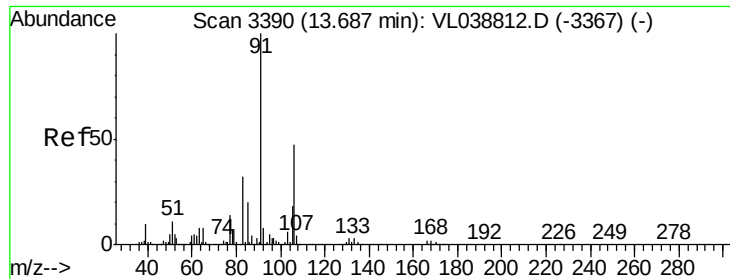
Tgt Ion: 91 Resp: 2077114

Ion Ratio Lower Upper

91 100

106 45.9 37.1 55.7



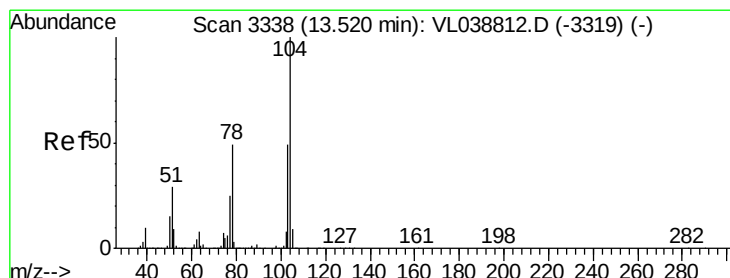
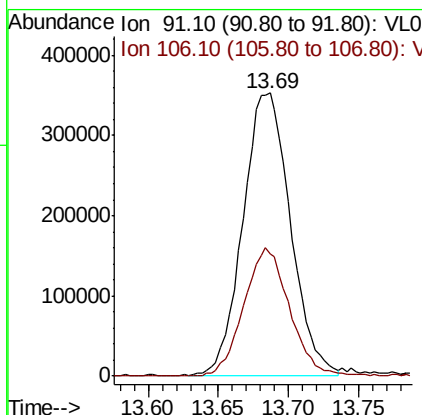
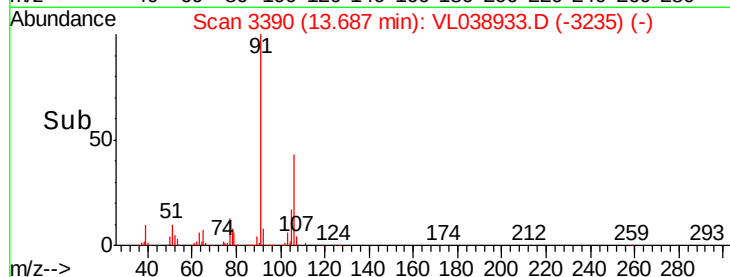
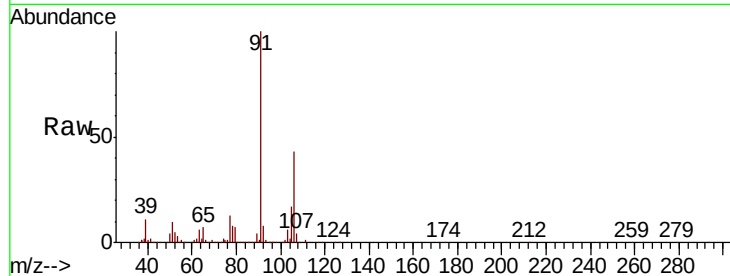


#60
o-Xylene
Concen: 2.551 ppbv
RT: 13.69
Delta R.T. MSVOA_L
Lab File: ClientSampled :
Acq: 15 Apr 2022 1:20

Tot Ion:
Ion Rati
91 100
106 43.

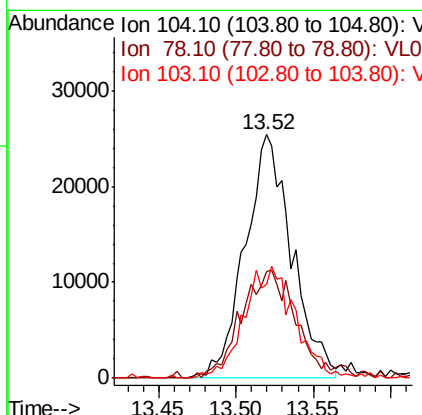
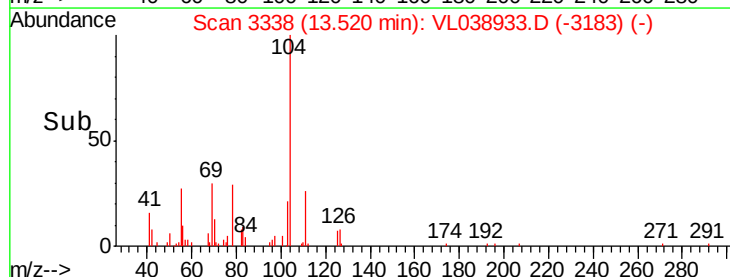
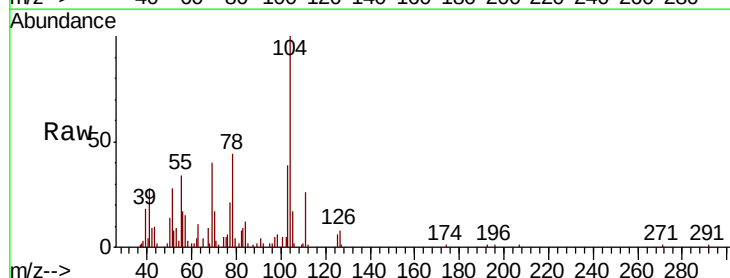
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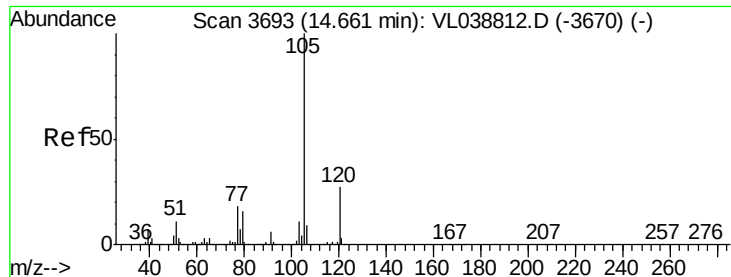
Reviewed By :Semsettin Yesilyurt 04/15/2022
Supervised By :Mahesh Dadoda 04/18/2022



#61
Styrene
Concen: 0.272 ppbv m
RT: 13.52 min Scan# 3338
Delta R.T. -0.00 min
Lab File: VL038933.D
Acq: 15 Apr 2022 1:26

Tgt Ion:104 Resp: 53636
Ion Ratio Lower Upper
104 100
78 53.8 40.5 60.7
103 50.0 39.0 58.4





#62

Isopropylbenzene

Concen: 0.226 ppbv m

RT: 14.66

Delta R.T. MSVOA_L

Lab File: ClientSampled :

Acq: 15 Apr 2022 1:20

Tot Ion:1

Ion Rati

105 100

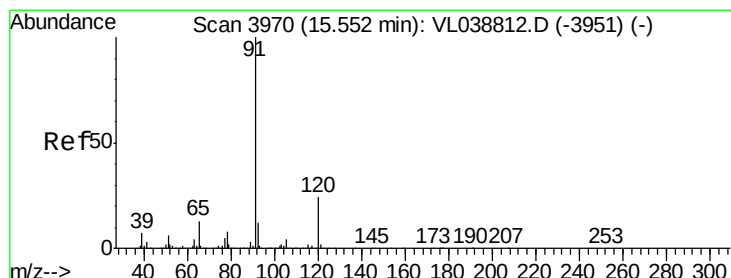
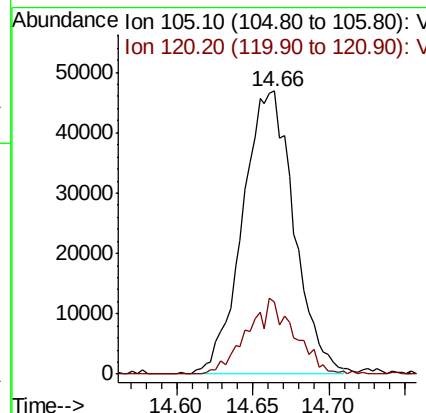
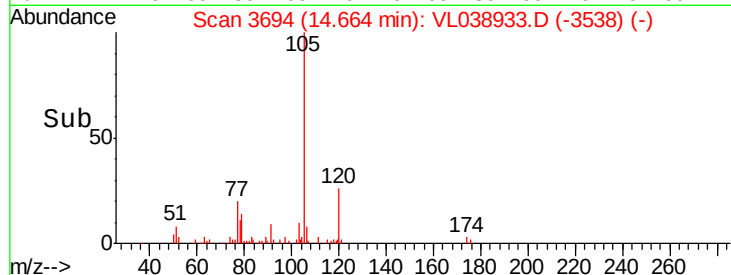
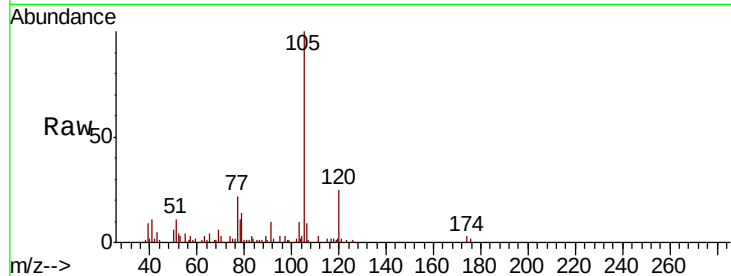
120 24.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/15/2022

Supervised By :Mahesh Dadoda 04/18/2022



#64

n-propylbenzene

Concen: 0.705 ppbv

RT: 15.55 min Scan# 3970

Delta R.T. -0.00 min

Lab File: VL038933.D

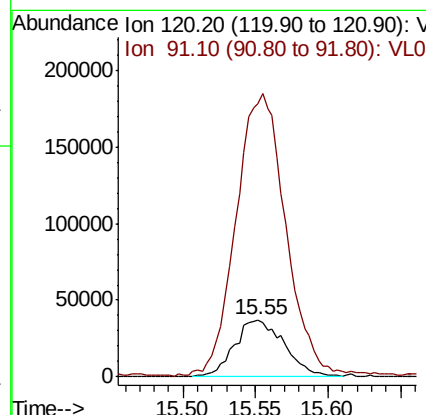
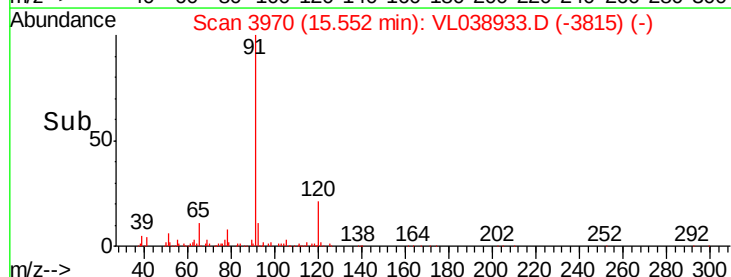
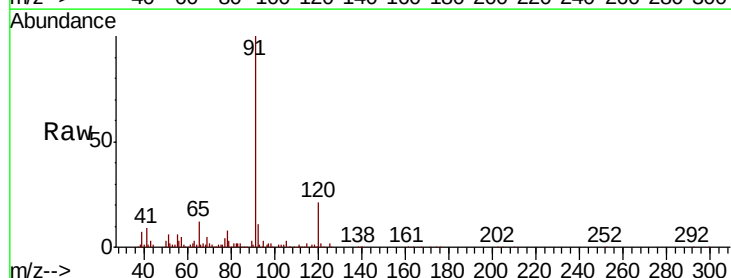
Acq: 15 Apr 2022 1:26

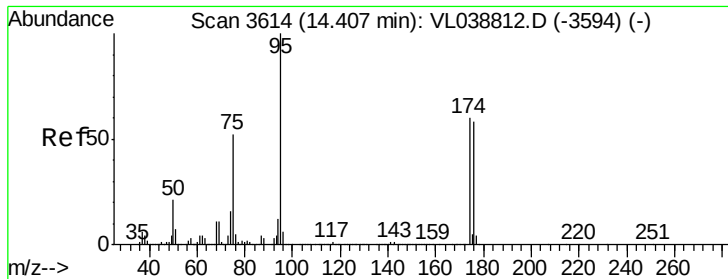
Tgt Ion:120 Resp: 89069

Ion Ratio Lower Upper

120 100

91 499.1 360.6 540.8



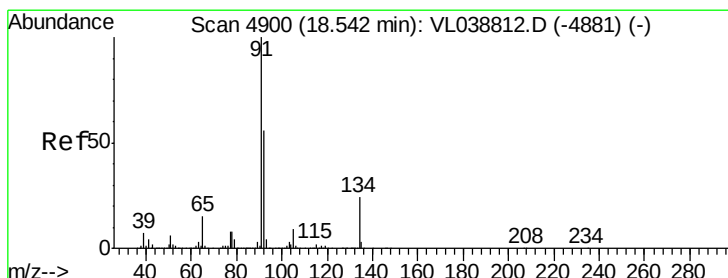
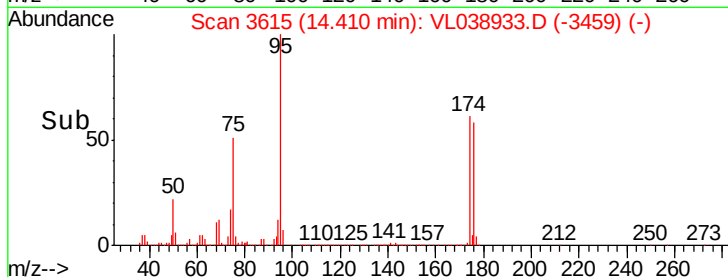
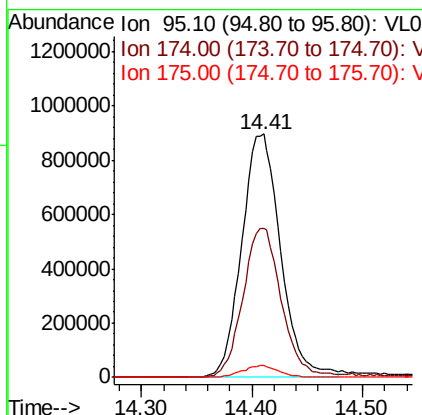
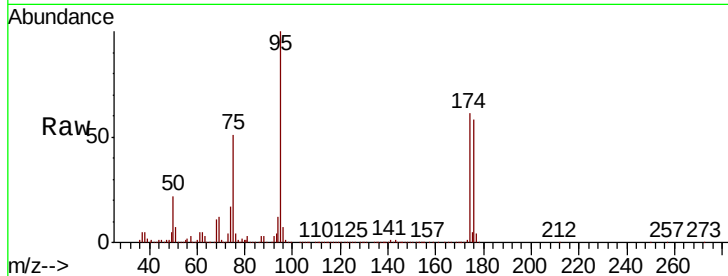


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.458 ppbv
 RT: 14.41 min
 Delta R.T.: 0.00 min
 Lab File: VL038812.D
 Acq: 15 Apr 2022 1:20

Tot Ion:
 Ion Ratio
 95 100
 174 62.1
 175 4.1

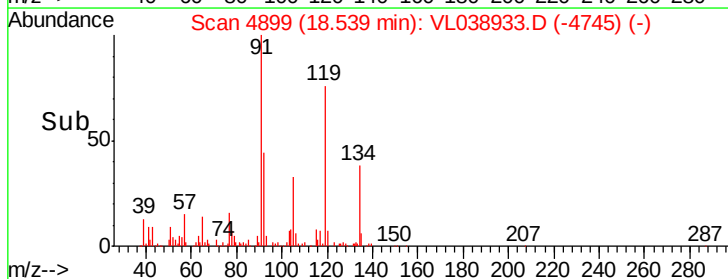
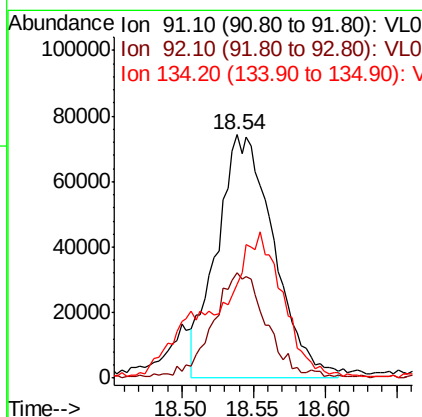
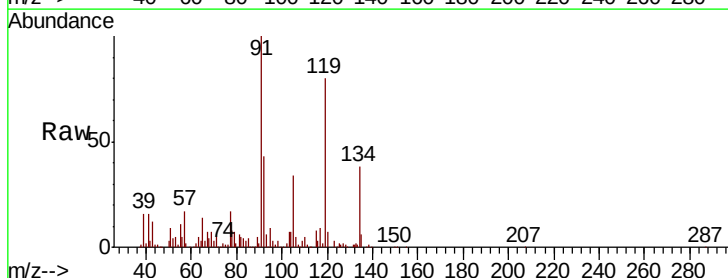
Manual Integrations
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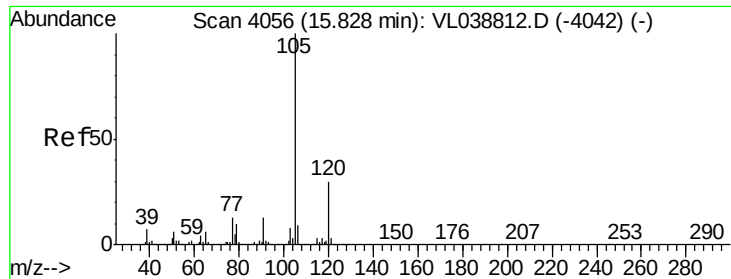
Reviewed By :Semsettin Yesilyurt 04/15/2022
 Supervised By :Mahesh Dadoda 04/18/2022



#70
 n-Butylbenzene
 Concen: 0.411 ppbv m
 RT: 18.54 min Scan# 4899
 Delta R.T.: -0.00 min
 Lab File: VL038933.D
 Acq: 15 Apr 2022 1:26

Tgt Ion: 91 Resp: 205663
 Ion Ratio Lower Upper
 91 100
 92 39.8 44.6 66.8#
 134 0.0 19.2 28.8#



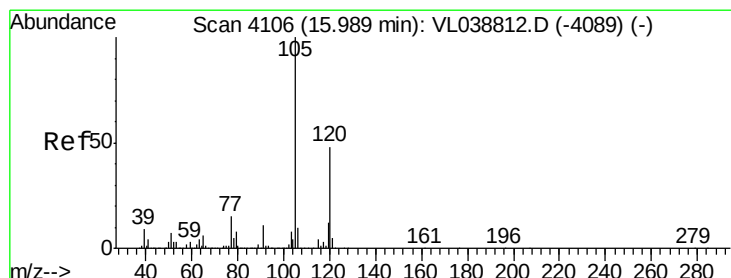
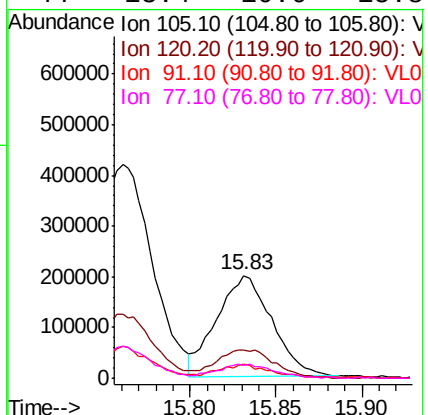
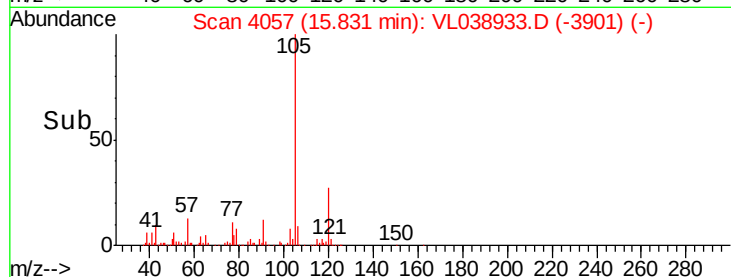
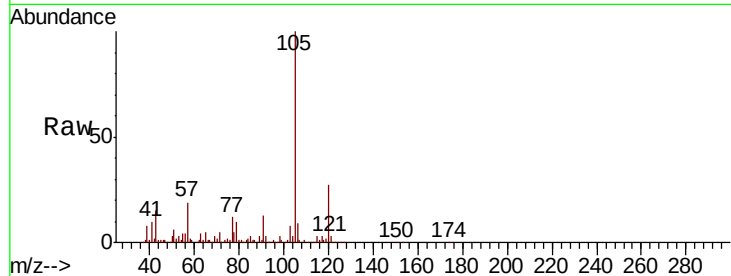


#72
 4-Ethyltoluene
 Concen: 1.151 ppbv
 RT: 15.83
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 15 Apr 2022 1:20

Tot Ion:1
 Ion Rati
 105 100
 120 30.
 91 11.
 77 13.4 10.6 15.8

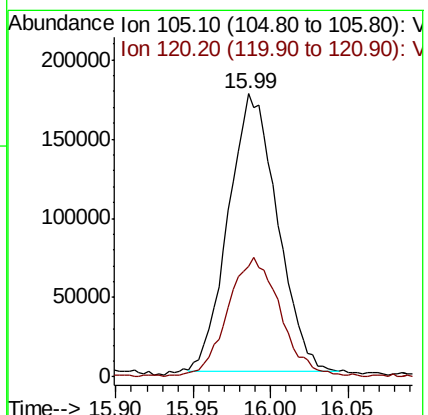
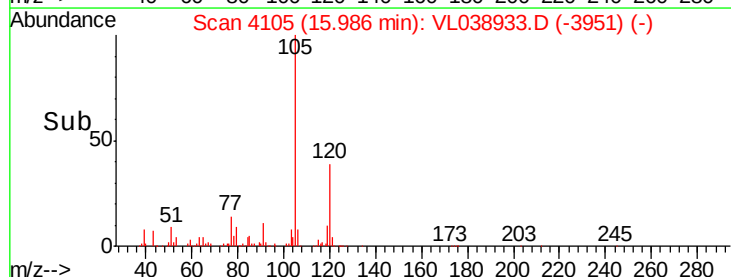
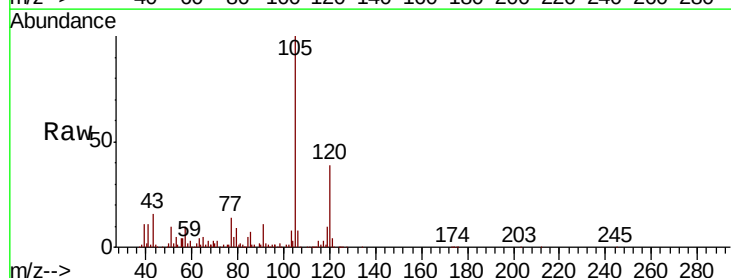
Manual Integrations
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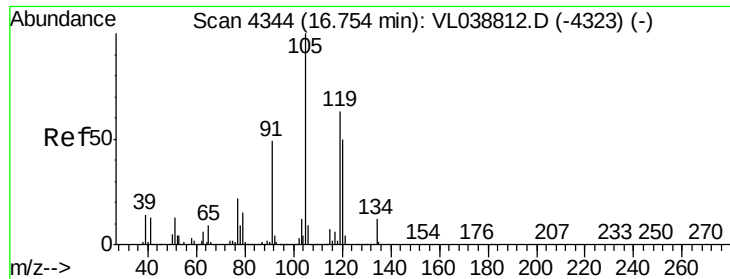
Reviewed By :Semsettin Yesilyurt 04/15/2022
 Supervised By :Mahesh Dadoda 04/18/2022



#73
 1,3,5-Trimethylbenzene
 Concen: 1.104 ppbv
 RT: 15.99 min Scan# 4105
 Delta R.T. -0.00 min
 Lab File: VL038933.D
 Acq: 15 Apr 2022 1:26

Tgt Ion:105 Resp: 383587
 Ion Ratio Lower Upper
 105 100
 120 38.9 38.7 58.1



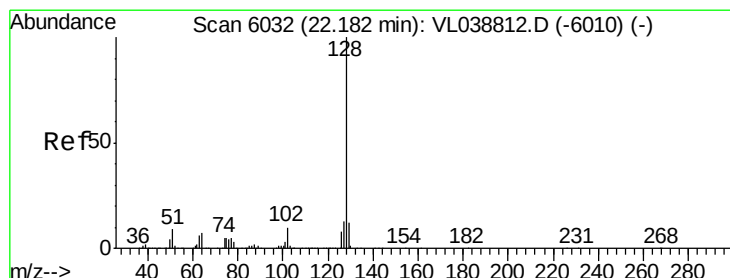
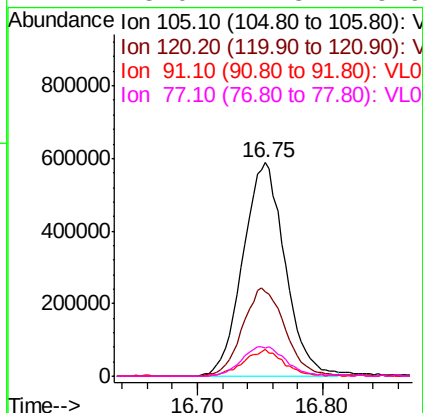
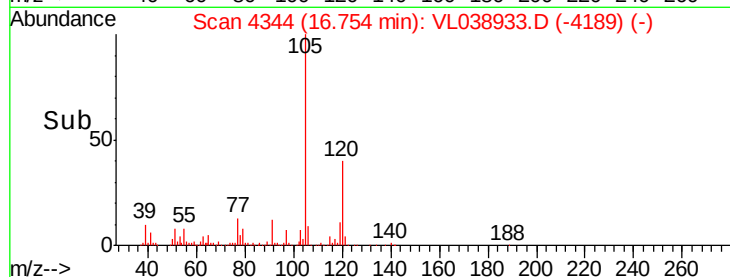
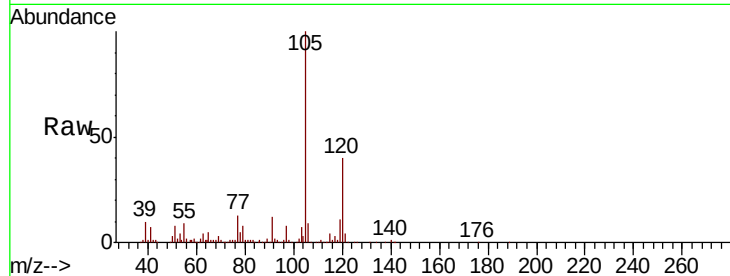


#74
 1,2,4-Trimethylbenzene
 Concen: 3.730 ppbv
 RT: 16.75
 Delta R.T. MSVOA_L
 Lab File: ClientSampled :
 Acq: 15 Apr 2022 1:20

Tot Ion:1
 Ion Rati
 105 100
 120 39.
 91 12.
 77 13.0 17.3 25.9#

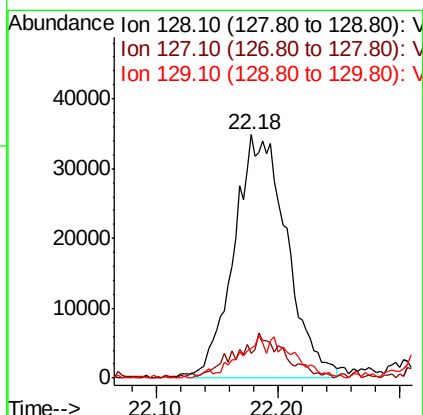
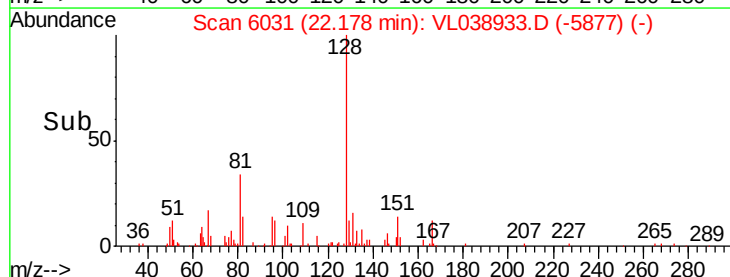
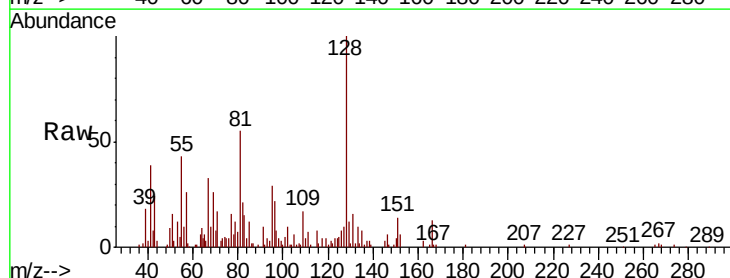
Manual Integrations
 APPROVED

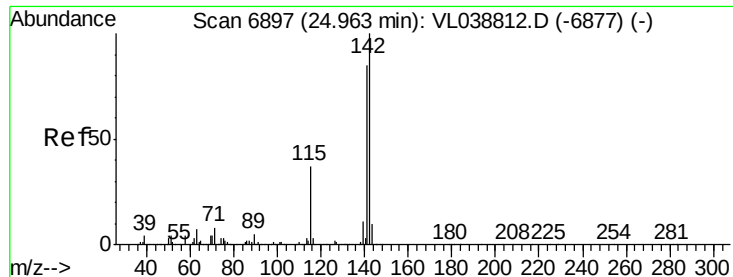
Reviewed By :Semsettin Yesilyurt 04/15/2022
 Supervised By :Mahesh Dadoda 04/18/2022



#79
 Naphthalene
 Concen: 0.382 ppbv m
 RT: 22.18 min Scan# 6031
 Delta R.T. -0.00 min
 Lab File: VL038933.D
 Acq: 15 Apr 2022 1:26

Tgt Ion:128 Resp: 105068
 Ion Ratio Lower Upper
 128 100
 127 10.1 10.6 15.8#
 129 12.2 9.4 14.0





#80
 Naphthalene, 2-methyl-
 Concen: 0.520 ppbv
 RT: 24.96
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 1165-19-1A-2
 Acq: 15 Apr 2022 1:20

Tot Ion:1
 Ion Rati
 142 100
 141 90.
 115 97.

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/15/2022
 Supervised By :Mahesh Dadoda 04/18/2022

