

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041422\
 Data File : VL038931.D
 Acq On : 15 Apr 2022 00:06
 Operator : SY/AP
 Sample : N2259-05
 Misc : 400mL/MSVOA L
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 1165-19-SG-5

Manual Integrations
 APPROVED

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

Quant Time: Apr 15 10:24:35 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	1173272	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2986599	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2617225	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2070699	10.43	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.30%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	82171	0.494	ppbv	98
4) Chloromethane	3.14	50	34102	0.460	ppbv	94
9) Propene	3.02	41	390589m	5.156	ppbv	
10) Heptane	8.12	43	2662348	13.952	ppbv	96
11) Trichlorofluoromethane	3.95	101	182687	1.366	ppbv	92
13) Ethanol	3.60	45	699676	151.974	ppbv #	100
15) Acetone	3.84	43	24155662	206.795	ppbv #	73
20) Methylene Chloride	4.35	84	642738	15.172	ppbv	96
25) Ethyl Acetate	5.68	43	569871	1.923	ppbv #	88
26) Hexane	5.69	57	529527	3.925	ppbv #	55
30) Cyclohexane	7.12	84	92102m	0.775	ppbv	
34) 2-Butanone	5.24	43	163386	1.384	ppbv	96
35) Carbon Tetrachloride	7.02	117	10761m	0.060	ppbv	
36) Benzene	6.89	78	230298	0.848	ppbv	95
44) 2,2,4-Trimethylpentane	7.86	57	232923	0.506	ppbv #	1
50) 4-Methyl-2-Pentanone	8.74	43	637932	2.403	ppbv	96
52) Tetrachloroethene	11.22	164	9723m	0.102	ppbv	
53) Toluene	9.81	91	14590705	46.520	ppbv	92
58) Ethyl Benzene	12.71	91	804818	2.058	ppbv	92
59) m/p-Xylene	12.96	91	1929239	5.872	ppbv	99
60) o-Xylene	13.69	91	751093	2.443	ppbv	97
61) Styrene	13.52	104	22390	0.120	ppbv #	76
62) Isopropylbenzene	14.66	105	102365m	0.222	ppbv	
64) n-propylbenzene	15.55	120	87858m	0.733	ppbv	
67) sec-Butylbenzene	17.28	105	107414	0.187	ppbv	100
70) n-Butylbenzene	18.54	91	238151	0.501	ppbv #	59
72) 4-Ethyltoluene	15.83	105	429547	1.170	ppbv	98
73) 1,3,5-Trimethylbenzene	15.99	105	379580	1.151	ppbv	89
74) 1,2,4-Trimethylbenzene	16.75	105	1336974	3.835	ppbv #	69
79) Naphthalene	22.19	128	100519m	0.385	ppbv	
80) Naphthalene,2-methyl-	24.97	142	30810	0.479	ppbv #	42

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL041422\
Data File : VL038931.D
Acq On : 15 Apr 2022 00:06
Operator : SY/AP
Sample : N2259-05
Misc : 400mL/MSVOA L
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
1165-19-SG-5

Manual Integrations
APPROVED

Quant Time: Apr 15 10:24:35 2022

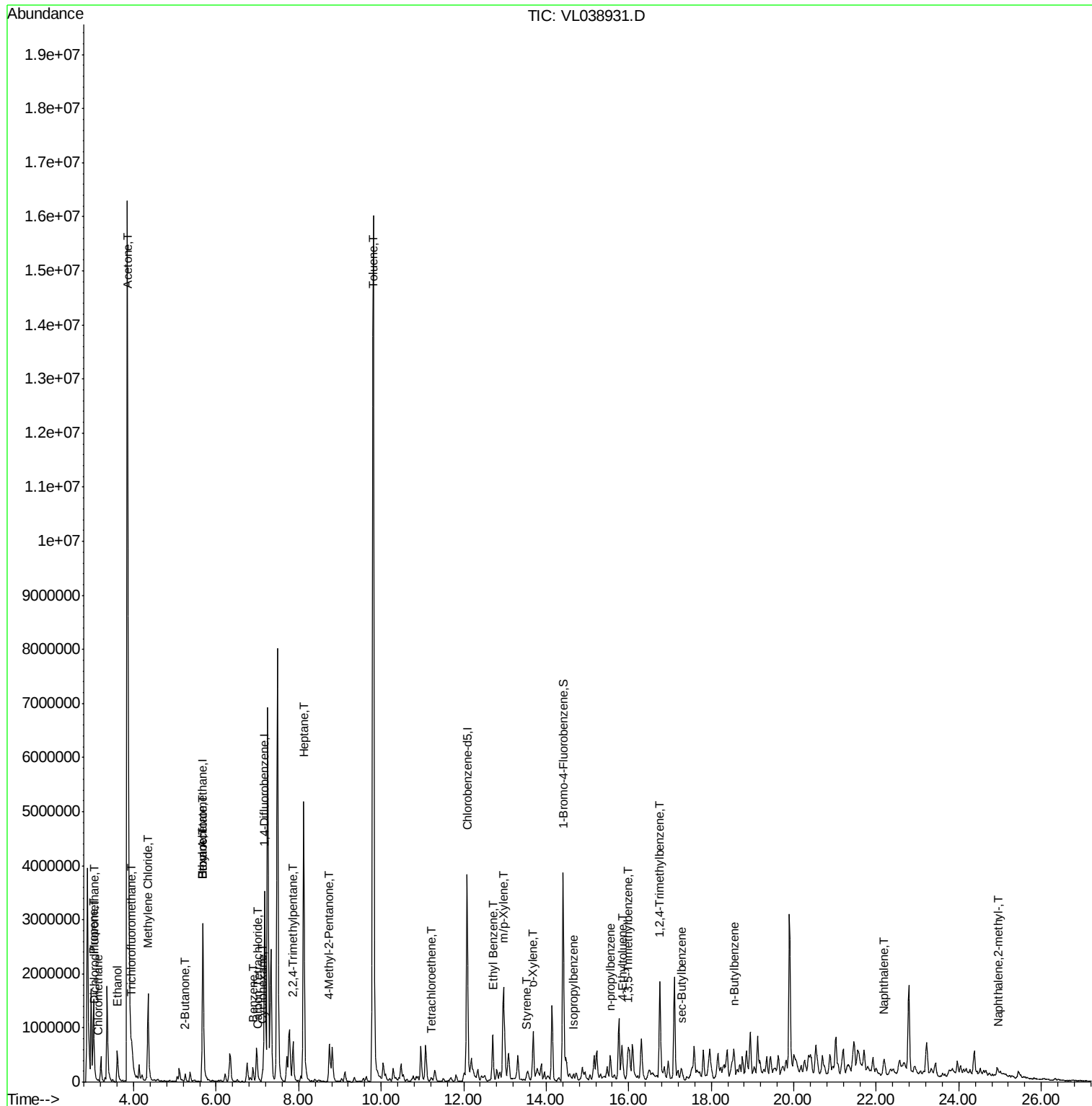
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL040522

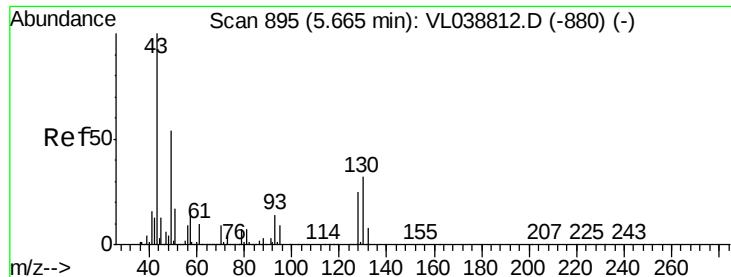
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

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-SG-5

Acq: 15 Apr 2022 00:00

Tot Ion:

Ion Ratio

49 100

128 47.

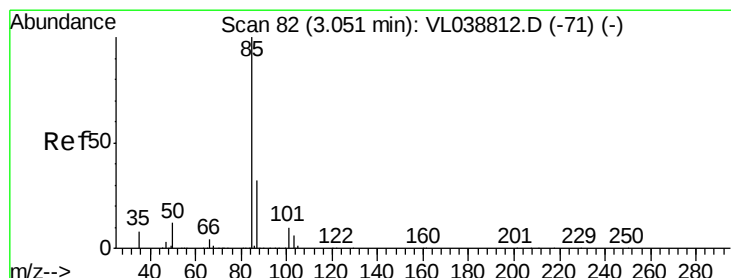
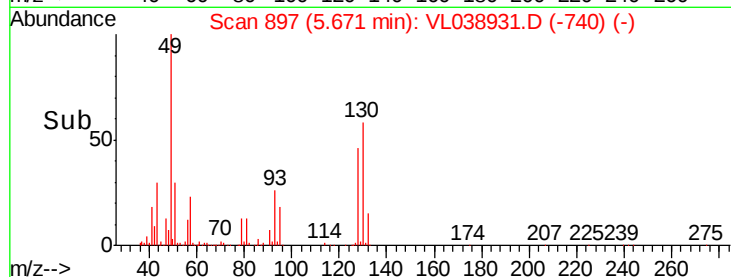
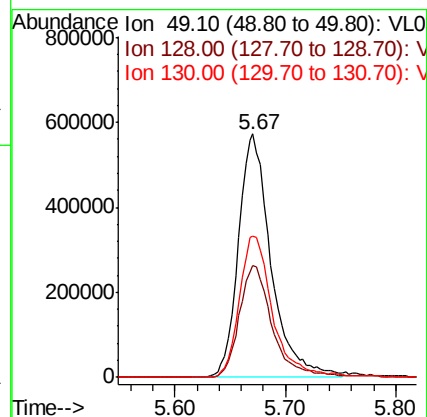
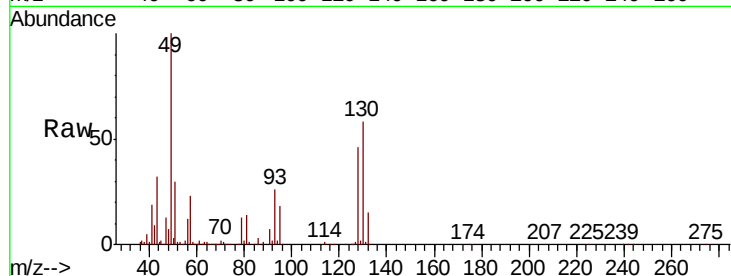
130 60.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/15/2022

Supervised By :Mahesh Dadoda 04/18/2022



#2

Dichlorodifluoromethane

Concen: 0.494 ppbv

RT: 3.05 min Scan# 82

Delta R.T. -0.00 min

Lab File: VL038931.D

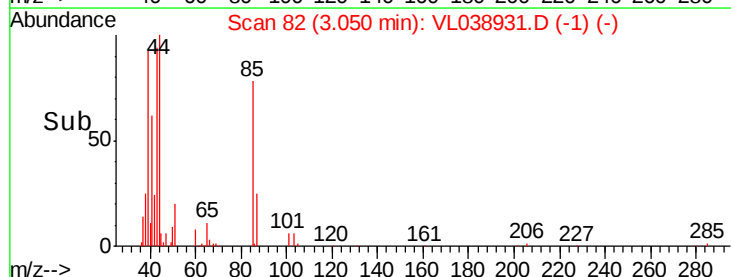
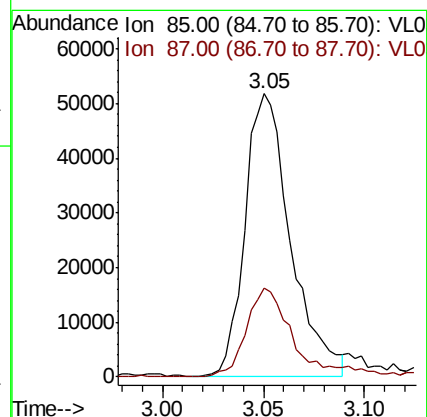
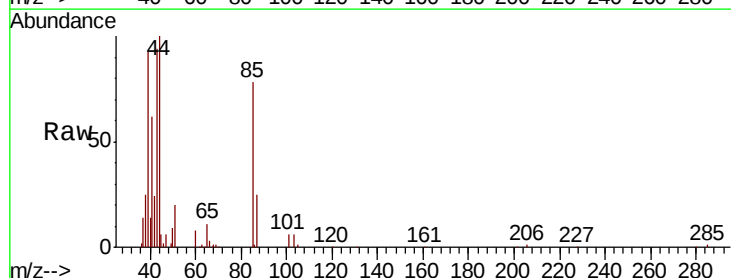
Acq: 15 Apr 2022 00:06

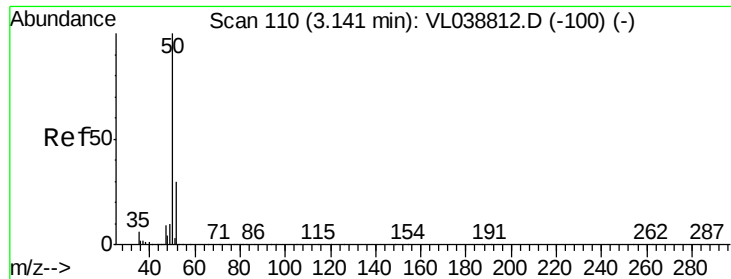
Tgt Ion: 85 Resp: 82171

Ion Ratio Lower Upper

85 100

87 31.3 25.9 38.9





#4

Chloromethane

Concen: 0.460 ppbv

RT: 3.14 Instrument: MSVOA_1

Delta R.T. 0.01

Lab File: ClientSampleId :

Acq: 15 Apr 2022 00:00

Tot Ion:

Ion Ratio

50 100

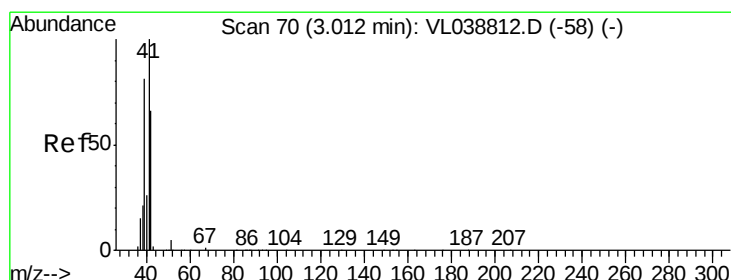
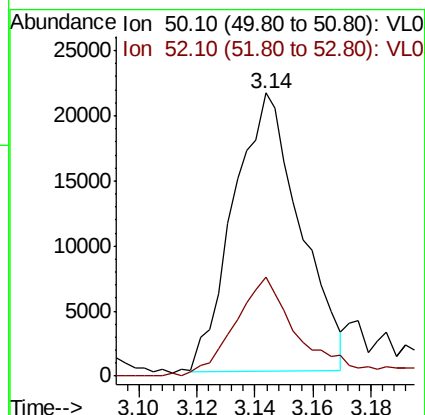
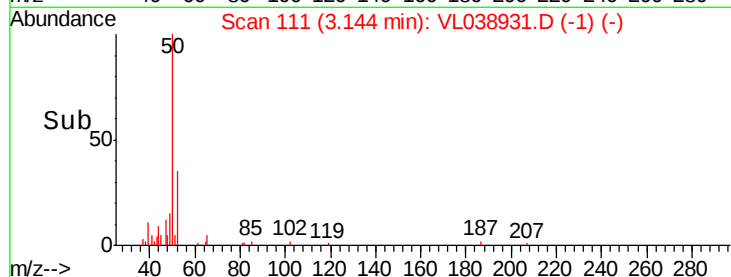
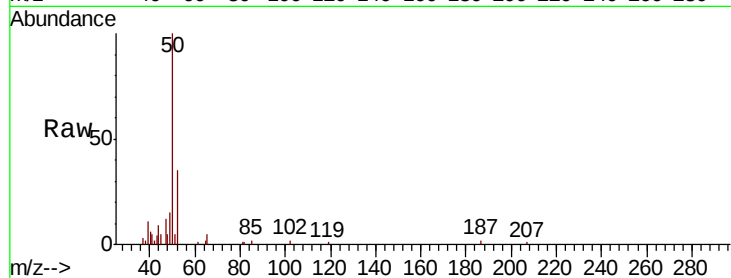
52 33.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/15/2022

Supervised By :Mahesh Dadoda 04/18/2022



#9

Propene

Concen: 5.156 ppbv m

RT: 3.02 min Scan# 74

Delta R.T. 0.01 min

Lab File: VL038931.D

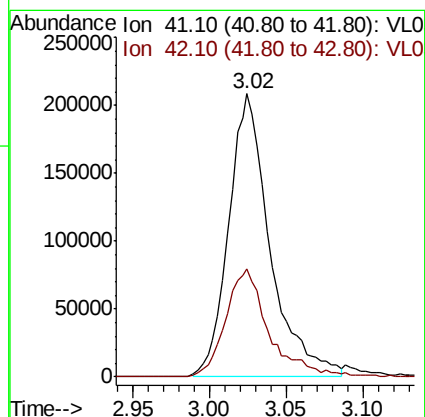
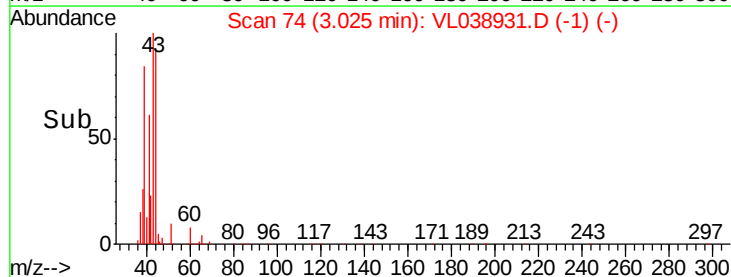
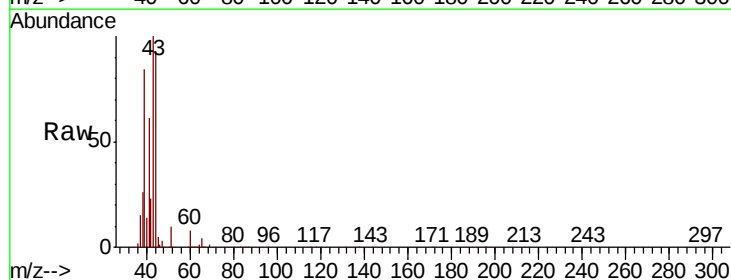
Acq: 15 Apr 2022 00:06

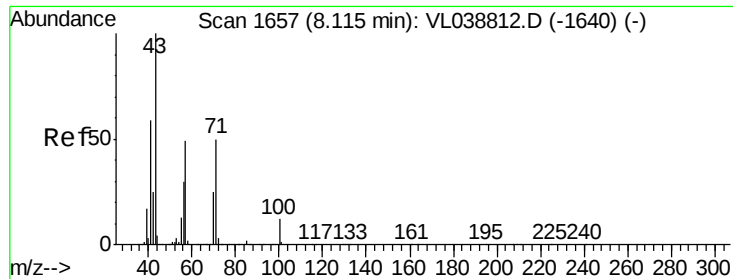
Tgt Ion: 41 Resp: 390589

Ion Ratio Lower Upper

41 100

42 28.0 54.2 81.4#



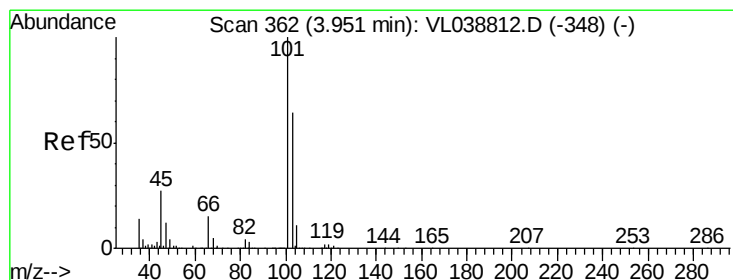
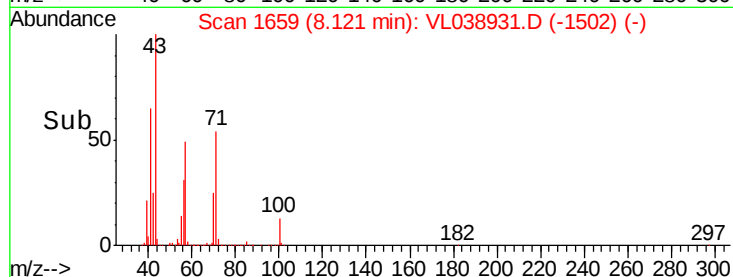
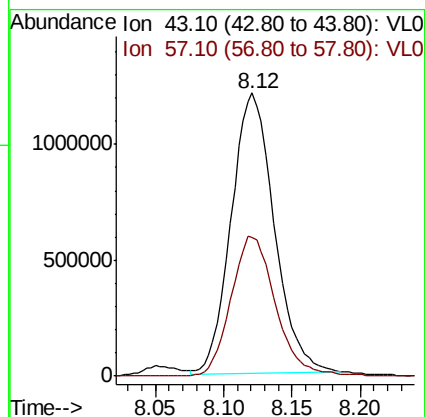
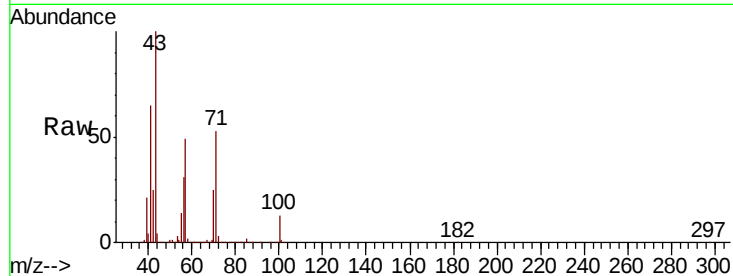


#10
 Heptane
 Concen: 13.952 ppbv
 RT: 8.12
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 1165-19-SG-5
 Acq: 15 Apr 2022 00:00

Tot Ion:
 Ion Ratio
 43 100
 57 51.

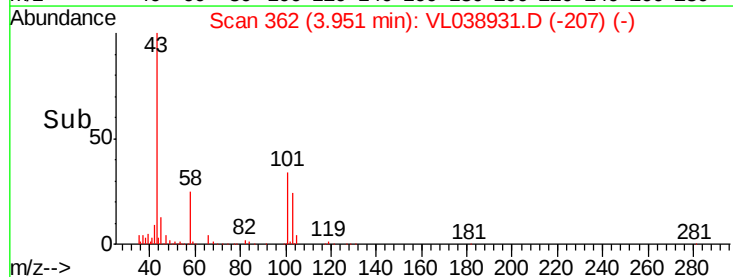
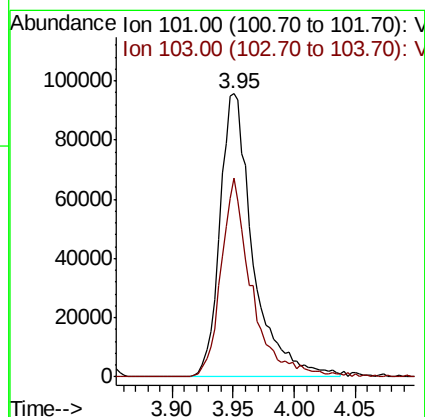
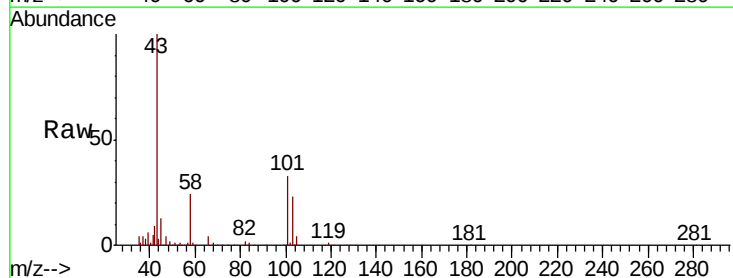
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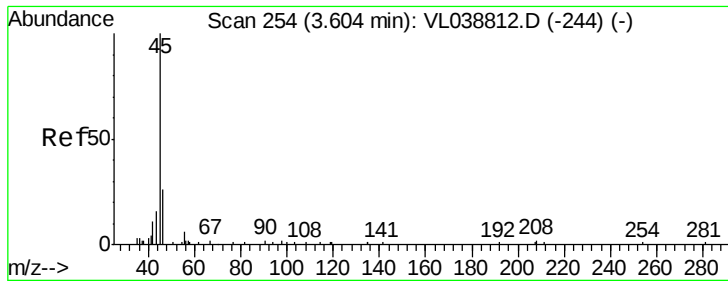
Reviewed By :Semsettin Yesilyurt 04/15/2022
 Supervised By :Mahesh Dadoda 04/18/2022



#11
 Trichlorofluoromethane
 Concen: 1.366 ppbv
 RT: 3.95 min Scan# 362
 Delta R.T. -0.00 min
 Lab File: VL038931.D
 Acq: 15 Apr 2022 00:06

Tgt Ion:101 Resp: 182687
 Ion Ratio Lower Upper
 101 100
 103 70.1 51.4 77.0



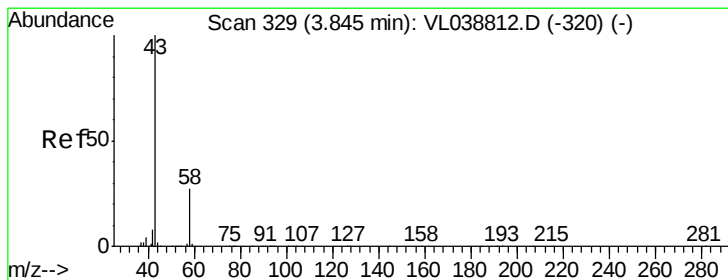
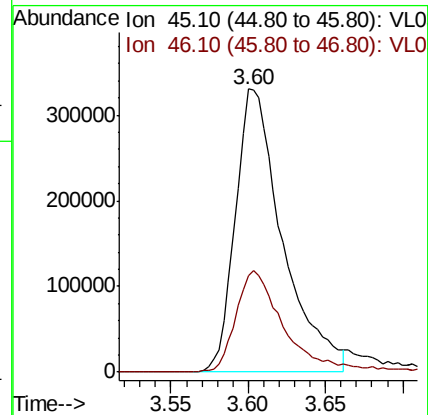
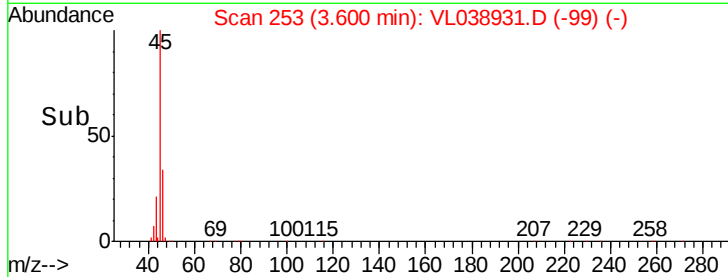
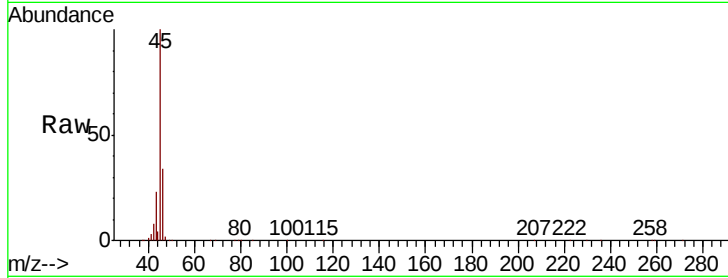


#13
Ethanol
Concen: 151.974 ppbv
RT: 3.60
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 15 Apr 2022 00:00

Tot Ion:
Ion Ratio
45 100
46 38.

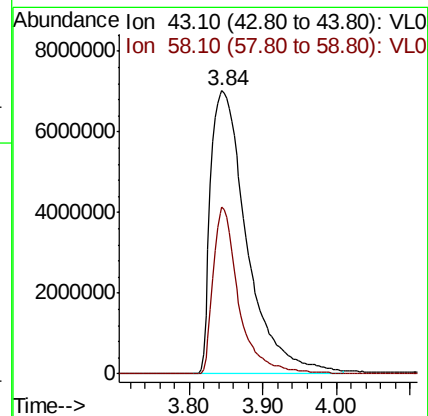
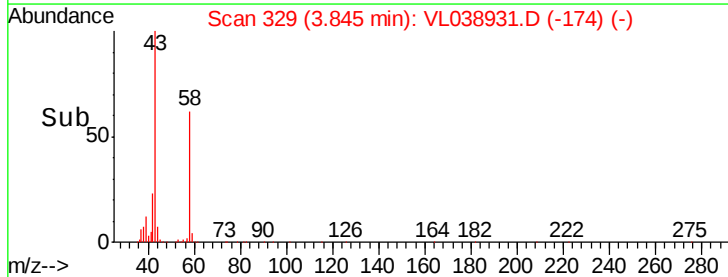
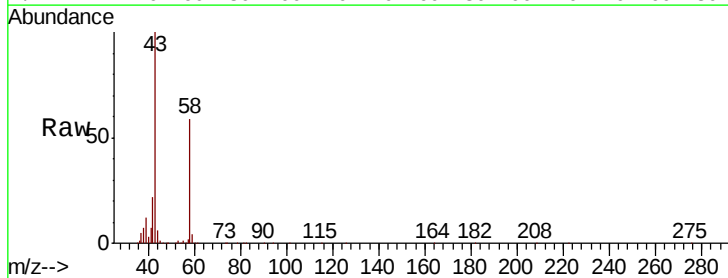
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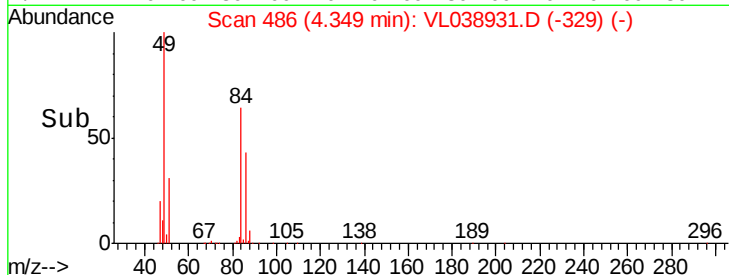
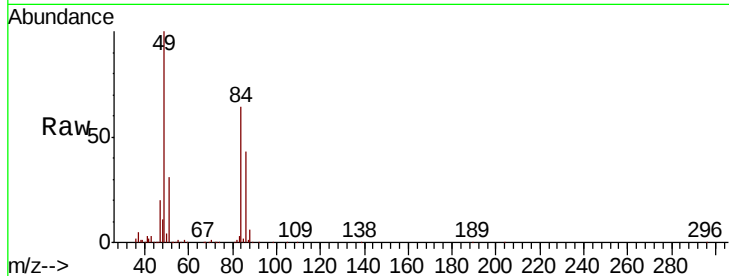
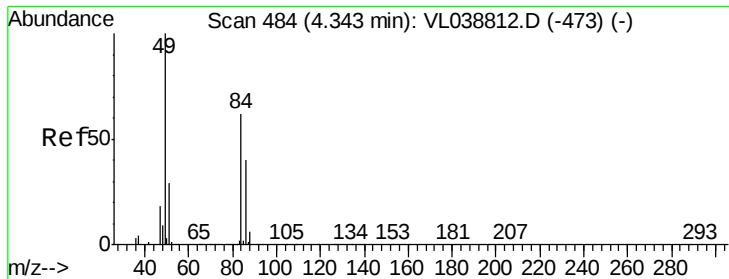
Reviewed By :Semsettin Yesilyurt 04/15/2022
Supervised By :Mahesh Dadoda 04/18/2022



#15
Acetone
Concen: 206.795 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.00 min
Lab File: VL038931.D
Acq: 15 Apr 2022 00:06

Tgt Ion: 43 Resp:24155662
Ion Ratio Lower Upper
43 100
58 42.1 22.5 33.7#



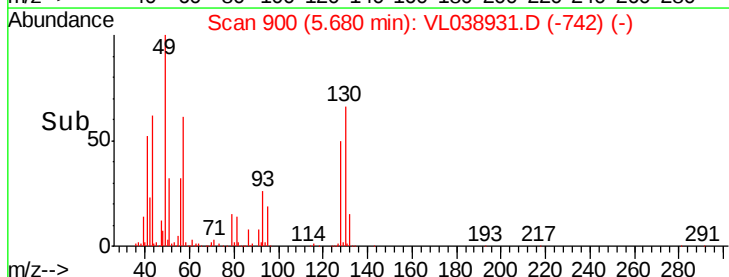
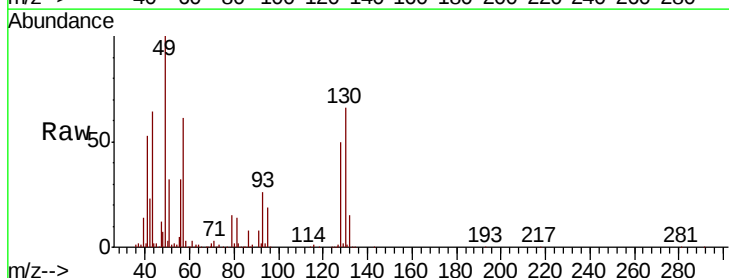
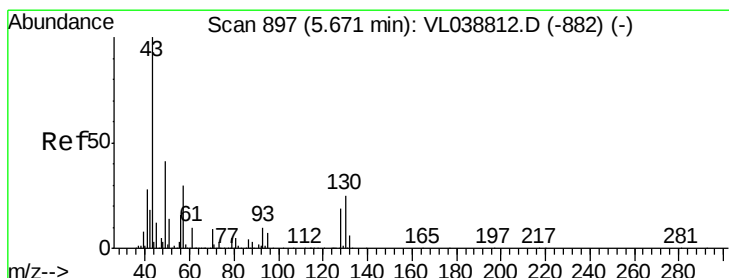
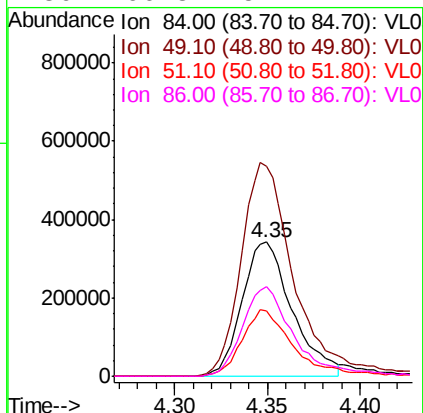


#20
Methvlene Chloride
Concen: 15.172 ppbv
RT: 4.35
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 15 Apr 2022 00:00

Tot Ion:
Ion Ratio
84 100
49 156.
51 48.
86 66.8 51.4 77.2

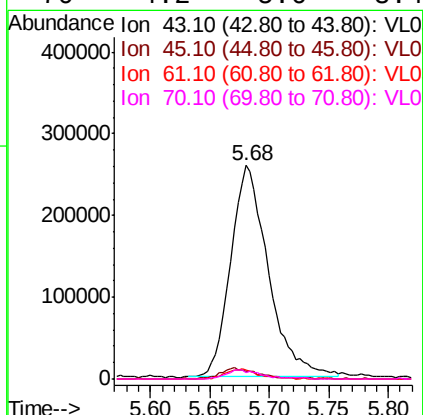
Manual Integrations
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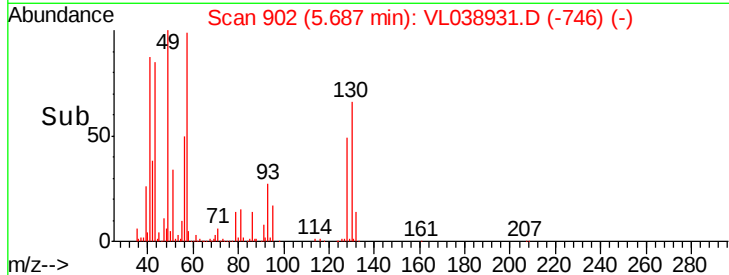
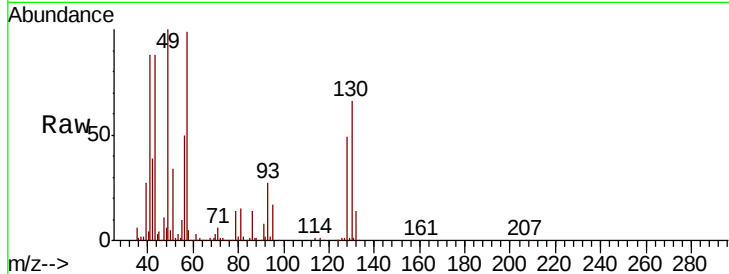
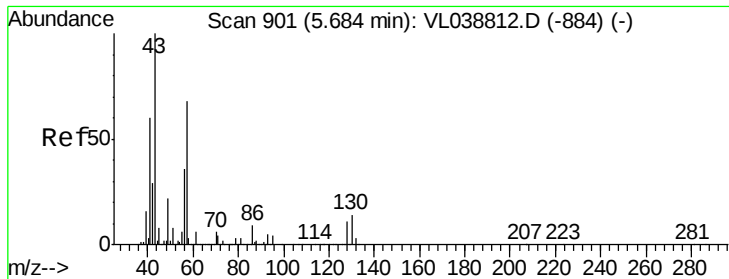
Reviewed By :Semsettin Yesilyurt 04/15/2022
Supervised By :Mahesh Dadoda 04/18/2022



#25
Ethyl Acetate
Concen: 1.923 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.01 min
Lab File: VL038931.D
Acq: 15 Apr 2022 00:06

Tgt Ion: 43 Resp: 569871
Ion Ratio Lower Upper
43 100
45 5.6 8.4 12.6#
61 4.5 7.9 11.9#
70 4.2 5.6 8.4#



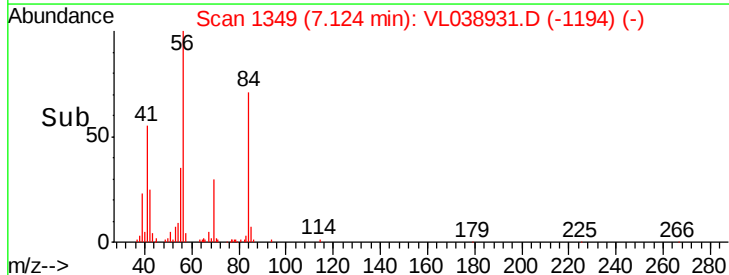
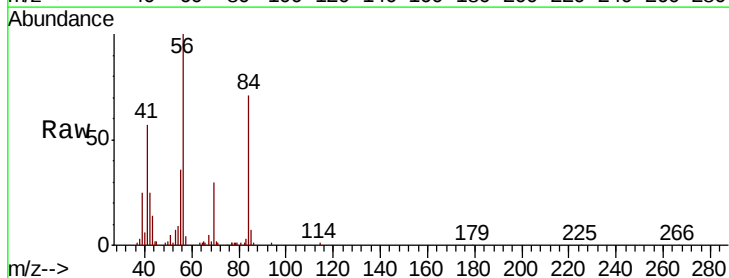
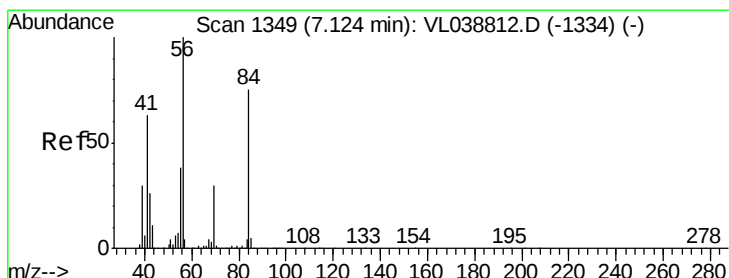
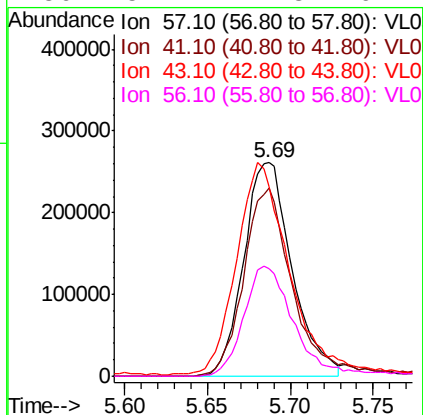


#26
Hexane
Concen: 3.925 ppbv
RT: 5.69
Delta R.T. MSVOA_L
Lab File: ClientSampled :
Acq: 15 Apr 2022 00:00

Tot Ion:
Ion Ratio
57 100
41 90.
43 113.
56 54.7 42.8 64.2

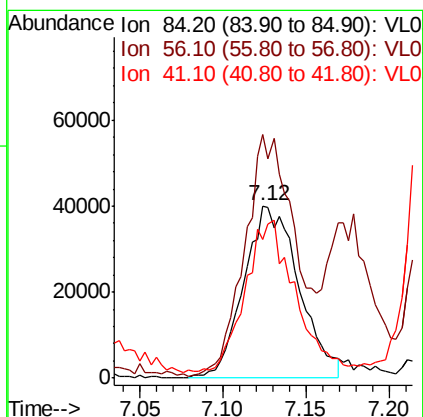
Manual Integrations
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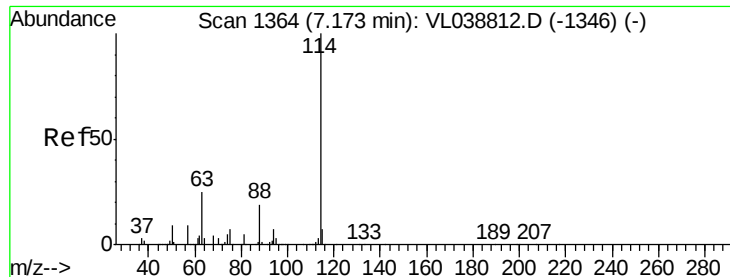
Reviewed By :Semsettin Yesilyurt 04/15/2022
Supervised By :Mahesh Dadoda 04/18/2022



#30
Cyclohexane
Concen: 0.775 ppbv m
RT: 7.12 min Scan# 1349
Delta R.T. -0.00 min
Lab File: VL038931.D
Acq: 15 Apr 2022 00:06

Tgt Ion: 84 Resp: 92102
Ion Ratio Lower Upper
84 100
56 68.9 114.4 171.6#
41 80.5 69.0 103.4



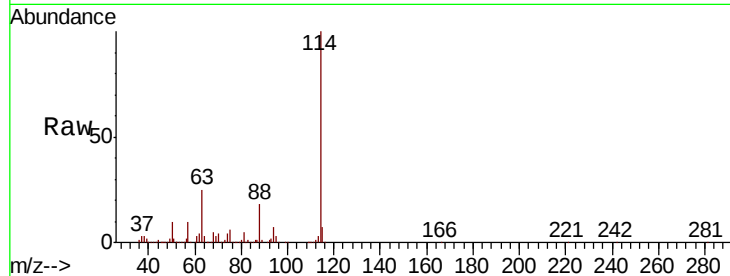


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 15 Apr 2022 00:00

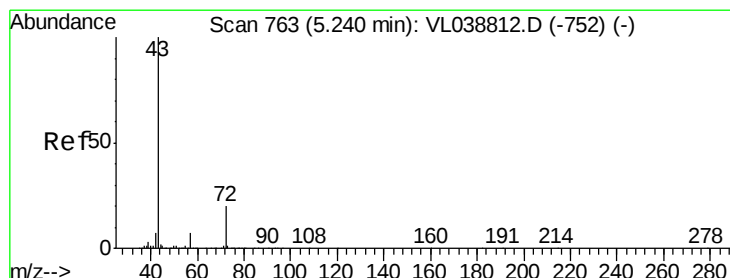
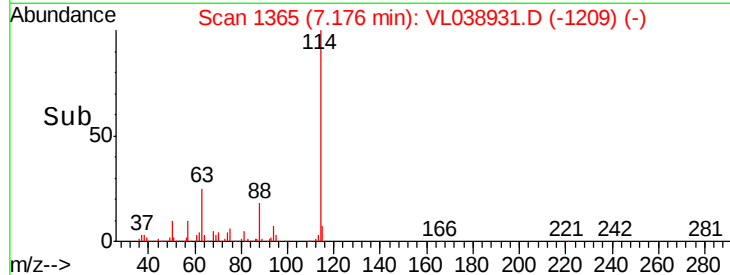
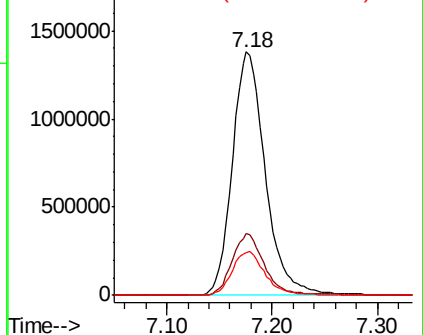
Tot Ion: 1
 Ion Ratio
 114 100
 63 25.
 88 18.

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

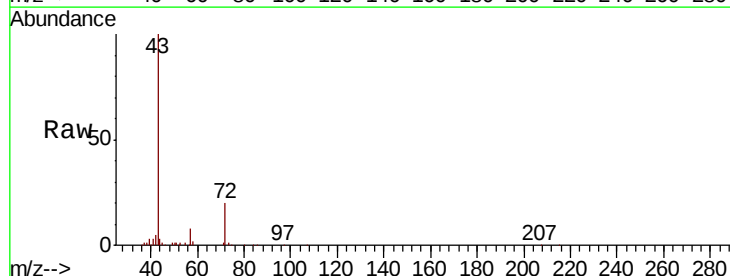


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

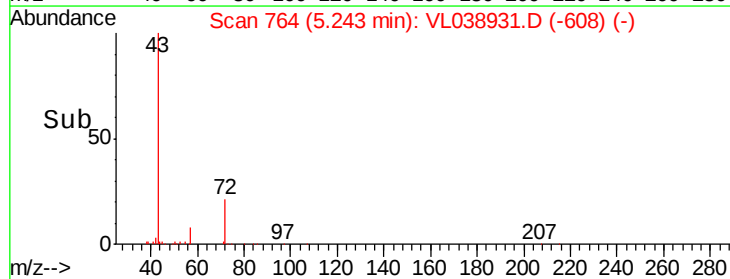
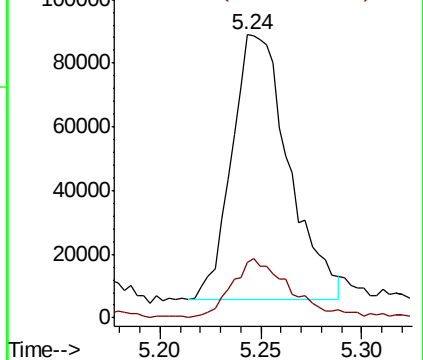


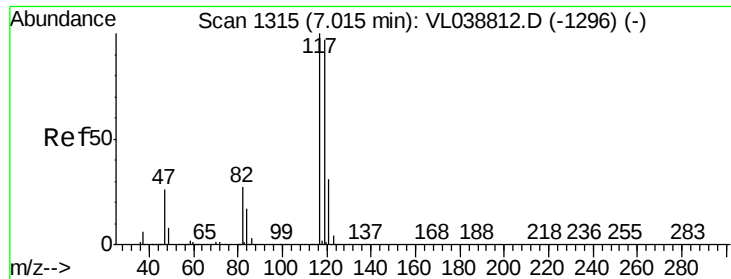
#34
 2-Butanone
 Concen: 1.384 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T.: 0.00 min
 Lab File: VL038931.D
 Acq: 15 Apr 2022 00:06

Tgt Ion: 43 Resp: 163386
 Ion Ratio Lower Upper
 43 100
 72 23.0 16.9 25.3



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0



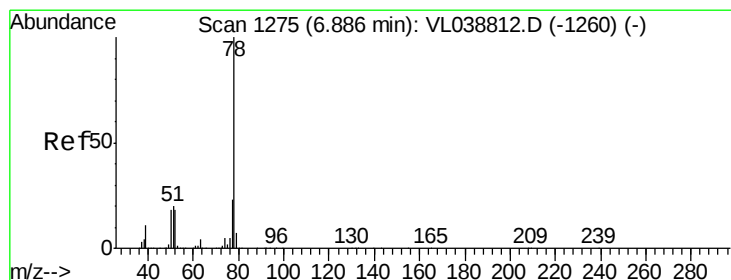
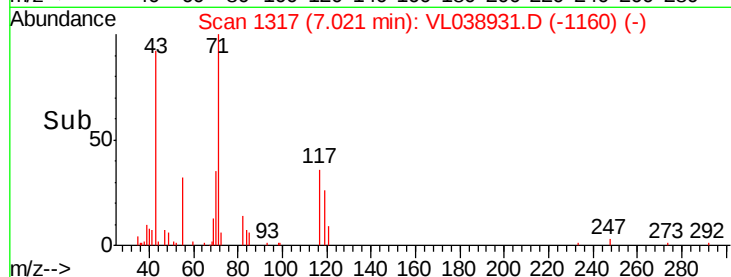
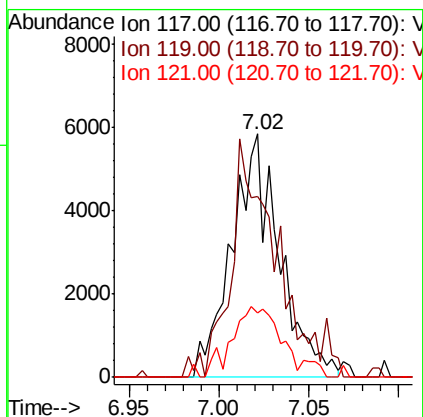
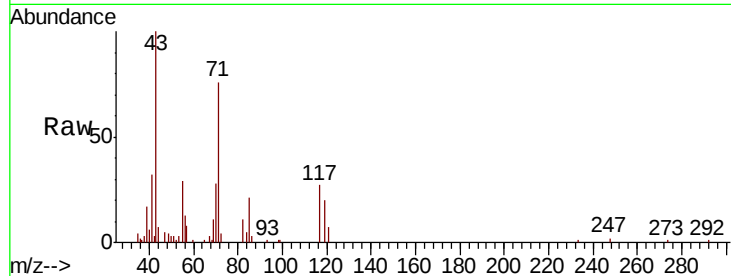


#35
Carbon Tetrachloride
Concen: 0.060 ppbv m
RT: 7.02
Instrument: MSVOA_L
Delta R.T.
Lab File: ClientSampled :
Acq: 15 Apr 2022 00:00

Tot Ion:1
Ion Rati
117 100
119 74.
121 26.

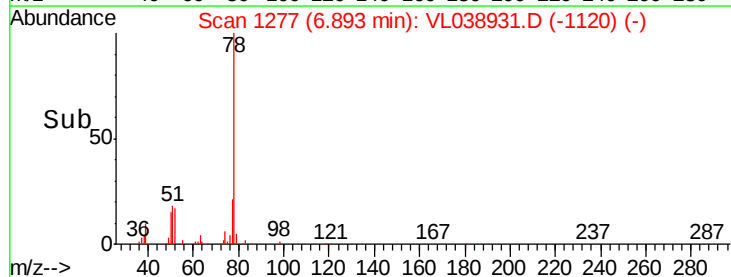
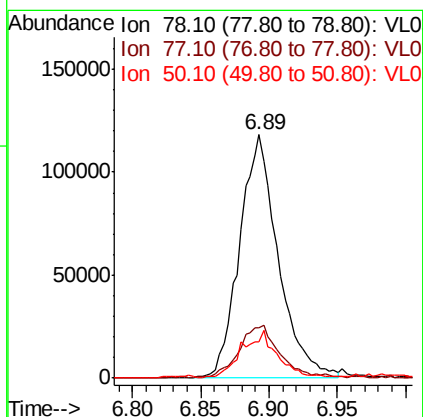
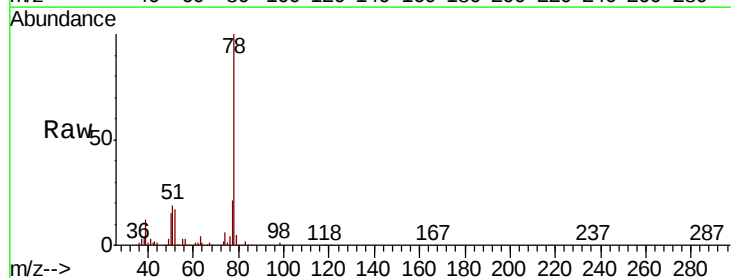
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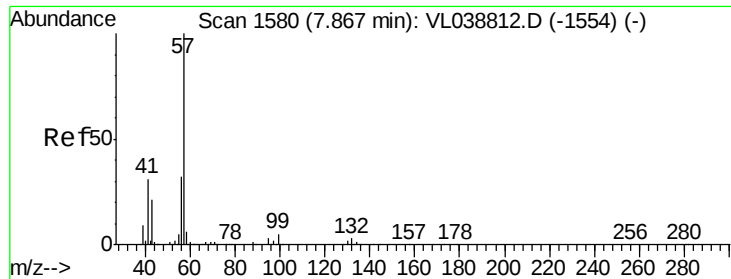
Reviewed By :Semsettin Yesilyurt 04/15/2022
Supervised By :Mahesh Dadoda 04/18/2022



#36
Benzene
Concen: 0.848 ppbv
RT: 6.89 min Scan# 1277
Delta R.T. 0.01 min
Lab File: VL038931.D
Acq: 15 Apr 2022 00:06

Tgt Ion: 78 Resp: 230298
Ion Ratio Lower Upper
78 100
77 20.9 18.2 27.2
50 14.1 14.0 21.0





#44

2,2,4-Trimethylpentane

Concen: 0.506 ppbv

RT: 7.86 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 15 Apr 2022 00:00

Tot Ion:

Ion Ratio

57 100

41 106.

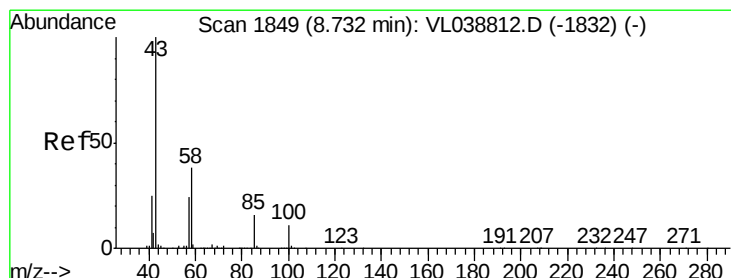
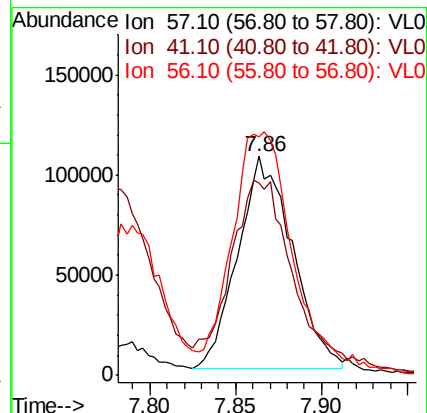
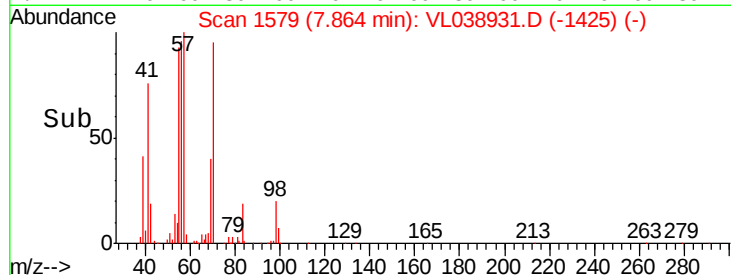
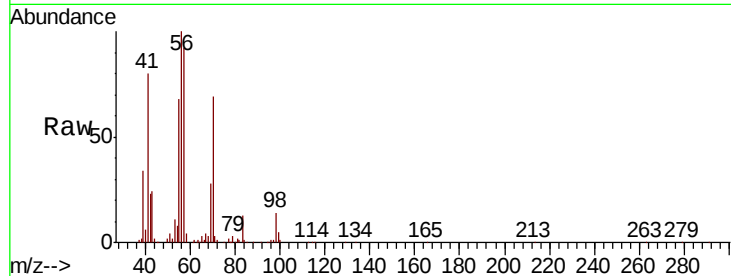
56 131.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/15/2022

Supervised By :Mahesh Dadoda 04/18/2022



#50

4-Methyl-2-Pentanone

Concen: 2.403 ppbv

RT: 8.74 min Scan# 1851

Delta R.T. 0.01 min

Lab File: VL038931.D

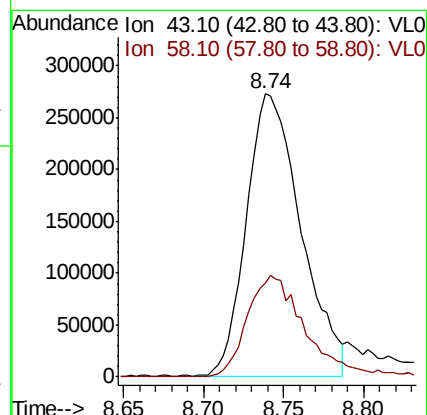
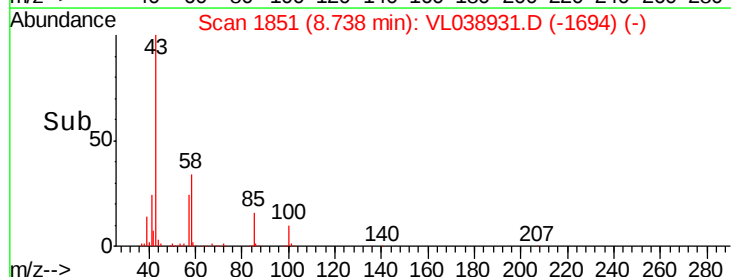
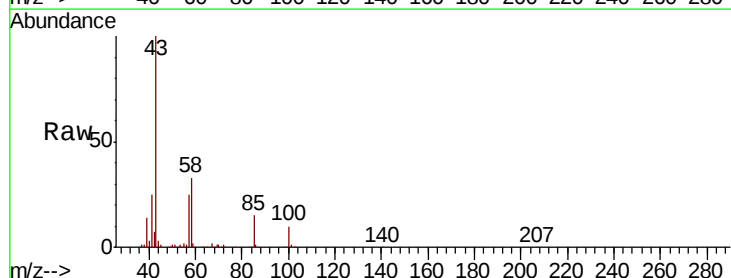
Acq: 15 Apr 2022 00:06

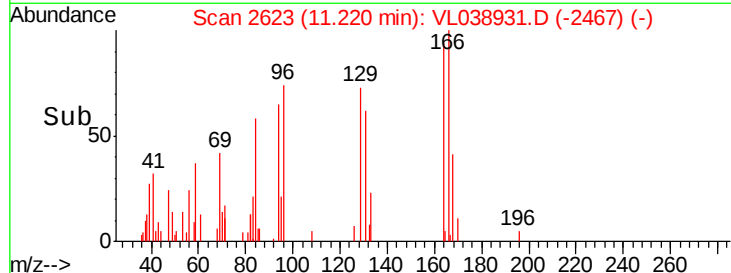
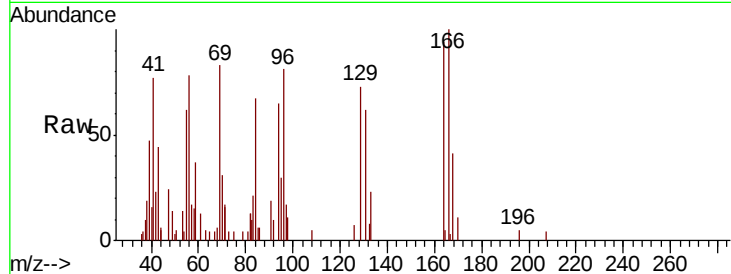
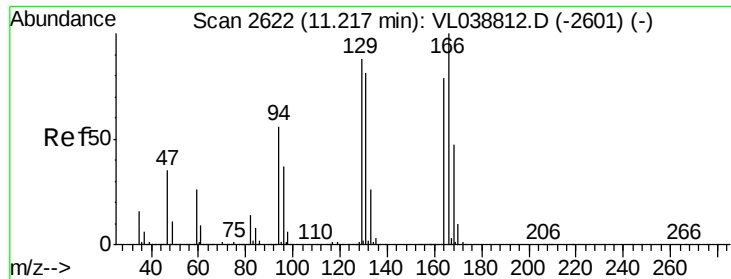
Tgt Ion: 43 Resp: 637932

Ion Ratio Lower Upper

43 100

58 38.6 29.0 43.6





#52

Tetrachloroethene

Concen: 0.102 ppbv m

RT: 11.22

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 15 Apr 2022 00:00

Tot Ion:1

Ion Ratio

164 100

166 105.

129 77.

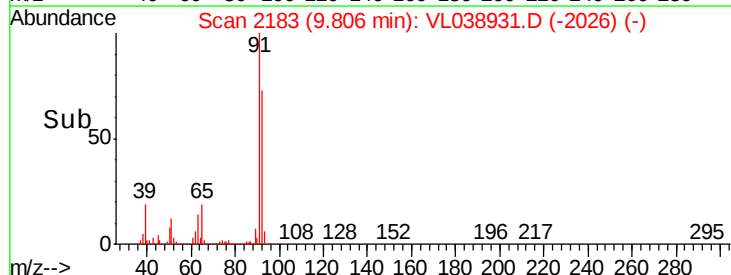
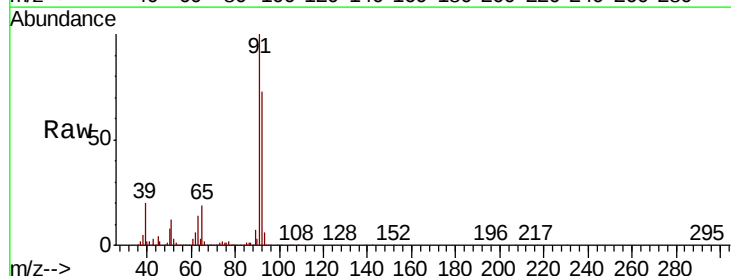
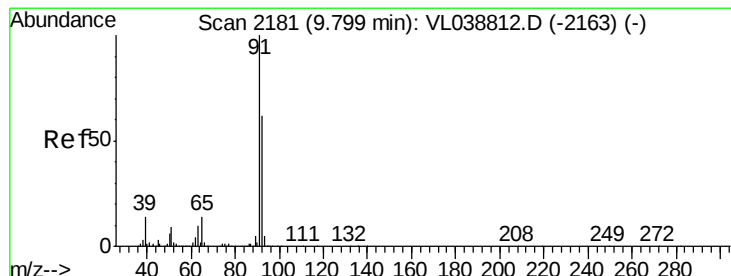
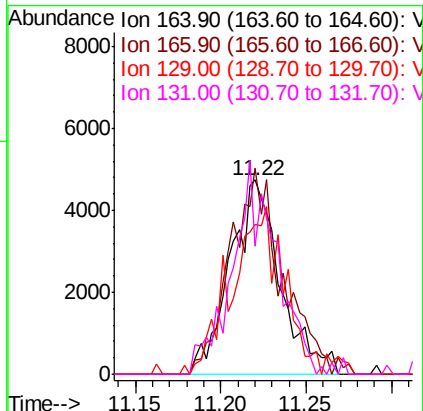
131 65.7 81.8 122.6#

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/15/2022

Supervised By :Mahesh Dadoda 04/18/2022



#53

Toluene

Concen: 46.520 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. 0.01 min

Lab File: VL038931.D

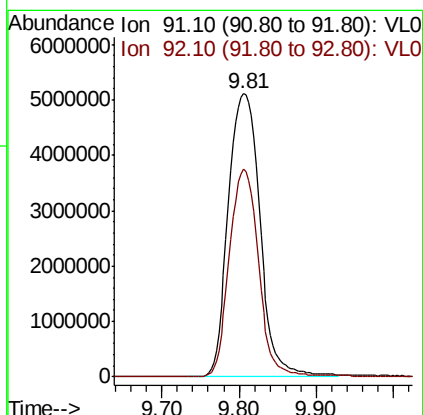
Acq: 15 Apr 2022 00:06

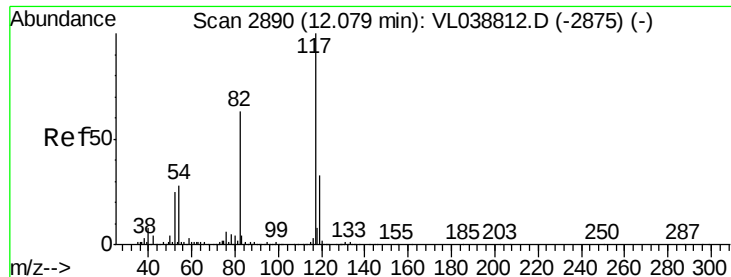
Tgt Ion: 91 Resp:14590705

Ion Ratio Lower Upper

91 100

92 68.0 49.2 73.8





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08

Delta R.T. MSVOA_L

Lab File: ClientSampled :

Acq: 15 Apr 2022 00:00

Tot Ion:1

Ion Rati

117 100

82 66.

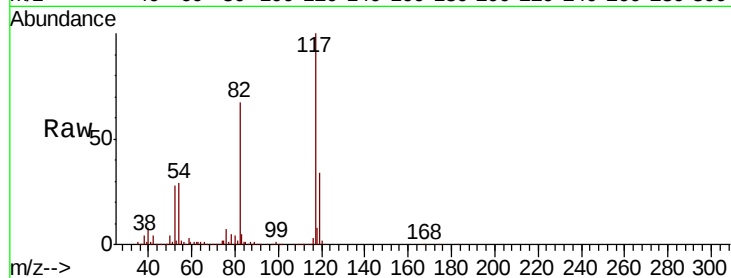
119 34.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/15/2022

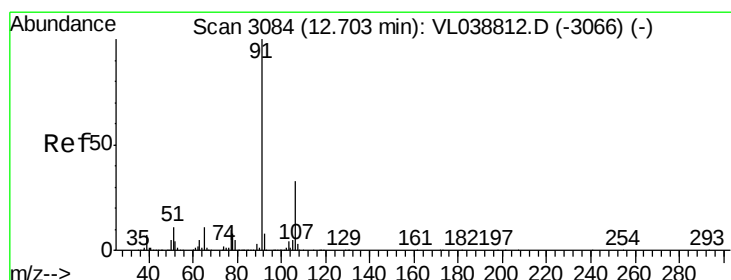
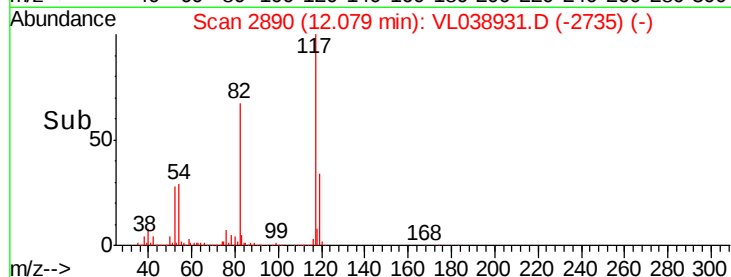
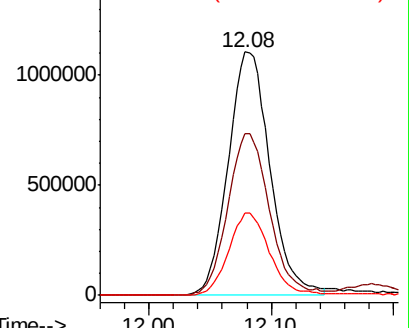
Supervised By :Mahesh Dadoda 04/18/2022



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#58

Ethyl Benzene

Concen: 2.058 ppbv

RT: 12.71 min Scan# 3085

Delta R.T. 0.00 min

Lab File: VL038931.D

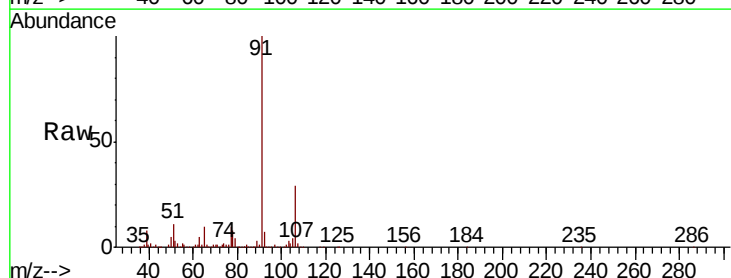
Acq: 15 Apr 2022 00:06

Tgt Ion: 91 Resp: 804818

Ion Ratio Lower Upper

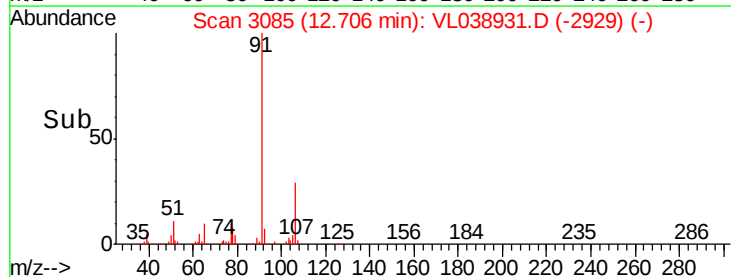
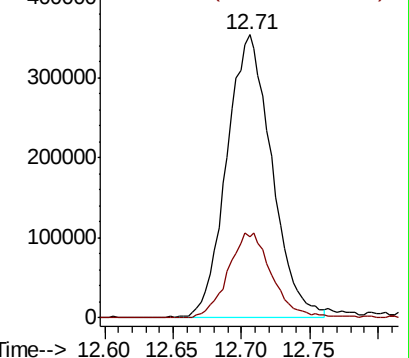
91 100

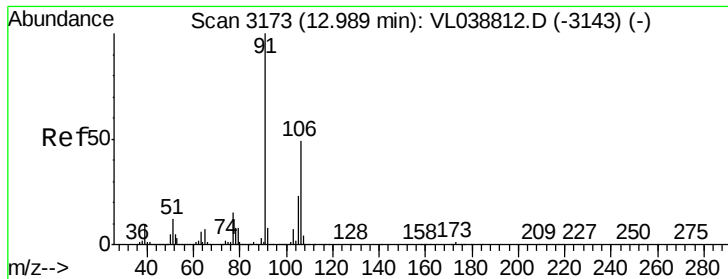
106 28.6 26.7 40.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



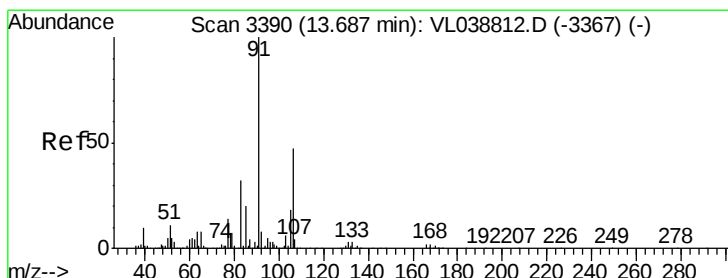
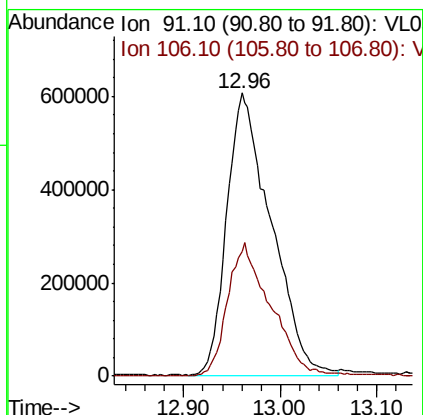
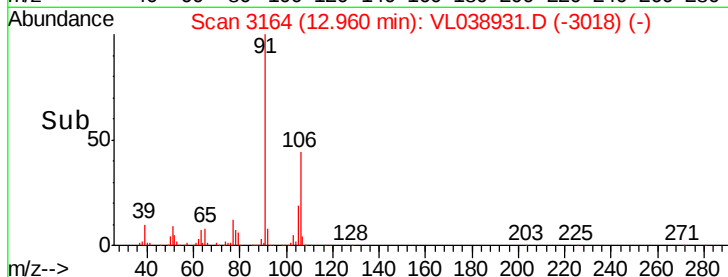
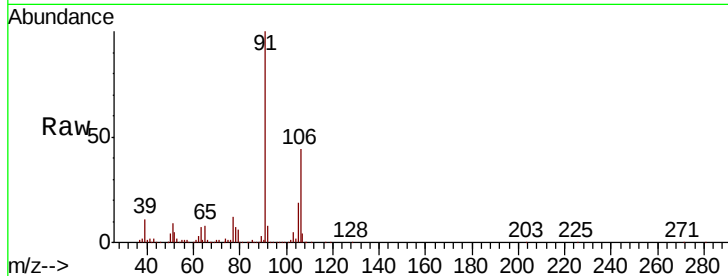


#59
m/p-Xylene
Concen: 5.872 ppbv
RT: 12.96 min
Delta R.T. MSVOA_L
Lab File: ClientSampled :
Acq: 15 Apr 2022 00:00

Tot Ion:
Ion Ratio
91 100
106 45.

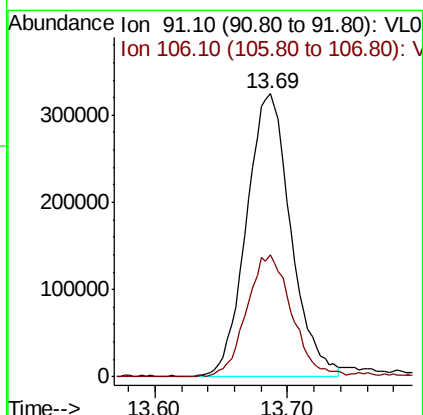
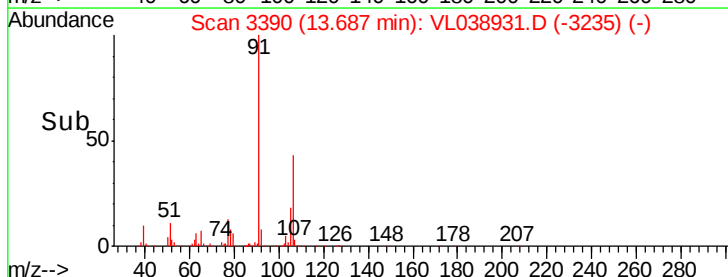
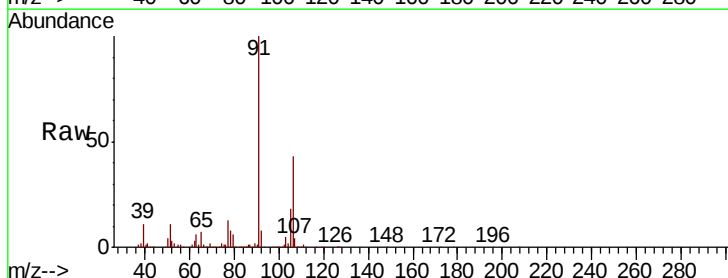
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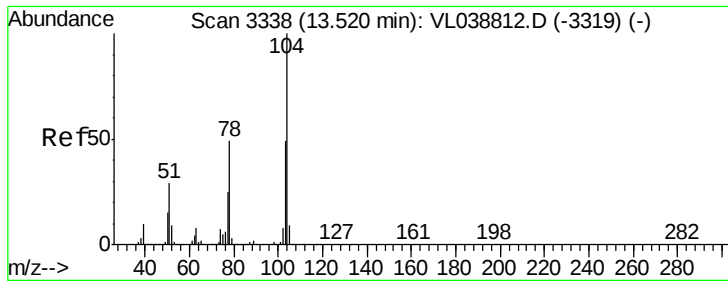
Reviewed By :Semsettin Yesilyurt 04/15/2022
Supervised By :Mahesh Dadoda 04/18/2022



#60
o-Xylene
Concen: 2.443 ppbv
RT: 13.69 min Scan# 3390
Delta R.T. -0.00 min
Lab File: VL038931.D
Acq: 15 Apr 2022 00:06

Tgt Ion: 91 Resp: 751093
Ion Ratio Lower Upper
91 100
106 45.3 23.8 71.4



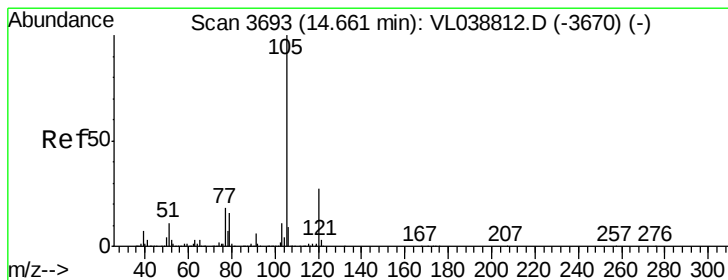
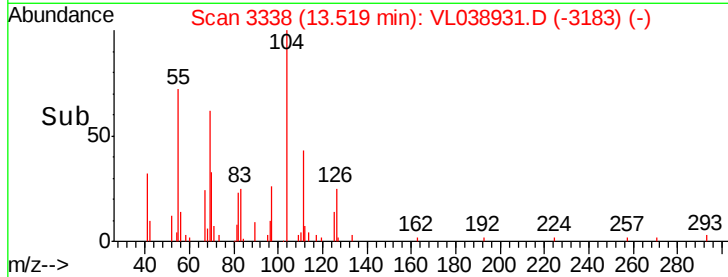
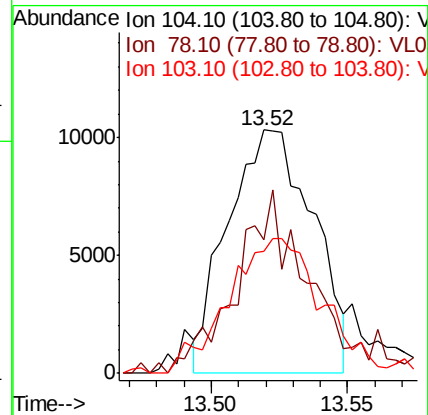
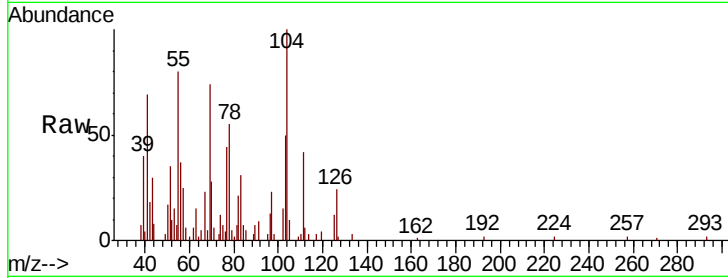


#61
Stvrene
Concen: 0.120 ppbv
RT: 13.52
Delta R.T. MSVOA_L
Lab File: ClientSampled :
1165-19-SG-5
Acq: 15 Apr 2022 00:00

Tot Ion:1
Ion Rati
104 100
78 67.
103 65.

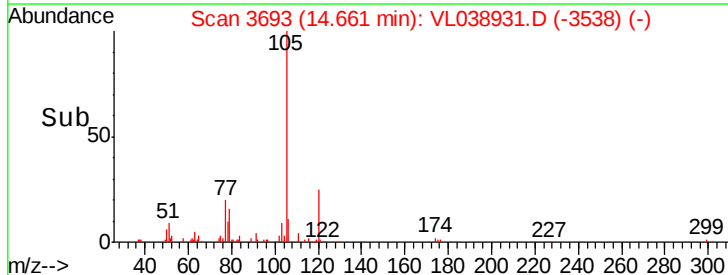
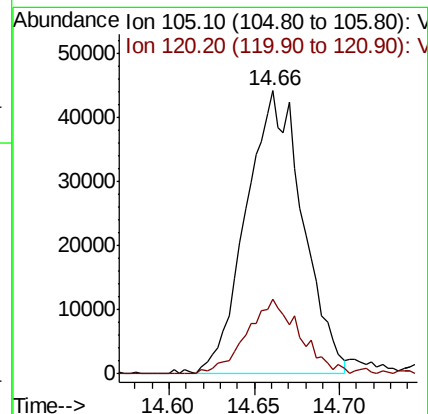
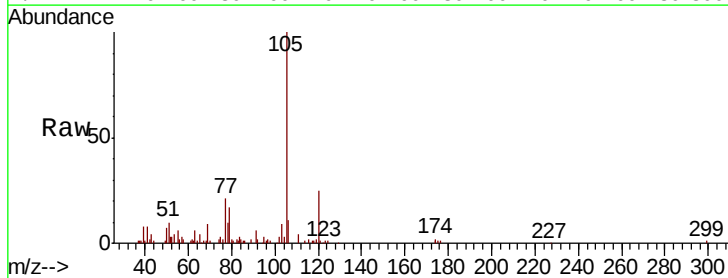
Manual Integrations
APPROVED

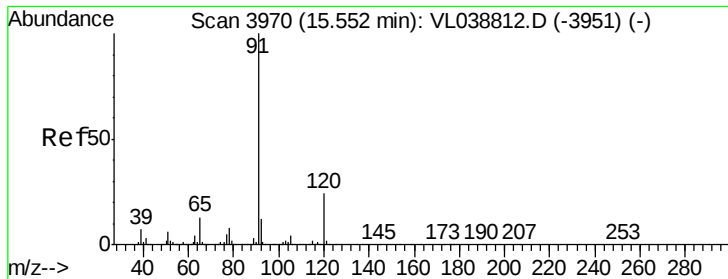
Reviewed By :Semsettin Yesilyurt 04/15/2022
Supervised By :Mahesh Dadoda 04/18/2022



#62
Isopropylbenzene
Concen: 0.222 ppbv m
RT: 14.66 min Scan# 3693
Delta R.T. -0.00 min
Lab File: VL038931.D
Acq: 15 Apr 2022 00:06

Tgt Ion:105 Resp: 102365
Ion Ratio Lower Upper
105 100
120 25.0 21.8 32.8





#64

n-propylbenzene

Concen: 0.733 ppbv m

RT: 15.55

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 15 Apr 2022 00:00

Tot Ion:1

Ion Rati

120 100

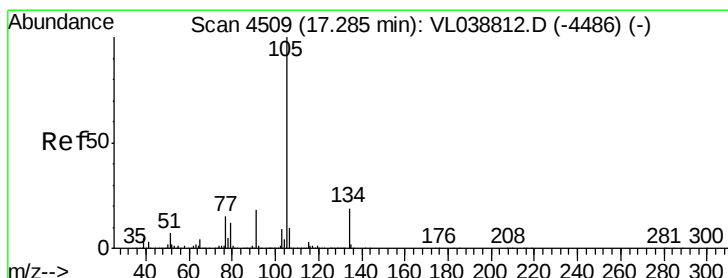
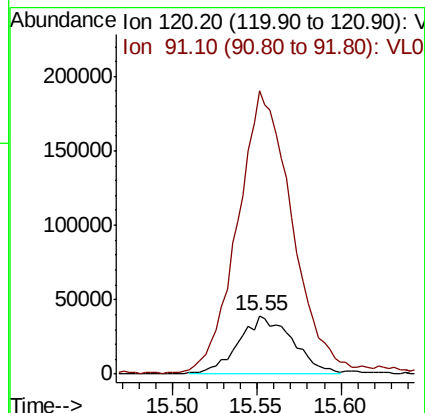
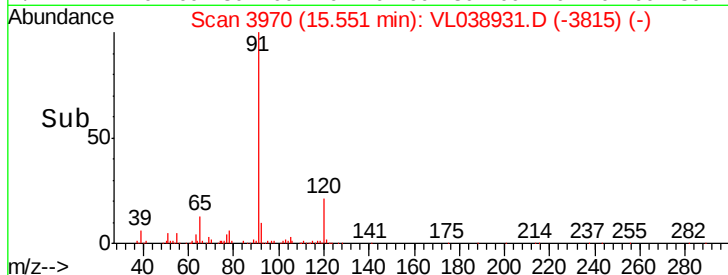
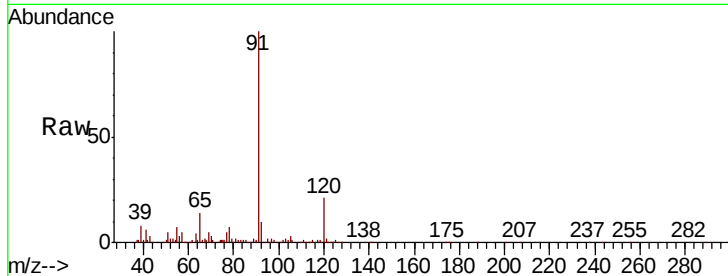
91 502.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/15/2022

Supervised By :Mahesh Dadoda 04/18/2022



#67

sec-Butylbenzene

Concen: 0.187 ppbv

RT: 17.28 min Scan# 4509

Delta R.T. -0.00 min

Lab File: VL038931.D

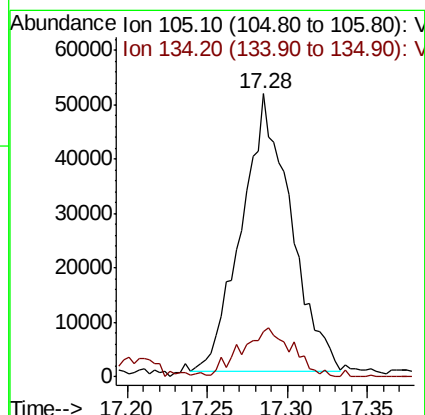
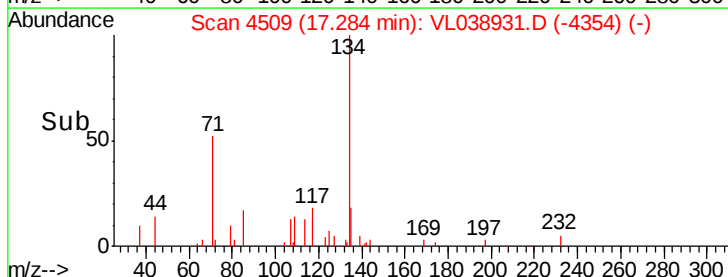
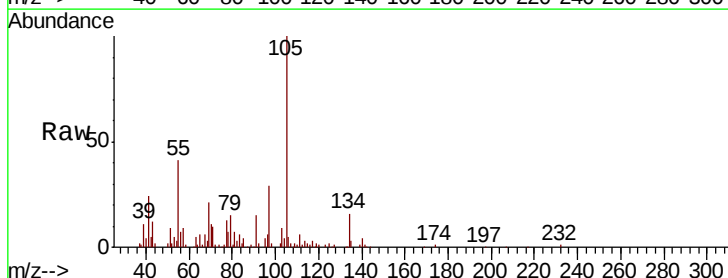
Acq: 15 Apr 2022 00:06

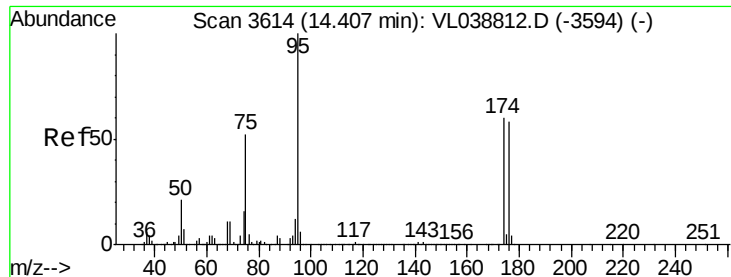
Tgt Ion:105 Resp: 107414

Ion Ratio Lower Upper

105 100

134 18.7 15.1 22.7



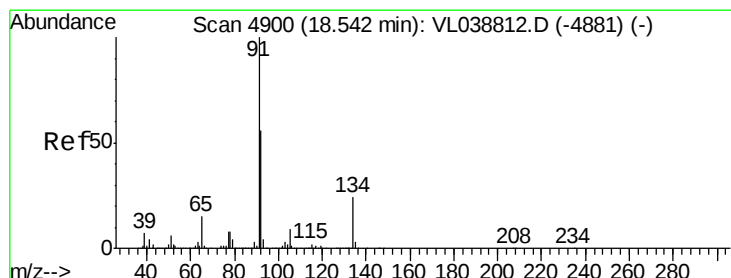
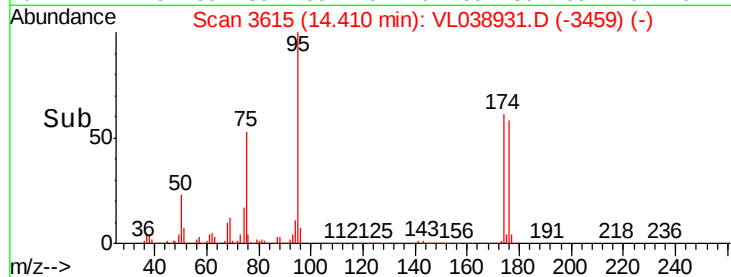
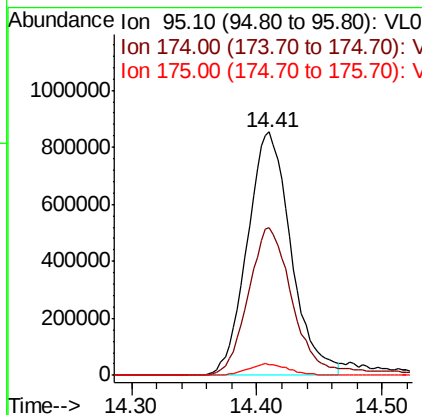
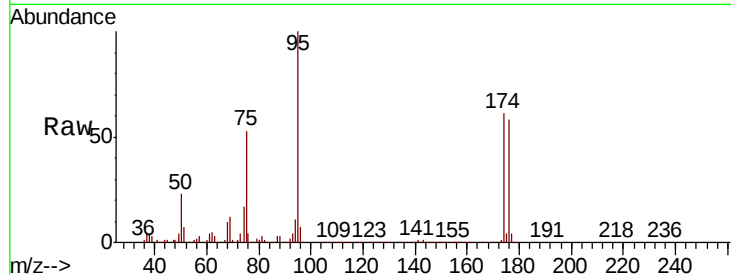


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.430 ppbv
 RT: 14.41 min
 Delta R.T.: 0.00 min
 Lab File: VL038812.D
 Acq: 15 Apr 2022 00:00

Tot Ion:
 Ion Ratio
 95 100
 174 64.1
 175 4.1

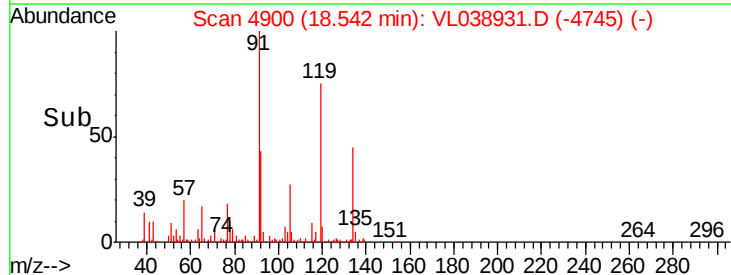
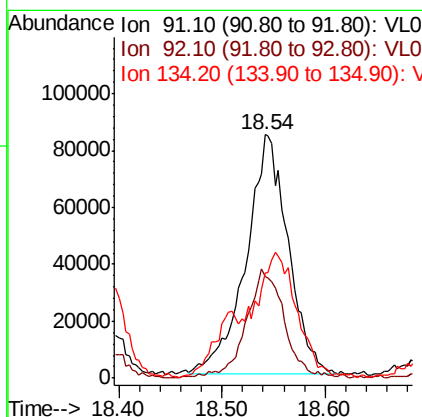
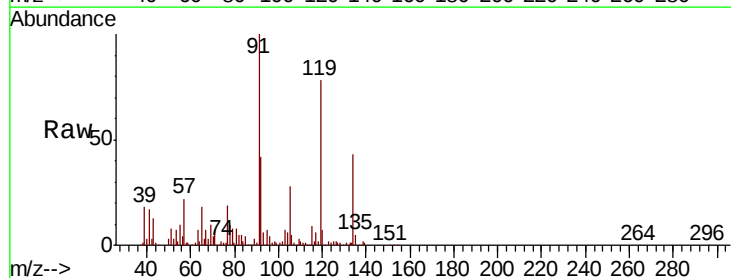
Manual Integrations
 APPROVED

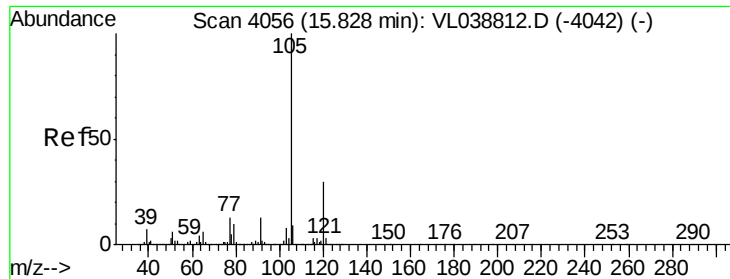
Reviewed By :Semsettin Yesilyurt 04/15/2022
 Supervised By :Mahesh Dadoda 04/18/2022



#70
 n-Butylbenzene
 Concen: 0.501 ppbv
 RT: 18.54 min Scan# 4900
 Delta R.T.: -0.00 min
 Lab File: VL038931.D
 Acq: 15 Apr 2022 00:06

Tgt Ion: 91 Resp: 238151
 Ion Ratio Lower Upper
 91 100
 92 41.2 44.6 66.8#
 134 68.1 19.2 28.8#





#72

4-Ethyltoluene

Concen: 1.170 ppbv

RT: 15.83

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

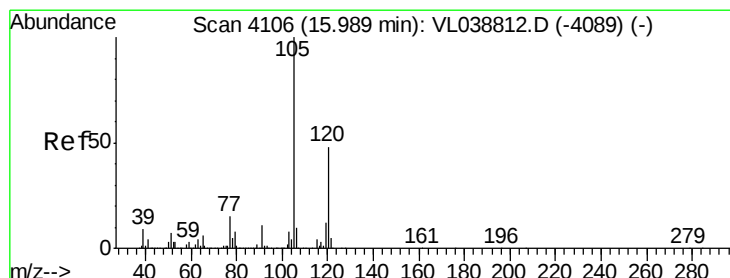
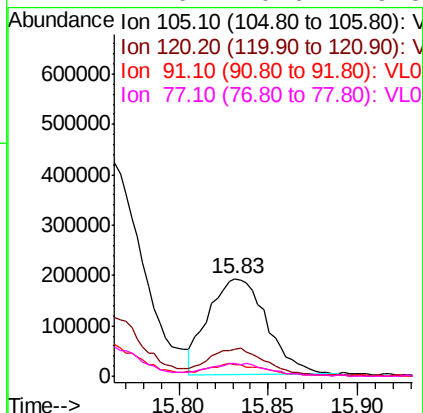
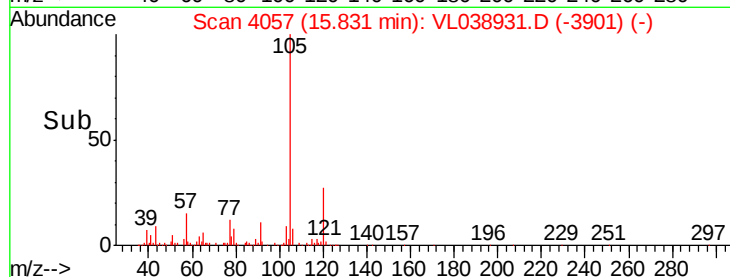
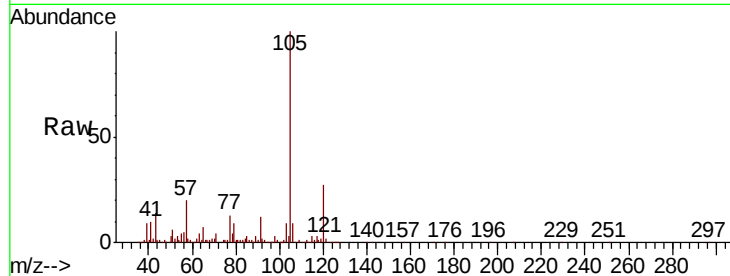
Acq: 15 Apr 2022 00:00

Manual Integrations

APPROVED

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

Tot Ion	Ion	Ratio
105	100	
120	30.	
91	12.	
77	14.6	10.6 15.8



#73

1,3,5-Trimethylbenzene

Concen: 1.151 ppbv

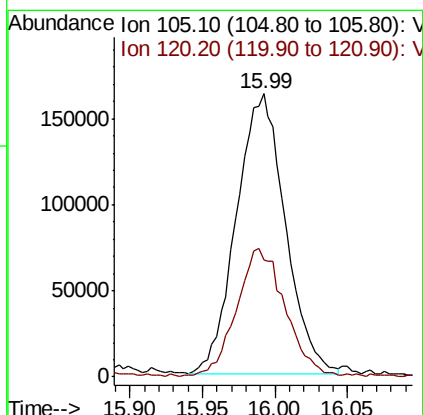
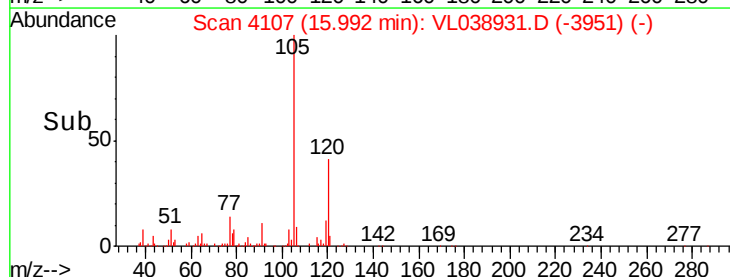
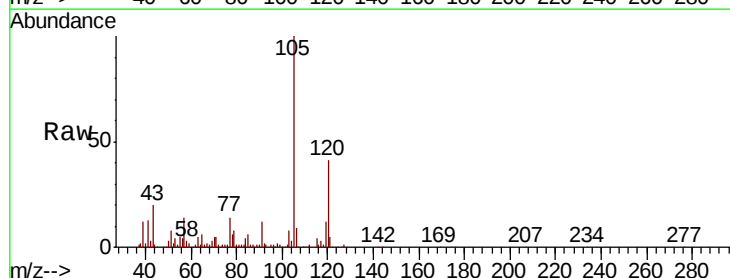
RT: 15.99 min Scan# 4107

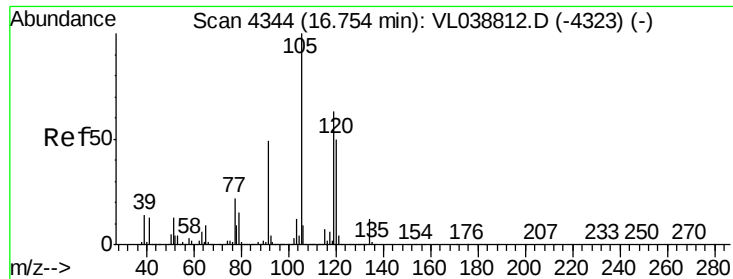
Delta R.T. 0.00 min

Lab File: VL038931.D

Acq: 15 Apr 2022 00:06

Tgt Ion	Ion	Ratio	Lower	Upper
105	100			
120	41.1	38.7	58.1	



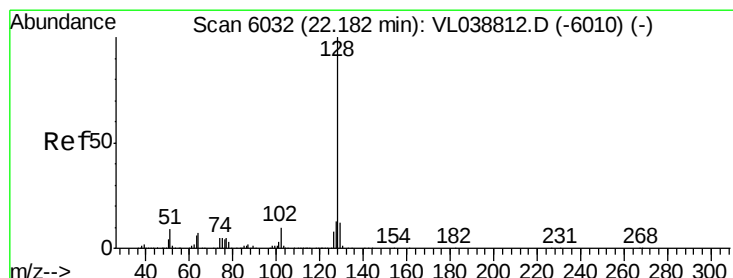
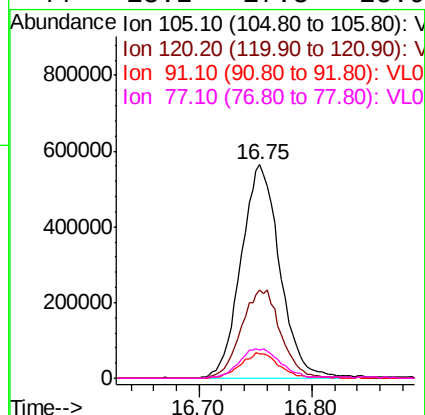
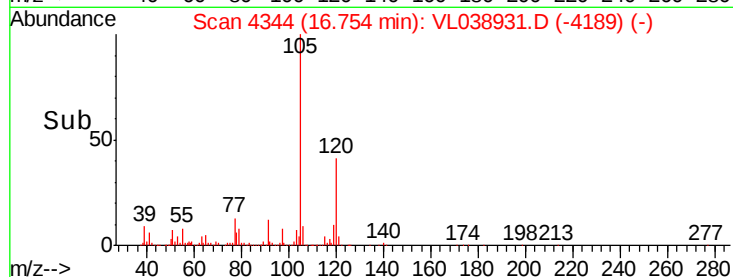
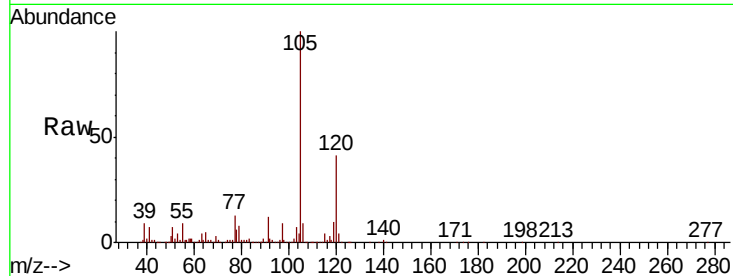


#74
1,2,4-Trimethylbenzene
Concen: 3.835 ppbv
RT: 16.75
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 15 Apr 2022 00:00

Manual Integrations
APPROVED

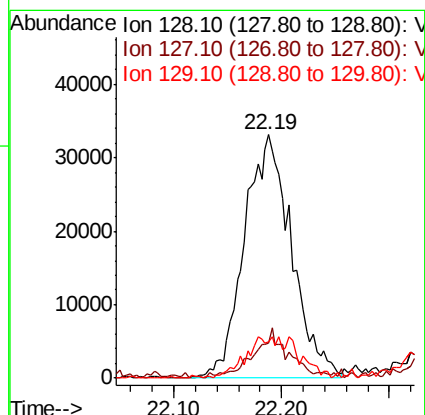
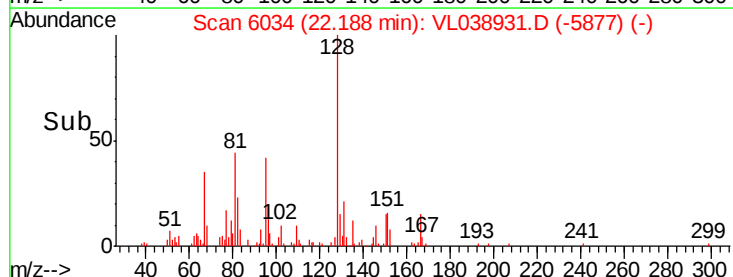
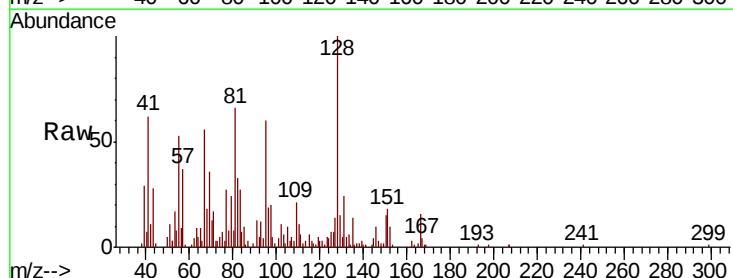
Reviewed By :Semsettin Yesilyurt 04/15/2022
Supervised By :Mahesh Dadoda 04/18/2022

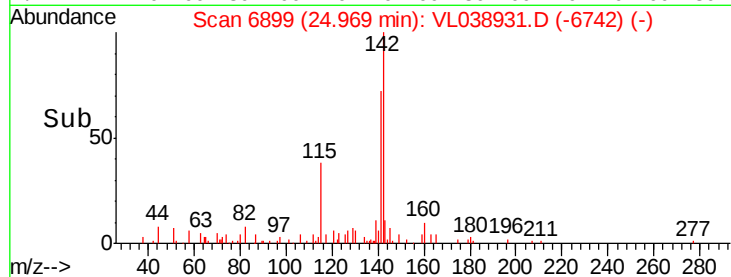
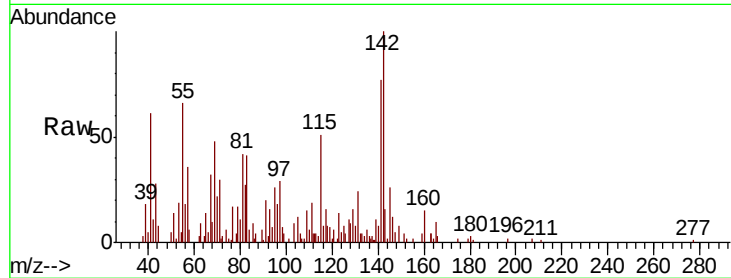
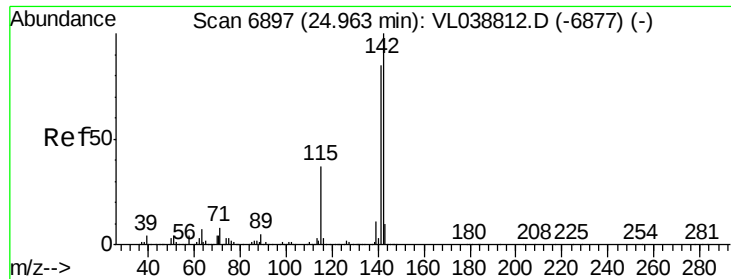
Tot Ion:1
Ion Ratio
105 100
120 41.
91 11.
77 13.2 17.3 25.9#



#79
Naphthalene
Concen: 0.385 ppbv m
RT: 22.19 min Scan# 6034
Delta R.T. 0.01 min
Lab File: VL038931.D
Acq: 15 Apr 2022 00:06

Tgt Ion:128 Resp: 100519
Ion Ratio Lower Upper
128 100
127 14.3 10.6 15.8
129 15.2 9.4 14.0#





#80

Naphthalene, 2-methyl-

Concen: 0.479 ppbv

RT: 24.97

Delta R.T: MSVOA_L

Lab File: ClientSampleId :

Acq: 15 Apr 2022 00:00

Tot Ion:1

Ion Rati

142 100

141 99.

115 132.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/15/2022

Supervised By :Mahesh Dadoda 04/18/2022

