

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051322\
 Data File : VL039053.D
 Acq On : 14 May 2022 1:54
 Operator : SY/AP
 Sample : N2828-06
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/16/2022
 Supervised By :Mahesh Dadoda 05/17/2022

Quant Time: May 14 03:58:59 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Thu May 05 10:12:15 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	880885	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.16	114	2097451	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	1694469	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.39 95 1355608 10.10 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.00%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.05	85	44646	0.323	ppbv	91
3) Chlorodifluoromethane	2.99	51	50029	0.458	ppbv	96
4) Chloromethane	3.13	50	28743	0.525	ppbv	94
9) Propene	3.01	41	165403	3.465	ppbv	87
10) Heptane	8.10	43	82133	0.701	ppbv	90
11) Trichlorofluoromethane	3.94	101	29071	0.245	ppbv	97
13) Ethanol	3.59	45	467421	138.368	ppbv	94
15) Acetone	3.85	43	343838m	4.138	ppbv	
19) Isopropyl Alcohol	3.96	45	68301	1.729	ppbv #	84
20) Methylene Chloride	4.34	84	702041	22.417	ppbv	96
26) Hexane	5.67	57	926065	10.480	ppbv #	39
30) Cyclohexane	7.12	84	43364	0.586	ppbv	94
34) 2-Butanone	5.23	43	35374m	0.331	ppbv	
35) Carbon Tetrachloride	7.01	117	9127m	0.066	ppbv	
36) Benzene	6.87	78	313079	1.744	ppbv	98
41) Tetrahydrofuran	6.04	42	11324m	0.157	ppbv	
44) 2,2,4-Trimethylpentane	7.85	57	384757	1.222	ppbv #	89
52) Tetrachloroethene	11.20	164	50312	0.784	ppbv	96
53) Toluene	9.79	91	748792	3.722	ppbv	100
58) Ethyl Benzene	12.69	91	93743	0.384	ppbv	95
59) m/p-Xylene	12.94	91	323412m	1.554	ppbv	
60) o-Xylene	13.67	91	120592	0.615	ppbv	95
70) n-Butylbenzene	18.54	91	34533m	0.112	ppbv	
72) 4-Ethyltoluene	15.81	105	49802	0.223	ppbv #	90
73) 1,3,5-Trimethylbenzene	15.97	105	52351m	0.260	ppbv	
74) 1,2,4-Trimethylbenzene	16.74	105	210490	0.956	ppbv #	66
79) Naphthalene	22.17	128	24521m	0.137	ppbv	

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

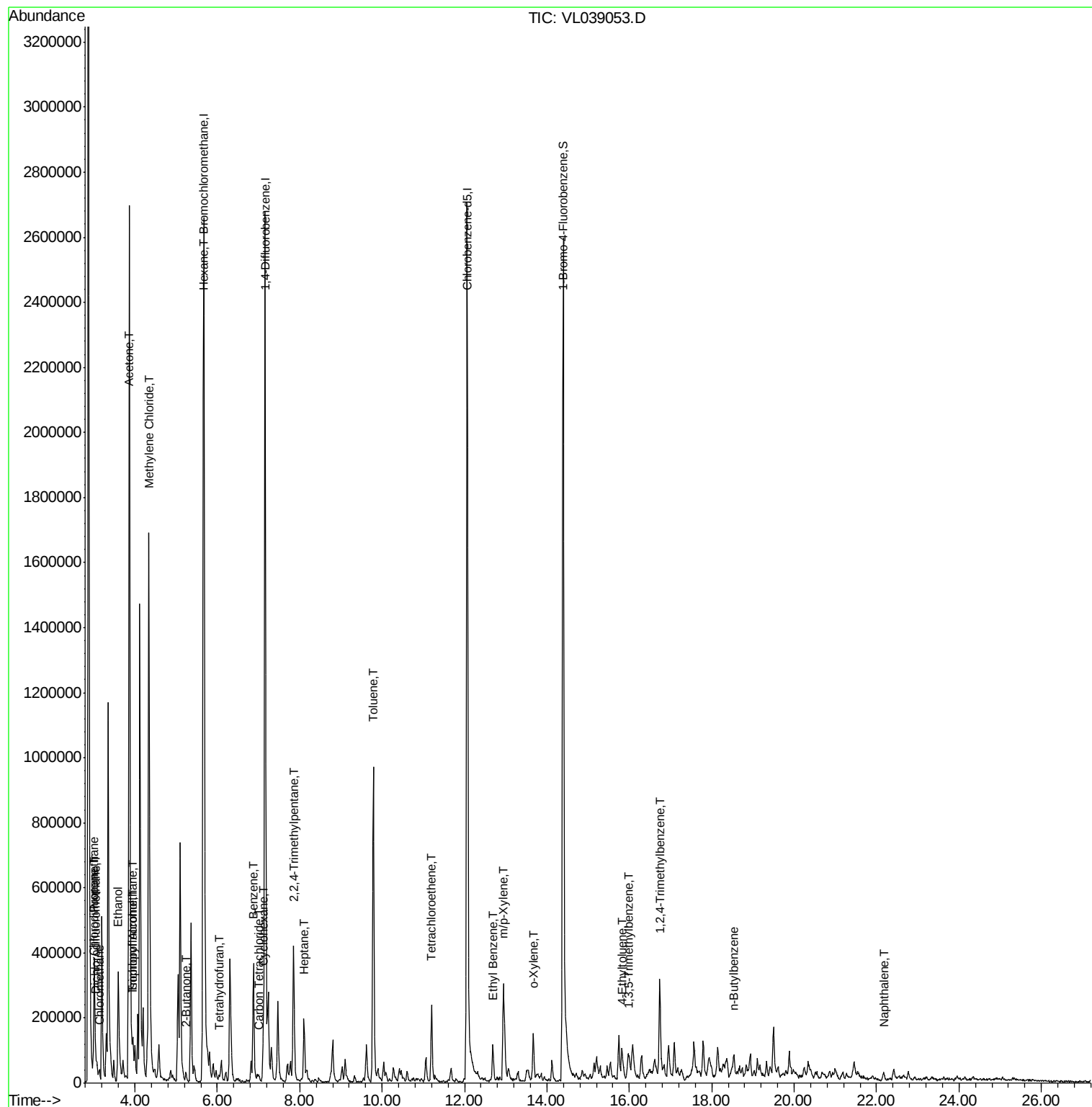
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL051322\
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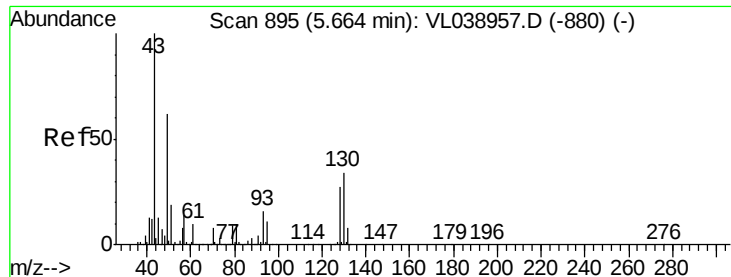
Instrument :
MSVOA_L
ClientSampleId :
OA1

Quant Time: May 14 03:58:59 2022
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL050522
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Thu May 05 10:12:15 2022
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Reviewed By :Semsettin Yesilyurt 05/16/2022
Supervised By :Mahesh Dadoda 05/17/2022





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: OA1

Acq: 14 May 2022 1:54

Tot Ion:

Ion Ratio

49 100

128 45.

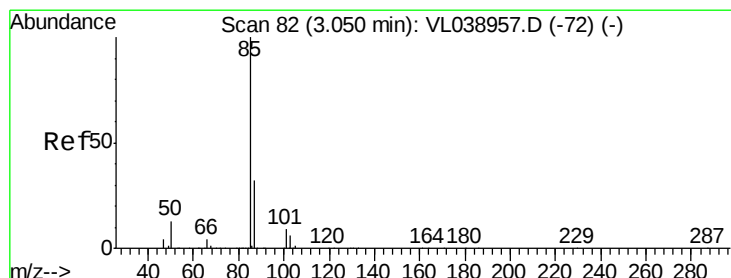
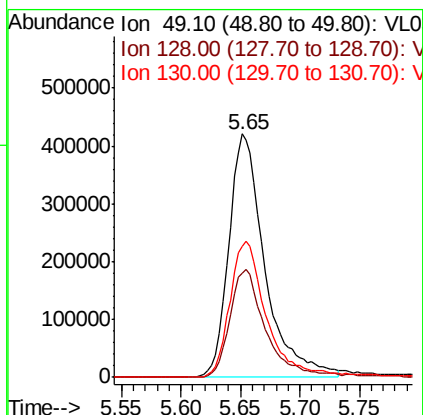
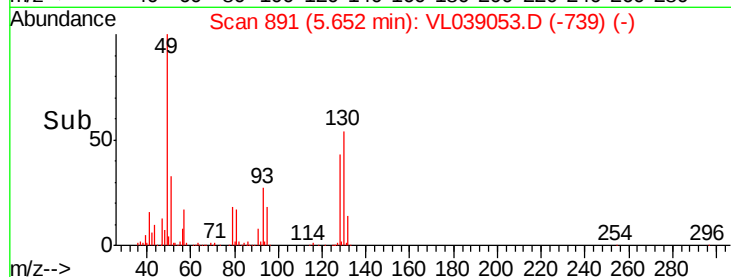
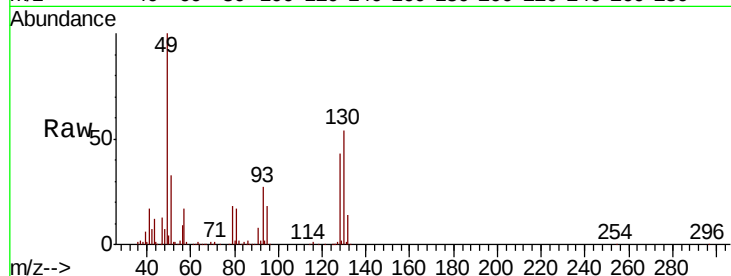
130 58.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/16/2022

Supervised By :Mahesh Dadoda 05/17/2022



#2

Dichlorodifluoromethane

Concen: 0.323 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL039053.D

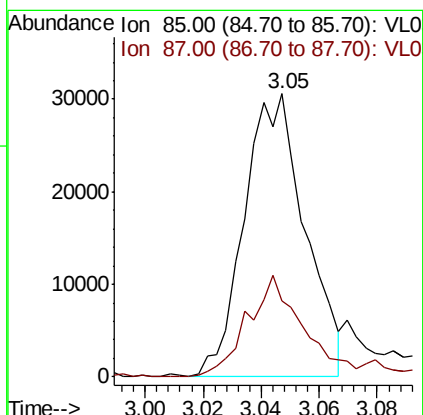
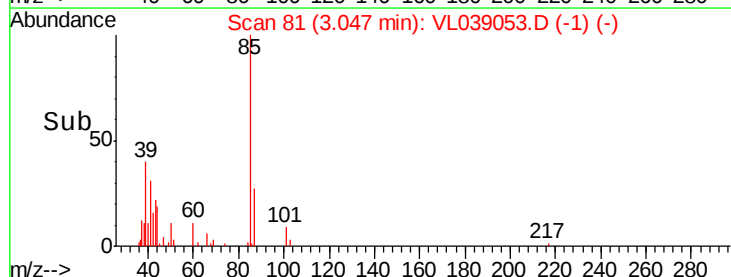
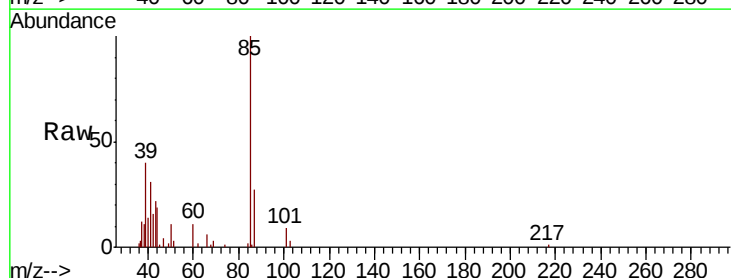
Acq: 14 May 2022 1:54

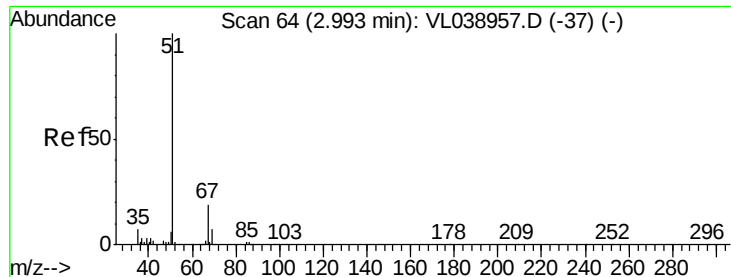
Tgt Ion: 85 Resp: 44646

Ion Ratio Lower Upper

85 100

87 27.0 25.7 38.5



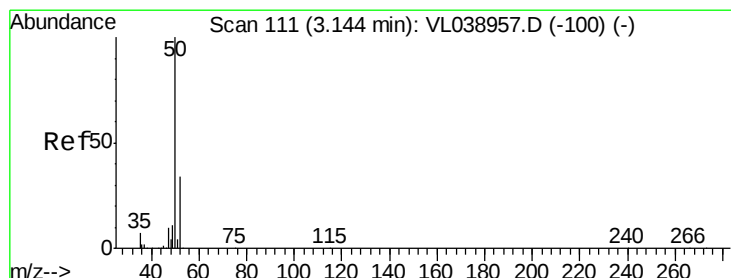
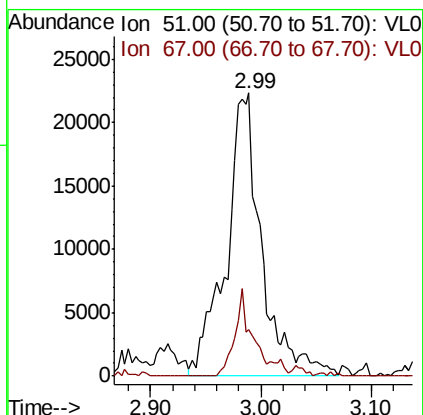
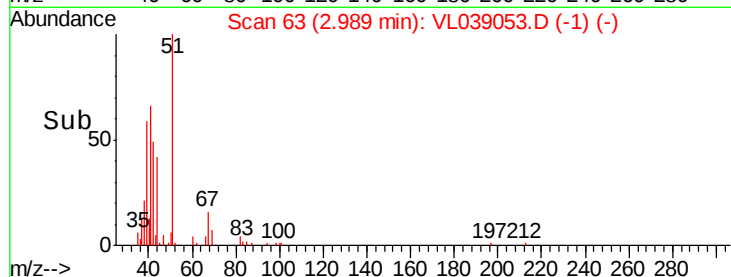
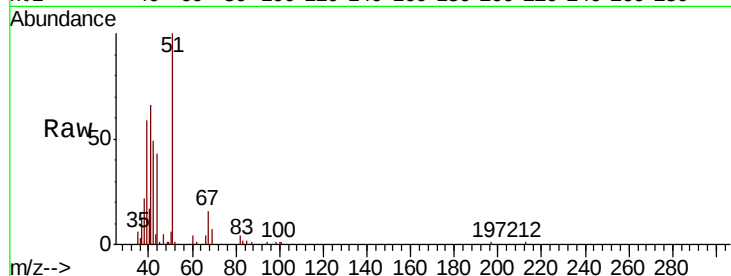


#3
Chlorodifluoromethane
Concen: 0.458 ppbv
RT: 2.99
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 May 2022 1:54

Tot Ion:
Ion Ratio
51 100
67 17.

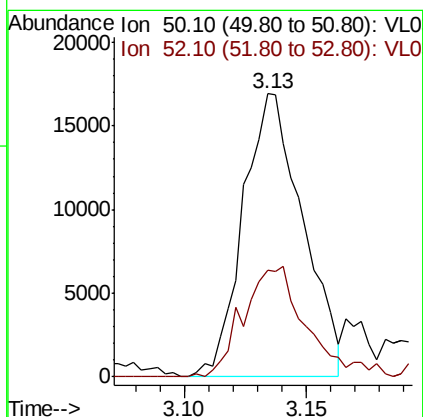
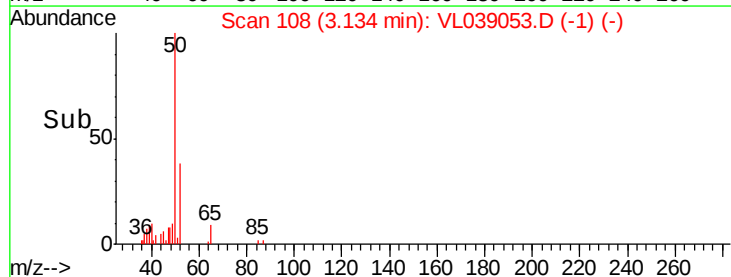
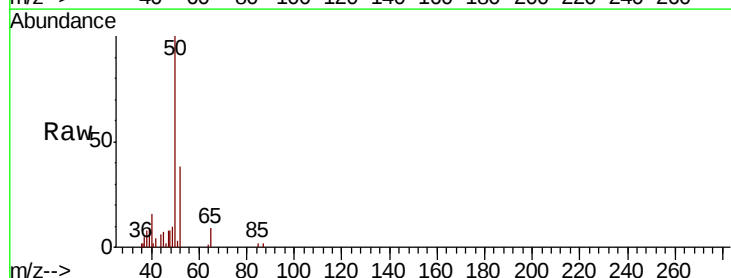
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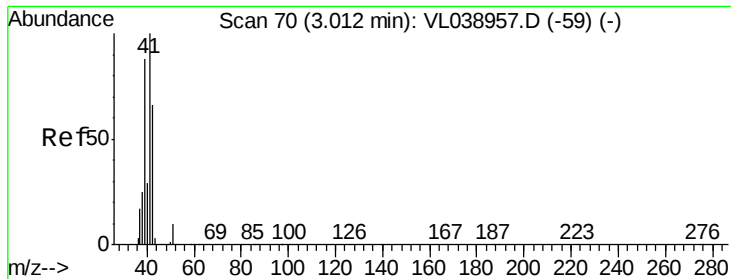
Reviewed By :Semsettin Yesilyurt 05/16/2022
Supervised By :Mahesh Dadoda 05/17/2022



#4
Chloromethane
Concen: 0.525 ppbv
RT: 3.13 min Scan# 108
Delta R.T. -0.01 min
Lab File: VL039053.D
Acq: 14 May 2022 1:54

Tgt Ion: 50 Resp: 28743
Ion Ratio Lower Upper
50 100
52 37.7 27.3 40.9



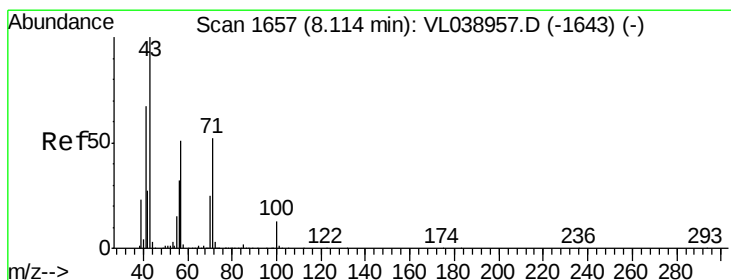
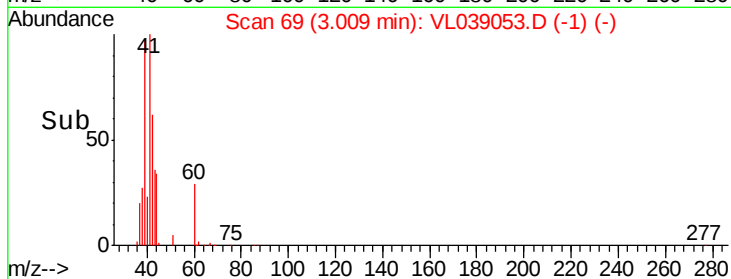
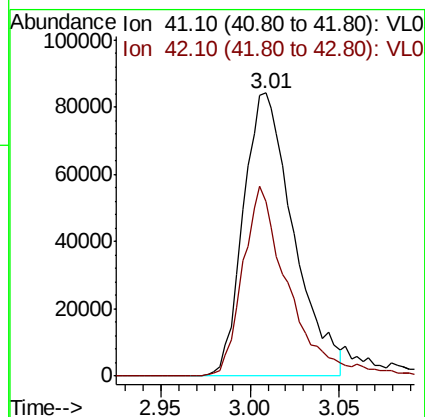
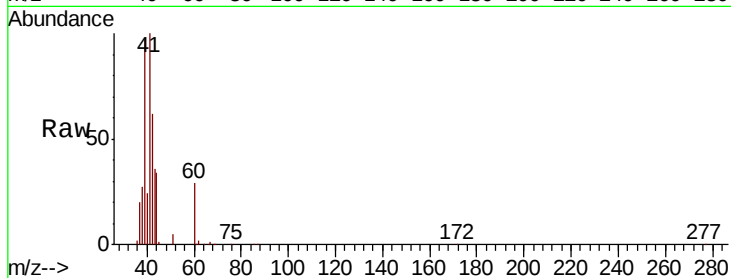


#9
 Propene
 Concen: 3.465 ppbv
 RT: 3.01
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 May 2022 1:54

Tot Ion:
 Ion Rati
 41 100
 42 62.

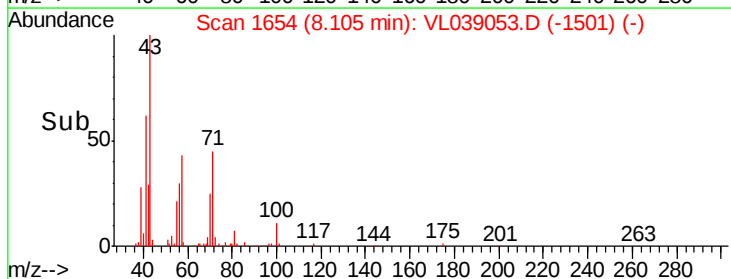
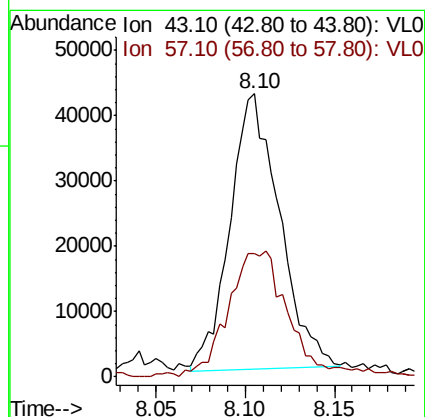
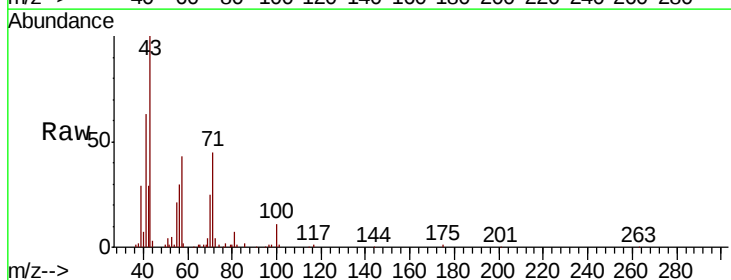
Manual Integrations
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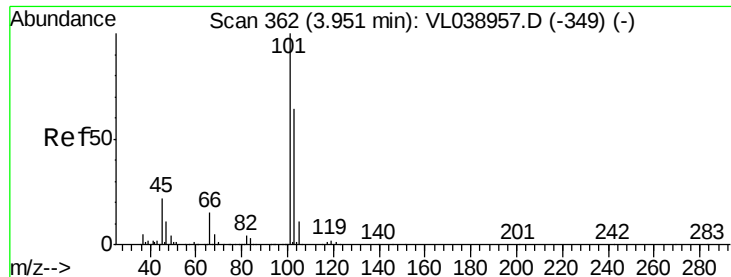
Reviewed By :Semsettin Yesilyurt 05/16/2022
 Supervised By :Mahesh Dadoda 05/17/2022



#10
 Heptane
 Concen: 0.701 ppbv
 RT: 8.10 min Scan# 1654
 Delta R.T. -0.01 min
 Lab File: VL039053.D
 Acq: 14 May 2022 1:54

Tgt Ion: 43 Resp: 82133
 Ion Ratio Lower Upper
 43 100
 57 57.6 40.5 60.7





#11

Trichlorofluoromethane

Concen: 0.245 ppbv

RT: 3.94 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 May 2022 1:54

Tot Ion:1

Ion Rati

101 100

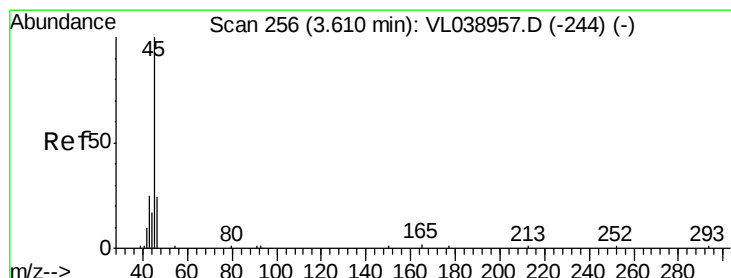
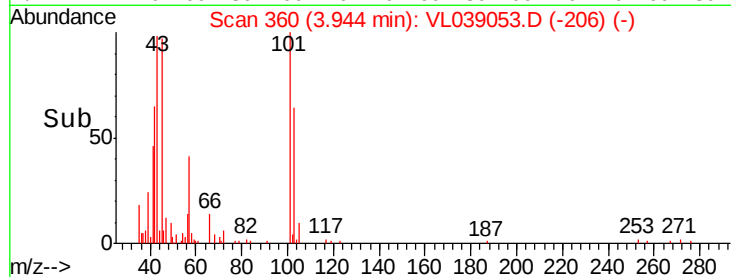
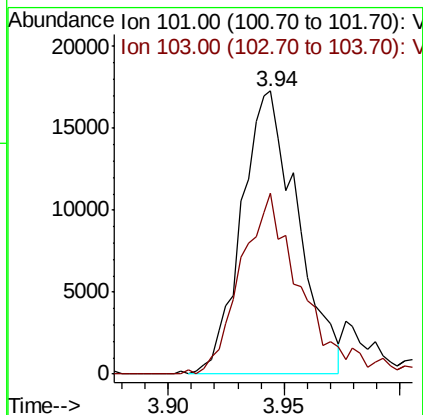
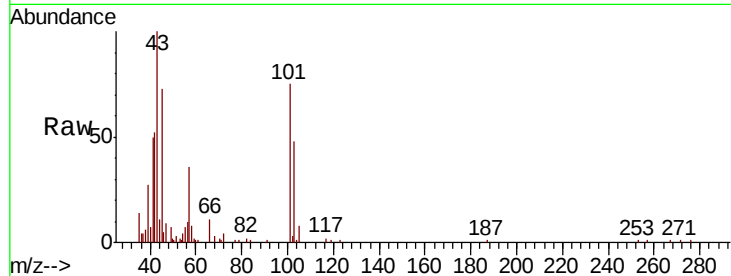
103 62.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/16/2022

Supervised By :Mahesh Dadoda 05/17/2022



#13

Ethanol

Concen: 138.368 ppbv

RT: 3.59 min Scan# 250

Delta R.T. -0.02 min

Lab File: VL039053.D

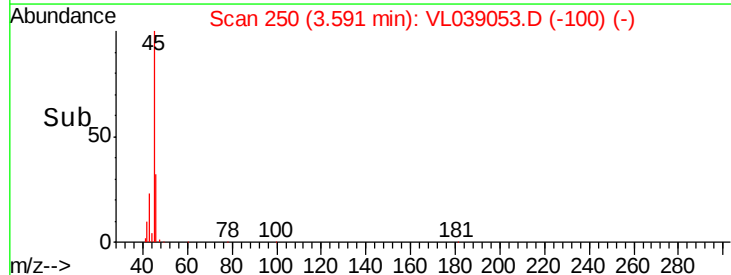
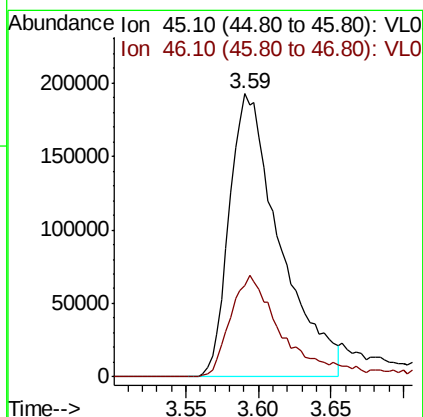
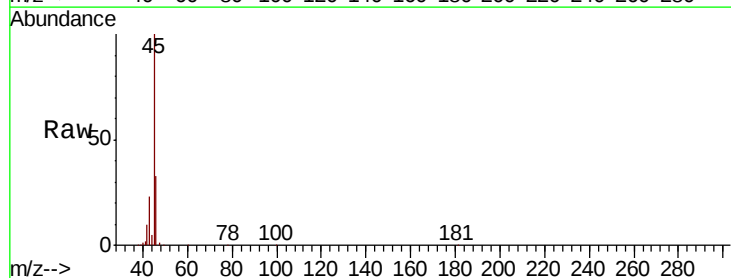
Acq: 14 May 2022 1:54

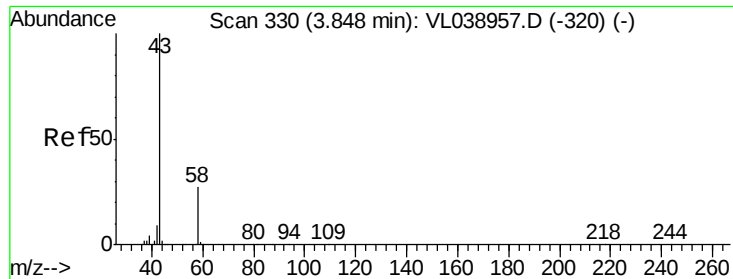
Tgt Ion: 45 Resp: 467421

Ion Ratio Lower Upper

45 100

46 40.9 18.0 72.2





#15

Acetone

Concen: 4.138 ppbv m

RT: 3.85 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 May 2022 1:54

Tot Ion:

Ion Ratio

43 100

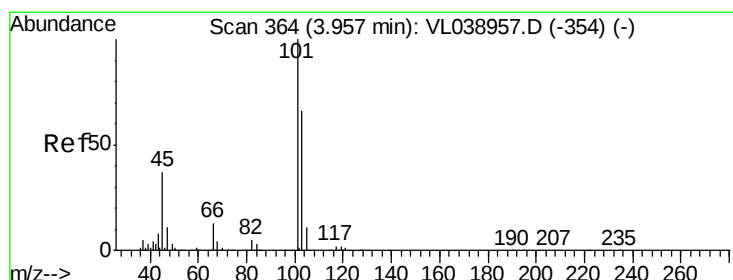
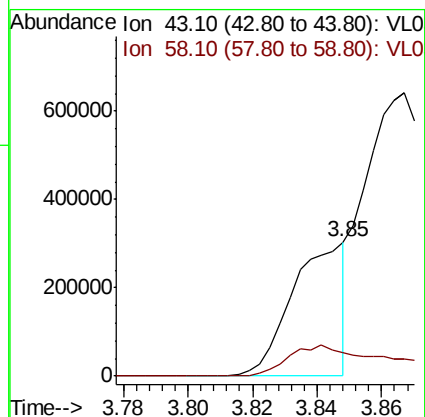
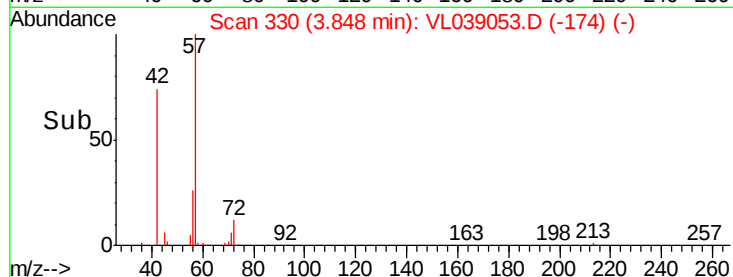
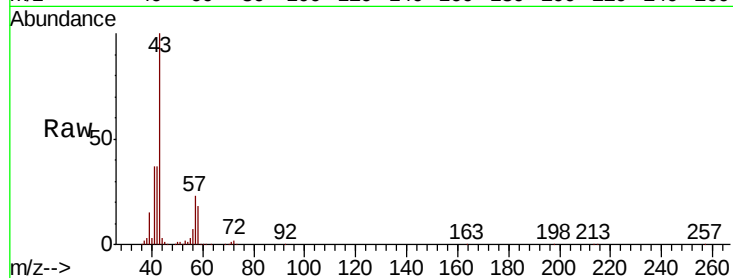
58 51.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/16/2022

Supervised By :Mahesh Dadoda 05/17/2022



#19

Isopropyl Alcohol

Concen: 1.729 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.00 min

Lab File: VL039053.D

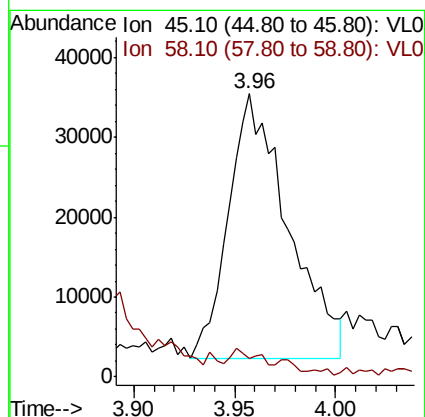
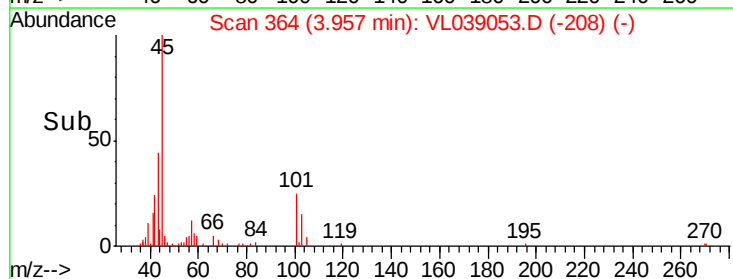
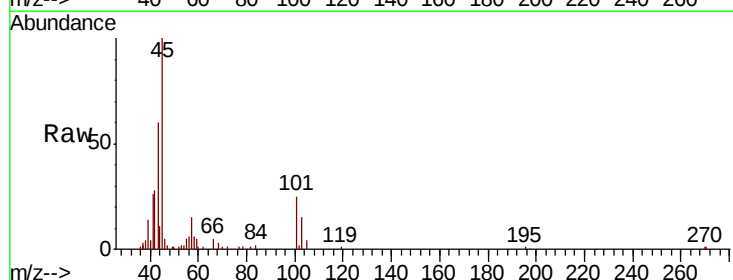
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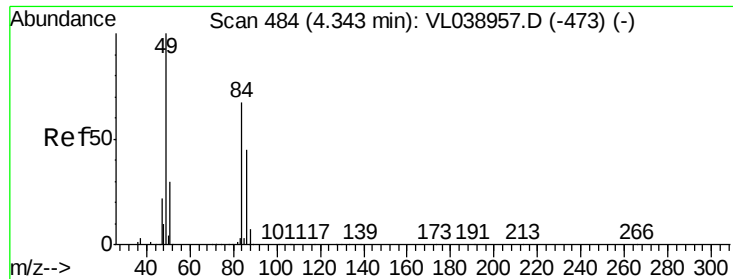
Tgt Ion: 45 Resp: 68301

Ion Ratio Lower Upper

45 100

58 7.7 1.4 2.2#



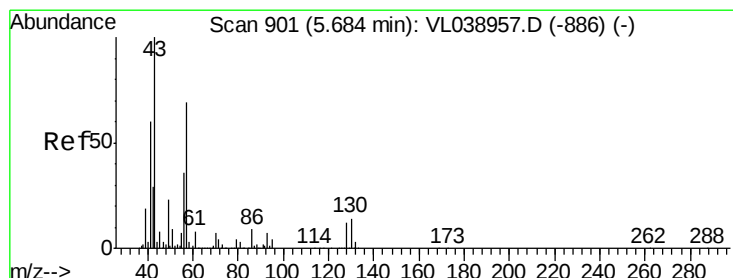
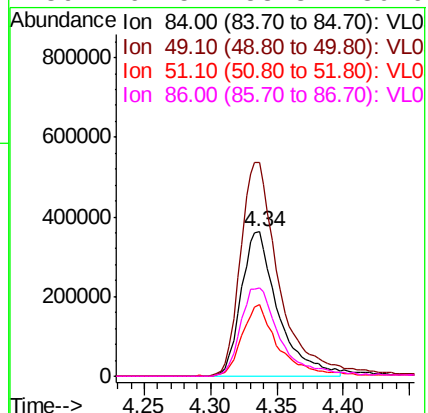
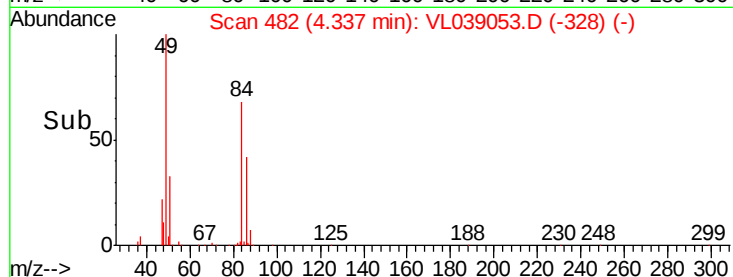
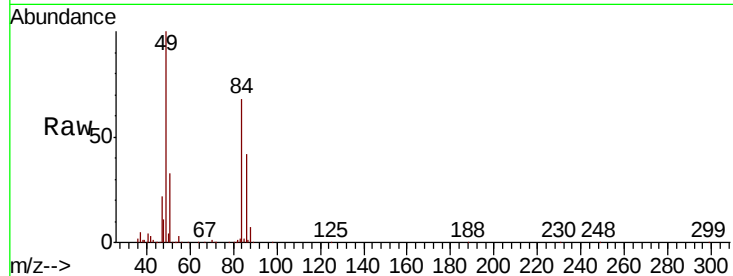


#20
Methvlene Chloride
Concen: 22.417 ppbv
RT: 4.34
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 May 2022 1:54

Tot Ion:
Ion Ratio
84 100
49 147.
51 49.
86 61.5 53.8 80.6

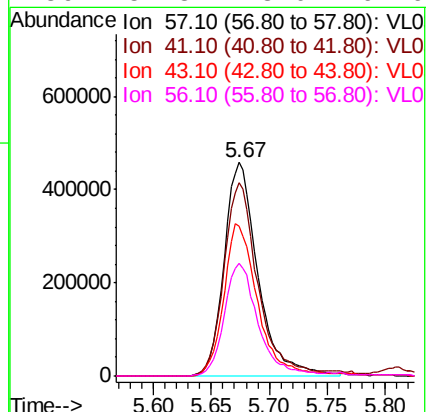
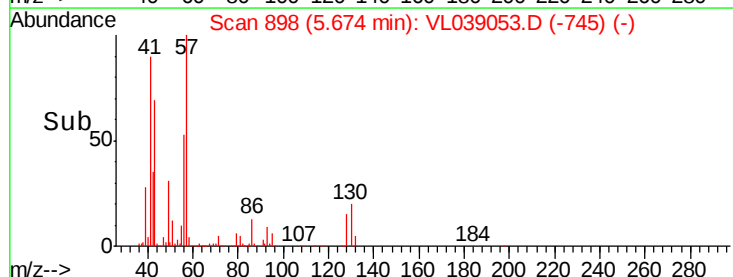
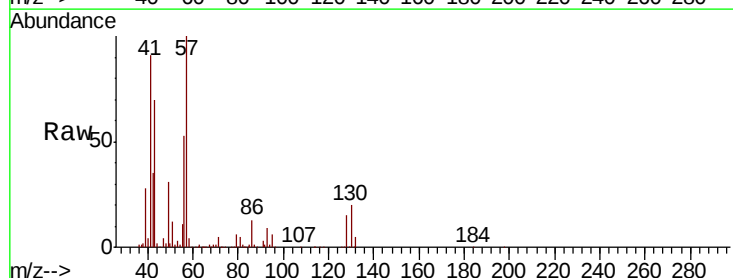
Manual Integrations
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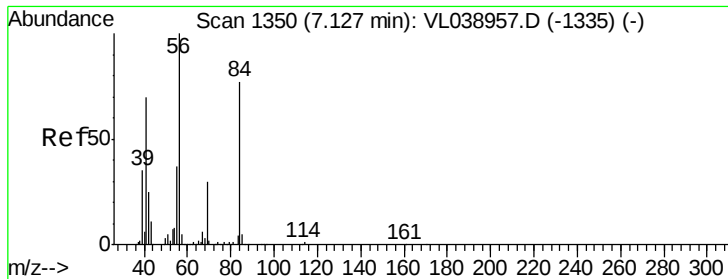
Reviewed By :Semsettin Yesilyurt 05/16/2022
Supervised By :Mahesh Dadoda 05/17/2022



#26
Hexane
Concen: 10.480 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.01 min
Lab File: VL039053.D
Acq: 14 May 2022 1:54

Tgt Ion: 57 Resp: 926065
Ion Ratio Lower Upper
57 100
41 93.5 75.2 112.8
43 72.3 190.8 286.2#
56 54.8 43.0 64.6



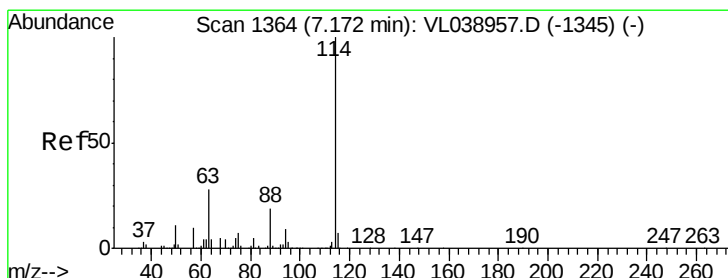
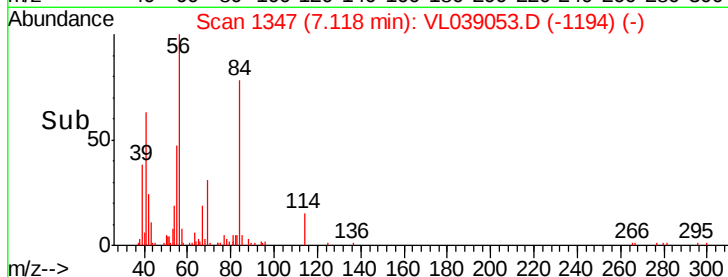
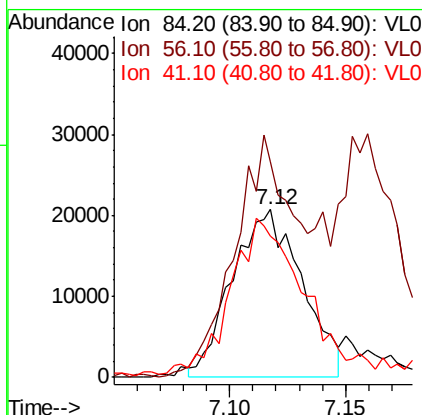
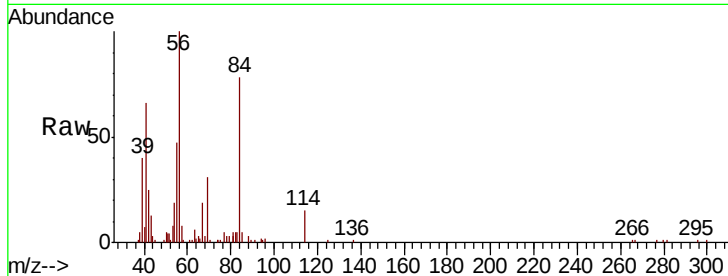


#30
Cyclohexane
Concen: 0.586 ppbv
RT: 7.12 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 14 May 2022 1:54

Tot Ion:
Ion Ratio
84 100
56 148.
41 100.

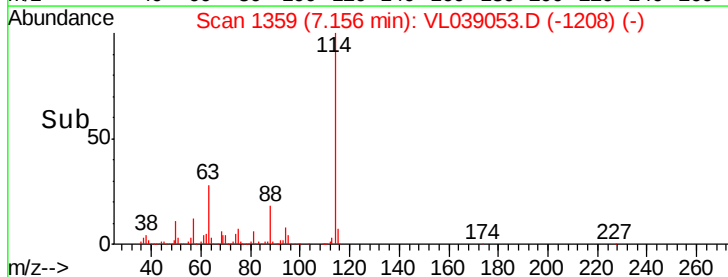
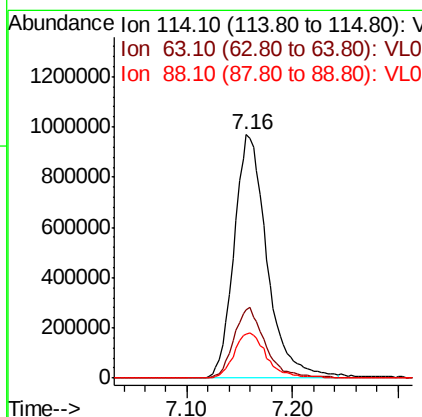
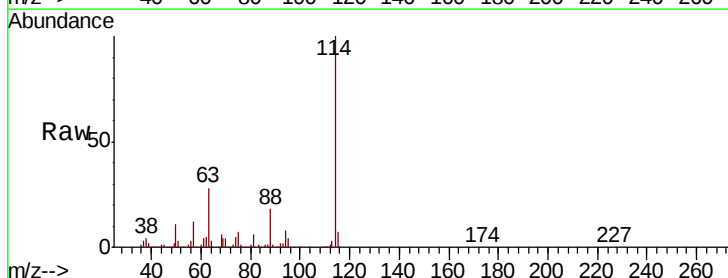
Manual Integrations
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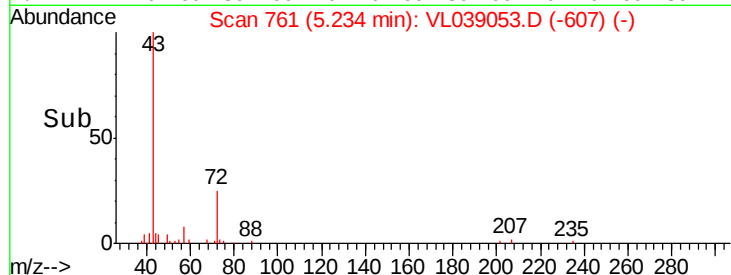
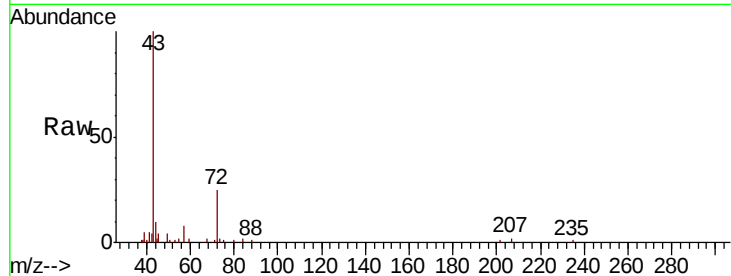
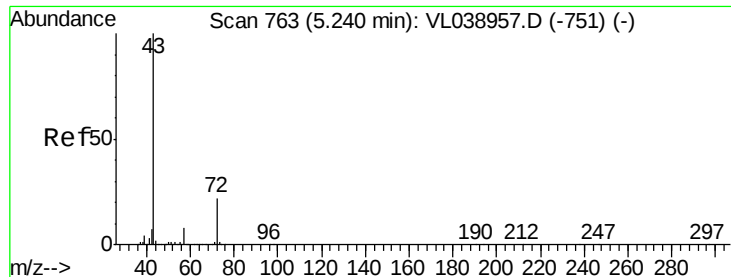
Reviewed By :Semsettin Yesilyurt 05/16/2022
Supervised By :Mahesh Dadoda 05/17/2022



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.02 min
Lab File: VL039053.D
Acq: 14 May 2022 1:54

Tgt Ion:114 Resp: 2097451
Ion Ratio Lower Upper
114 100
63 28.3 22.6 33.8
88 18.6 15.4 23.0



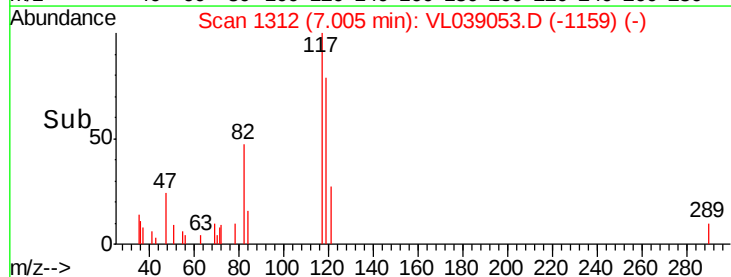
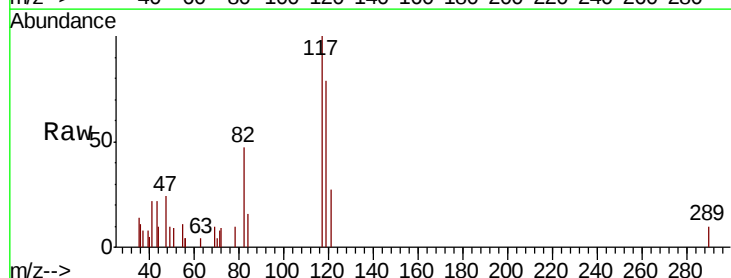
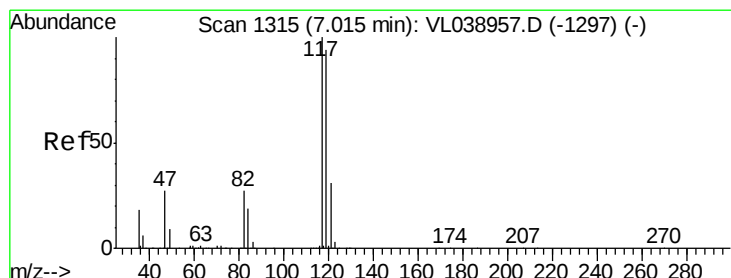
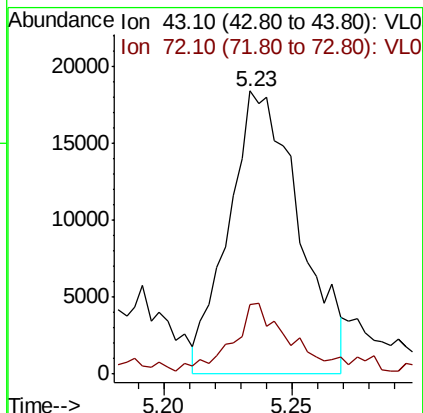


#34
2-Butanone
Concen: 0.331 ppbv m
RT: 5.23
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 May 2022 1:54

Tot Ion:
Ion Ratio
43 100
72 24.

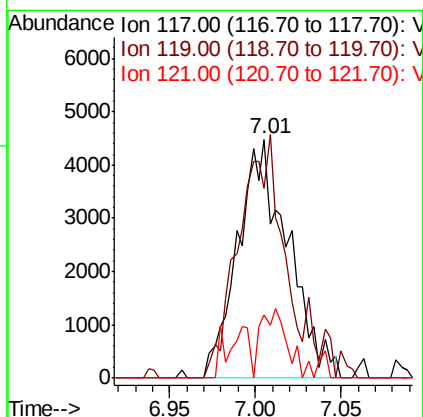
Manual Integrations
APPROVED

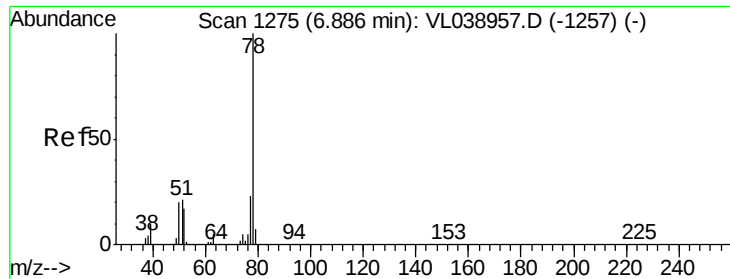
Reviewed By :Semsettin Yesilyurt 05/16/2022
Supervised By :Mahesh Dadoda 05/17/2022



#35
Carbon Tetrachloride
Concen: 0.066 ppbv m
RT: 7.01 min Scan# 1312
Delta R.T. -0.01 min
Lab File: VL039053.D
Acq: 14 May 2022 1:54

Tgt Ion:117 Resp: 9127
Ion Ratio Lower Upper
117 100
119 79.5 75.2 112.8
121 26.6 24.6 37.0



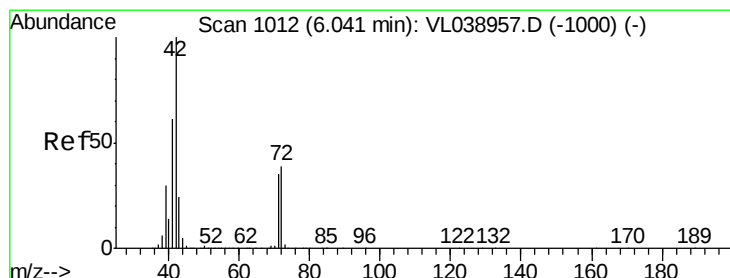
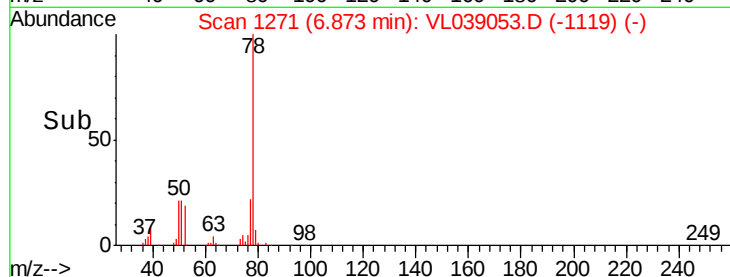
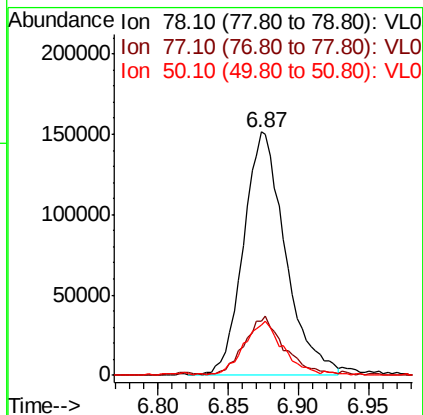
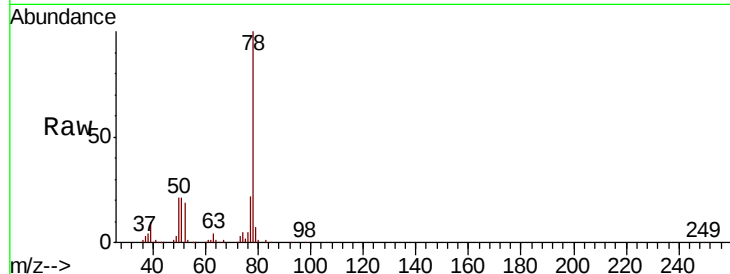


#36
Benzene
Concen: 1.744 ppbv
RT: 6.87
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 14 May 2022 1:54

Tot Ion:
Ion Ratio
78 100
77 21.
50 19.

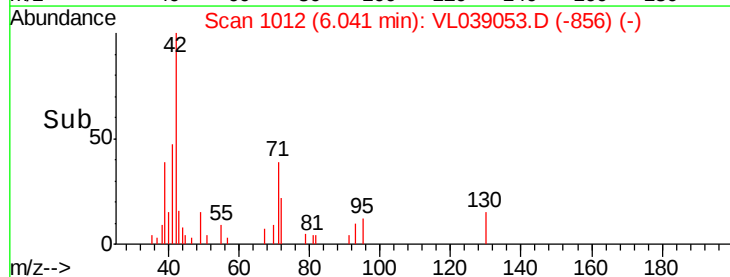
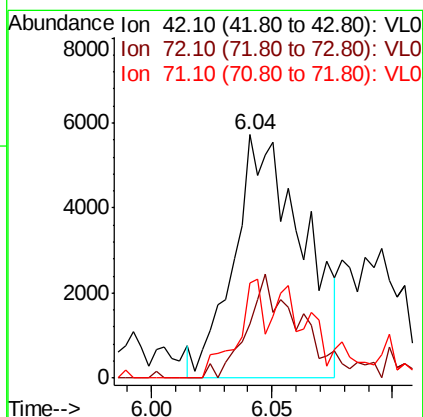
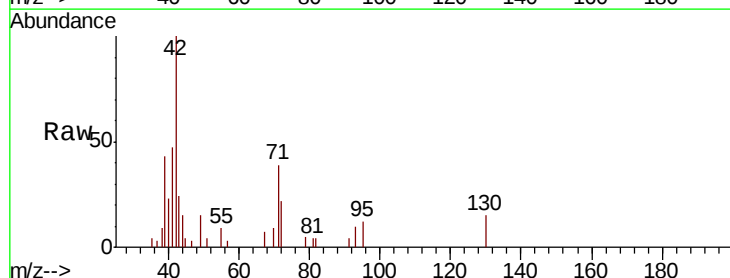
Manual Integrations
APPROVED

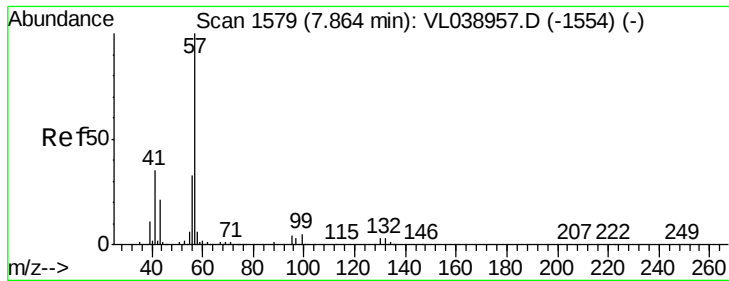
Reviewed By :Semsettin Yesilyurt 05/16/2022
Supervised By :Mahesh Dadoda 05/17/2022



#41
Tetrahydrofuran
Concen: 0.157 ppbv m
RT: 6.04 min Scan# 1012
Delta R.T.: 0.00 min
Lab File: VL039053.D
Acq: 14 May 2022 1:54

Tgt Ion: 42 Resp: 11324
Ion Ratio Lower Upper
42 100
72 33.7 31.8 47.6
71 44.0 30.6 45.8



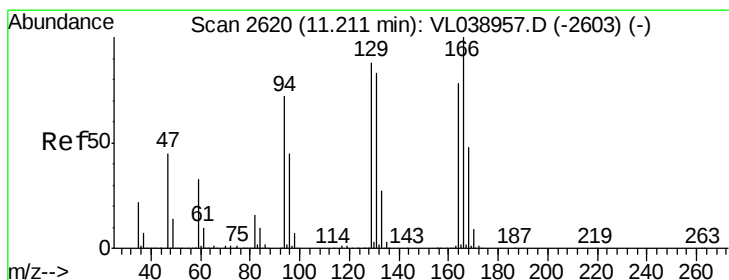
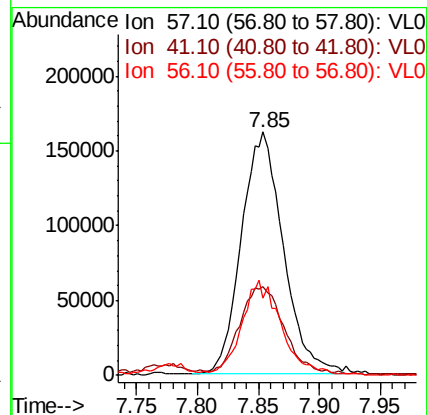
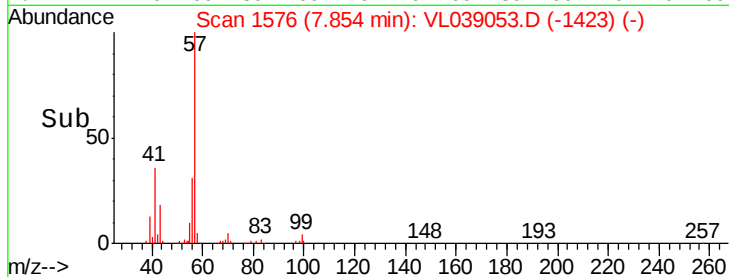
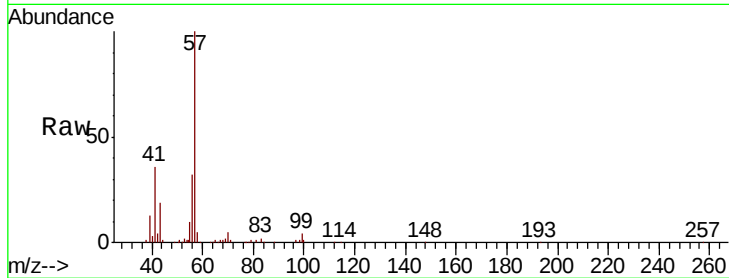


#44
 2,2,4-Trimethylpentane
 Concen: 1.222 ppbv
 RT: 7.85
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 May 2022 1:54

Tot Ion:
 Ion Ratio
 57 100
 41 38.
 56 37.

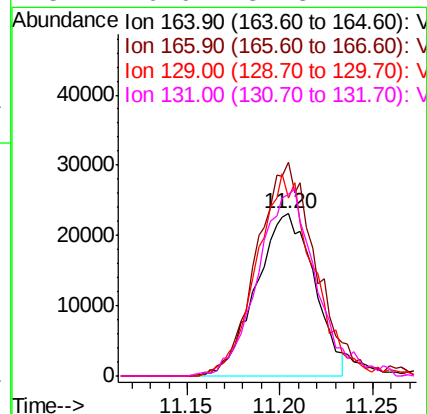
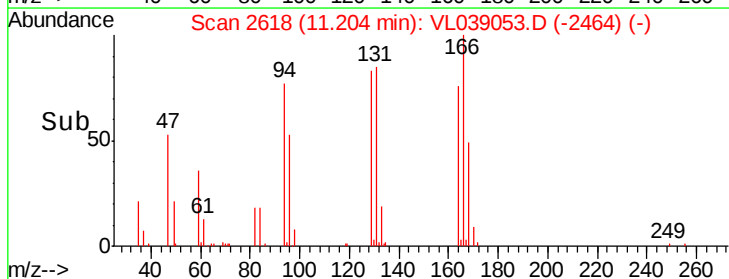
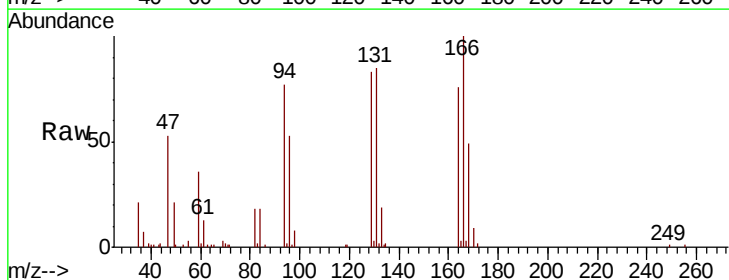
Manual Integrations
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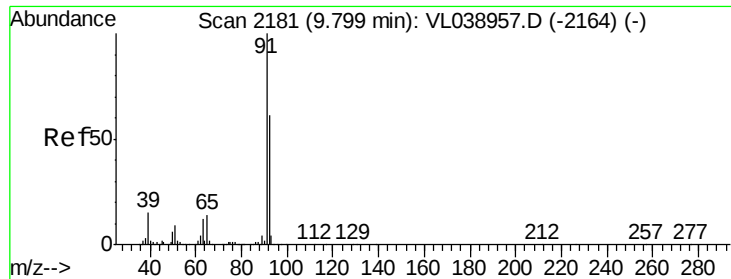
Reviewed By :Semsettin Yesilyurt 05/16/2022
 Supervised By :Mahesh Dadoda 05/17/2022



#52
 Tetrachloroethene
 Concen: 0.784 ppbv
 RT: 11.20 min Scan# 2618
 Delta R.T. -0.01 min
 Lab File: VL039053.D
 Acq: 14 May 2022 1:54

Tgt Ion:164 Resp: 50312
 Ion Ratio Lower Upper
 164 100
 166 131.6 102.5 153.7
 129 109.4 90.1 135.1
 131 110.9 84.8 127.2





#53

Toluene

Concen: 3.722 ppbv

RT: 9.79 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 May 2022 1:54

Tot Ion:

Ion Ratio

91 100

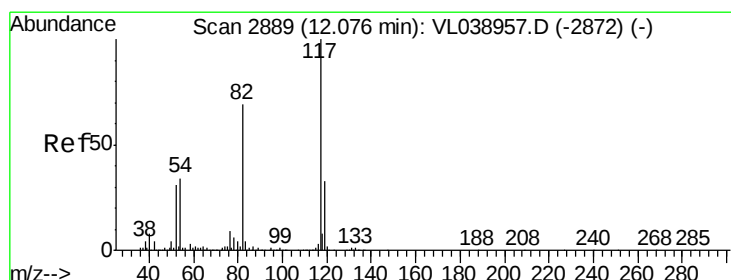
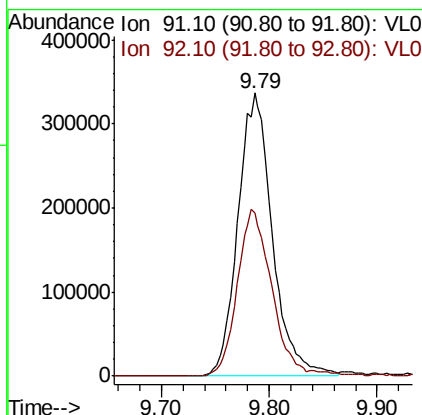
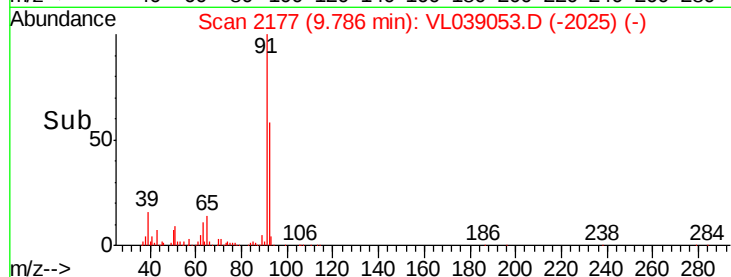
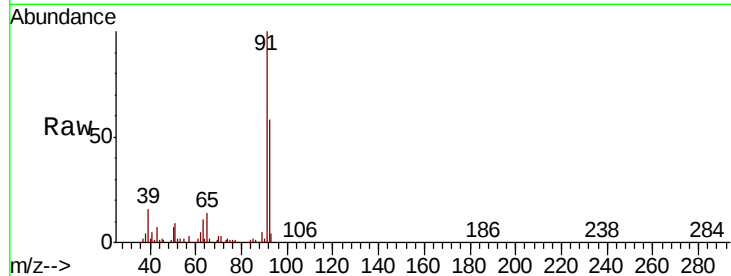
92 60.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/16/2022

Supervised By :Mahesh Dadoda 05/17/2022



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2885

Delta R.T. -0.01 min

Lab File: VL039053.D

Acq: 14 May 2022 1:54

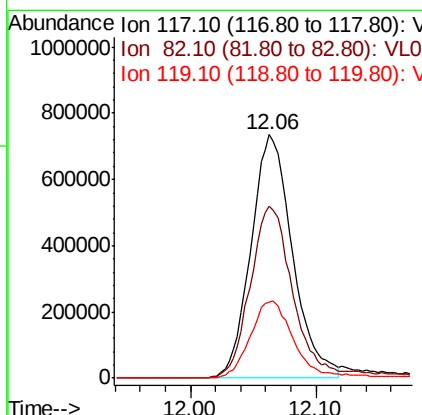
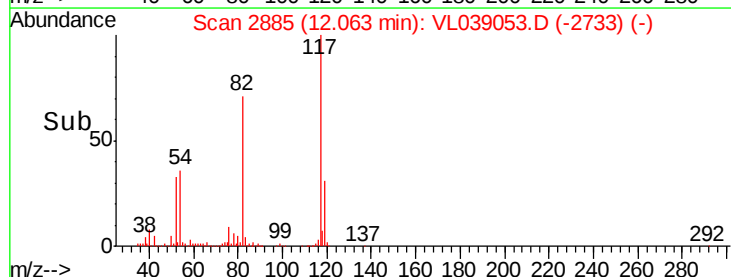
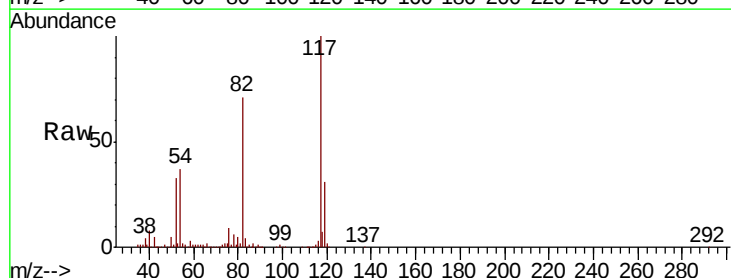
Tgt Ion:117 Resp: 1694469

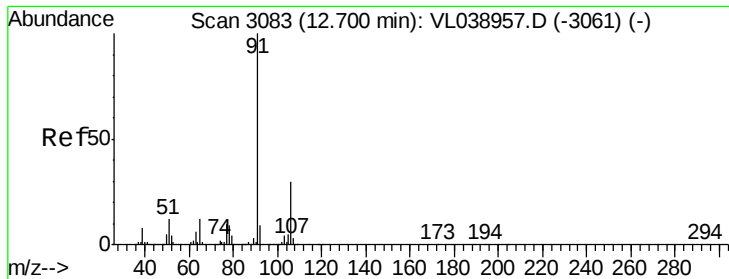
Ion Ratio Lower Upper

117 100

82 76.6 57.0 85.6

119 34.5 27.2 40.8





#58

Ethyl Benzene

Concen: 0.384 ppbv

RT: 12.69

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 14 May 2022 1:54

Tot Ion:

Ion Ratio

91 100

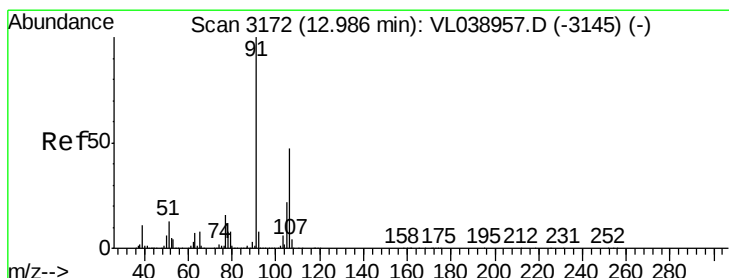
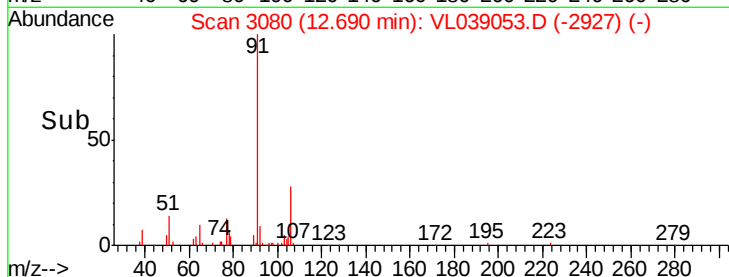
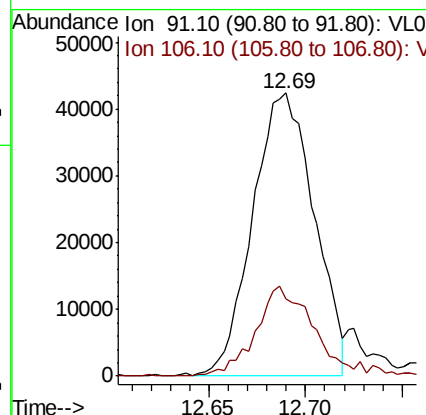
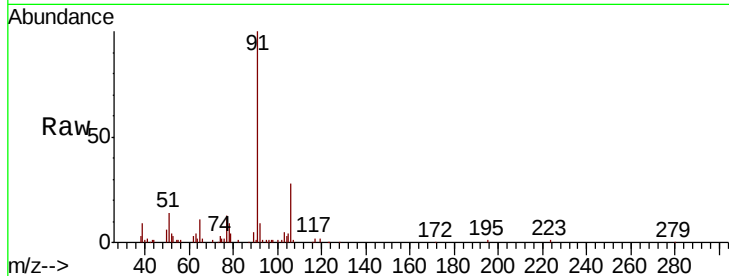
106 27.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/16/2022

Supervised By :Mahesh Dadoda 05/17/2022



#59

m/p-Xylene

Concen: 1.554 ppbv m

RT: 12.94 min Scan# 3159

Delta R.T. -0.04 min

Lab File: VL039053.D

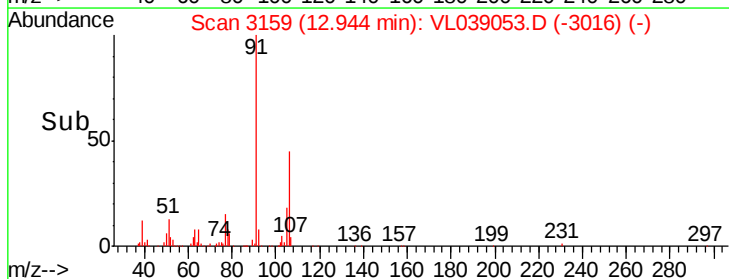
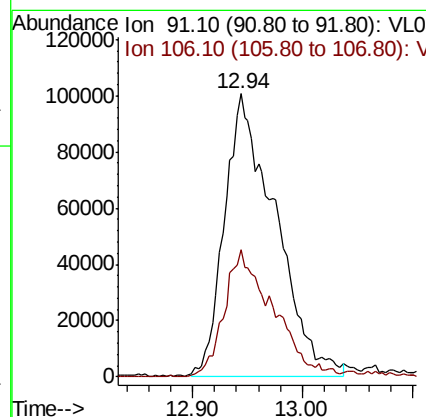
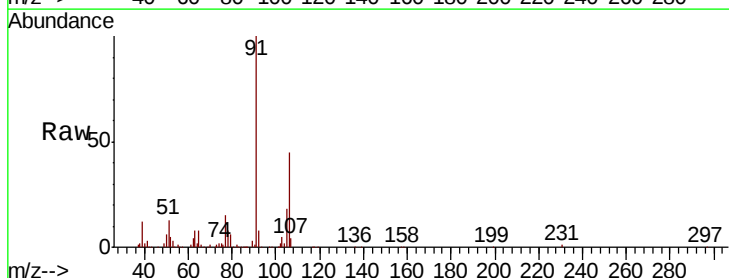
Acq: 14 May 2022 1:54

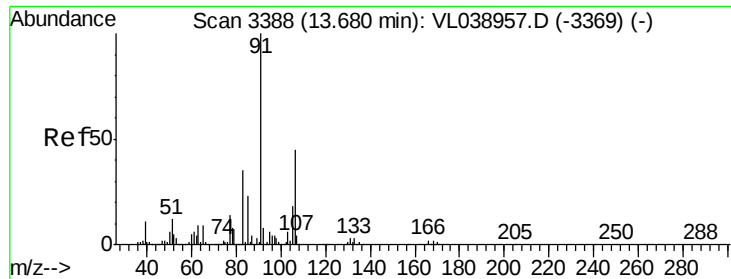
Tgt Ion: 91 Resp: 323412

Ion Ratio Lower Upper

91 100

106 0.0 34.6 52.0#



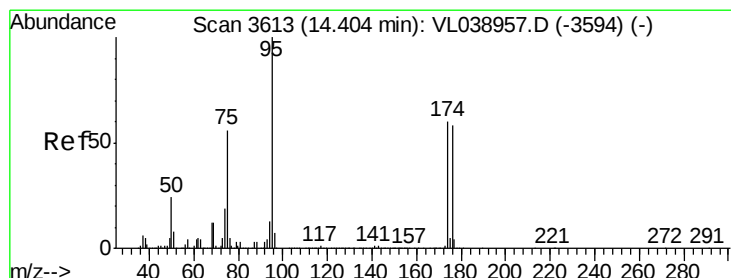
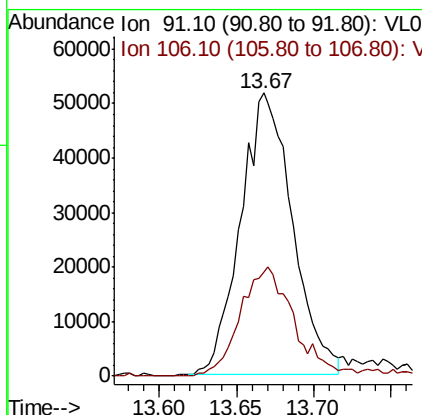
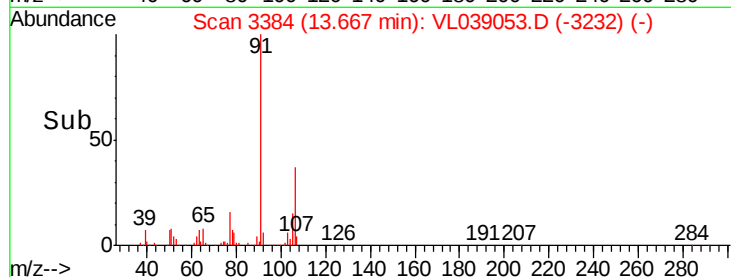
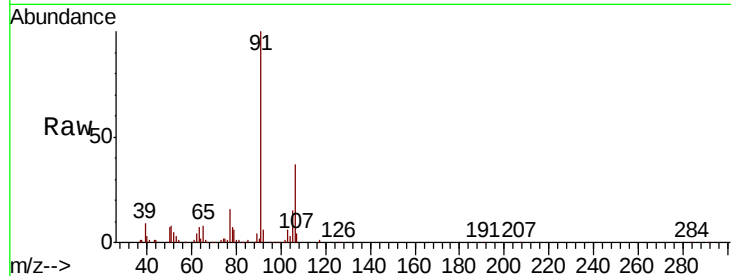


#60
o-Xylene
Concen: 0.615 ppbv
RT: 13.67
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 14 May 2022 1:54

Tot Ion:
Ion Ratio
91 100
106 41.

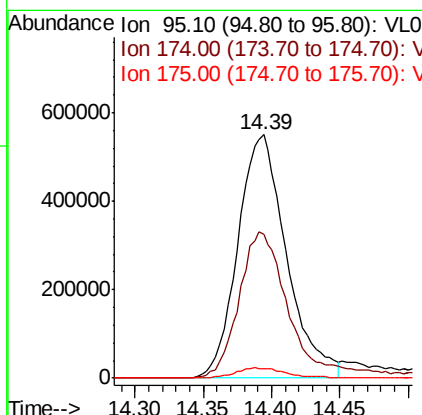
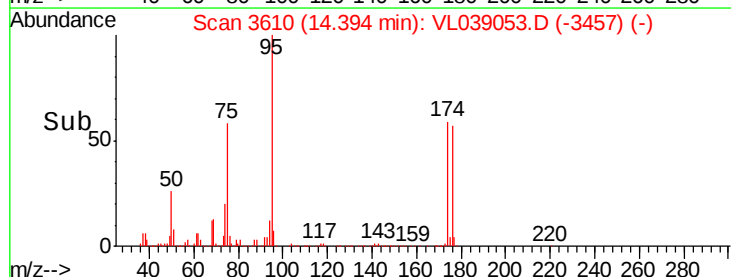
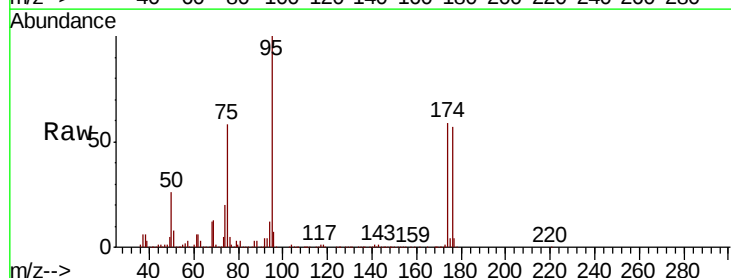
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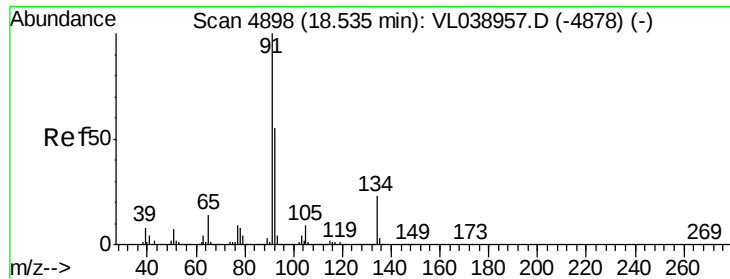
Reviewed By :Semsettin Yesilyurt 05/16/2022
Supervised By :Mahesh Dadoda 05/17/2022



#68
1-Bromo-4-Fluorobenzene
Concen: 10.102 ppbv
RT: 14.39 min Scan# 3610
Delta R.T. -0.01 min
Lab File: VL039053.D
Acq: 14 May 2022 1:54

Tgt Ion: 95 Resp: 1355608
Ion Ratio Lower Upper
95 100
174 65.3 50.8 76.2
175 4.4 3.8 5.6



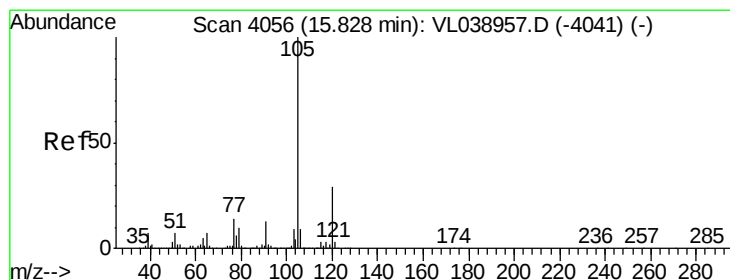
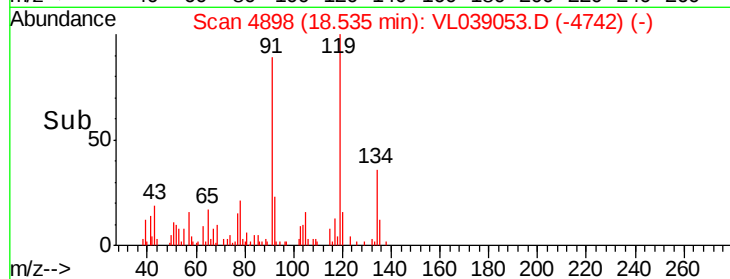
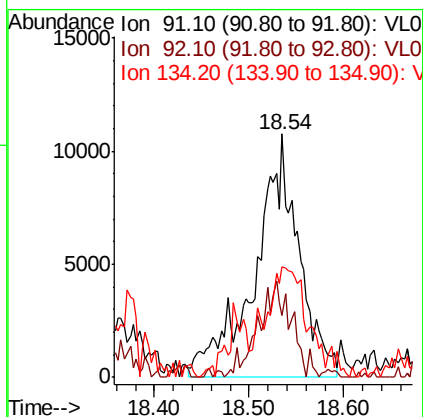
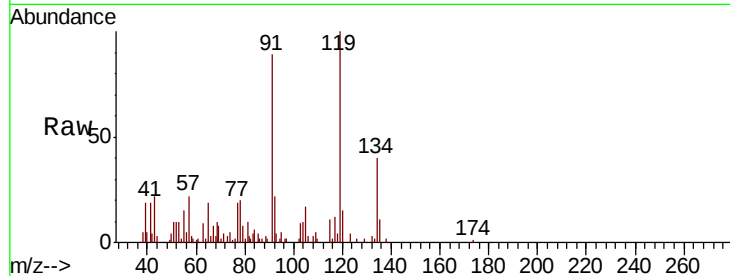


#70
n-Butylbenzene
Concen: 0.112 ppbv m
RT: 18.54
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 14 May 2022 1:54

Tot Ion:
Ion Ratio
91 100
92 31.
134 0.

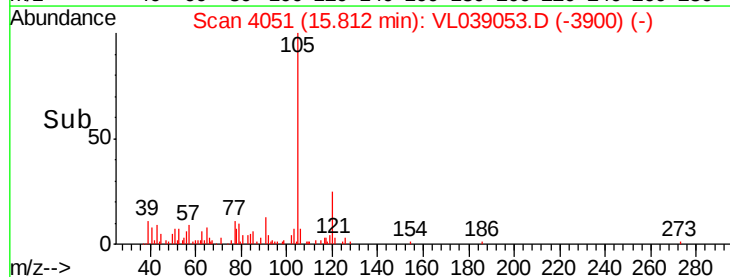
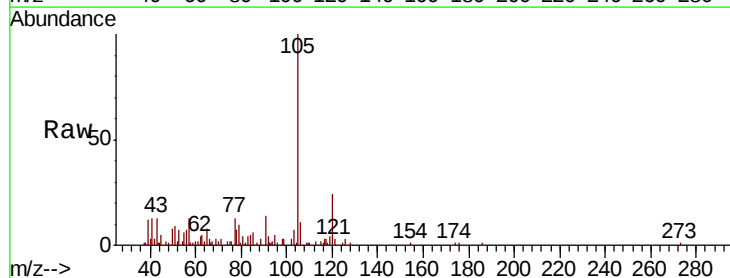
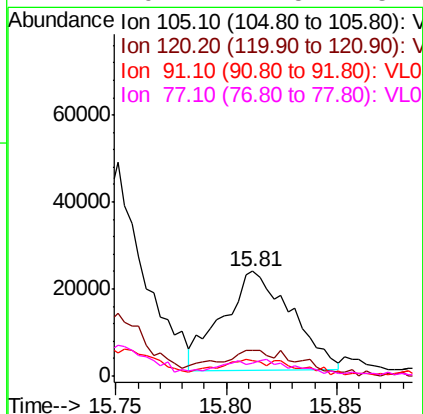
Manual Integrations
APPROVED

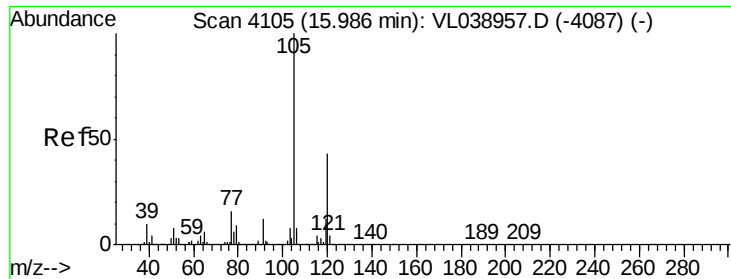
Reviewed By :Semsettin Yesilyurt 05/16/2022
Supervised By :Mahesh Dadoda 05/17/2022



#72
4-Ethyltoluene
Concen: 0.223 ppbv
RT: 15.81 min Scan# 4051
Delta R.T. -0.02 min
Lab File: VL039053.D
Acq: 14 May 2022 1:54

Tgt Ion:105 Resp: 49802
Ion Ratio Lower Upper
105 100
120 31.4 23.4 35.0
91 22.8 10.6 16.0#
77 19.2 12.5 18.7#





#73

1,3,5-Trimethylbenzene

Concen: 0.260 ppbv m

RT: 15.97

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 14 May 2022 1:54

Tot Ion:1

Ion Rati

105 100

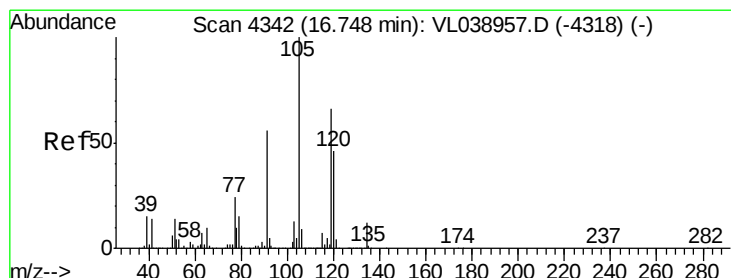
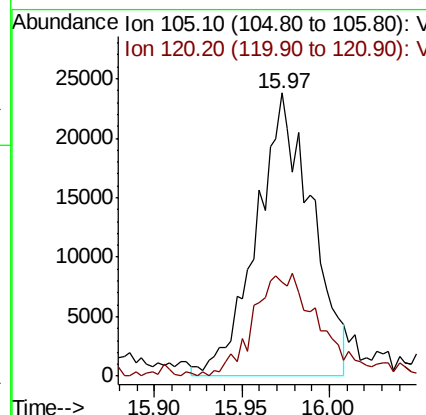
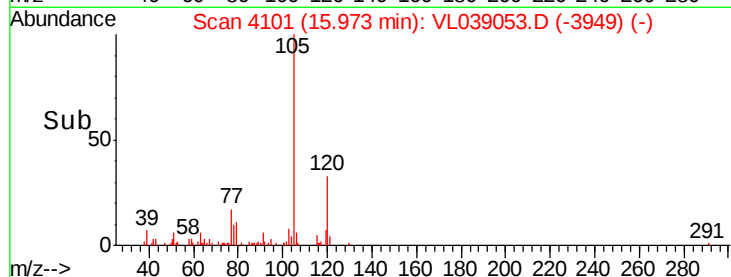
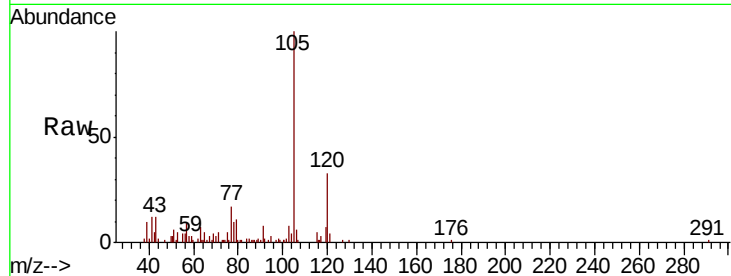
120 33.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/16/2022

Supervised By :Mahesh Dadoda 05/17/2022



#74

1,2,4-Trimethylbenzene

Concen: 0.956 ppbv

RT: 16.74 min Scan# 4340

Delta R.T. -0.01 min

Lab File: VL039053.D

Acq: 14 May 2022 1:54

Tgt Ion:105 Resp: 210490

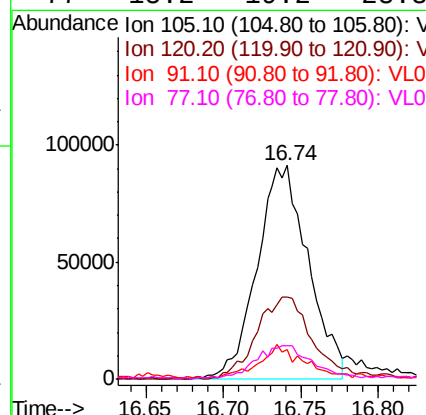
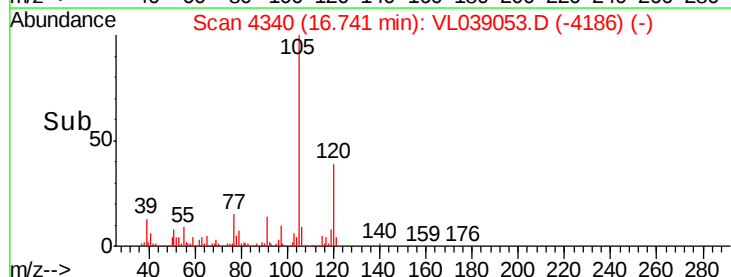
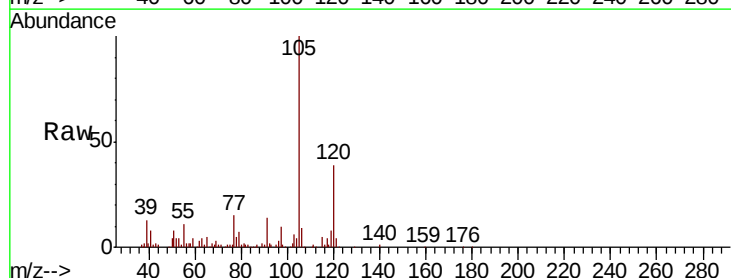
Ion Ratio Lower Upper

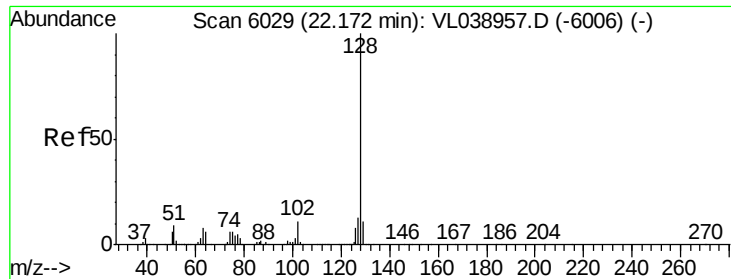
105 100

120 38.2 36.9 55.3

91 13.2 45.0 67.4#

77 15.2 19.2 28.8#





#79

Naphthalene

Concen: 0.137 ppbv m

RT: 22.17 Instrument :

Delta R.T MSVOA_L

Lab File: ClientSampleId :

Acq: 14 May 2022 1.34

Tot Ion:1

Ion Rati

128 100

127 7.

129 9.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/16/2022

Supervised By :Mahesh Dadoda 05/17/2022

