

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012422\
 Data File : VL038272.D
 Acq On : 24 Jan 2022 23:03
 Operator : SY/AP
 Sample : N1244-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 SG-1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/25/2022
 Supervised By :Mahesh Dadoda 01/26/2022

Quant Time: Jan 25 14:42:20 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL012422A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Mon Jan 24 14:12:48 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	807460	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	1994209	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	1786255	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1352112	9.97	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.70%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.06	85	61068	0.355	ppbv	97
3) Chlorodifluoromethane	3.00	51	23023m	0.143	ppbv	
4) Chloromethane	3.15	50	18612	0.337	ppbv	100
9) Propene	3.03	41	149267m	2.853	ppbv	
10) Heptane	8.13	43	380162	2.824	ppbv	100
11) Trichlorofluoromethane	3.97	101	28838m	0.215	ppbv	
13) Ethanol	3.62	45	6164465	1097.379	ppbv	98
15) Acetone	3.86	43	4211410	59.166	ppbv	100
17) tert-Butyl alcohol	4.32	59	76463	0.979	ppbv	98
19) Isopropyl Alcohol	3.99	45	74098	1.664	ppbv #	1
20) Methylene Chloride	4.37	84	103108	2.491	ppbv	92
26) Hexane	5.71	57	520986	5.620	ppbv #	45
29) Chloroform	5.77	83	58679	0.388	ppbv	98
30) Cyclohexane	7.14	84	24745m	0.307	ppbv	
34) 2-Butanone	5.26	43	124873	1.915	ppbv	97
35) Carbon Tetrachloride	7.03	117	6891m	0.049	ppbv	
36) Benzene	6.90	78	229192	1.299	ppbv	96
41) Tetrahydrofuran	6.07	42	14473m	0.330	ppbv	
44) 2,2,4-Trimethylpentane	7.88	57	155045	0.499	ppbv #	75
50) 4-Methyl-2-Pentanone	8.75	43	86331	0.742	ppbv	95
52) Tetrachloroethene	11.24	164	1522506	25.043	ppbv	99
53) Toluene	9.82	91	2690048	13.778	ppbv	99
58) Ethyl Benzene	12.72	91	382803	1.458	ppbv	93
59) m/p-Xylene	12.97	91	1062857	4.745	ppbv	97
60) o-Xylene	13.70	91	369100	1.772	ppbv	99
62) Isopropylbenzene	14.67	105	29418m	0.106	ppbv	
64) n-propylbenzene	15.57	120	17708m	0.265	ppbv	
72) 4-Ethyltoluene	15.85	105	109435m	0.502	ppbv	
73) 1,3,5-Trimethylbenzene	16.00	105	92045m	0.470	ppbv	
74) 1,2,4-Trimethylbenzene	16.77	105	267374	1.295	ppbv #	74

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

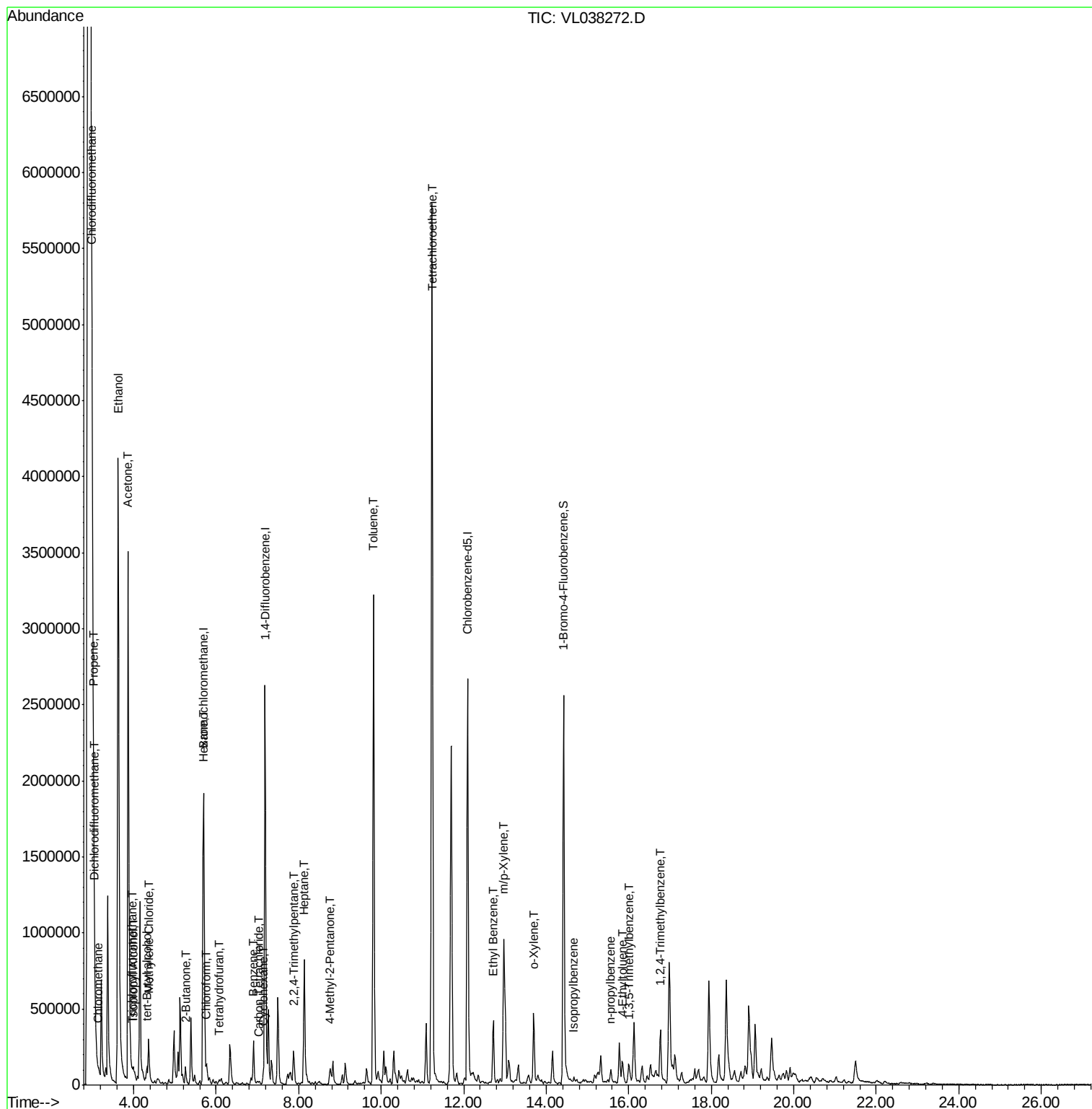
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL012422\
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Reviewed By :Semsettin Yesilyurt 01/25/2022
Supervised By :Mahesh Dadoda 01/26/2022





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 24 Jan 2022 23:03

Tot Ion:

Ion Ratio

49 100

128 45.

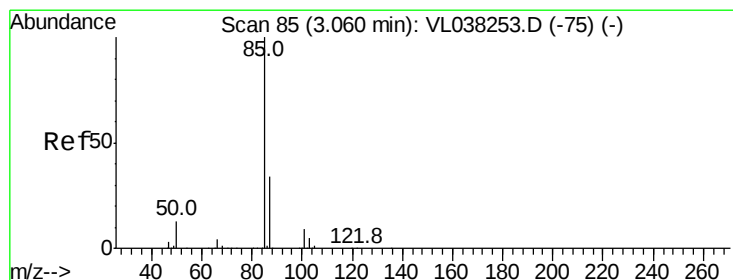
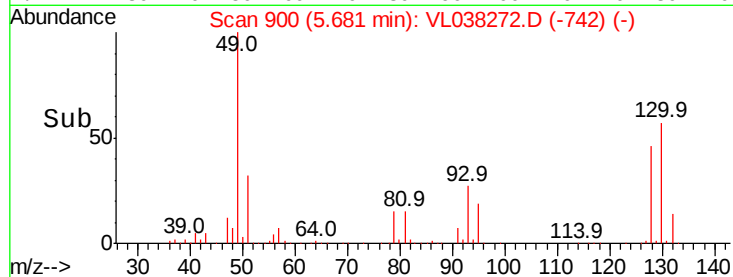
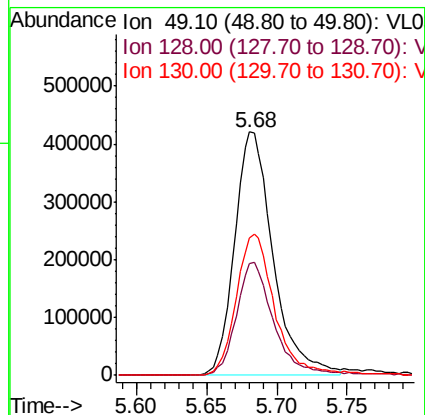
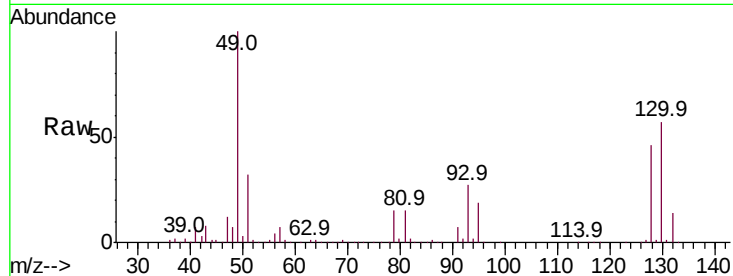
130 58.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/25/2022

Supervised By :Mahesh Dadoda 01/26/2022



#2

Dichlorodifluoromethane

Concen: 0.355 ppbv

RT: 3.06 min Scan# 84

Delta R.T. -0.00 min

Lab File: VL038272.D

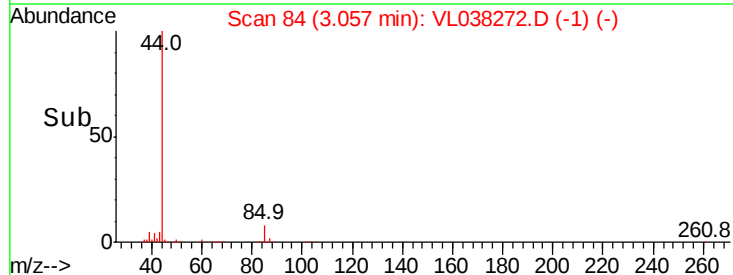
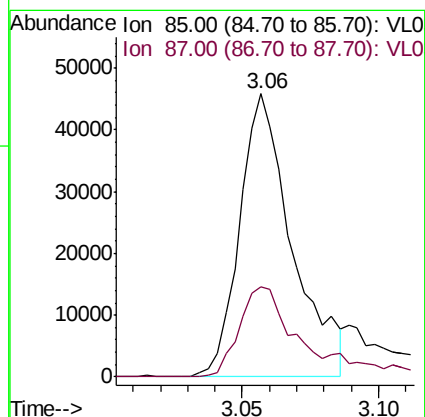
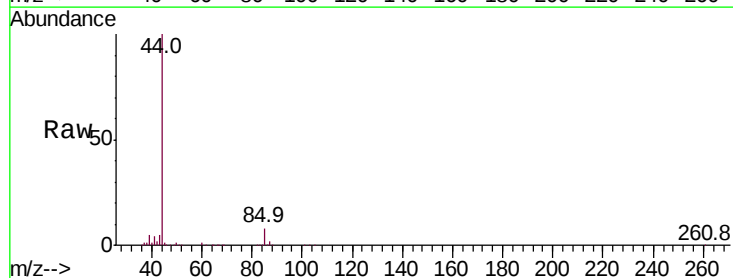
Acq: 24 Jan 2022 23:03

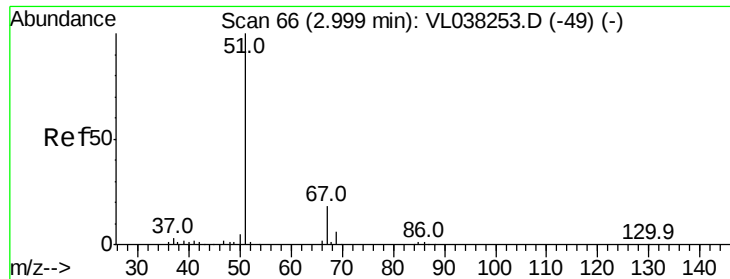
Tgt Ion: 85 Resp: 61068

Ion Ratio Lower Upper

85 100

87 31.9 27.0 40.6



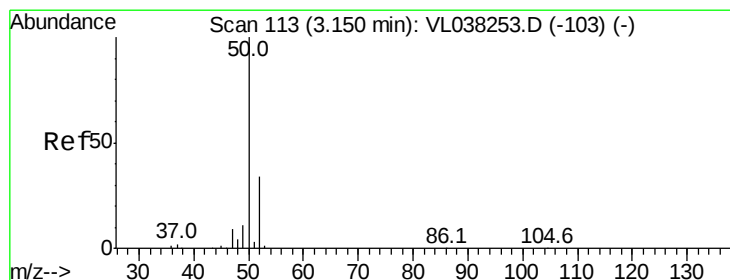
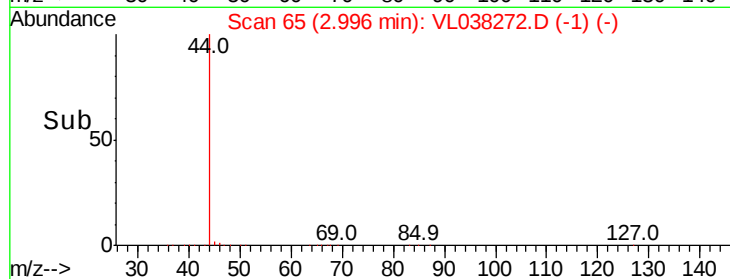
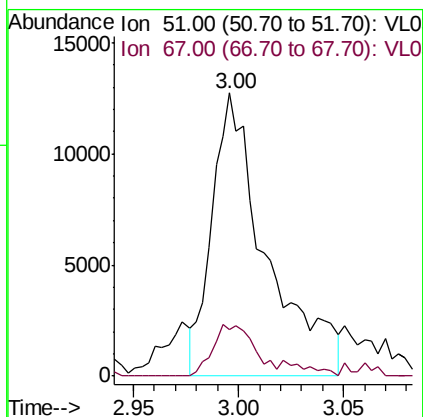
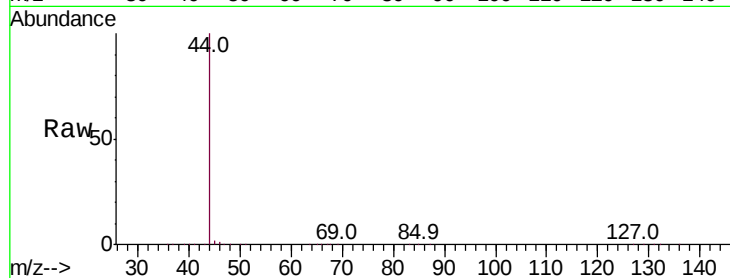


#3
 Chlorodifluoromethane
 Concen: 0.143 ppbv m
 RT: 3.00 Instrument : MSVOA_1
 Delta R.T. ClientSampleId :
 Lab File: SG-1
 Acq: 24 Jan 2022 23:03

Tot Ion:
 Ion Ratio
 51 100
 67 1.

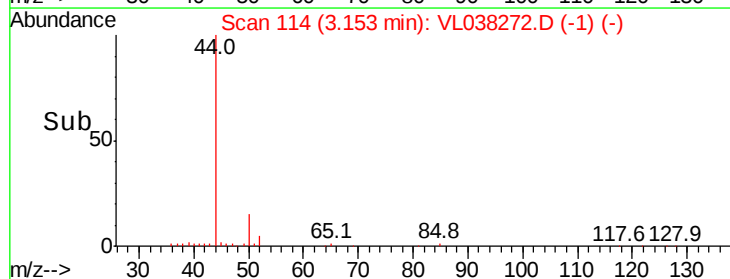
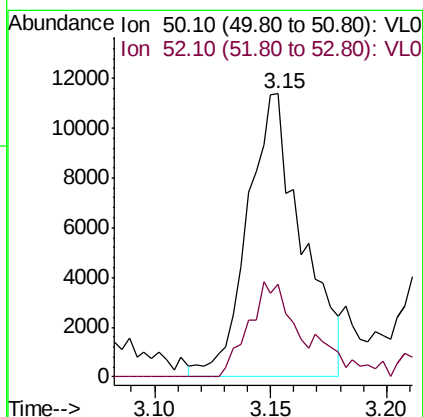
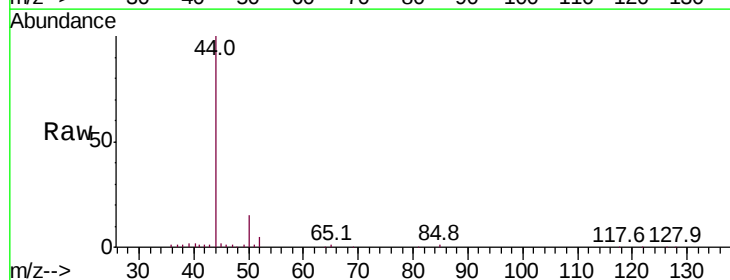
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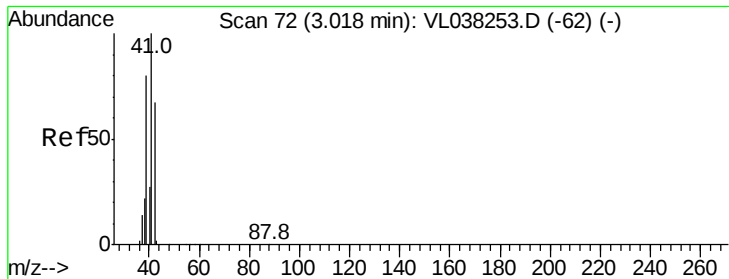
Reviewed By :Semsettin Yesilyurt 01/25/2022
 Supervised By :Mahesh Dadoda 01/26/2022



#4
 Chloromethane
 Concen: 0.337 ppbv
 RT: 3.15 min Scan# 114
 Delta R.T. 0.00 min
 Lab File: VL038272.D
 Acq: 24 Jan 2022 23:03

Tgt Ion: 50 Resp: 18612
 Ion Ratio Lower Upper
 50 100
 52 33.8 27.1 40.7





#9

Propene

Concen: 2.853 ppbv m

RT: 3.03

Delta R.T.

Lab File:

Acq: 24 Jan 2022 23:03

Instrument :

MSVOA_1

ClientSampleId :

SG-1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/25/2022

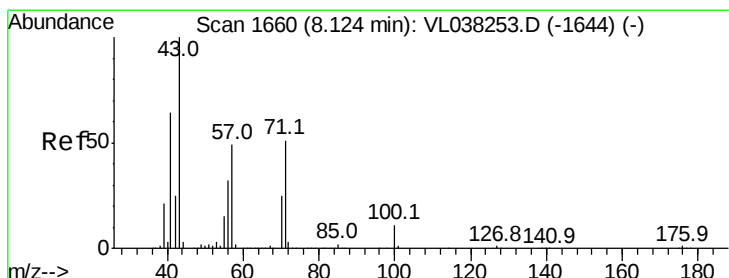
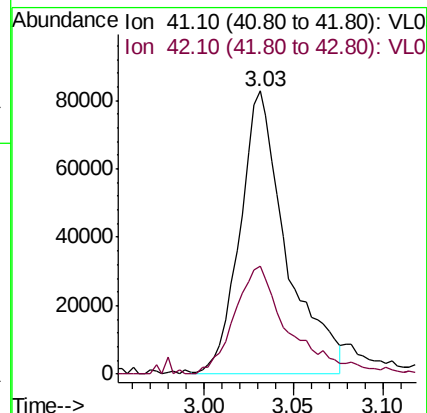
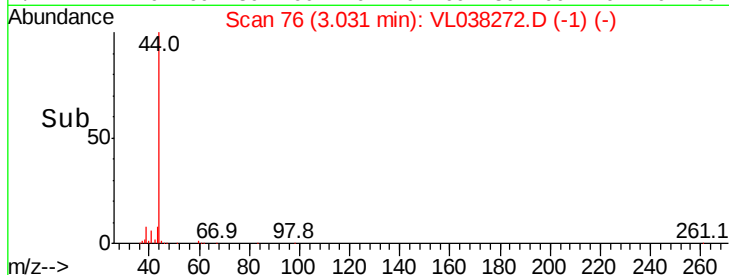
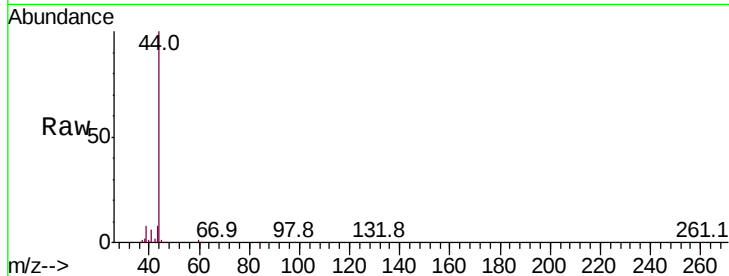
Supervised By :Mahesh Dadoda 01/26/2022

Tot Ion:

Ion Ratio

41 100

42 101.



#10

Heptane

Concen: 2.824 ppbv

RT: 8.13 min Scan# 1663

Delta R.T. 0.01 min

Lab File: VL038272.D

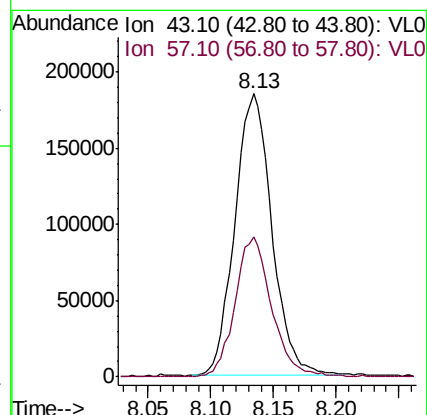
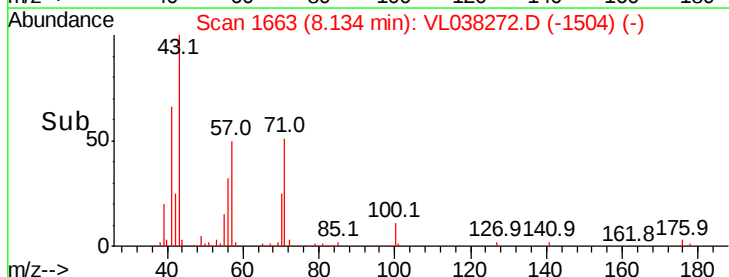
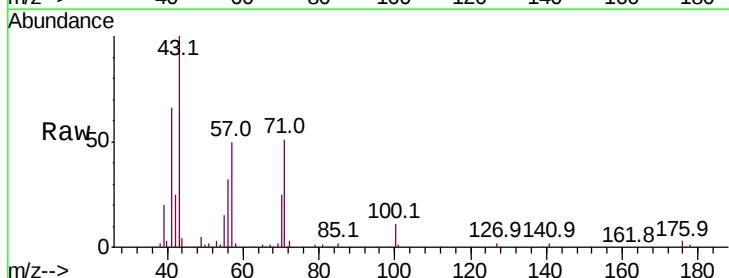
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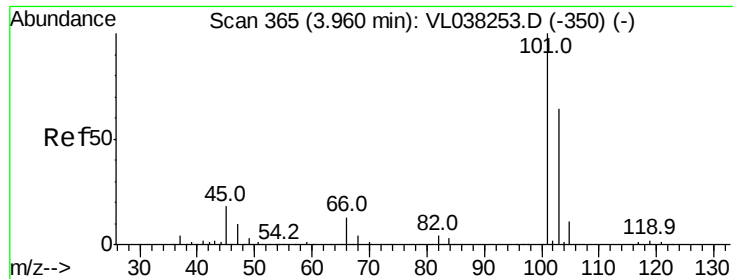
Tgt Ion: 43 Resp: 380162

Ion Ratio Lower Upper

43 100

57 49.4 39.5 59.3



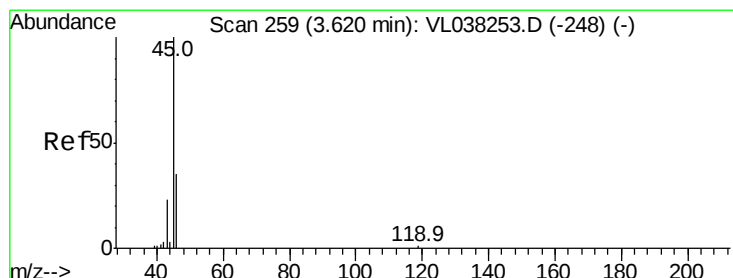
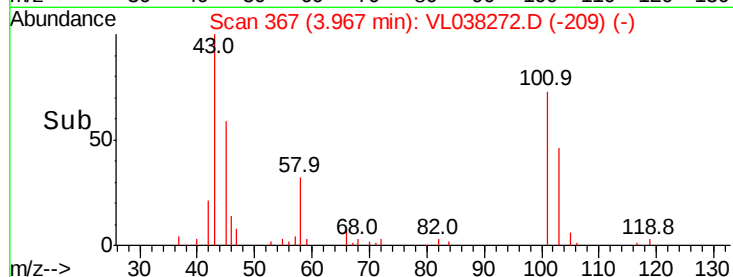
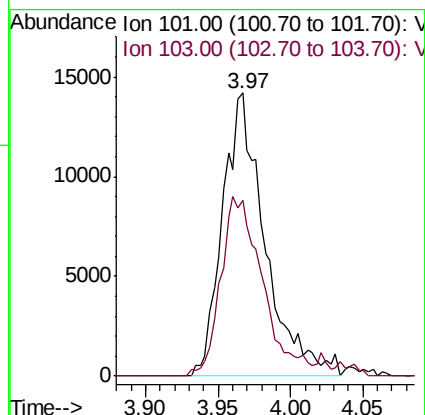
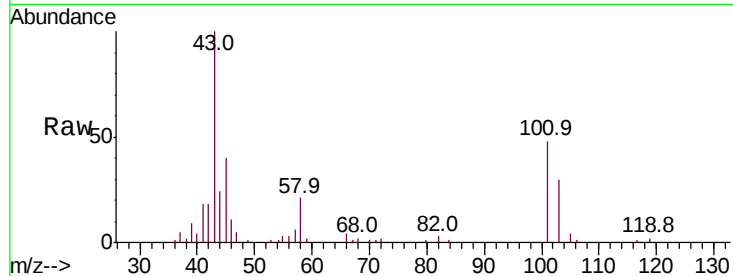


#11
 Trichlorofluoromethane
 Concen: 0.215 ppbv m
 RT: 3.97
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 24 Jan 2022 23:03

Tot Ion:1
 Ion Rati
 101 100
 103 62.

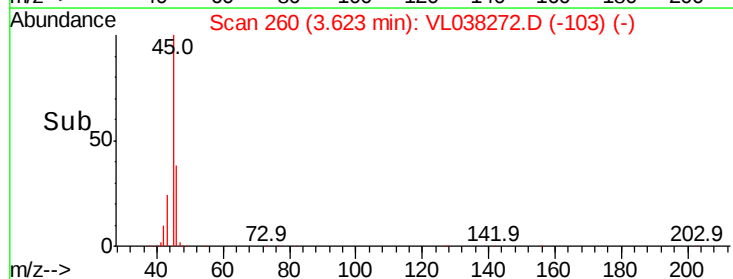
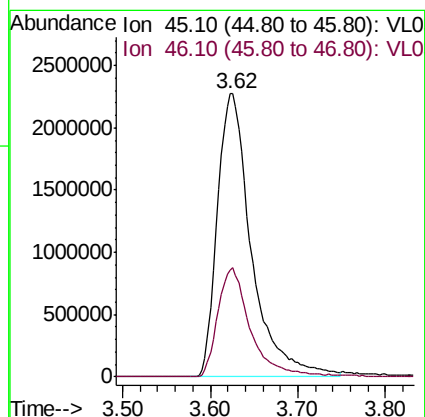
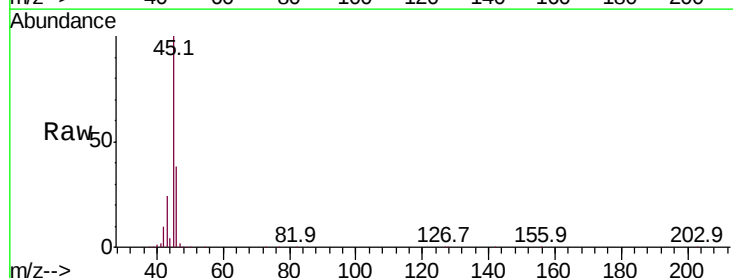
Manual Integrations
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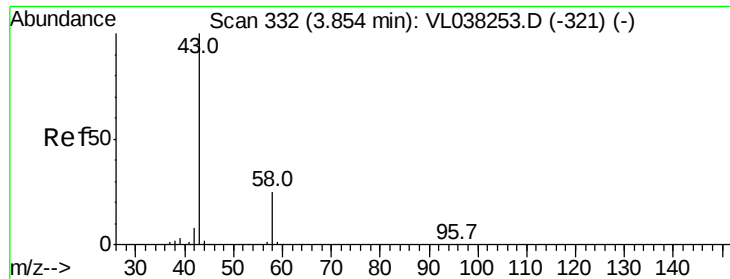
Reviewed By :Semsettin Yesilyurt 01/25/2022
 Supervised By :Mahesh Dadoda 01/26/2022



#13
 Ethanol
 Concen: 1097.379 ppbv
 RT: 3.62 min Scan# 260
 Delta R.T. 0.00 min
 Lab File: VL038272.D
 Acq: 24 Jan 2022 23:03

Tgt Ion: 45 Resp: 6164465
 Ion Ratio Lower Upper
 45 100
 46 37.6 15.4 61.6





#15

Acetone

Concen: 59.166 ppbv

RT: 3.86 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 24 Jan 2022 23:03 SG-1

Tot Ion:

Ion Ratio

43 100

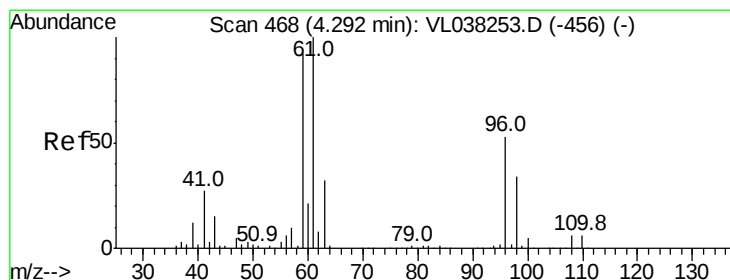
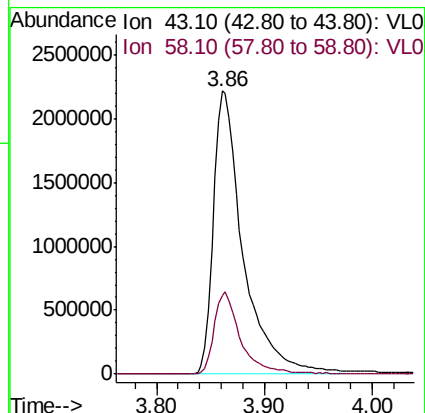
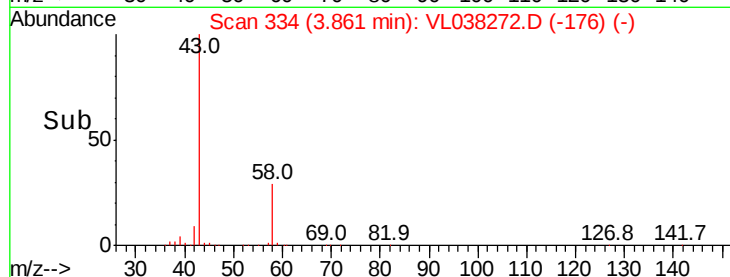
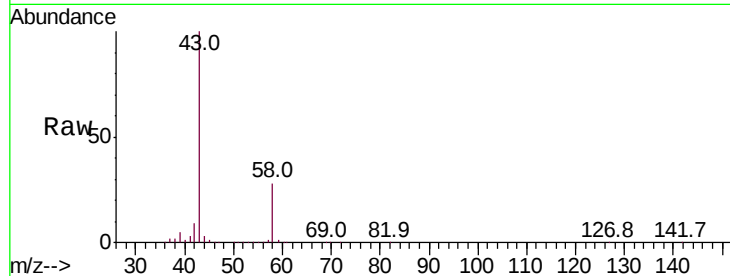
58 26.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/25/2022

Supervised By :Mahesh Dadoda 01/26/2022



#17

tert-Butyl alcohol

Concen: 0.979 ppbv

RT: 4.32 min Scan# 476

Delta R.T. 0.03 min

Lab File: VL038272.D

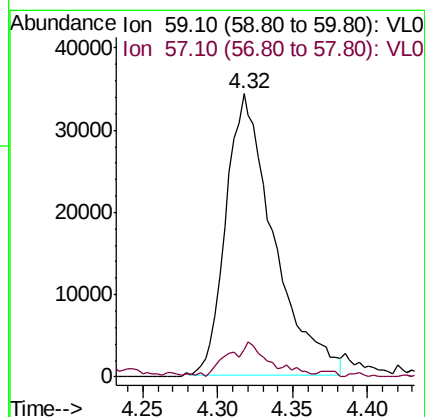
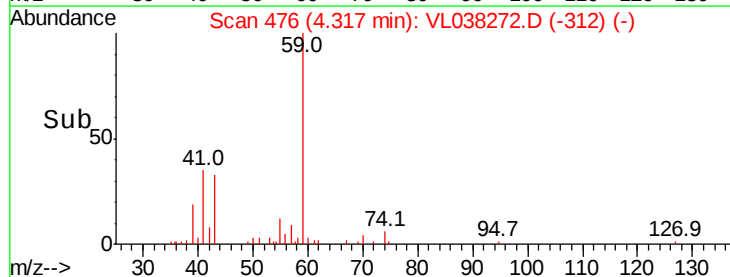
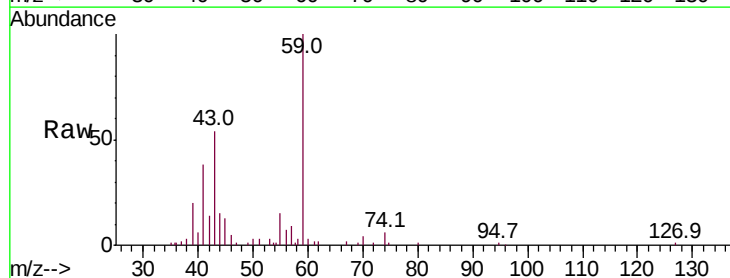
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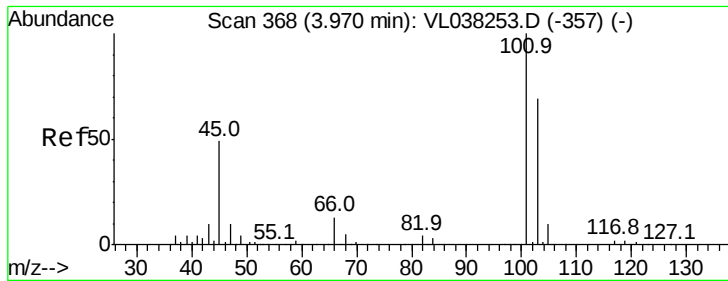
Tgt Ion: 59 Resp: 76463

Ion Ratio Lower Upper

59 100

57 12.2 9.2 13.8





#19

Isopropyl Alcohol

Concen: 1.664 ppbv

RT: 3.99

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 24 Jan 2022 23:03

Tot Ion:

Ion Ratio

45 100

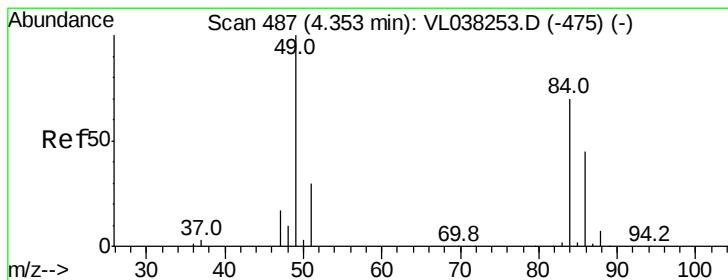
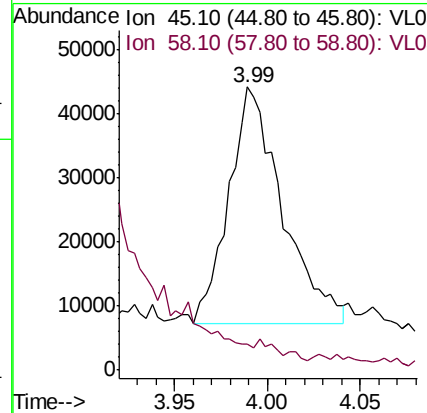
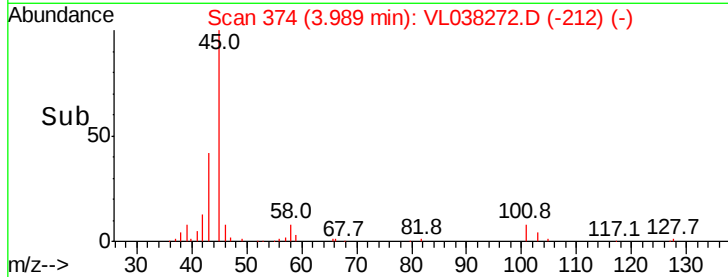
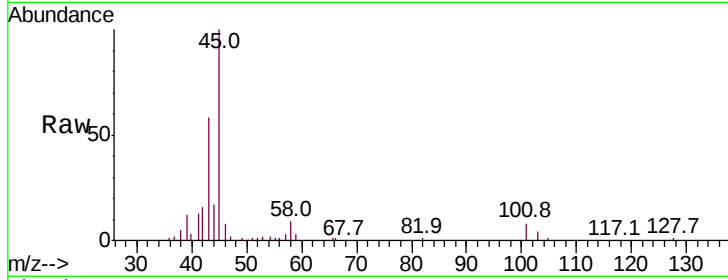
58 1520

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/25/2022

Supervised By :Mahesh Dadoda 01/26/2022



#20

Methylene Chloride

Concen: 2.491 ppbv

RT: 4.37 min Scan# 491

Delta R.T. 0.01 min

Lab File: VL038272.D

Acq: 24 Jan 2022 23:03

Tgt Ion: 84 Resp: 103108

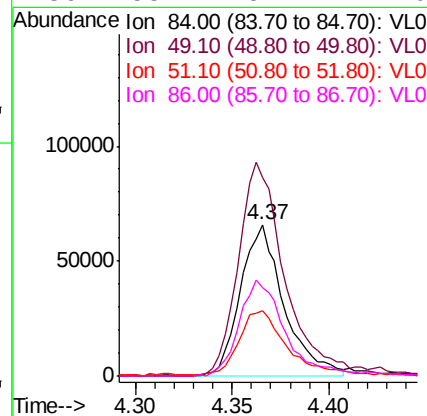
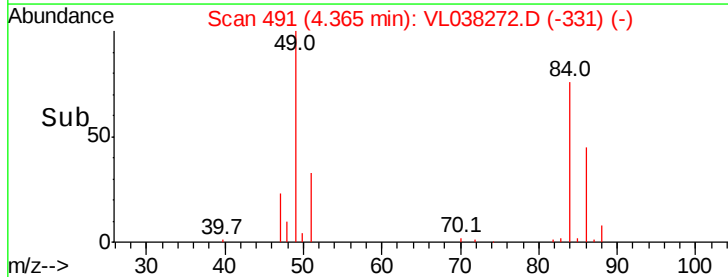
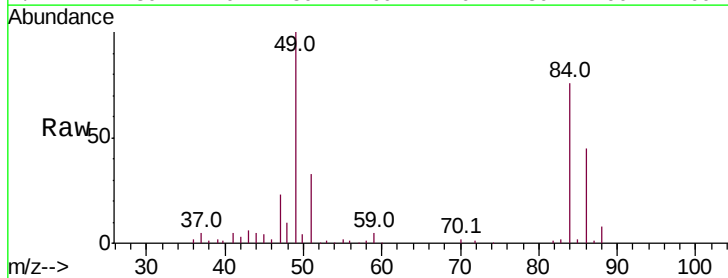
Ion Ratio Lower Upper

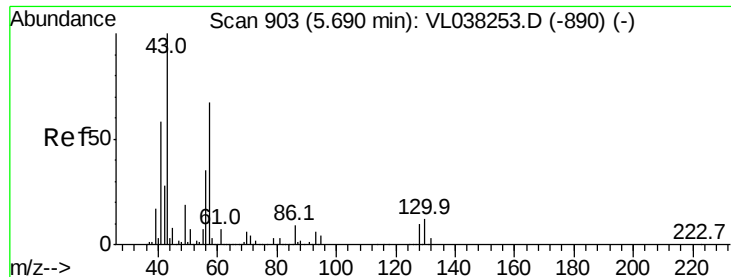
84 100

49 130.8 115.0 172.6

51 42.0 35.0 52.6

86 58.4 51.4 77.0





#26

Hexane

Concen: 5.620 ppbv

RT: 5.71

Delta R.T. MSVOA_L

Lab File:

Acq: 24 Jan 2022 23:03

Instrument :

ClientSampleId :

SG-1

Tot Ion:

Ion Ratio

57 100

41 90.

43 74.

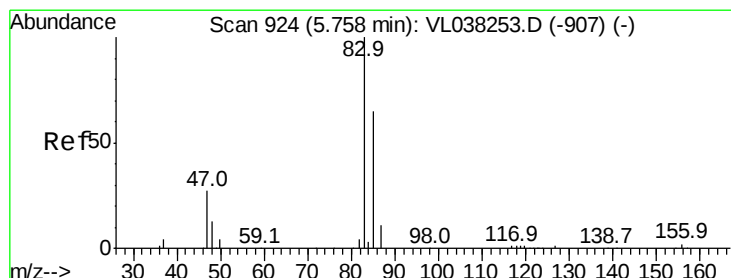
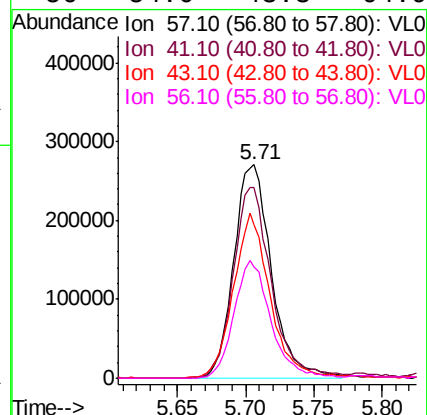
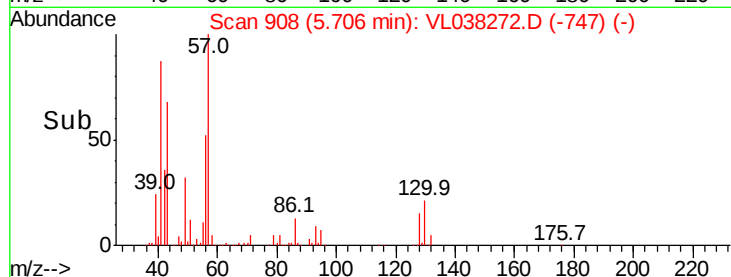
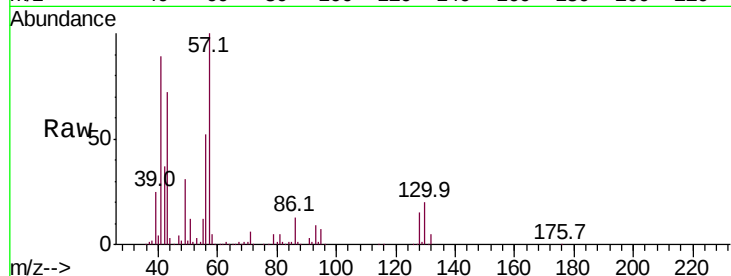
56 54.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/25/2022

Supervised By :Mahesh Dadoda 01/26/2022



#29

Chloroform

Concen: 0.388 ppbv

RT: 5.77 min Scan# 927

Delta R.T. 0.01 min

Lab File: VL038272.D

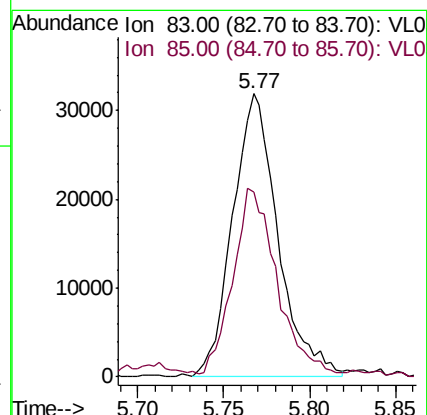
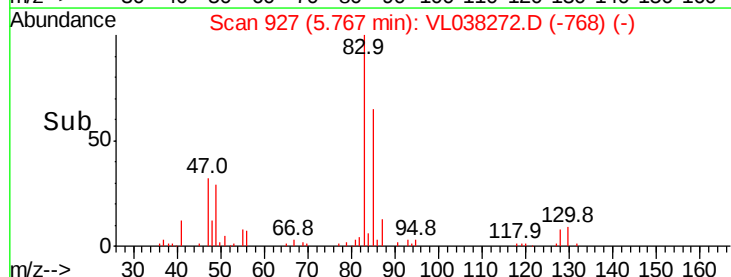
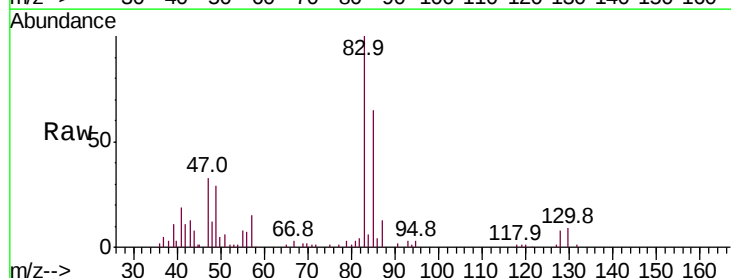
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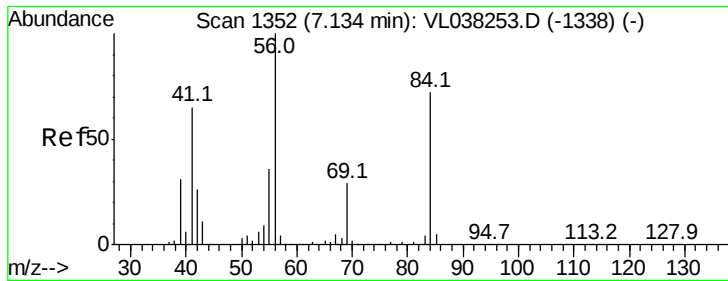
Tgt Ion: 83 Resp: 58679

Ion Ratio Lower Upper

83 100

85 63.5 51.9 77.9



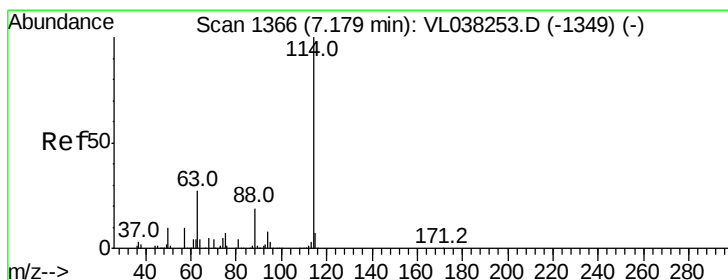
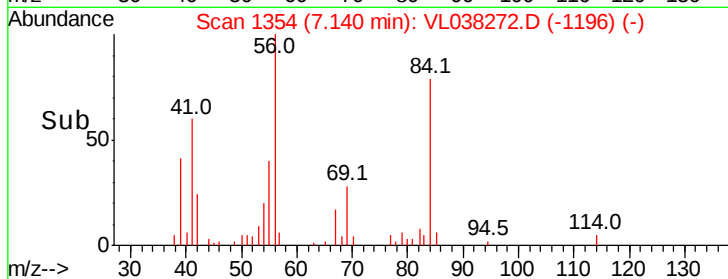
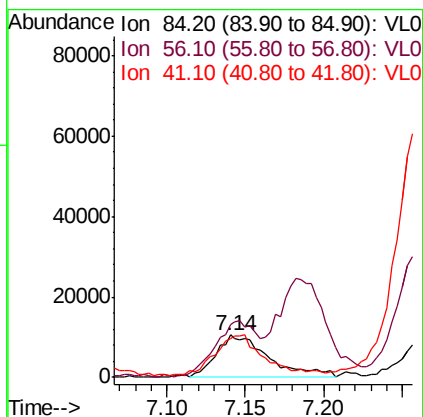
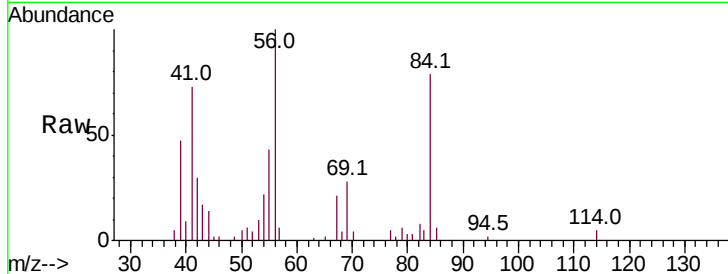


#30
Cvclohexane
Concen: 0.307 ppbv m
RT: 7.14
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampled :
Acq: 24 Jan 2022 23:03

Tot Ion:
Ion Ratio
84 100
56 0.
41 0.

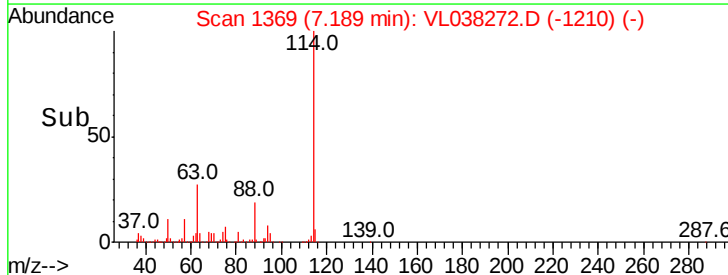
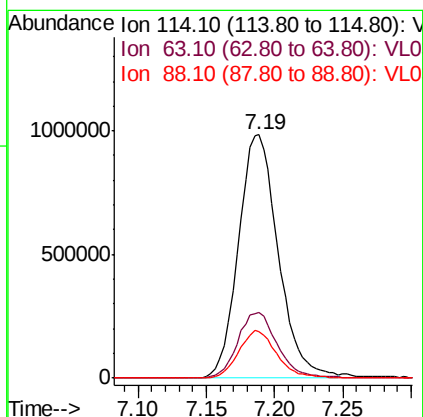
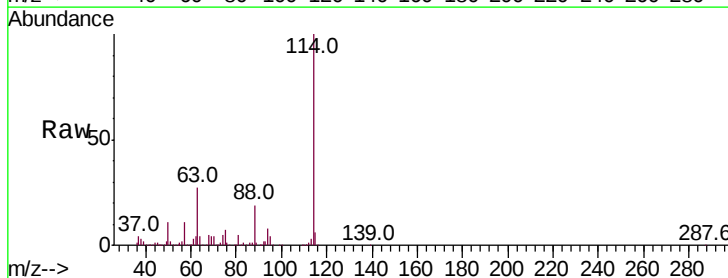
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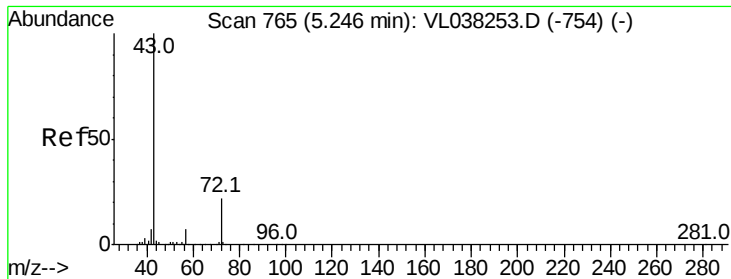
Reviewed By :Semsettin Yesilyurt 01/25/2022
Supervised By :Mahesh Dadoda 01/26/2022



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1369
Delta R.T. 0.01 min
Lab File: VL038272.D
Acq: 24 Jan 2022 23:03

Tgt Ion:114 Resp: 1994209
Ion Ratio Lower Upper
114 100
63 27.3 22.0 33.0
88 18.9 15.0 22.6





#34

2-Butanone

Concen: 1.915 ppbv

RT: 5.26 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 24 Jan 2022 23:03 SG-1

Tot Ion:

Ion Ratio

43 100

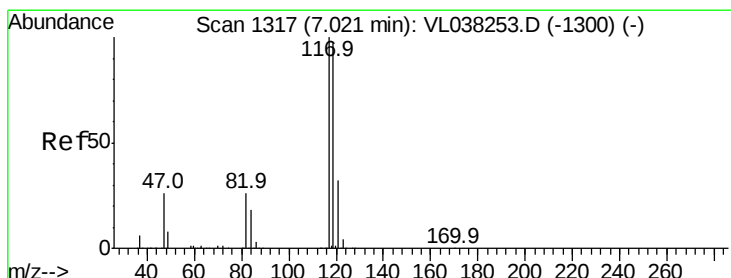
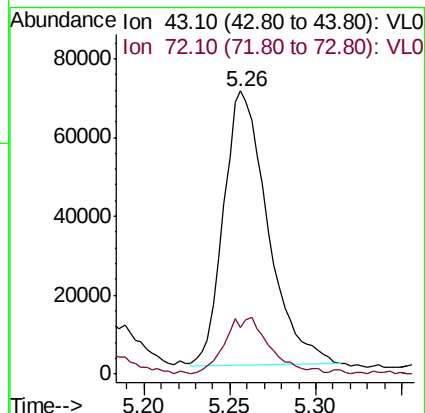
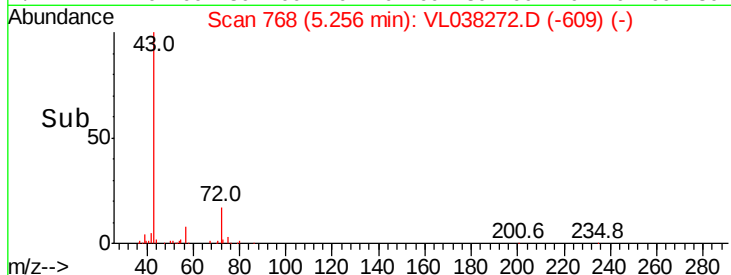
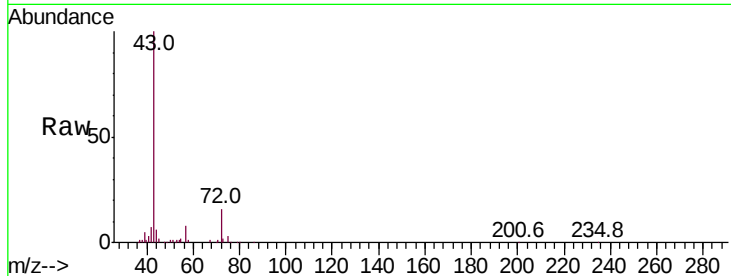
72 21.

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Reviewed By :Semsettin Yesilyurt 01/25/2022

Supervised By :Mahesh Dadoda 01/26/2022



#35

Carbon Tetrachloride

Concen: 0.049 ppbv m

RT: 7.03 min Scan# 1321

Delta R.T. 0.01 min

Lab File: VL038272.D

Acq: 24 Jan 2022 23:03

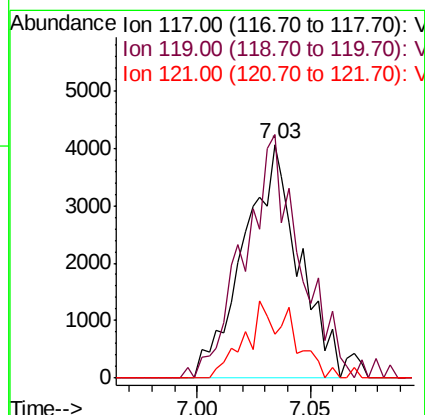
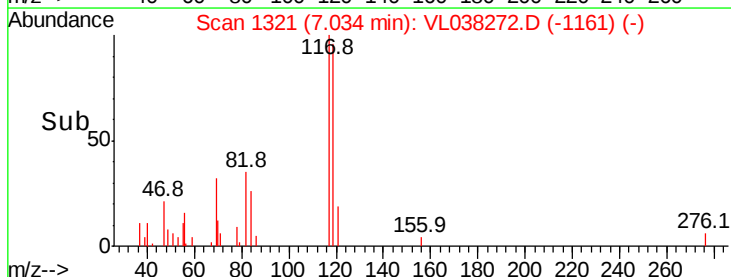
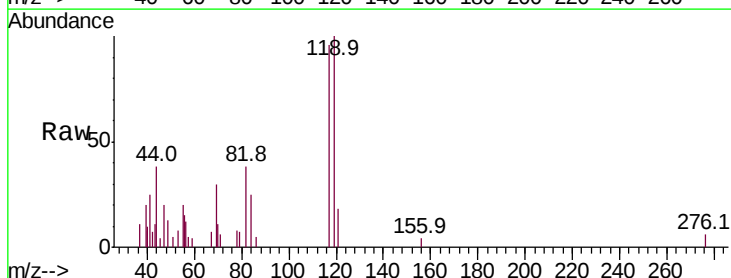
Tgt Ion:117 Resp: 6891

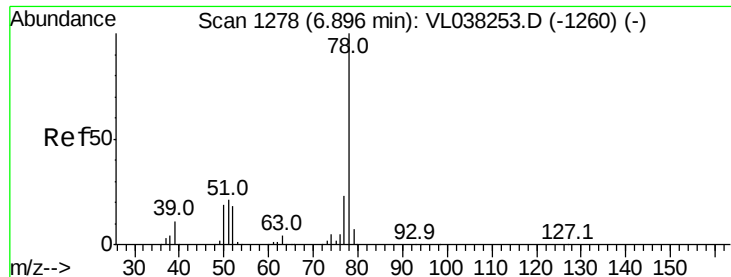
Ion Ratio Lower Upper

117 100

119 104.3 77.9 116.9

121 18.7 25.4 38.2#



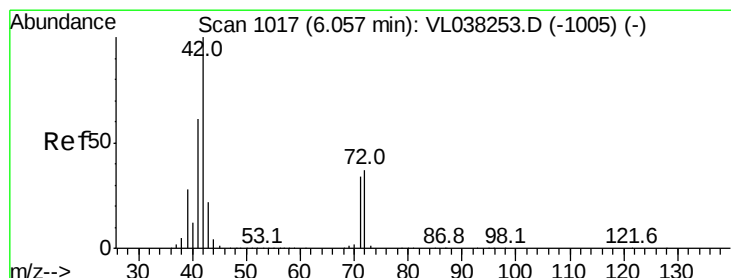
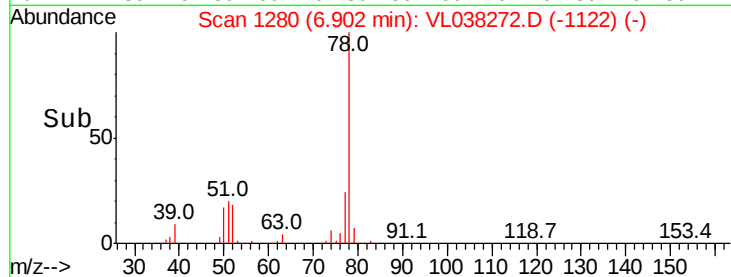
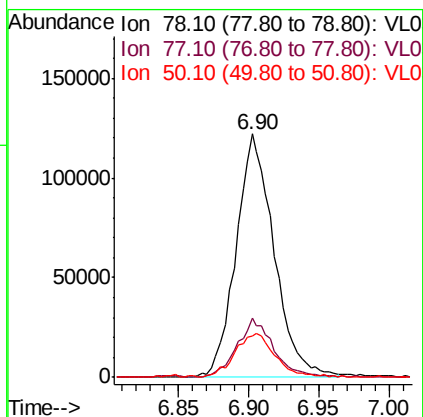
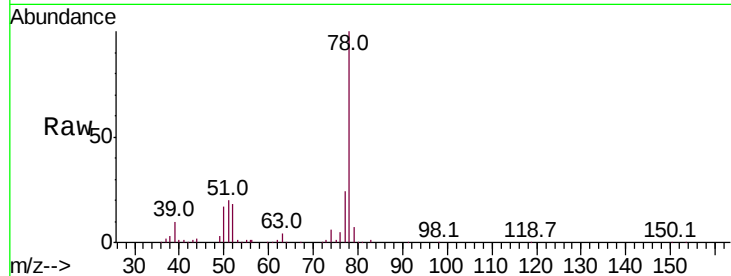


#36
Benzene
Concen: 1.299 ppbv
RT: 6.90
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId : SG-1
Acq: 24 Jan 2022 23:03

Tot Ion:
Ion Ratio
78 100
77 24.
50 17.

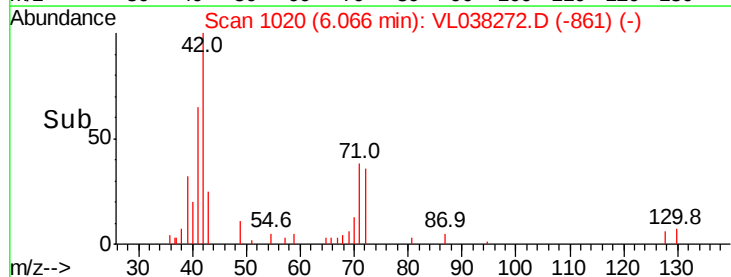
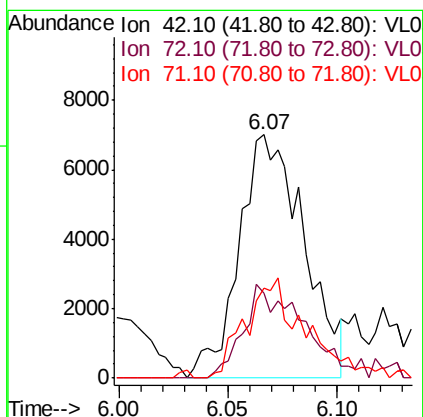
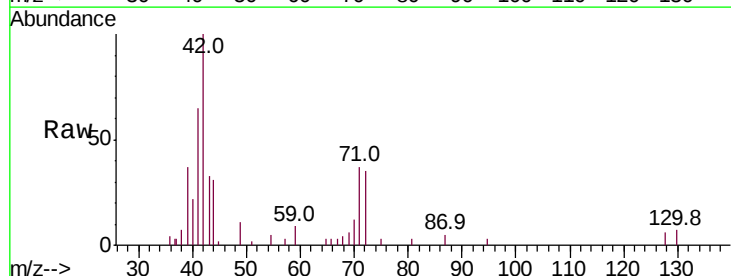
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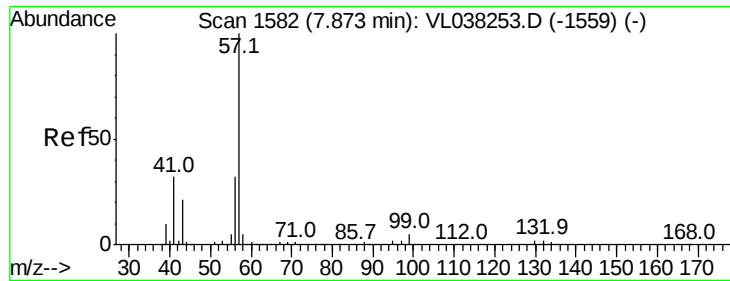
Reviewed By :Semsettin Yesilyurt 01/25/2022
Supervised By :Mahesh Dadoda 01/26/2022



#41
Tetrahydrofuran
Concen: 0.330 ppbv m
RT: 6.07 min Scan# 1020
Delta R.T. 0.01 min
Lab File: VL038272.D
Acq: 24 Jan 2022 23:03

Tgt Ion: 42 Resp: 14473
Ion Ratio Lower Upper
42 100
72 38.2 29.7 44.5
71 0.0 29.4 44.2#



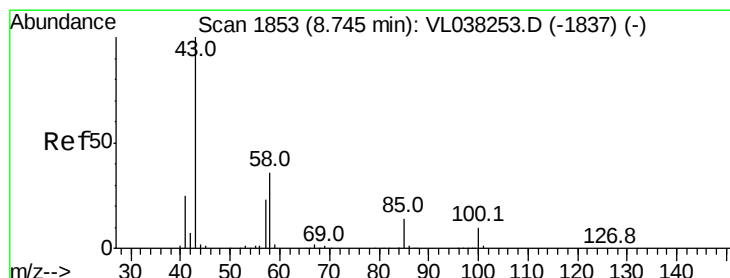
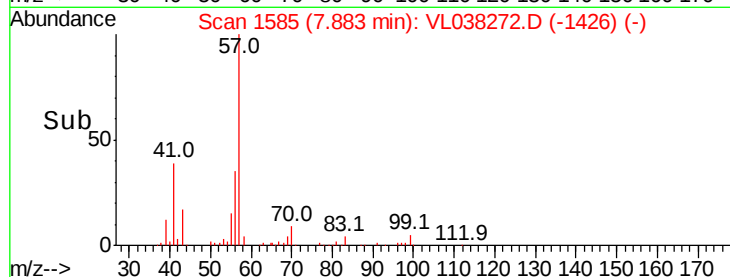
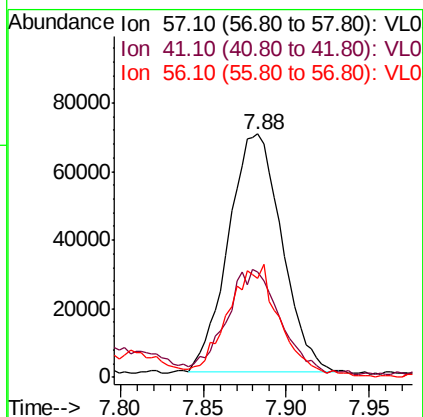
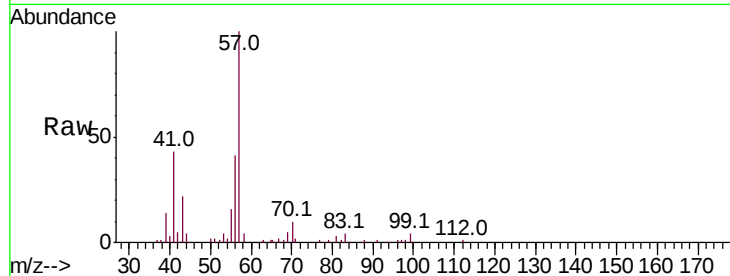


#44
 2,2,4-Trimethylpentane
 Concen: 0.499 ppbv
 RT: 7.88
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 24 Jan 2022 23:03

Tot Ion:
 Ion Ratio
 57 100
 41 46.
 56 46.

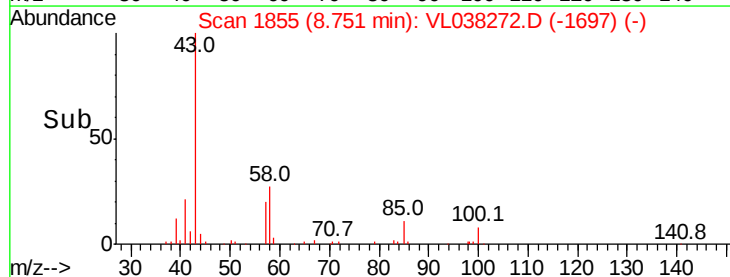
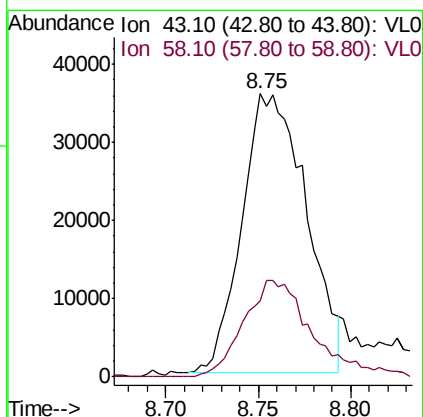
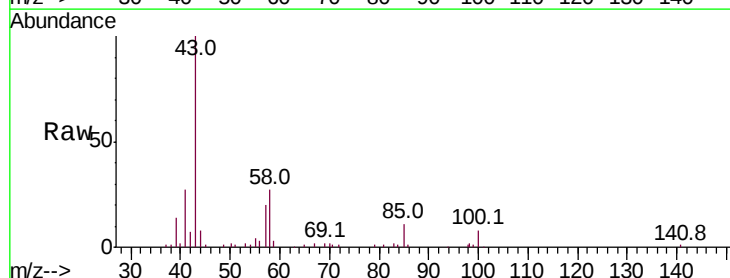
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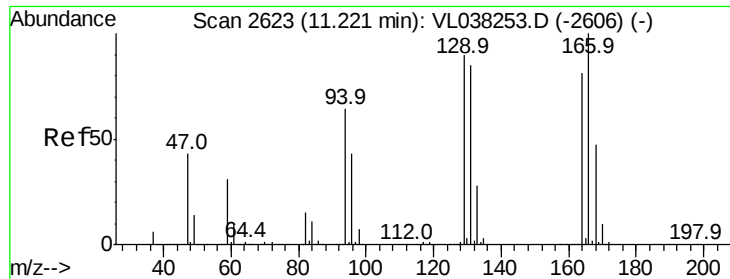
Reviewed By :Semsettin Yesilyurt 01/25/2022
 Supervised By :Mahesh Dadoda 01/26/2022



#50
 4-Methyl-2-Pentanone
 Concen: 0.742 ppbv
 RT: 8.75 min Scan# 1855
 Delta R.T. 0.01 min
 Lab File: VL038272.D
 Acq: 24 Jan 2022 23:03

Tgt Ion: 43 Resp: 86331
 Ion Ratio Lower Upper
 43 100
 58 38.1 28.2 42.4





#52

Tetrachloroethene

Concen: 25.043 ppbv

RT: 11.24

Delta R.T. MSVOA_L

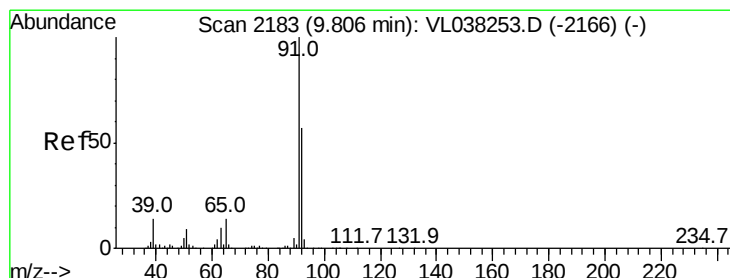
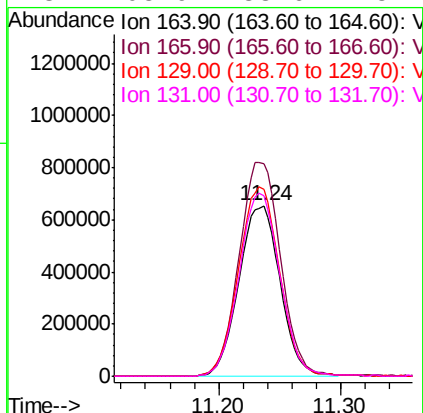
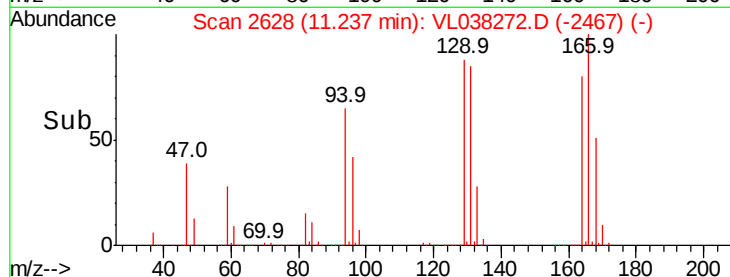
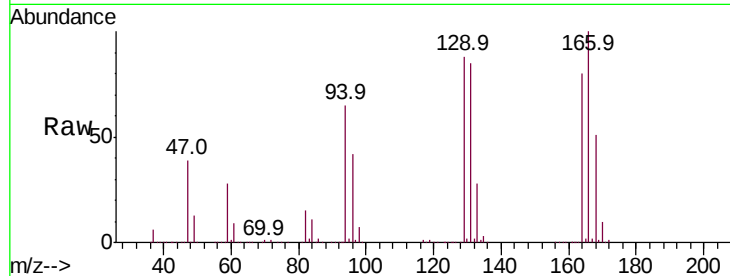
Lab File: ClientSampleId :

Acq: 24 Jan 2022 23:03

Tot Ion: 1
Ion Ratio
164 100
166 124.
129 109.
131 105.9 83.6 125.4

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Reviewed By :Semsettin Yesilyurt 01/25/2022
Supervised By :Mahesh Dadoda 01/26/2022



#53

Toluene

Concen: 13.778 ppbv

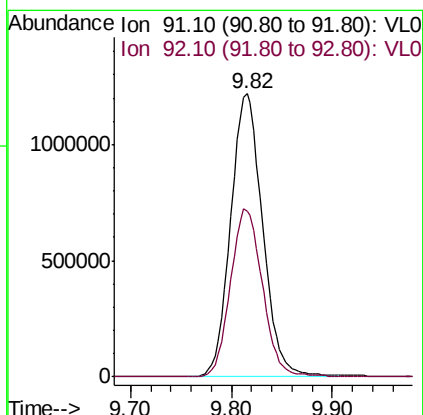
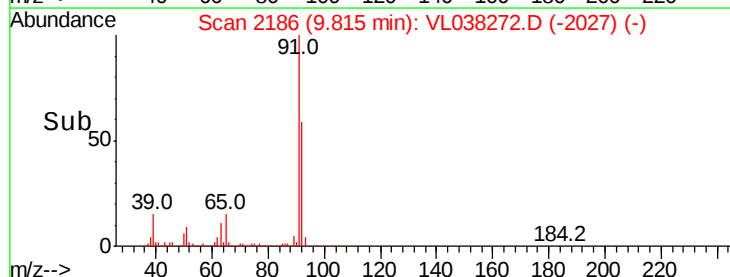
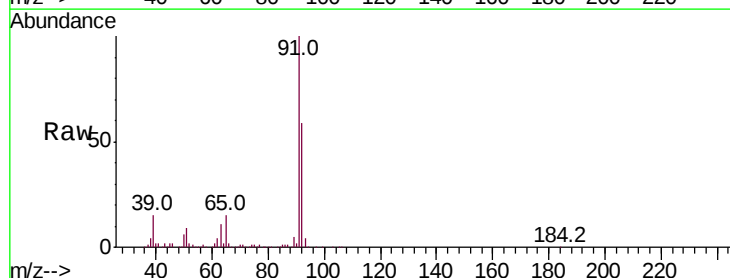
RT: 9.82 min Scan# 2186

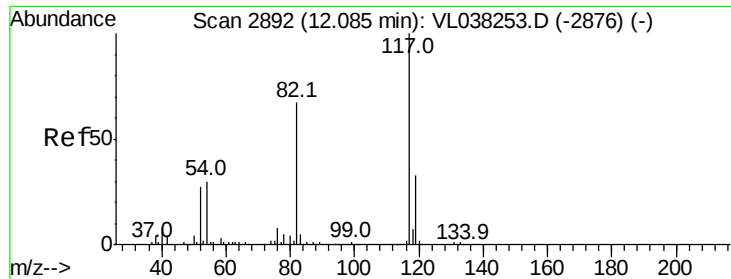
Delta R.T. 0.01 min

Lab File: VL038272.D

Acq: 24 Jan 2022 23:03

Tgt Ion: 91 Resp: 2690048
Ion Ratio Lower Upper
91 100
92 59.6 47.4 71.0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 24 Jan 2022 23:03

Tot Ion:1

Ion Rati

117 100

82 69.

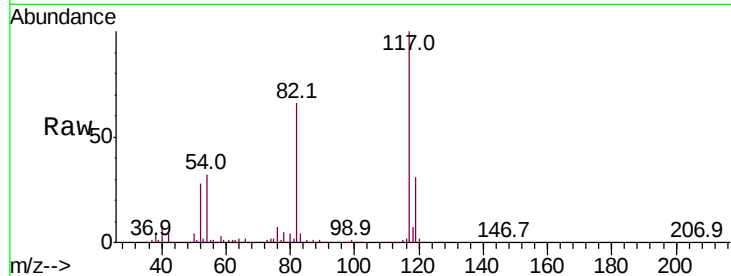
119 32.

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Reviewed By :Semsettin Yesilyurt 01/25/2022

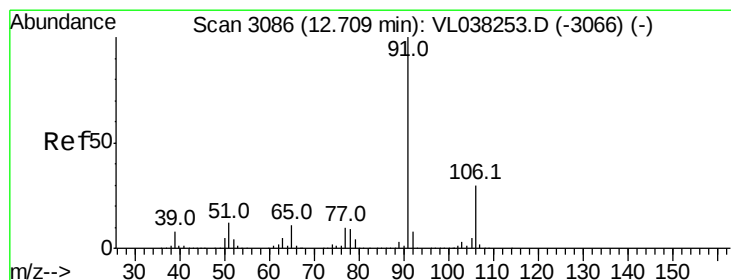
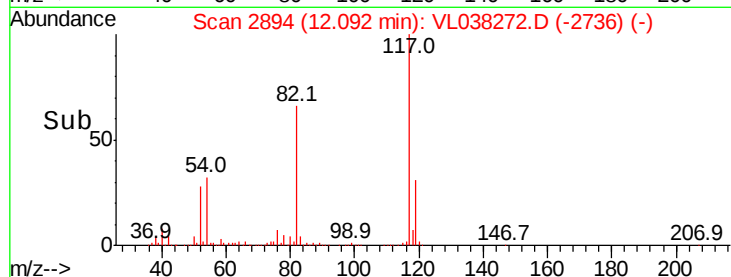
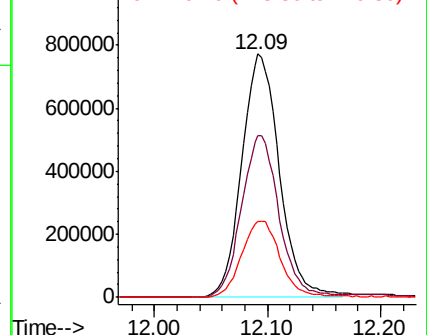
Supervised By :Mahesh Dadoda 01/26/2022



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: 1.458 ppbv

RT: 12.72 min Scan# 3089

Delta R.T. 0.01 min

Lab File: VL038272.D

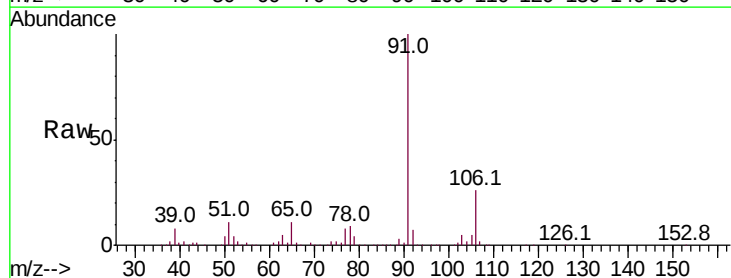
Acq: 24 Jan 2022 23:03

Tgt Ion: 91 Resp: 382803

Ion Ratio Lower Upper

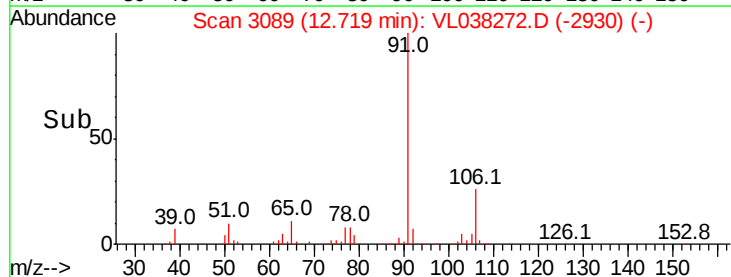
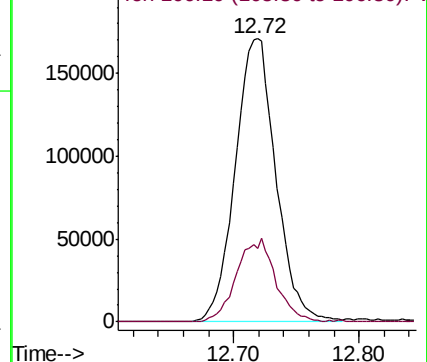
91 100

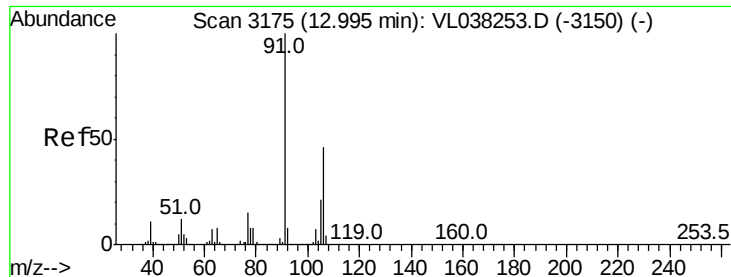
106 26.2 24.1 36.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



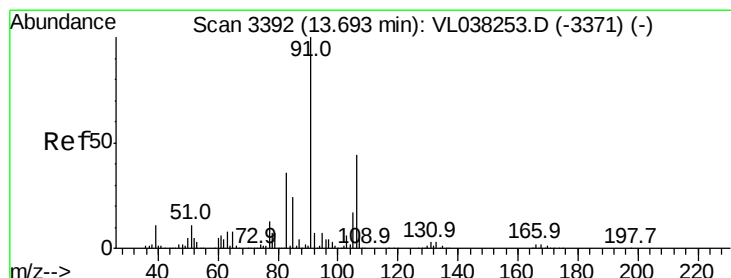
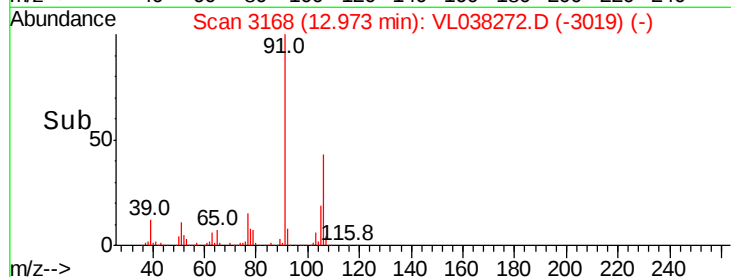
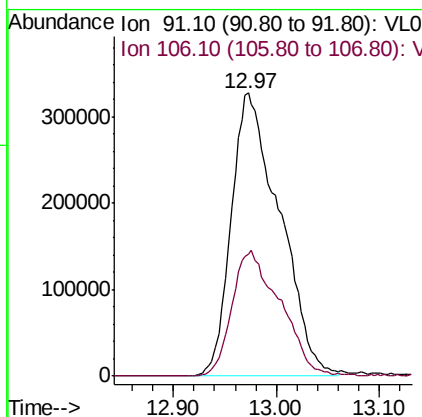
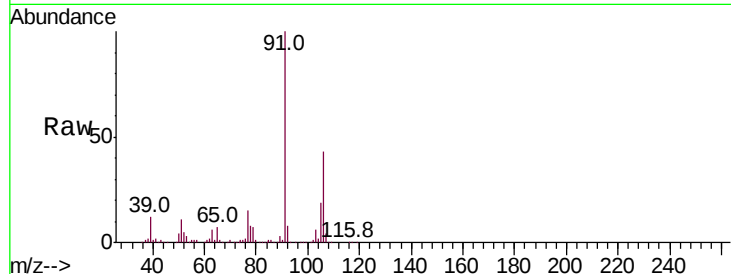


#59
m/p-Xylene
Concen: 4.745 ppbv
RT: 12.97 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 24 Jan 2022 23:03

Tot Ion:
Ion Ratio
91 100
106 45.

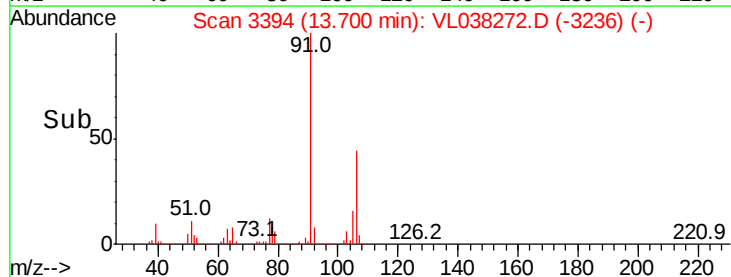
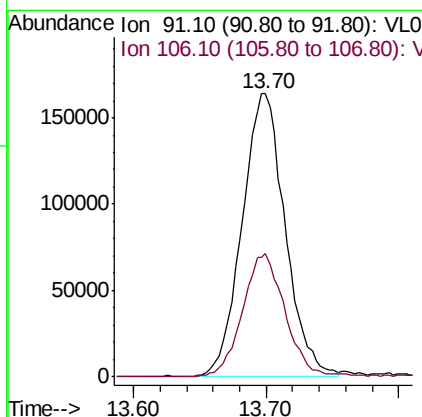
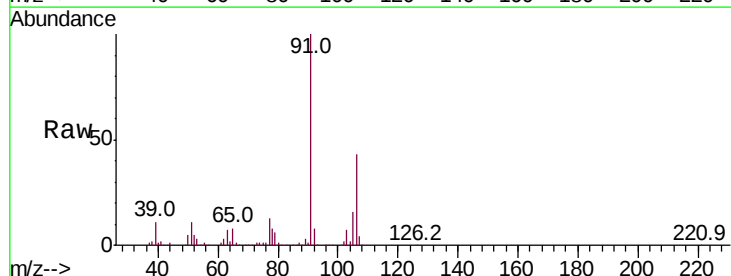
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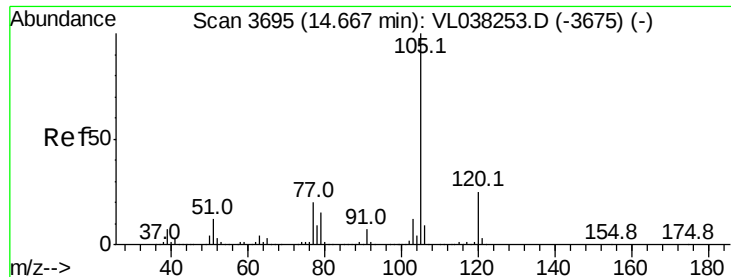
Reviewed By :Semsettin Yesilyurt 01/25/2022
Supervised By :Mahesh Dadoda 01/26/2022



#60
o-Xylene
Concen: 1.772 ppbv
RT: 13.70 min Scan# 3394
Delta R.T. 0.01 min
Lab File: VL038272.D
Acq: 24 Jan 2022 23:03

Tgt Ion: 91 Resp: 369100
Ion Ratio Lower Upper
91 100
106 43.4 22.2 66.6





#62

Isopropylbenzene

Concen: 0.106 ppbv m

RT: 14.67

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 24 Jan 2022 23:03

Tot Ion:1

Ion Ratio

105 100

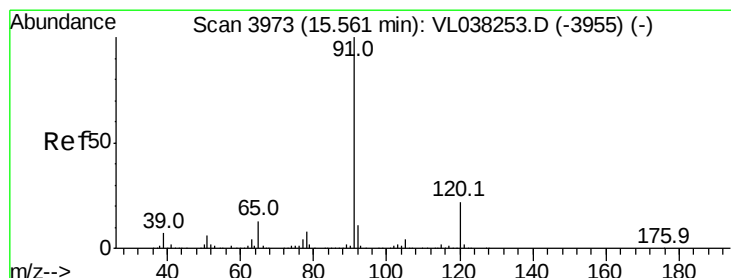
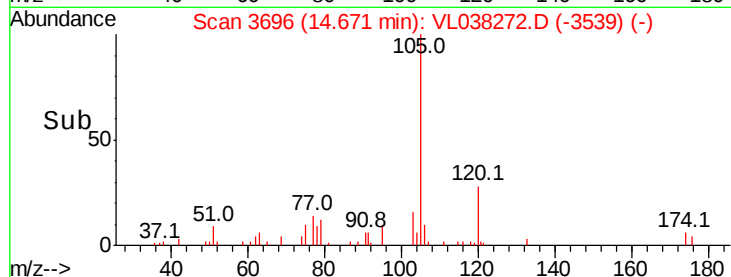
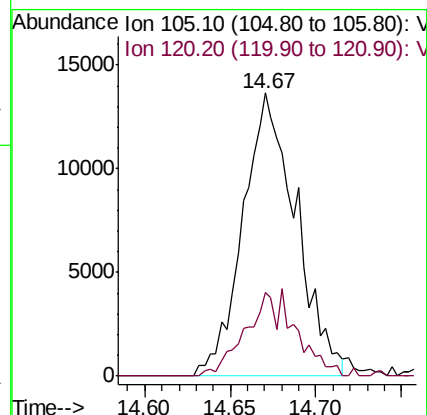
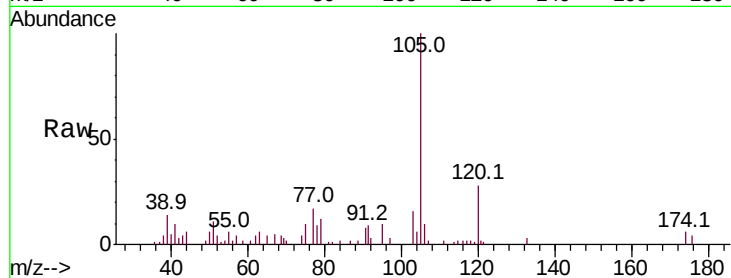
120 0.

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Reviewed By :Semsettin Yesilyurt 01/25/2022

Supervised By :Mahesh Dadoda 01/26/2022



#64

n-propylbenzene

Concen: 0.265 ppbv m

RT: 15.57 min Scan# 3975

Delta R.T. 0.01 min

Lab File: VL038272.D

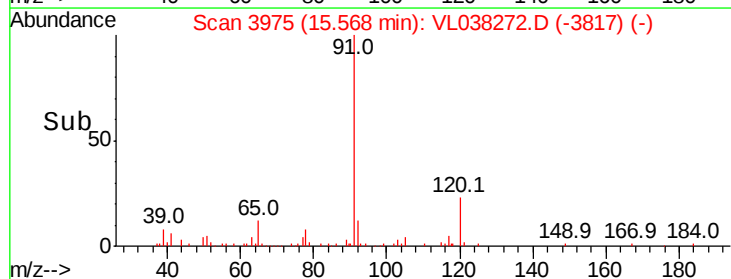
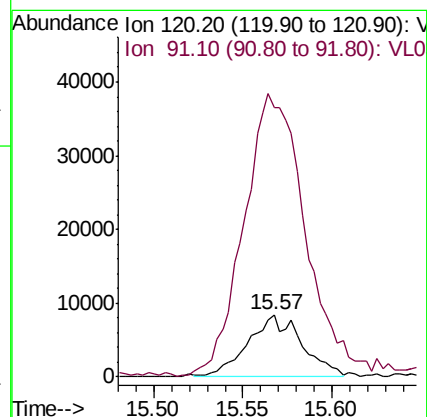
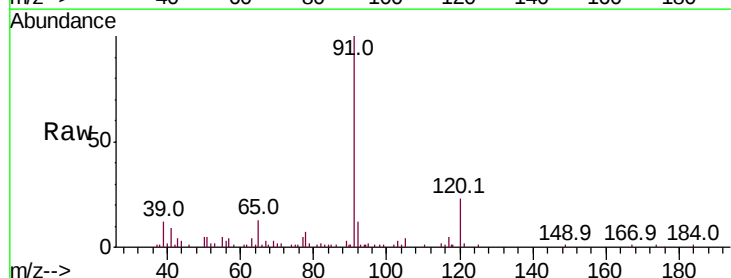
Acq: 24 Jan 2022 23:03

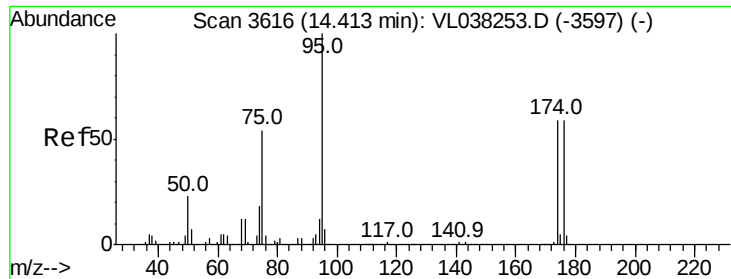
Tgt Ion:120 Resp: 17708

Ion Ratio Lower Upper

120 100

91 542.3 390.8 586.2



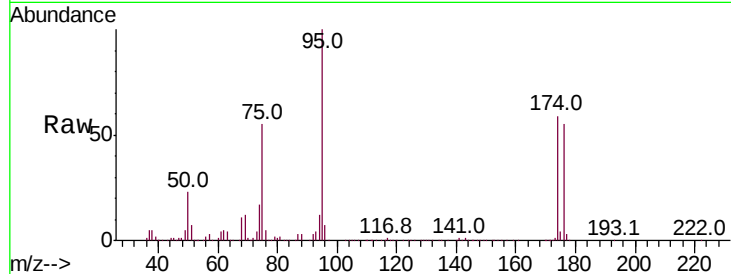


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.973 ppbv
 RT: 14.42
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId : SG-1
 Acq: 24 Jan 2022 23:03

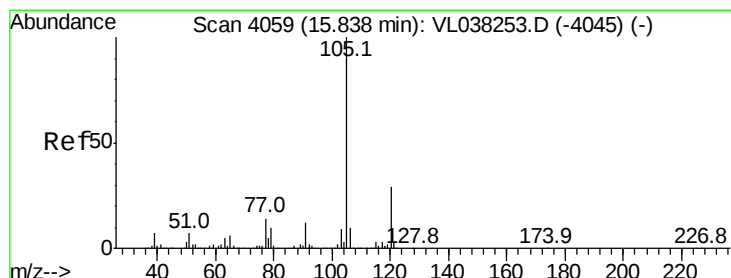
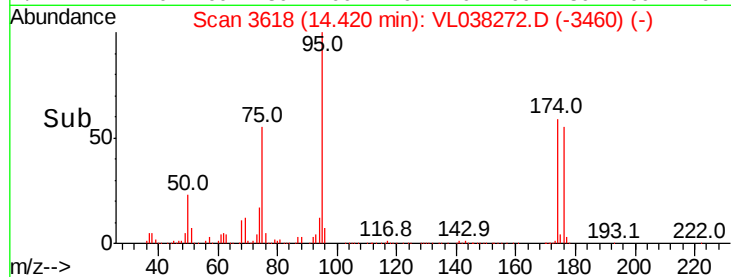
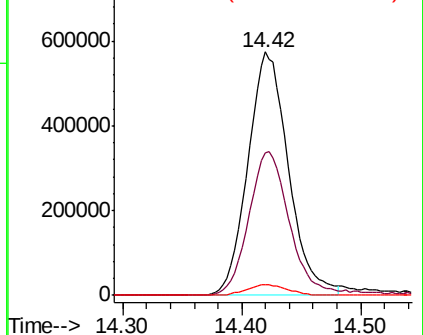
Tot Ion:
 Ion Rati
 95 100
 174 61.
 175 4.

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Reviewed By :Semsettin Yesilyurt 01/25/2022
 Supervised By :Mahesh Dadoda 01/26/2022

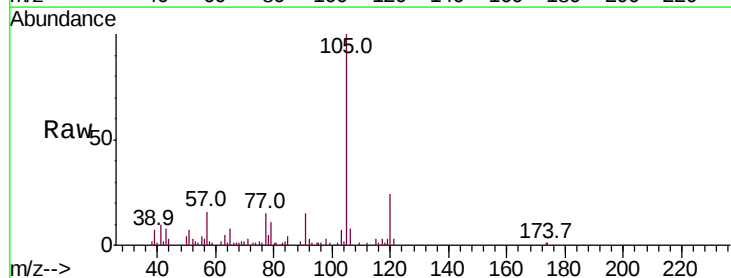


Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V

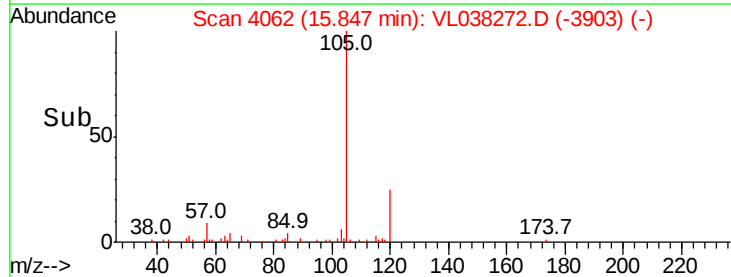
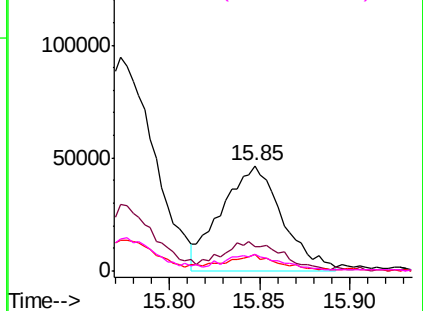


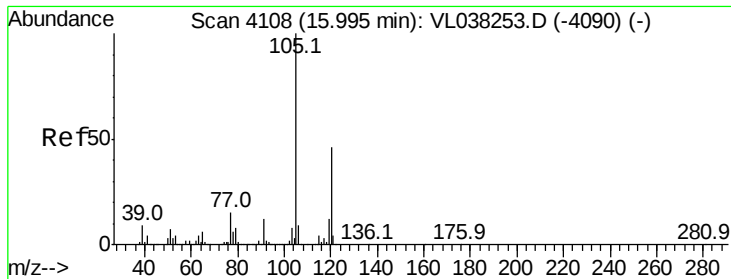
#72
 4-Ethyltoluene
 Concen: 0.502 ppbv m
 RT: 15.85 min Scan# 4062
 Delta R.T. 0.01 min
 Lab File: VL038272.D
 Acq: 24 Jan 2022 23:03

Tgt Ion:105 Resp: 109435
 Ion Ratio Lower Upper
 105 100
 120 30.8 23.8 35.8
 91 13.6 10.2 15.4
 77 13.6 11.7 17.5



Abundance Ion 105.10 (104.80 to 105.80): V
 Ion 120.20 (119.90 to 120.90): V
 Ion 91.10 (90.80 to 91.80): VL0
 Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 0.470 ppbv m

RT: 16.00

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 24 Jan 2022 23:03

Tot Ion:1

Ion Rati

105 100

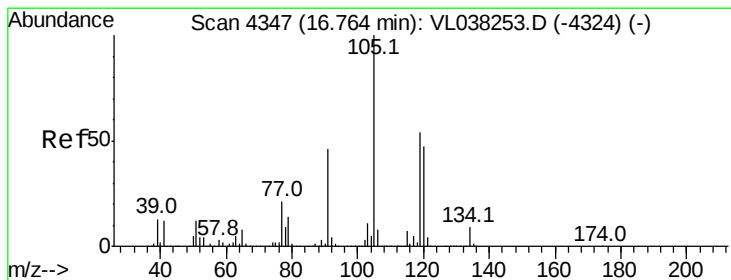
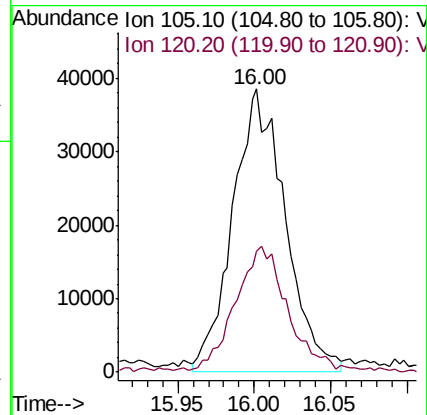
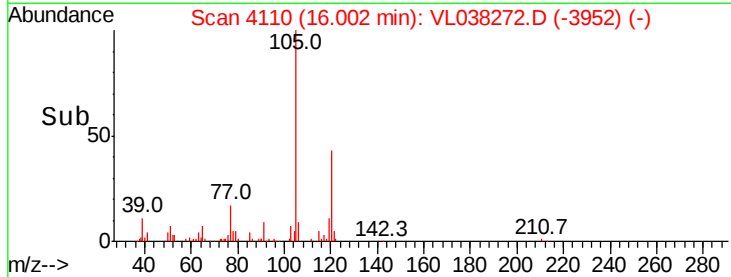
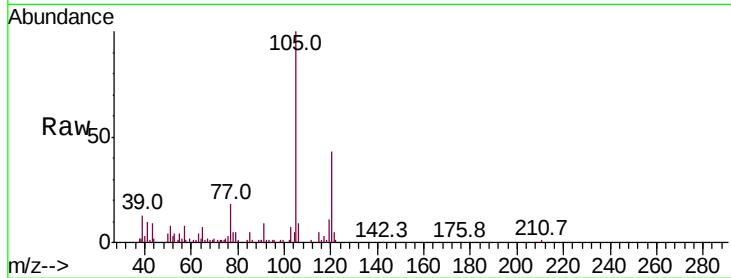
120 42.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/25/2022

Supervised By :Mahesh Dadoda 01/26/2022



#74

1,2,4-Trimethylbenzene

Concen: 1.295 ppbv

RT: 16.77 min Scan# 4348

Delta R.T. 0.00 min

Lab File: VL038272.D

Acq: 24 Jan 2022 23:03

Tgt Ion:105 Resp: 267374

Ion Ratio Lower Upper

105 100

120 41.7 37.2 55.8

91 11.6 36.6 55.0#

77 14.5 16.9 25.3#

