

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040722\
 Data File : VL038852.D
 Acq On : 7 Apr 2022 22:10
 Operator : SY/AP
 Sample : N2273-05
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 1160-1-SG-2

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/09/2022
 Supervised By : Mahesh Dadoda 04/11/2022

Quant Time: Apr 08 09:26:06 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	5.71	49	1262357	10.00	ppbv	0.05
33) 1,4-Difluorobenzene	7.21	114	3108758	10.00	ppbv	0.04
55) Chlorobenzene-d5	12.12	117	2781134	10.00	ppbv	0.04

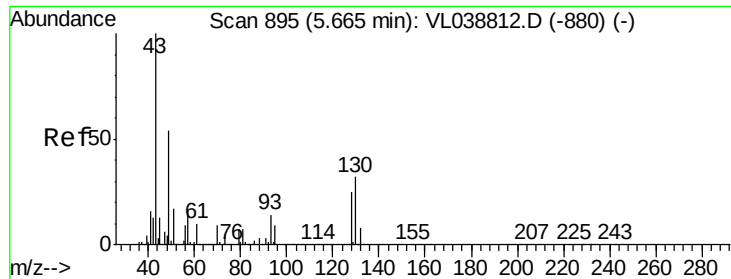
System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2183260	10.35	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.50%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.08	85	44218m	0.247	ppbv
3) Chlorodifluoromethane	3.01	51	52139m	0.338	ppbv
4) Chloromethane	3.17	50	35039	0.439	ppbv # 96
9) Propene	3.05	41	5896688m	72.343	ppbv
10) Heptane	8.15	43	875266	4.263	ppbv 97
11) Trichlorofluoromethane	3.98	101	40481	0.281	ppbv 84
13) Ethanol	3.63	45	1539846	310.862	ppbv # 100
15) Acetone	3.88	43	41537049	330.501	ppbv # 53
17) tert-Butyl alcohol	4.34	59	17845m	0.158	ppbv
19) Isopropyl Alcohol	3.99	45	1168825	18.196	ppbv # 100
20) Methylene Chloride	4.38	84	250459	5.495	ppbv 96
26) Hexane	5.72	57	515455	3.551	ppbv # 56
30) Cyclohexane	7.16	84	191216	1.495	ppbv 95
34) 2-Butanone	5.28	43	349344	2.844	ppbv 98
35) Carbon Tetrachloride	7.05	117	12340m	0.066	ppbv
36) Benzene	6.93	78	275490	0.974	ppbv 96
44) 2,2,4-Trimethylpentane	7.90	57	1615343	3.374	ppbv # 77
50) 4-Methyl-2-Pentanone	8.77	43	1067766	3.864	ppbv 100
52) Tetrachloroethene	11.26	164	156716m	1.586	ppbv
53) Toluene	9.84	91	1902226	5.827	ppbv 100
58) Ethyl Benzene	12.74	91	2406384	5.790	ppbv 93
59) m/p-Xylene	13.00	91	6947427	19.898	ppbv 98
60) o-Xylene	13.72	91	2422838	7.416	ppbv 98
61) Styrene	13.56	104	69578	0.350	ppbv 92
62) Isopropylbenzene	14.70	105	147724m	0.301	ppbv
65) tert-Butylbenzene	16.79	119	188873m	0.434	ppbv
72) 4-Ethyltoluene	15.87	105	786207	2.015	ppbv 96
73) 1,3,5-Trimethylbenzene	16.02	105	678748	1.937	ppbv 88
74) 1,2,4-Trimethylbenzene	16.79	105	1750014	4.724	ppbv # 72

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.71

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Apr 2022 22:10

Tot Ion:

Ion Ratio

49 100

128 46.

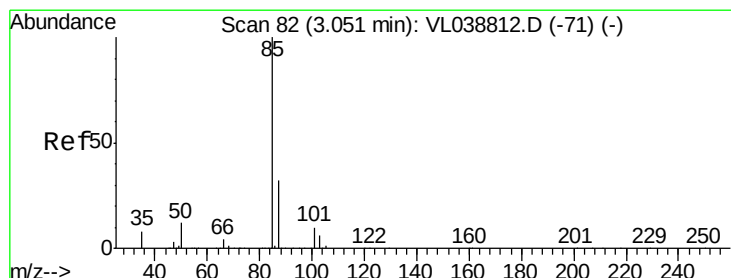
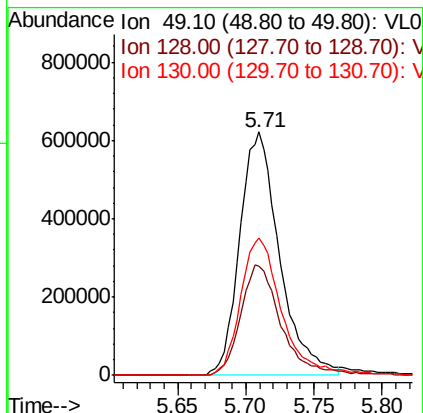
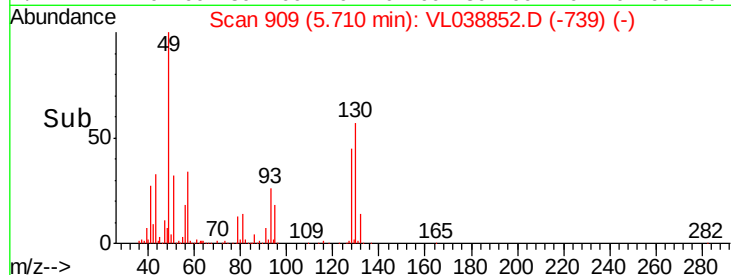
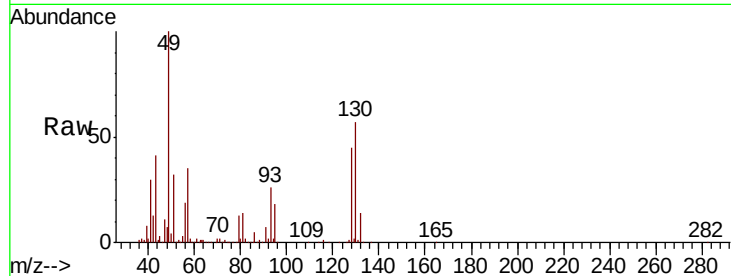
130 58.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/09/2022

Supervised By :Mahesh Dadoda 04/11/2022



#2

Dichlorodifluoromethane

Concen: 0.247 ppbv m

RT: 3.08 min Scan# 90

Delta R.T. 0.03 min

Lab File: VL038852.D

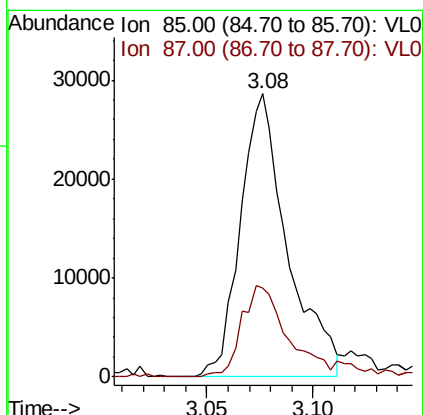
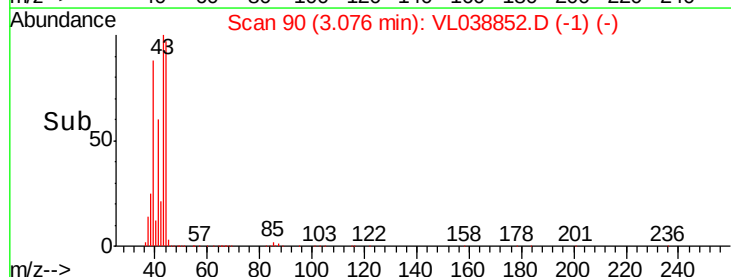
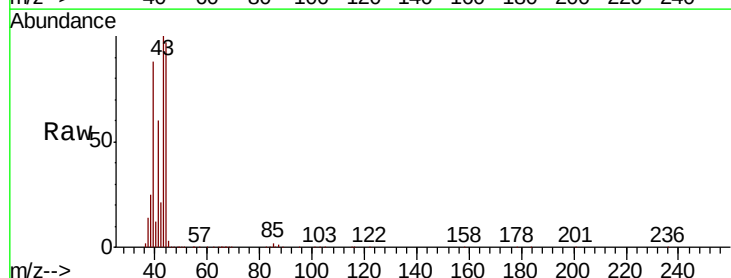
Acq: 7 Apr 2022 22:10

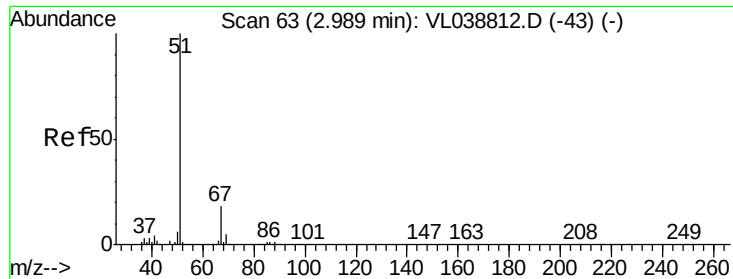
Tgt Ion: 85 Resp: 44218

Ion Ratio Lower Upper

85 100

87 31.4 25.9 38.9





#3

Chlorodifluoromethane

Concen: 0.338 ppbv m

RT: 3.01 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 7 Apr 2022 22:10

Tot Ion:

Ion Ratio

51 100

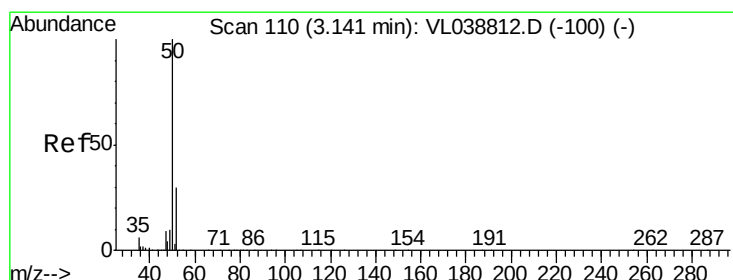
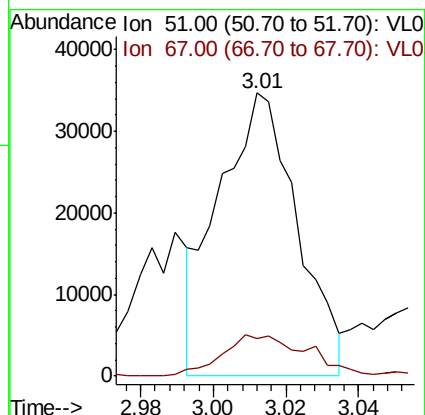
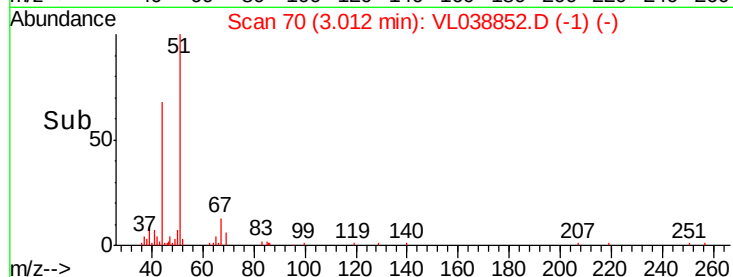
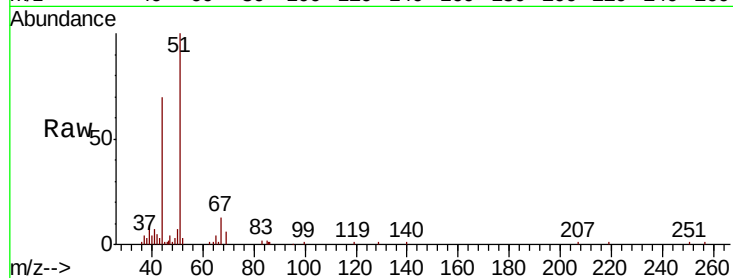
67 17.

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Reviewed By :Semsettin Yesilyurt 04/09/2022

Supervised By :Mahesh Dadoda 04/11/2022



#4

Chloromethane

Concen: 0.439 ppbv

RT: 3.17 min Scan# 118

Delta R.T. 0.03 min

Lab File: VL038852.D

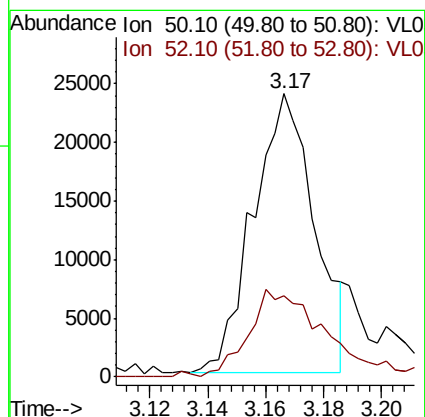
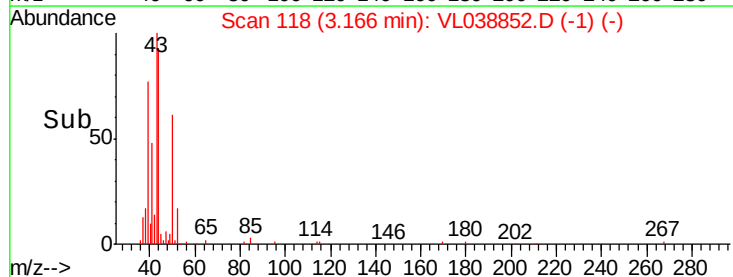
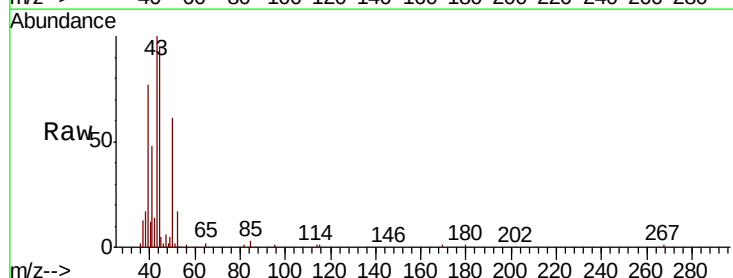
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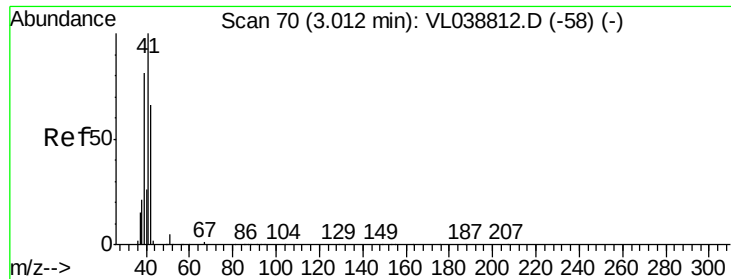
Tgt Ion: 50 Resp: 35039

Ion Ratio Lower Upper

50 100

52 28.0 24.3 36.5





#9

Propene

Concen: 72.343 ppbv m

RT: 3.05 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Apr 2022 22:10

Tot Ion:

Ion Ratio

41 100

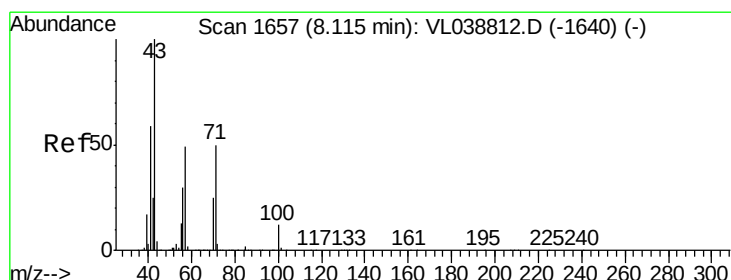
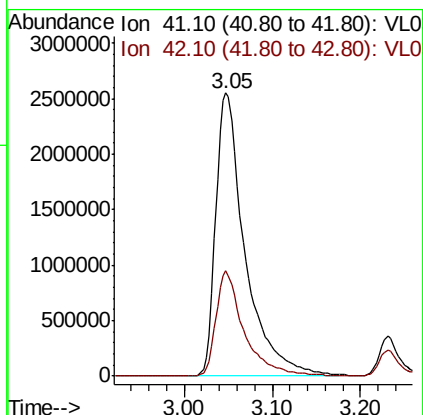
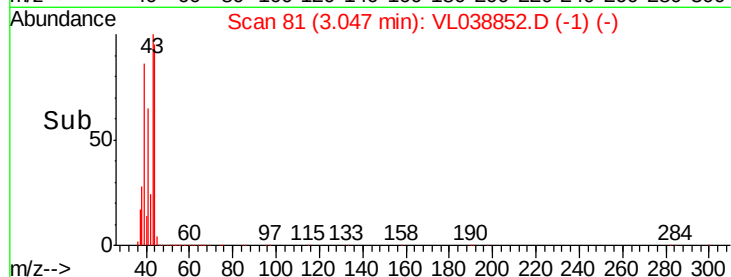
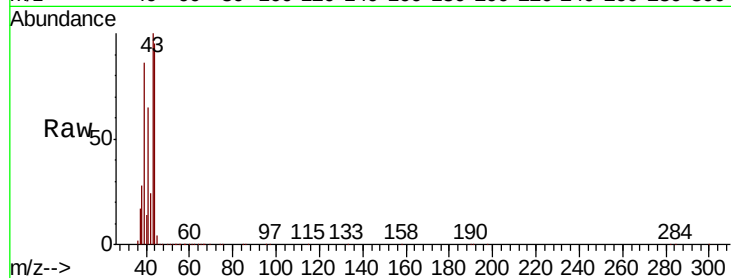
42 6.

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Reviewed By :Semsettin Yesilyurt 04/09/2022

Supervised By :Mahesh Dadoda 04/11/2022



#10

Heptane

Concen: 4.263 ppbv

RT: 8.15 min Scan# 1669

Delta R.T. 0.04 min

Lab File: VL038852.D

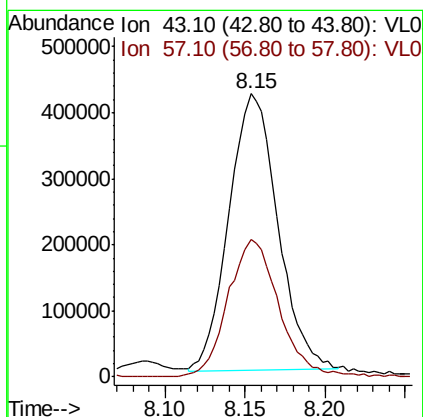
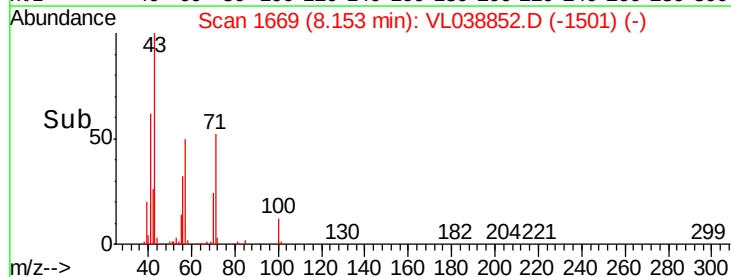
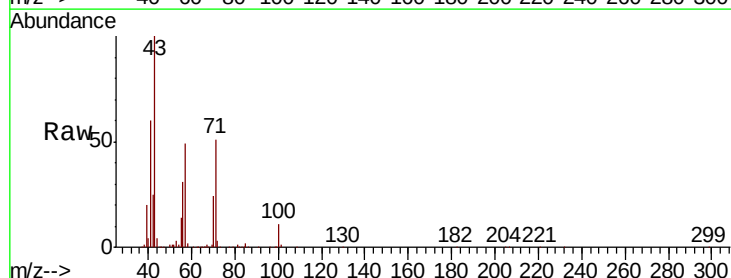
Acq: 7 Apr 2022 22:10

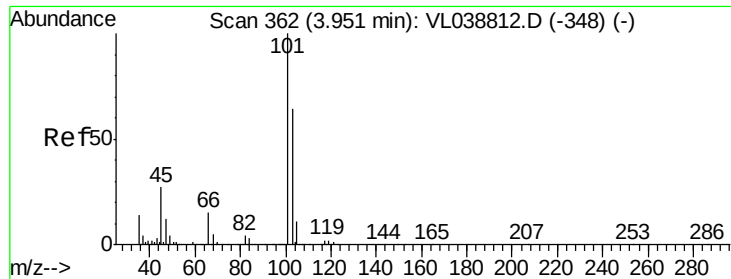
Tgt Ion: 43 Resp: 875266

Ion Ratio Lower Upper

43 100

57 51.4 39.3 58.9



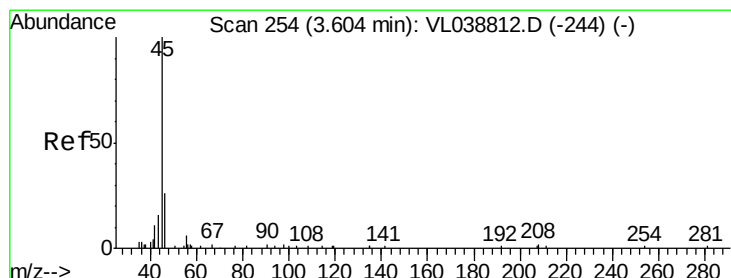
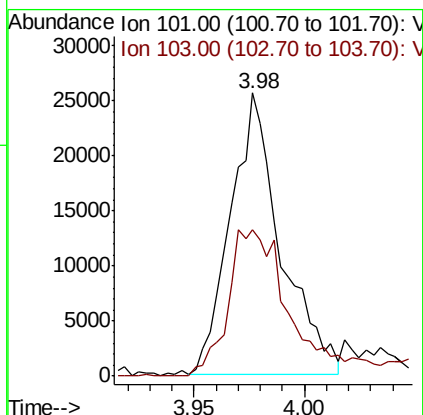
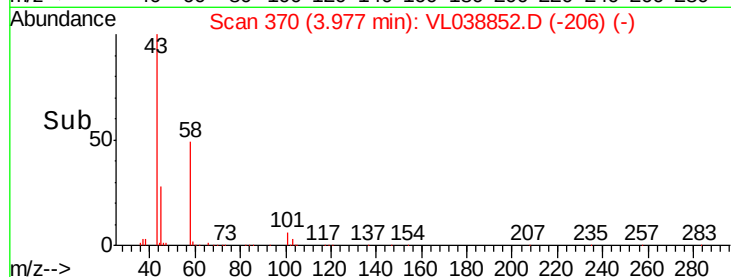
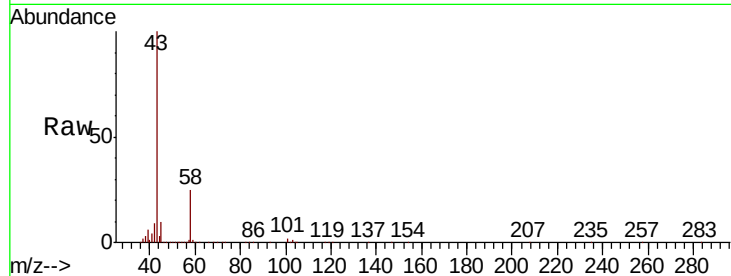


#11
 Trichlorofluoromethane
 Concen: 0.281 ppbv
 RT: 3.98
 Instrument : MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 7 Apr 2022 22:10

Tot Ion:1
 Ion Rati
 101 100
 103 51.

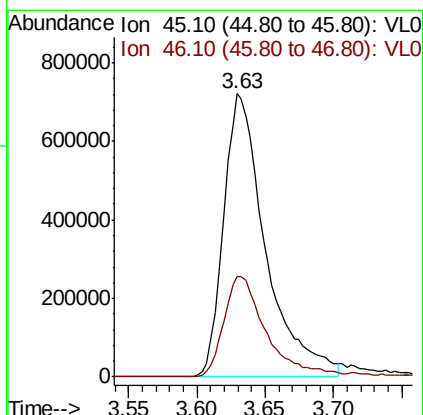
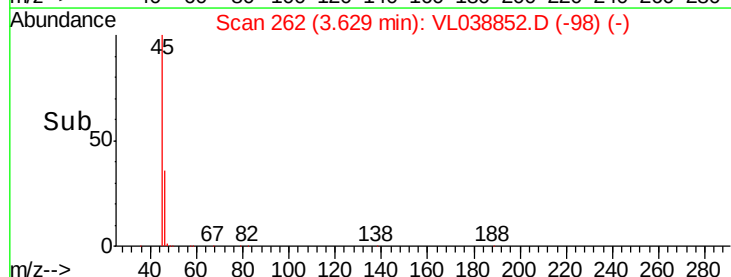
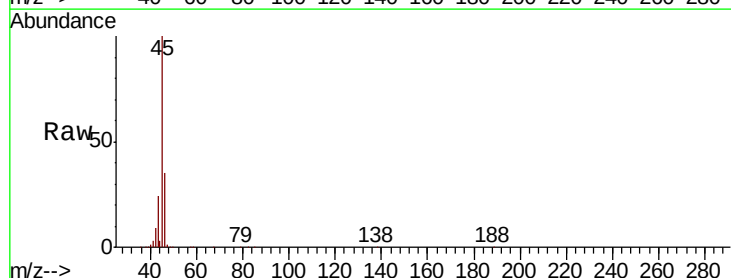
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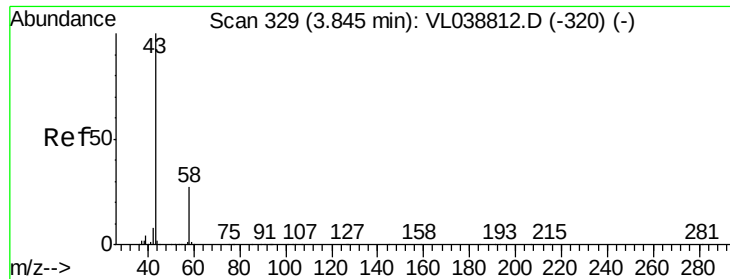
Reviewed By :Semsettin Yesilyurt 04/09/2022
 Supervised By :Mahesh Dadoda 04/11/2022



#13
 Ethanol
 Concen: 310.862 ppbv
 RT: 3.63 min Scan# 262
 Delta R.T. 0.03 min
 Lab File: VL038852.D
 Acq: 7 Apr 2022 22:10

Tgt Ion: 45 Resp: 1539846
 Ion Ratio Lower Upper
 45 100
 46 37.6 0.0 0.0#



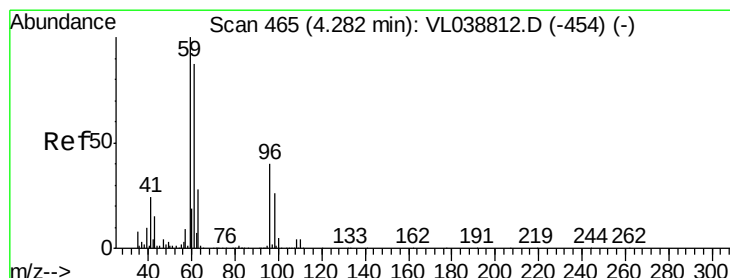
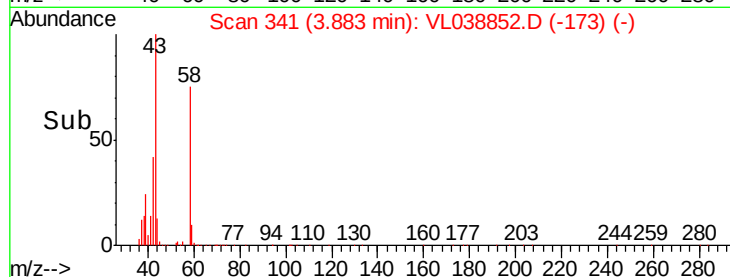
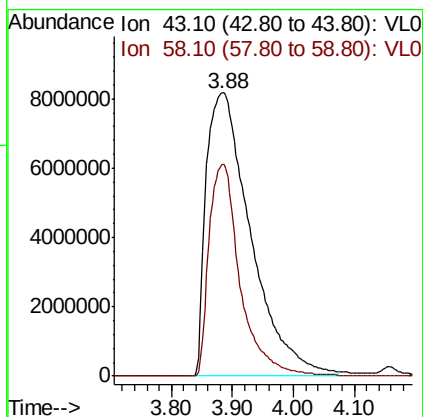
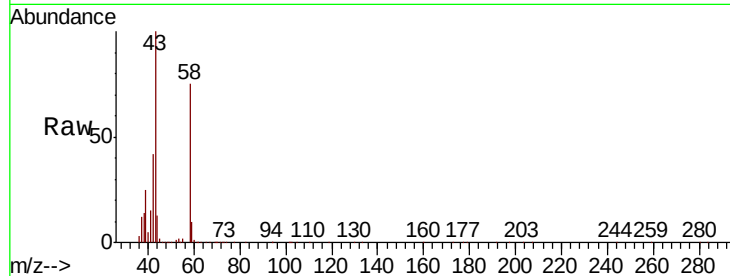


#15
Acetone
Concen: 330.501 ppbv
RT: 3.88
Instrument : MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
1160-1-SG-2
Acq: 7 Apr 2022 22:10

Tot Ion:
Ion Ratio
43 100
58 52.

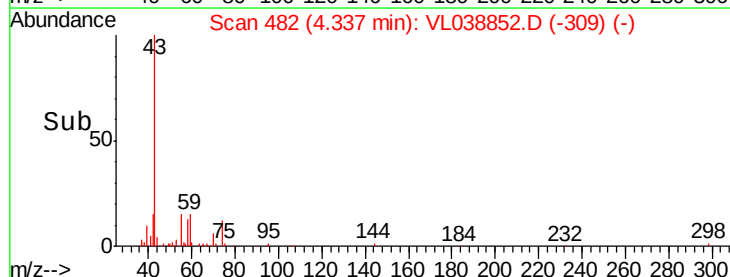
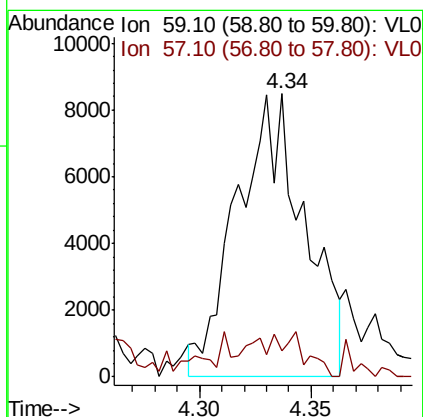
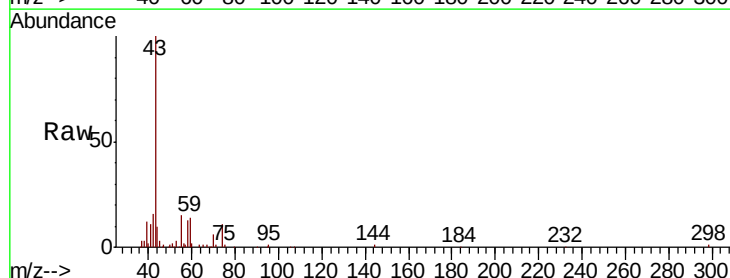
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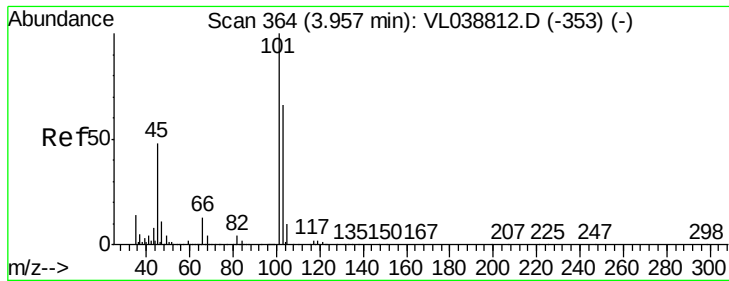
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#17
tert-Butyl alcohol
Concen: 0.158 ppbv m
RT: 4.34 min Scan# 482
Delta R.T. 0.05 min
Lab File: VL038852.D
Acq: 7 Apr 2022 22:10

Tgt Ion: 59 Resp: 17845
Ion Ratio Lower Upper
59 100
57 346.3 8.5 12.7#



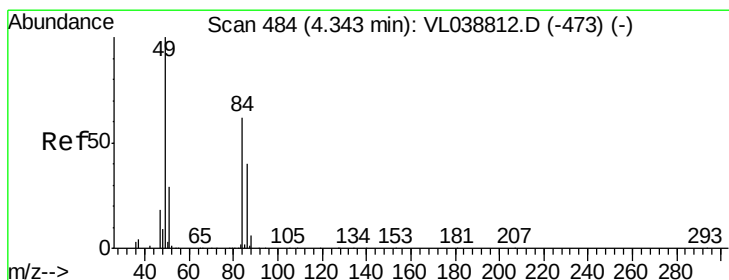
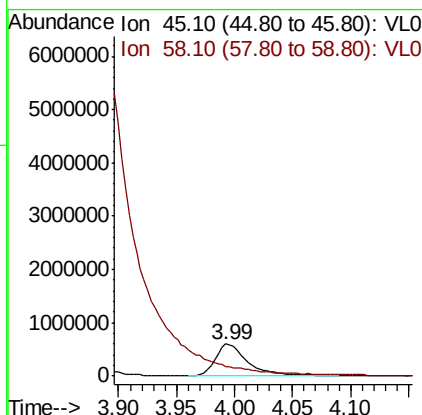
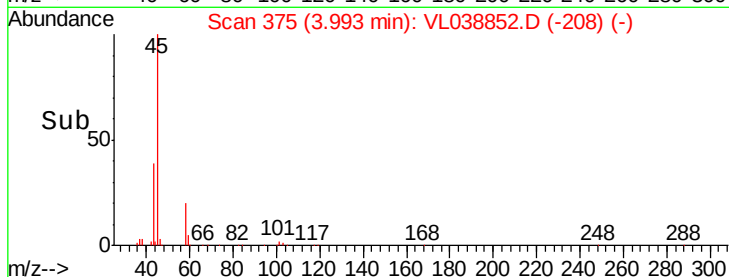
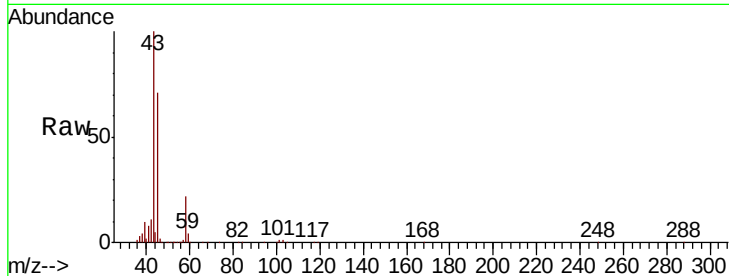


#19
Isopropyl Alcohol
Concen: 18.196 ppbv
RT: 3.99
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 7 Apr 2022 22:10

Tot Ion:
Ion Ratio
45 100
58 0.

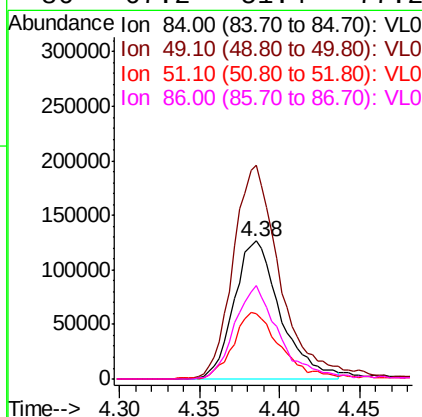
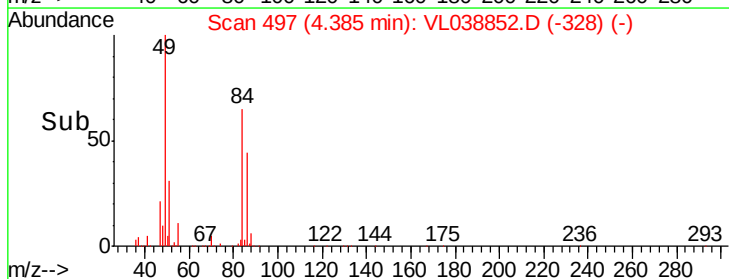
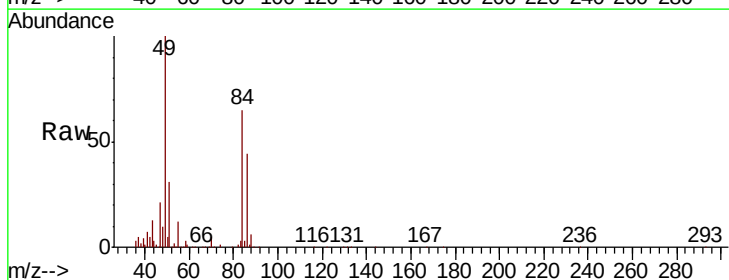
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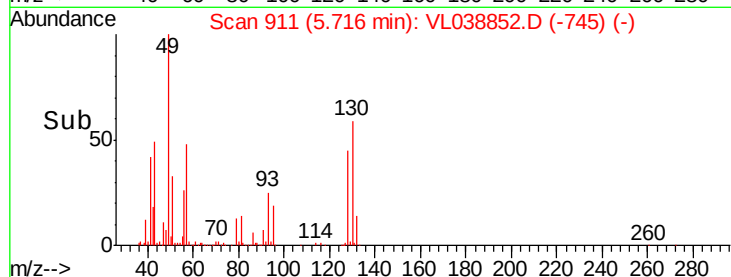
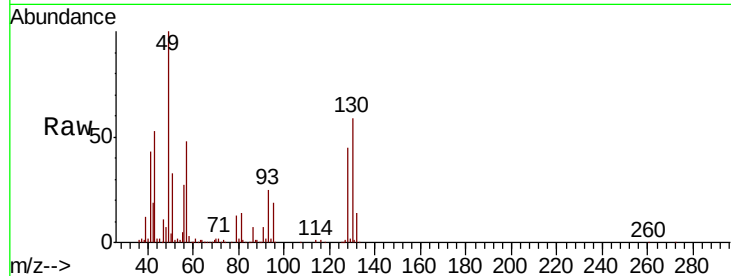
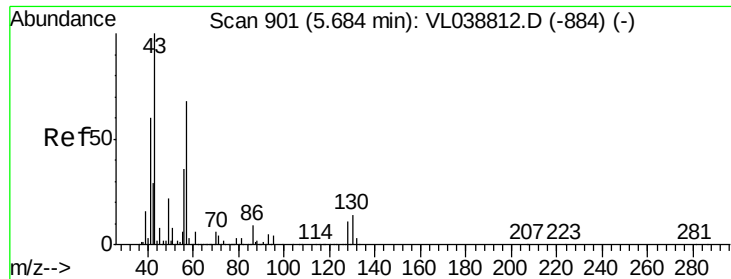
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#20
Methylene Chloride
Concen: 5.495 ppbv
RT: 4.38 min Scan# 497
Delta R.T. 0.04 min
Lab File: VL038852.D
Acq: 7 Apr 2022 22:10

Tgt Ion: 84 Resp: 250459
Ion Ratio Lower Upper
84 100
49 154.4 129.4 194.0
51 46.8 37.4 56.2
86 67.2 51.4 77.2



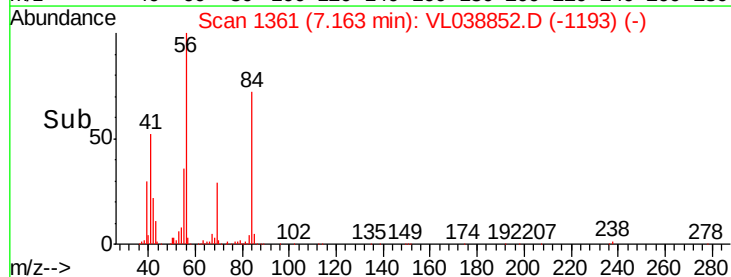
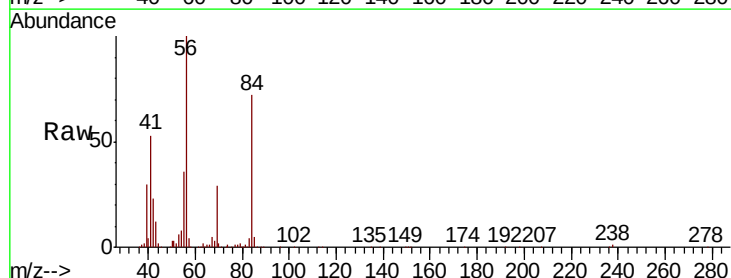
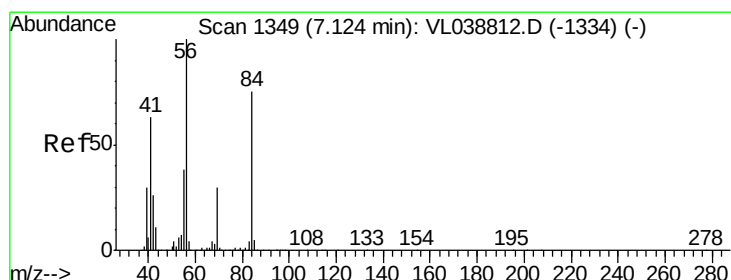
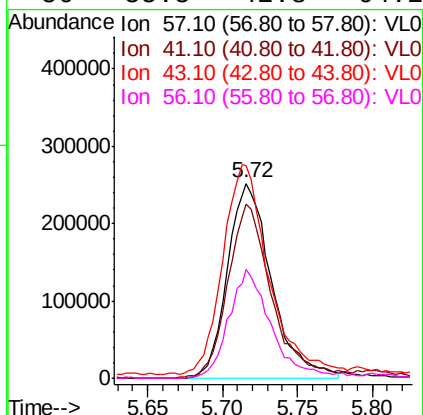


#26
Hexane
Concen: 3.551 ppbv
RT: 5.72
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Apr 2022 22:10

Tot Ion: 57.10 (56.80 to 57.80): VL0
Ion Ratio: 57 100, 41 90.0, 43 116.0, 56 55.5, 42.8, 64.2

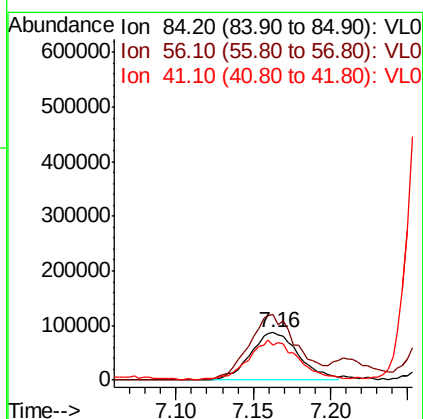
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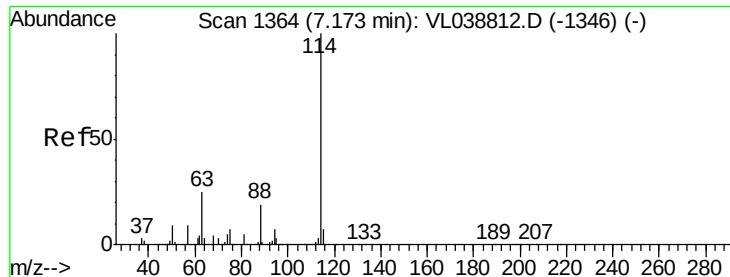
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#30
Cyclohexane
Concen: 1.495 ppbv
RT: 7.16 min Scan# 1361
Delta R.T. 0.04 min
Lab File: VL038852.D
Acq: 7 Apr 2022 22:10

Tgt Ion: 84 Resp: 191216
Ion Ratio Lower Upper
84 100
56 136.2 114.4 171.6
41 81.9 69.0 103.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.21

Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 7 Apr 2022 22:10

Tot Ion:1

Ion Rati

114 100

63 26.

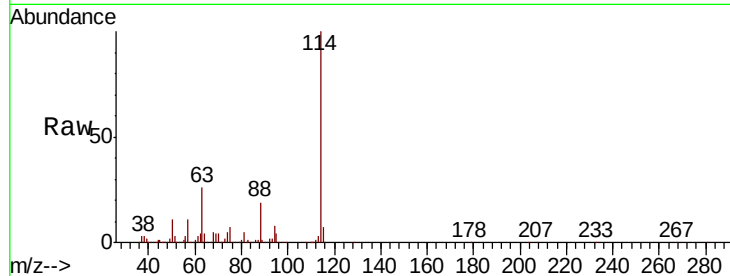
88 18.

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Reviewed By :Semsettin Yesilyurt 04/09/2022

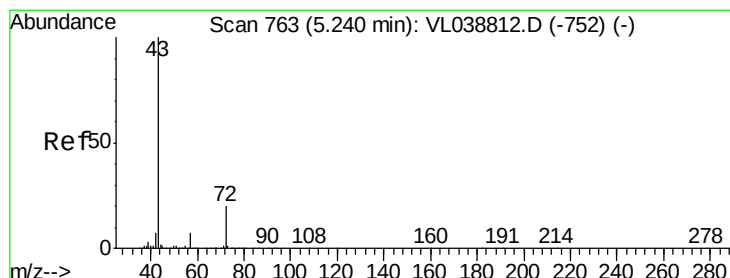
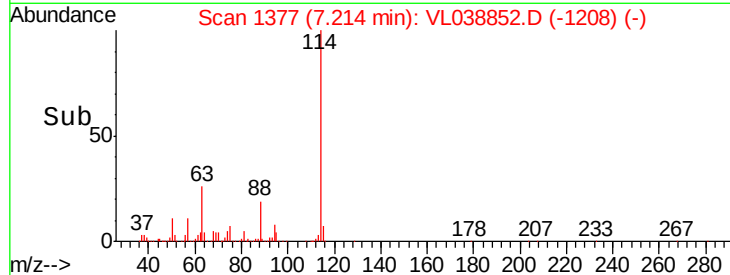
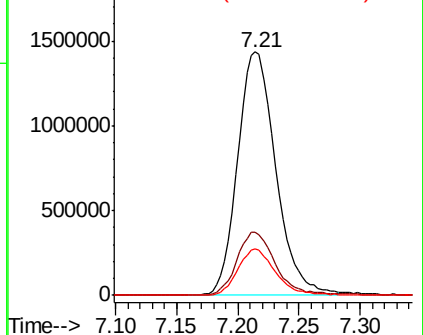
Supervised By :Mahesh Dadoda 04/11/2022



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: 2.844 ppbv

RT: 5.28 min Scan# 775

Delta R.T. 0.04 min

Lab File: VL038852.D

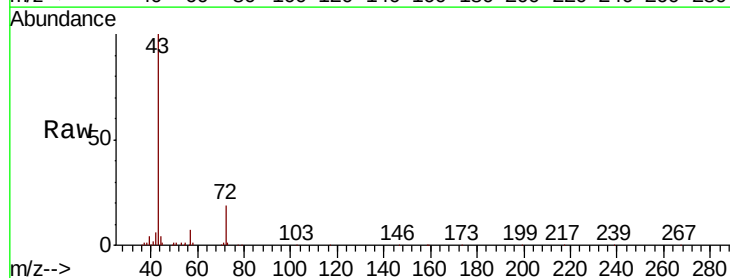
Acq: 7 Apr 2022 22:10

Tgt Ion: 43 Resp: 349344

Ion Ratio Lower Upper

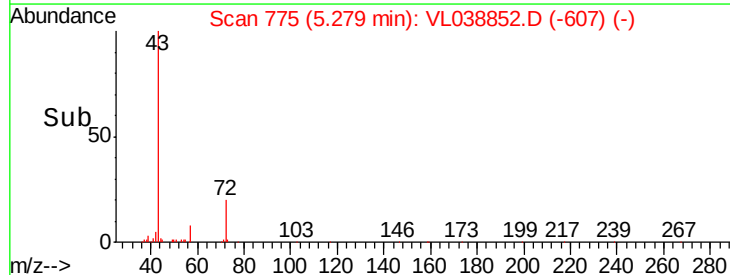
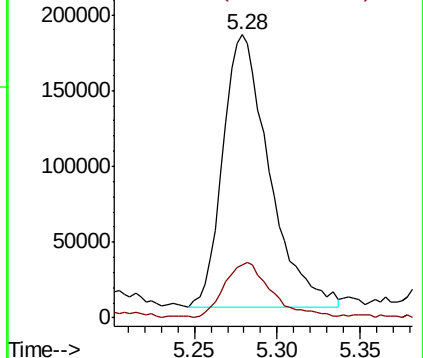
43 100

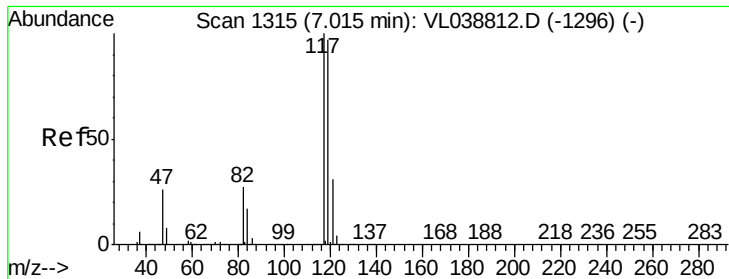
72 22.1 16.9 25.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



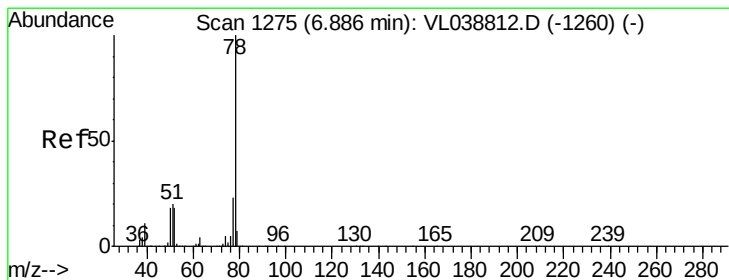
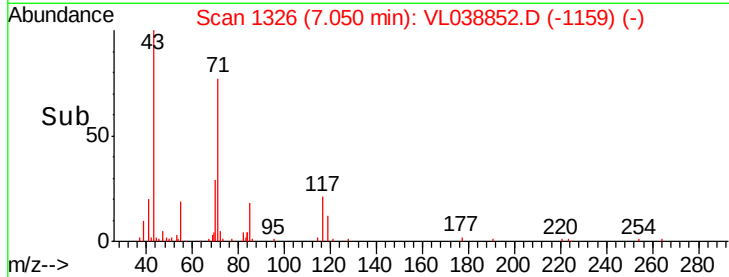
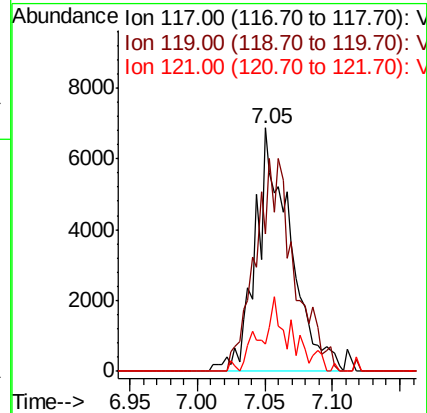
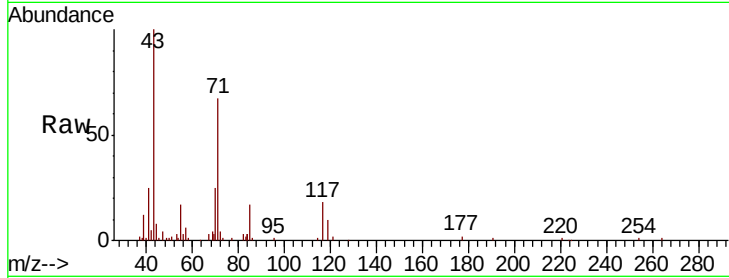


#35
Carbon Tetrachloride
Concen: 0.066 ppbv m
RT: 7.05
Instrument: MSVOA_L
Delta R.T.
Lab File: ClientSampleId :
Acq: 7 Apr 2022 22:10

Tot Ion:1
Ion Rati
117 100
119 56.
121 11.

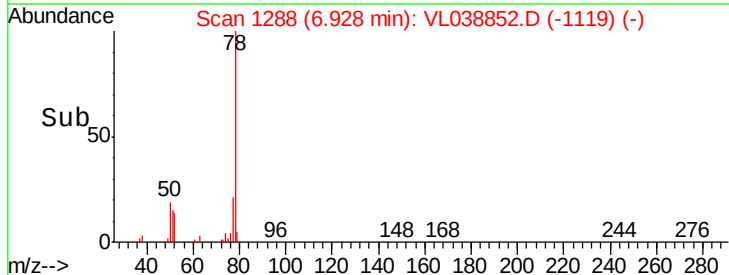
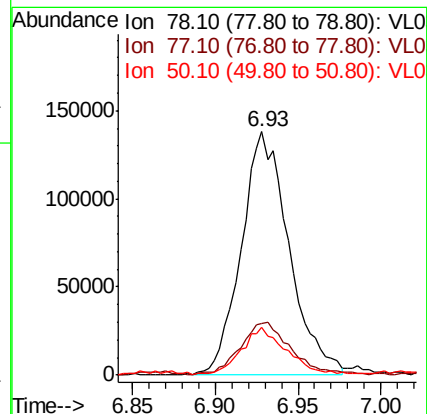
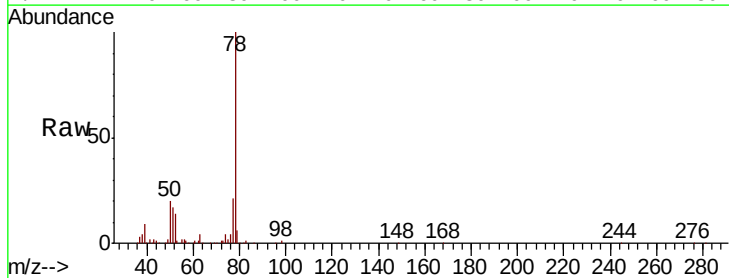
Manual Integrations
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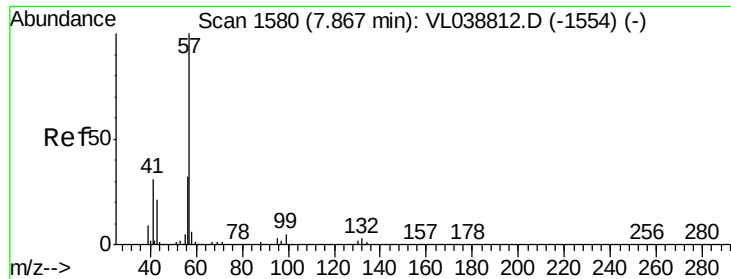
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#36
Benzene
Concen: 0.974 ppbv
RT: 6.93 min Scan# 1288
Delta R.T. 0.04 min
Lab File: VL038852.D
Acq: 7 Apr 2022 22:10

Tgt Ion: 78 Resp: 275490
Ion Ratio Lower Upper
78 100
77 20.8 18.2 27.2
50 19.4 14.0 21.0



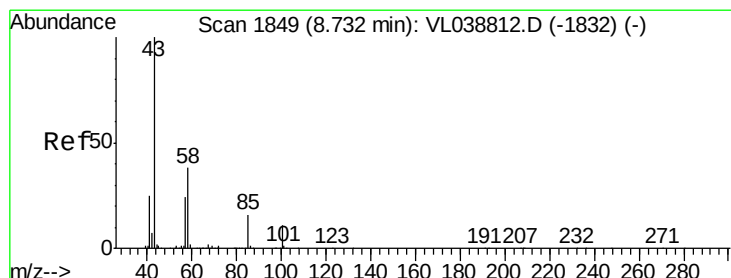
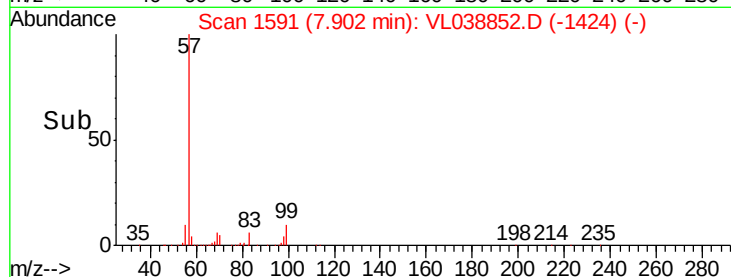
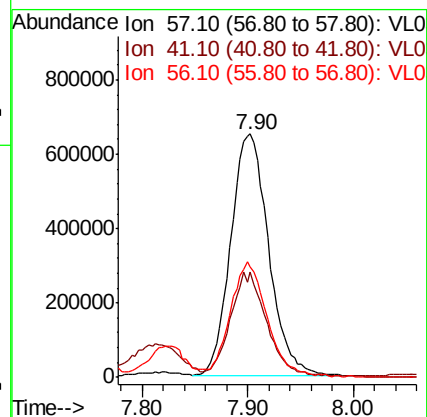
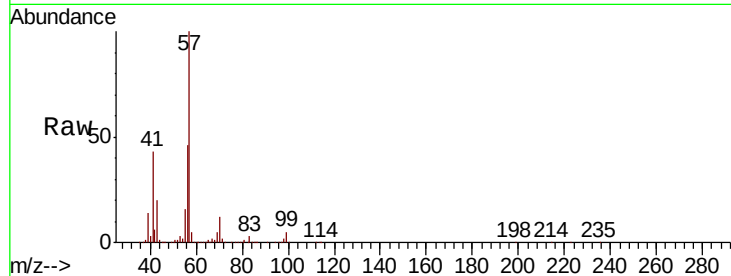


#44
 2,2,4-Trimethylpentane
 Concen: 3.374 ppbv
 RT: 7.90
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 7 Apr 2022 22:10

Tot Ion:
 Ion Ratio
 57 100
 41 41.
 56 47.

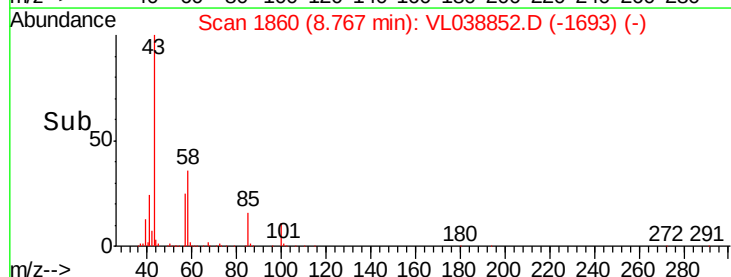
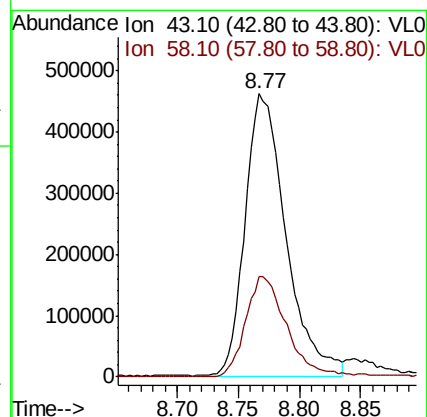
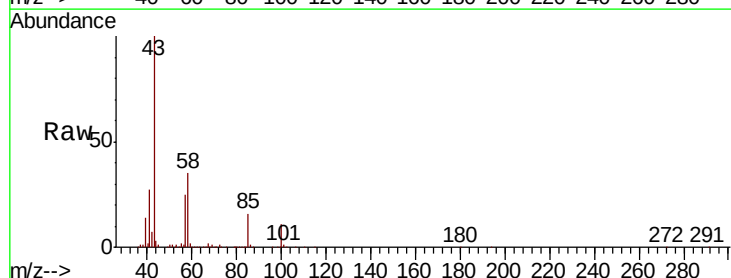
Manual Integrations
 APPROVED

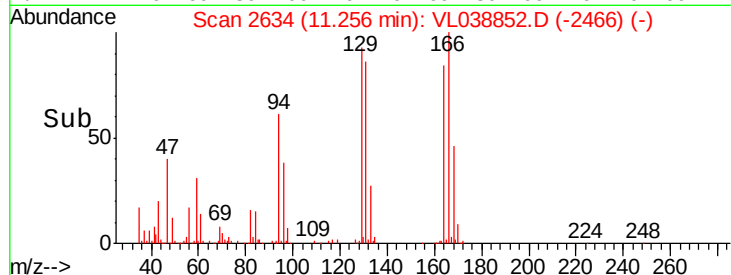
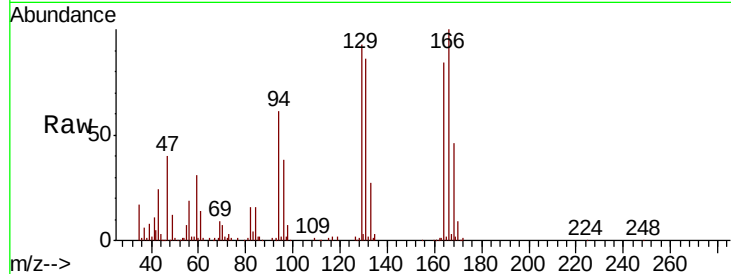
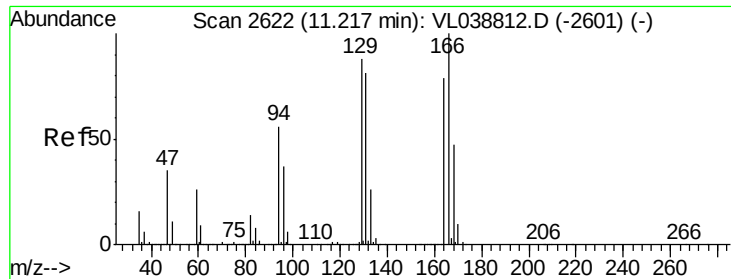
Reviewed By :Semsettin Yesilyurt 04/09/2022
 Supervised By :Mahesh Dadoda 04/11/2022



#50
 4-Methyl-2-Pentanone
 Concen: 3.864 ppbv
 RT: 8.77 min Scan# 1860
 Delta R.T. 0.04 min
 Lab File: VL038852.D
 Acq: 7 Apr 2022 22:10

Tgt Ion: 43 Resp: 1067766
 Ion Ratio Lower Upper
 43 100
 58 36.1 29.0 43.6





#52

Tetrachloroethene

Concen: 1.586 ppbv m

RT: 11.26

Delta R.T. MSVOA_L

Lab File:

Acq: 7 Apr 2022 22:10

ClientSampleId :

1160-1-SG-2

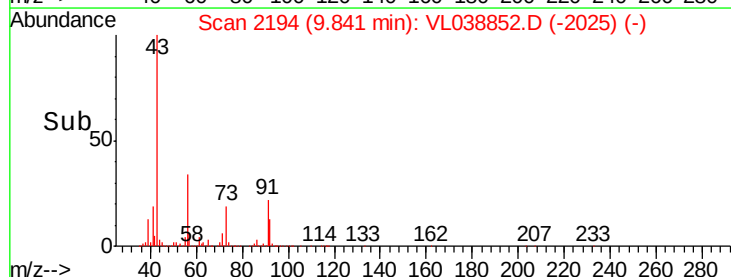
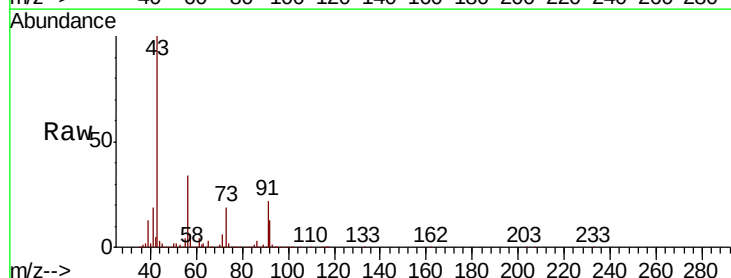
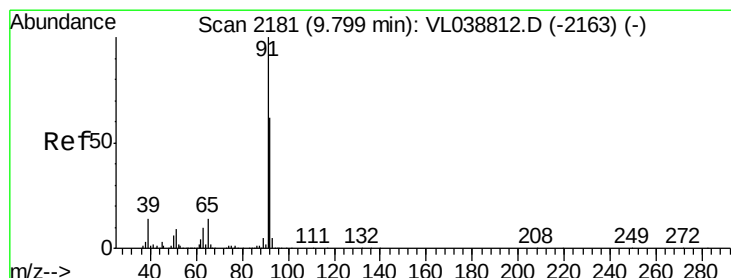
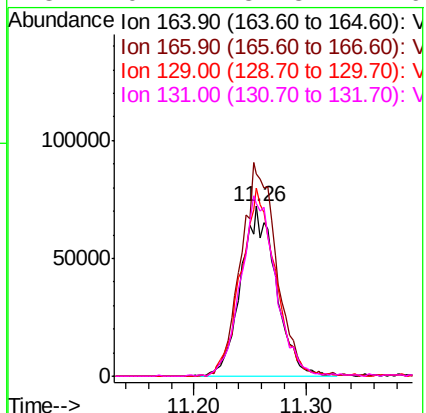
Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/09/2022

Supervised By :Mahesh Dadoda 04/11/2022

Tot Ion	Ratio	Abundance	Time (min)
164	100		
166	118.		
129	110.		
131	101.4	81.8	122.6



#53

Toluene

Concen: 5.827 ppbv

RT: 9.84 min Scan# 2194

Delta R.T. 0.04 min

Lab File: VL038852.D

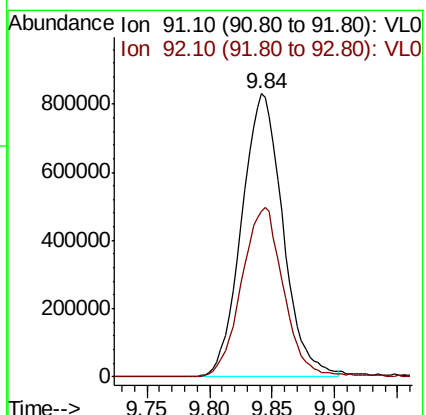
Acq: 7 Apr 2022 22:10

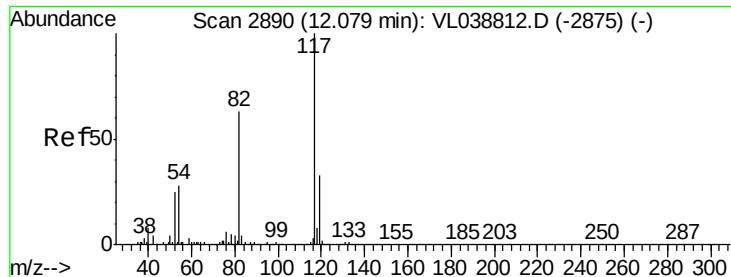
Tgt Ion: 91 Resp: 1902226

Ion Ratio Lower Upper

91 100

92 61.5 49.2 73.8





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.12

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 7 Apr 2022 22:10

Tot Ion:1

Ion Rati

117 100

82 67.

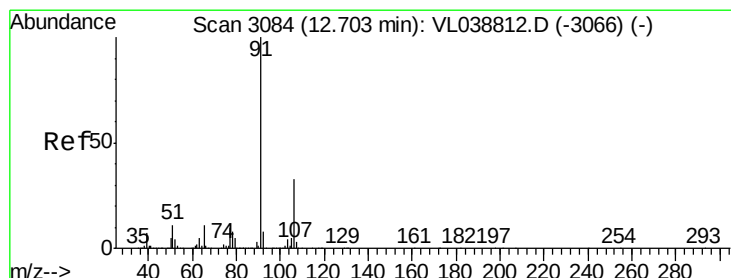
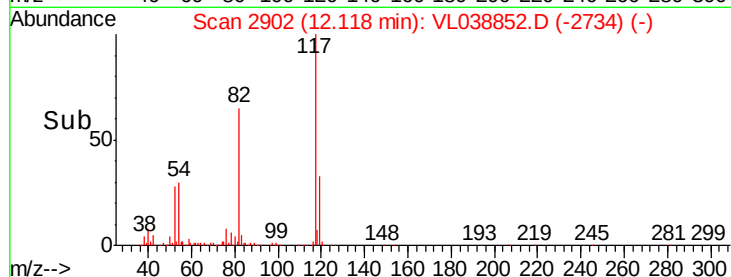
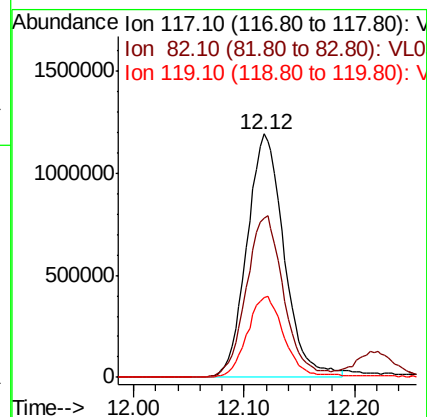
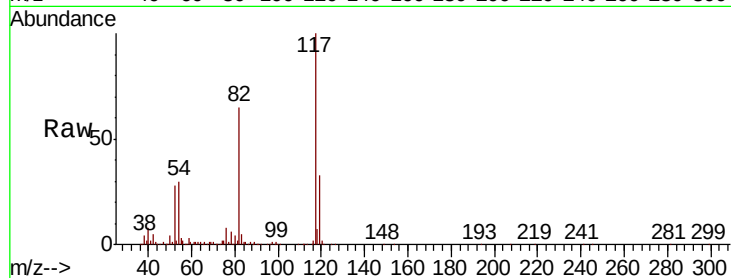
119 34.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2022

Supervised By :Mahesh Dadoda 04/11/2022



#58

Ethyl Benzene

Concen: 5.790 ppbv

RT: 12.74 min Scan# 3096

Delta R.T. 0.04 min

Lab File: VL038852.D

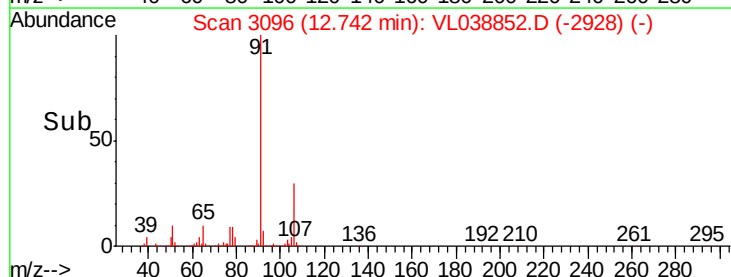
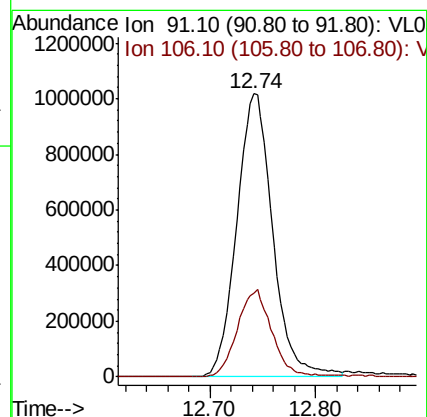
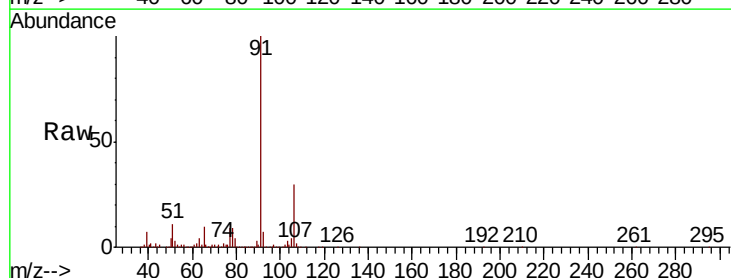
Acq: 7 Apr 2022 22:10

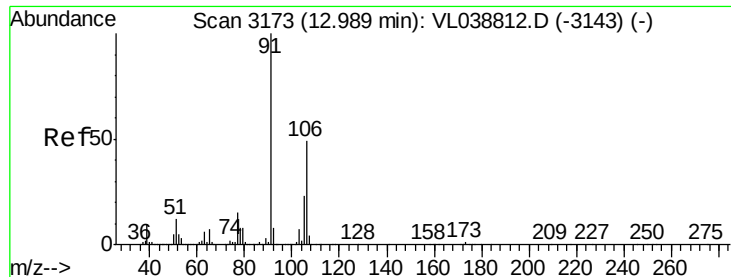
Tgt Ion: 91 Resp: 2406384

Ion Ratio Lower Upper

91 100

106 29.6 26.7 40.1



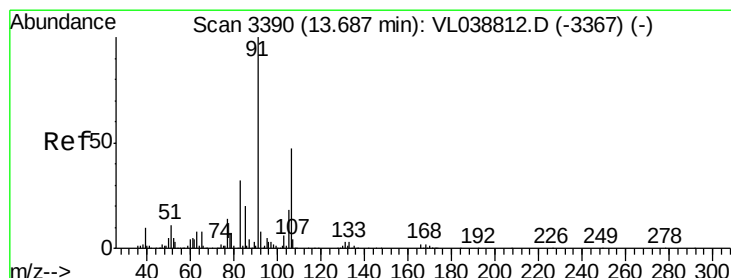
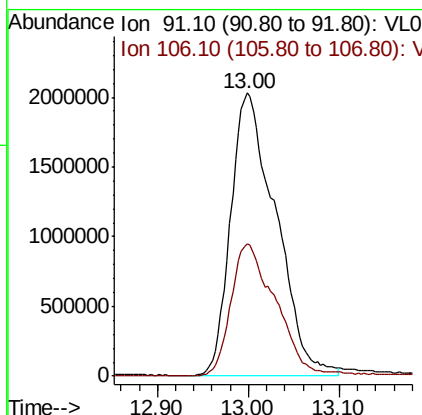
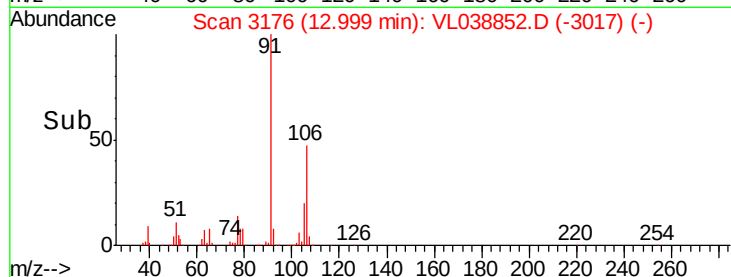
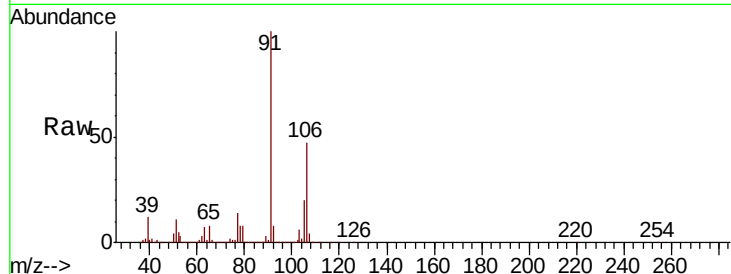


#59
m/p-Xylene
Concen: 19.898 ppbv
RT: 13.00
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 7 Apr 2022 22:10

Tot Ion:
Ion Ratio
91 100
106 47.

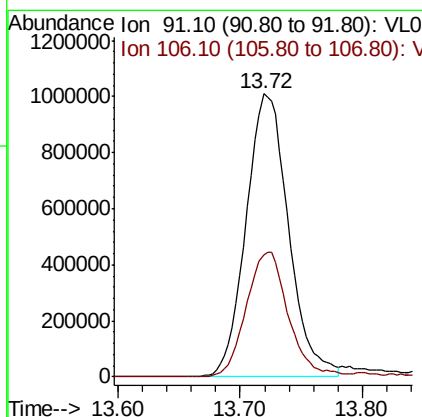
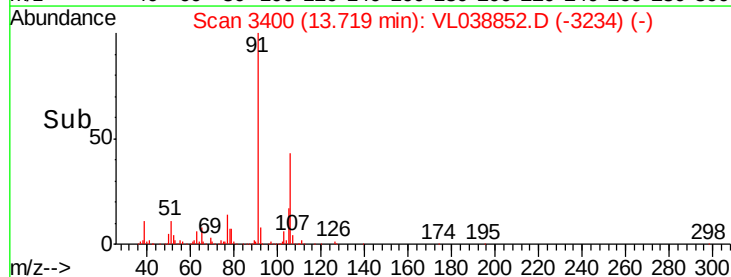
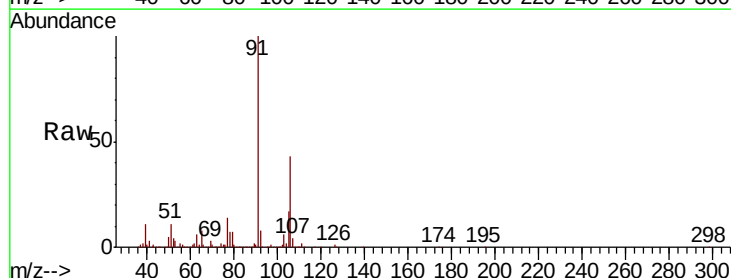
Manual Integrations
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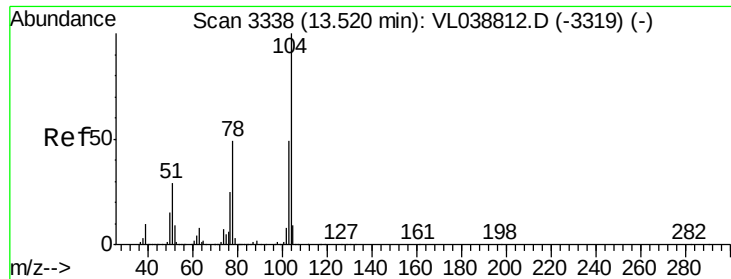
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#60
o-Xylene
Concen: 7.416 ppbv
RT: 13.72 min Scan# 3400
Delta R.T. 0.03 min
Lab File: VL038852.D
Acq: 7 Apr 2022 22:10

Tgt Ion: 91 Resp: 2422838
Ion Ratio Lower Upper
91 100
106 46.1 23.8 71.4





#61

Stvrene

Concen: 0.350 ppbv

RT: 13.56

Delta R.T.

Lab File:

Acq: 7 Apr 2022 22:10

Instrument :

MSVOA_1

ClientSampleId :

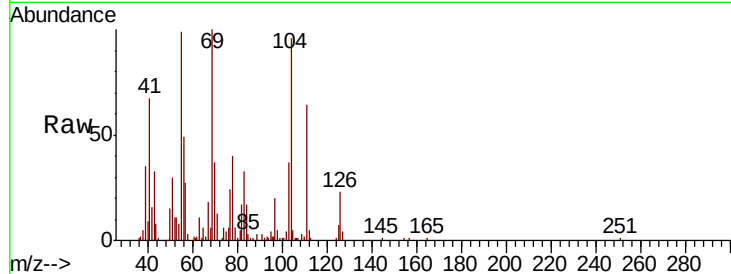
1160-1-SG-2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/09/2022

Supervised By :Mahesh Dadoda 04/11/2022



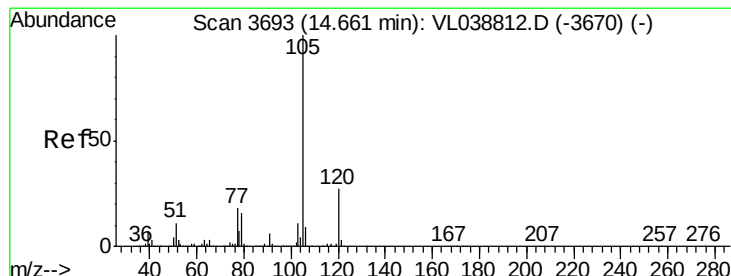
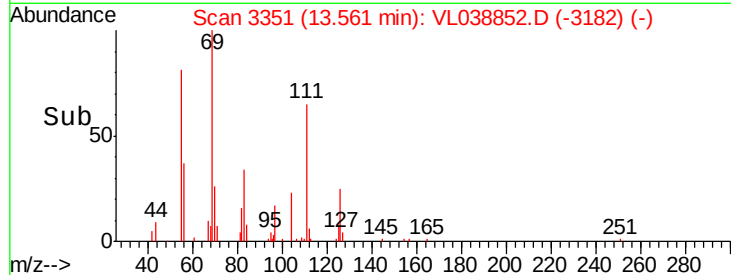
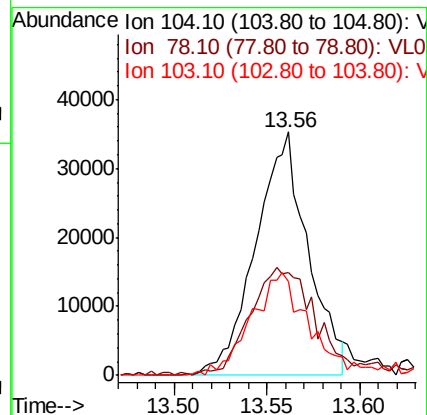
Tot Ion:1

Ion Rati

104 100

78 59.

103 46.



#62

Isopropylbenzene

Concen: 0.301 ppbv m

RT: 14.70 min Scan# 3704

Delta R.T. 0.04 min

Lab File: VL038852.D

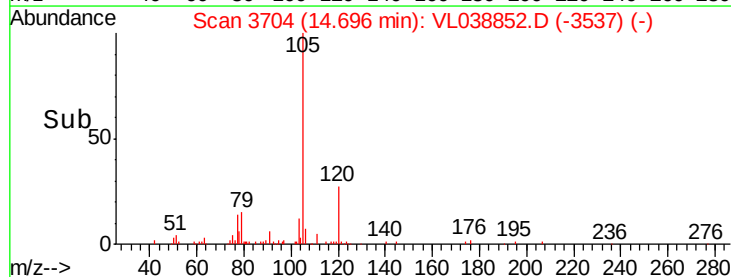
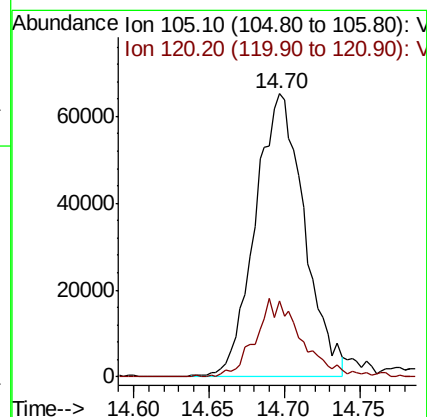
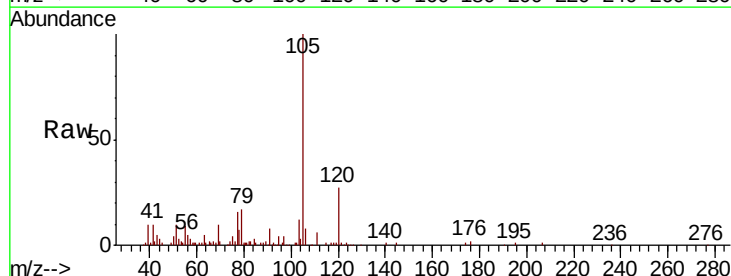
Acq: 7 Apr 2022 22:10

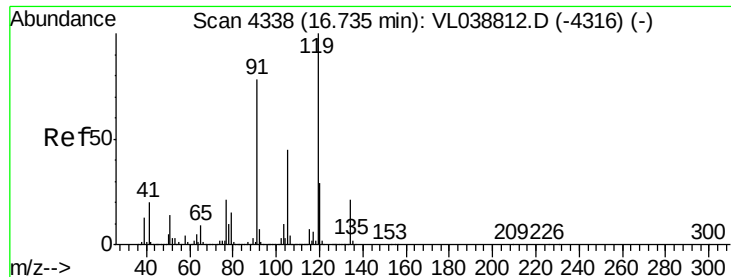
Tgt Ion:105 Resp: 147724

Ion Ratio Lower Upper

105 100

120 26.3 21.8 32.8





#65

tert-Butylbenzene

Concen: 0.434 ppbv m

RT: 16.79

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Apr 2022 22:10

Tot Ion:1

Ion Rati

119 100

91 111.

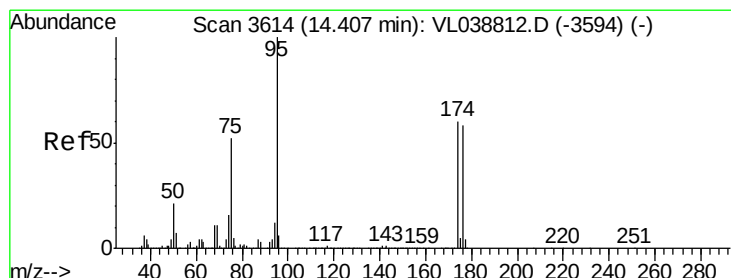
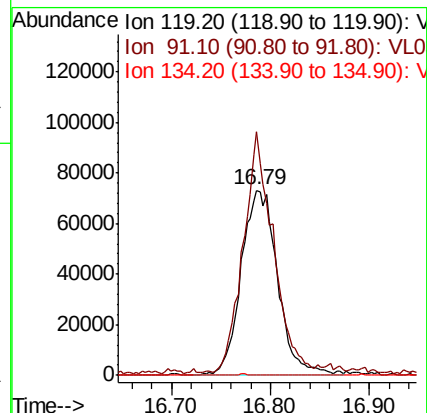
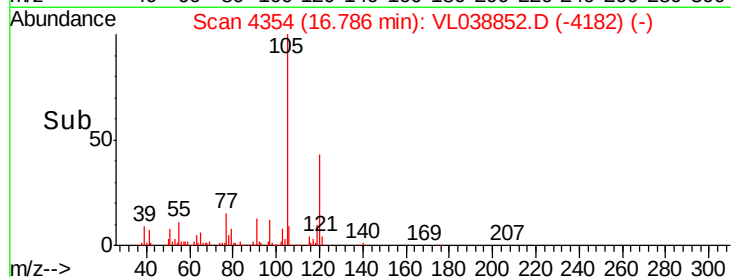
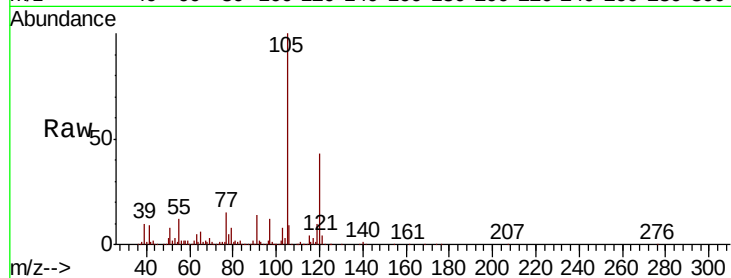
134 0.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2022

Supervised By :Mahesh Dadoda 04/11/2022



#68

1-Bromo-4-Fluorobenzene

Concen: 10.349 ppbv

RT: 14.44 min Scan# 3625

Delta R.T. 0.04 min

Lab File: VL038852.D

Acq: 7 Apr 2022 22:10

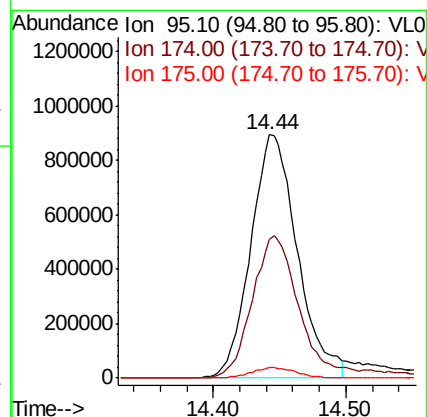
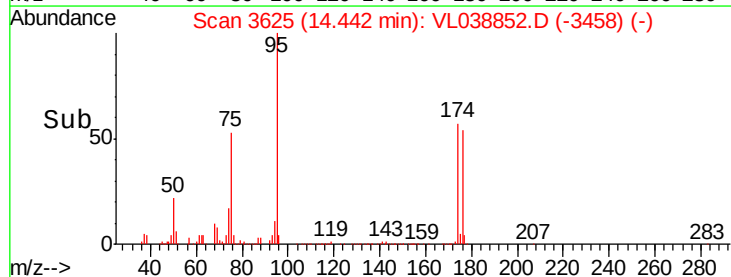
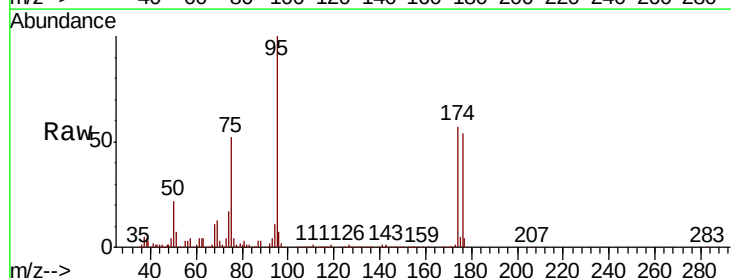
Tgt Ion: 95 Resp: 2183260

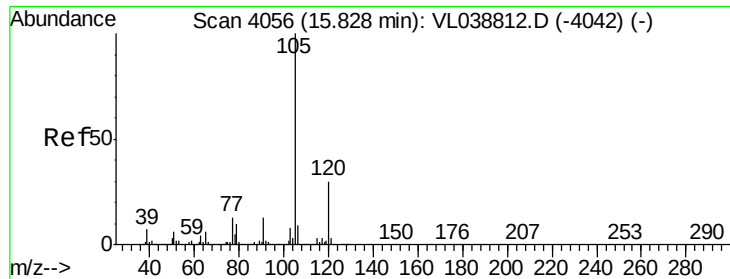
Ion Ratio Lower Upper

95 100

174 63.4 52.0 78.0

175 4.3 4.0 6.0





#72

4-Ethyltoluene

Concen: 2.015 ppbv

RT: 15.87

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Apr 2022 22:10

Tot Ion:1

Ion Ratio

105 100

120 31.

91 14.

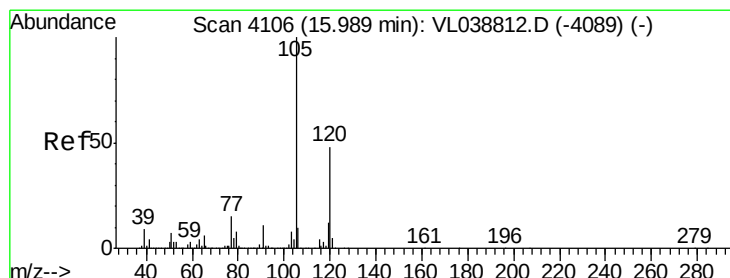
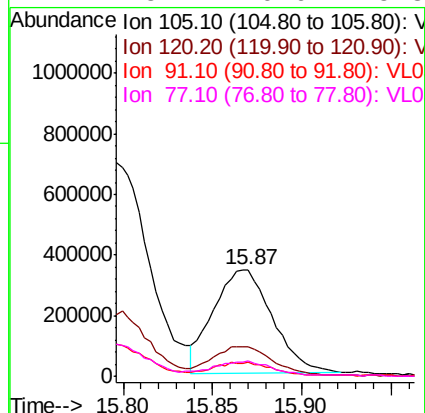
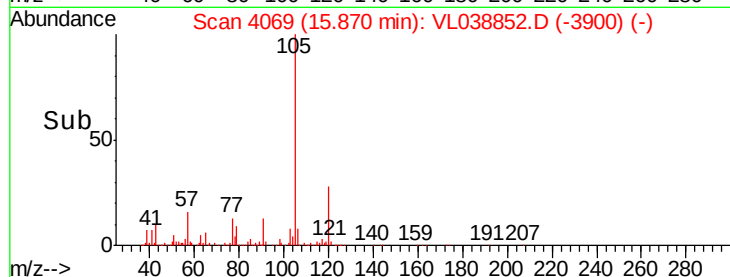
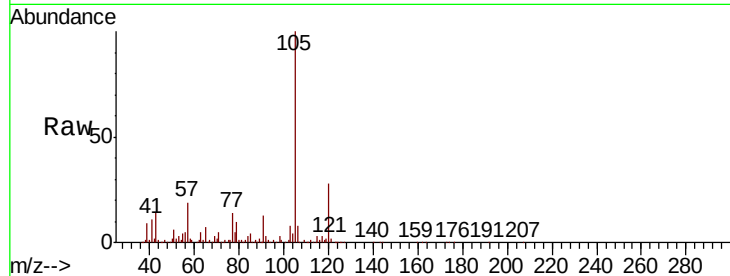
77 15.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2022

Supervised By :Mahesh Dadoda 04/11/2022



#73

1,3,5-Trimethylbenzene

Concen: 1.937 ppbv

RT: 16.02 min Scan# 4117

Delta R.T. 0.04 min

Lab File: VL038852.D

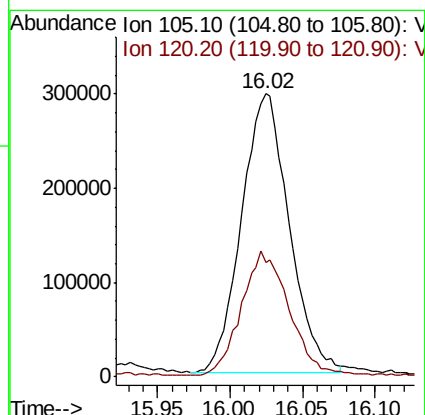
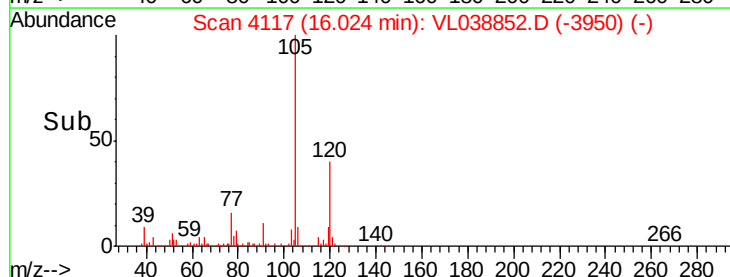
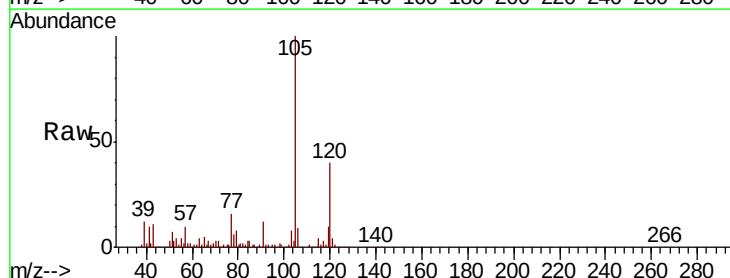
Acq: 7 Apr 2022 22:10

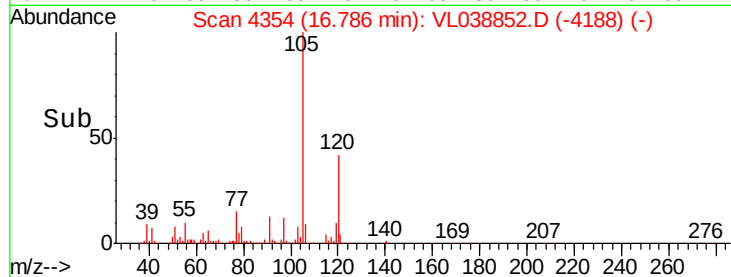
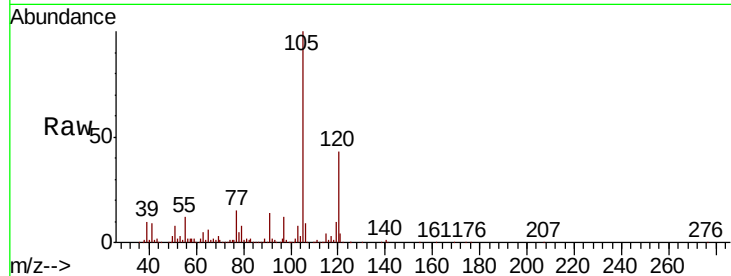
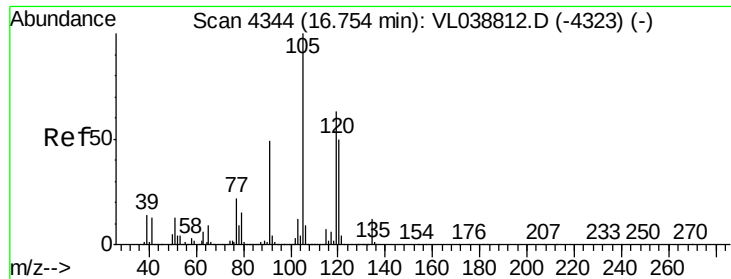
Tgt Ion:105 Resp: 678748

Ion Ratio Lower Upper

105 100

120 40.4 38.7 58.1





#74
 1,2,4-Trimethylbenzene
 Concen: 4.724 ppbv
 RT: 16.79
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 7 Apr 2022 22:10

Tot Ion:1
 Ion Rati
 105 100
 120 42.
 91 13.
 77 15.2 17.3 25.9#

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2022
 Supervised By :Mahesh Dadoda 04/11/2022

