

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL042721\
 Data File : VL036853.D
 Acq On : 27 Apr 2021 11:56
 Operator : SY/AP
 Sample : M2174-01DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 IA1DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/29/2021
 Supervised By :Mahesh Dadoda 04/29/2021

Quant Time: Apr 29 15:53:09 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL042721A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Tue Apr 27 16:56:35 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1352332	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3191653	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2836333	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2323311	10.20	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	54404	0.255	ppbv	89
3) Chlorodifluoromethane	2.99	51	124434	0.505	ppbv	97
4) Chloromethane	3.14	50	43940m	0.543	ppbv	
9) Propene	3.02	41	127534	1.699	ppbv	83
10) Heptane	8.12	43	44347	0.235	ppbv #	85
11) Trichlorofluoromethane	3.95	101	42653	0.224	ppbv #	83
13) Ethanol	3.61	45	1340143	139.999	ppbv	92
15) Acetone	3.85	43	1110426	8.712	ppbv #	89
19) Isopropyl Alcohol	3.98	45	200165	3.169	ppbv #	97
20) Methylene Chloride	4.34	84	1599161	26.236	ppbv	96
26) Hexane	5.68	57	1221789	8.387	ppbv #	47
30) Cyclohexane	7.16	84	24946m	0.216	ppbv	
35) Carbon Tetrachloride	7.01	117	14372m	0.066	ppbv	
36) Benzene	6.89	78	55588	0.207	ppbv #	93
44) 2,2,4-Trimethylpentane	7.87	57	51778	0.112	ppbv #	54
52) Tetrachloroethene	11.21	164	18265m	0.199	ppbv	
53) Toluene	9.81	91	246258	0.875	ppbv	100
59) m/p-Xylene	12.97	91	90166m	0.280	ppbv	
60) o-Xylene	13.69	91	35708m	0.115	ppbv	
74) 1,2,4-Trimethylbenzene	16.77	105	33557m	0.098	ppbv	

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

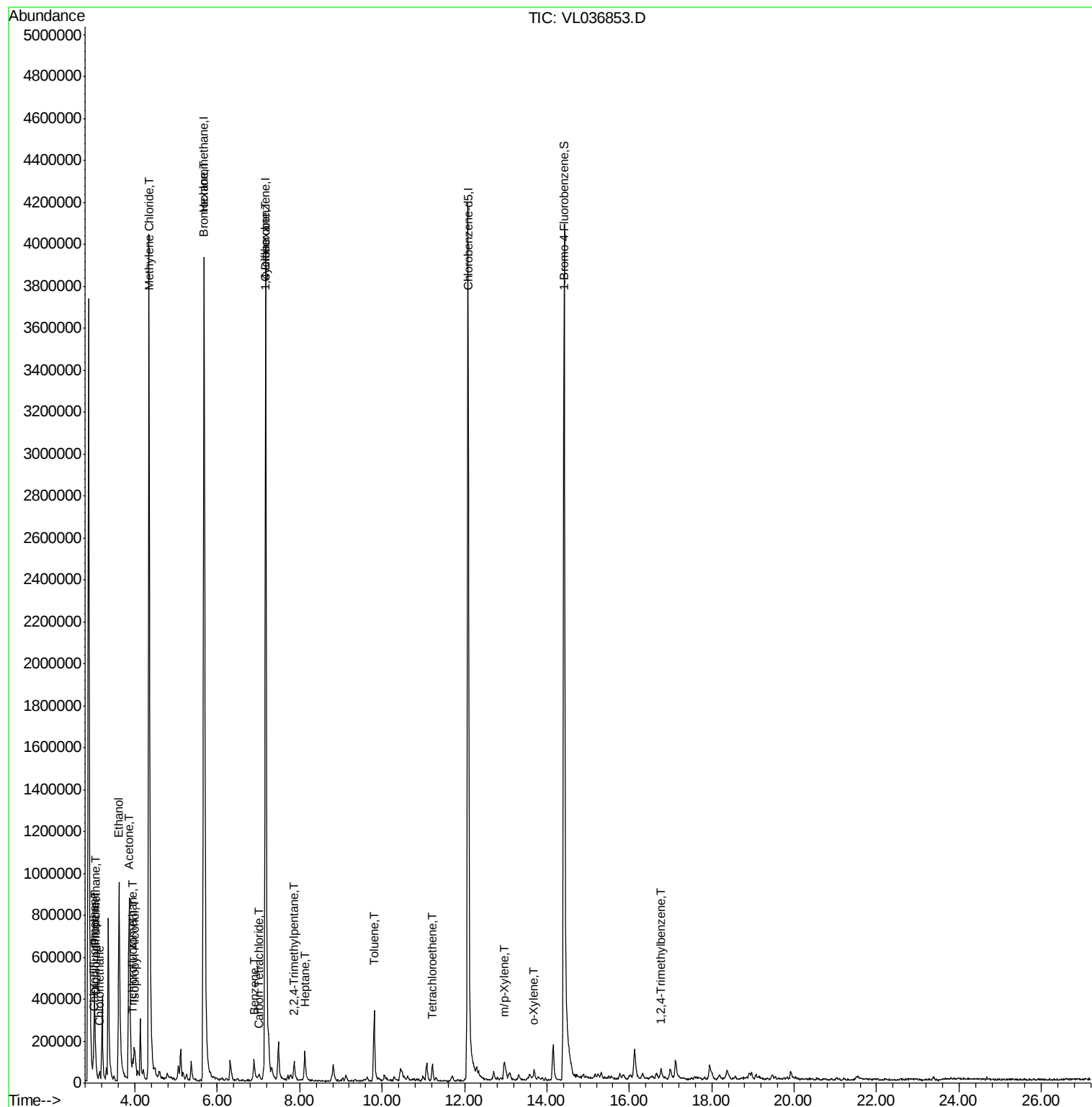
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL042721\
Data File : VL036853.D
Acq On : 27 Apr 2021 11:56
Operator : SY/AP
Sample : M2174-01DUP
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

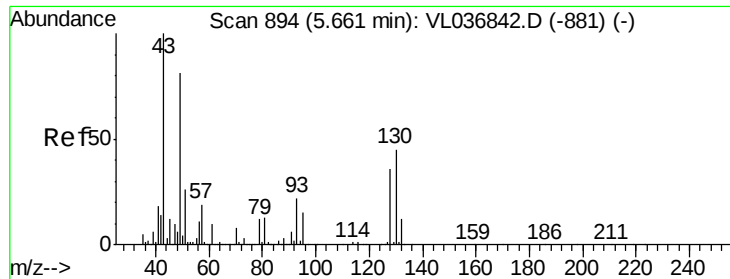
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Quant Time: Apr 29 15:53:09 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL042721
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Tue Apr 27 16:56:35 2021
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: IA1DUP

Acq: 27 Apr 2021 11:56

Tot Ion:

Ion Ratio

49 100

128 46.

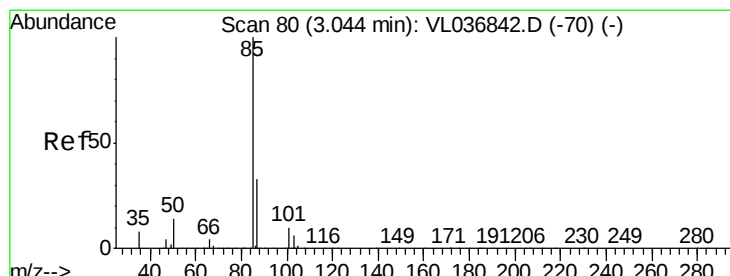
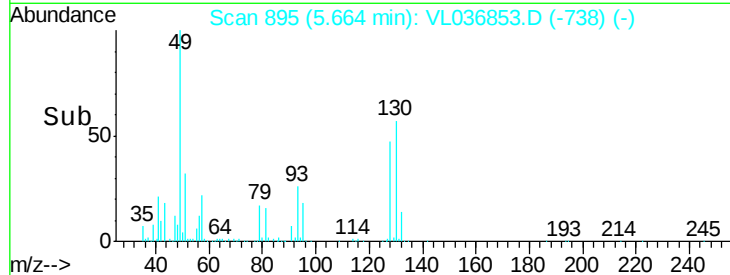
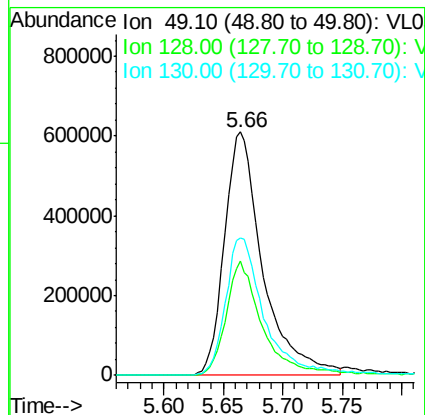
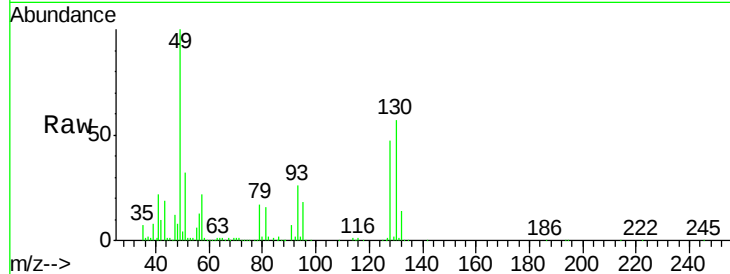
130 58.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/29/2021

Supervised By :Mahesh Dadoda 04/29/2021



#2

Dichlorodifluoromethane

Concen: 0.255 ppbv

RT: 3.05 min Scan# 81

Delta R.T. 0.00 min

Lab File: VL036853.D

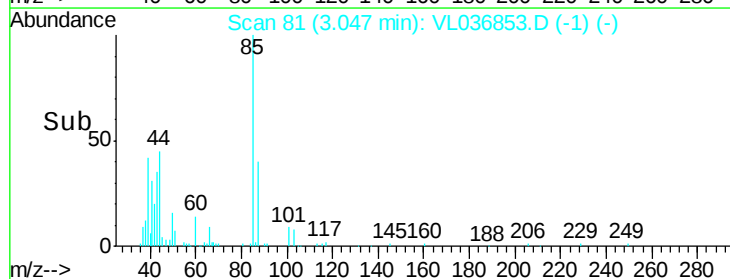
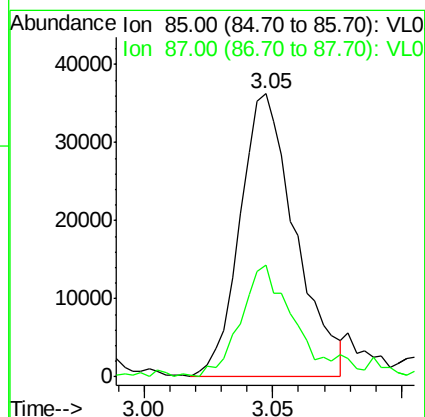
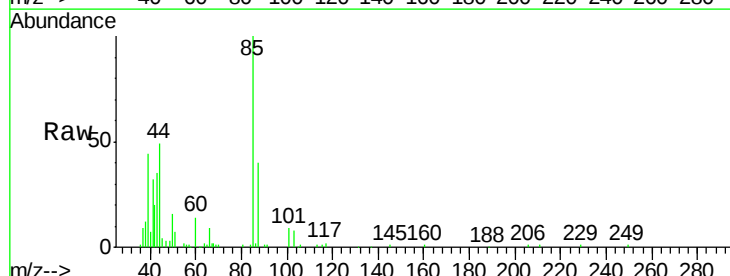
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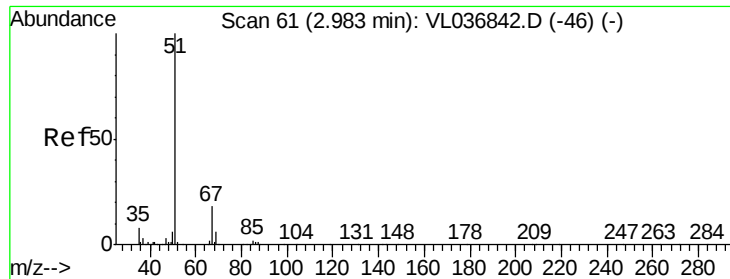
Tgt Ion: 85 Resp: 54404

Ion Ratio Lower Upper

85 100

87 38.9 26.2 39.2





#3

Chlorodifluoromethane

Concen: 0.505 ppbv

RT: 2.99 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 27 Apr 2021 11:56

Tot Ion:

Ion Ratio

51 100

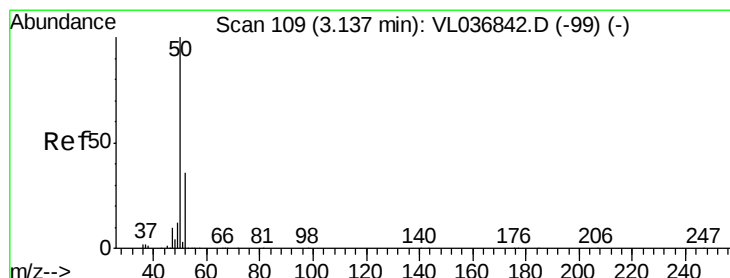
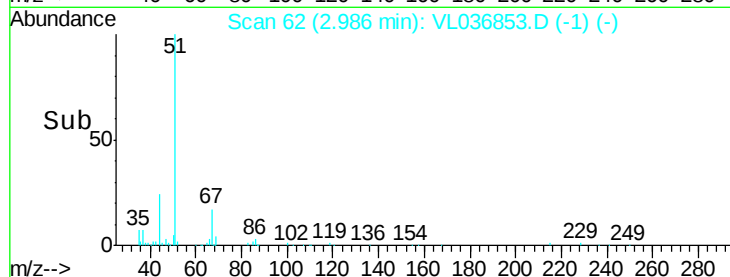
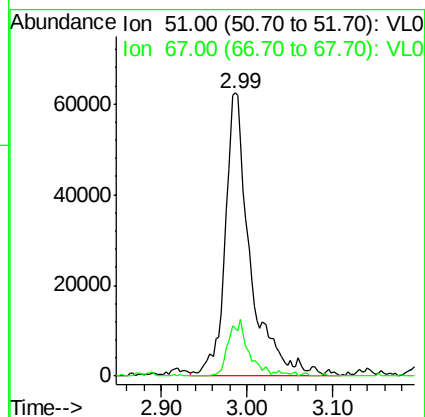
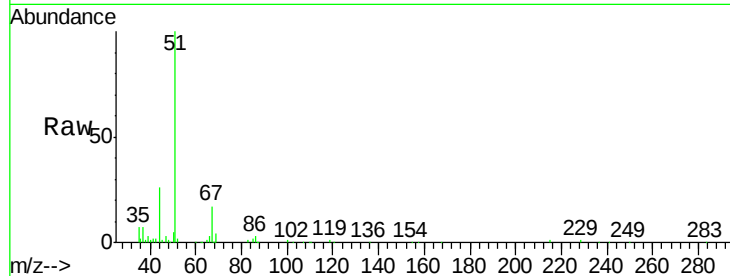
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Reviewed By :Semsettin Yesilyurt 04/29/2021

Supervised By :Mahesh Dadoda 04/29/2021



#4

Chloromethane

Concen: 0.543 ppbv m

RT: 3.14 min Scan# 109

Delta R.T. 0.00 min

Lab File: VL036853.D

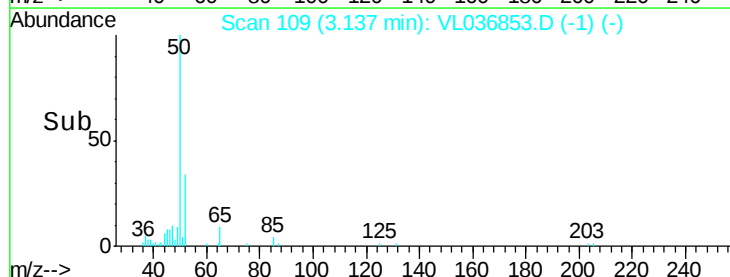
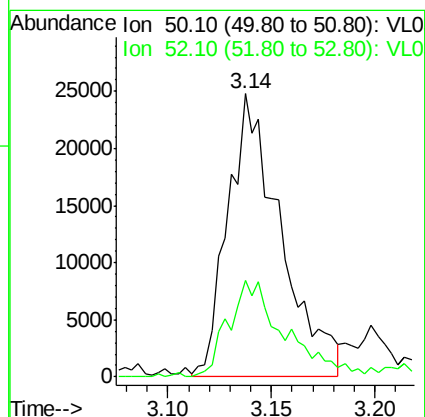
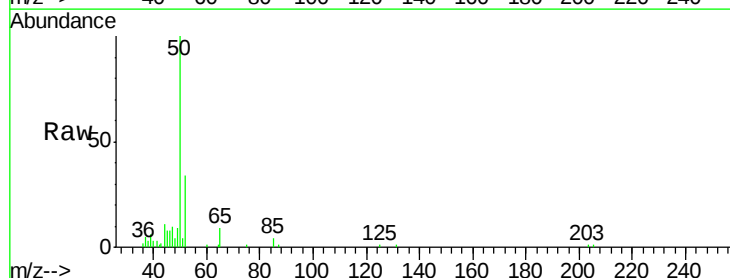
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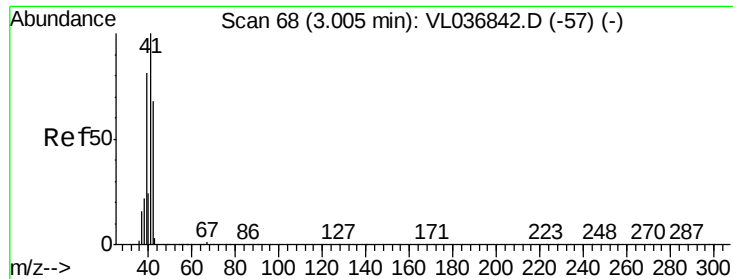
Tgt Ion: 50 Resp: 43940

Ion Ratio Lower Upper

50 100

52 34.2 28.5 42.7



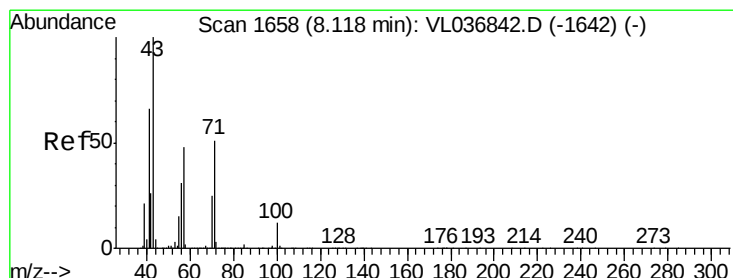
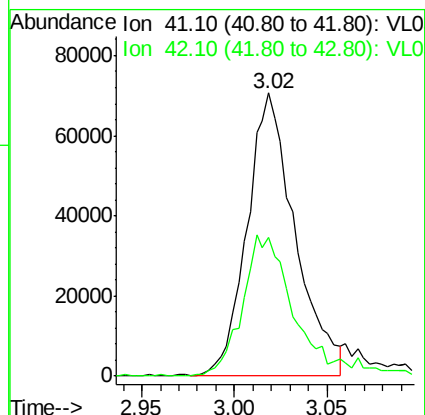
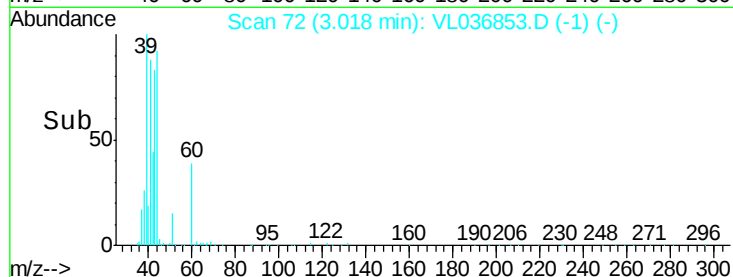
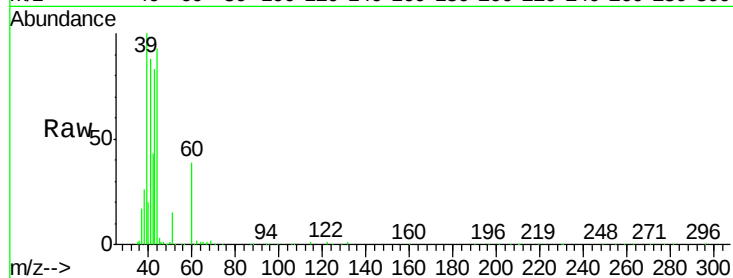


#9
 Propene
 Concen: 1.699 ppbv
 RT: 3.02
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 27 Apr 2021 11:56

Tot Ion:
 Ion Ratio
 41 100
 42 56.

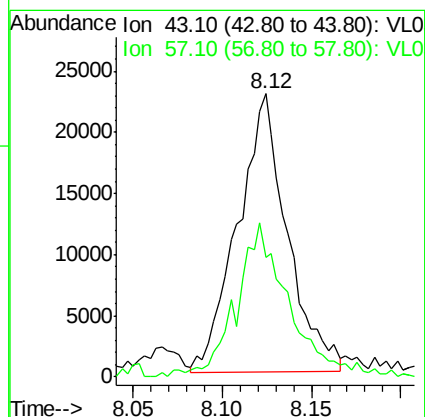
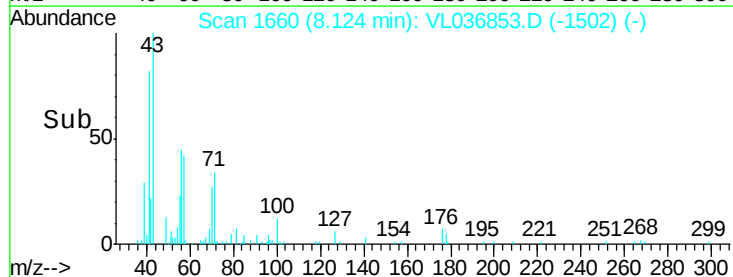
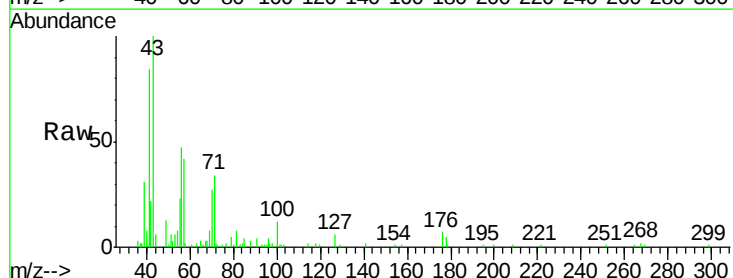
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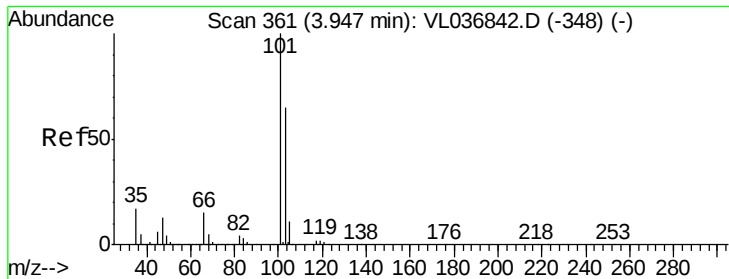
Reviewed By :Semsettin Yesilyurt 04/29/2021
 Supervised By :Mahesh Dadoda 04/29/2021



#10
 Heptane
 Concen: 0.235 ppbv
 RT: 8.12 min Scan# 1660
 Delta R.T. 0.01 min
 Lab File: VL036853.D
 Acq: 27 Apr 2021 11:56

Tgt Ion: 43 Resp: 44347
 Ion Ratio Lower Upper
 43 100
 57 58.9 38.8 58.2#



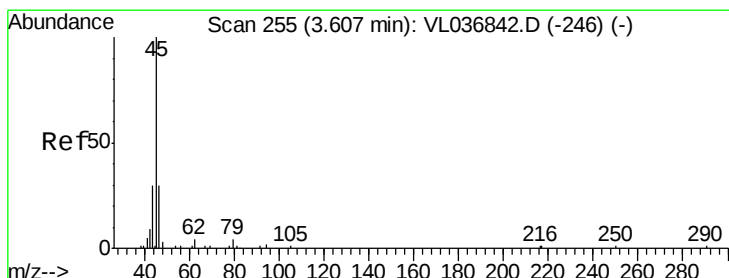
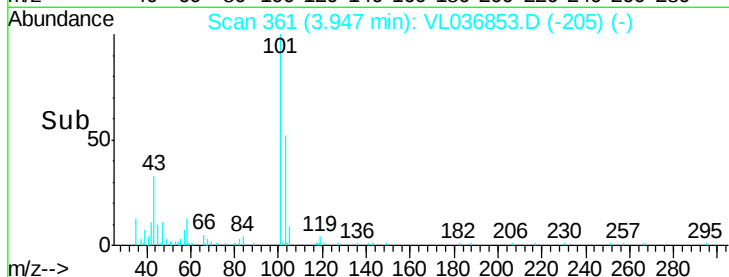
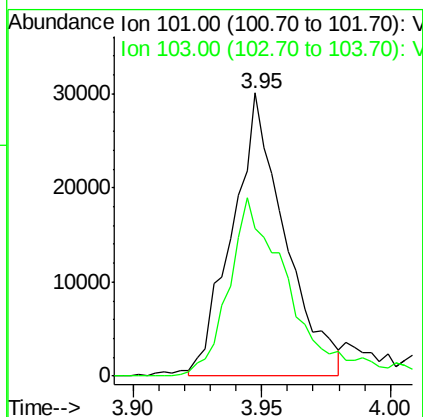
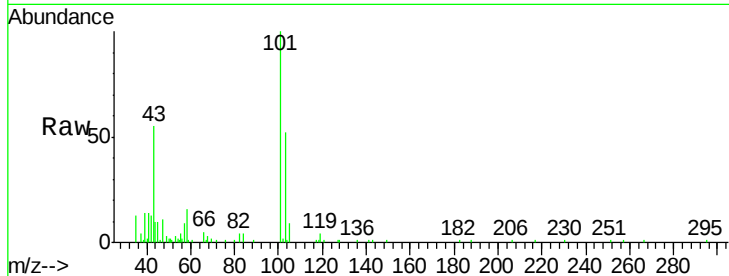


#11
 Trichlorofluoromethane
 Concen: 0.224 ppbv
 RT: 3.95
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 27 Apr 2021 11:56

Tot Ion:1
 Ion Rati
 101 100
 103 51.

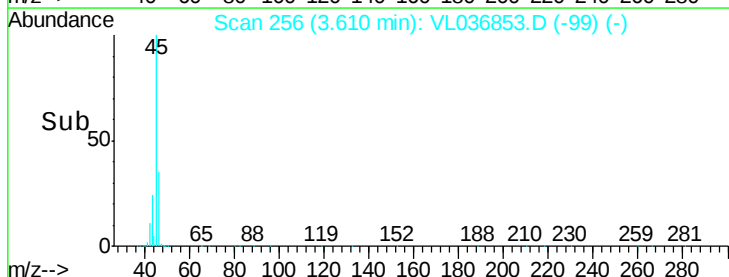
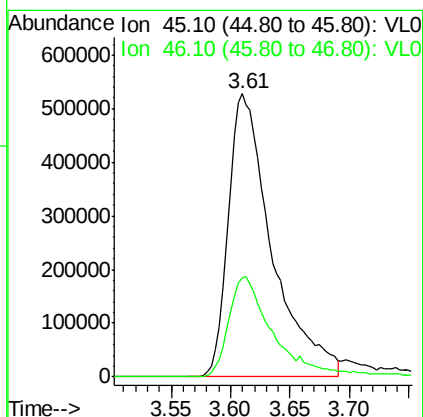
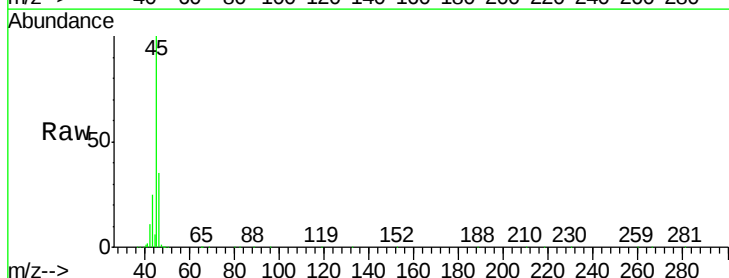
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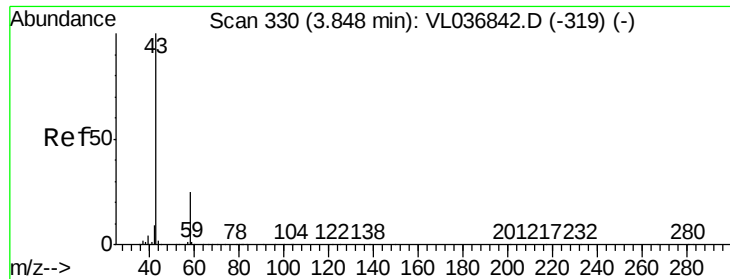
Reviewed By :Semsettin Yesilyurt 04/29/2021
 Supervised By :Mahesh Dadoda 04/29/2021



#13
 Ethanol
 Concen: 139.999 ppbv
 RT: 3.61 min Scan# 256
 Delta R.T. 0.00 min
 Lab File: VL036853.D
 Acq: 27 Apr 2021 11:56

Tgt Ion: 45 Resp: 1340143
 Ion Ratio Lower Upper
 45 100
 46 37.1 16.8 67.4



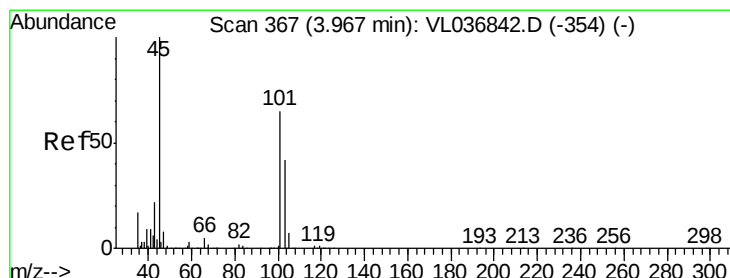
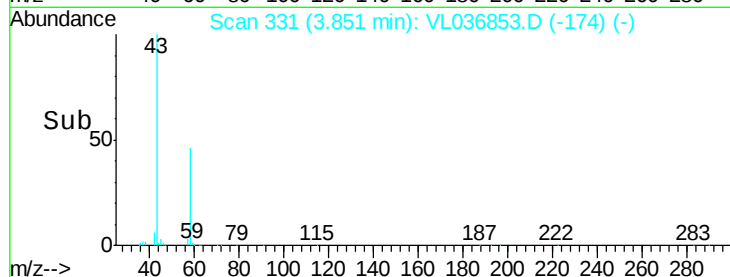
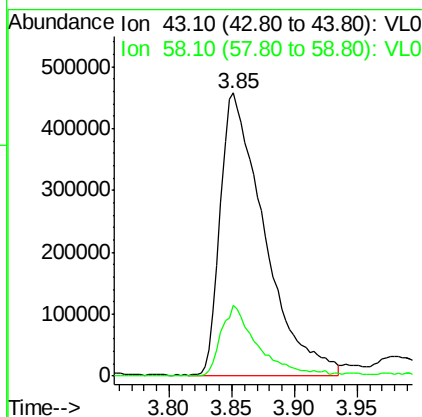
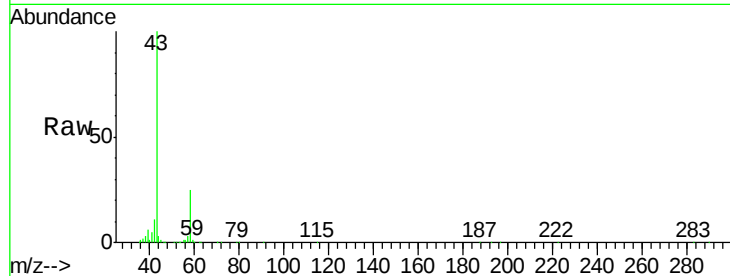


#15
Acetone
Concen: 8.712 ppbv
RT: 3.85
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 27 Apr 2021 11:56

Tot Ion:
Ion Ratio
43 100
58 21.

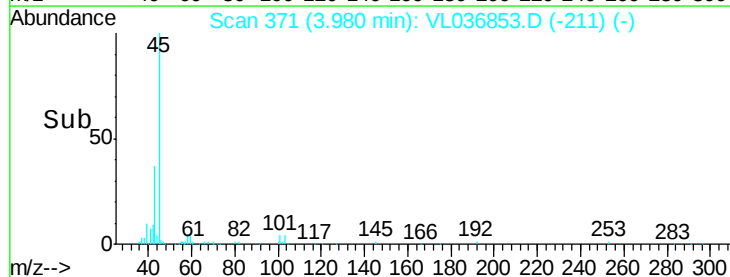
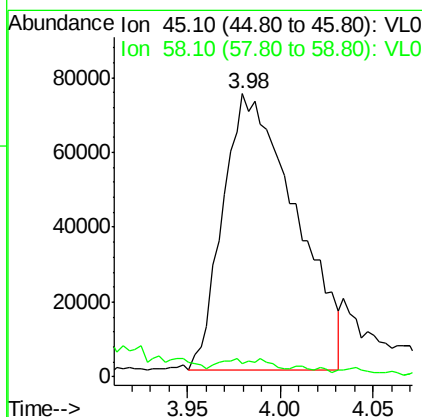
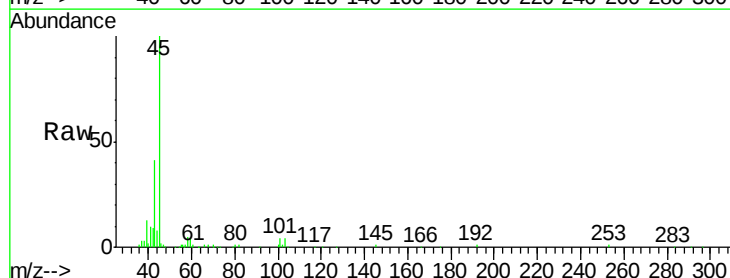
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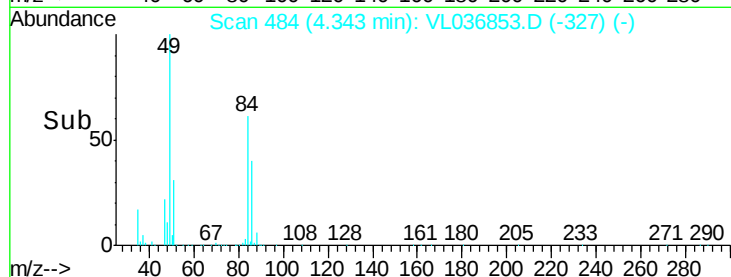
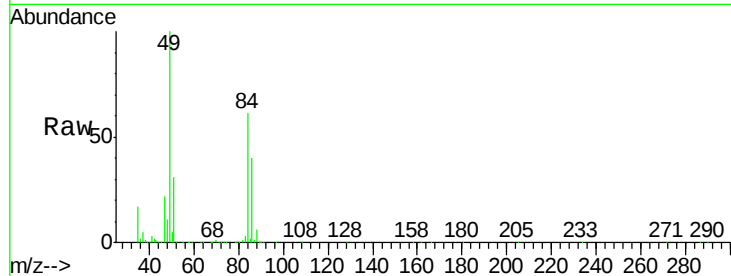
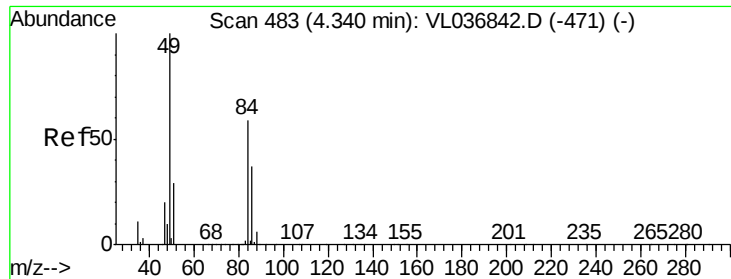
Reviewed By :Semsettin Yesilyurt 04/29/2021
Supervised By :Mahesh Dadoda 04/29/2021



#19
Isopropyl Alcohol
Concen: 3.169 ppbv
RT: 3.98 min Scan# 371
Delta R.T. 0.01 min
Lab File: VL036853.D
Acq: 27 Apr 2021 11:56

Tgt Ion: 45 Resp: 200165
Ion Ratio Lower Upper
45 100
58 4.4 2.8 4.2#



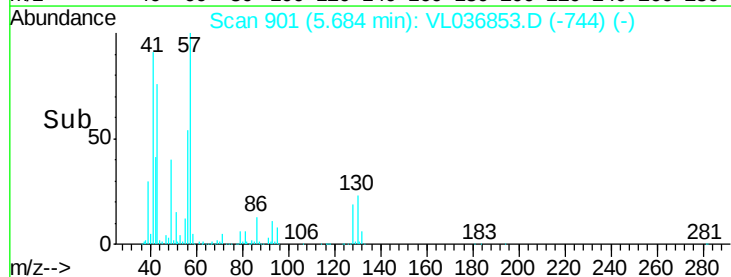
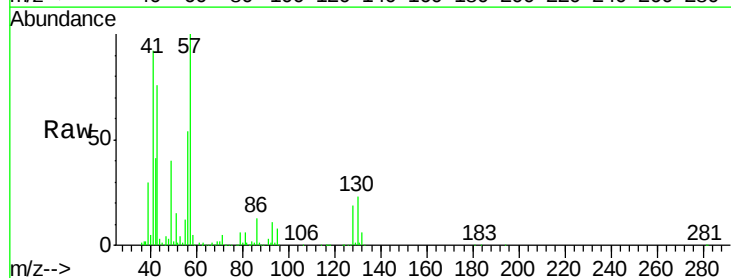
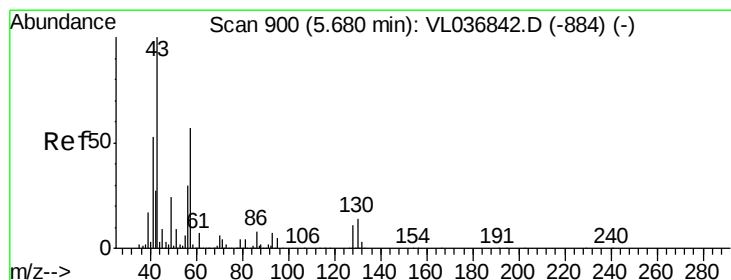
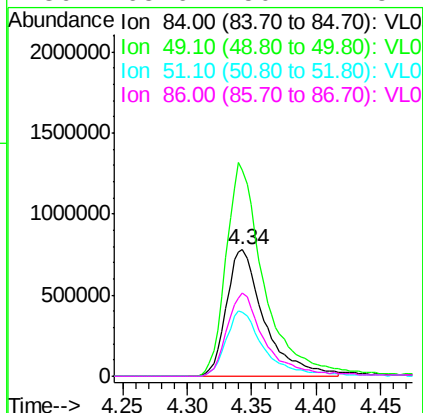


#20
Methvlene Chloride
Concen: 26.236 ppbv
RT: 4.34
Instrument : MSVOA_1
Delta R.T. :
Lab File: ClientSampleId :
Acq: 27 Apr 2021 11:56

Tot Ion:
Ion Ratio
84 100
49 163.
51 50.
86 65.6 50.2 75.2

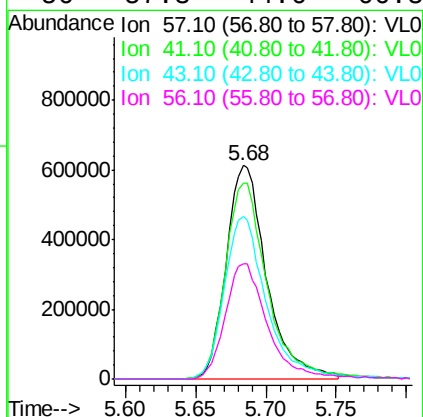
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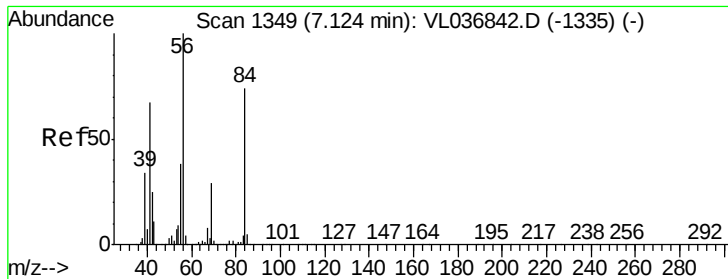
Reviewed By :Semsettin Yesilyurt 04/29/2021
Supervised By :Mahesh Dadoda 04/29/2021



#26
Hexane
Concen: 8.387 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.00 min
Lab File: VL036853.D
Acq: 27 Apr 2021 11:56

Tgt Ion: 57 Resp: 1221789
Ion Ratio Lower Upper
57 100
41 98.0 77.7 116.5
43 81.1 180.5 270.7#
56 57.3 44.6 66.8



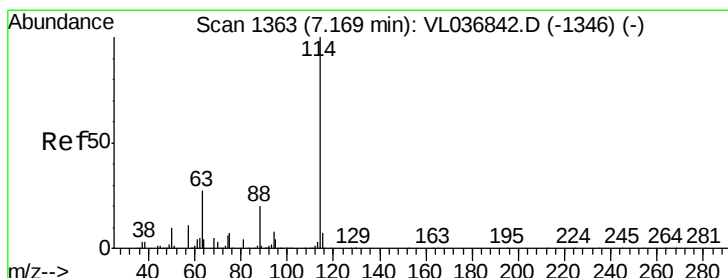
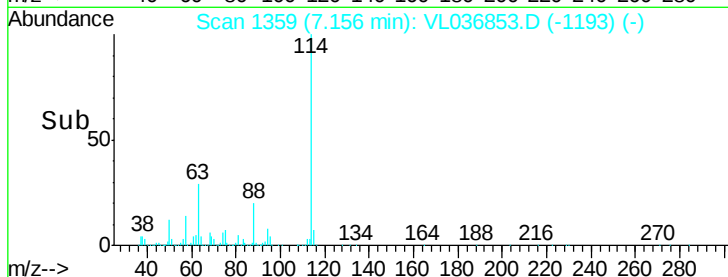
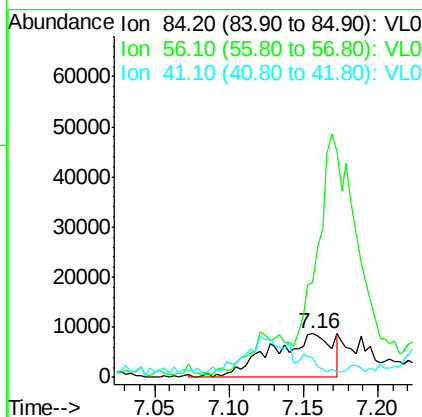
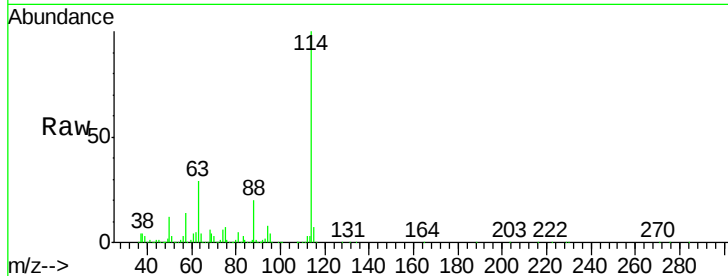


#30
Cvclohexane
Concen: 0.216 ppbv m
RT: 7.16
Instrument: MSVOA_1
Delta R.T.
Lab File: ClientSampleId :
Acq: 27 Apr 2021 11:56

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

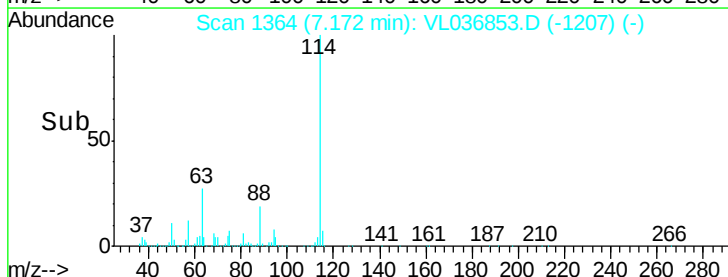
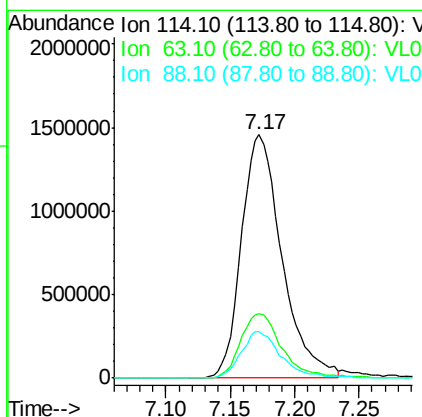
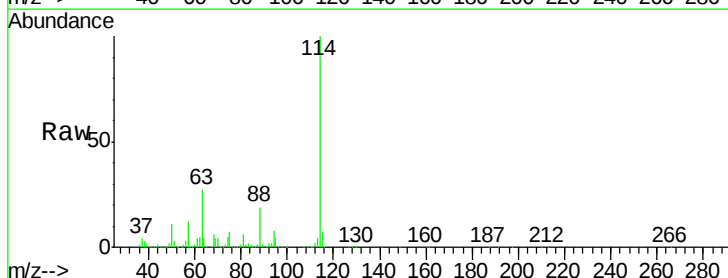
Manual Integrations
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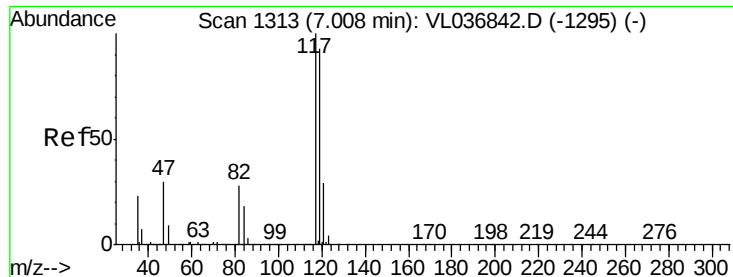
Reviewed By :Semsettin Yesilyurt 04/29/2021
Supervised By :Mahesh Dadoda 04/29/2021



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. 0.00 min
Lab File: VL036853.D
Acq: 27 Apr 2021 11:56

Tgt Ion:114 Resp: 3191653
Ion Ratio Lower Upper
114 100
63 27.5 21.9 32.9
88 19.4 15.1 22.7





#35

Carbon Tetrachloride

Concen: 0.066 ppbv m

RT: 7.01 Instrument:

Delta R.T. MSVOA_L

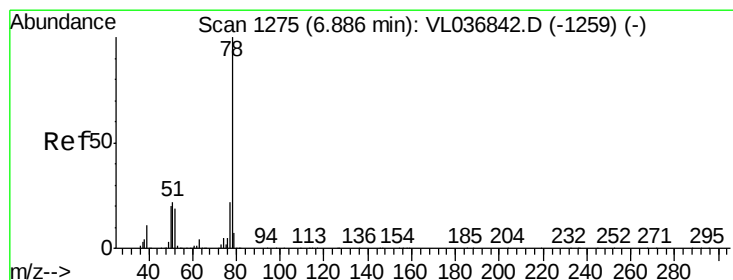
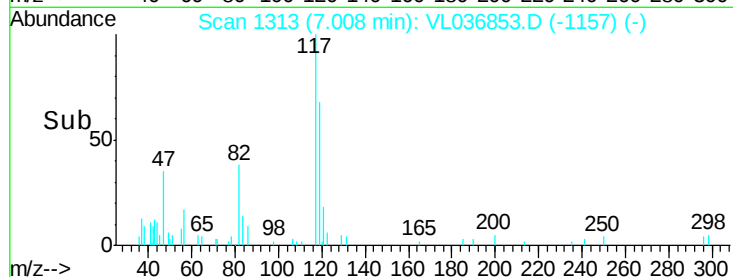
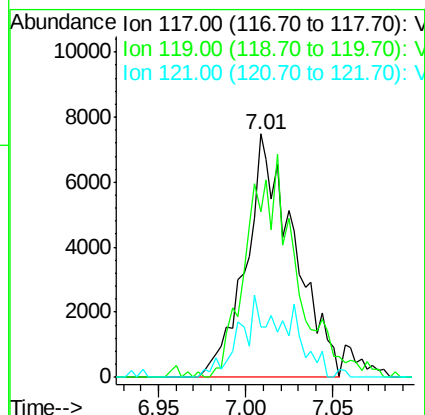
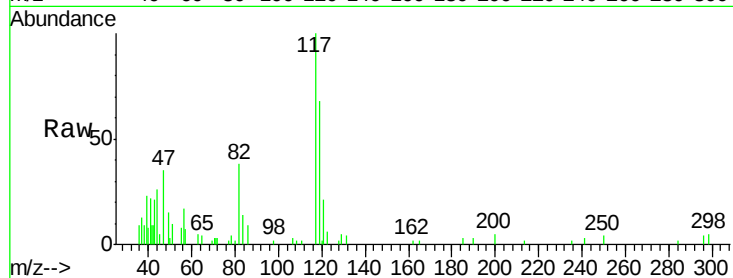
Lab File: ClientSampleId:

Acq: 27 Apr 2021 11:56

Tot Ion:1
Ion Rati
117 100
119 68.
121 20.

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Reviewed By :Semsettin Yesilyurt 04/29/2021
Supervised By :Mahesh Dadoda 04/29/2021



#36

Benzene

Concen: 0.207 ppbv

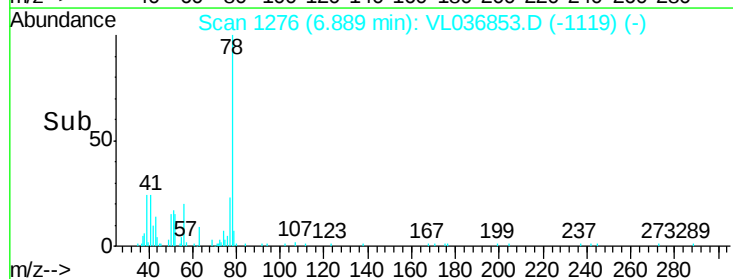
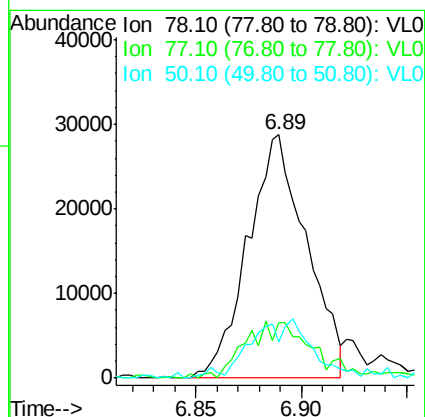
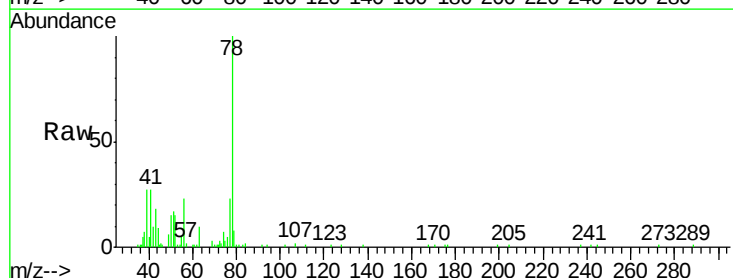
RT: 6.89 min Scan# 1276

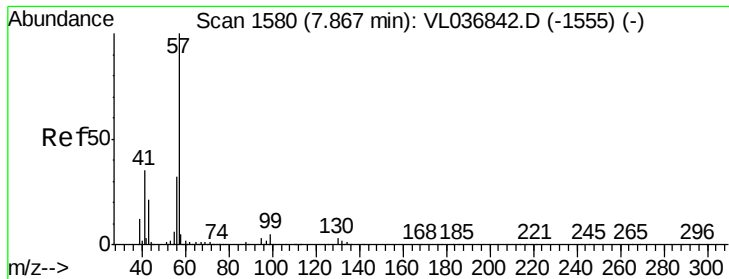
Delta R.T. 0.00 min

Lab File: VL036853.D

Acq: 27 Apr 2021 11:56

Tgt Ion: 78 Resp: 55588
Ion Ratio Lower Upper
78 100
77 21.0 17.6 26.4
50 14.8 16.3 24.5#



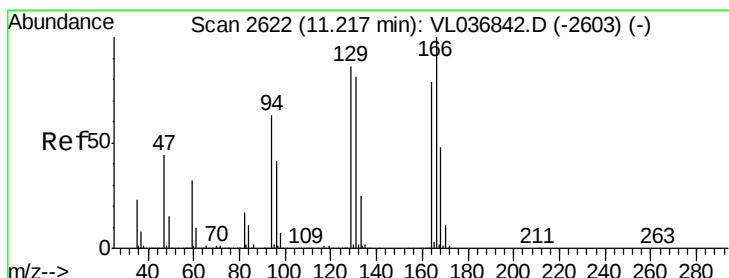
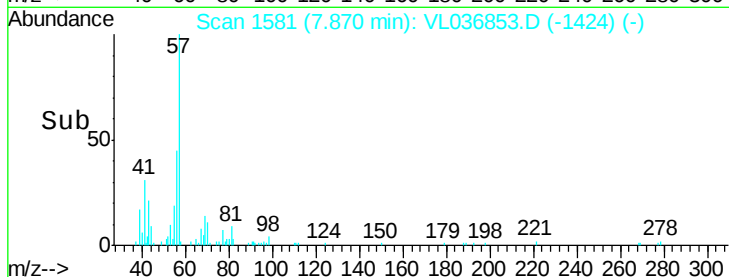
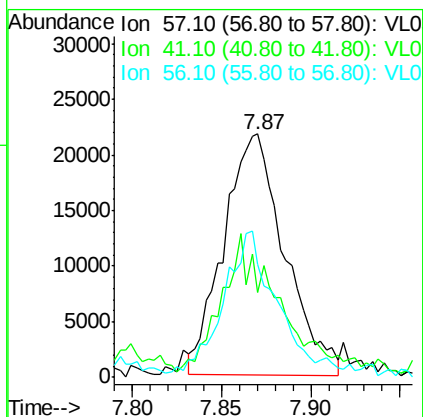
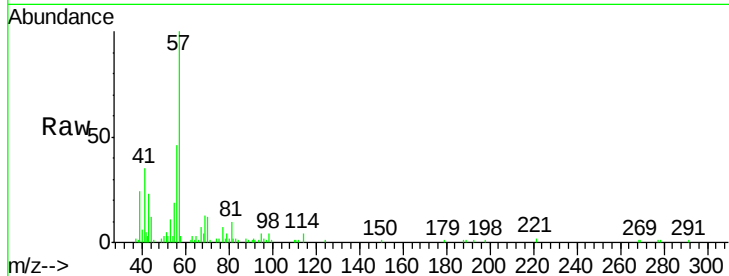


#44
2,2,4-Trimethylpentane
Concen: 0.112 ppbv
RT: 7.87
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 27 Apr 2021 11:56

Tot Ion:
Ion Ratio
57 100
41 63.
56 57.

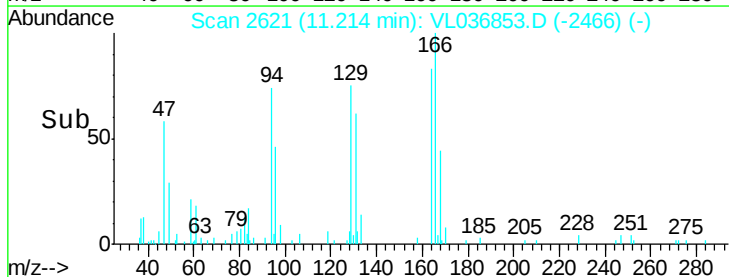
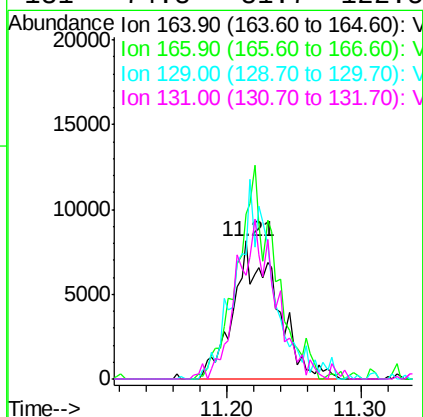
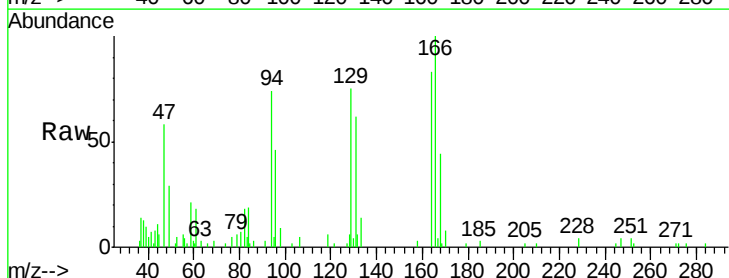
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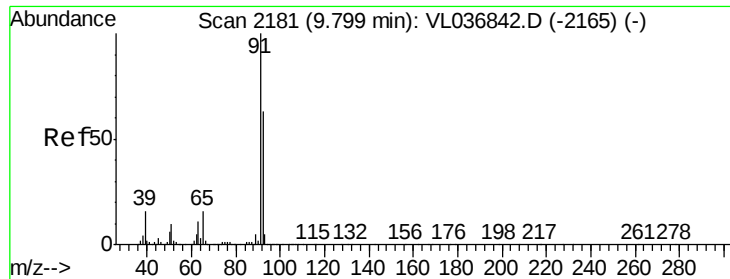
Reviewed By :Semsettin Yesilyurt 04/29/2021
Supervised By :Mahesh Dadoda 04/29/2021



#52
Tetrachloroethene
Concen: 0.199 ppbv m
RT: 11.21 min Scan# 2621
Delta R.T. -0.00 min
Lab File: VL036853.D
Acq: 27 Apr 2021 11:56

Tgt Ion:164 Resp: 18265
Ion Ratio Lower Upper
164 100
166 119.9 100.9 151.3
129 90.2 87.0 130.4
131 74.8 81.7 122.5#





#53

Toluene

Concen: 0.875 ppbv

RT: 9.81

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 27 Apr 2021 11:56

Tot Ion:

Ion Ratio

91 100

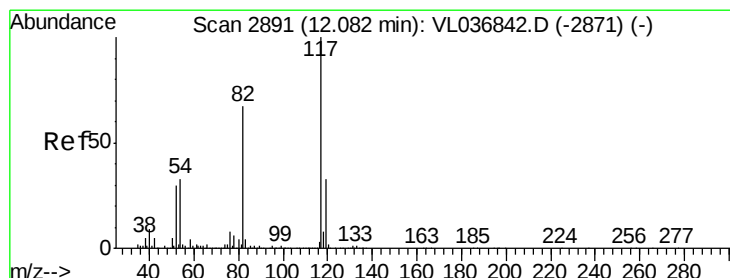
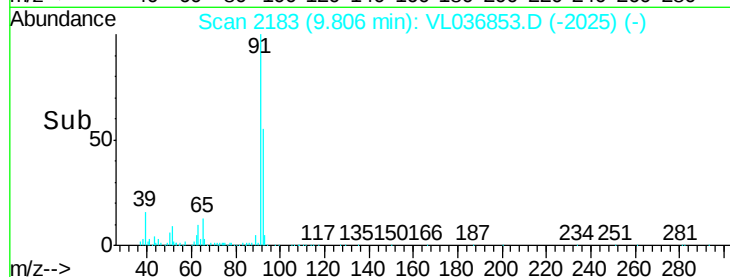
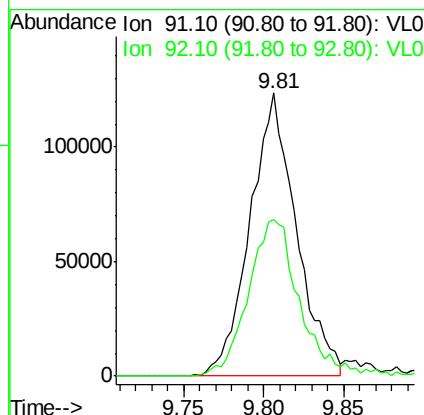
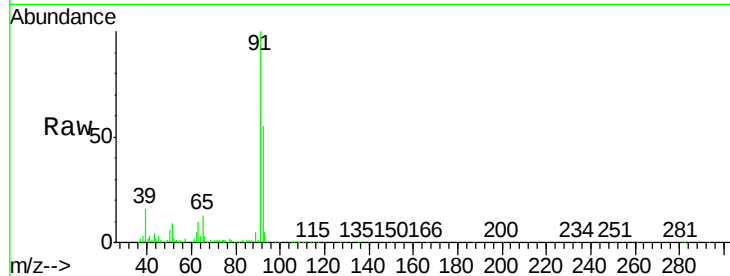
92 61.

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Reviewed By :Semsettin Yesilyurt 04/29/2021

Supervised By :Mahesh Dadoda 04/29/2021



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2892

Delta R.T. 0.00 min

Lab File: VL036853.D

Acq: 27 Apr 2021 11:56

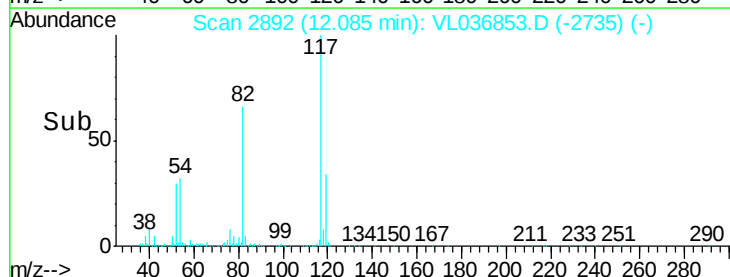
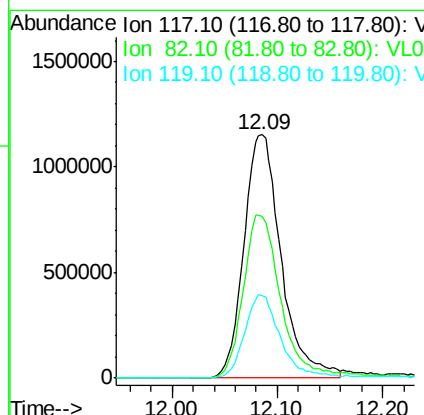
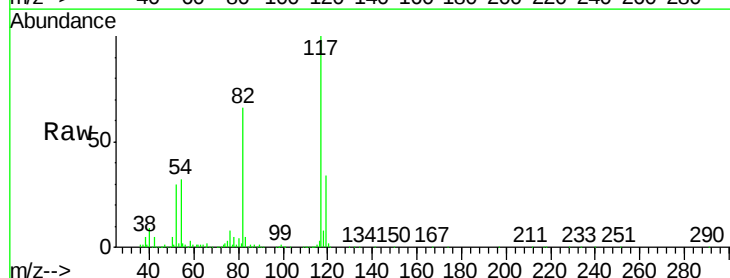
Tgt Ion:117 Resp: 2836333

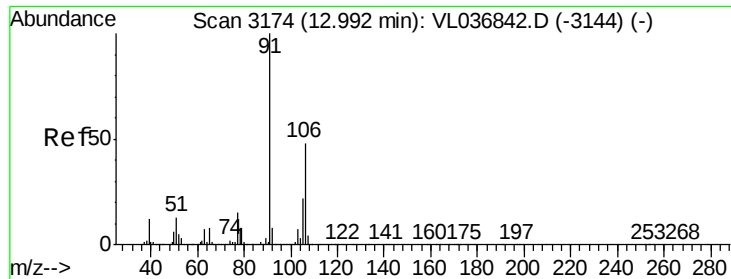
Ion Ratio Lower Upper

117 100

82 69.3 53.5 80.3

119 34.0 25.6 38.4



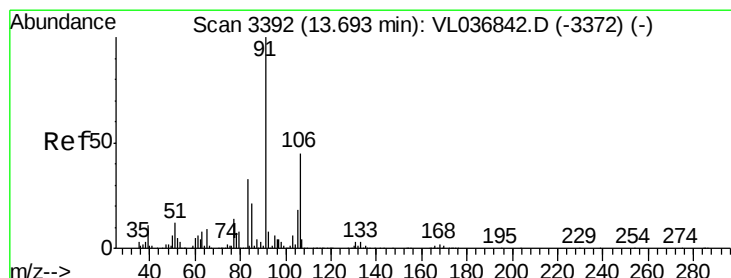
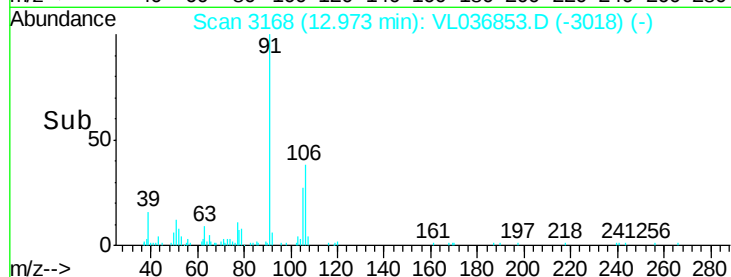
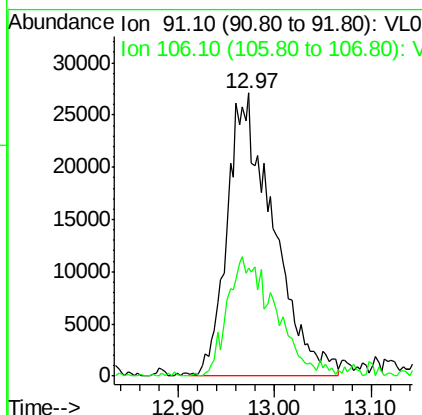
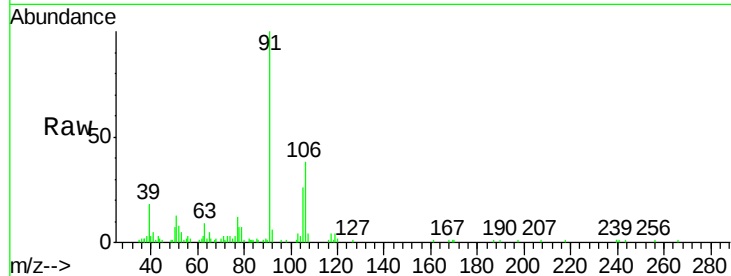


#59
m/p-Xylene
Concen: 0.280 ppbv m
RT: 12.97
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampled :
Acq: 27 Apr 2021 11:56

Tot Ion:
Ion Ratio
91 100
106 0.

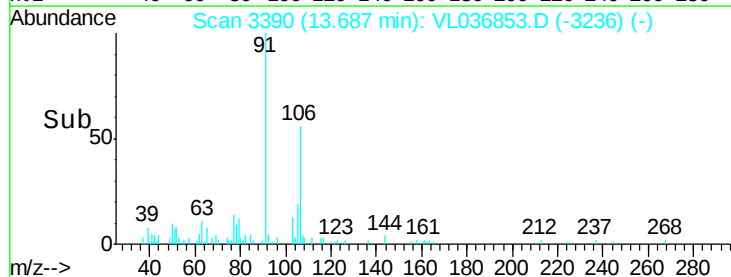
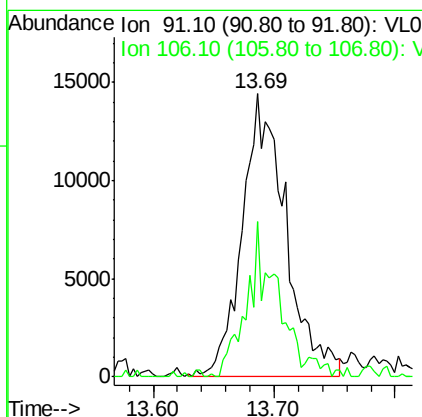
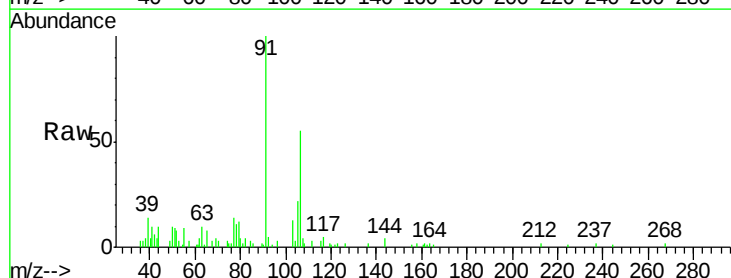
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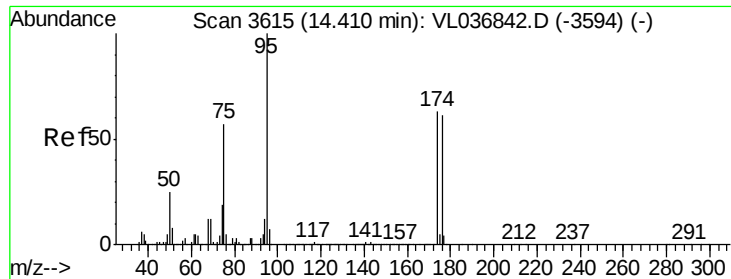
Reviewed By :Semsettin Yesilyurt 04/29/2021
Supervised By :Mahesh Dadoda 04/29/2021



#60
o-Xylene
Concen: 0.115 ppbv m
RT: 13.69 min Scan# 3390
Delta R.T. -0.01 min
Lab File: VL036853.D
Acq: 27 Apr 2021 11:56

Tgt Ion: 91 Resp: 35708
Ion Ratio Lower Upper
91 100
106 0.0 22.6 67.7#



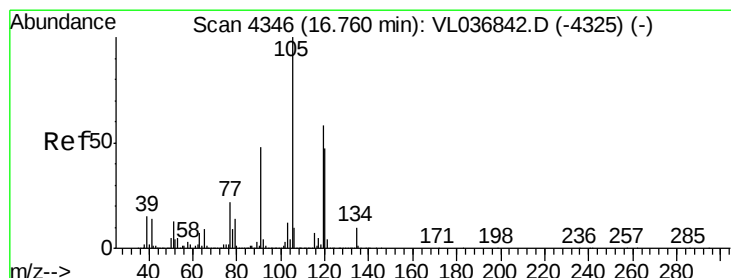
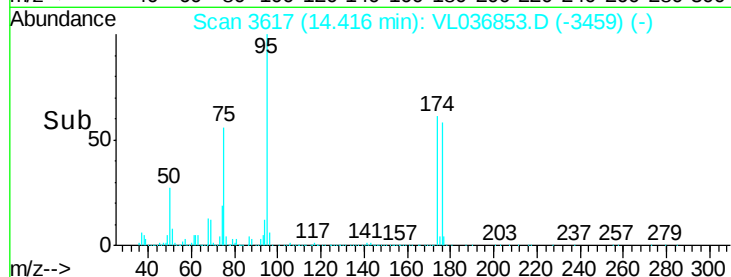
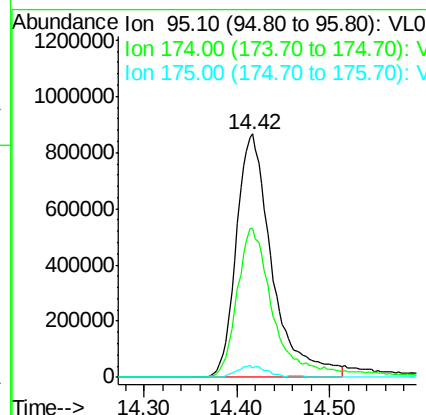
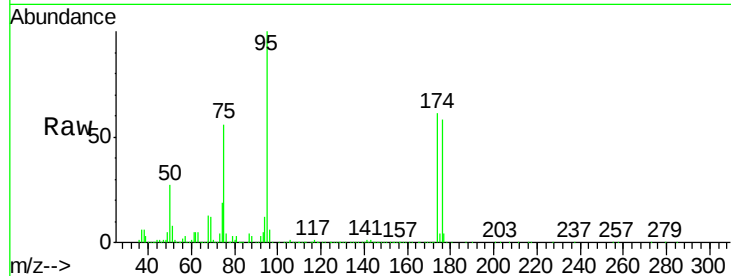


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.204 ppbv
 RT: 14.42 min
 Delta R.T.: 0.01 min
 Lab File: VL036842.D
 Acq: 27 Apr 2021 11:56

Tot Ion:
 Ion Ratio
 95 100
 174 64.1
 175 4.1

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/29/2021
 Supervised By :Mahesh Dadoda 04/29/2021



#74
 1,2,4-Trimethylbenzene
 Concen: 0.098 ppbv m
 RT: 16.77 min Scan# 4349
 Delta R.T.: 0.01 min
 Lab File: VL036853.D
 Acq: 27 Apr 2021 11:56

Tgt Ion:105 Resp: 33557
 Ion Ratio Lower Upper
 105 100
 120 36.4 37.6 56.4#
 91 10.9 39.0 58.4#
 77 20.4 17.4 26.0

