

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL042721\
 Data File : VL036869.D
 Acq On : 27 Apr 2021 22:30
 Operator : SY/AP
 Sample : M2172-05
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 DDC-2-EFFLUENT

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/28/2021
 Supervised By : Mahesh Dadoda 04/29/2021

Quant Time: Apr 29 16:27:45 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	5.67	49	1564340	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.18	114	3624955	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.10	117	3315983	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2568315	9.65	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.50%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.05	85	60290	0.245	ppbv	99
3) Chlorodifluoromethane	2.99	51	94882m	0.333	ppbv	
4) Chloromethane	3.15	50	44286	0.473	ppbv	97
9) Propene	3.02	41	81408m	0.938	ppbv	
11) Trichlorofluoromethane	3.96	101	46921	0.213	ppbv	88
13) Ethanol	3.62	45	7317196	660.802	ppbv	93
15) Acetone	3.85	43	4241677	28.769	ppbv	97
17) tert-Butyl alcohol	4.31	59	322210	2.692	ppbv #	93
19) Isopropyl Alcohol	3.99	45	5401355	73.936	ppbv #	96
20) Methylene Chloride	4.35	84	53960	0.765	ppbv #	85
26) Hexane	5.69	57	58760	0.349	ppbv #	81
29) Chloroform	5.75	83	73813m	0.281	ppbv	
30) Cyclohexane	7.17	84	41183m	0.308	ppbv	
31) cis-1,2-Dichloroethene	5.56	61	52445m	0.347	ppbv	
34) 2-Butanone	5.25	43	434316	2.735	ppbv	97
35) Carbon Tetrachloride	7.03	117	29127m	0.118	ppbv	
36) Benzene	6.90	78	67570m	0.221	ppbv	
41) Tetrahydrofuran	6.06	42	17402m	0.251	ppbv	
44) 2,2,4-Trimethylpentane	7.88	57	65782	0.126	ppbv #	51
50) 4-Methyl-2-Pentanone	8.76	43	35997	0.166	ppbv	97
52) Tetrachloroethene	11.23	164	13088m	0.126	ppbv	
53) Toluene	9.82	91	313898	0.982	ppbv	99
59) m/p-Xylene	12.98	91	111704m	0.297	ppbv	
60) o-Xylene	13.70	91	48874	0.134	ppbv	93
74) 1,2,4-Trimethylbenzene	16.78	105	62126	0.155	ppbv #	65

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

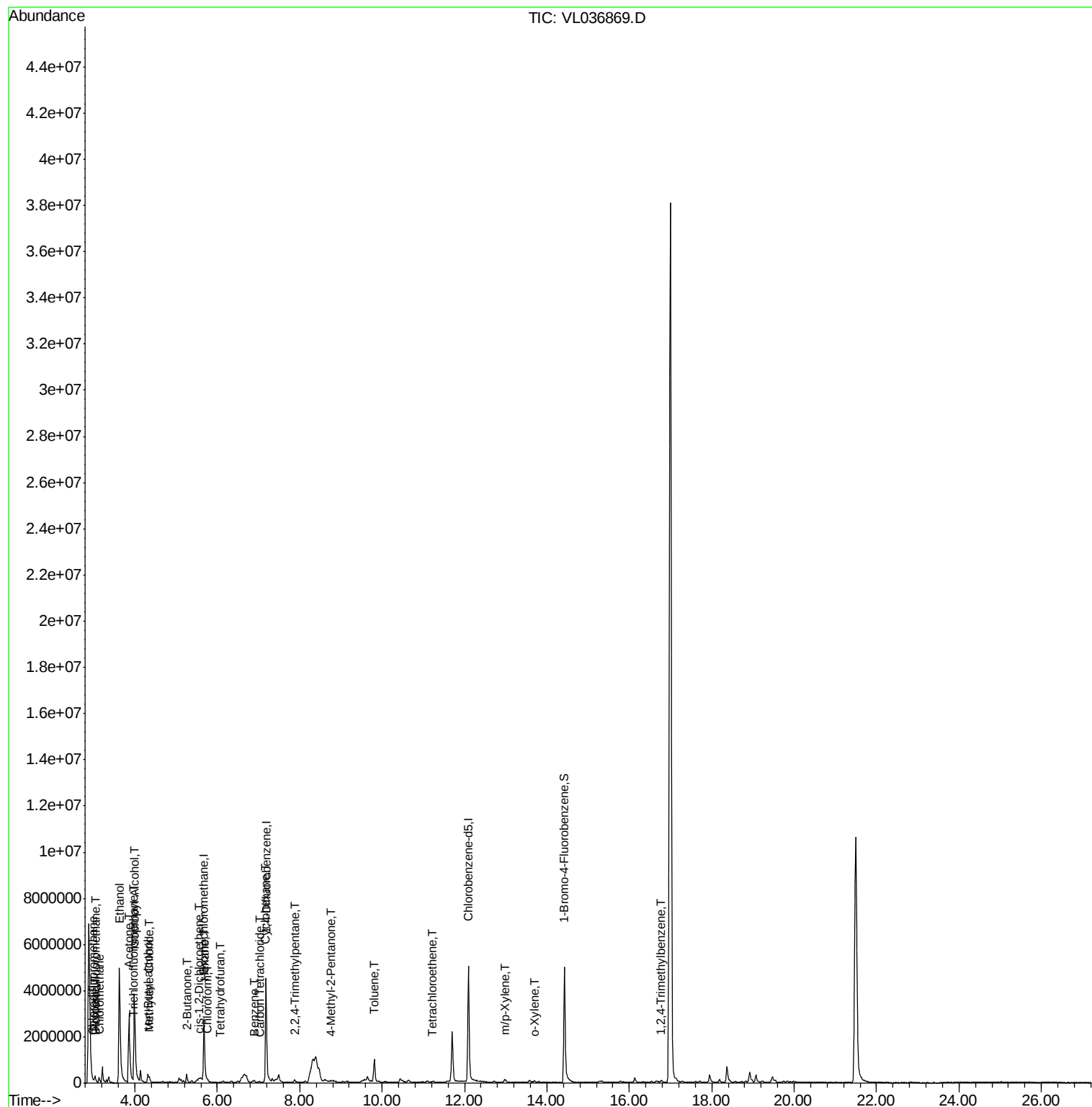
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL042721\
Data File : VL036869.D
Acq On : 27 Apr 2021 22:30
Operator : SY/AP
Sample : M2172-05
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

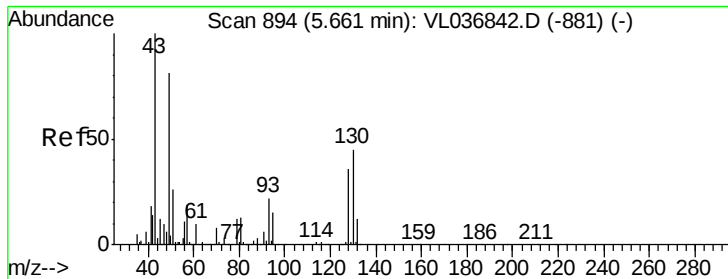
Instrument :
MSVOA_L
ClientSampleId :
DDC-2-EFFLUENT

Quant Time: Apr 29 16:27:45 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL042721
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APPROVED

Reviewed By :Semsettin Yesilyurt 04/28/2021
Supervised By :Mahesh Dadoda 04/29/2021





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 27 Apr 2021 22:30

Tot Ion:

Ion Ratio

49 100

128 45.

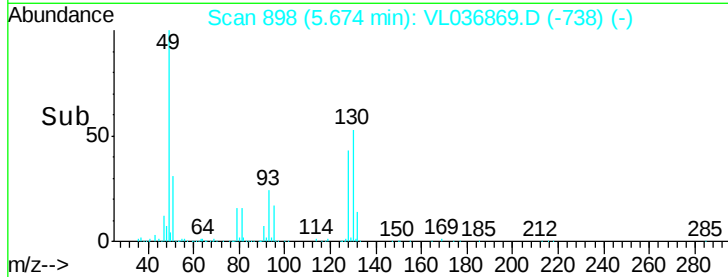
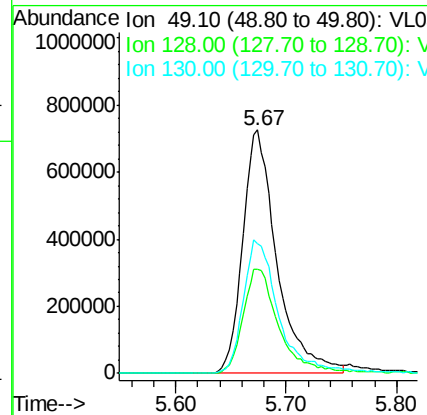
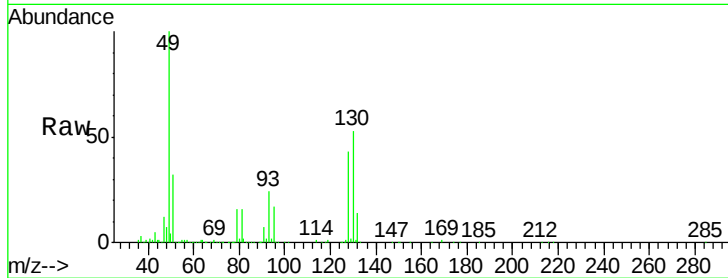
130 57.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/28/2021

Supervised By :Mahesh Dadoda 04/29/2021



#2

Dichlorodifluoromethane

Concen: 0.245 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.01 min

Lab File: VL036869.D

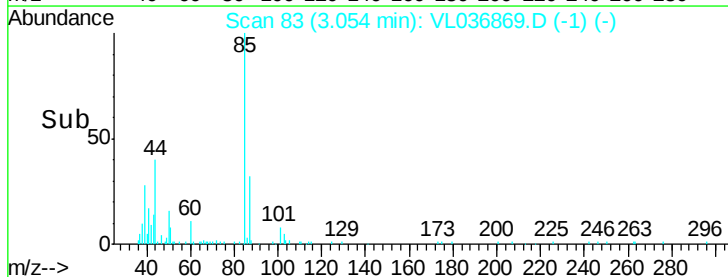
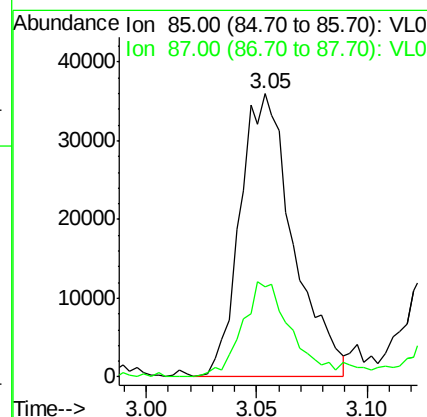
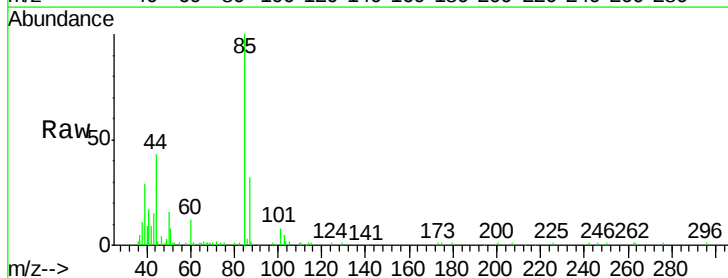
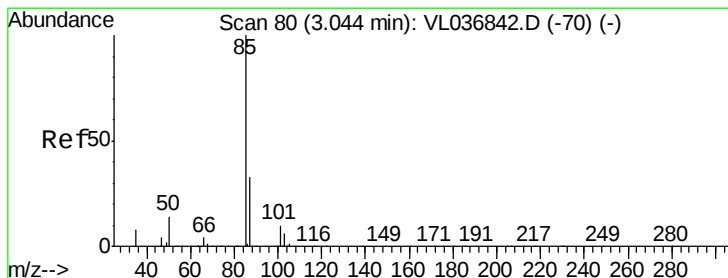
Acq: 27 Apr 2021 22:30

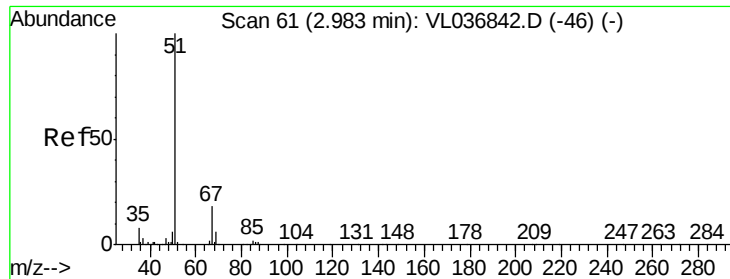
Tgt Ion: 85 Resp: 60290

Ion Ratio Lower Upper

85 100

87 32.0 26.2 39.2





#3

Chlorodifluoromethane

Concen: 0.333 ppbv m

RT: 2.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Apr 2021 22:30 DDC-2-EFFLUENT

Tot Ion:

Ion Ratio

51 100

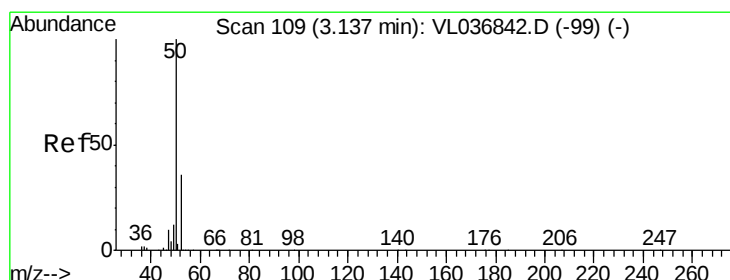
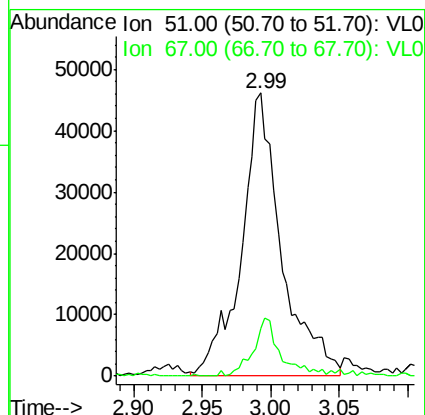
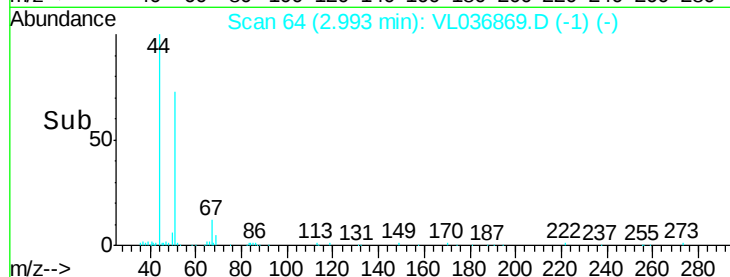
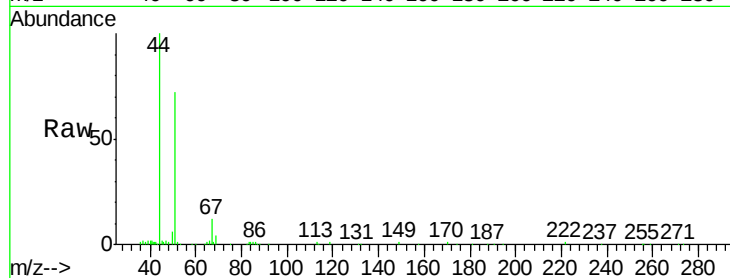
67 0.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/28/2021

Supervised By :Mahesh Dadoda 04/29/2021



#4

Chloromethane

Concen: 0.473 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.01 min

Lab File: VL036869.D

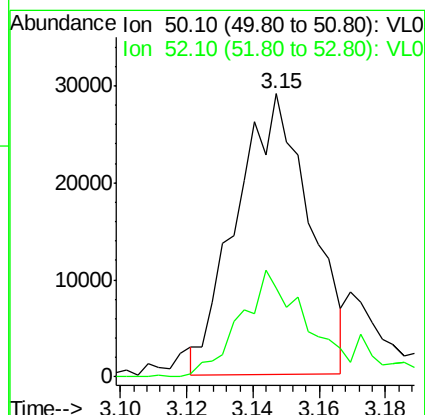
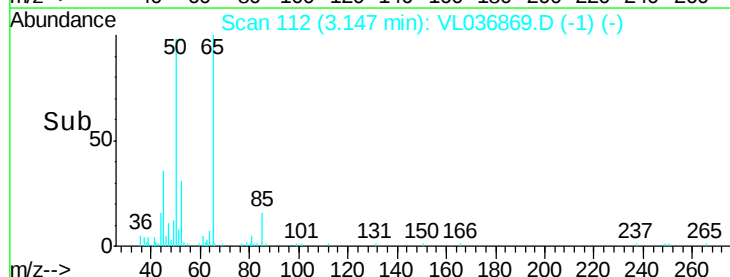
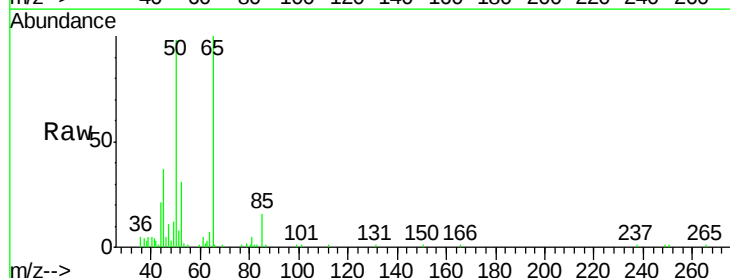
Acq: 27 Apr 2021 22:30

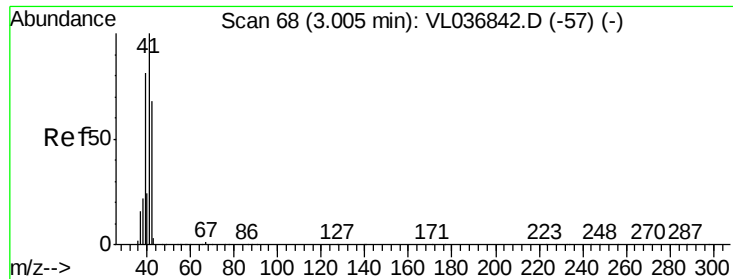
Tgt Ion: 50 Resp: 44286

Ion Ratio Lower Upper

50 100

52 33.7 28.5 42.7





#9

Propene

Concen: 0.938 ppbv m

RT: 3.02 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 27 Apr 2021 22:30 DDC-2-EFFLUENT

Tot Ion:

Ion Ratio

41 100

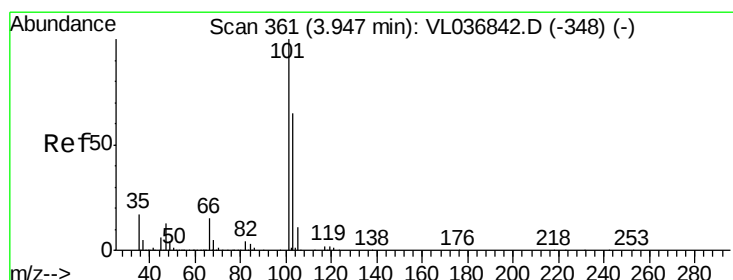
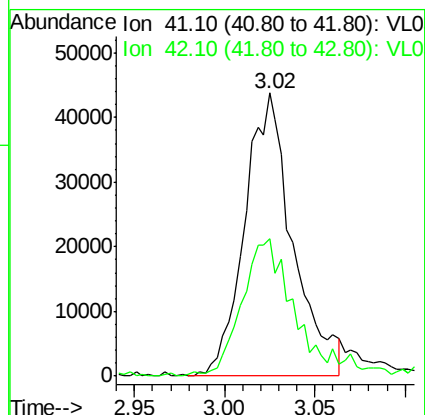
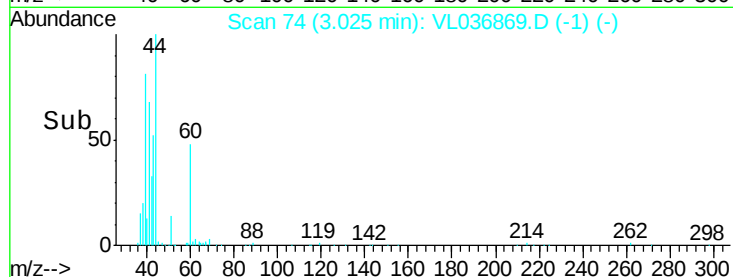
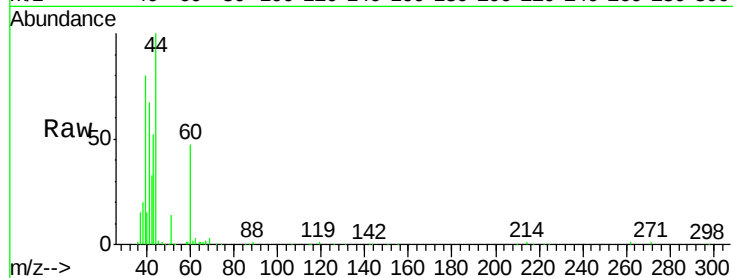
42 55.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/28/2021

Supervised By :Mahesh Dadoda 04/29/2021



#11

Trichlorofluoromethane

Concen: 0.213 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.01 min

Lab File: VL036869.D

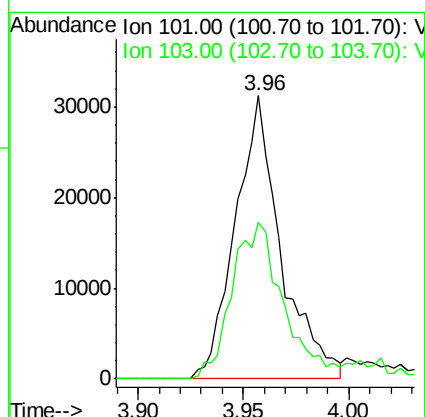
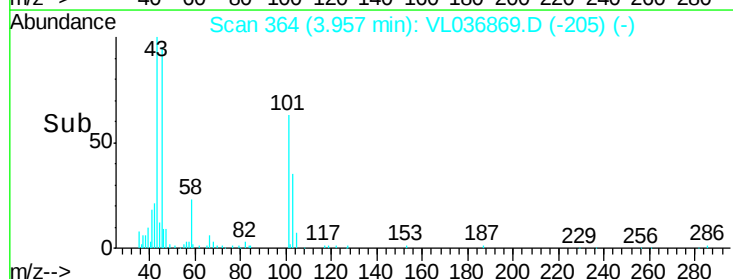
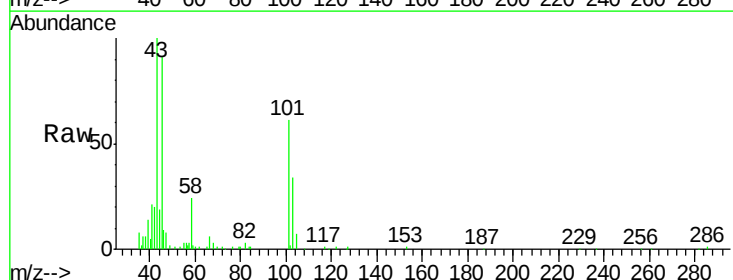
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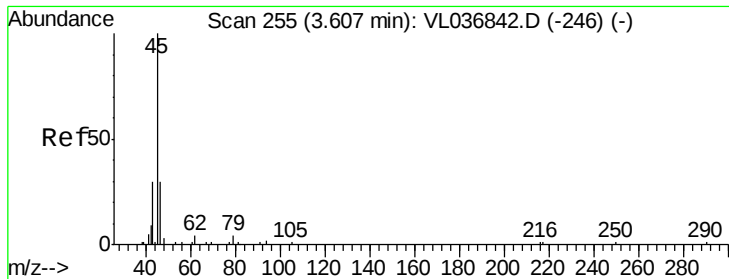
Tgt Ion:101 Resp: 46921

Ion Ratio Lower Upper

101 100

103 55.5 51.6 77.4



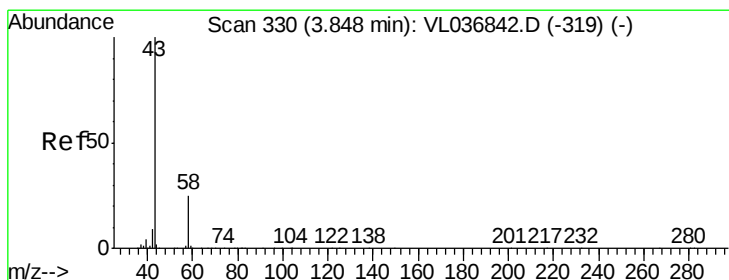
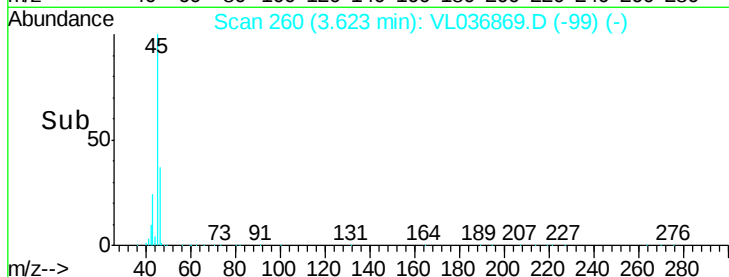
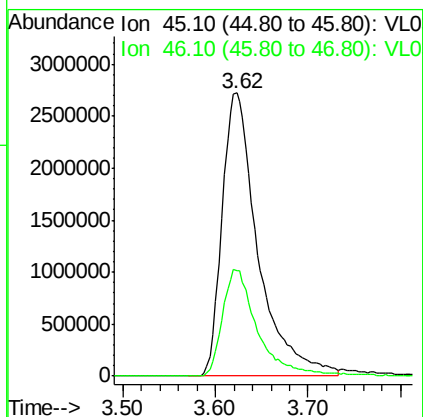
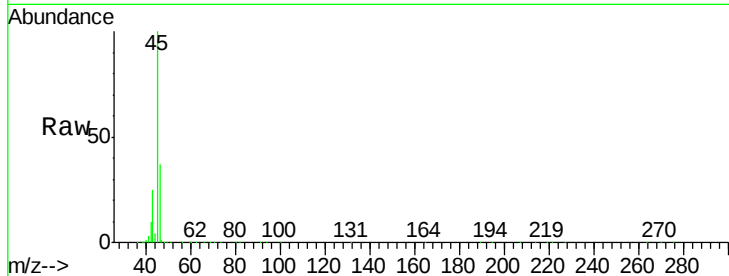


#13
 Ethanol
 Concen: 660.802 ppbv
 RT: 3.62
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 27 Apr 2021 22:30

Tot Ion:
 Ion Ratio
 45 100
 46 37.

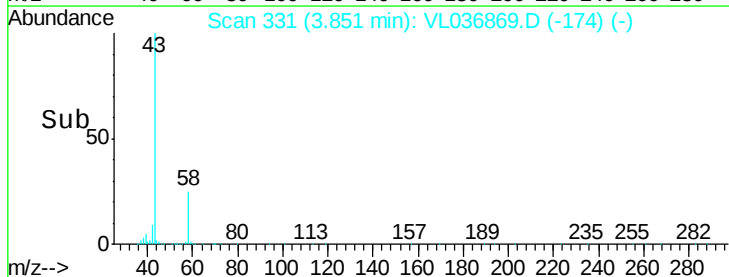
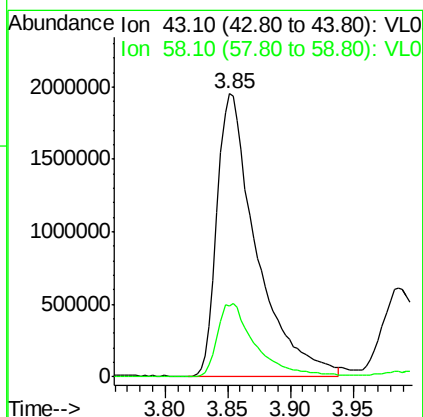
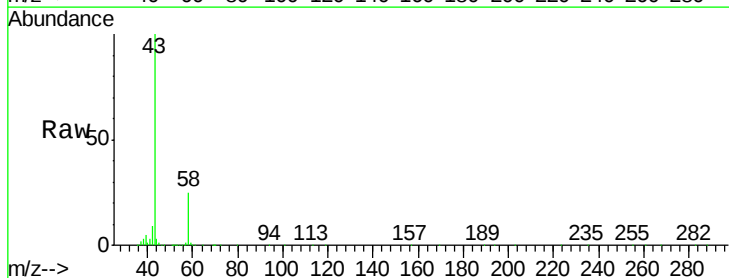
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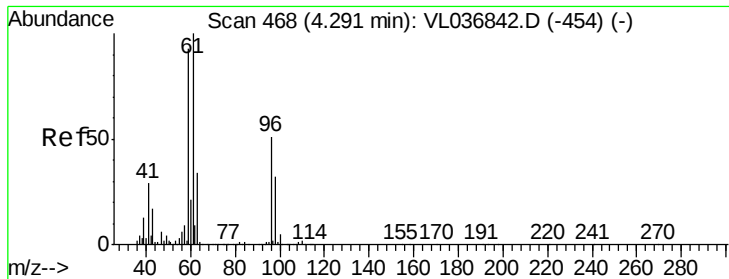
Reviewed By :Semsettin Yesilyurt 04/28/2021
 Supervised By :Mahesh Dadoda 04/29/2021



#15
 Acetone
 Concen: 28.769 ppbv
 RT: 3.85 min Scan# 331
 Delta R.T. 0.00 min
 Lab File: VL036869.D
 Acq: 27 Apr 2021 22:30

Tgt Ion: 43 Resp: 4241677
 Ion Ratio Lower Upper
 43 100
 58 25.5 21.7 32.5





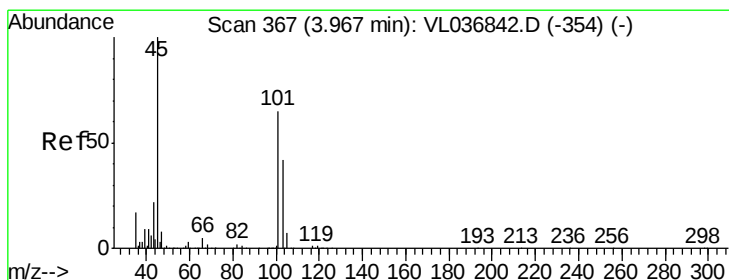
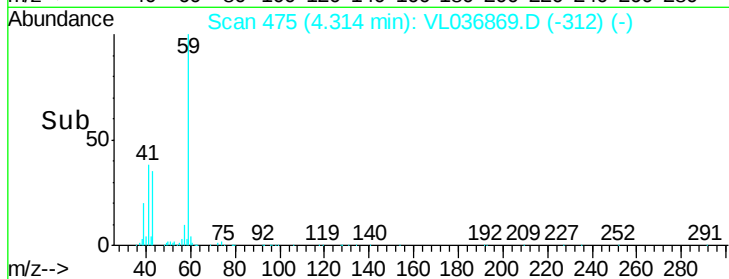
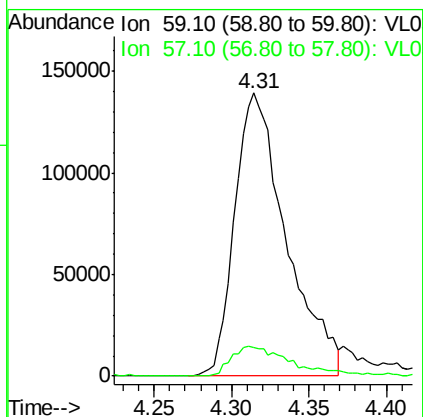
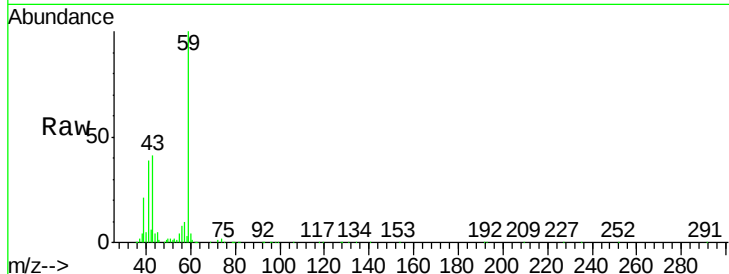
#17

tert-Butyl alcohol
Concen: 2.692 ppbv
RT: 4.31
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 27 Apr 2021 22:30

Tot Ion:
Ion Ratio
59 100
57 12.

Manual Integrations
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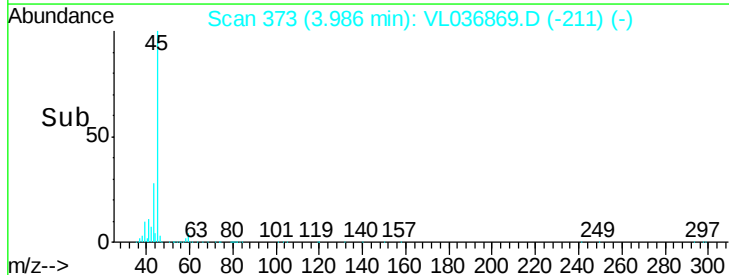
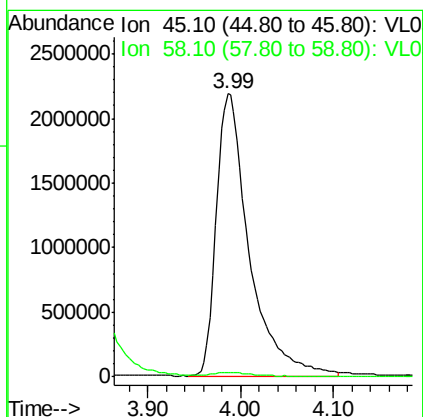
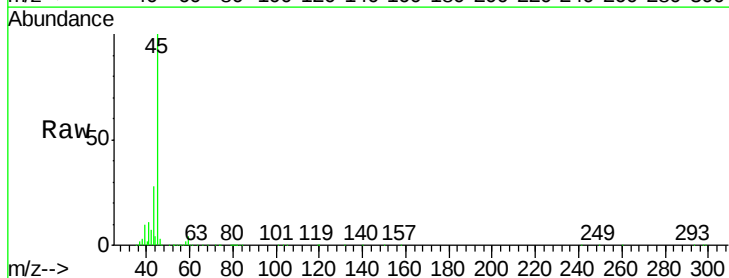
Reviewed By :Semsettin Yesilyurt 04/28/2021
Supervised By :Mahesh Dadoda 04/29/2021

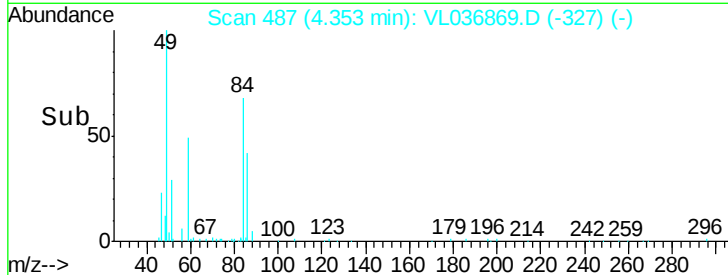
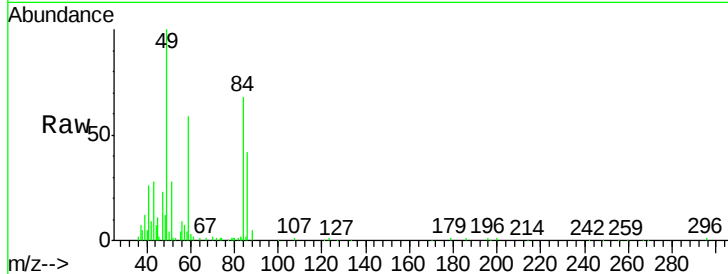
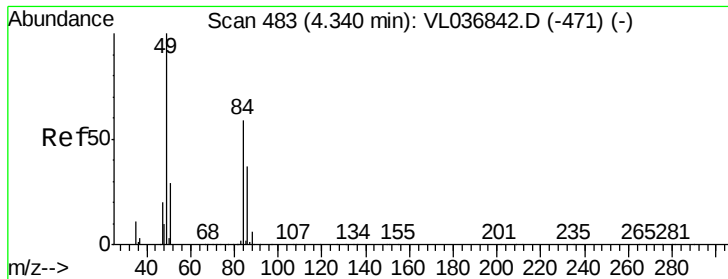


#19

Isopropyl Alcohol
Concen: 73.936 ppbv
RT: 3.99 min Scan# 373
Delta R.T. 0.02 min
Lab File: VL036869.D
Acq: 27 Apr 2021 22:30

Tgt Ion: 45 Resp: 5401355
Ion Ratio Lower Upper
45 100
58 2.0 2.8 4.2#



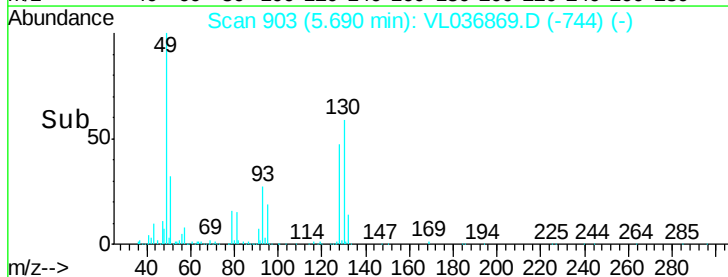
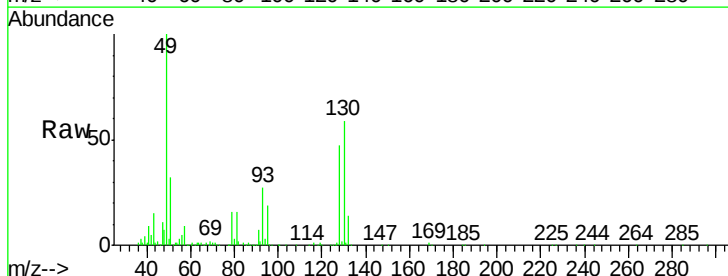
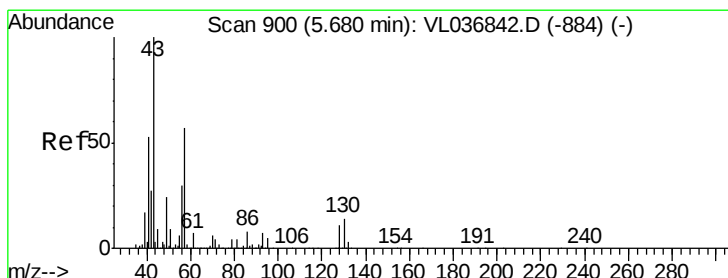
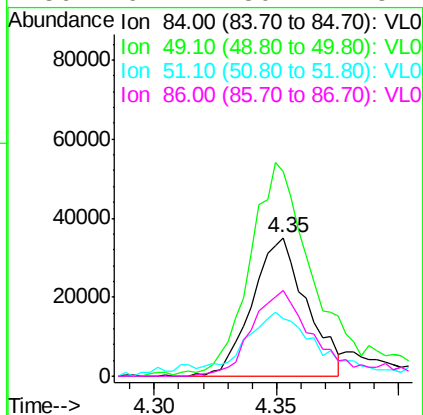


#20
Methvlene Chloride
Concen: 0.765 ppbv
RT: 4.35
Instrument: MSVOA_L
Delta R.T.
Lab File: ClientSampleId :
Acq: 27 Apr 2021 22:30

Tot Ion:
Ion Ratio
84 100
49 144.
51 33.
86 62.1 50.2 75.2

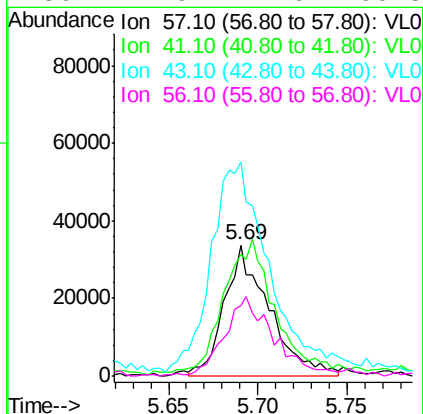
Manual Integrations
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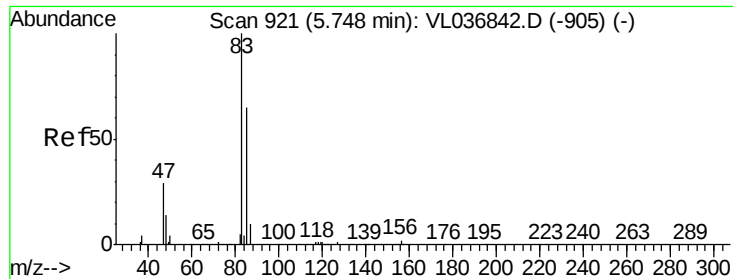
Reviewed By :Semsettin Yesilyurt 04/28/2021
Supervised By :Mahesh Dadoda 04/29/2021



#26
Hexane
Concen: 0.349 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.01 min
Lab File: VL036869.D
Acq: 27 Apr 2021 22:30

Tgt Ion: 57 Resp: 58760
Ion Ratio Lower Upper
57 100
41 119.9 77.7 116.5#
43 197.9 180.5 270.7
56 71.9 44.6 66.8#





#29

Chloroform

Concen: 0.281 ppbv m

RT: 5.75 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Apr 2021 22:30 DDC-2-EFFLUENT

Tot Ion:

Ion Ratio

83 100

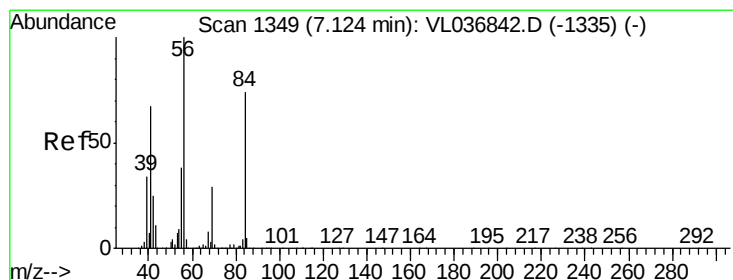
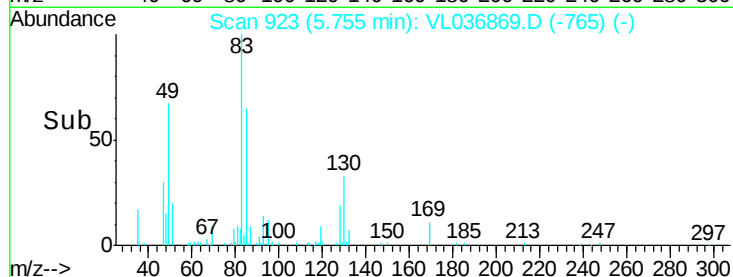
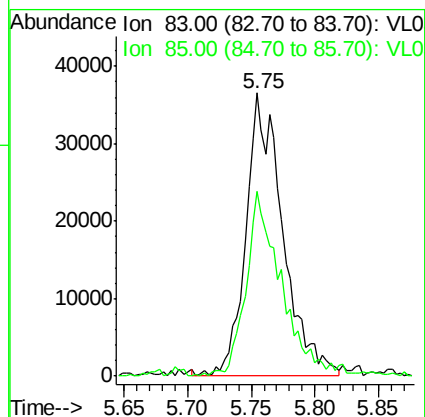
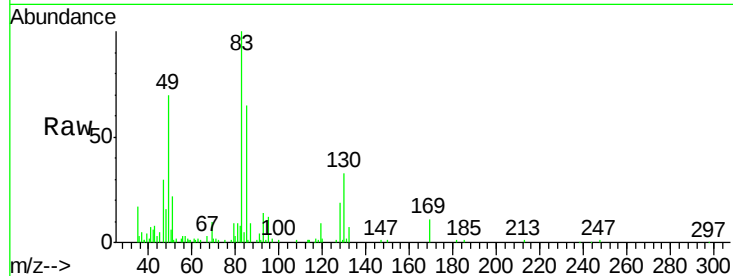
85 65.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/28/2021

Supervised By :Mahesh Dadoda 04/29/2021



#30

Cyclohexane

Concen: 0.308 ppbv m

RT: 7.17 min Scan# 1362

Delta R.T. 0.04 min

Lab File: VL036869.D

Acq: 27 Apr 2021 22:30

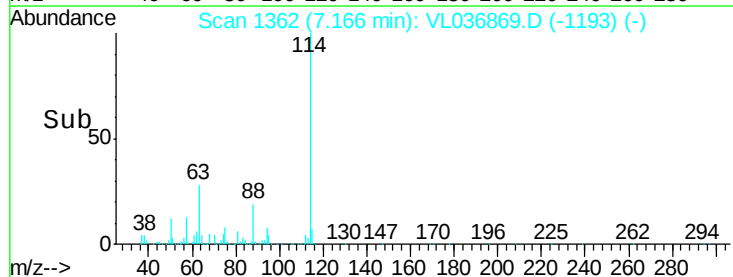
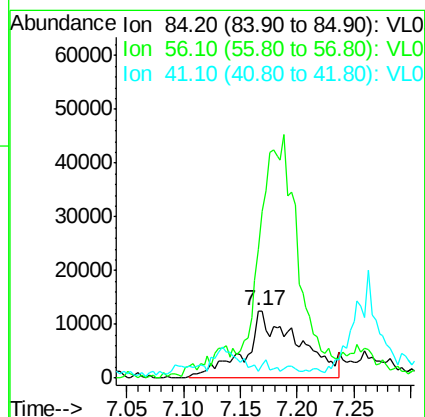
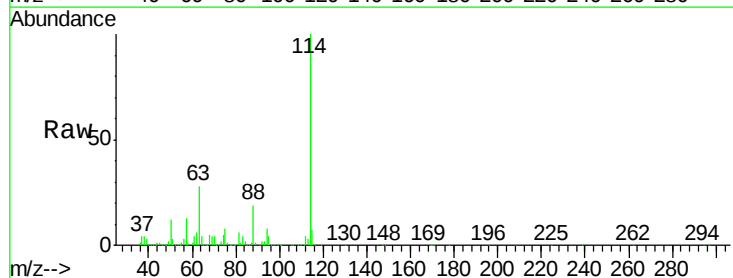
Tgt Ion: 84 Resp: 41183

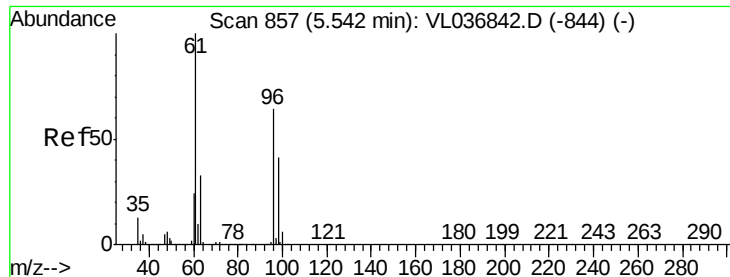
Ion Ratio Lower Upper

84 100

56 0.0 115.8 173.6#

41 0.0 74.6 111.8#



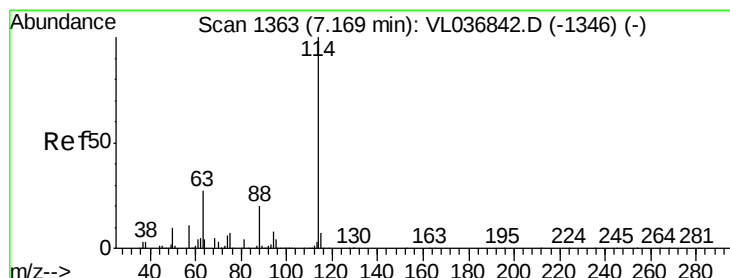
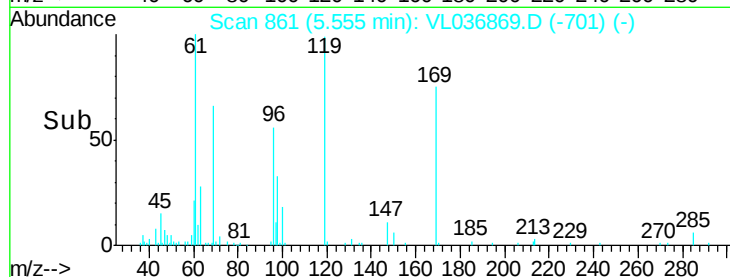
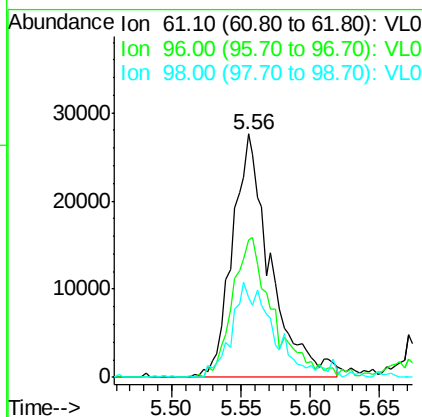
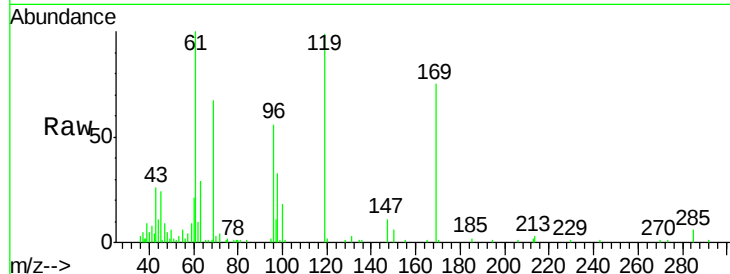


#31
 cis-1,2-Dichloroethene
 Concen: 0.347 ppbv m
 RT: 5.56
 Instrument : MSVOA_1
 Delta R.T.:
 ClientSampleId :
 Lab File: DDC-2-EFFLUENT
 Acq: 27 Apr 2021 22:30

Tot Ion:
 Ion Ratio
 61 100
 96 56.
 98 32.

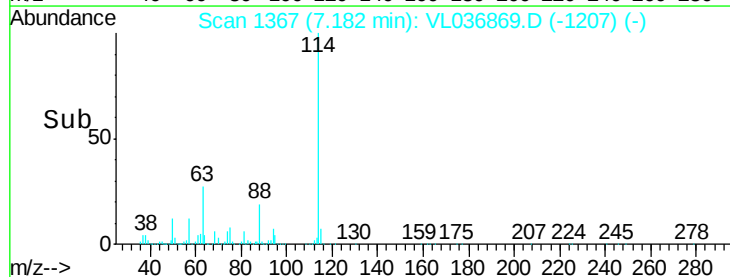
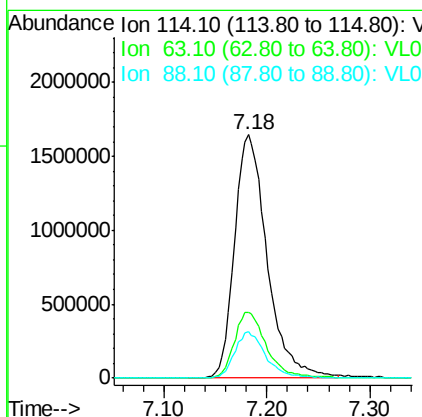
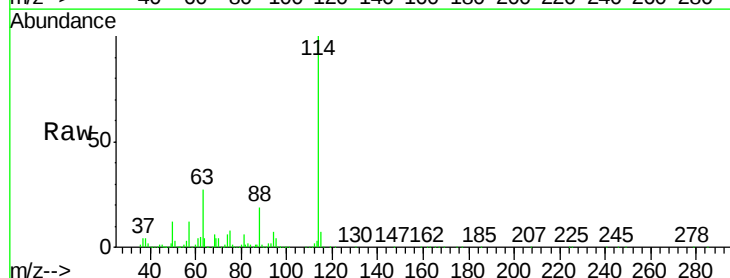
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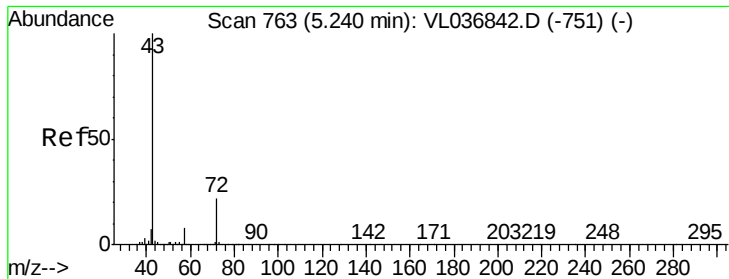
Reviewed By :Semsettin Yesilyurt 04/28/2021
 Supervised By :Mahesh Dadoda 04/29/2021



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. 0.01 min
 Lab File: VL036869.D
 Acq: 27 Apr 2021 22:30

Tgt Ion:114 Resp: 3624955
 Ion Ratio Lower Upper
 114 100
 63 27.3 21.9 32.9
 88 18.5 15.1 22.7



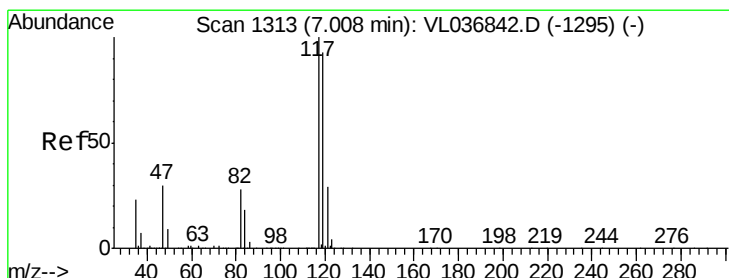
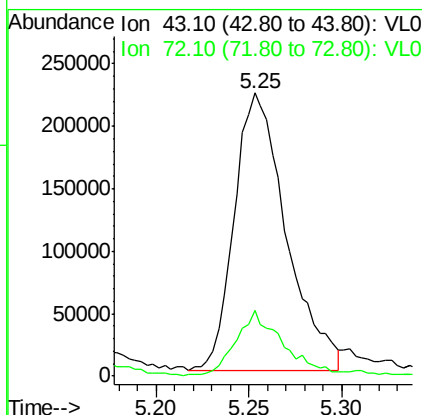
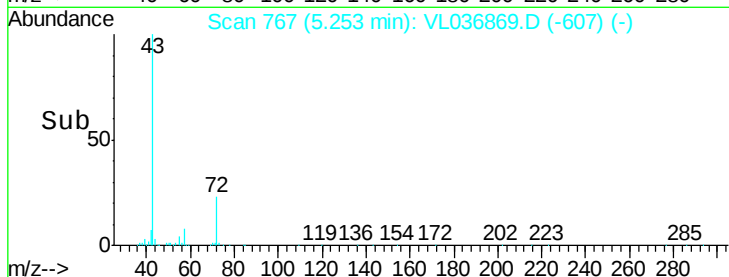
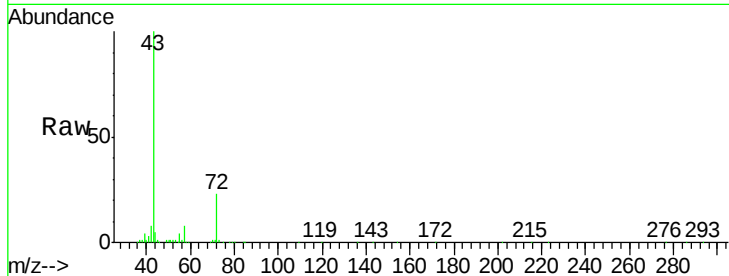


#34
2-Butanone
Concen: 2.735 ppbv
RT: 5.25
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 27 Apr 2021 22:30

Tot Ion:
Ion Ratio
43 100
72 23.

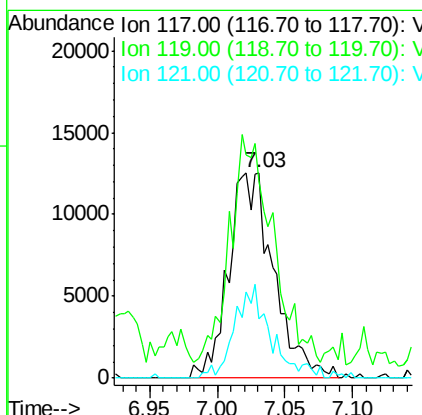
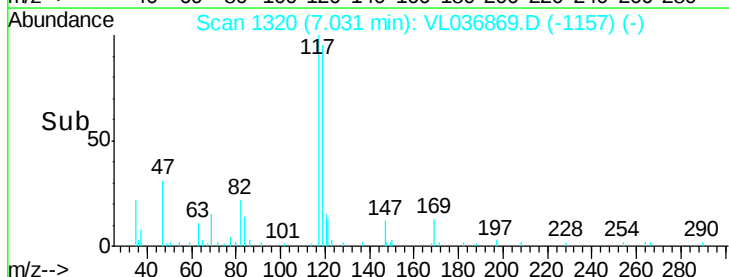
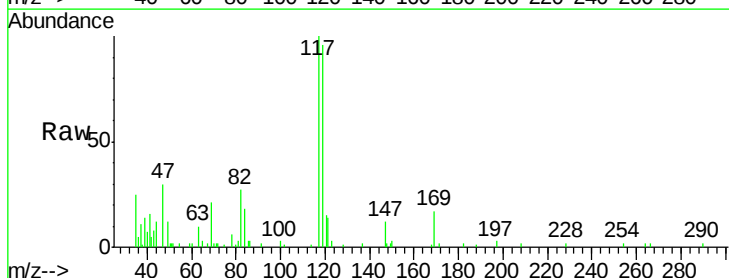
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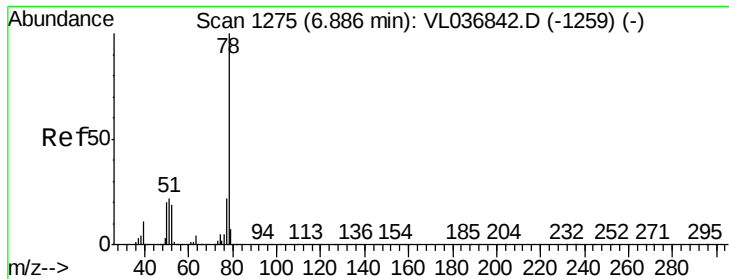
Reviewed By :Semsettin Yesilyurt 04/28/2021
Supervised By :Mahesh Dadoda 04/29/2021



#35
Carbon Tetrachloride
Concen: 0.118 ppbv m
RT: 7.03 min Scan# 1320
Delta R.T. 0.02 min
Lab File: VL036869.D
Acq: 27 Apr 2021 22:30

Tgt Ion:117 Resp: 29127
Ion Ratio Lower Upper
117 100
119 96.0 74.6 111.8
121 15.0 23.3 34.9#



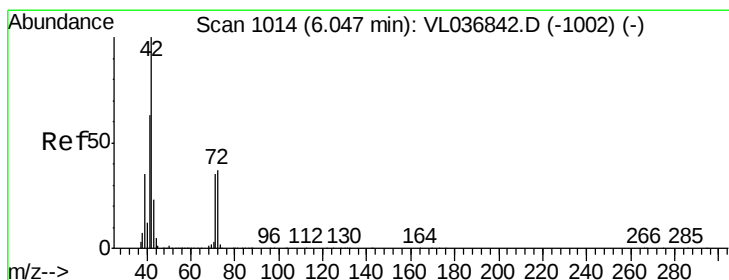
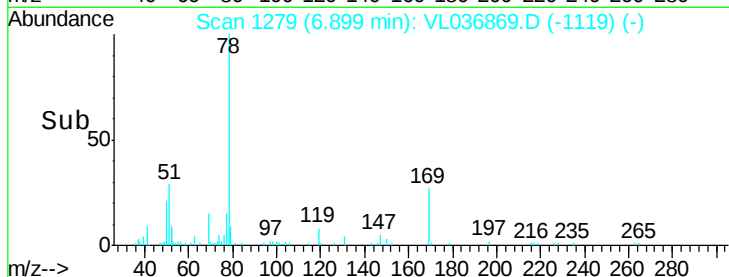
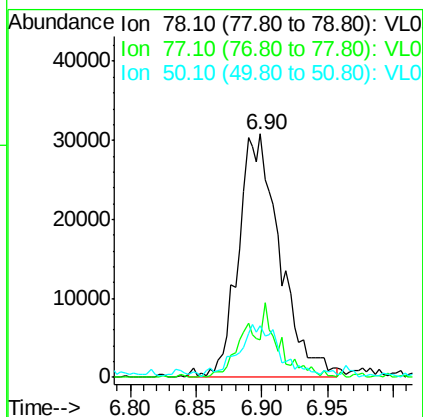
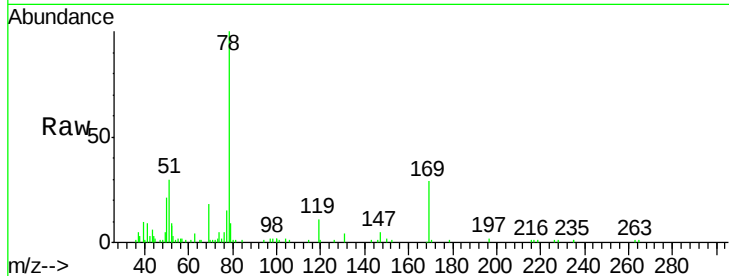


#36
Benzene
Concen: 0.221 ppbv m
RT: 6.90
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 27 Apr 2021 22:30

Tot Ion:
Ion Ratio
78 100
77 15.
50 21.

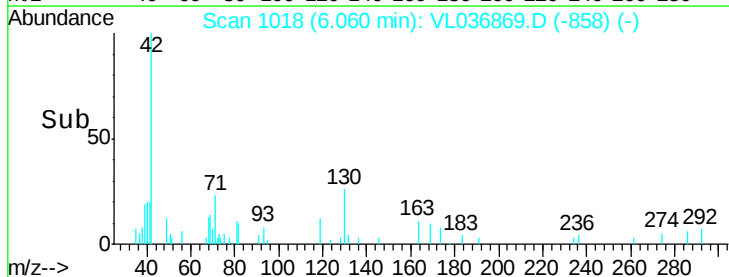
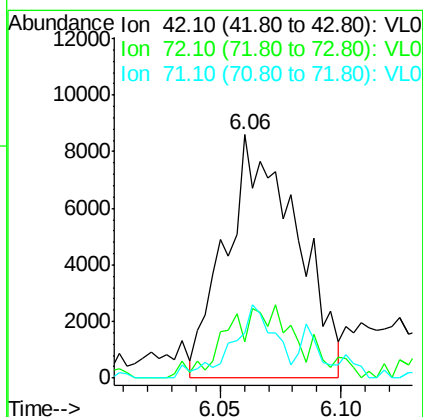
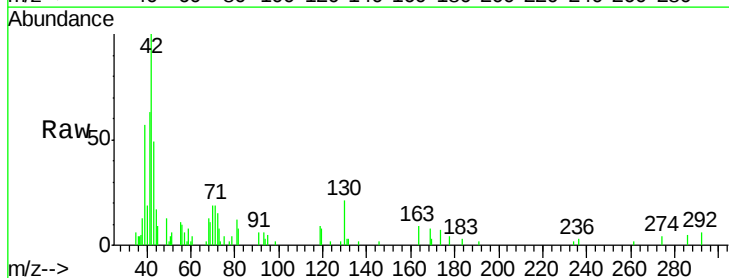
Manual Integrations
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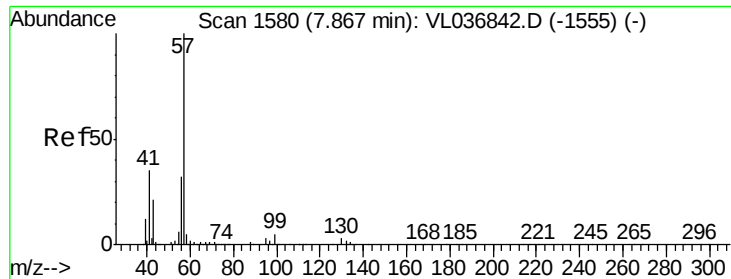
Reviewed By :Semsettin Yesilyurt 04/28/2021
Supervised By :Mahesh Dadoda 04/29/2021



#41
Tetrahydrofuran
Concen: 0.251 ppbv m
RT: 6.06 min Scan# 1018
Delta R.T. 0.01 min
Lab File: VL036869.D
Acq: 27 Apr 2021 22:30

Tgt Ion: 42 Resp: 17402
Ion Ratio Lower Upper
42 100
72 0.0 29.7 44.5#
71 0.0 29.0 43.6#



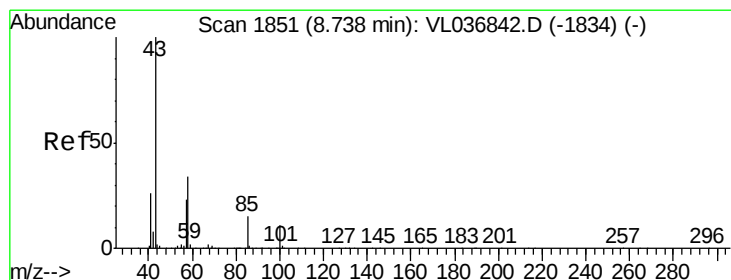
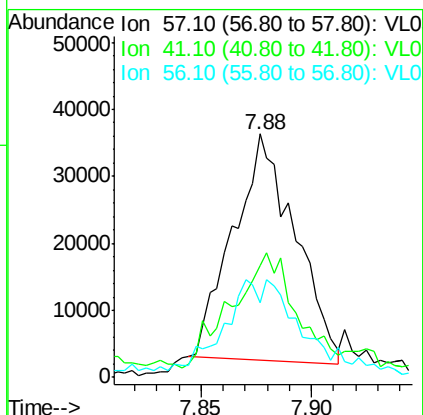
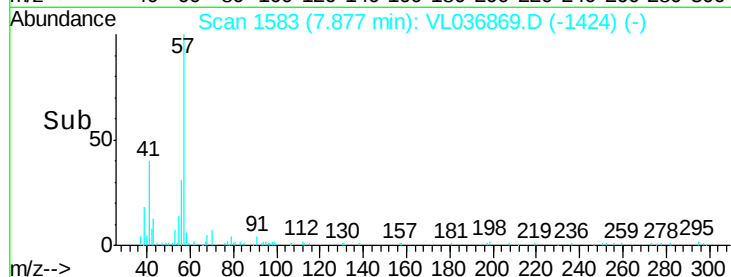
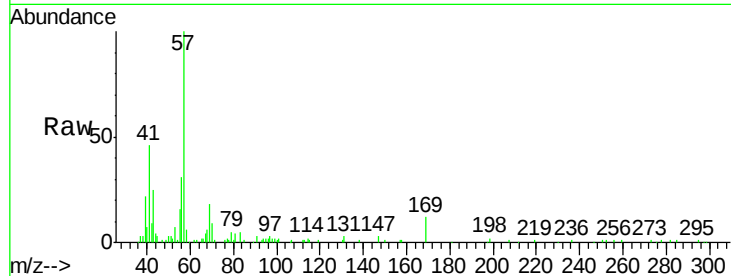


#44
 2,2,4-Trimethylpentane
 Concen: 0.126 ppbv
 RT: 7.88
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 27 Apr 2021 22:30

Tot Ion:
 Ion Ratio
 57 100
 41 67.
 56 56.

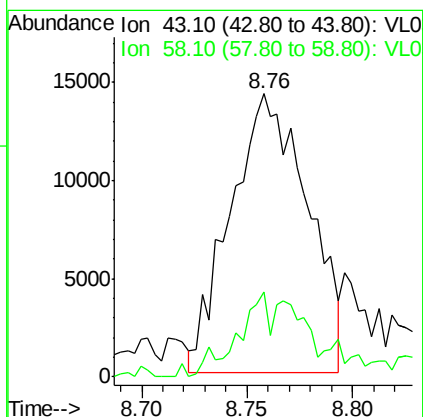
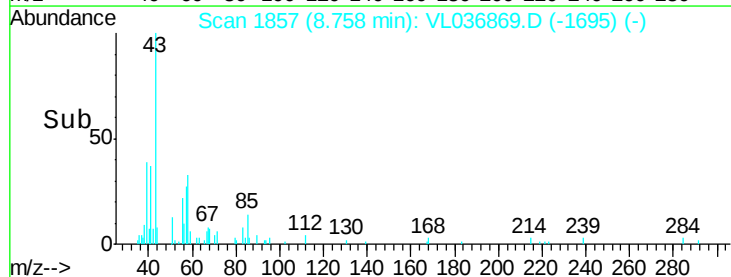
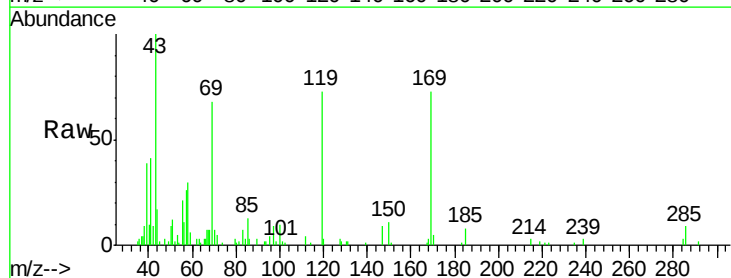
Manual Integrations
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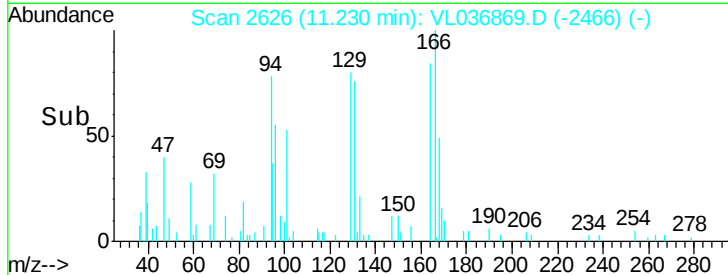
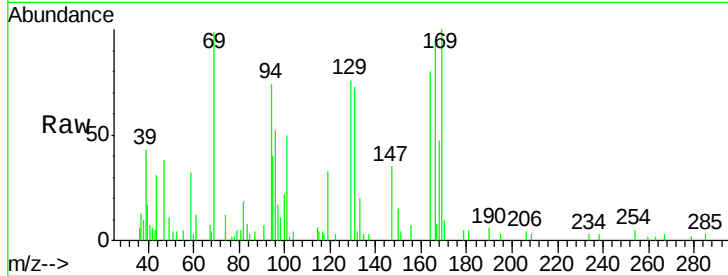
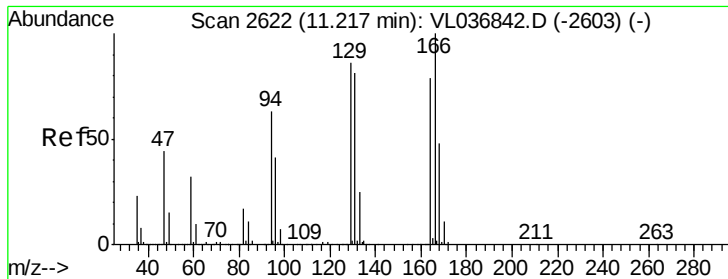
Reviewed By :Semsettin Yesilyurt 04/28/2021
 Supervised By :Mahesh Dadoda 04/29/2021



#50
 4-Methyl-2-Pentanone
 Concen: 0.166 ppbv
 RT: 8.76 min Scan# 1857
 Delta R.T. 0.02 min
 Lab File: VL036869.D
 Acq: 27 Apr 2021 22:30

Tgt Ion: 43 Resp: 35997
 Ion Ratio Lower Upper
 43 100
 58 33.1 27.8 41.8



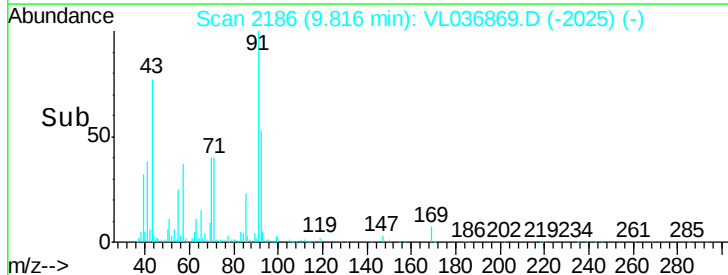
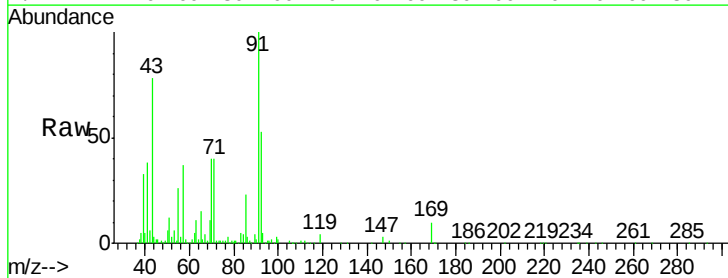
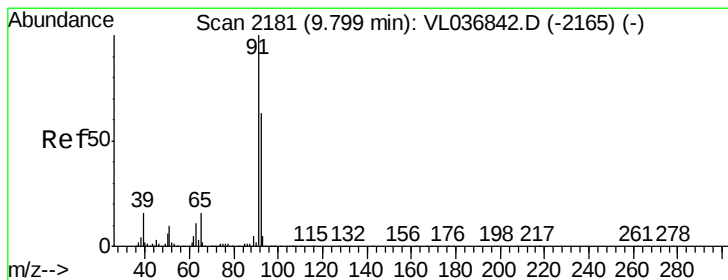
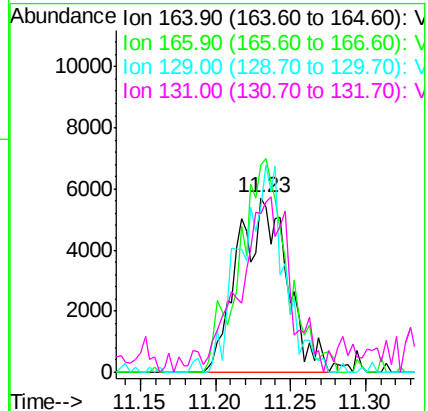


#52
Tetrachloroethene
Concen: 0.126 ppbv m
RT: 11.23
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
Acq: 27 Apr 2021 22:30

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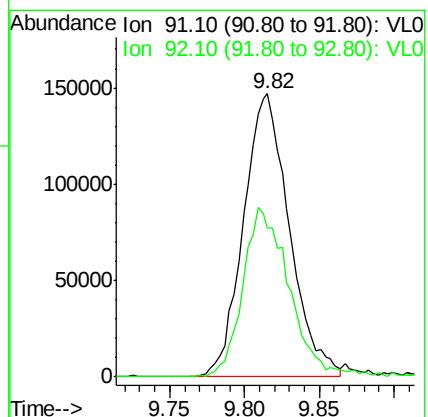
Reviewed By :Semsettin Yesilyurt 04/28/2021
Supervised By :Mahesh Dadoda 04/29/2021

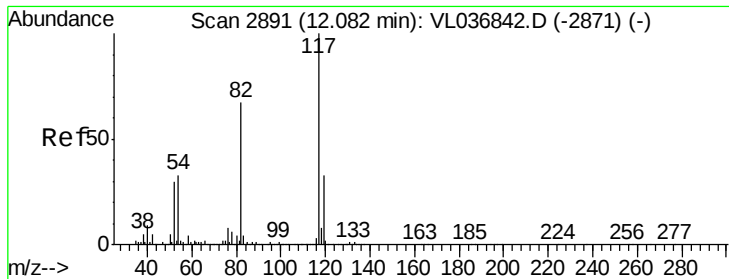
Tot Ion:1
Ion Rati
164 100
166 118.
129 94.
131 90.7 81.7 122.5



#53
Toluene
Concen: 0.982 ppbv
RT: 9.82 min Scan# 2186
Delta R.T. 0.02 min
Lab File: VL036869.D
Acq: 27 Apr 2021 22:30

Tgt Ion: 91 Resp: 313898
Ion Ratio Lower Upper
91 100
92 60.5 49.0 73.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Apr 2021 22:30

Tot Ion:1

Ion Rati

117 100

82 69.

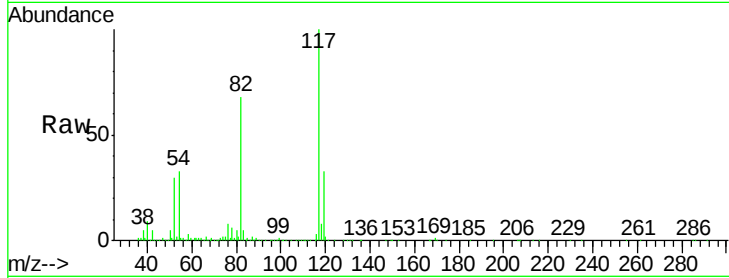
119 34.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/28/2021

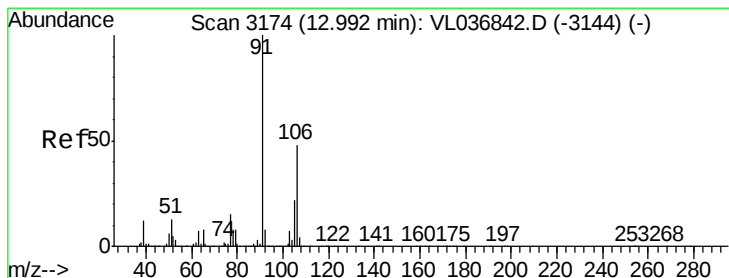
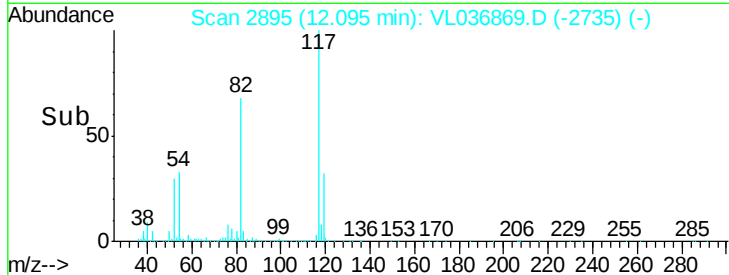
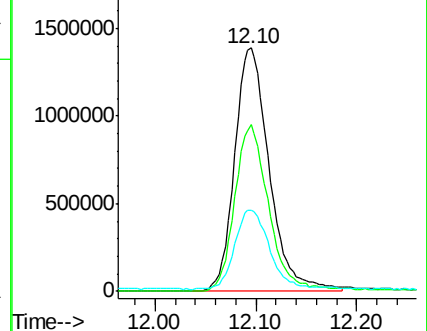
Supervised By :Mahesh Dadoda 04/29/2021



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



#59

m/p-Xylene

Concen: 0.297 ppbv m

RT: 12.98 min Scan# 3170

Delta R.T. -0.01 min

Lab File: VL036869.D

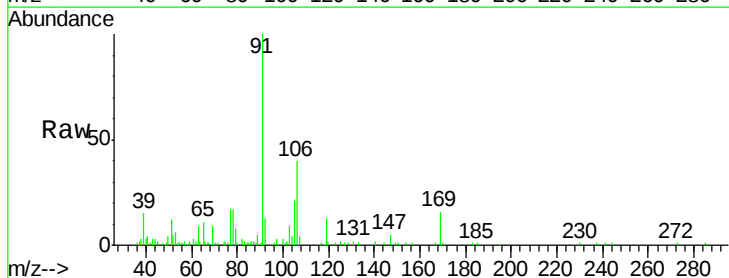
Acq: 27 Apr 2021 22:30

Tgt Ion: 91 Resp: 111704

Ion Ratio Lower Upper

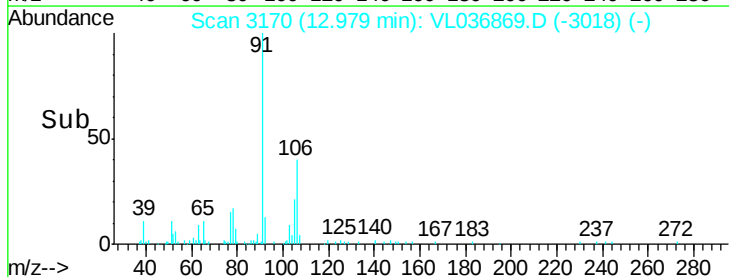
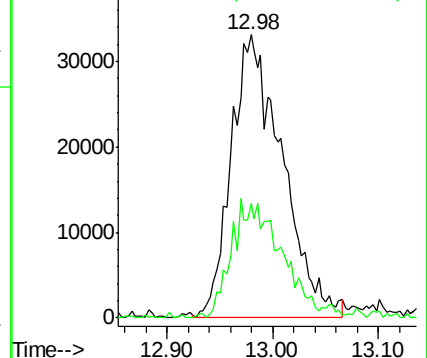
91 100

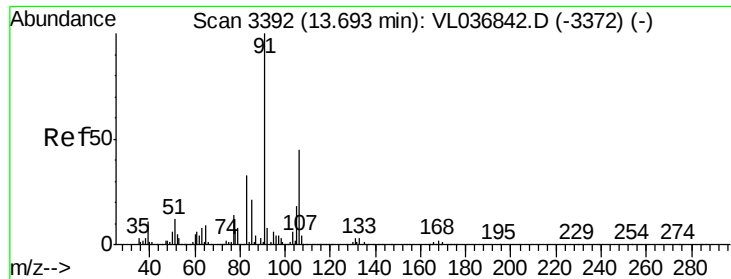
106 0.0 35.8 53.6#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



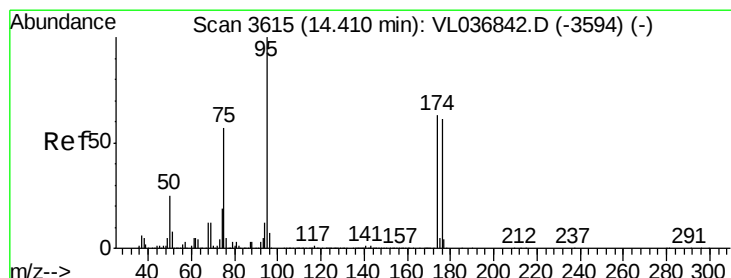
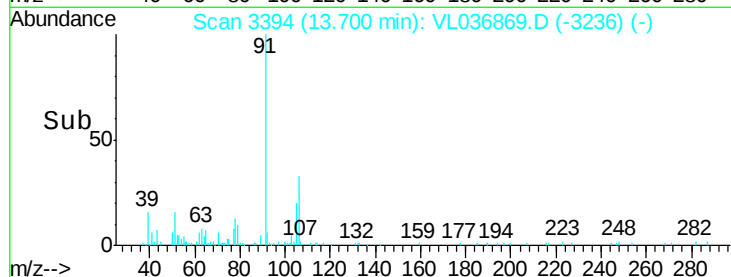
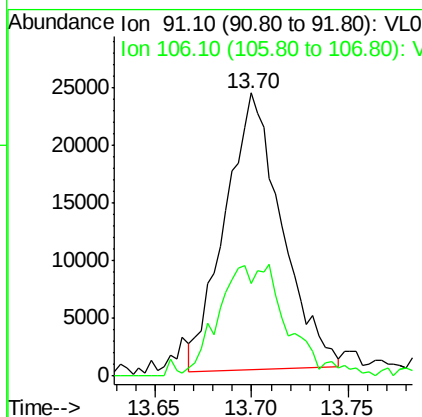
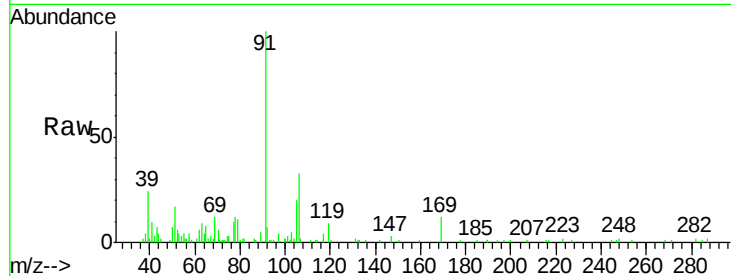


#60
o-Xylene
Concen: 0.134 ppbv
RT: 13.70
Delta R.T. MSVOA_L
Lab File: ClientSampled :
Acq: 27 Apr 2021 22:30

Tot Ion:
Ion Ratio
91 100
106 49.

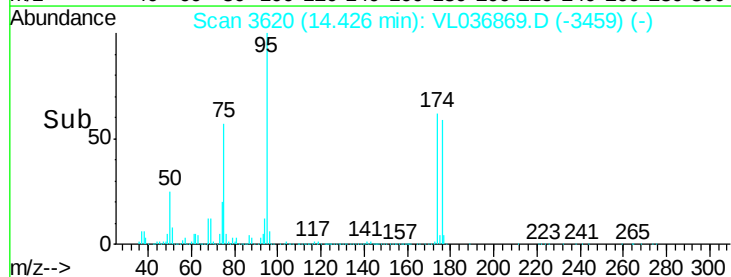
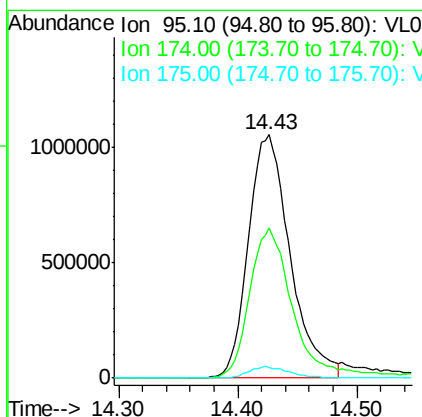
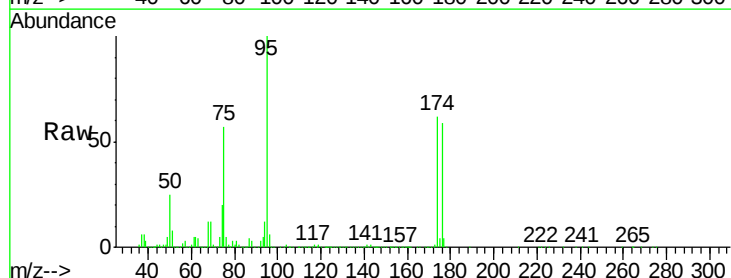
Manual Integrations
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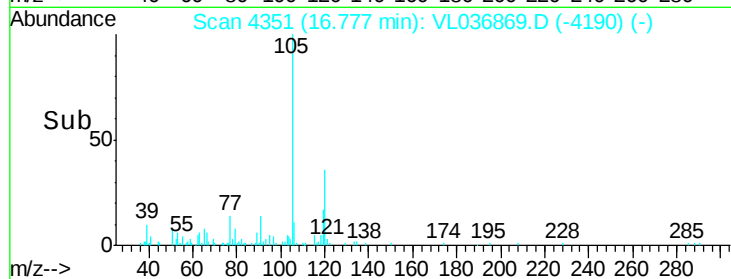
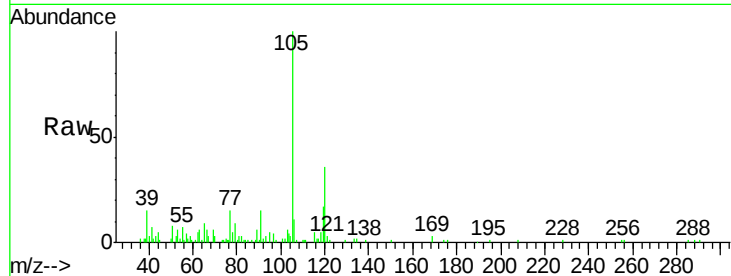
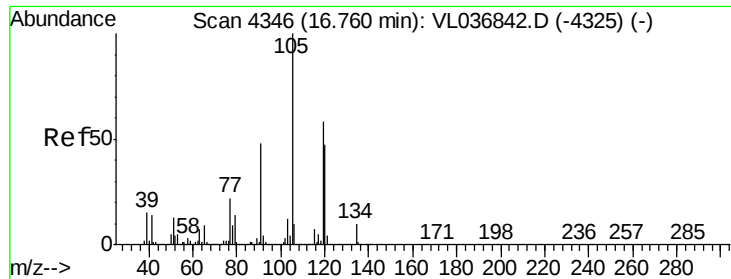
Reviewed By :Semsettin Yesilyurt 04/28/2021
Supervised By :Mahesh Dadoda 04/29/2021



#68
1-Bromo-4-Fluorobenzene
Concen: 9.648 ppbv
RT: 14.43 min Scan# 3620
Delta R.T. 0.02 min
Lab File: VL036869.D
Acq: 27 Apr 2021 22:30

Tgt Ion: 95 Resp: 2568315
Ion Ratio Lower Upper
95 100
174 66.2 52.2 78.2
175 4.9 4.0 6.0





#74
 1,2,4-Trimethylbenzene
 Concen: 0.155 ppbv
 RT: 16.78
 Delta R.T.
 Lab File:
 Acq: 27 Apr 2021 22:30

Instrument : MSVOA_L
 ClientSampleId : DDC-2-EFFLUENT

Tot Ion:1
 Ion Rati
 105 100
 120 31.
 91 13.
 77 11.6 17.4 26.0#

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/28/2021
 Supervised By :Mahesh Dadoda 04/29/2021

