

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012422\
 Data File : VL038265.D
 Acq On : 24 Jan 2022 18:30
 Operator : SY/AP
 Sample : N1211-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 SVE-EFFLUENT

Manual Integrations
 APPROVED

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

Quant Time: Jan 25 14:30:21 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	5.67	49	750555	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1966752	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	1596869	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1220342	10.07	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.70%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.06	85	36359	0.228 ppbv	99
4) Chloromethane	3.15	50	25373m	0.494 ppbv	
10) Heptane	8.13	43	51551	0.412 ppbv	92
11) Trichlorofluoromethane	3.96	101	25212	0.203 ppbv	97
13) Ethanol	3.61	45	1426329	273.161 ppbv	100
15) Acetone	3.86	43	2402334m	36.309 ppbv	
19) Isopropyl Alcohol	3.98	45	259867m	6.278 ppbv	
20) Methylene Chloride	4.36	84	141112	3.667 ppbv	96
25) Ethyl Acetate	5.69	43	219989	1.188 ppbv	98
26) Hexane	5.70	57	101859	1.182 ppbv	95
30) Cyclohexane	7.14	84	71850	0.958 ppbv	93
34) 2-Butanone	5.25	43	132378m	2.058 ppbv	
35) Carbon Tetrachloride	7.03	117	10234m	0.074 ppbv	
36) Benzene	6.90	78	67128	0.386 ppbv	99
39) 1,2-Dichloropropane	7.62	63	27544m	0.391 ppbv	
41) Tetrahydrofuran	6.06	42	68975	1.595 ppbv	99
44) 2,2,4-Trimethylpentane	7.87	57	67550	0.220 ppbv #	70
52) Tetrachloroethene	11.22	164	6435m	0.107 ppbv	
53) Toluene	9.81	91	1733011	9.000 ppbv	97
58) Ethyl Benzene	12.72	91	94950m	0.405 ppbv	
59) m/p-Xylene	12.97	91	340499	1.701 ppbv	94
60) o-Xylene	13.69	91	141131	0.758 ppbv	99
61) Styrene	13.53	104	14465m	0.166 ppbv	
72) 4-Ethyltoluene	15.84	105	25254m	0.130 ppbv	
73) 1,3,5-Trimethylbenzene	16.00	105	21748m	0.124 ppbv	
74) 1,2,4-Trimethylbenzene	16.77	105	65198	0.353 ppbv #	73

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

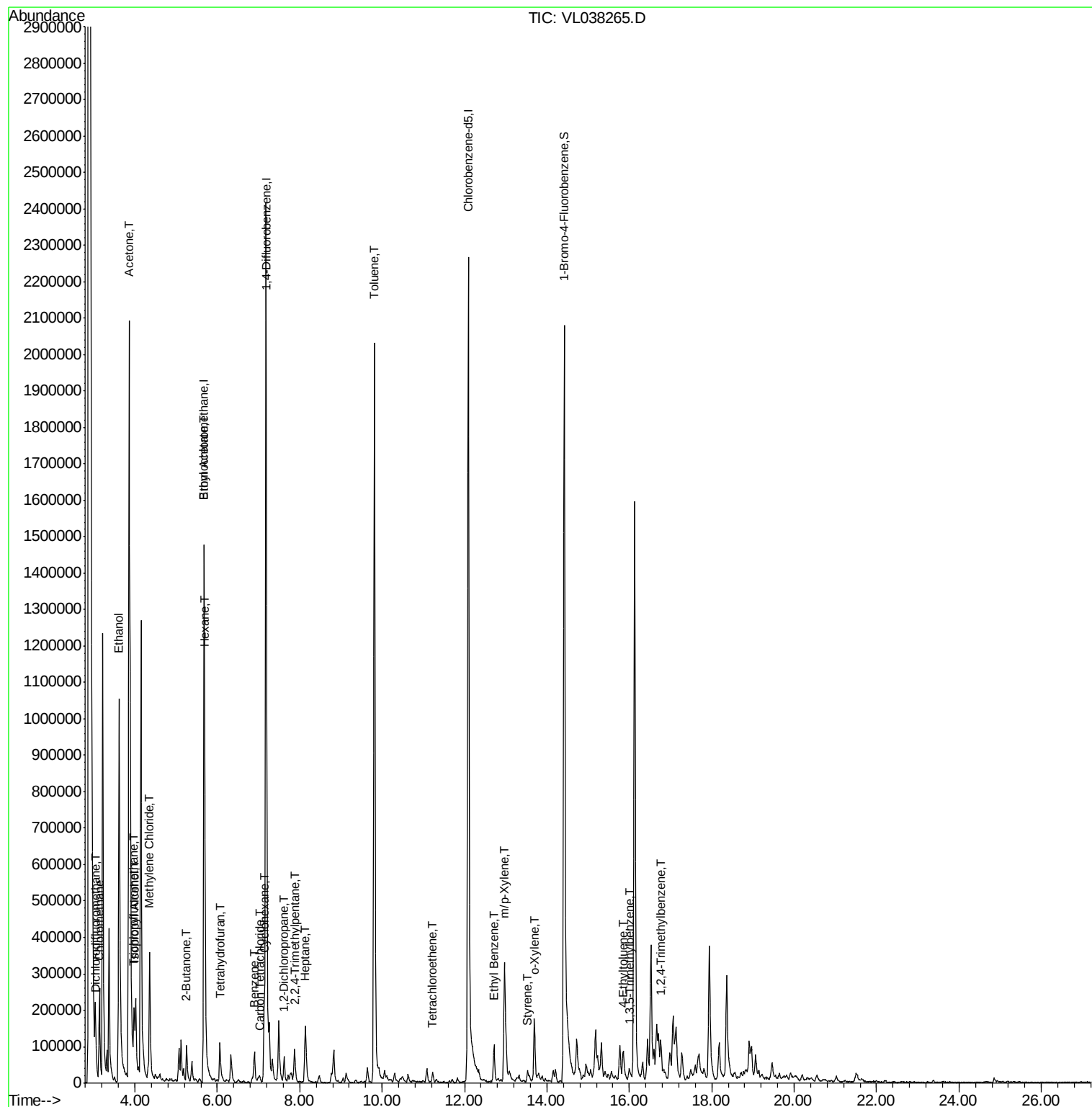
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL012422\
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 24 Jan 2022 18:30

Tot Ion:

Ion Ratio

49 100

128 46.

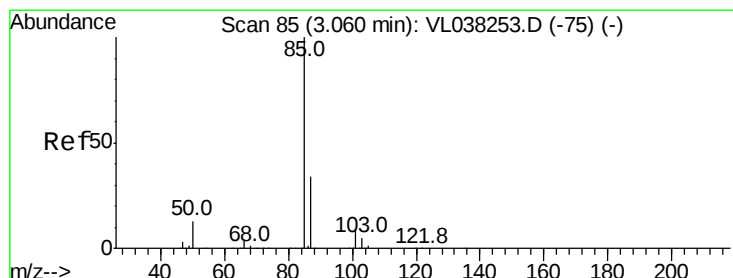
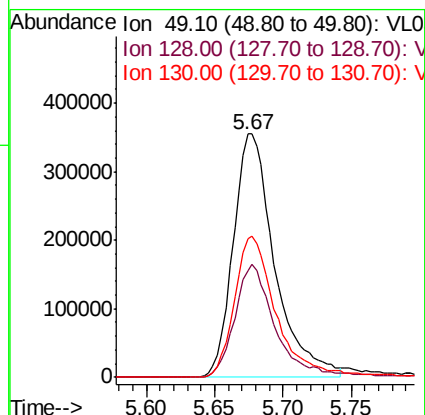
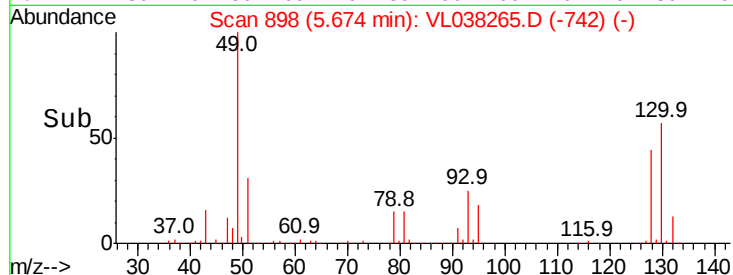
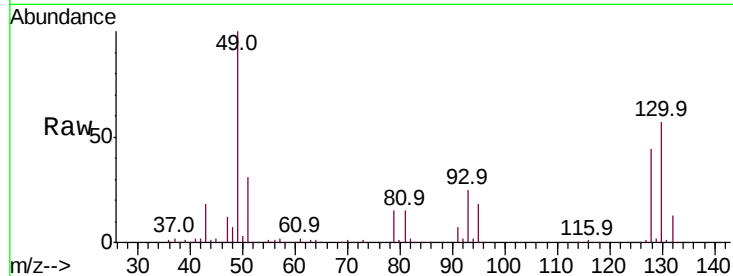
130 59.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/26/2022

Supervised By :Mahesh Dadoda 01/26/2022



#2

Dichlorodifluoromethane

Concen: 0.228 ppbv

RT: 3.06 min Scan# 85

Delta R.T. 0.00 min

Lab File: VL038265.D

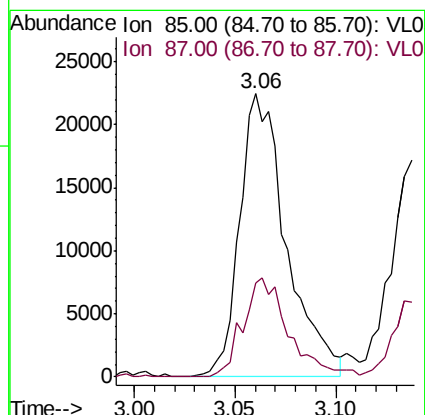
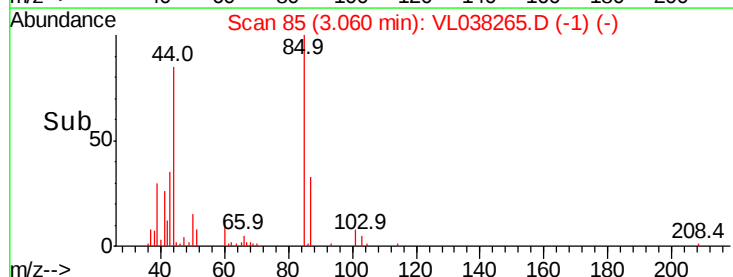
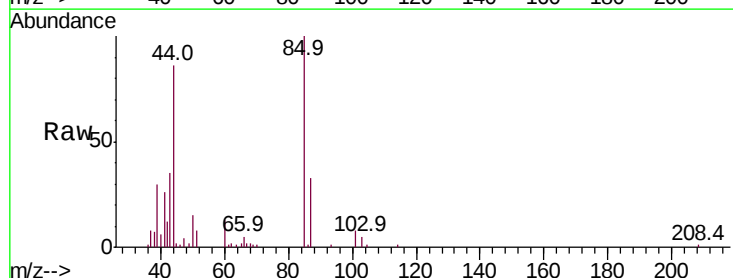
Acq: 24 Jan 2022 18:30

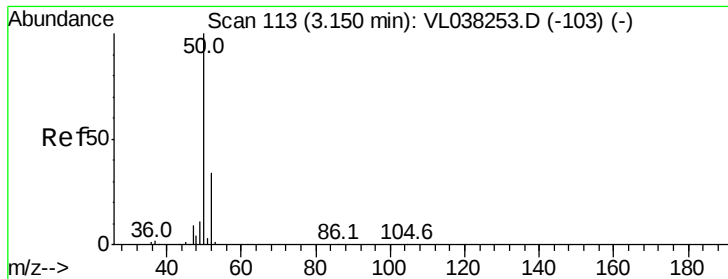
Tgt Ion: 85 Resp: 36359

Ion Ratio Lower Upper

85 100

87 33.2 27.0 40.6





#4

Chloromethane

Concen: 0.494 ppbv m

RT: 3.15 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Jan 2022 18:30 SVE-EFFLUENT

Tot Ion:

Ion Ratio

50 100

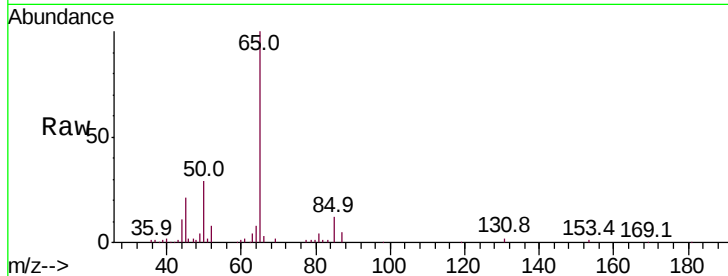
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Manual Integrations

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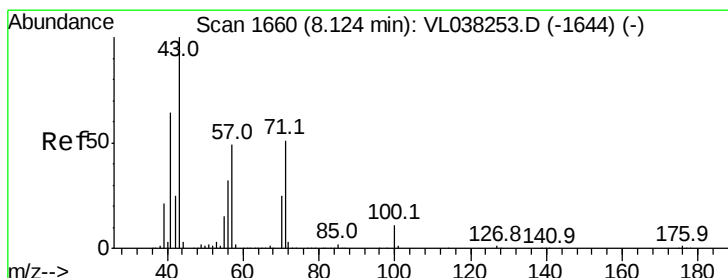
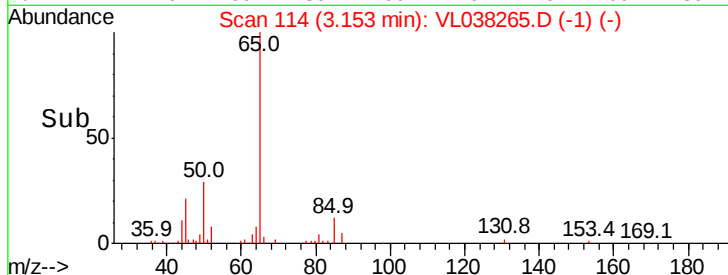
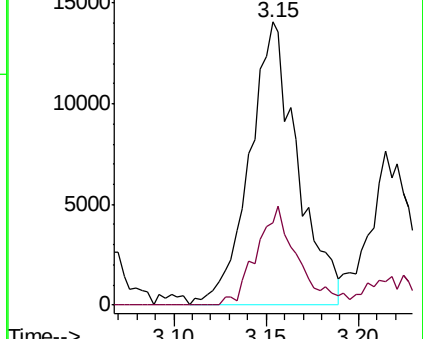
Reviewed By :Semsettin Yesilyurt 01/26/2022

Supervised By :Mahesh Dadoda 01/26/2022



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#10

Heptane

Concen: 0.412 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VL038265.D

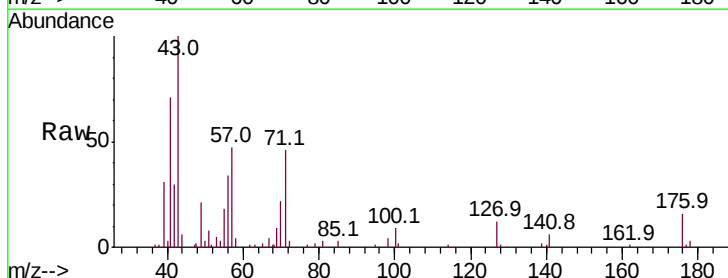
Acq: 24 Jan 2022 18:30

Tgt Ion: 43 Resp: 51551

Ion Ratio Lower Upper

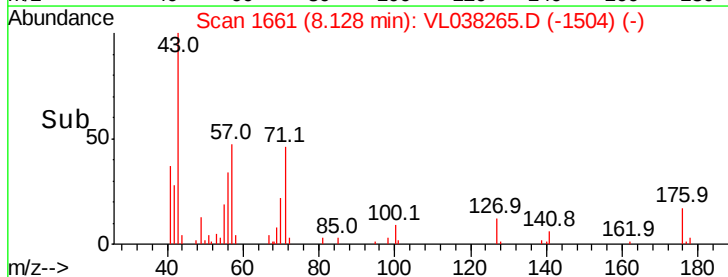
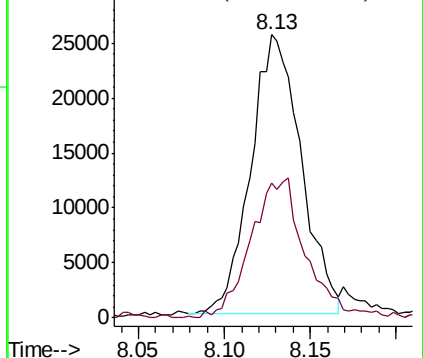
43 100

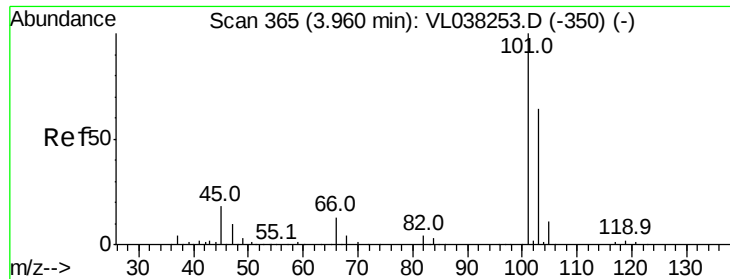
57 55.0 39.5 59.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



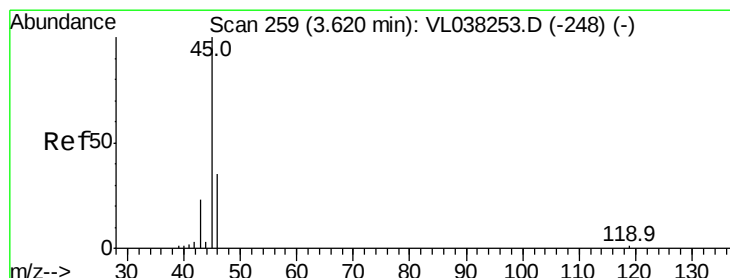
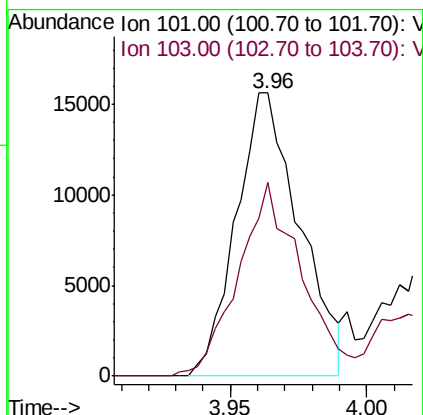
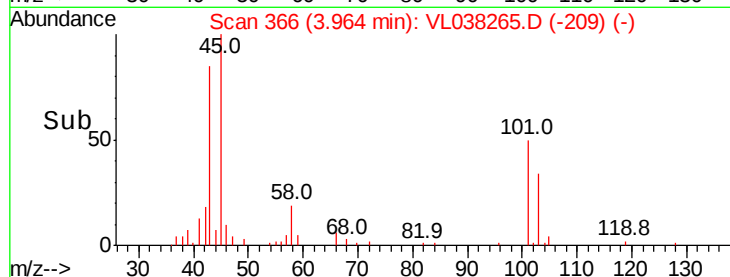
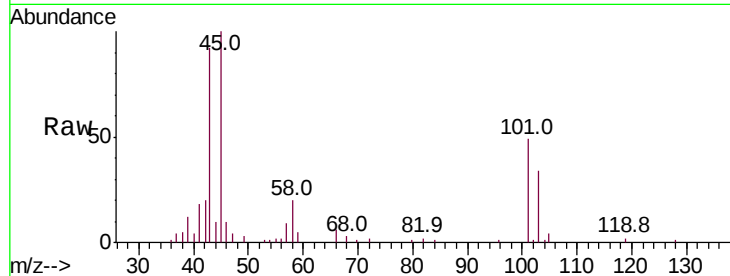


#11
Trichlorofluoromethane
Concen: 0.203 ppbv
RT: 3.96
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
SVE-EFFLUENT
Acq: 24 Jan 2022 18:30

Tot Ion:1
Ion Rati
101 100
103 66.

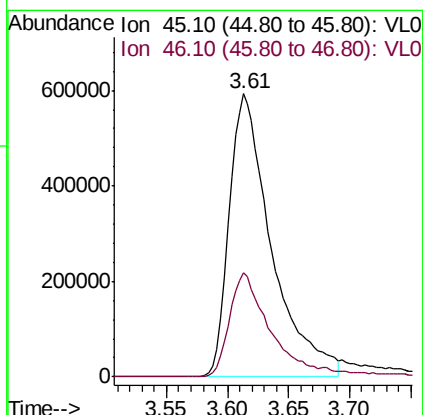
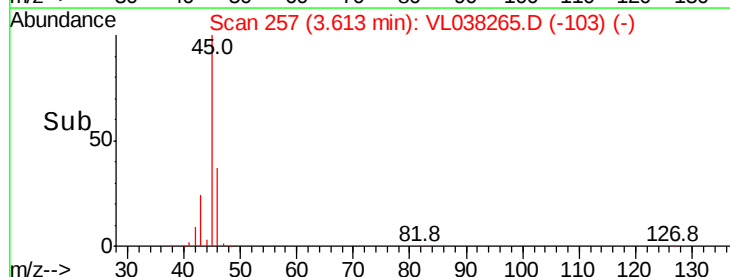
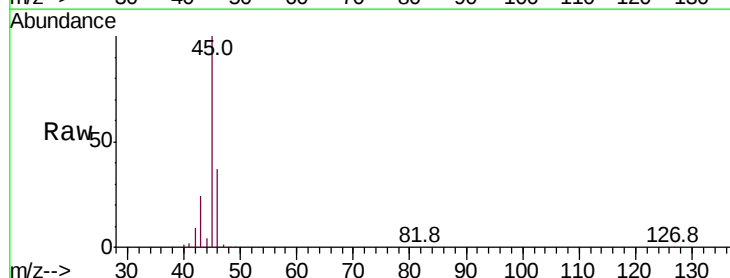
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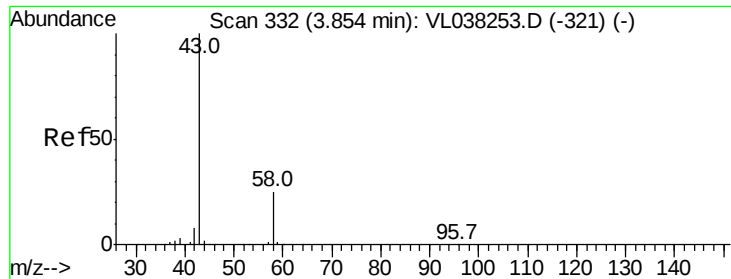
Reviewed By :Semsettin Yesilyurt 01/26/2022
Supervised By :Mahesh Dadoda 01/26/2022



#13
Ethanol
Concen: 273.161 ppbv
RT: 3.61 min Scan# 257
Delta R.T. -0.01 min
Lab File: VL038265.D
Acq: 24 Jan 2022 18:30

Tgt Ion: 45 Resp: 1426329
Ion Ratio Lower Upper
45 100
46 38.8 15.4 61.6





#15

Acetone

Concen: 36.309 ppbv m

RT: 3.86

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 24 Jan 2022 18:30

Tot Ion:

Ion Ratio

43 100

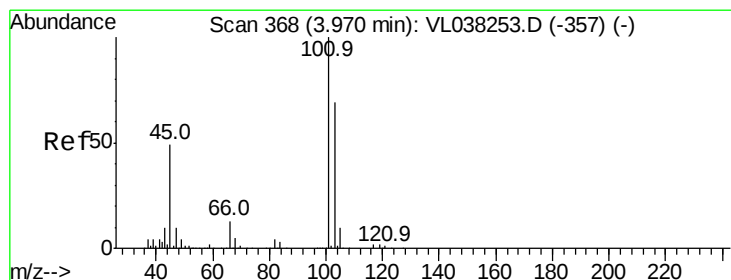
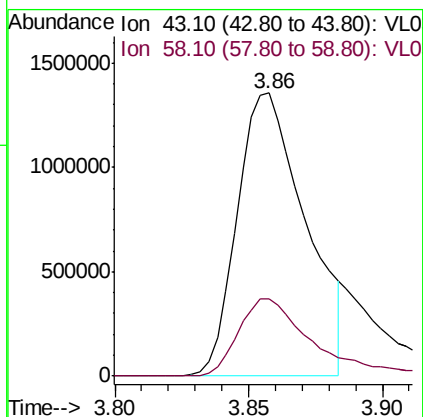
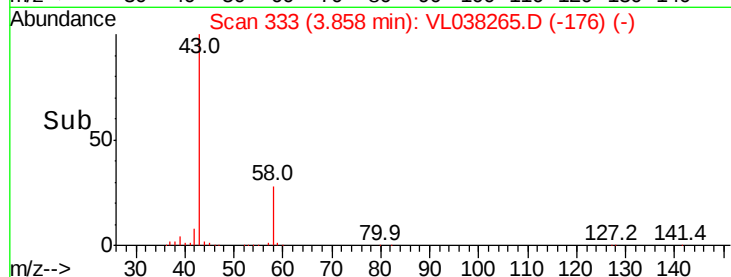
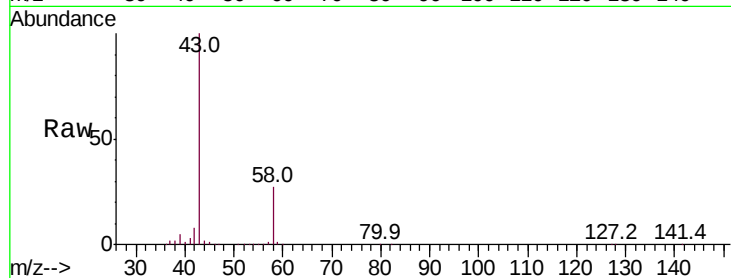
58 32.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/26/2022

Supervised By :Mahesh Dadoda 01/26/2022



#19

Isopropyl Alcohol

Concen: 6.278 ppbv m

RT: 3.98 min Scan# 371

Delta R.T. 0.01 min

Lab File: VL038265.D

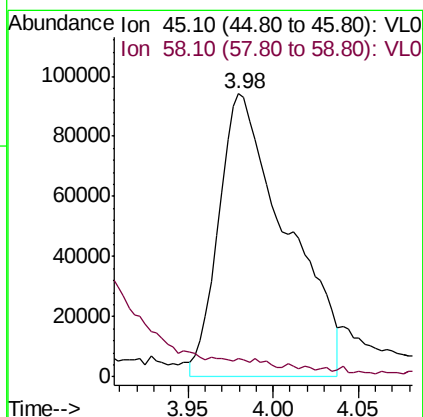
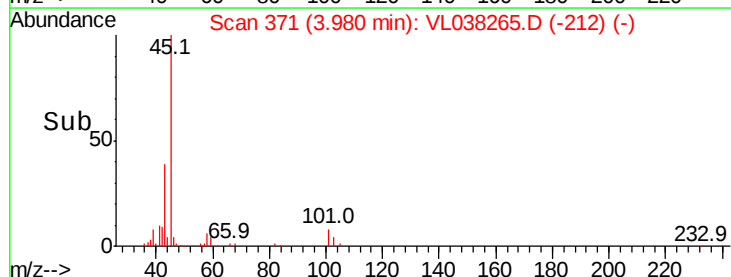
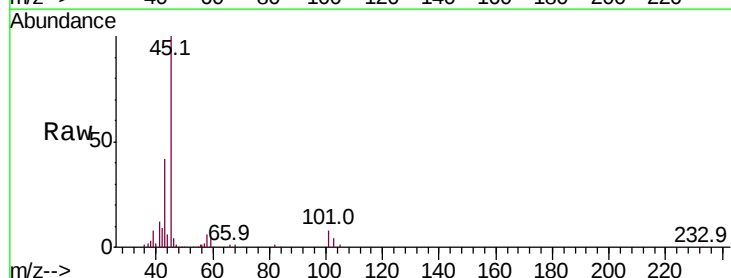
Acq: 24 Jan 2022 18:30

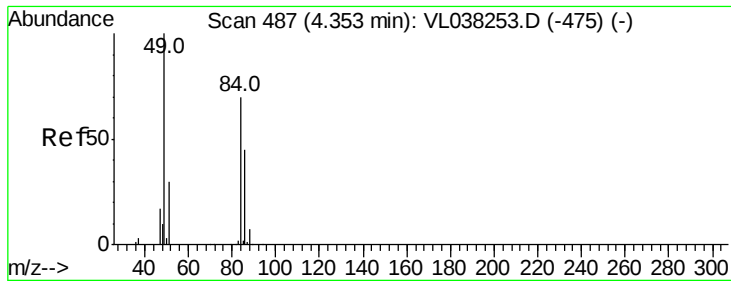
Tgt Ion: 45 Resp: 259867

Ion Ratio Lower Upper

45 100

58 0.0 2.3 3.5#



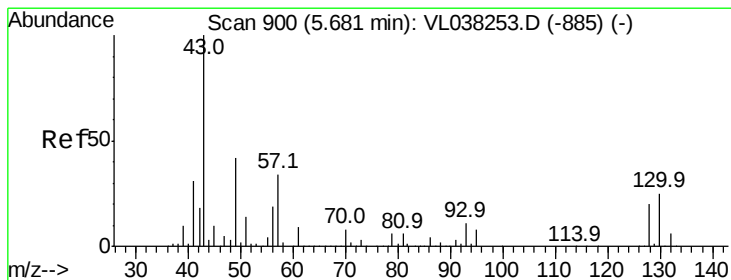
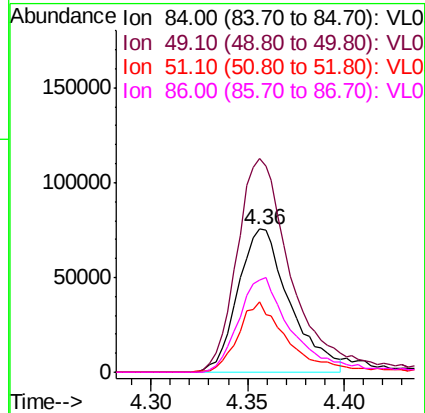
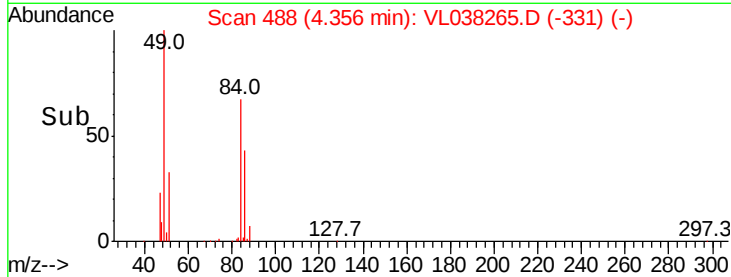
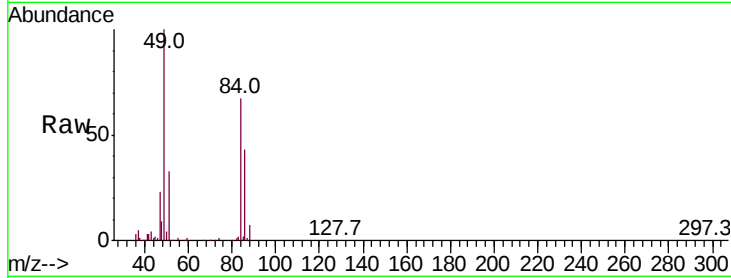


#20
Methvlene Chloride
Concen: 3.667 ppbv
RT: 4.36
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 24 Jan 2022 18:30
SVE-EFFLUENT

Tot Ion:
Ion Ratio
84 100
49 148.
51 49.
86 64.8 51.4 77.0

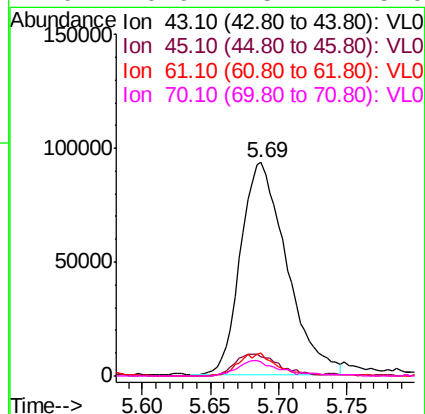
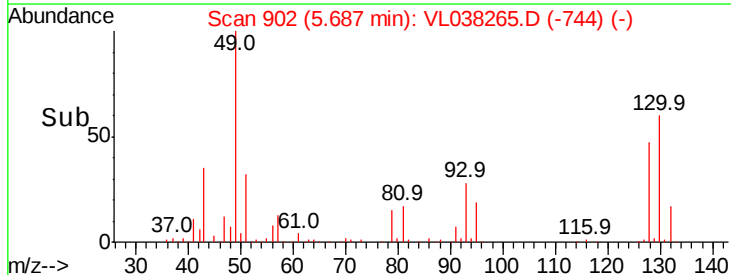
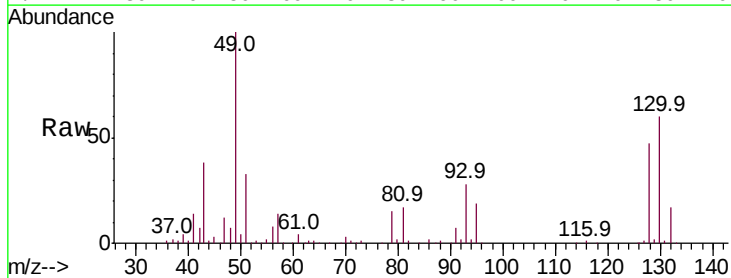
Manual Integrations
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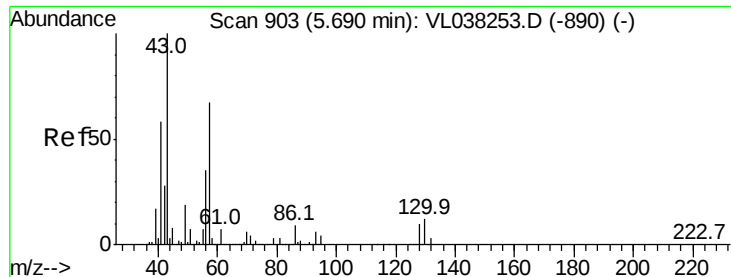
Reviewed By :Semsettin Yesilyurt 01/26/2022
Supervised By :Mahesh Dadoda 01/26/2022



#25
Ethyl Acetate
Concen: 1.188 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.01 min
Lab File: VL038265.D
Acq: 24 Jan 2022 18:30

Tgt Ion: 43 Resp: 219989
Ion Ratio Lower Upper
43 100
45 11.0 7.9 11.9
61 9.4 7.8 11.8
70 6.9 5.4 8.0



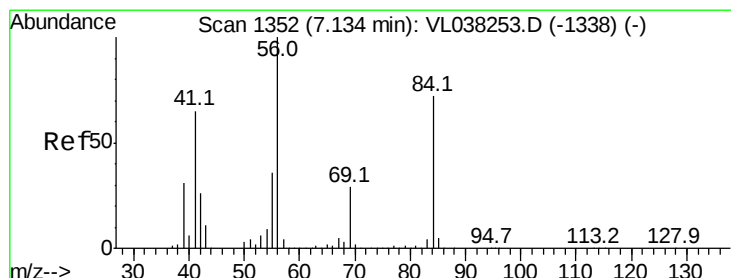
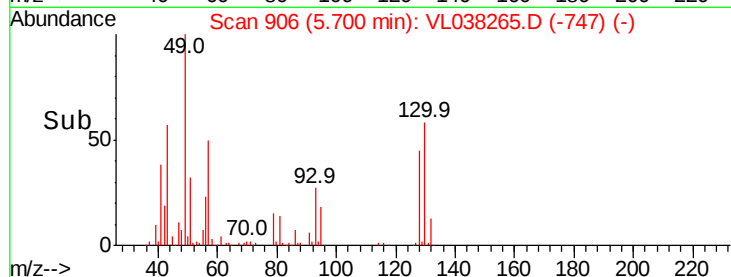
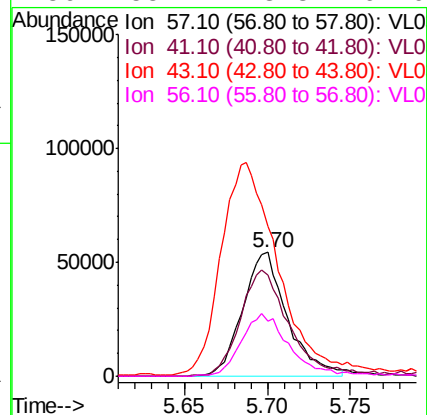
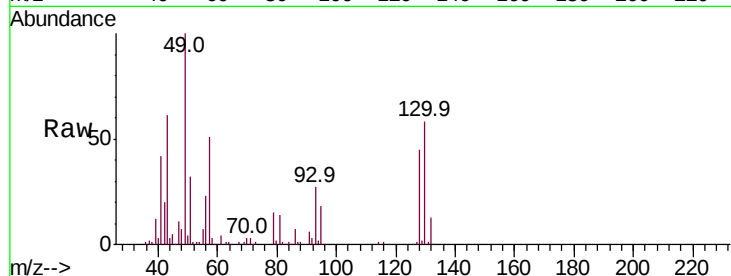


#26
Hexane
Concen: 1.182 ppbv
RT: 5.70
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 24 Jan 2022 18:30
SVE-EFFLUENT

Tot Ion:
Ion Ratio
57 100
41 97.
43 229.
56 55.7 43.3 64.9

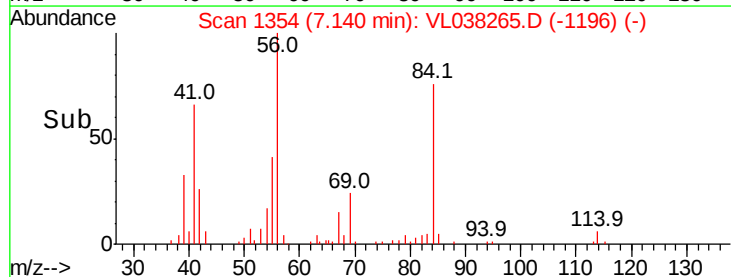
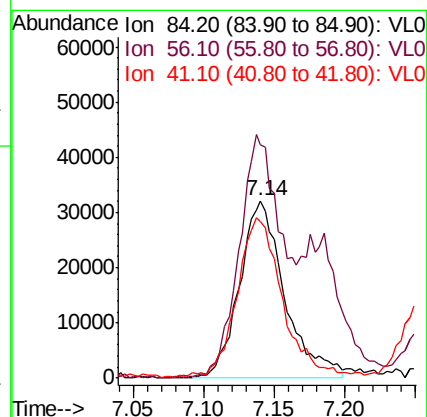
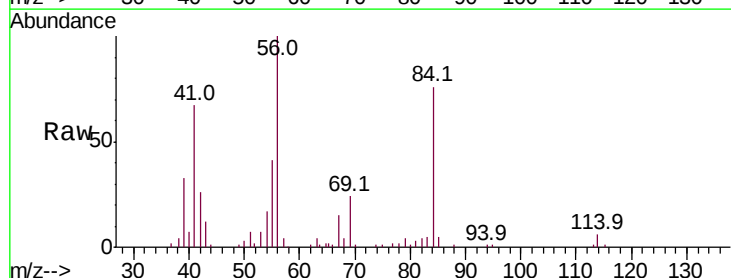
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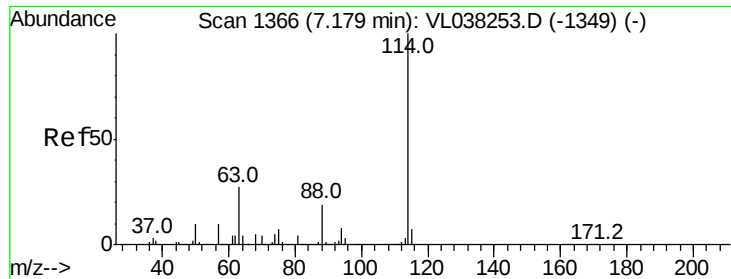
Reviewed By :Semsettin Yesilyurt 01/26/2022
Supervised By :Mahesh Dadoda 01/26/2022



#30
Cyclohexane
Concen: 0.958 ppbv
RT: 7.14 min Scan# 1354
Delta R.T.: 0.01 min
Lab File: VL038265.D
Acq: 24 Jan 2022 18:30

Tgt Ion: 84 Resp: 71850
Ion Ratio Lower Upper
84 100
56 130.6 112.7 169.1
41 92.6 71.1 106.7



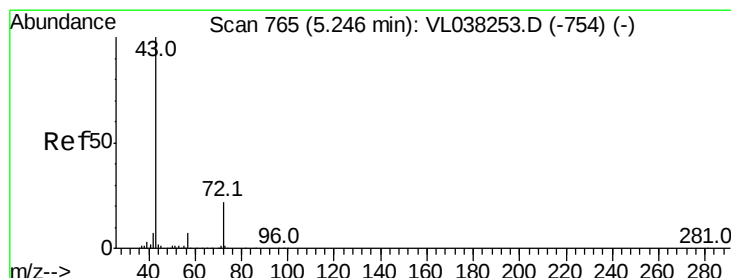
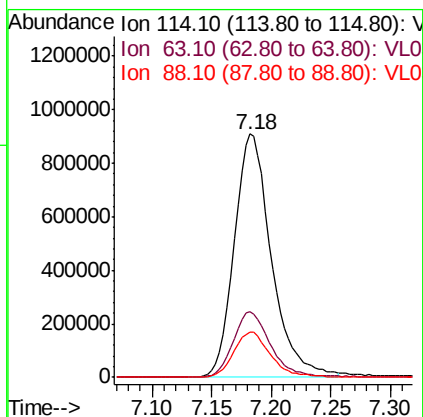
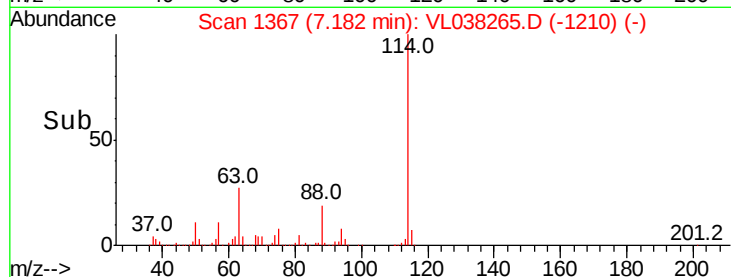
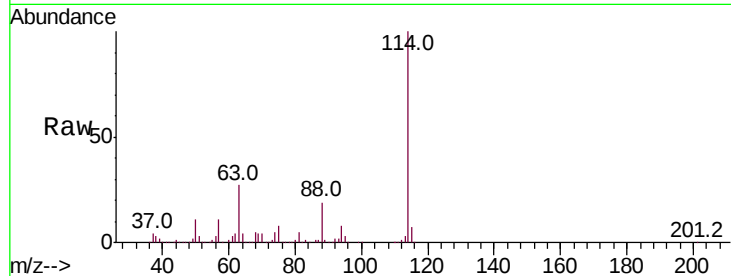


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 SVE-EFFLUENT
 Acq: 24 Jan 2022 18:30

Tot Ion: 1
 Ion Ratio
 114 100
 63 27.
 88 19.

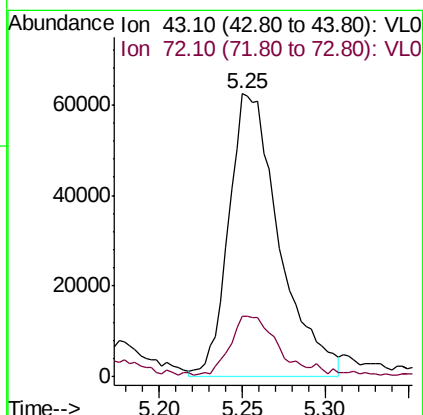
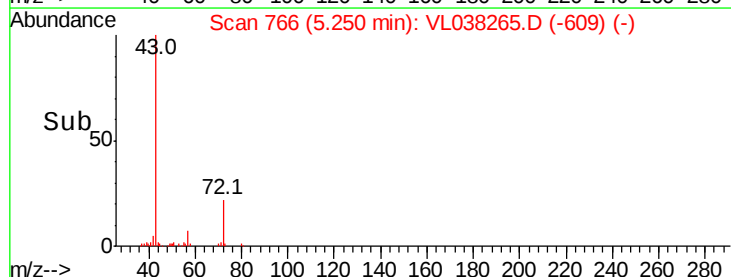
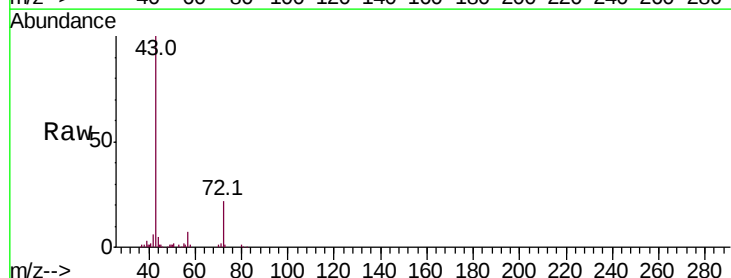
Manual Integrations
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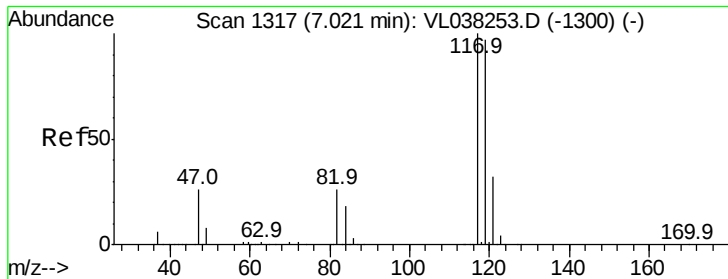
Reviewed By : Semsettin Yesilyurt 01/26/2022
 Supervised By : Mahesh Dadoda 01/26/2022



#34
 2-Butanone
 Concen: 2.058 ppbv m
 RT: 5.25 min Scan# 766
 Delta R.T.: 0.00 min
 Lab File: VL038265.D
 Acq: 24 Jan 2022 18:30

Tgt Ion: 43 Resp: 132378
 Ion Ratio Lower Upper
 43 100
 72 23.2 18.1 27.1





#35

Carbon Tetrachloride

Concen: 0.074 ppbv m

RT: 7.03 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Jan 2022 18:30 SVE-EFFLUENT

Tot Ion:1

Ion Ratio

117 100

119 85.

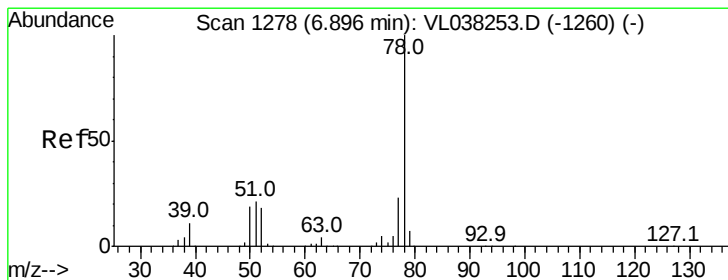
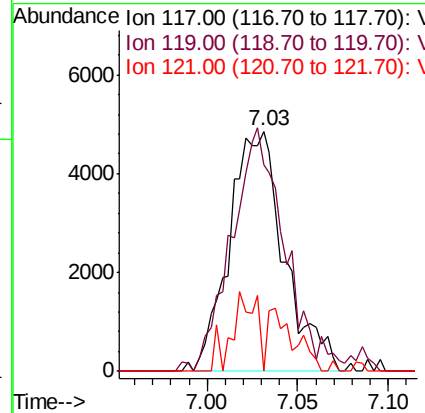
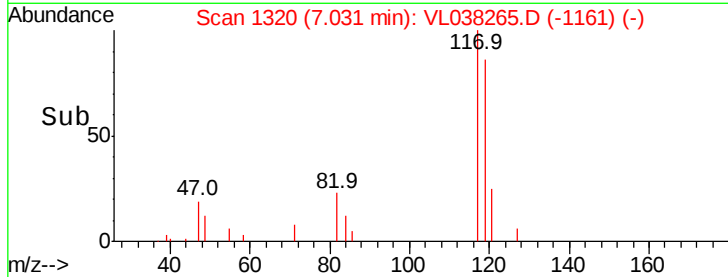
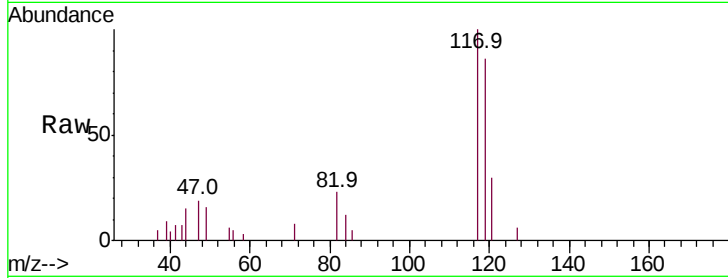
121 0.

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Reviewed By :Semsettin Yesilyurt 01/26/2022

Supervised By :Mahesh Dadoda 01/26/2022



#36

Benzene

Concen: 0.386 ppbv

RT: 6.90 min Scan# 1279

Delta R.T. 0.00 min

Lab File: VL038265.D

Acq: 24 Jan 2022 18:30

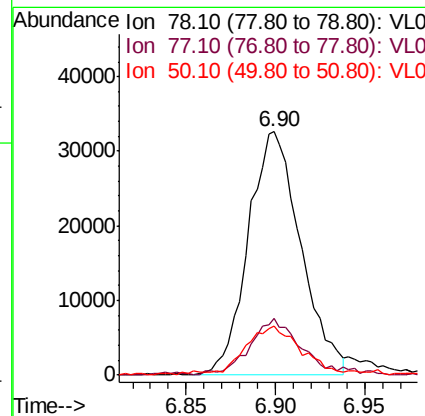
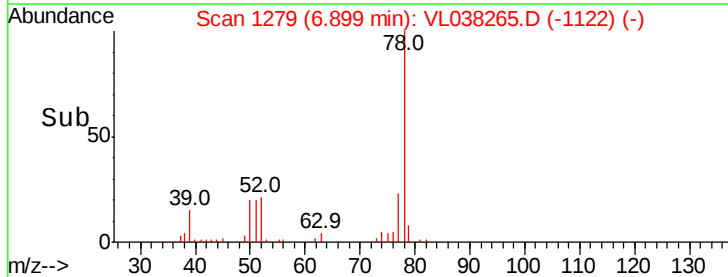
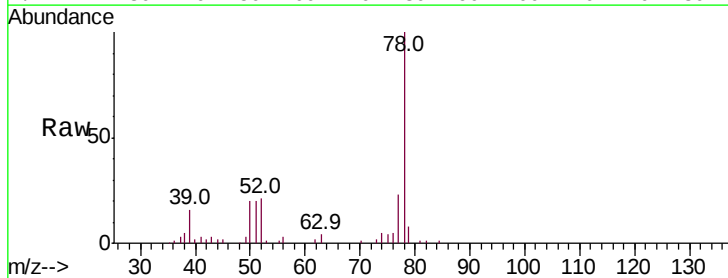
Tgt Ion: 78 Resp: 67128

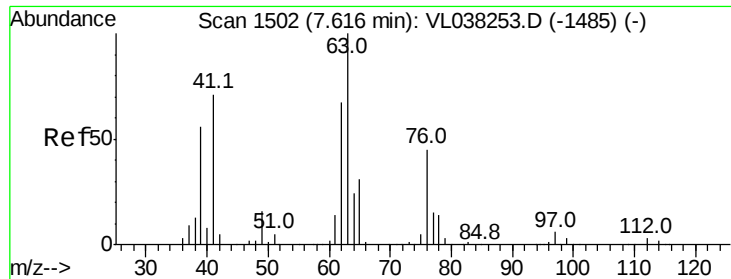
Ion Ratio Lower Upper

78 100

77 23.3 18.2 27.2

50 19.1 15.1 22.7



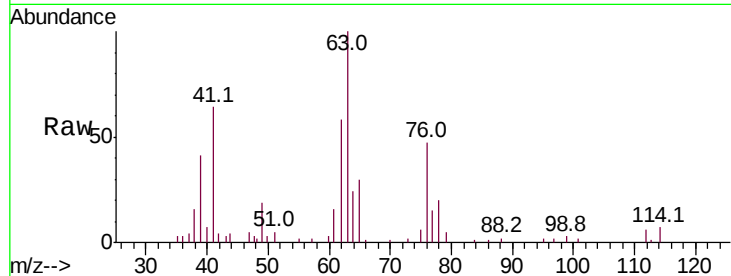


#39
 1,2-Dichloropropane
 Concen: 0.391 ppbv m
 RT: 7.62
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId :
 SVE-EFFLUENT
 Acq: 24 Jan 2022 18:30

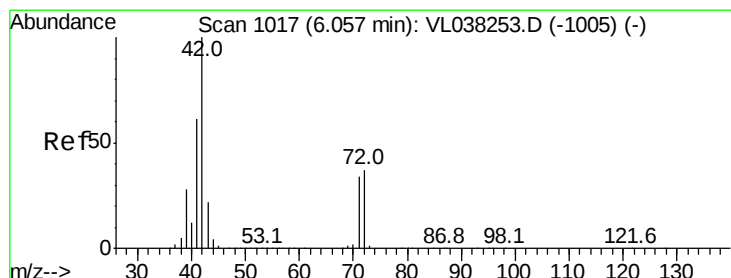
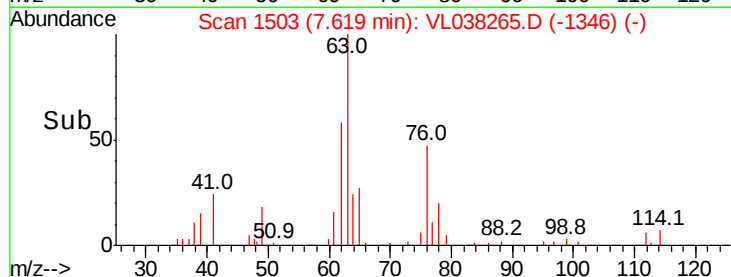
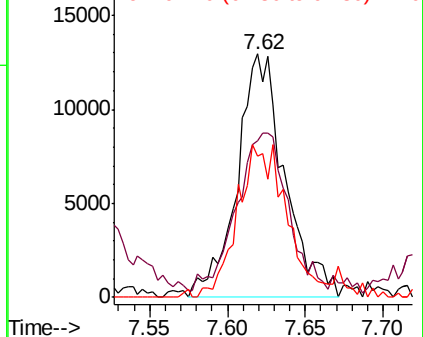
Tot Ion:
 Ion Ratio
 63 100
 41 64.
 62 58.

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

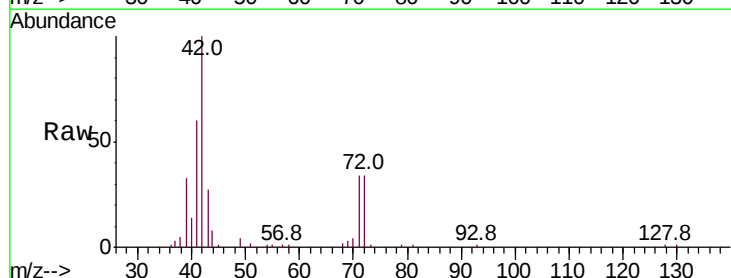


Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

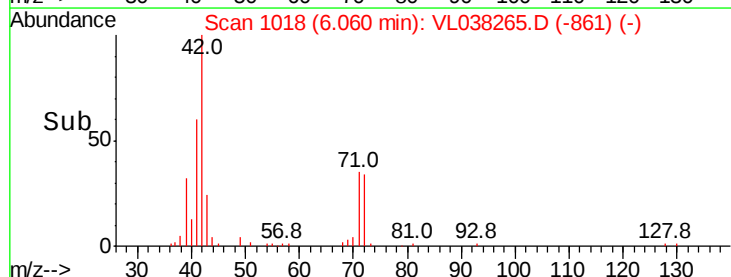
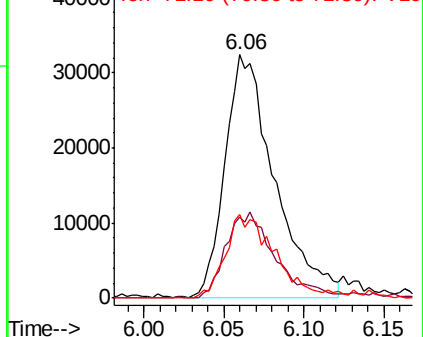


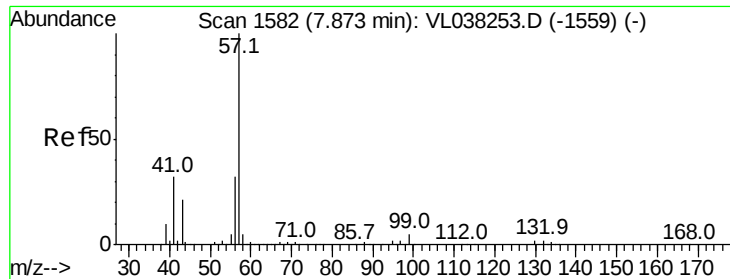
#41
 Tetrahydrofuran
 Concen: 1.595 ppbv
 RT: 6.06 min Scan# 1018
 Delta R.T. 0.00 min
 Lab File: VL038265.D
 Acq: 24 Jan 2022 18:30

Tgt Ion: 42 Resp: 68975
 Ion Ratio Lower Upper
 42 100
 72 36.7 29.7 44.5
 71 35.8 29.4 44.2



Abundance Ion 42.10 (41.80 to 42.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0
 Ion 71.10 (70.80 to 71.80): VL0



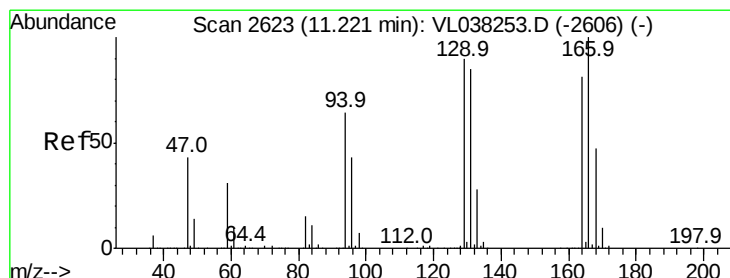
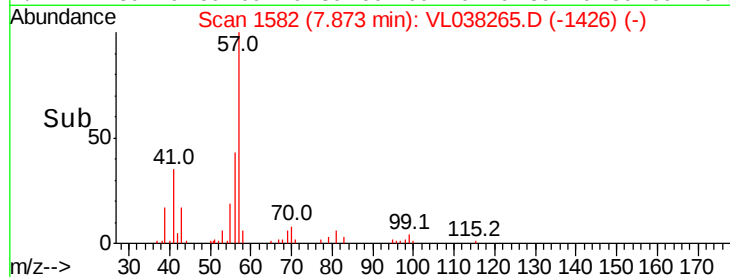
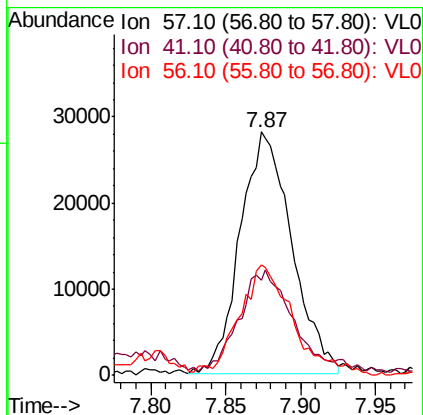
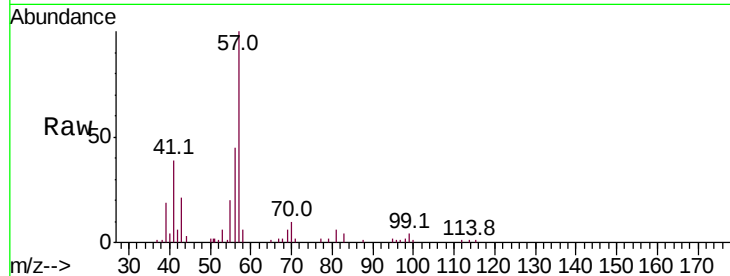


#44
2,2,4-Trimethylpentane
Concen: 0.220 ppbv
RT: 7.87
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 Jan 2022 18:30 SVE-EFFLUENT

Tot Ion:
Ion Rati
57 100
41 50.
56 47.

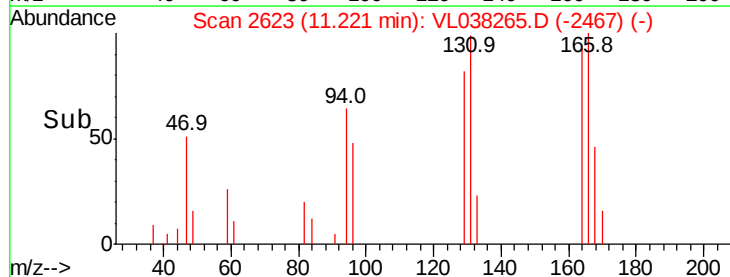
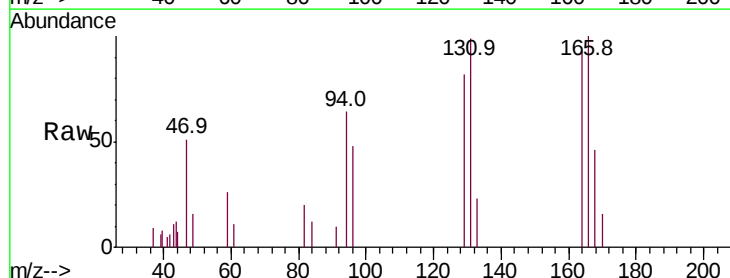
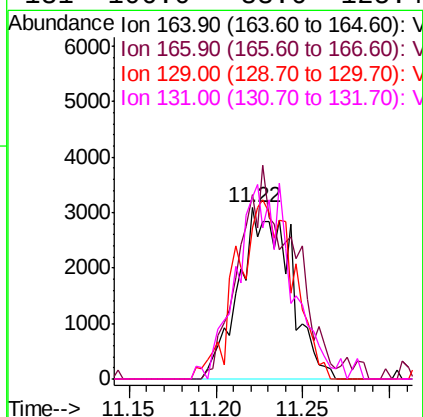
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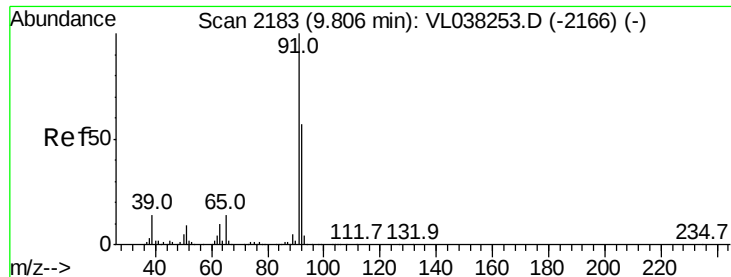
Reviewed By :Semsettin Yesilyurt 01/26/2022
Supervised By :Mahesh Dadoda 01/26/2022



#52
Tetrachloroethene
Concen: 0.107 ppbv m
RT: 11.22 min Scan# 2623
Delta R.T. 0.00 min
Lab File: VL038265.D
Acq: 24 Jan 2022 18:30

Tgt Ion:164 Resp: 6435
Ion Ratio Lower Upper
164 100
166 107.3 98.8 148.2
129 88.1 89.2 133.8#
131 106.0 83.6 125.4





#53

Toluene

Concen: 9.000 ppbv

RT: 9.81

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Jan 2022 18:30 SVE-EFFLUENT

Tot Ion:

Ion Ratio

91 100

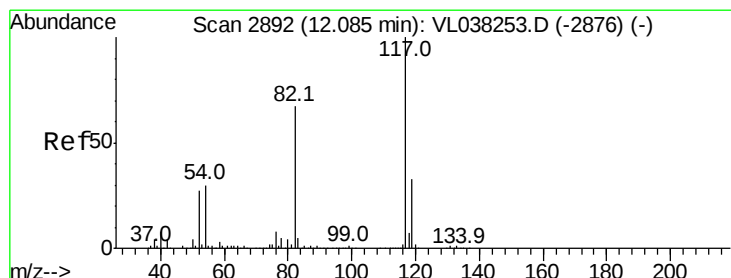
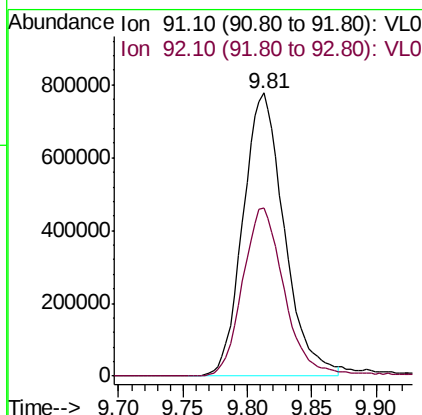
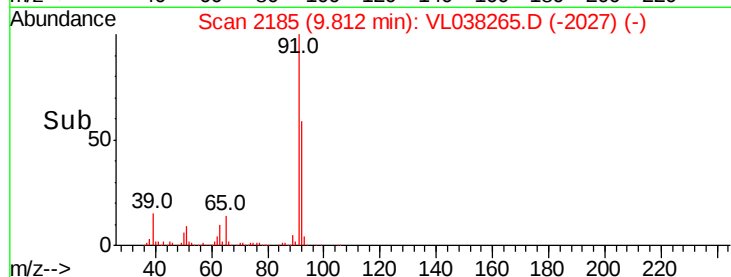
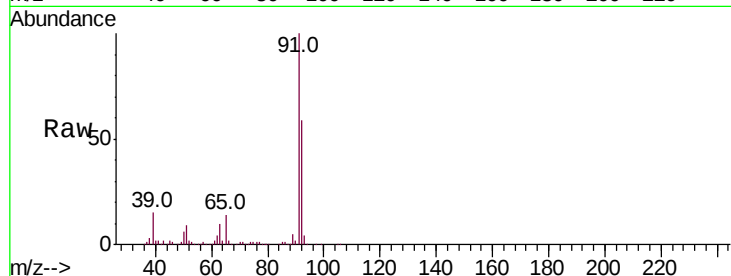
92 61.

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Reviewed By :Semsettin Yesilyurt 01/26/2022

Supervised By :Mahesh Dadoda 01/26/2022



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2893

Delta R.T. 0.00 min

Lab File: VL038265.D

Acq: 24 Jan 2022 18:30

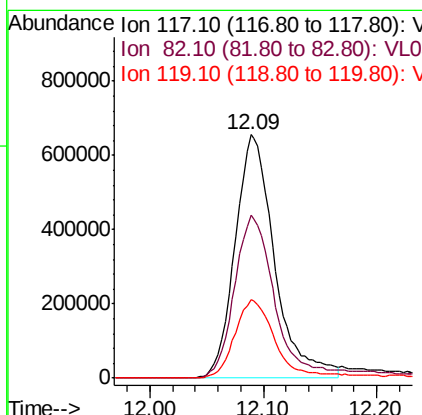
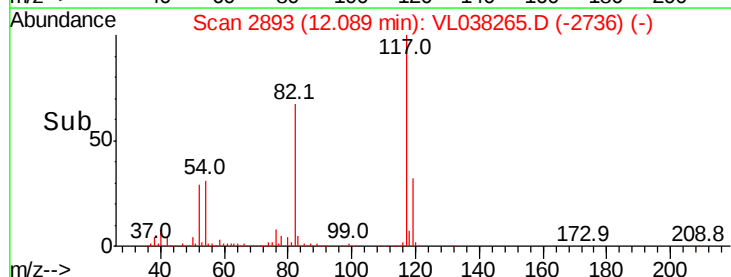
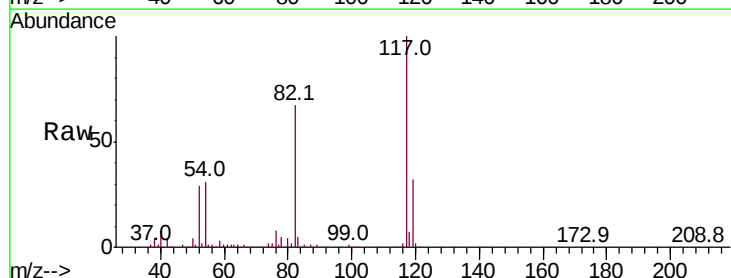
Tgt Ion:117 Resp: 1596869

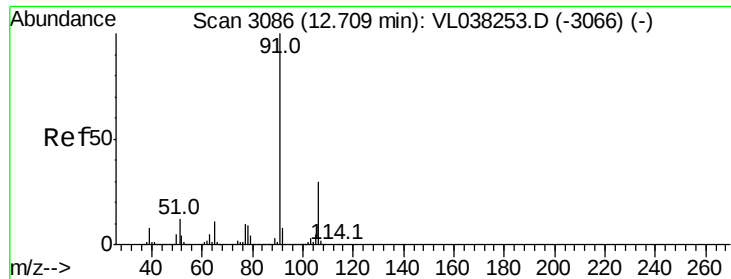
Ion Ratio Lower Upper

117 100

82 74.4 54.4 81.6

119 33.8 45.9 68.9#



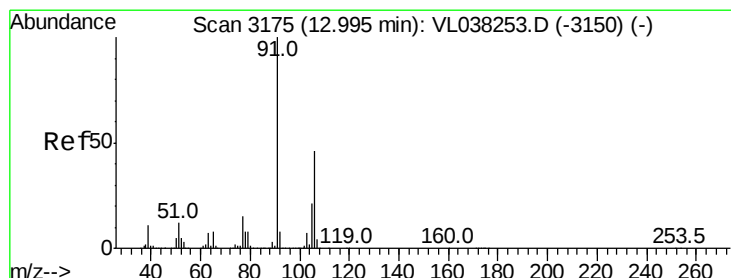
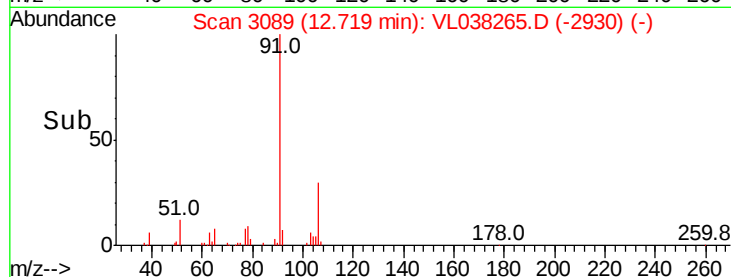
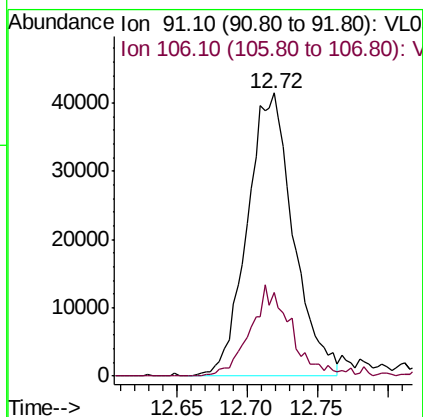
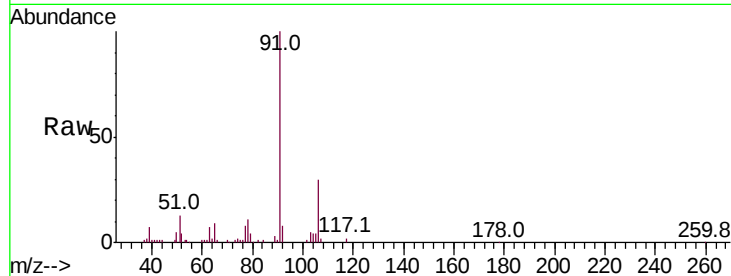


#58
Ethyl Benzene
Concen: 0.405 ppbv m
RT: 12.72
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 24 Jan 2022 18:30

Tot Ion:
Ion Ratio
91 100
106 29.

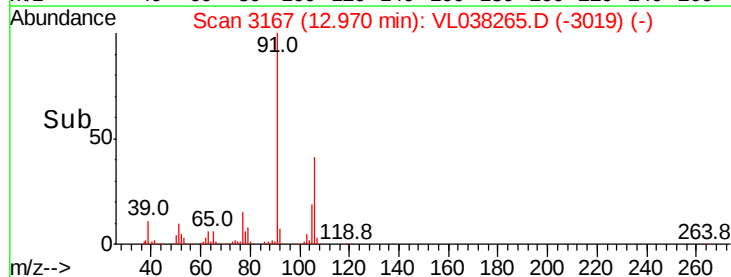
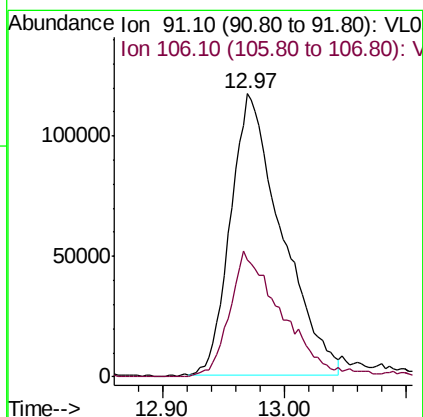
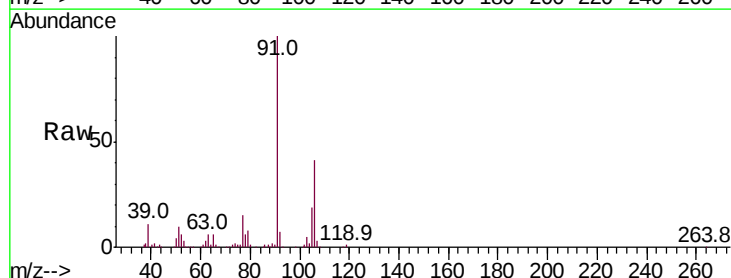
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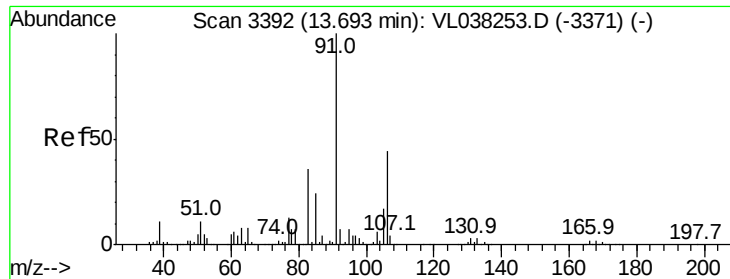
Reviewed By :Semsettin Yesilyurt 01/26/2022
Supervised By :Mahesh Dadoda 01/26/2022



#59
m/p-Xylene
Concen: 1.701 ppbv
RT: 12.97 min Scan# 3167
Delta R.T. -0.03 min
Lab File: VL038265.D
Acq: 24 Jan 2022 18:30

Tgt Ion: 91 Resp: 340499
Ion Ratio Lower Upper
91 100
106 47.0 34.8 52.2



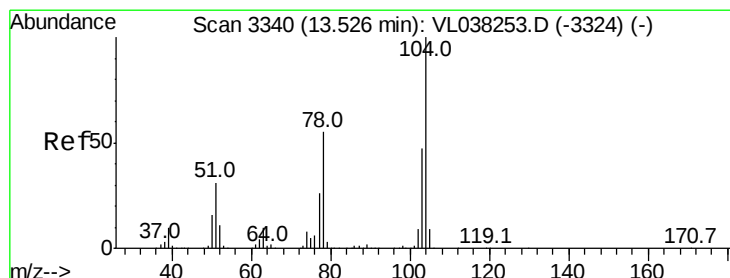
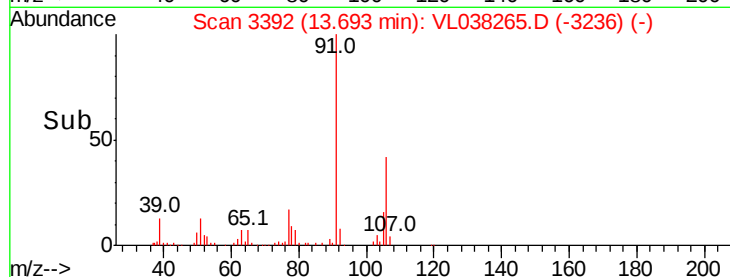
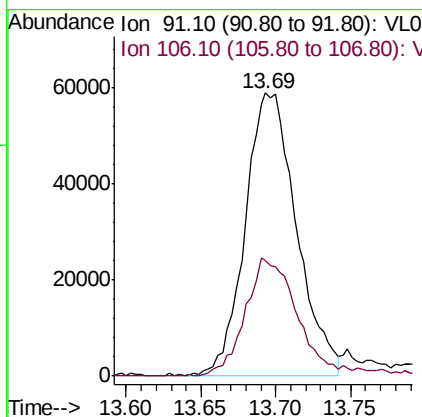
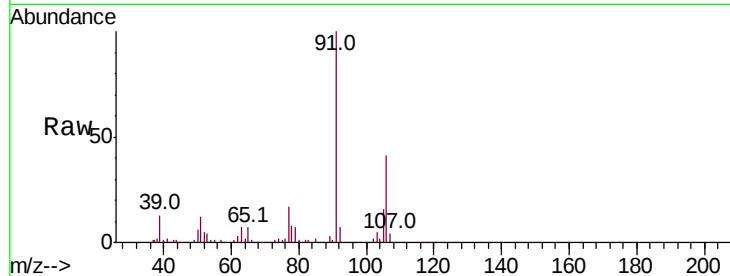


#60
o-Xylene
Concen: 0.758 ppbv
RT: 13.69
Delta R.T. MSVOA_L
Lab File: ClientSampled :
Acq: 24 Jan 2022 18:30 SVE-EFFLUENT

Tot Ion:
Ion Ratio
91 100
106 43.

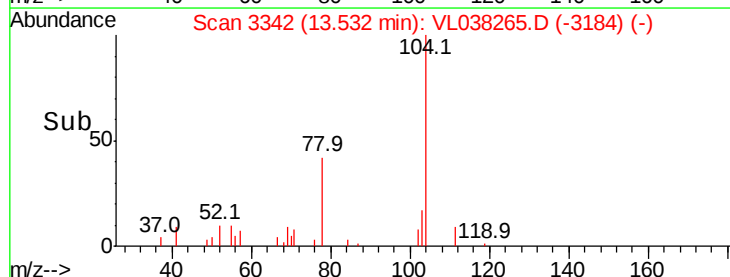
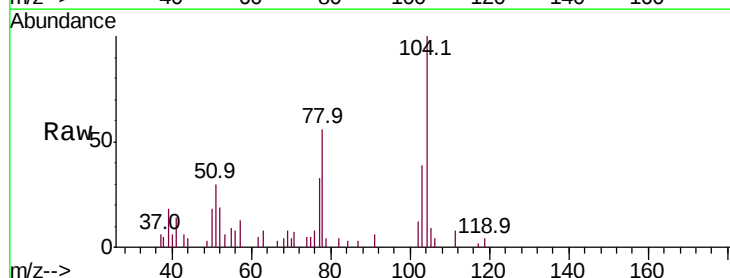
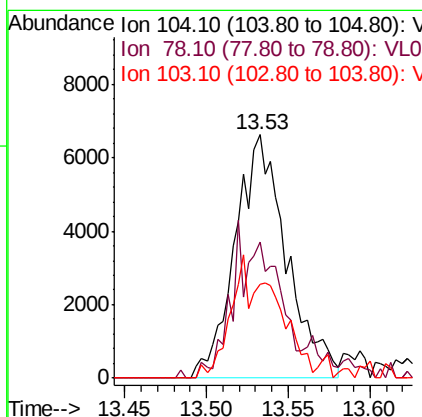
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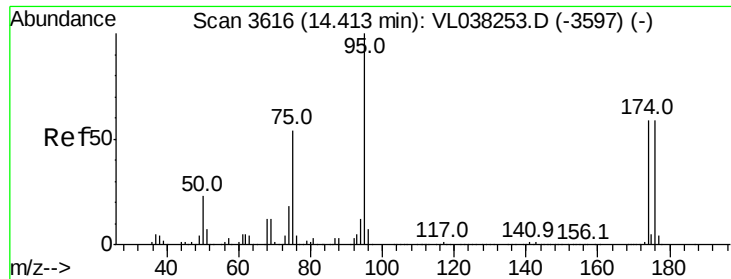
Reviewed By :Semsettin Yesilyurt 01/26/2022
Supervised By :Mahesh Dadoda 01/26/2022



#61
Styrene
Concen: 0.166 ppbv m
RT: 13.53 min Scan# 3342
Delta R.T. 0.01 min
Lab File: VL038265.D
Acq: 24 Jan 2022 18:30

Tgt Ion:104 Resp: 14465
Ion Ratio Lower Upper
104 100
78 0.0 44.2 66.4#
103 0.0 38.2 57.4#



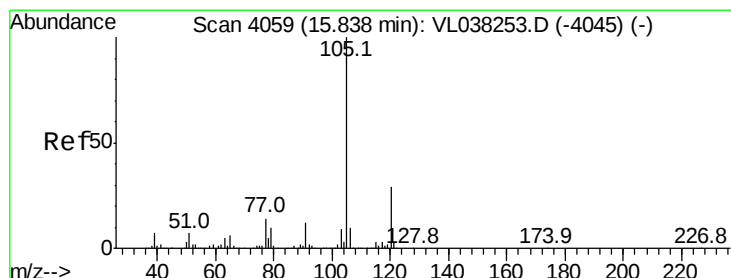
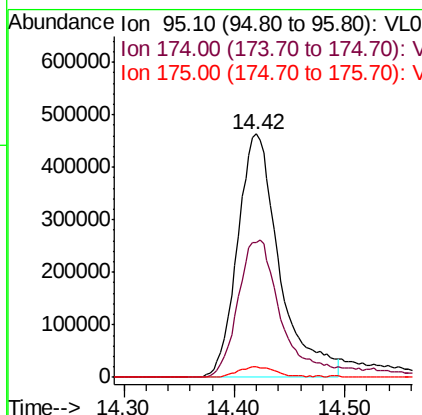
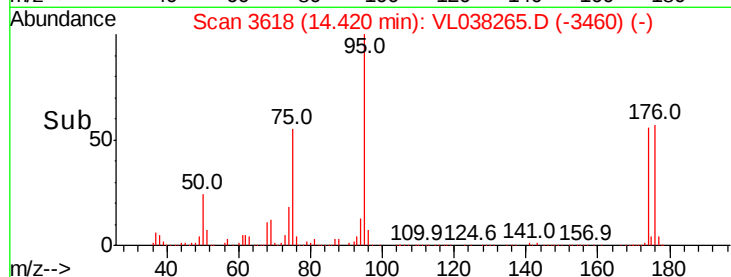
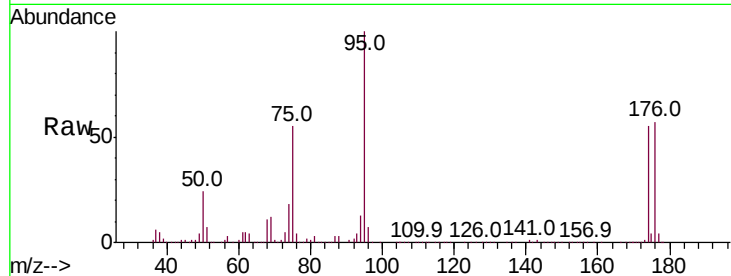


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.069 ppbv
 RT: 14.42
 Delta R.T. MSVOA_L
 Lab File: ClientSampled :
 Acq: 24 Jan 2022 18:30

Tot Ion:
 Ion Ratio
 95 100
 174 63.
 175 4.

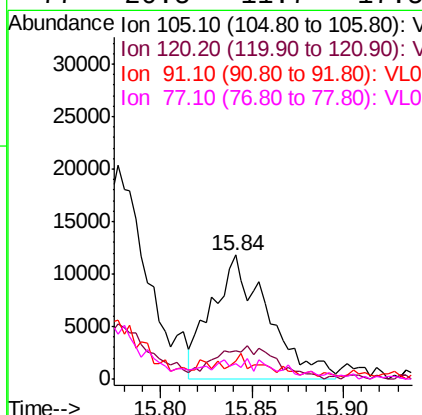
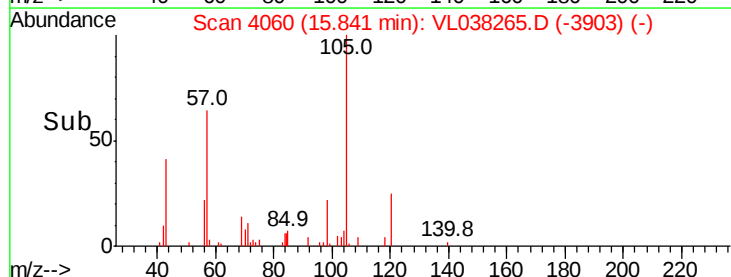
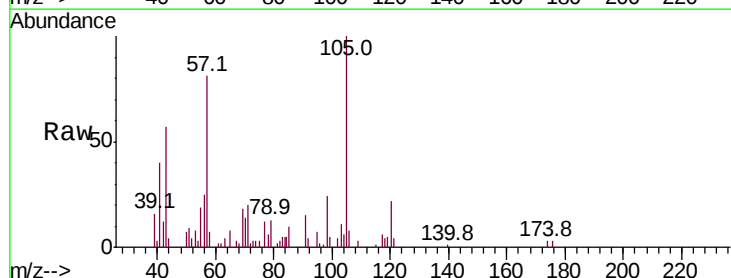
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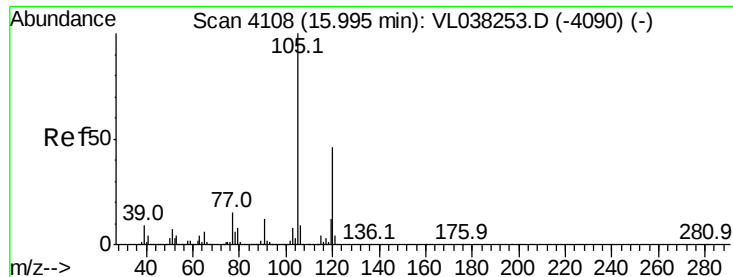
Reviewed By :Semsettin Yesilyurt 01/26/2022
 Supervised By :Mahesh Dadoda 01/26/2022



#72
 4-Ethyltoluene
 Concen: 0.130 ppbv m
 RT: 15.84 min Scan# 4060
 Delta R.T. 0.00 min
 Lab File: VL038265.D
 Acq: 24 Jan 2022 18:30

Tgt Ion:105 Resp: 25254
 Ion Ratio Lower Upper
 105 100
 120 31.3 23.8 35.8
 91 19.9 10.2 15.4#
 77 20.5 11.7 17.5#





#73

1,3,5-Trimethylbenzene

Concen: 0.124 ppbv m

RT: 16.00 min

Delta R.T. 0.00 min

Lab File: SVE-EFFLUENT

Acq: 24 Jan 2022 18:30

Tot Ion:1

Ion Ratio

105 100

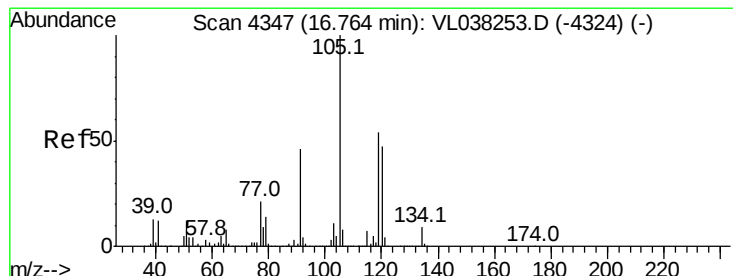
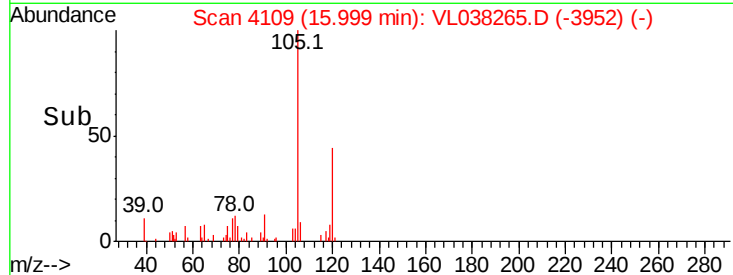
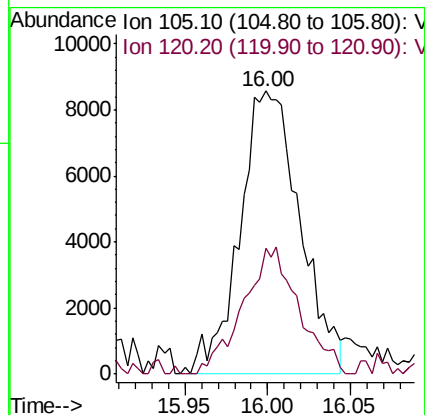
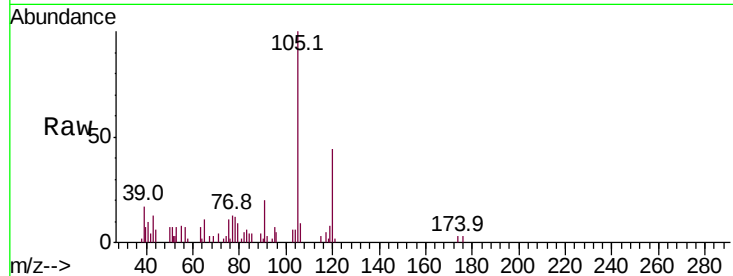
120 44.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/26/2022

Supervised By :Mahesh Dadoda 01/26/2022



#74

1,2,4-Trimethylbenzene

Concen: 0.353 ppbv

RT: 16.77 min Scan# 4348

Delta R.T. 0.00 min

Lab File: VL038265.D

Acq: 24 Jan 2022 18:30

Tgt Ion:105 Resp: 65198

Ion Ratio Lower Upper

105 100

120 39.2 37.2 55.8

91 13.8 36.6 55.0#

77 13.6 16.9 25.3#

