

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012422\
 Data File : VL038266.D
 Acq On : 24 Jan 2022 19:11
 Operator : SY/AP
 Sample : N1211-02DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 SVE-EFFLUENTDUP

Manual Integrations
 APPROVED

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

Quant Time: Jan 25 14:31:38 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	782224	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2035465	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	1593580	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1249568	10.33	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.30%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	35004	0.210	ppbv	92
4) Chloromethane	3.15	50	25779	0.481	ppbv	91
10) Heptane	8.13	43	54110	0.415	ppbv	95
11) Trichlorofluoromethane	3.96	101	26229	0.202	ppbv	97
13) Ethanol	3.61	45	1561585	286.957	ppbv	97
15) Acetone	3.85	43	2355127m	34.154	ppbv	
19) Isopropyl Alcohol	3.98	45	268883m	6.233	ppbv	
20) Methylene Chloride	4.35	84	146307	3.648	ppbv	97
25) Ethyl Acetate	5.69	43	217429m	1.126	ppbv	
26) Hexane	5.69	57	101584	1.131	ppbv	97
30) Cyclohexane	7.14	84	72079	0.922	ppbv	95
34) 2-Butanone	5.25	43	110908	1.666	ppbv	95
35) Carbon Tetrachloride	7.03	117	10532m	0.074	ppbv	
36) Benzene	6.90	78	69909	0.388	ppbv	95
39) 1,2-Dichloropropane	7.62	63	26424m	0.362	ppbv	
41) Tetrahydrofuran	6.06	42	68406	1.529	ppbv	98
44) 2,2,4-Trimethylpentane	7.87	57	67691m	0.213	ppbv	
52) Tetrachloroethene	11.23	164	7164m	0.115	ppbv	
53) Toluene	9.81	91	1816504	9.115	ppbv	99
58) Ethyl Benzene	12.72	91	91295	0.390	ppbv	92
59) m/p-Xylene	12.97	91	360800	1.806	ppbv	97
60) o-Xylene	13.70	91	145557	0.783	ppbv	99
61) Styrene	13.53	104	14377m	0.166	ppbv	
72) 4-Ethyltoluene	15.84	105	24143m	0.124	ppbv	
73) 1,3,5-Trimethylbenzene	16.00	105	21515m	0.123	ppbv	
74) 1,2,4-Trimethylbenzene	16.77	105	64516m	0.350	ppbv	

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

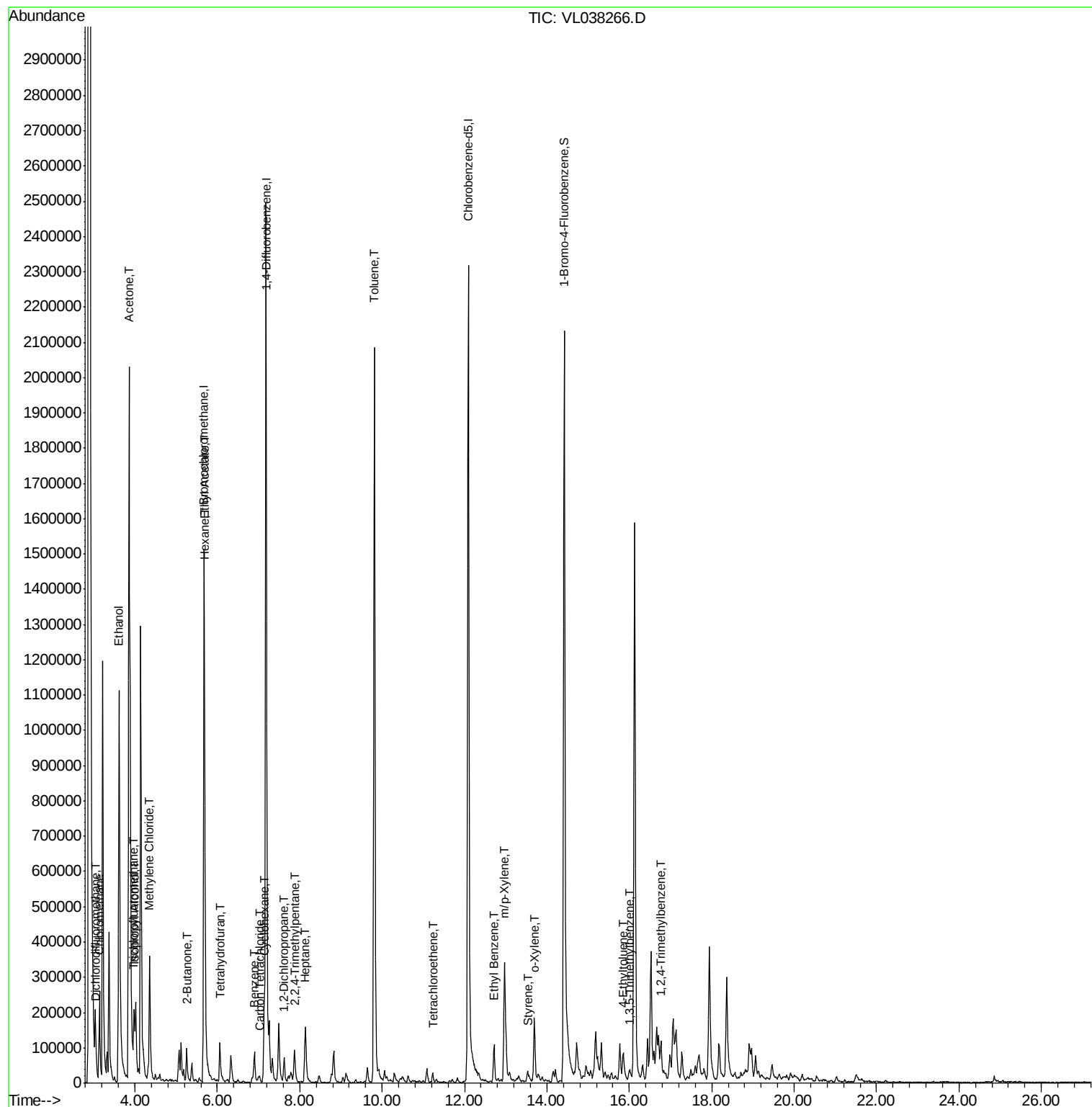
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL012422\
Data File : VL038266.D
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Instrument :
MSVOA_L
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument: MSVOA_1

Delta R.T. 0.00

Lab File: ClientSampleId: SVE-EFFLUENTDUP

Acq: 24 Jan 2022 19:11

Tot Ion:

Ion Ratio

49 100

128 45.

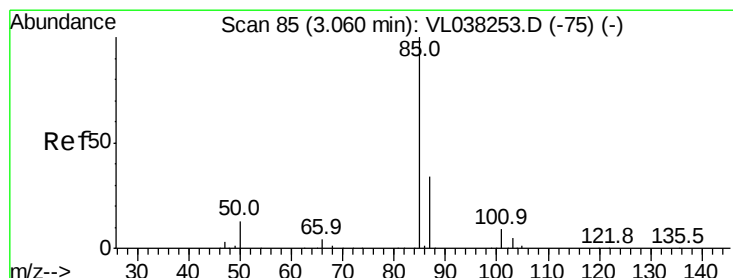
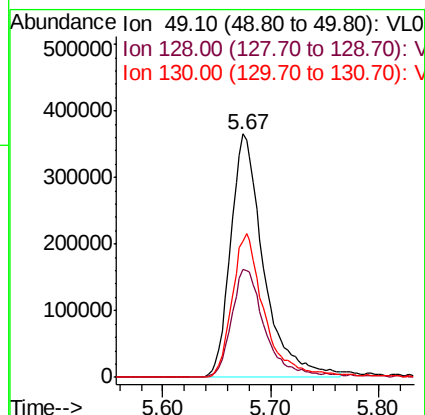
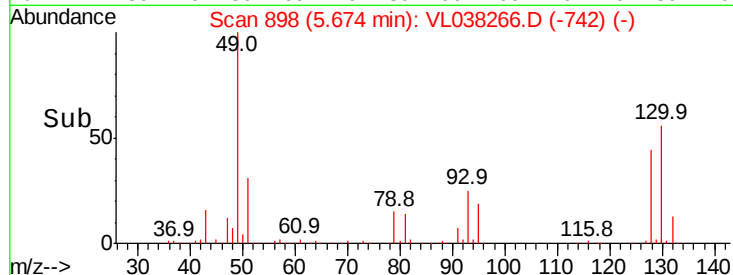
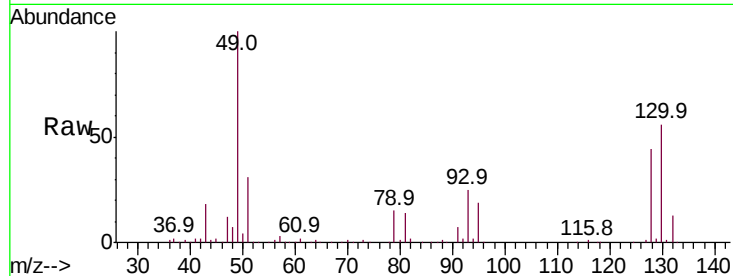
130 58.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/26/2022

Supervised By :Mahesh Dadoda 01/26/2022



#2

Dichlorodifluoromethane

Concen: 0.210 ppbv

RT: 3.06 min Scan# 85

Delta R.T. 0.00 min

Lab File: VL038266.D

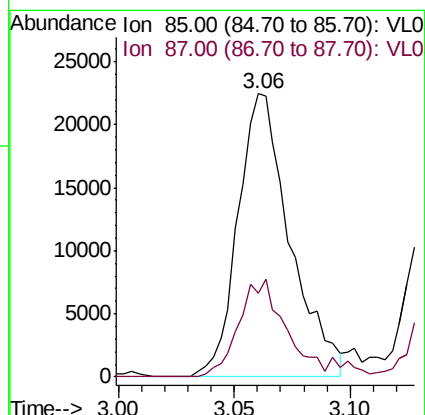
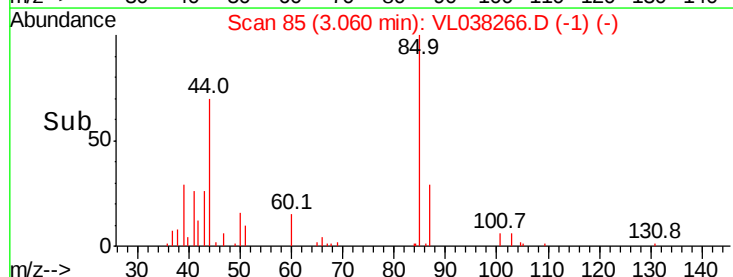
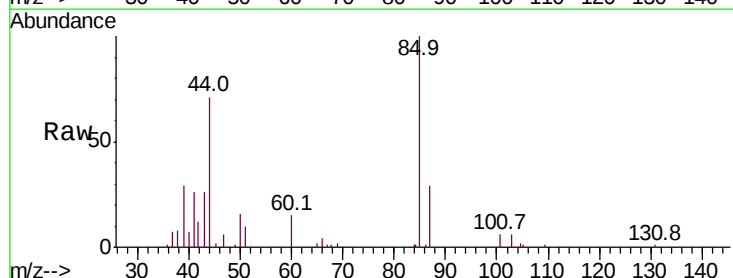
Acq: 24 Jan 2022 19:11

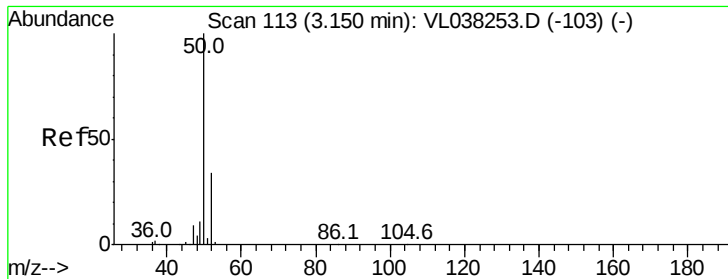
Tgt Ion: 85 Resp: 35004

Ion Ratio Lower Upper

85 100

87 29.4 27.0 40.6





#4

Chloromethane

Concen: 0.481 ppbv

RT: 3.15 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Jan 2022 19:11 SVE-EFFLUENTDUP

Tot Ion:

Ion Ratio

50 100

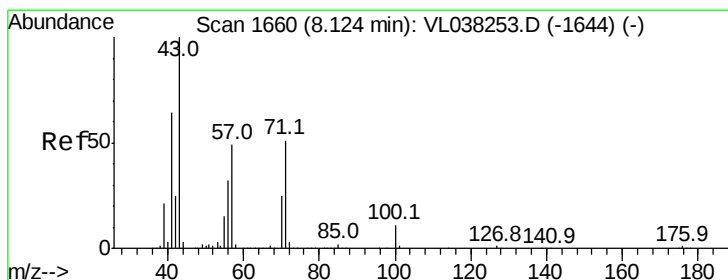
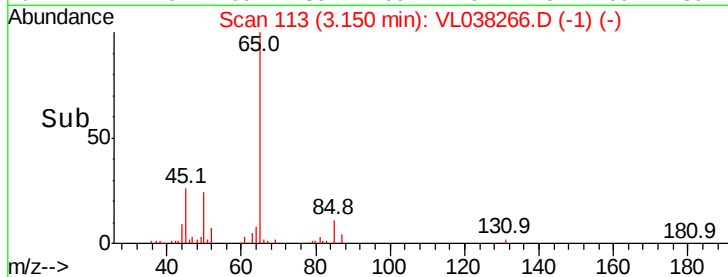
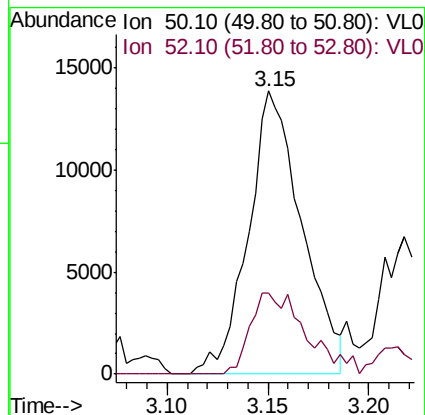
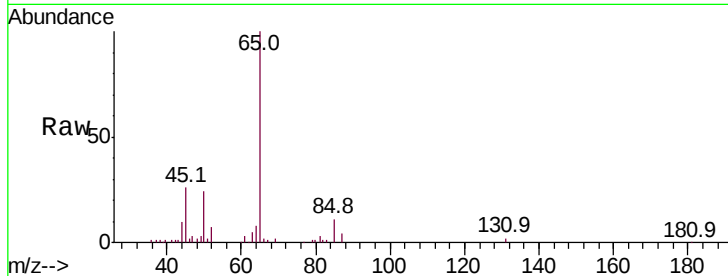
52 28.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/26/2022

Supervised By :Mahesh Dadoda 01/26/2022



#10

Heptane

Concen: 0.415 ppbv

RT: 8.13 min Scan# 1663

Delta R.T. 0.01 min

Lab File: VL038266.D

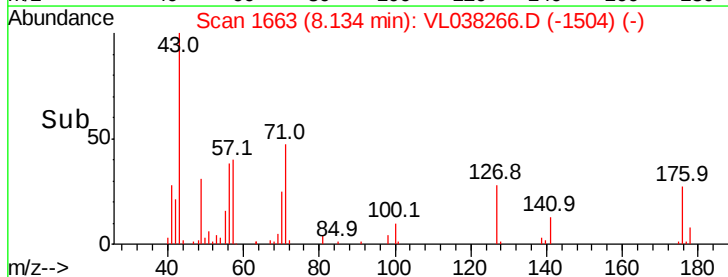
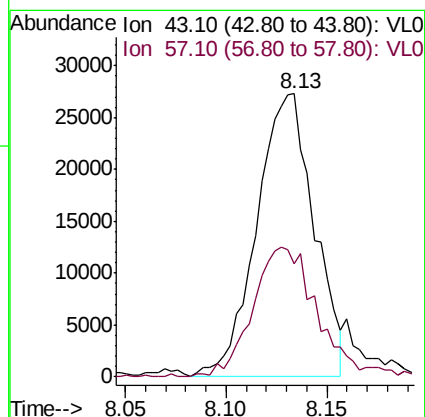
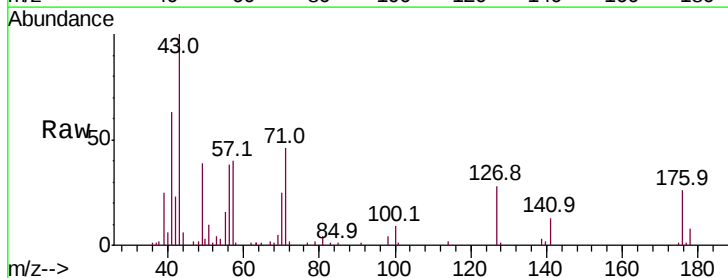
Acq: 24 Jan 2022 19:11

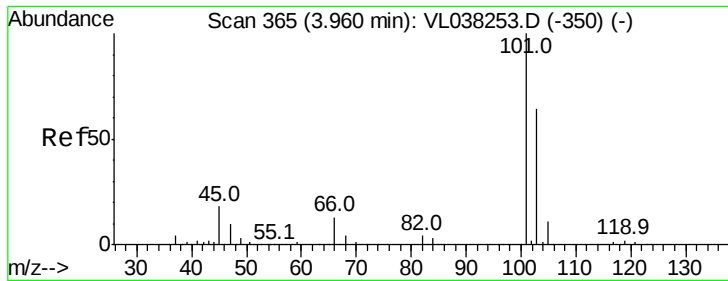
Tgt Ion: 43 Resp: 54110

Ion Ratio Lower Upper

43 100

57 52.6 39.5 59.3



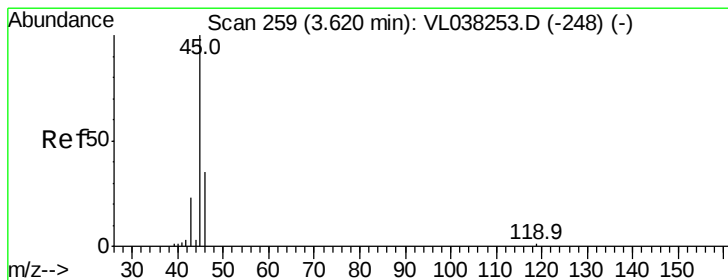
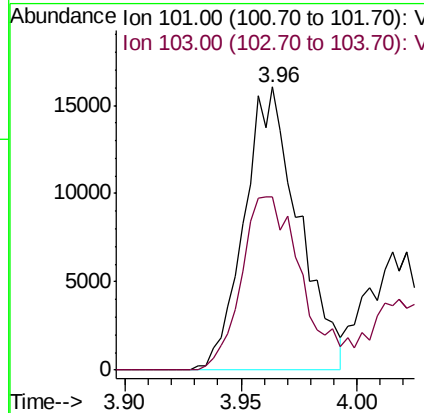
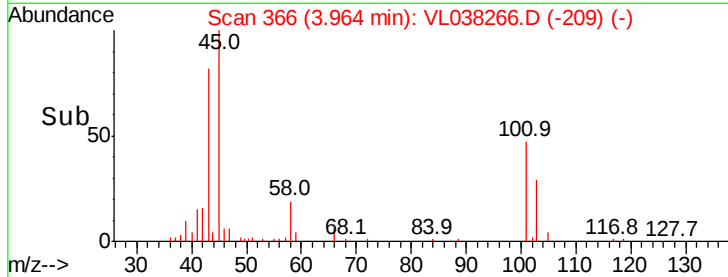
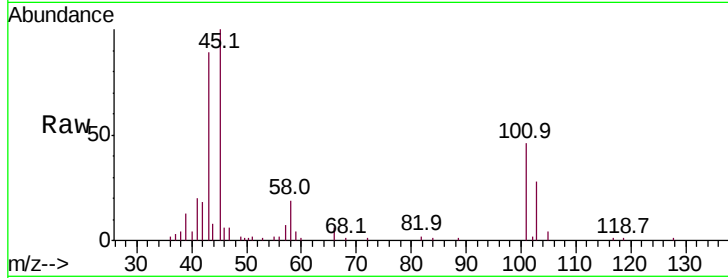


#11
 Trichlorofluoromethane
 Concen: 0.202 ppbv
 RT: 3.96
 Instrument: MSVOA_L
 Delta R.T.
 Lab File: ClientSampleId:
 SVE-EFFLUENTDUP
 Acq: 24 Jan 2022 19:11

Tot Ion:1
 Ion Rati
 101 100
 103 61.

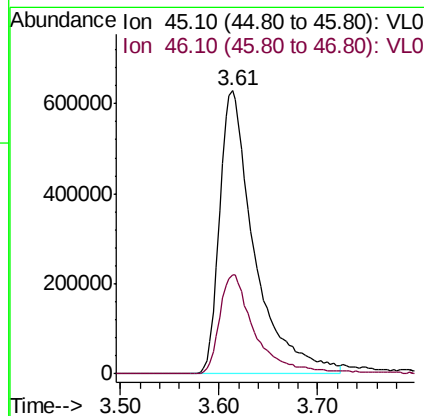
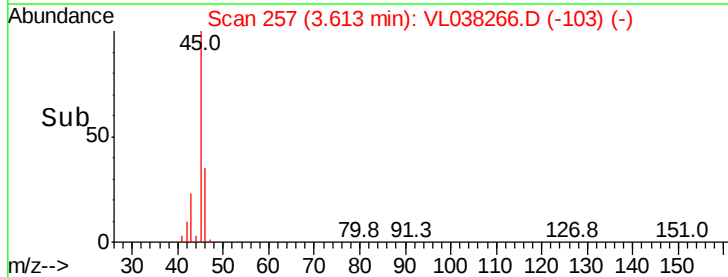
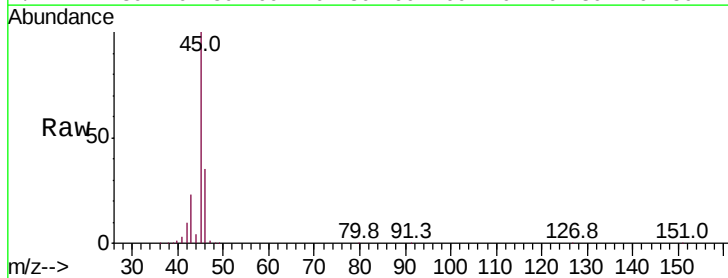
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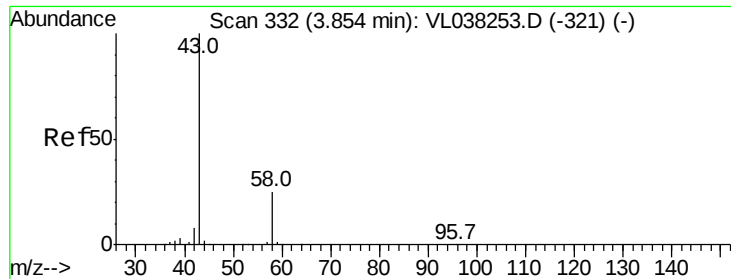
Reviewed By :Semsettin Yesilyurt 01/26/2022
 Supervised By :Mahesh Dadoda 01/26/2022



#13
 Ethanol
 Concen: 286.957 ppbv
 RT: 3.61 min Scan# 257
 Delta R.T. -0.01 min
 Lab File: VL038266.D
 Acq: 24 Jan 2022 19:11

Tgt Ion: 45 Resp: 1561585
 Ion Ratio Lower Upper
 45 100
 46 37.0 15.4 61.6





#15

Acetone

Concen: 34.154 ppbv m

RT: 3.85

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Jan 2022 19:11

Tot Ion:

Ion Ratio

43 100

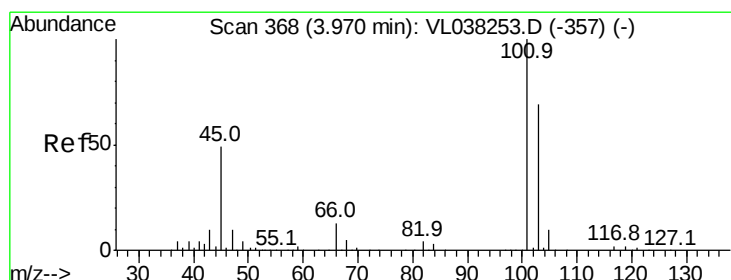
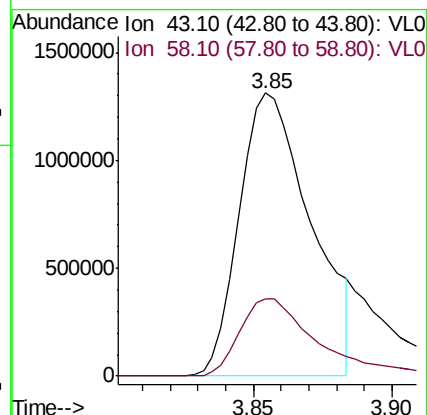
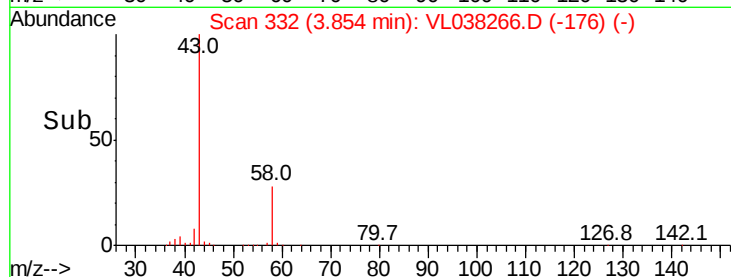
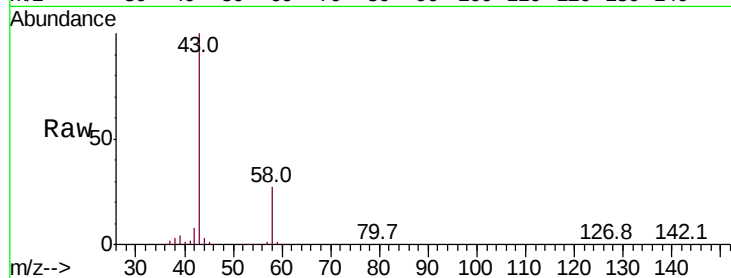
58 31.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/26/2022

Supervised By :Mahesh Dadoda 01/26/2022



#19

Isopropyl Alcohol

Concen: 6.233 ppbv m

RT: 3.98 min Scan# 371

Delta R.T. 0.01 min

Lab File: VL038266.D

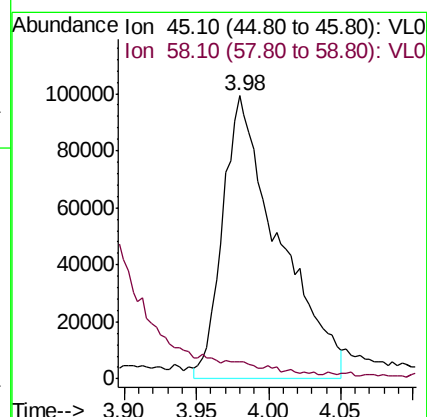
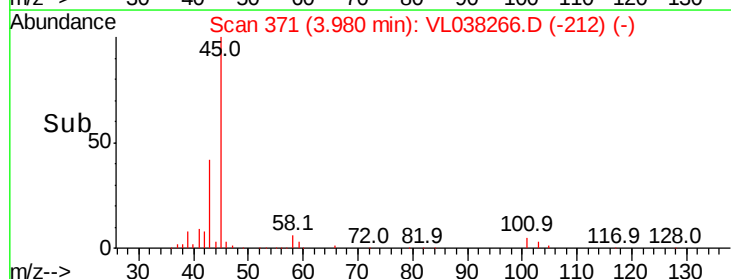
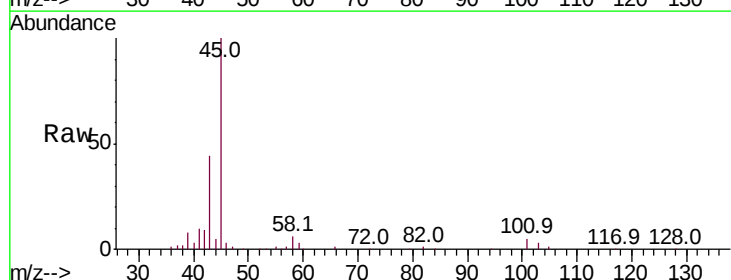
Acq: 24 Jan 2022 19:11

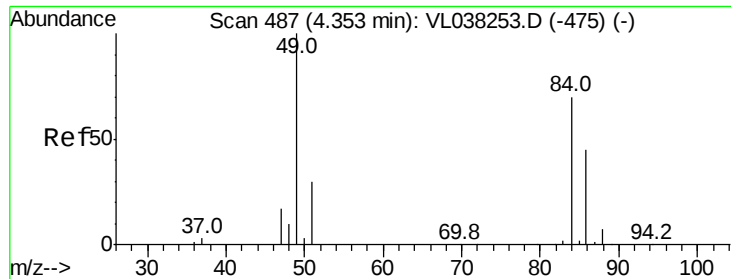
Tgt Ion: 45 Resp: 268883

Ion Ratio Lower Upper

45 100

58 0.0 2.3 3.5#



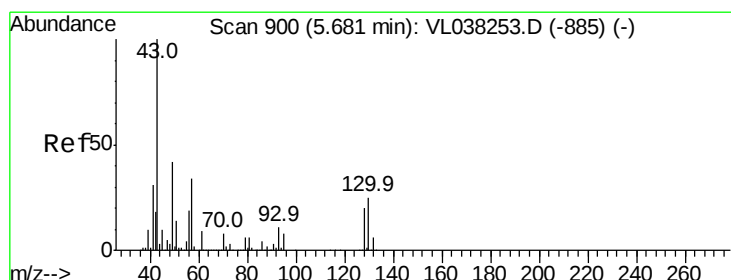
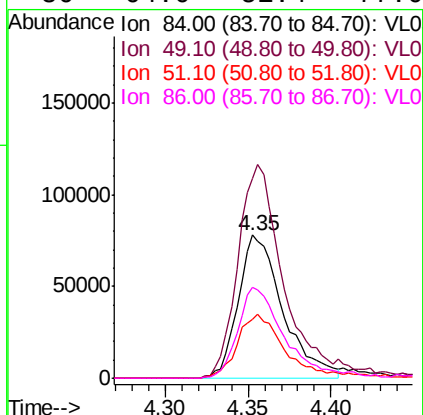
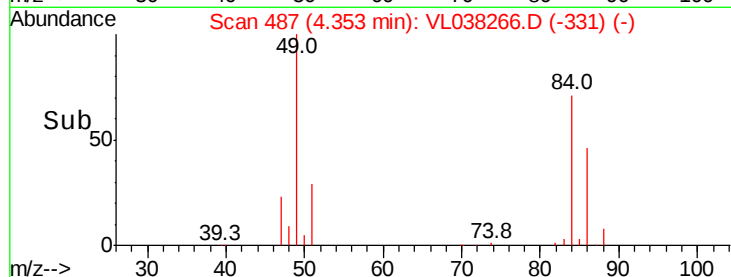
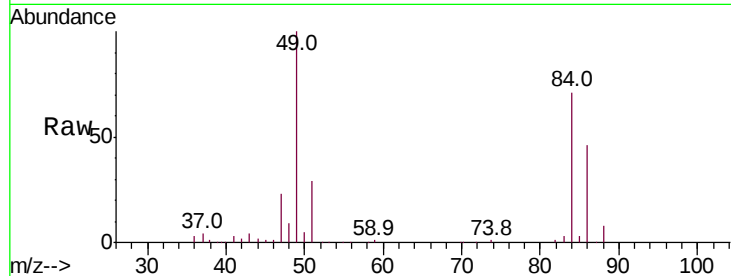


#20
Methvlene Chloride
Concen: 3.648 ppbv
RT: 4.35
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 Jan 2022 19:11 SVE-EFFLUENTDUP

Tot Ion:
Ion Ratio
84 100
49 139.
51 40.
86 64.0 51.4 77.0

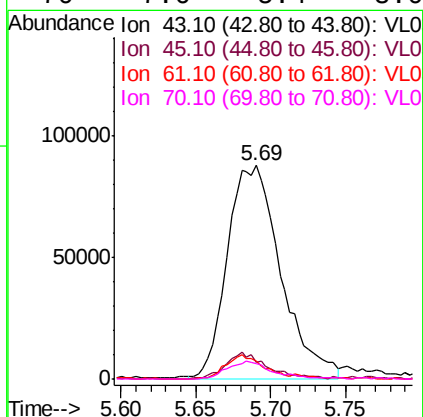
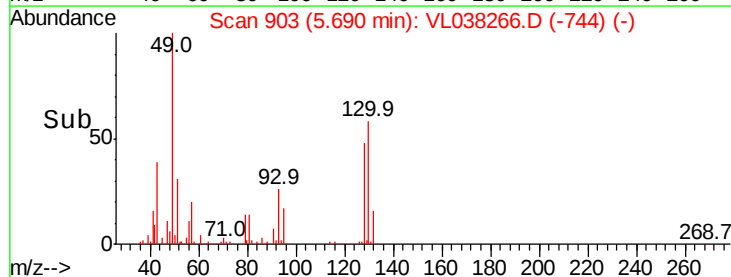
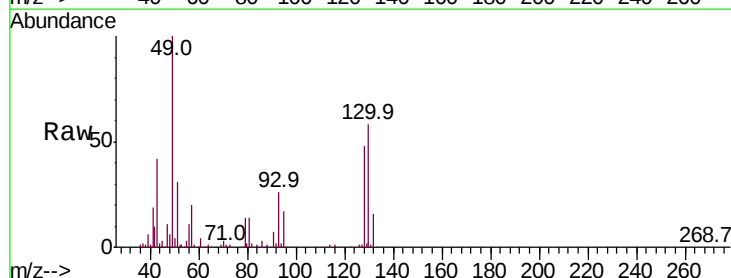
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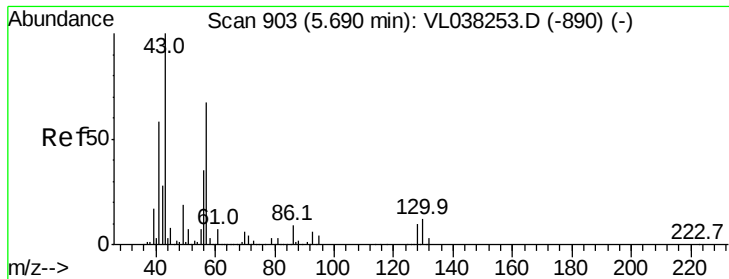
Reviewed By :Semsettin Yesilyurt 01/26/2022
Supervised By :Mahesh Dadoda 01/26/2022



#25
Ethyl Acetate
Concen: 1.126 ppbv m
RT: 5.69 min Scan# 903
Delta R.T. 0.01 min
Lab File: VL038266.D
Acq: 24 Jan 2022 19:11

Tgt Ion: 43 Resp: 217429
Ion Ratio Lower Upper
43 100
45 9.7 7.9 11.9
61 9.2 7.8 11.8
70 7.6 5.4 8.0



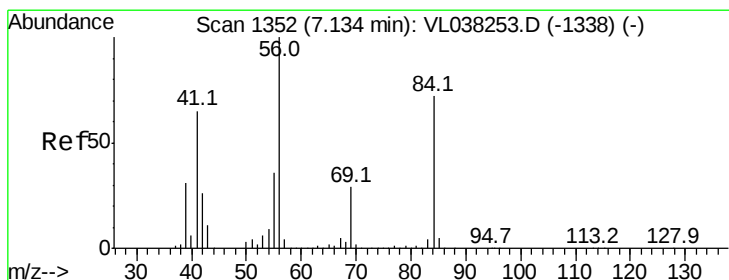
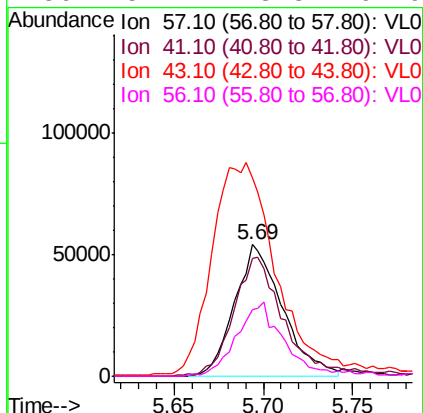
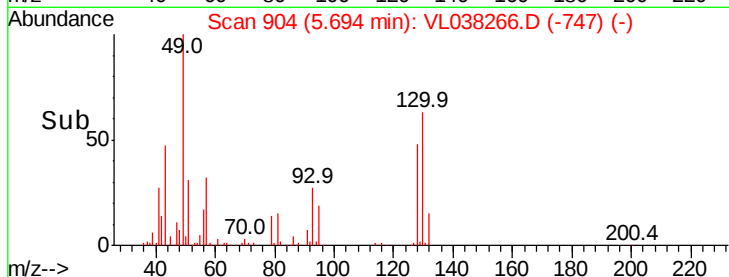
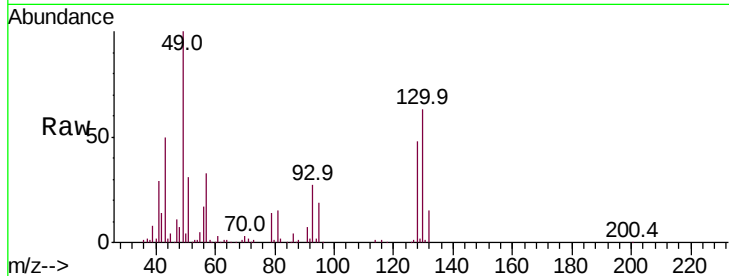


#26
Hexane
Concen: 1.131 ppbv
RT: 5.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 Jan 2022 19:11
SVE-EFFLUENTDUP

Tot Ion: 57.10 (56.80 to 57.80): VL0
Ion Ratio: 57 100
41 96.4
43 222.7
56 57.4 43.3 64.9

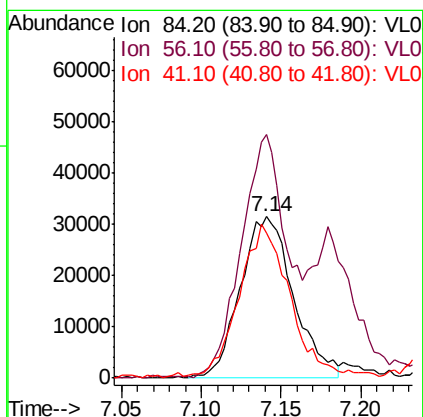
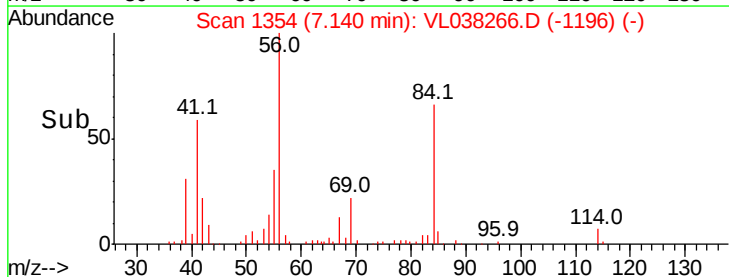
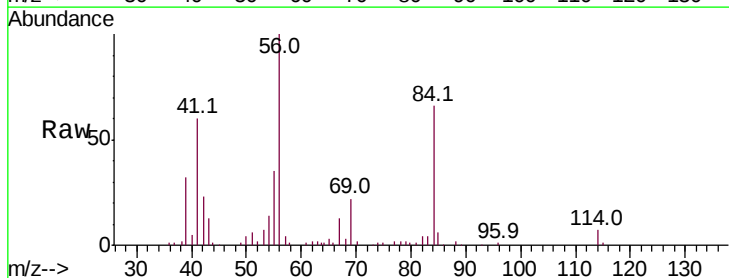
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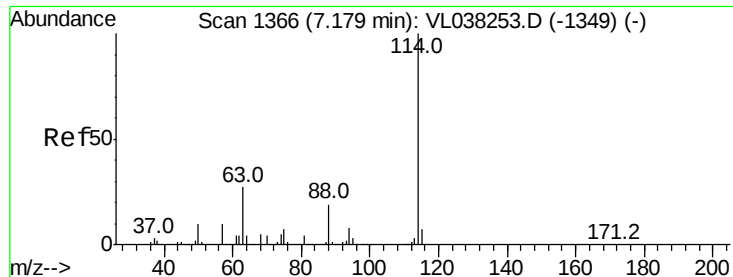
Reviewed By :Semsettin Yesilyurt 01/26/2022
Supervised By :Mahesh Dadoda 01/26/2022



#30
Cyclohexane
Concen: 0.922 ppbv
RT: 7.14 min Scan# 1354
Delta R.T. 0.01 min
Lab File: VL038266.D
Acq: 24 Jan 2022 19:11

Tgt Ion: 84 Resp: 72079
Ion Ratio Lower Upper
84 100
56 132.7 112.7 169.1
41 90.2 71.1 106.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18

Instrument: MSVOA_1

Delta R.T.:

Lab File: ClientSampleId:

Acq: 24 Jan 2022 19:11

Tot Ion: 1

Ion Ratio

114 100

63 27.

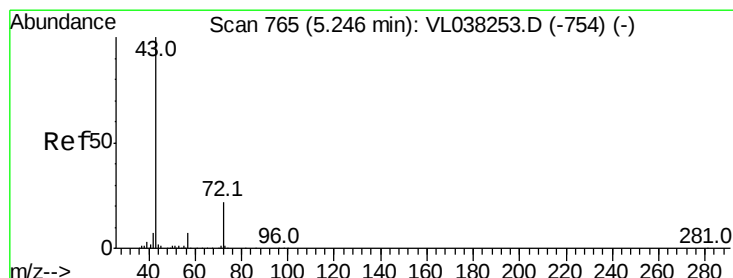
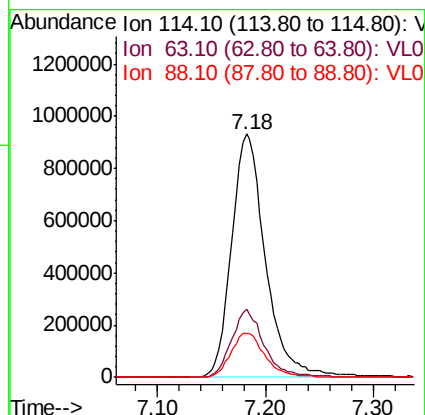
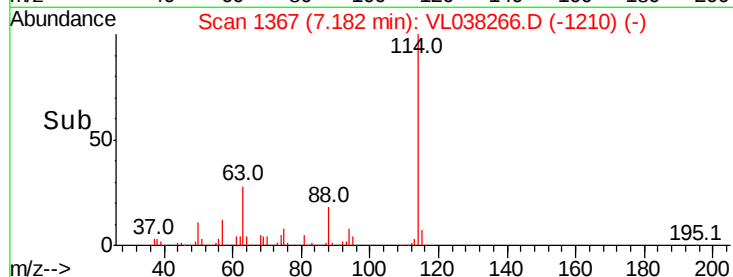
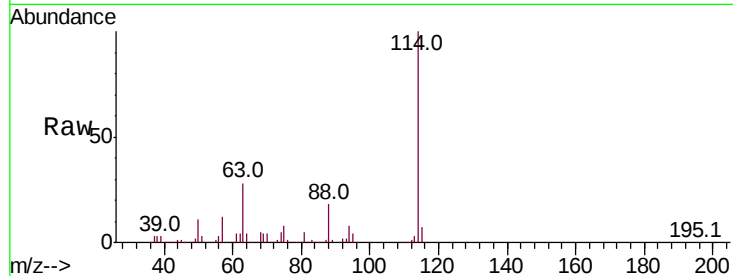
88 18.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/26/2022

Supervised By :Mahesh Dadoda 01/26/2022



#34

2-Butanone

Concen: 1.666 ppbv

RT: 5.25 min Scan# 767

Delta R.T. 0.01 min

Lab File: VL038266.D

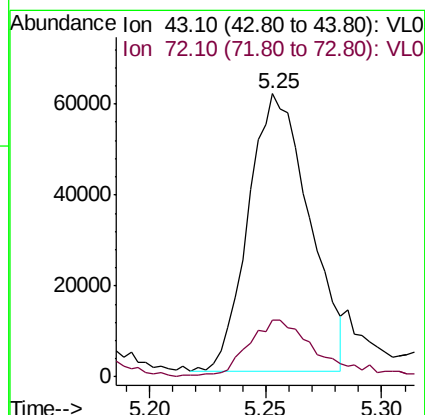
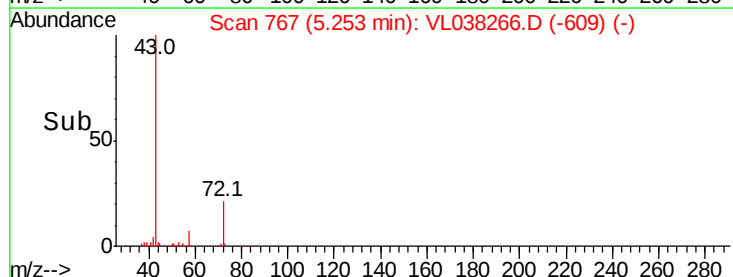
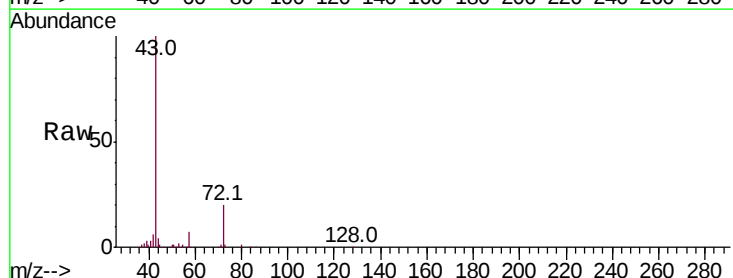
Acq: 24 Jan 2022 19:11

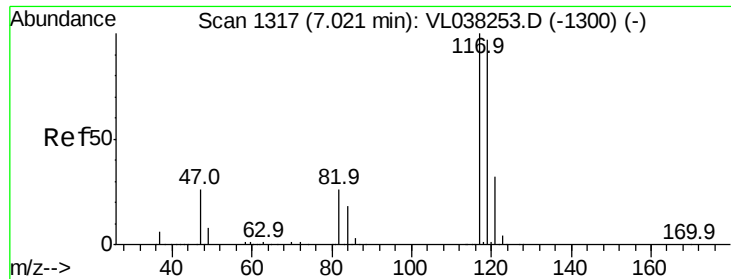
Tgt Ion: 43 Resp: 110908

Ion Ratio Lower Upper

43 100

72 25.2 18.1 27.1





#35

Carbon Tetrachloride

Concen: 0.074 ppbv m

RT: 7.03 Instrument:

Delta R.T. MSVOA_L

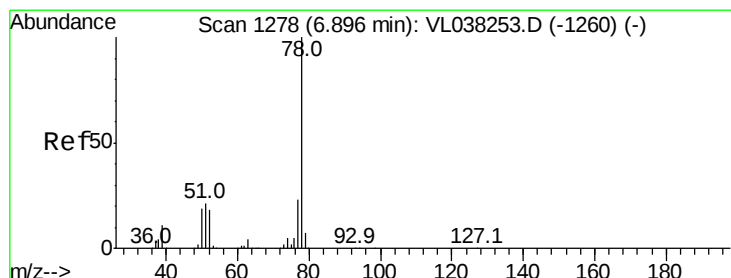
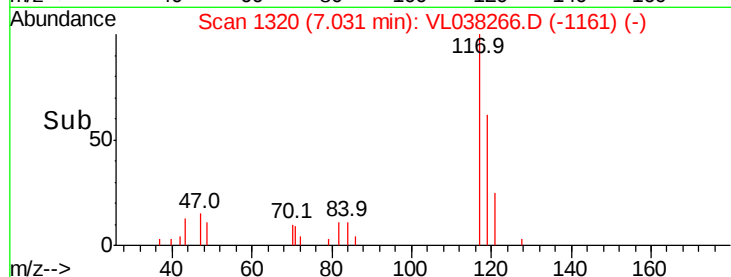
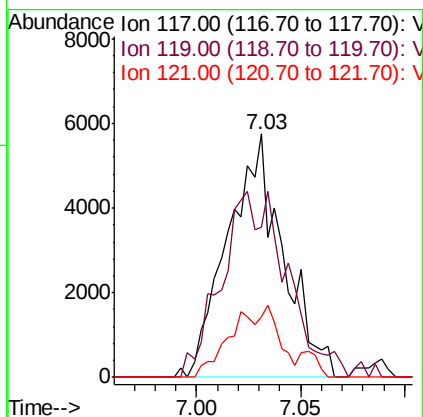
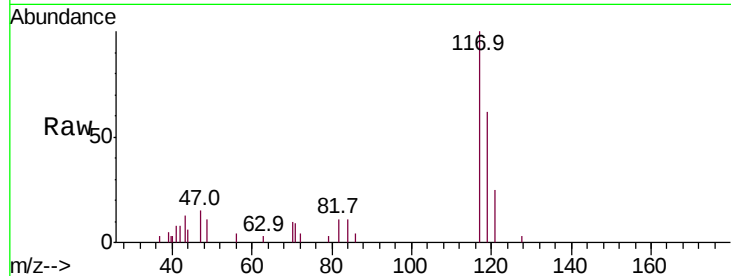
Lab File: ClientSampleId:

Acq: 24 Jan 2022 19:11 SVE-EFFLUENTDUP

Tot Ion:1
Ion Rati
117 100
119 61.
121 25.

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



#36

Benzene

Concen: 0.388 ppbv

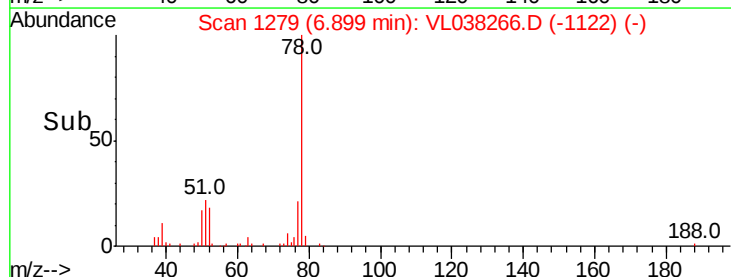
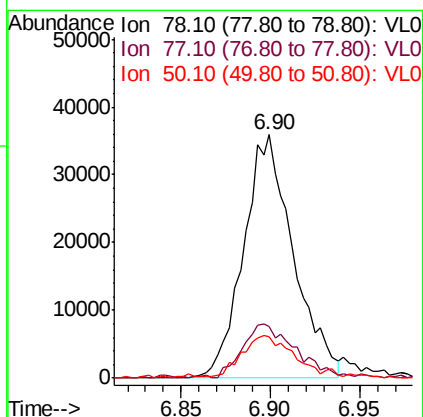
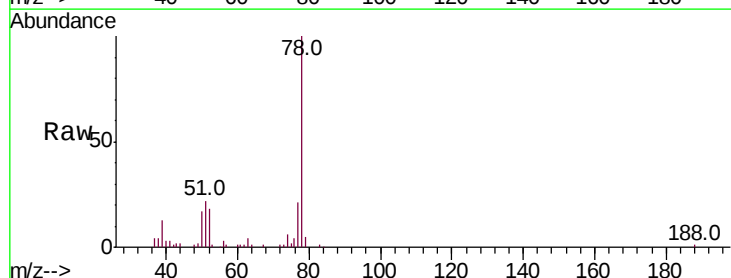
RT: 6.90 min Scan# 1279

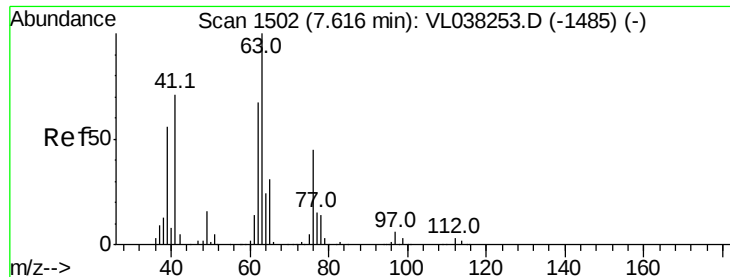
Delta R.T. 0.00 min

Lab File: VL038266.D

Acq: 24 Jan 2022 19:11

Tgt Ion: 78 Resp: 69909
Ion Ratio Lower Upper
78 100
77 21.3 18.2 27.2
50 15.9 15.1 22.7





#39

1,2-Dichloropropane

Concen: 0.362 ppbv m

RT: 7.62 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Jan 2022 19:11 SVE-EFFLUENTDUP

Tot Ion:

Ion Ratio

63 100

41 74.

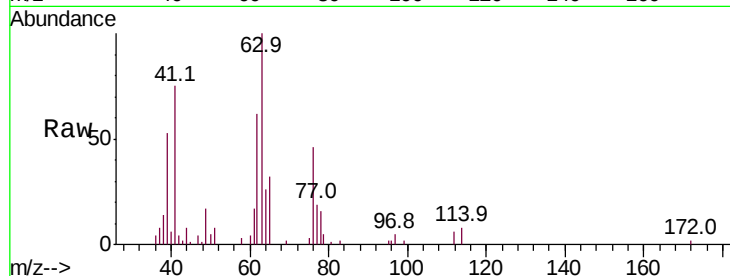
62 62.

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Reviewed By :Semsettin Yesilyurt 01/26/2022

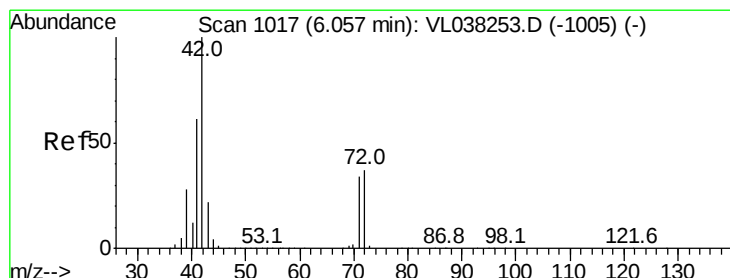
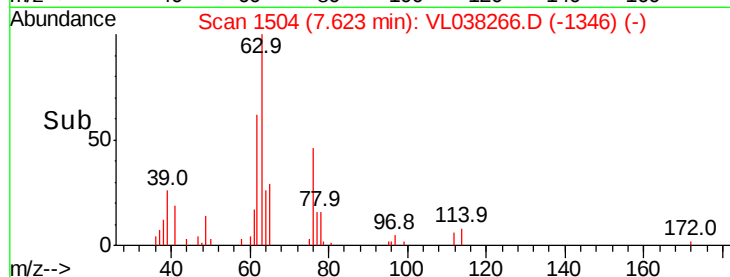
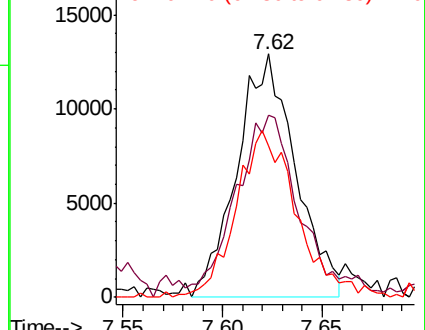
Supervised By :Mahesh Dadoda 01/26/2022



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: 1.529 ppbv

RT: 6.06 min Scan# 1018

Delta R.T. 0.00 min

Lab File: VL038266.D

Acq: 24 Jan 2022 19:11

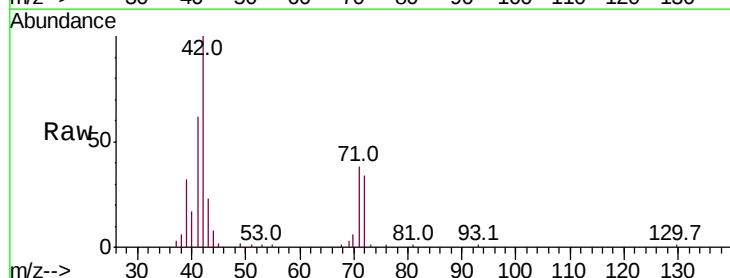
Tgt Ion: 42 Resp: 68406

Ion Ratio Lower Upper

42 100

72 38.4 29.7 44.5

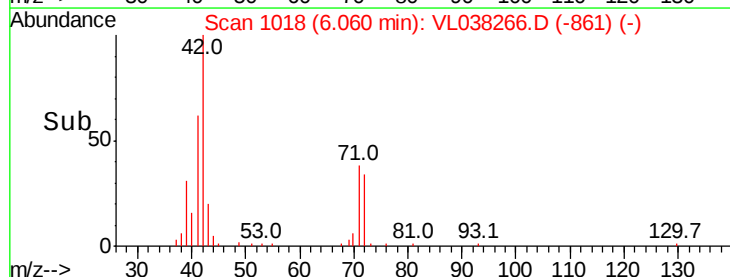
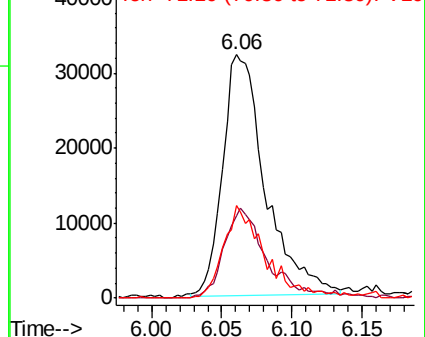
71 38.3 29.4 44.2

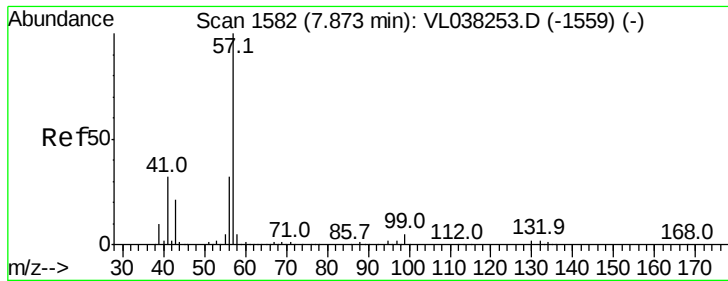


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



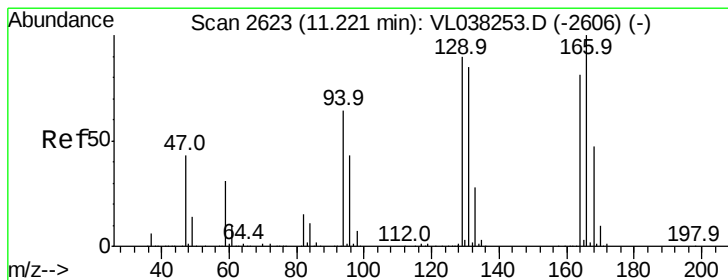
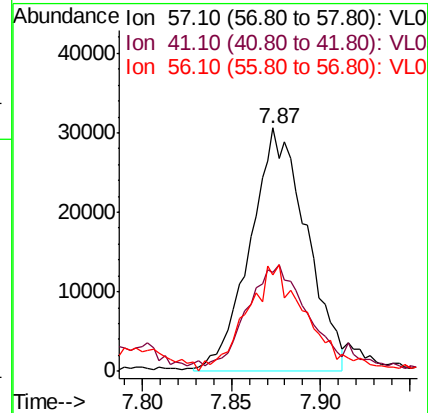
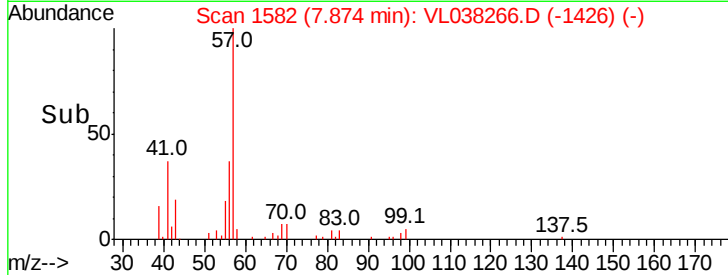
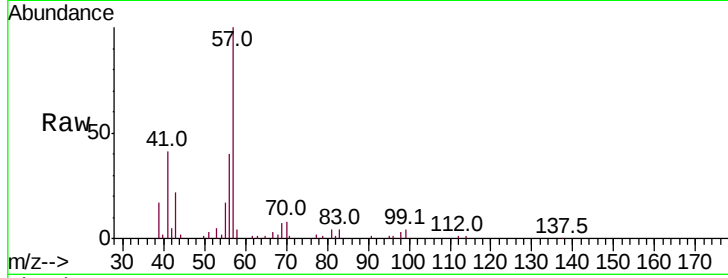


#44
2,2,4-Trimethylpentane
Concen: 0.213 ppbv m
RT: 7.87
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 24 Jan 2022 19:11 SVE-EFFLUENTDUP

Tot Ion:
Ion Ratio
57 100
41 48.
56 48.

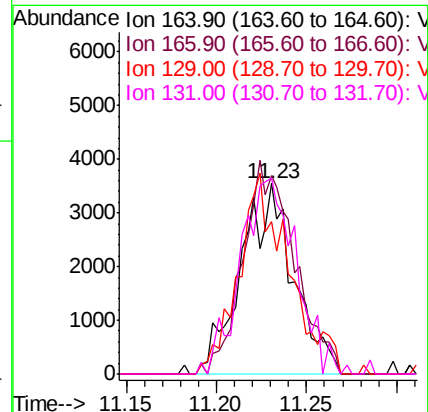
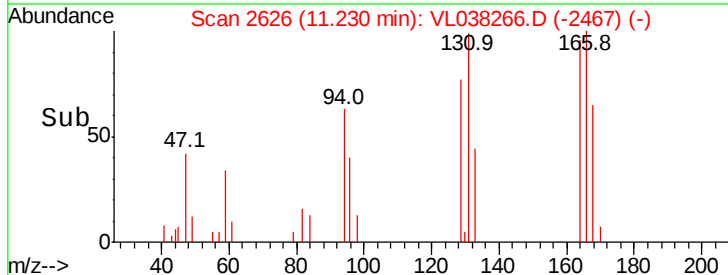
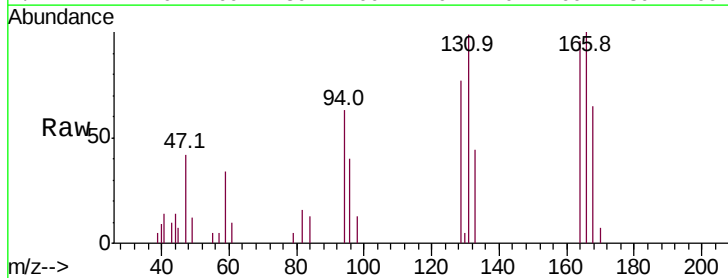
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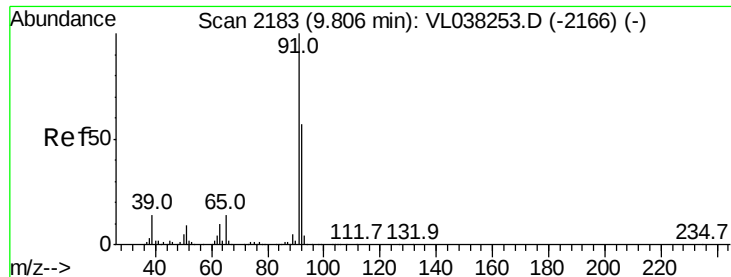
Reviewed By :Semsettin Yesilyurt 01/26/2022
Supervised By :Mahesh Dadoda 01/26/2022



#52
Tetrachloroethene
Concen: 0.115 ppbv m
RT: 11.23 min Scan# 2626
Delta R.T. 0.01 min
Lab File: VL038266.D
Acq: 24 Jan 2022 19:11

Tgt Ion:164 Resp: 7164
Ion Ratio Lower Upper
164 100
166 103.9 98.8 148.2
129 80.1 89.2 133.8#
131 102.9 83.6 125.4





#53

Toluene

Concen: 9.115 ppbv

RT: 9.81 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Jan 2022 19:11 SVE-EFFLUENTDUP

Tot Ion:

Ion Ratio

91 100

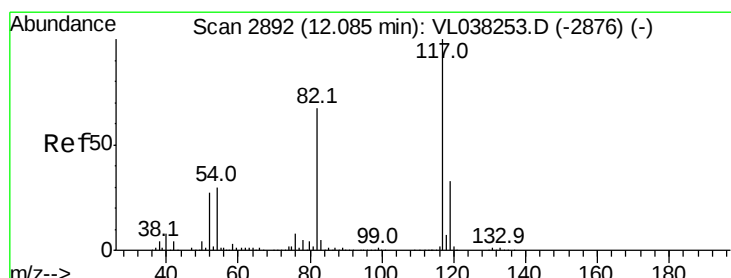
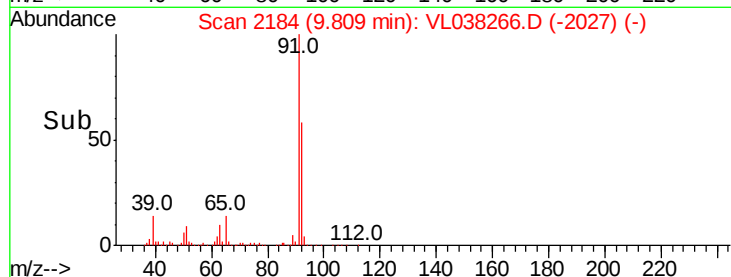
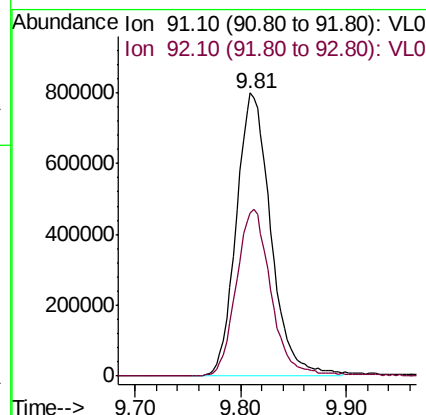
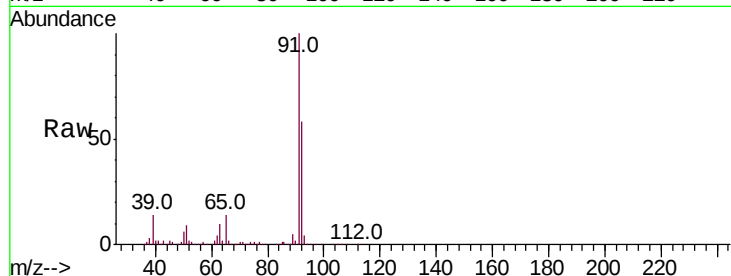
92 60.

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APPROVED

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: VL038266.D

Acq: 24 Jan 2022 19:11

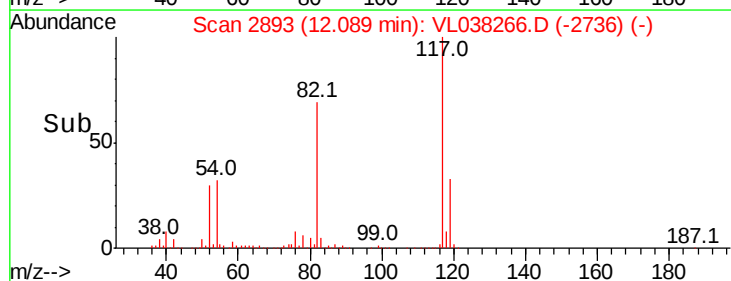
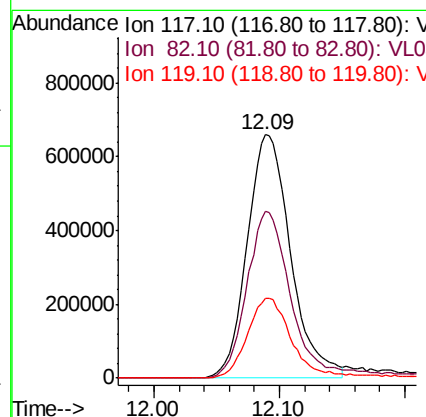
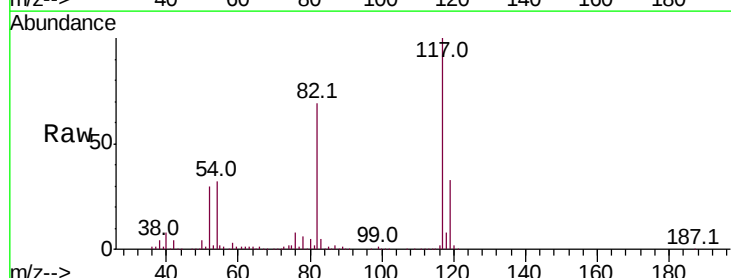
Tgt Ion:117 Resp: 1593580

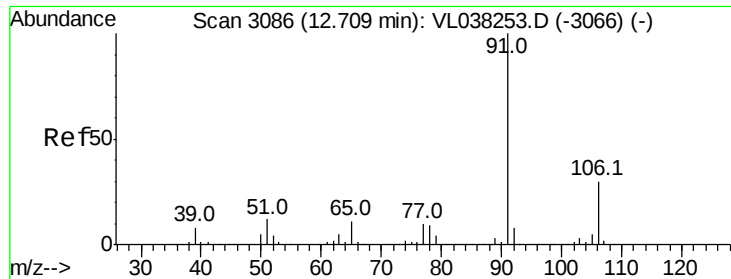
Ion Ratio Lower Upper

117 100

82 74.8 54.4 81.6

119 34.8 45.9 68.9#



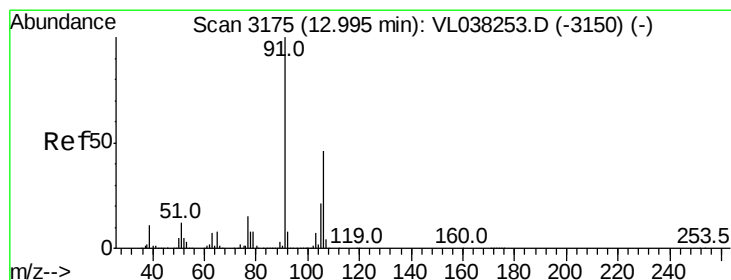
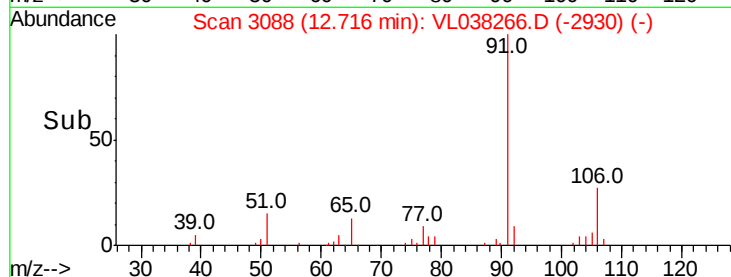
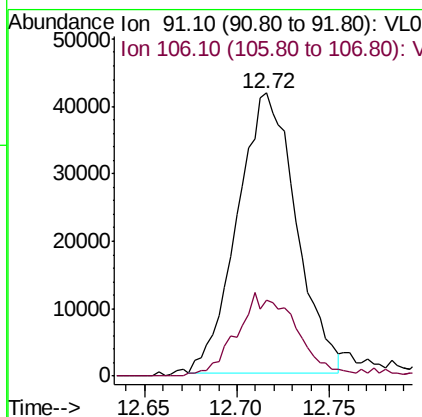
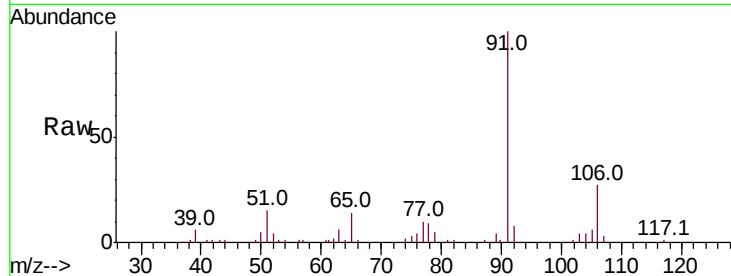


#58
Ethyl Benzene
Concen: 0.390 ppbv
RT: 12.72
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
SVE-EFFLUENTDUP
Acq: 24 Jan 2022 19:11

Tot Ion:
Ion Ratio
91 100
106 25.

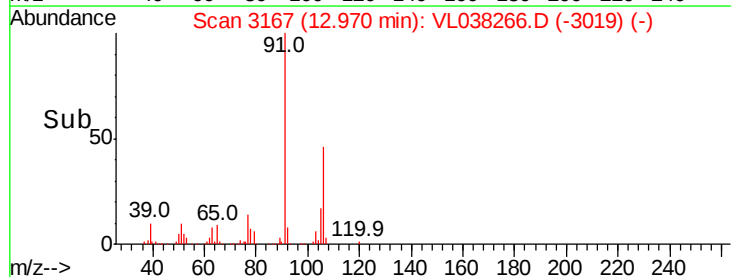
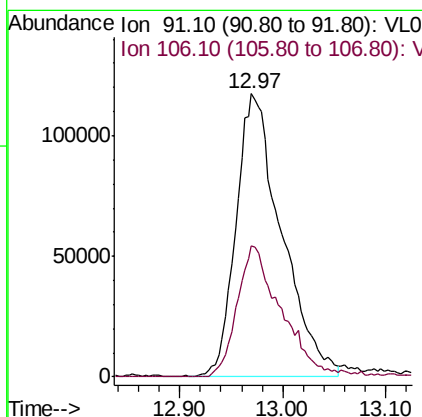
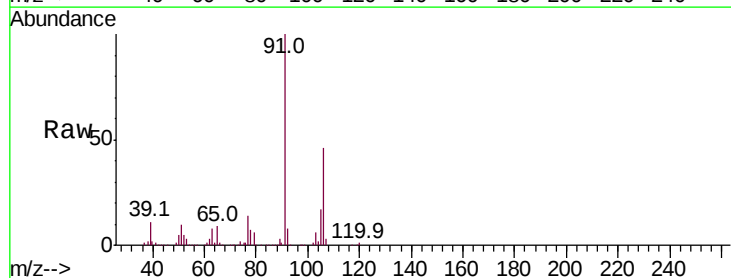
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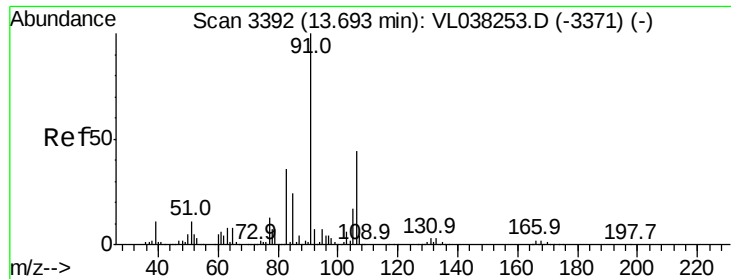
Reviewed By :Semsettin Yesilyurt 01/26/2022
Supervised By :Mahesh Dadoda 01/26/2022



#59
m/p-Xylene
Concen: 1.806 ppbv
RT: 12.97 min Scan# 3167
Delta R.T. -0.03 min
Lab File: VL038266.D
Acq: 24 Jan 2022 19:11

Tgt Ion: 91 Resp: 360800
Ion Ratio Lower Upper
91 100
106 45.4 34.8 52.2



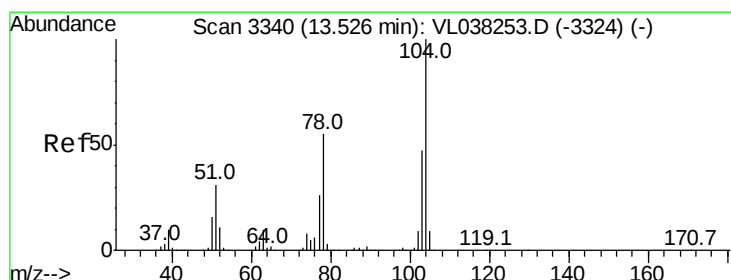
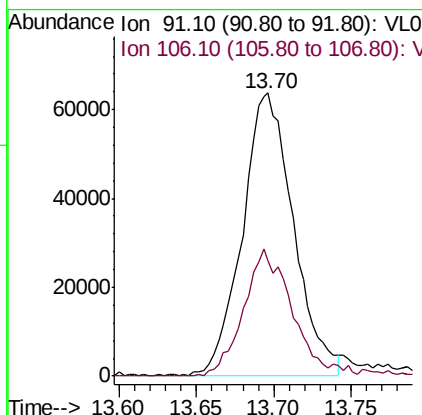
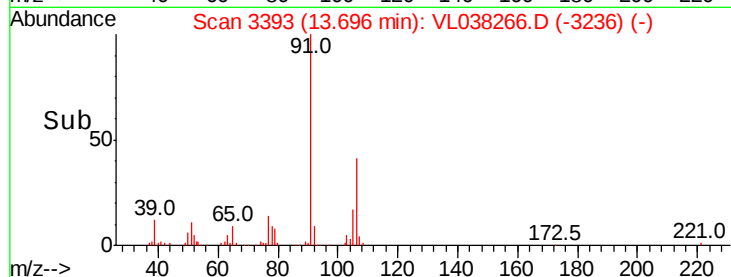
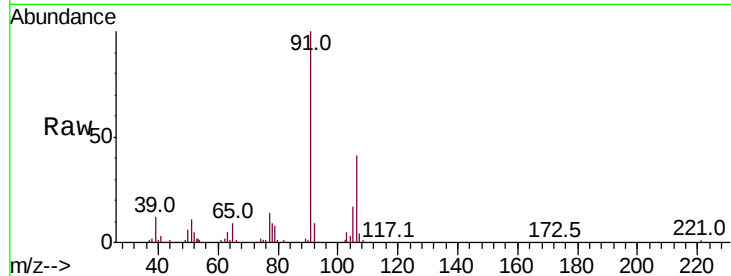


#60
o-Xylene
Concen: 0.783 ppbv
RT: 13.70
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SVE-EFFLUENTDUP
Acq: 24 Jan 2022 19:11

Tot Ion:
Ion Ratio
91 100
106 45.

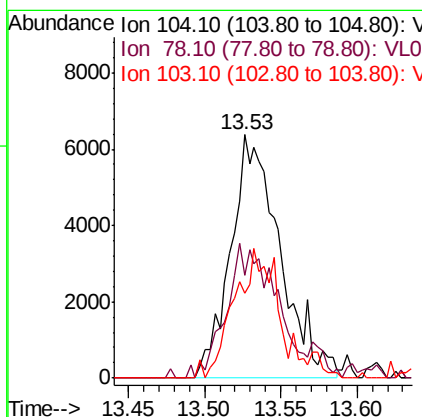
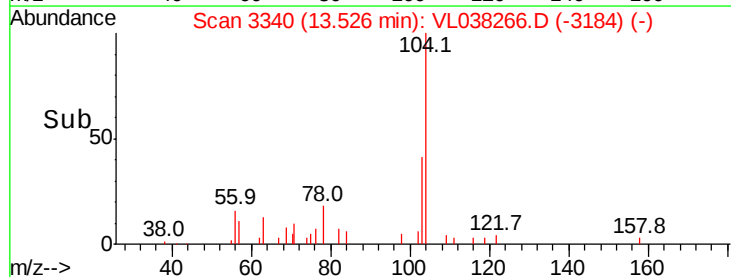
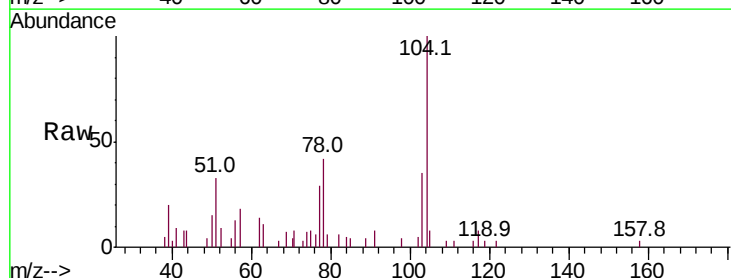
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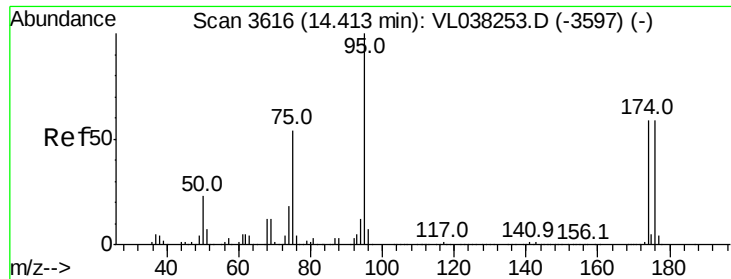
Reviewed By :Semsettin Yesilyurt 01/26/2022
Supervised By :Mahesh Dadoda 01/26/2022



#61
Styrene
Concen: 0.166 ppbv m
RT: 13.53 min Scan# 3340
Delta R.T. 0.00 min
Lab File: VL038266.D
Acq: 24 Jan 2022 19:11

Tgt Ion:104 Resp: 14377
Ion Ratio Lower Upper
104 100
78 0.0 44.2 66.4#
103 50.2 38.2 57.4



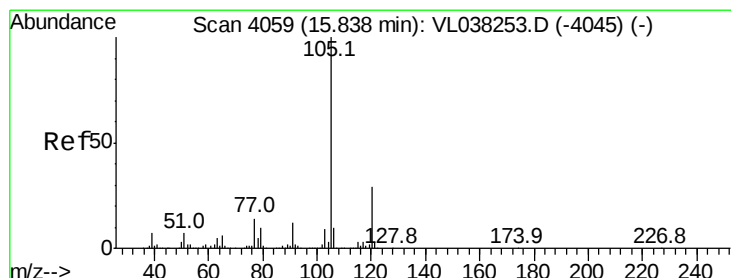
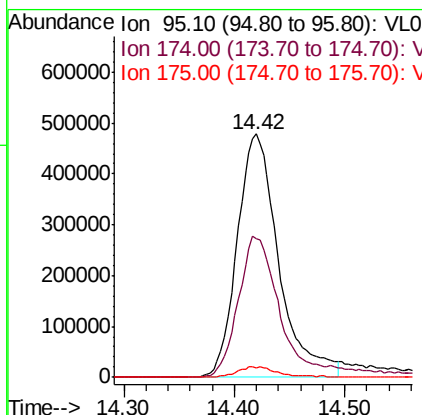
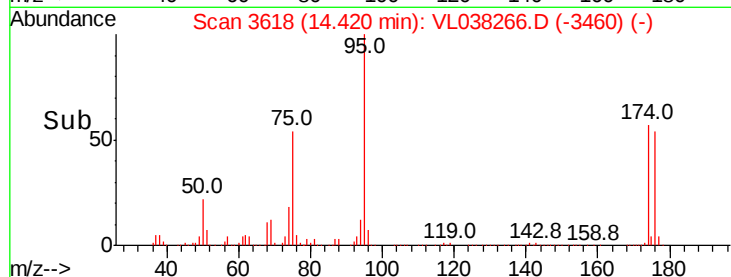
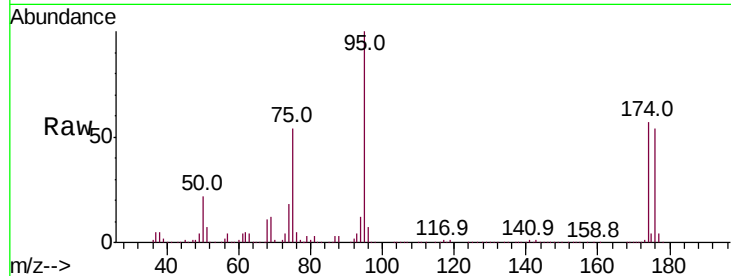


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.331 ppbv
 RT: 14.42
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 24 Jan 2022 19:11

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

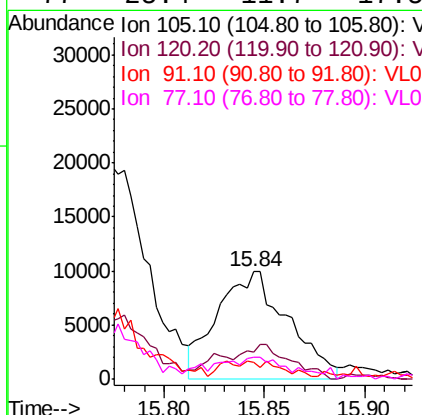
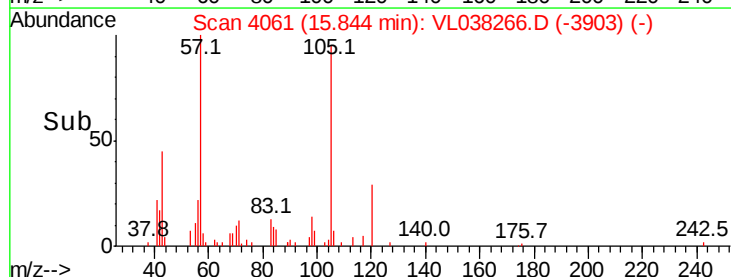
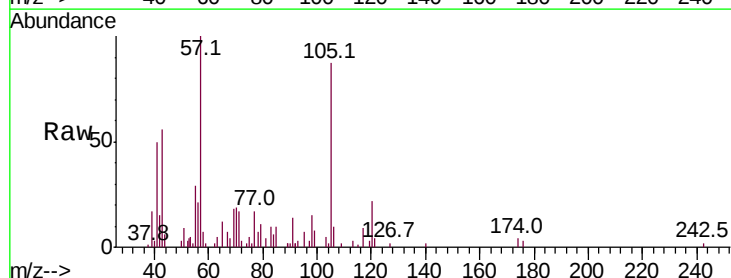
Manual Integrations
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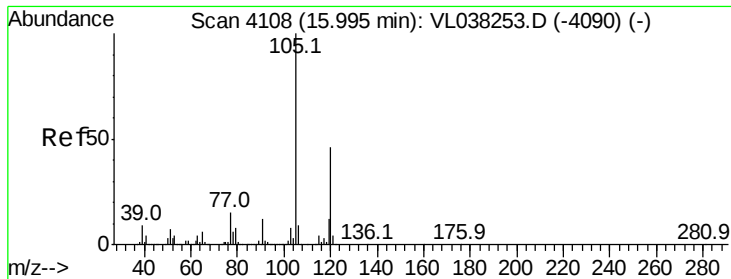
Reviewed By :Semsettin Yesilyurt 01/26/2022
 Supervised By :Mahesh Dadoda 01/26/2022



#72
 4-Ethyltoluene
 Concen: 0.124 ppbv m
 RT: 15.84 min Scan# 4061
 Delta R.T. 0.01 min
 Lab File: VL038266.D
 Acq: 24 Jan 2022 19:11

Tgt Ion:105 Resp: 24143
 Ion Ratio Lower Upper
 105 100
 120 32.3 23.8 35.8
 91 13.5 10.2 15.4
 77 25.4 11.7 17.5#





#73

1,3,5-Trimethylbenzene

Concen: 0.123 ppbv m

RT: 16.00

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Jan 2022 19:11

Tot Ion:1

Ion Rati

105 100

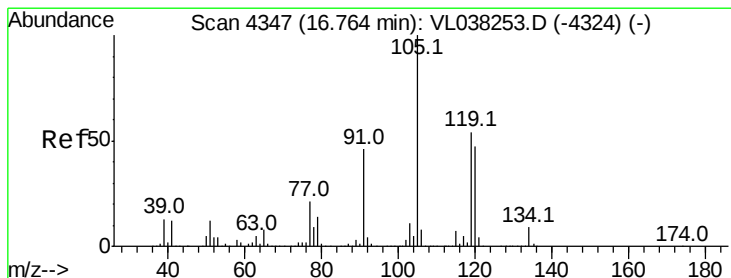
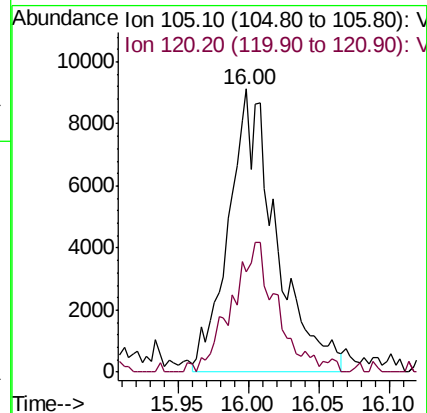
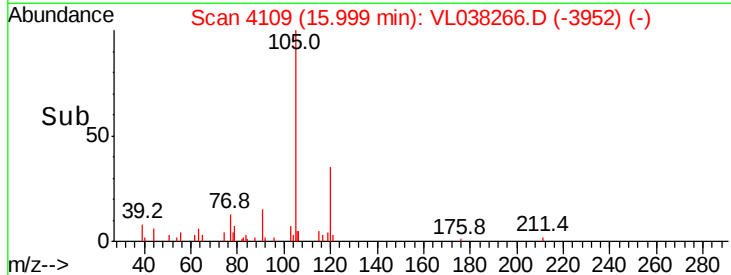
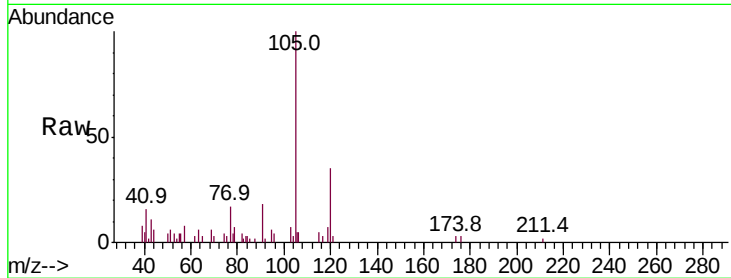
120 35.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/26/2022

Supervised By :Mahesh Dadoda 01/26/2022



#74

1,2,4-Trimethylbenzene

Concen: 0.350 ppbv m

RT: 16.77 min Scan# 4349

Delta R.T. 0.01 min

Lab File: VL038266.D

Acq: 24 Jan 2022 19:11

Tgt Ion:105 Resp: 64516

Ion Ratio Lower Upper

105 100

120 35.9 37.2 55.8#

91 11.1 36.6 55.0#

77 12.2 16.9 25.3#

