

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060722\
 Data File : VL039216.D
 Acq On : 7 Jun 2022 19:35
 Operator : SY/AP
 Sample : N3187-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 IA-2B

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 06/10/2022
 Supervised By : Mahesh Dadoda 06/10/2022

Quant Time: Jun 08 06:12:48 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL053122A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Wed Jun 01 01:22:18 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	915723	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2092221	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	1795550	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.41 95 1519424 10.24 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.40%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.05	85	50042	0.311	ppbv	91
3) Chlorodifluoromethane	2.99	51	1530422	13.135	ppbv	99
4) Chloromethane	3.14	50	33593	0.561	ppbv #	88
9) Propene	3.02	41	199043m	3.918	ppbv	
10) Heptane	8.12	43	44659m	0.377	ppbv	
11) Trichlorofluoromethane	3.95	101	45857	0.315	ppbv	87
13) Ethanol	3.61	45	13427361	4846.245	ppbv #	100
15) Acetone	3.85	43	916791	9.611	ppbv #	79
17) tert-Butyl alcohol	4.32	59	19052m	0.257	ppbv	
19) Isopropyl Alcohol	3.98	45	2023654	45.231	ppbv #	98
20) Methylene Chloride	4.35	84	889027	22.116	ppbv	94
26) Hexane	5.69	57	940073	9.950	ppbv #	49
29) Chloroform	5.75	83	19203m	0.121	ppbv	
30) Cyclohexane	7.14	84	26689m	0.336	ppbv	
34) 2-Butanone	5.24	43	107293m	0.944	ppbv	
35) Carbon Tetrachloride	7.02	117	12574m	0.082	ppbv	
36) Benzene	6.89	78	185111	1.090	ppbv	97
38) Trichloroethene	7.83	130	4651m	0.060	ppbv	
44) 2,2,4-Trimethylpentane	7.86	57	238955m	0.804	ppbv	
52) Tetrachloroethene	11.22	164	5675m	0.086	ppbv	
53) Toluene	9.80	91	469797	2.402	ppbv	99
58) Ethyl Benzene	12.71	91	89873m	0.363	ppbv	
59) m/p-Xylene	12.97	91	254205m	1.167	ppbv	
60) o-Xylene	13.69	91	94557	0.462	ppbv	98
61) Styrene	13.52	104	21965m	0.200	ppbv	
69) p-Isopropyltoluene	17.64	119	39190m	0.122	ppbv	
72) 4-Ethyltoluene	15.83	105	33791m	0.141	ppbv	
73) 1,3,5-Trimethylbenzene	16.00	105	27534m	0.127	ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	87649m	0.363	ppbv	

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

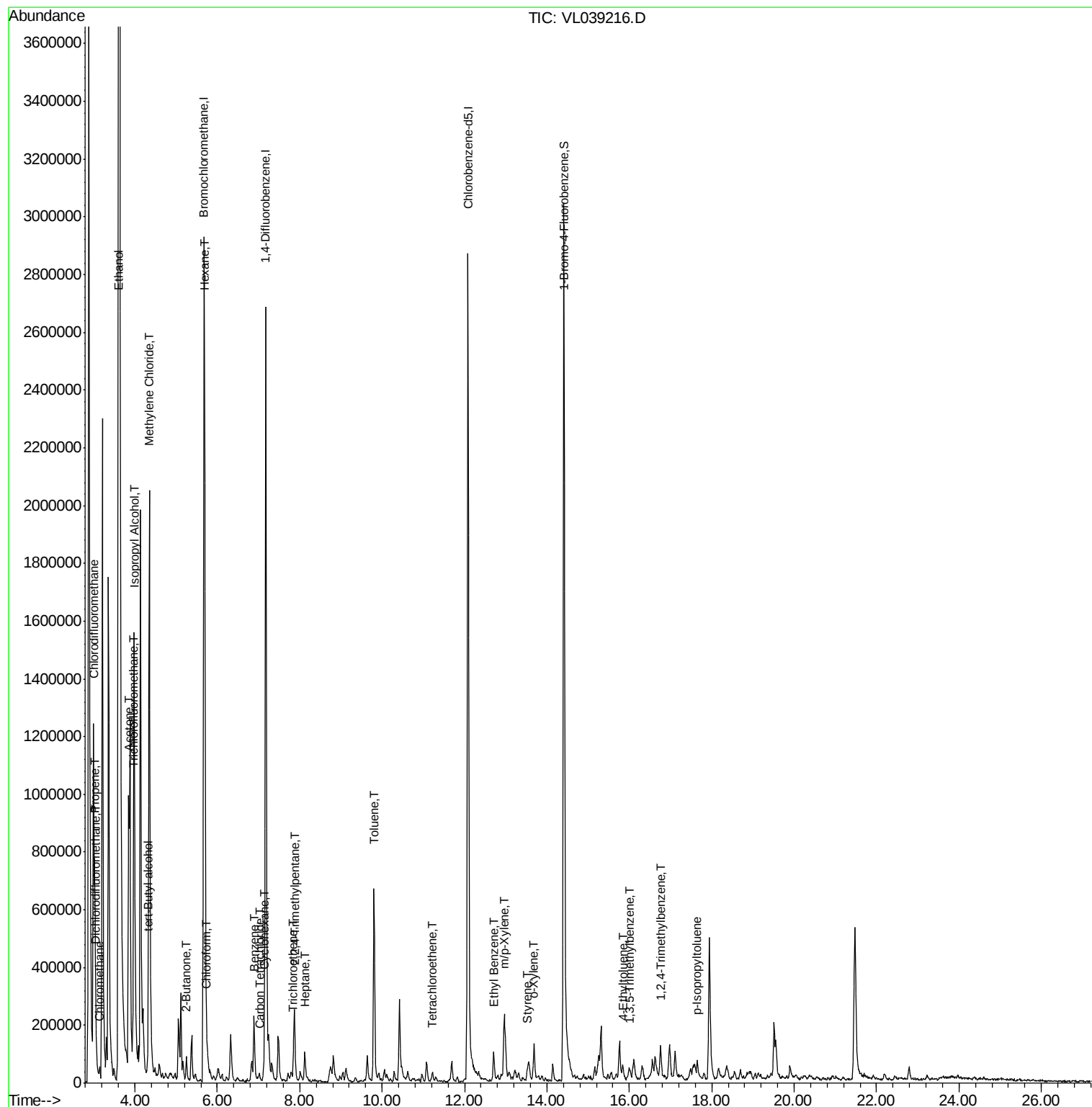
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL060722\
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Acq On : 7 Jun 2022 19:35
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ALS Vial : 1 Sample Multiplier: 1

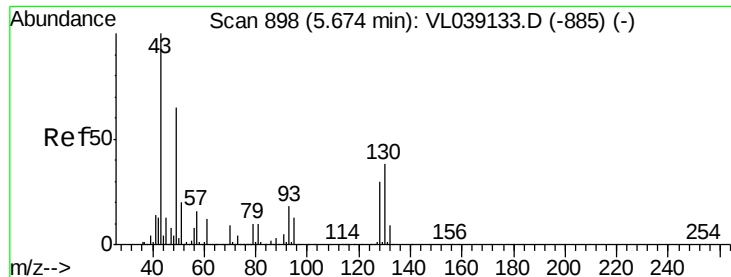
Instrument :
MSVOA_L
ClientSampleId :
IA-2B

Quant Time: Jun 08 06:12:48 2022
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL053122
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Wed Jun 01 01:22:18 2022
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/10/2022
Supervised By :Mahesh Dadoda 06/10/2022





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67

Delta R.T. MSVOA_L

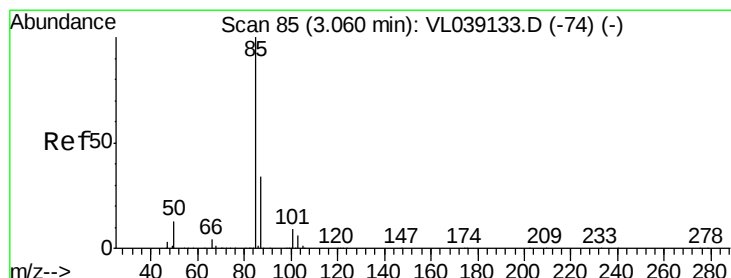
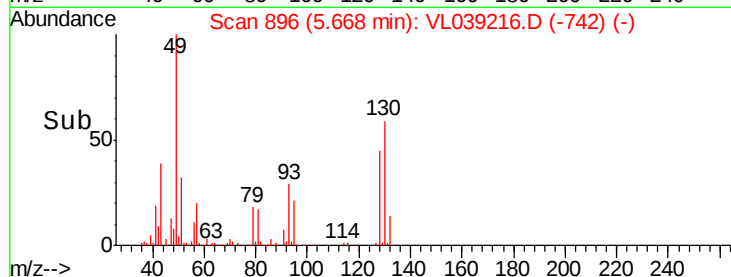
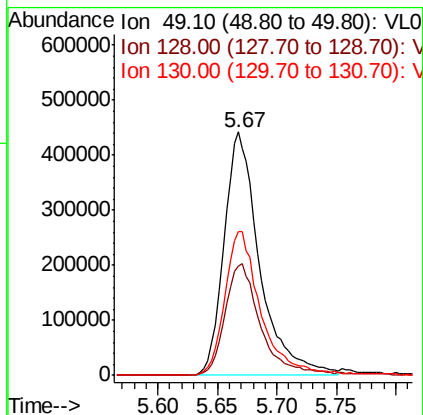
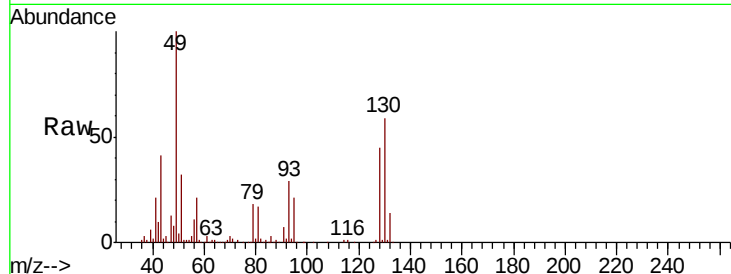
Lab File: ClientSampleId :

Acq: 7 Jun 2022 19:35

Tot Ion:
Ion Ratio
49 100
128 46.
130 60.

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 06/10/2022
Supervised By :Mahesh Dadoda 06/10/2022



#2

Dichlorodifluoromethane

Concen: 0.311 ppbv

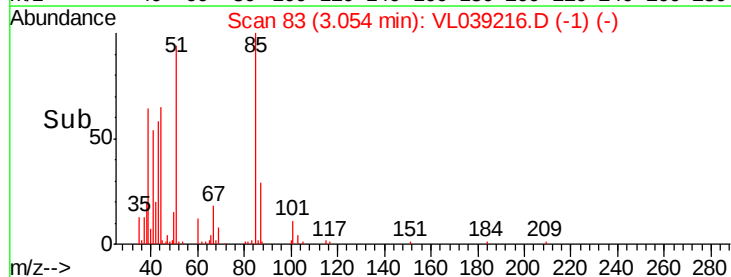
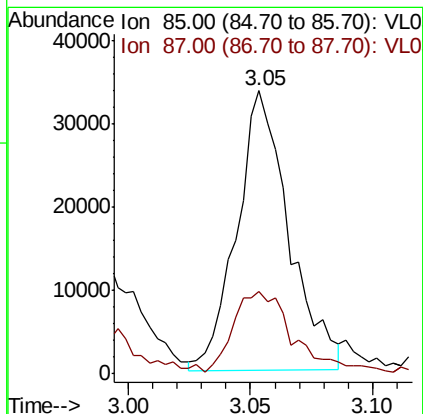
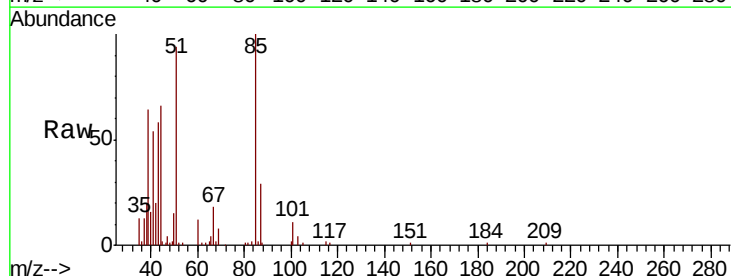
RT: 3.05 min Scan# 83

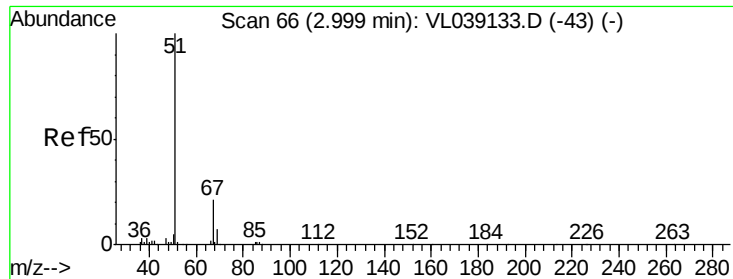
Delta R.T. -0.01 min

Lab File: VL039216.D

Acq: 7 Jun 2022 19:35

Tgt Ion: 85 Resp: 50042
Ion Ratio Lower Upper
85 100
87 28.5 26.9 40.3





#3

Chlorodifluoromethane

Concen: 13.135 ppbv

RT: 2.99 Instrument: MSVOA_L

Delta R.T. ClientSampleId:

Lab File: IA-2B

Acq: 7 Jun 2022 19:35

Tot Ion:

Ion Ratio

51 100

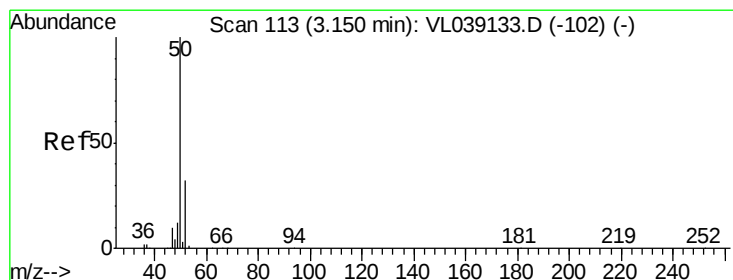
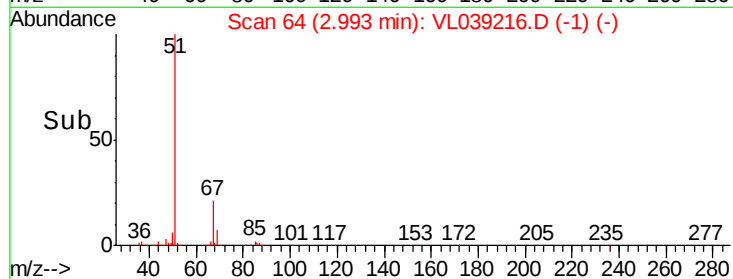
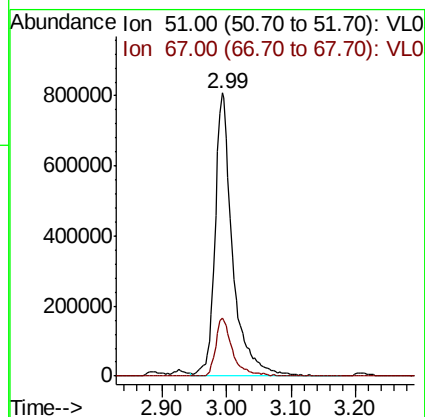
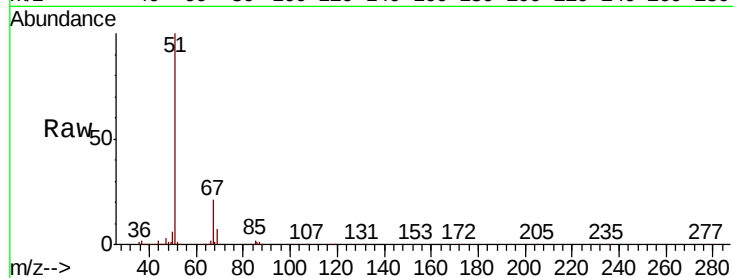
67 19.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/10/2022

Supervised By :Mahesh Dadoda 06/10/2022



#4

Chloromethane

Concen: 0.561 ppbv

RT: 3.14 min Scan# 111

Delta R.T. -0.01 min

Lab File: VL039216.D

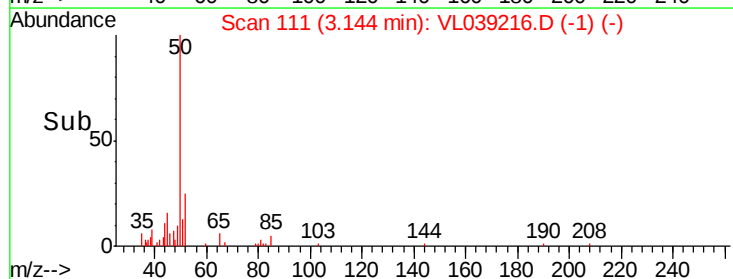
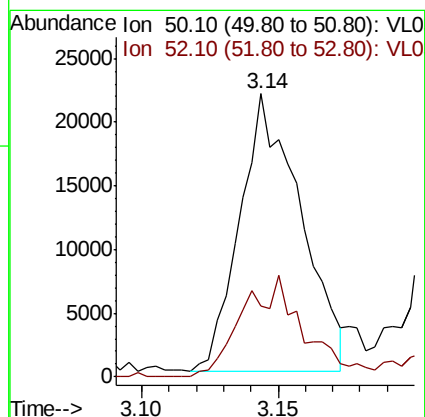
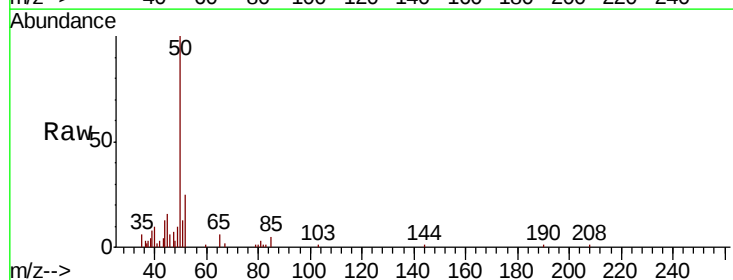
Acq: 7 Jun 2022 19:35

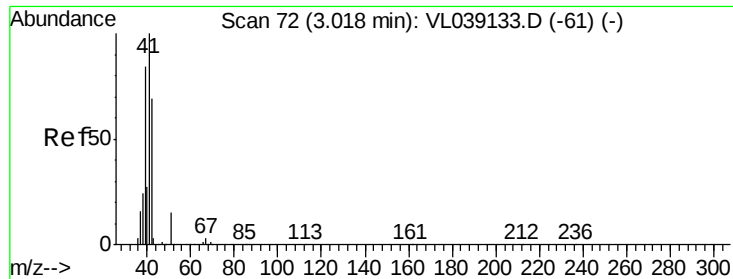
Tgt Ion: 50 Resp: 33593

Ion Ratio Lower Upper

50 100

52 25.6 25.9 38.9#



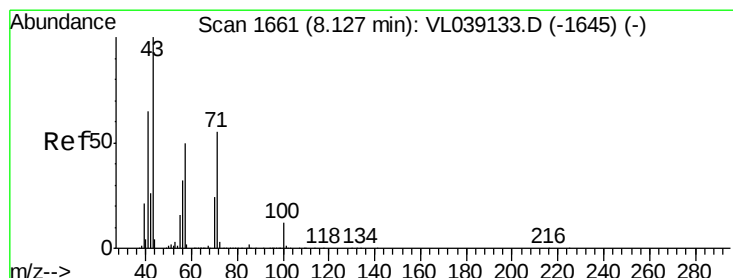
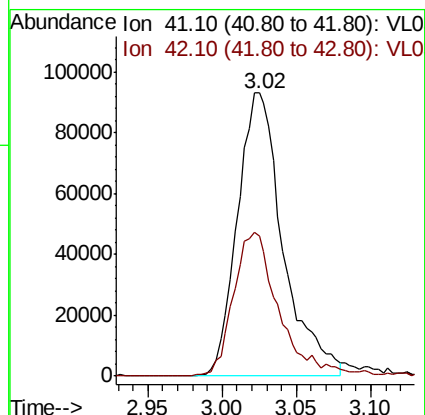
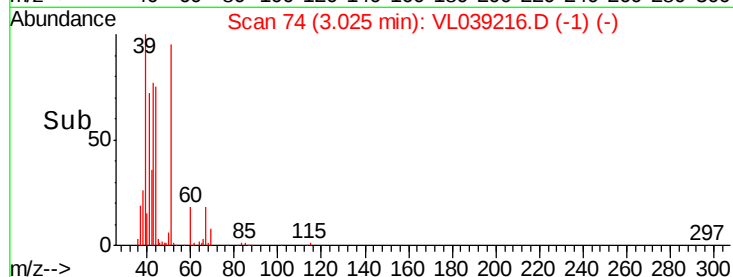
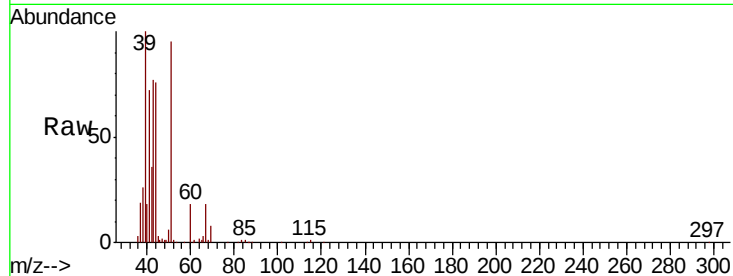


#9
 Propene
 Concen: 3.918 ppbv m
 RT: 3.02
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 7 Jun 2022 19:35

Tot Ion:
 Ion Ratio
 41 100
 42 279.

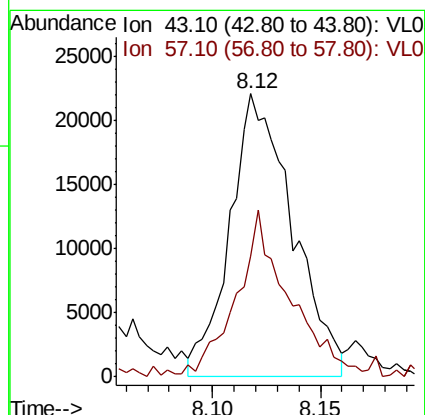
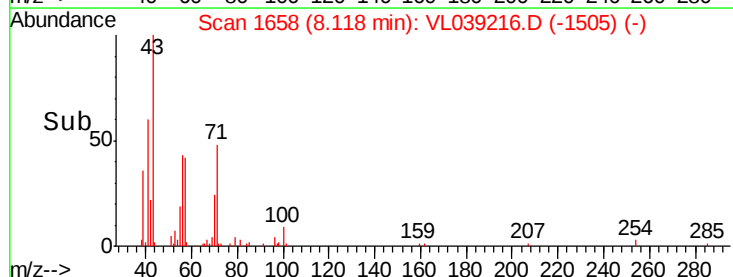
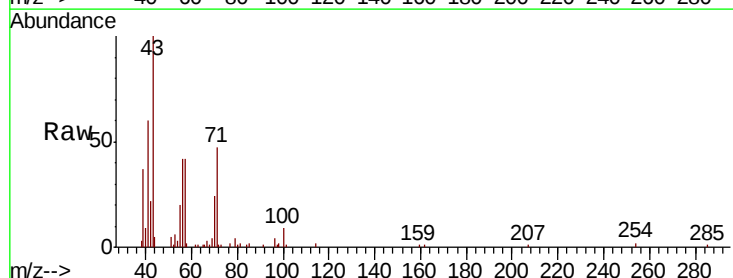
Manual Integrations
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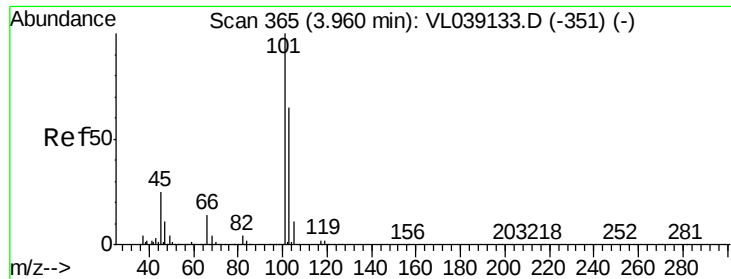
Reviewed By :Semsettin Yesilyurt 06/10/2022
 Supervised By :Mahesh Dadoda 06/10/2022



#10
 Heptane
 Concen: 0.377 ppbv m
 RT: 8.12 min Scan# 1658
 Delta R.T. -0.01 min
 Lab File: VL039216.D
 Acq: 7 Jun 2022 19:35

Tgt Ion: 43 Resp: 44659
 Ion Ratio Lower Upper
 43 100
 57 52.1 41.4 62.2



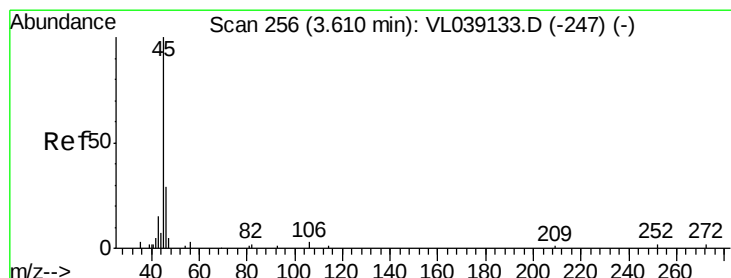
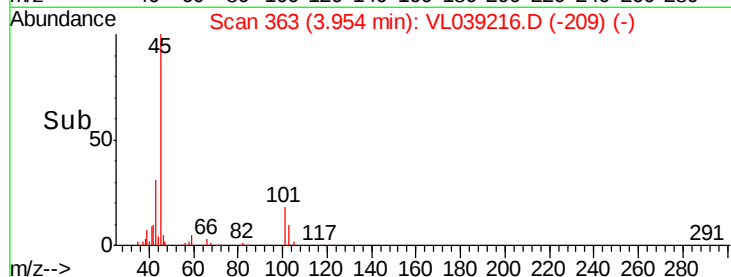
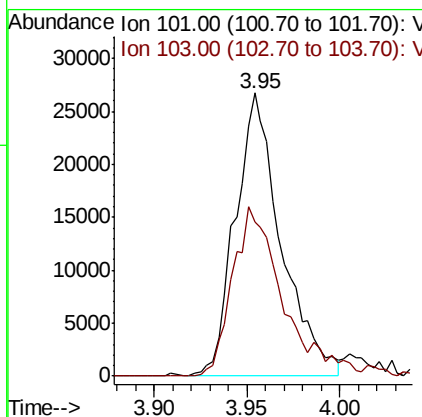
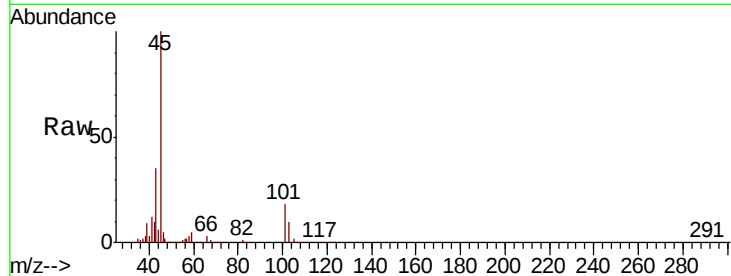


#11
 Trichlorofluoromethane
 Concen: 0.315 ppbv
 RT: 3.95
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 7 Jun 2022 19:35

Tot Ion:1
 Ion Rati
 101 100
 103 54.

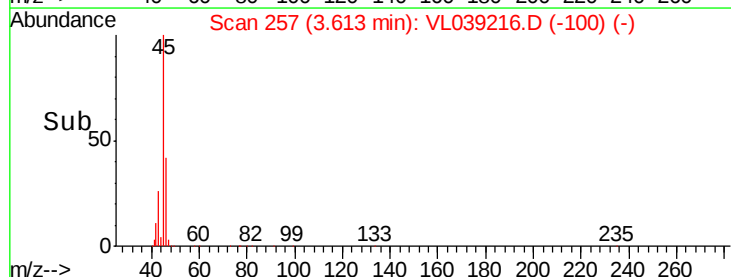
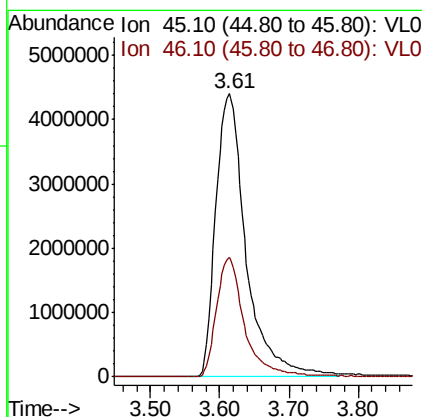
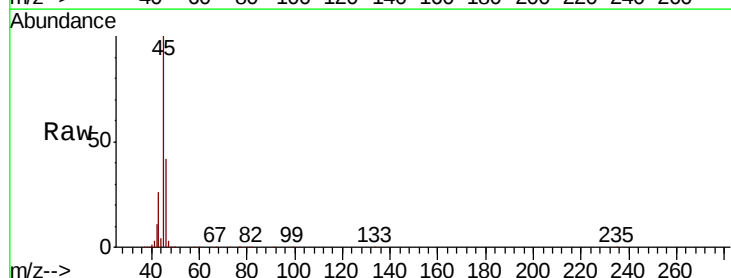
Manual Integrations
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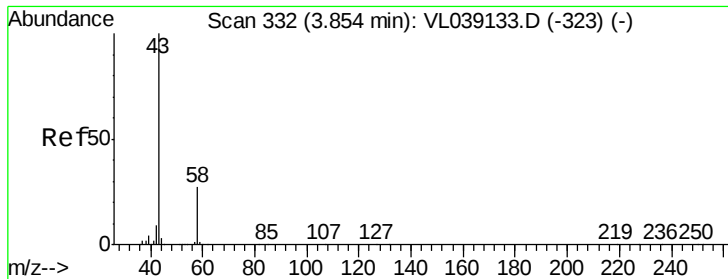
Reviewed By :Semsettin Yesilyurt 06/10/2022
 Supervised By :Mahesh Dadoda 06/10/2022



#13
 Ethanol
 Concen: 4846.245 ppbv
 RT: 3.61 min Scan# 257
 Delta R.T. 0.00 min
 Lab File: VL039216.D
 Acq: 7 Jun 2022 19:35

Tgt Ion: 45 Resp:13427361
 Ion Ratio Lower Upper
 45 100
 46 39.6 0.0 0.0#



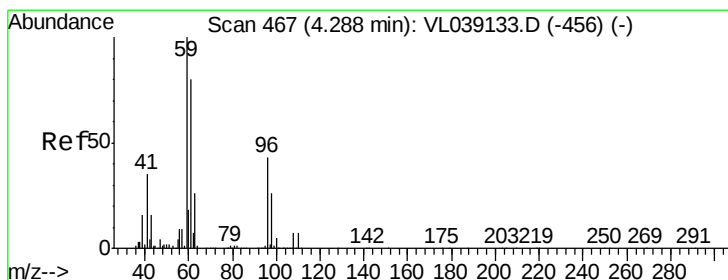
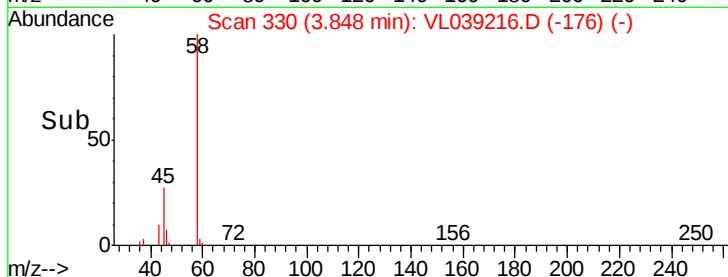
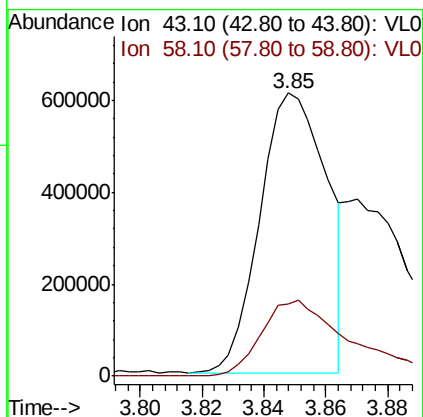
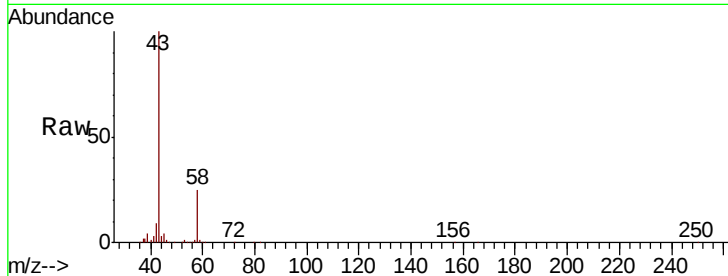


#15
Acetone
Concen: 9.611 ppbv
RT: 3.85
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Jun 2022 19:35

Tot Ion:
Ion Ratio
43 100
58 38.

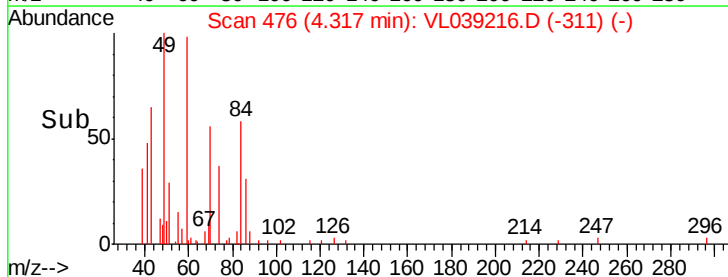
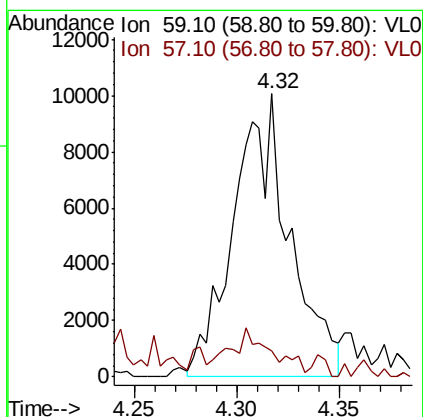
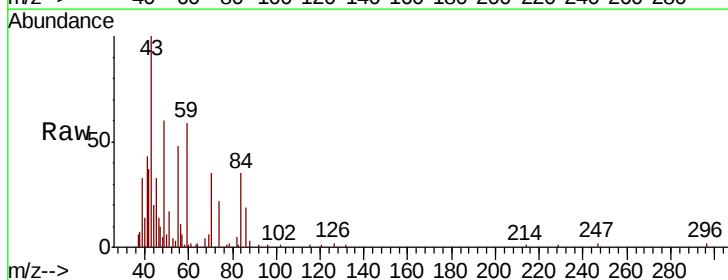
Manual Integrations
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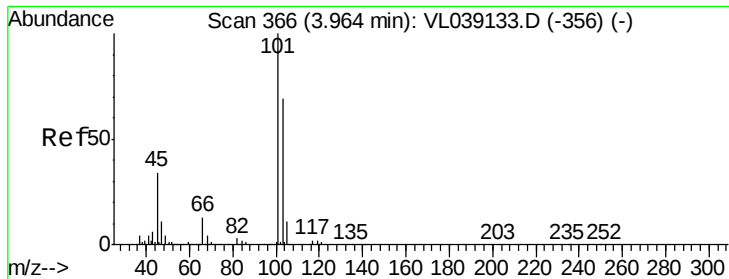
Reviewed By :Semsettin Yesilyurt 06/10/2022
Supervised By :Mahesh Dadoda 06/10/2022



#17
tert-Butyl alcohol
Concen: 0.257 ppbv m
RT: 4.32 min Scan# 476
Delta R.T. 0.03 min
Lab File: VL039216.D
Acq: 7 Jun 2022 19:35

Tgt Ion: 59 Resp: 19052
Ion Ratio Lower Upper
59 100
57 0.0 9.1 13.7#





#19

Isopropyl Alcohol

Concen: 45.231 ppbv

RT: 3.98

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Jun 2022 19:35

Tot Ion:

Ion Ratio

45 100

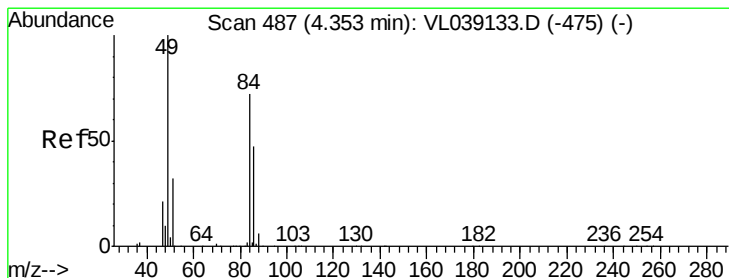
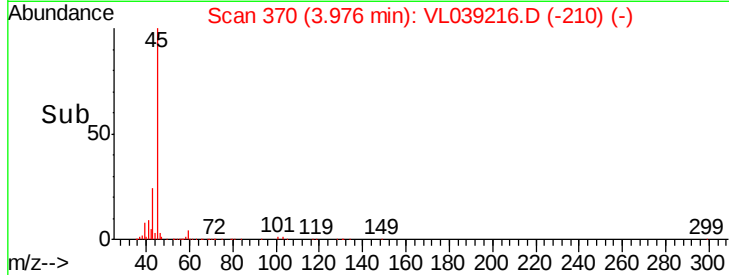
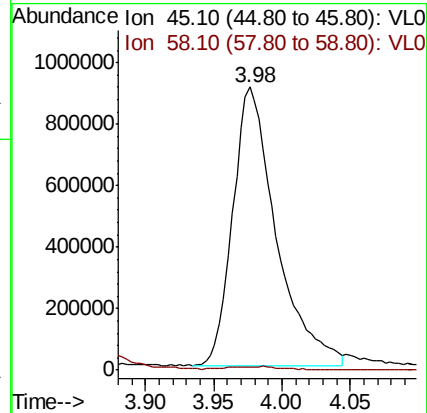
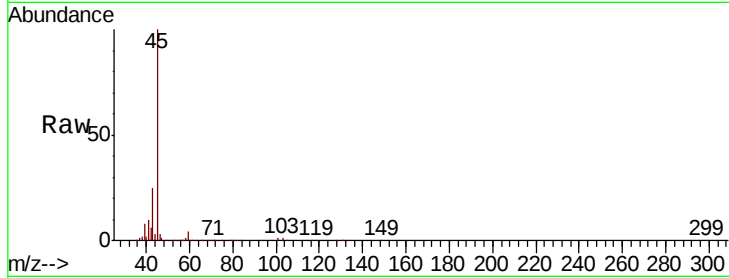
58 1.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/10/2022

Supervised By :Mahesh Dadoda 06/10/2022



#20

Methylene Chloride

Concen: 22.116 ppbv

RT: 4.35 min Scan# 485

Delta R.T. -0.01 min

Lab File: VL039216.D

Acq: 7 Jun 2022 19:35

Tgt Ion: 84 Resp: 889027

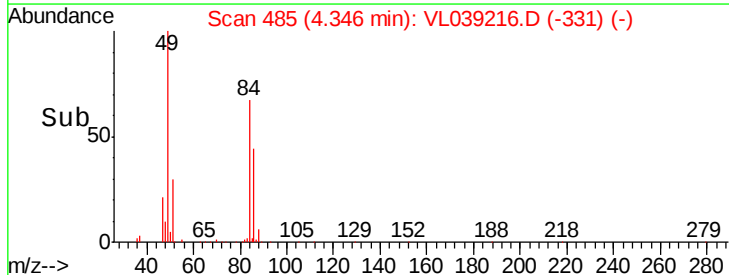
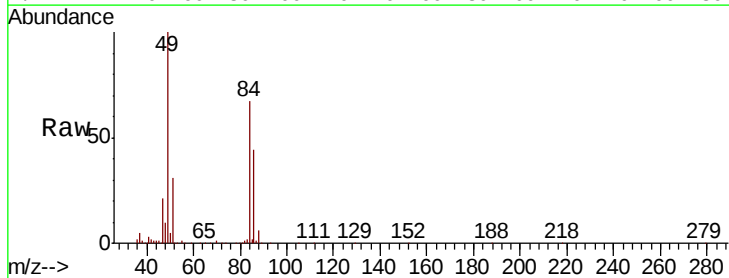
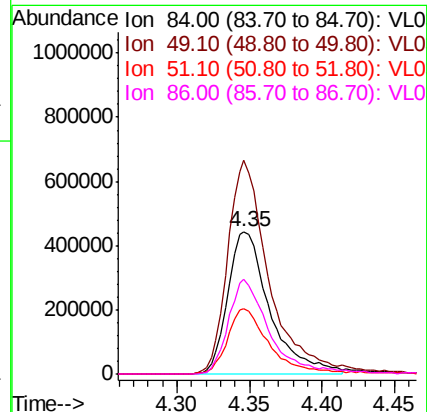
Ion Ratio Lower Upper

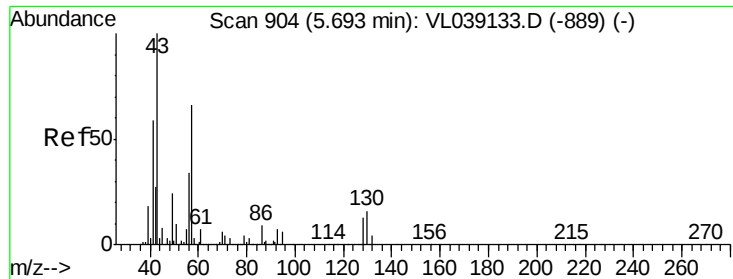
84 100

49 150.0 111.1 166.7

51 45.5 35.3 52.9

86 66.5 51.9 77.9

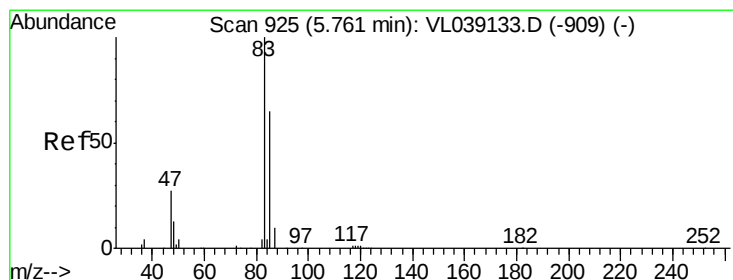
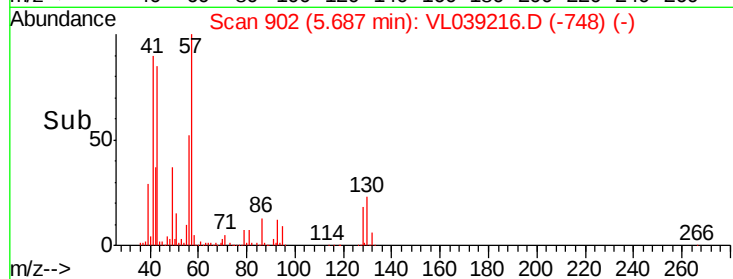
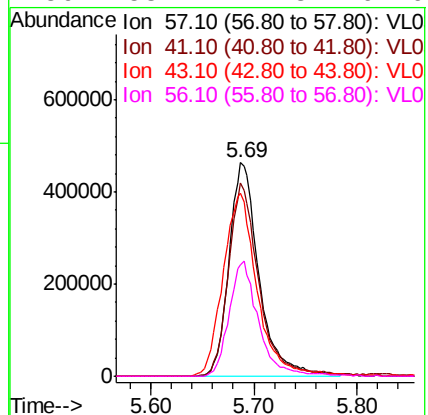
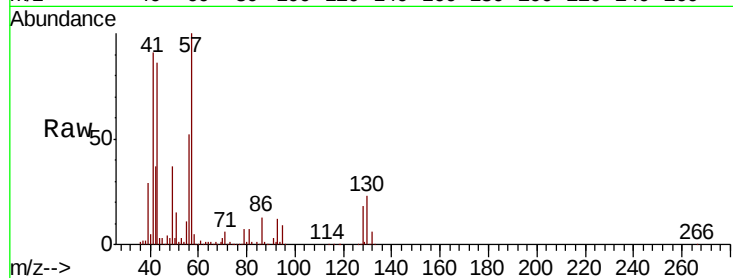




#26
Hexane
Concen: 9.950 ppbv
RT: 5.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Jun 2022 19:35

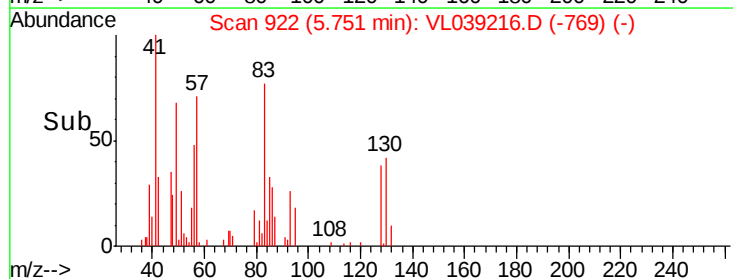
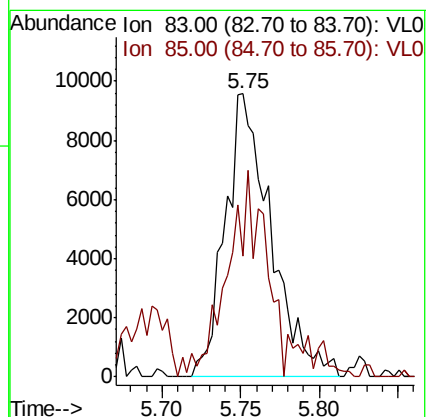
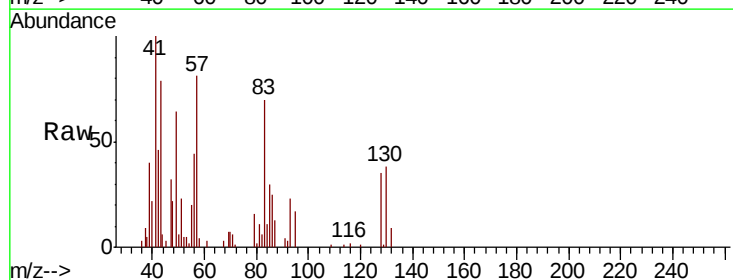
Tot Ion: Manual Integrations
Ion Ratio APPROVED
57 100
41 92.
43 97.
56 53.1 41.8 62.6

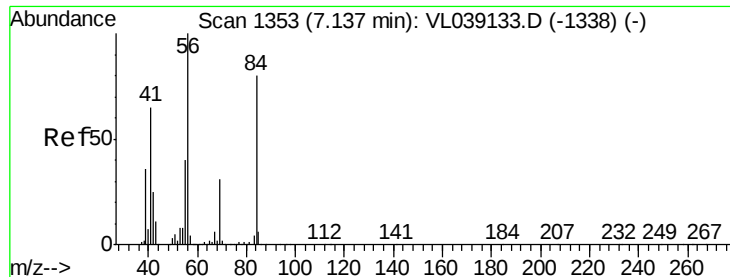
Reviewed By :Semsettin Yesilyurt 06/10/2022
Supervised By :Mahesh Dadoda 06/10/2022



#29
Chloroform
Concen: 0.121 ppbv m
RT: 5.75 min Scan# 922
Delta R.T. -0.01 min
Lab File: VL039216.D
Acq: 7 Jun 2022 19:35

Tgt Ion: 83 Resp: 19203
Ion Ratio Lower Upper
83 100
85 42.8 52.4 78.6#



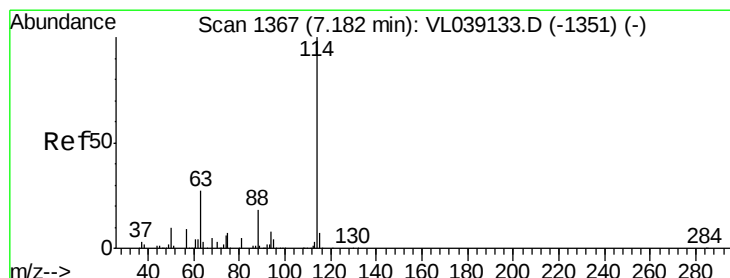
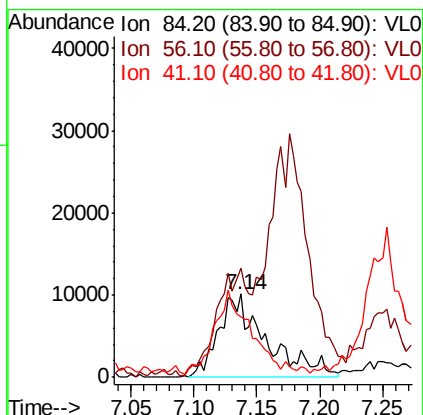
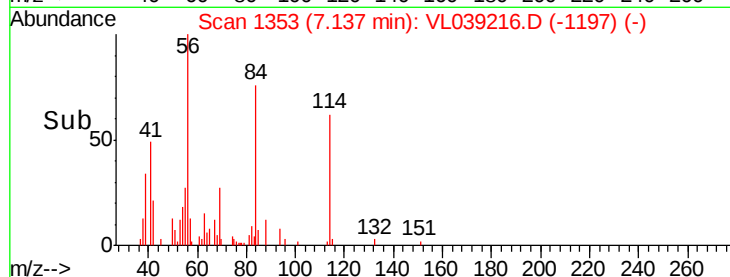
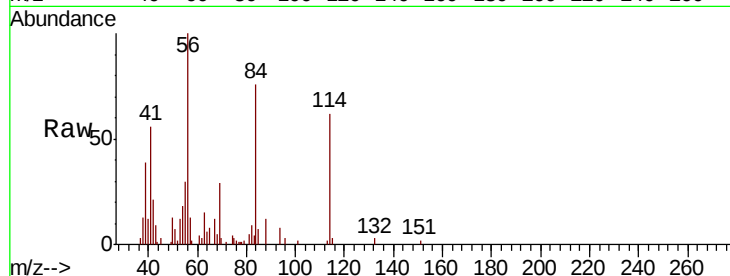


#30
Cyclohexane
Concen: 0.336 ppbv m
RT: 7.14
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
Acq: 7 Jun 2022 19:35

Tot Ion:
Ion Ratio
84 100
56 0.
41 79.

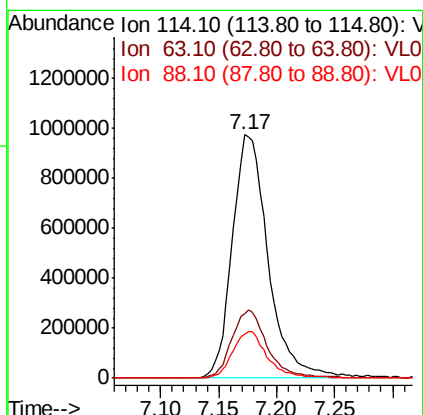
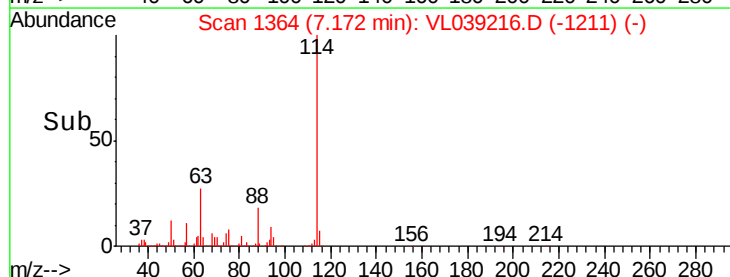
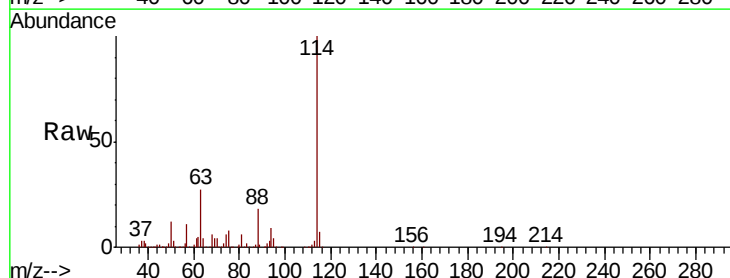
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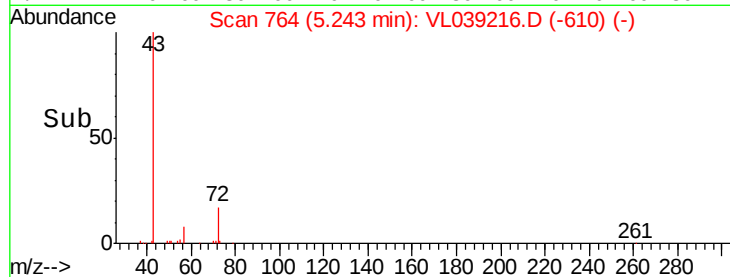
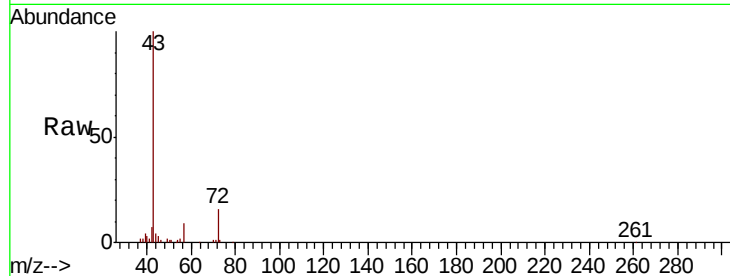
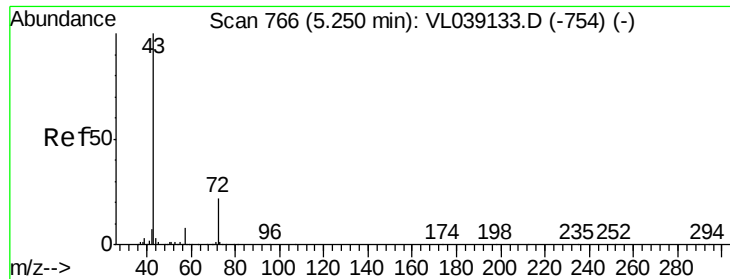
Reviewed By :Semsettin Yesilyurt 06/10/2022
Supervised By :Mahesh Dadoda 06/10/2022



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.01 min
Lab File: VL039216.D
Acq: 7 Jun 2022 19:35

Tgt Ion:114 Resp: 2092221
Ion Ratio Lower Upper
114 100
63 28.1 21.7 32.5
88 18.8 14.8 22.2



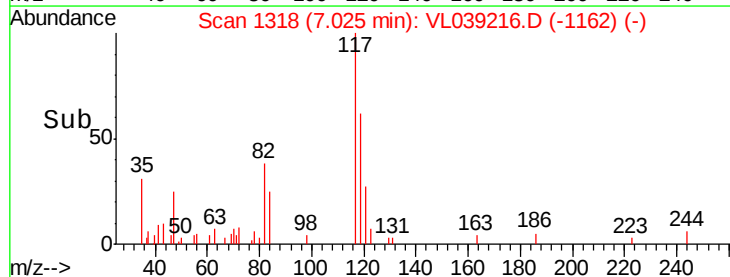
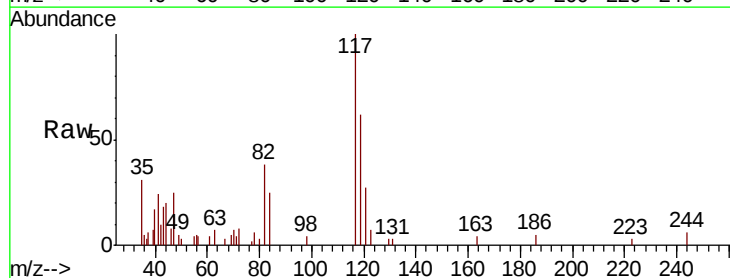
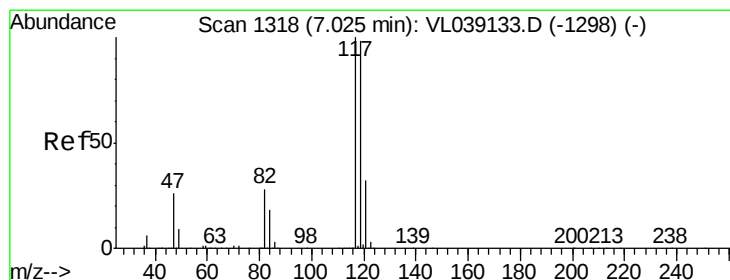
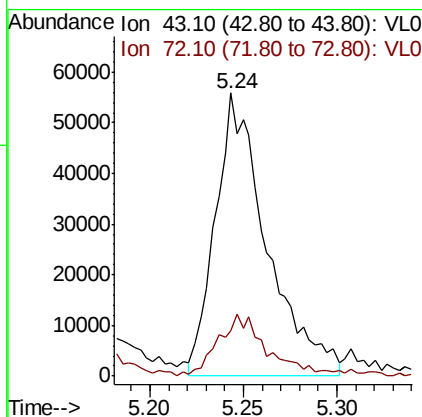


#34
2-Butanone
Concen: 0.944 ppbv m
RT: 5.24
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Jun 2022 19:35

Tot Ion:
Ion Ratio
43 100
72 22.

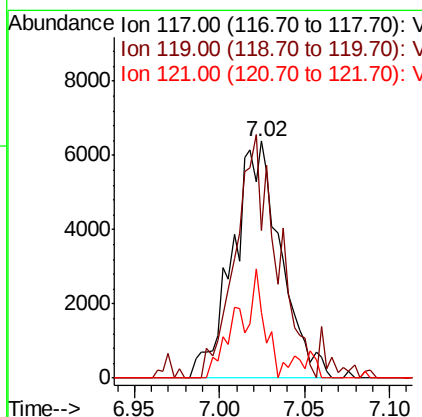
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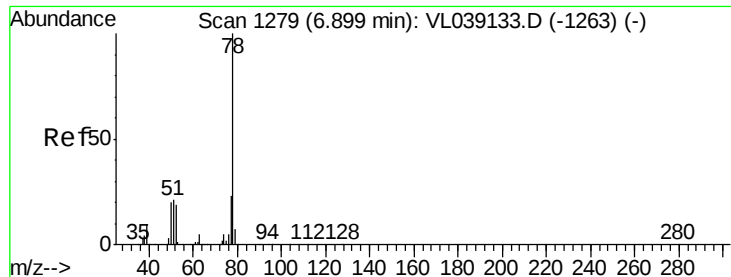
Reviewed By :Semsettin Yesilyurt 06/10/2022
Supervised By :Mahesh Dadoda 06/10/2022



#35
Carbon Tetrachloride
Concen: 0.082 ppbv m
RT: 7.02 min Scan# 1318
Delta R.T. 0.00 min
Lab File: VL039216.D
Acq: 7 Jun 2022 19:35

Tgt Ion:117 Resp: 12574
Ion Ratio Lower Upper
117 100
119 62.1 78.6 118.0#
121 27.5 25.4 38.0



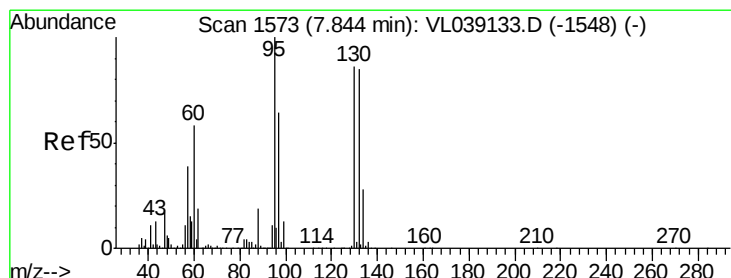
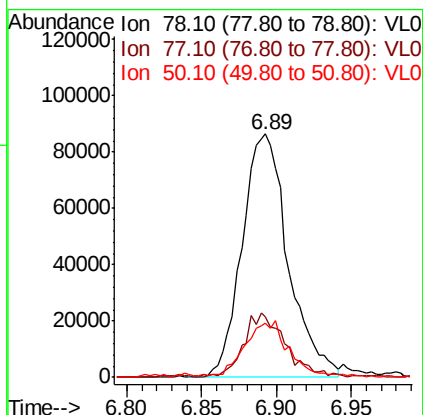
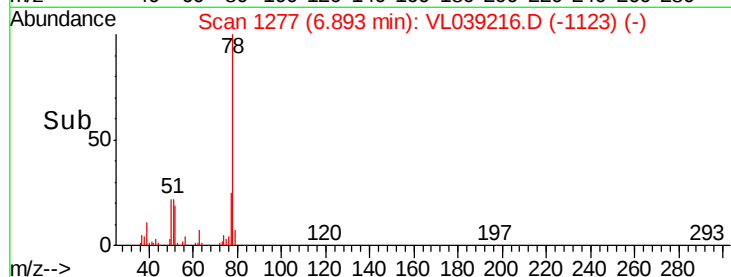
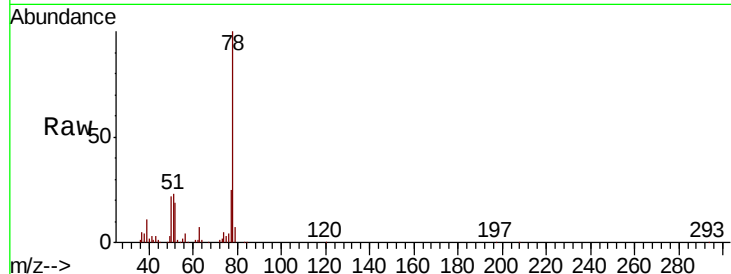


#36
Benzene
Concen: 1.090 ppbv
RT: 6.89
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Jun 2022 19:35

Tot Ion:
Ion Ratio
78 100
77 24.
50 21.

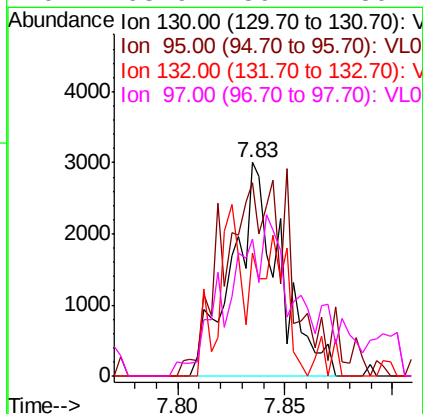
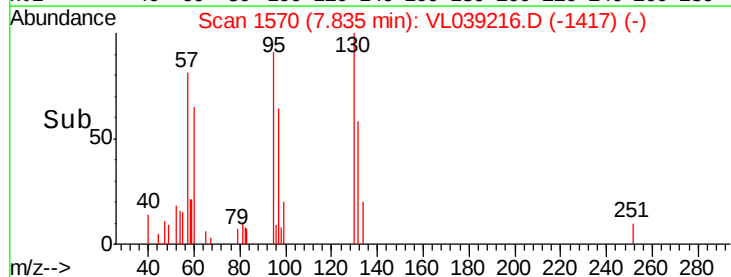
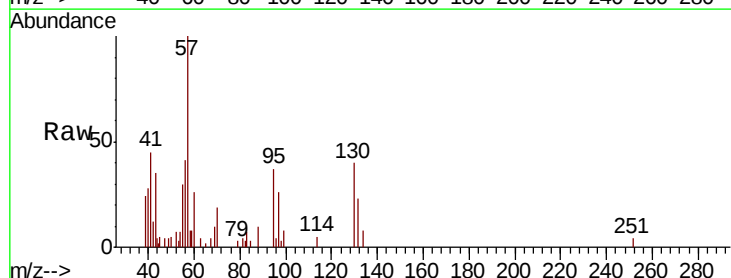
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APPROVED

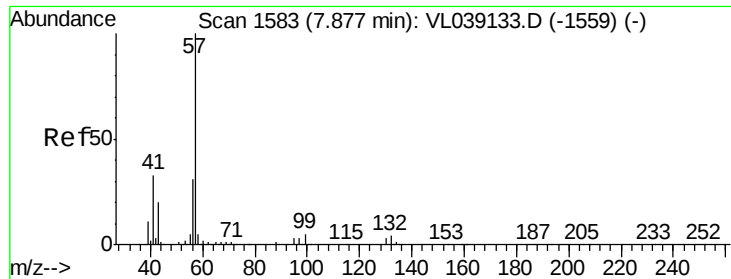
Reviewed By :Semsettin Yesilyurt 06/10/2022
Supervised By :Mahesh Dadoda 06/10/2022



#38
Trichloroethene
Concen: 0.060 ppbv m
RT: 7.83 min Scan# 1570
Delta R.T. -0.01 min
Lab File: VL039216.D
Acq: 7 Jun 2022 19:35

Tgt Ion:130 Resp: 4651
Ion Ratio Lower Upper
130 100
95 90.6 93.3 139.9#
132 57.8 79.0 118.4#
97 63.9 59.4 89.2



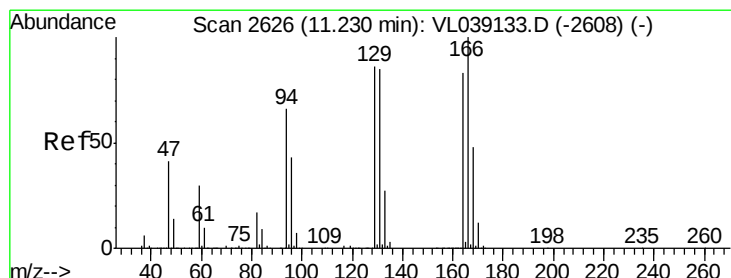
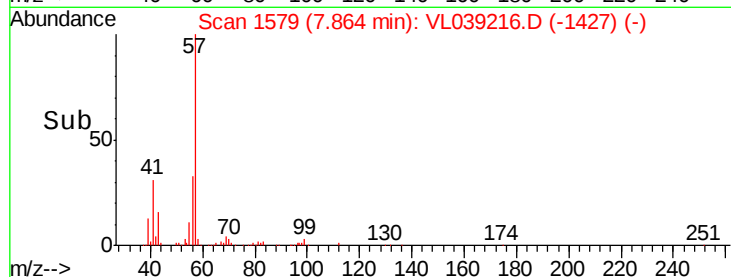
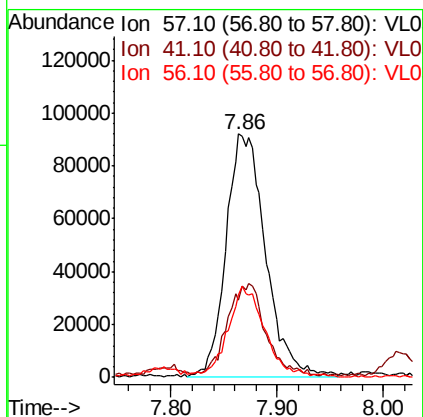
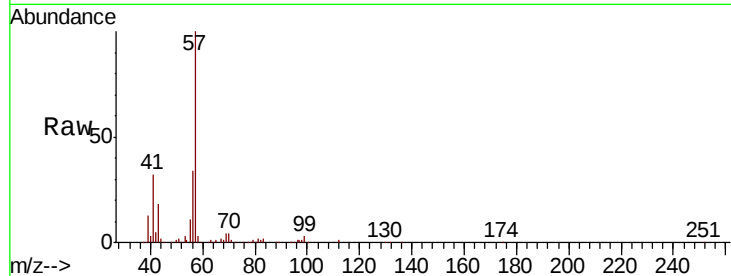


#44
 2,2,4-Trimethylpentane
 Concen: 0.804 ppbv m
 RT: 7.86
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 7 Jun 2022 19:35

Tot Ion:
 Ion Ratio
 57 100
 41 0.
 56 35.

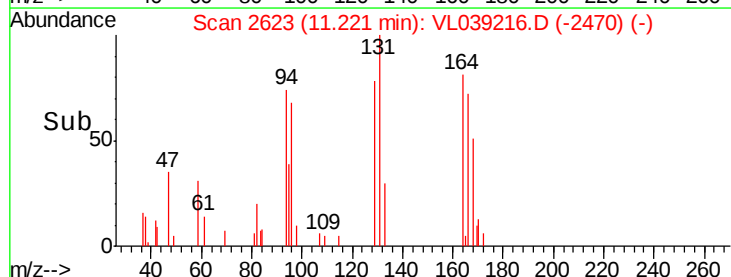
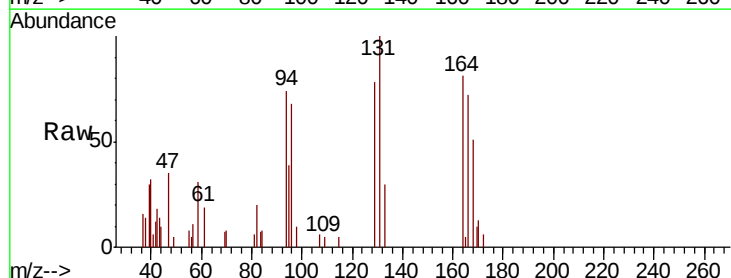
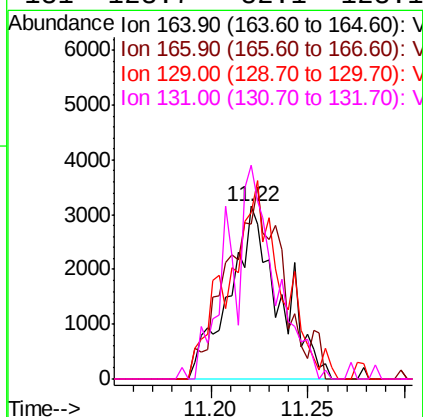
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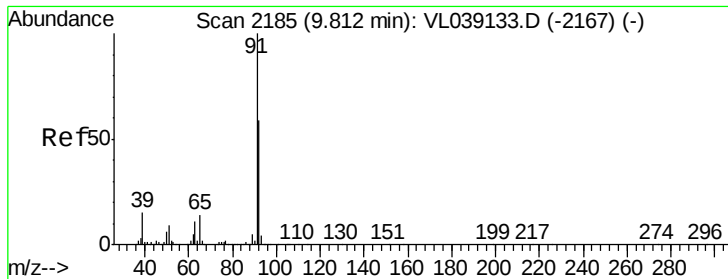
Reviewed By :Semsettin Yesilyurt 06/10/2022
 Supervised By :Mahesh Dadoda 06/10/2022



#52
 Tetrachloroethene
 Concen: 0.086 ppbv m
 RT: 11.22 min Scan# 2623
 Delta R.T. -0.01 min
 Lab File: VL039216.D
 Acq: 7 Jun 2022 19:35

Tgt Ion:164 Resp: 5675
 Ion Ratio Lower Upper
 164 100
 166 89.5 96.3 144.5#
 129 96.6 82.5 123.7
 131 123.7 82.1 123.1#





#53

Toluene

Concen: 2.402 ppbv

RT: 9.80 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Jun 2022 19:35

Tot Ion:

Ion Ratio

91 100

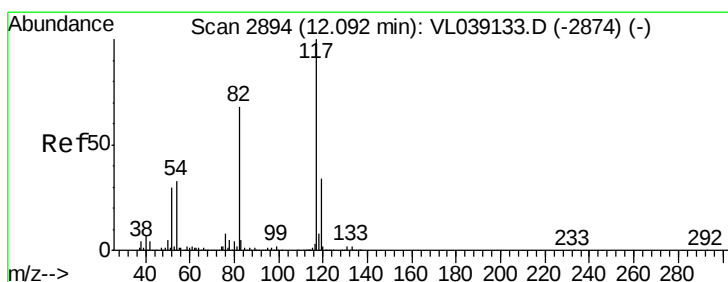
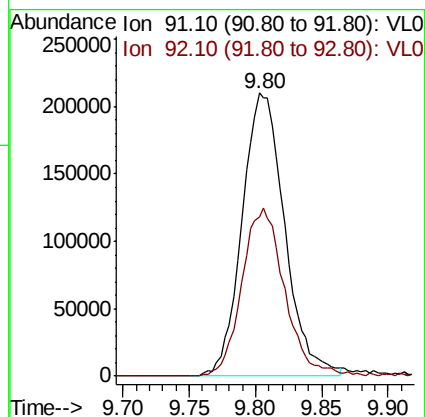
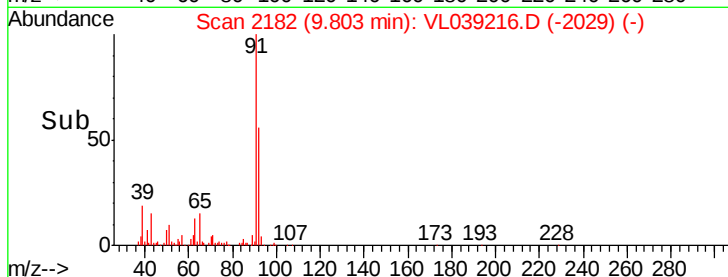
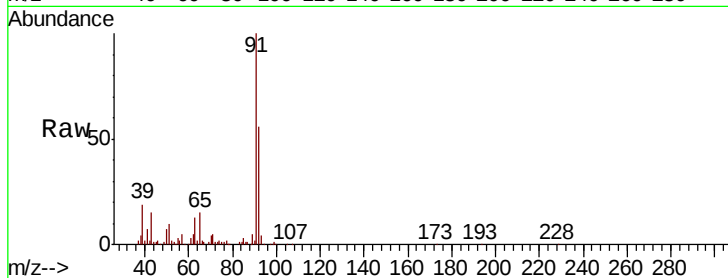
92 59.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/10/2022

Supervised By :Mahesh Dadoda 06/10/2022



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL039216.D

Acq: 7 Jun 2022 19:35

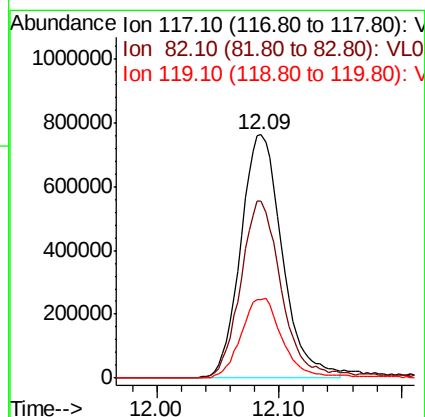
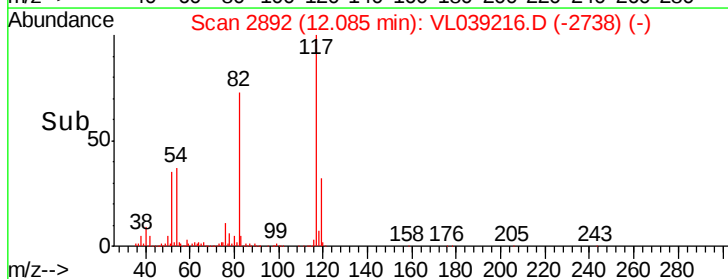
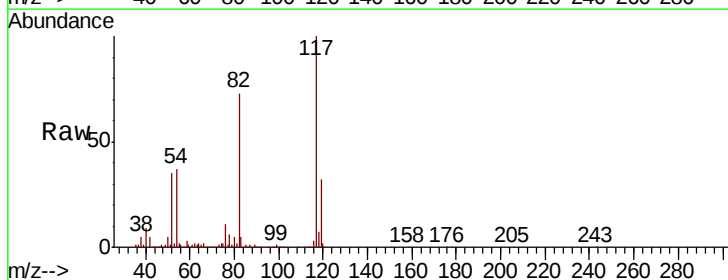
Tgt Ion:117 Resp: 1795550

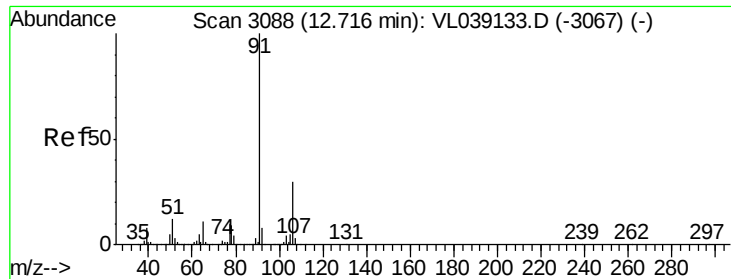
Ion Ratio Lower Upper

117 100

82 73.7 55.1 82.7

119 33.0 24.7 37.1





#58

Ethyl Benzene

Concen: 0.363 ppbv m

RT: 12.71 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Jun 2022 19:35

Tot Ion:

Ion Ratio

91 100

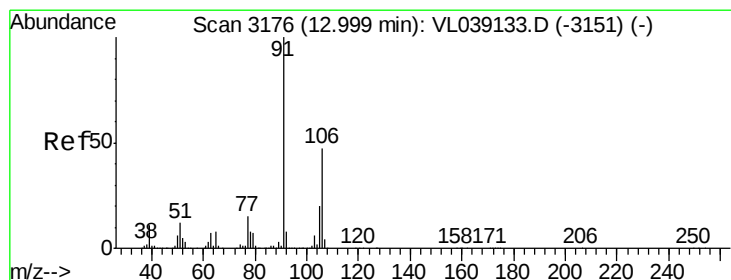
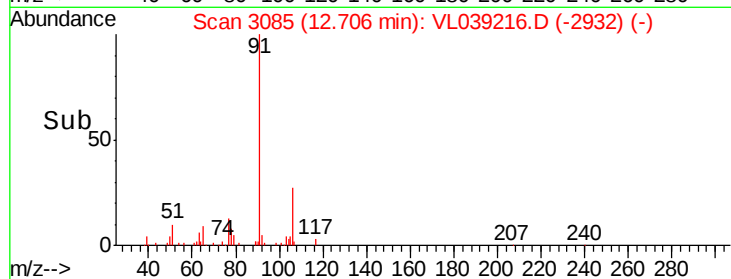
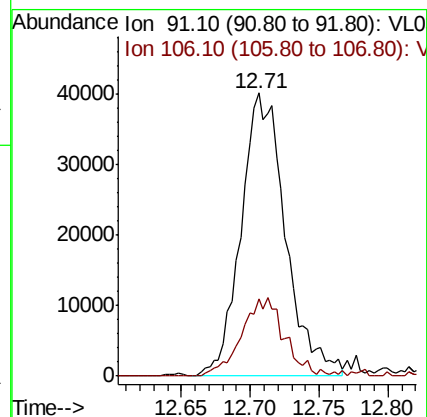
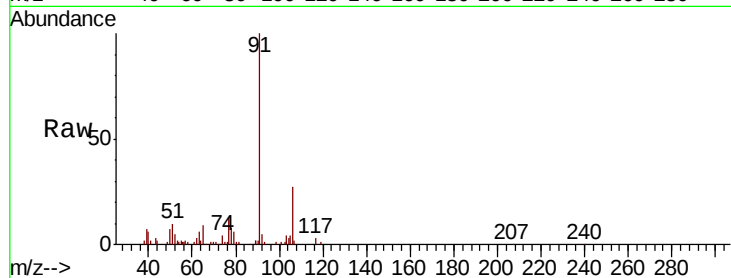
106 27.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/10/2022

Supervised By :Mahesh Dadoda 06/10/2022



#59

m/p-Xylene

Concen: 1.167 ppbv m

RT: 12.97 min Scan# 3166

Delta R.T. -0.03 min

Lab File: VL039216.D

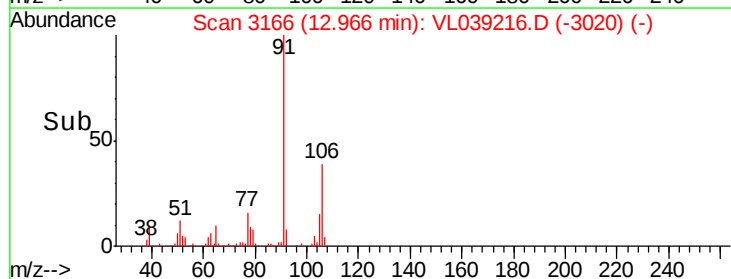
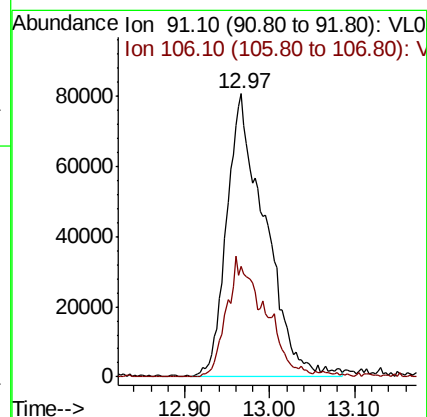
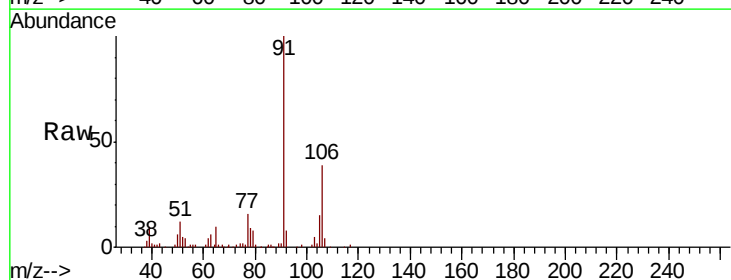
Acq: 7 Jun 2022 19:35

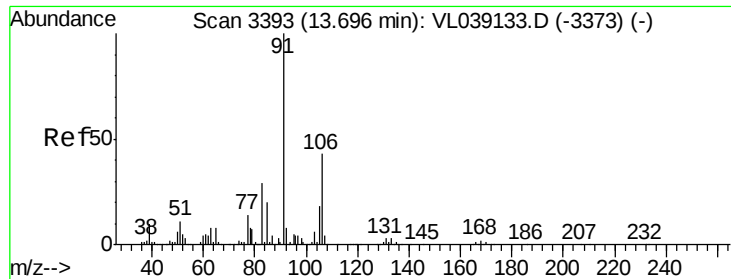
Tgt Ion: 91 Resp: 254205

Ion Ratio Lower Upper

91 100

106 0.0 34.3 51.5#



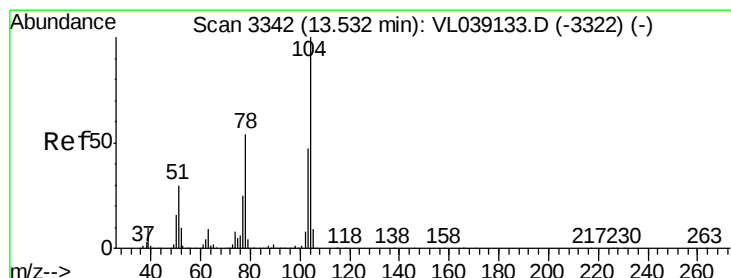
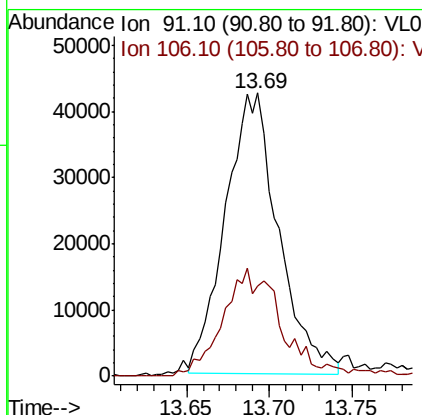
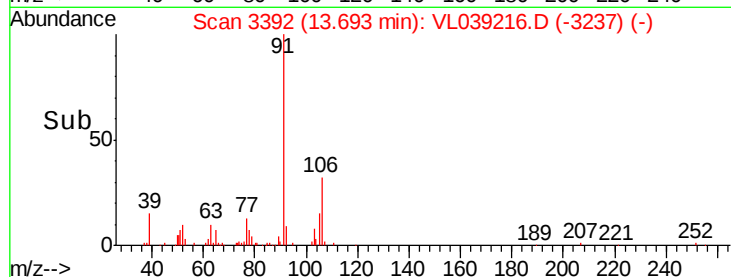
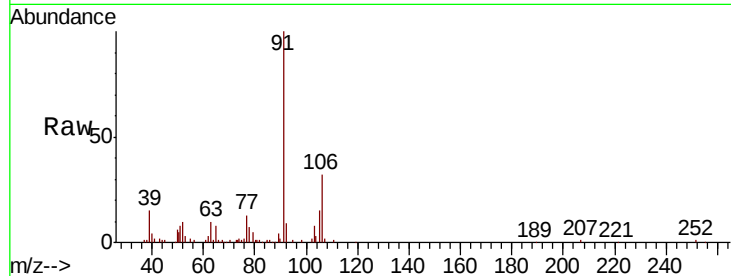


#60
o-Xylene
Concen: 0.462 ppbv
RT: 13.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Jun 2022 19:35

Tot Ion:
Ion Ratio
91 100
106 43.

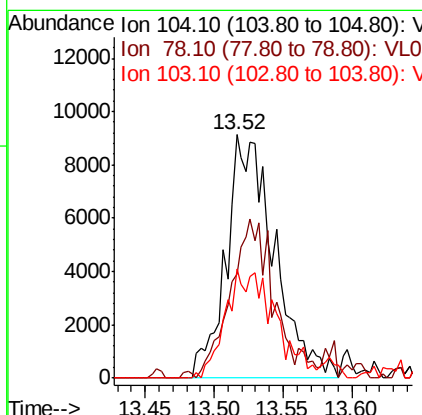
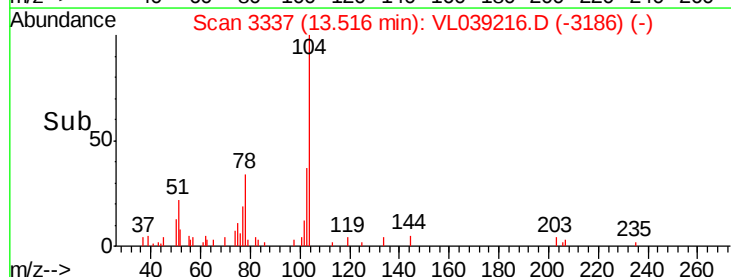
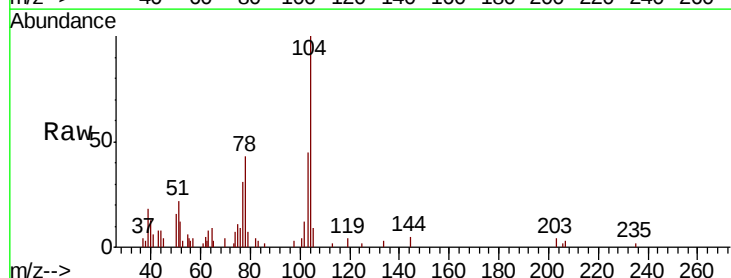
Manual Integrations
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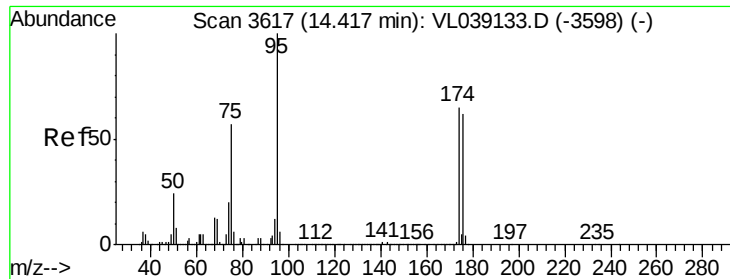
Reviewed By :Semsettin Yesilyurt 06/10/2022
Supervised By :Mahesh Dadoda 06/10/2022



#61
Styrene
Concen: 0.200 ppbv m
RT: 13.52 min Scan# 3337
Delta R.T. -0.02 min
Lab File: VL039216.D
Acq: 7 Jun 2022 19:35

Tgt Ion:104 Resp: 21965
Ion Ratio Lower Upper
104 100
78 66.2 45.7 68.5
103 0.0 39.6 59.4#



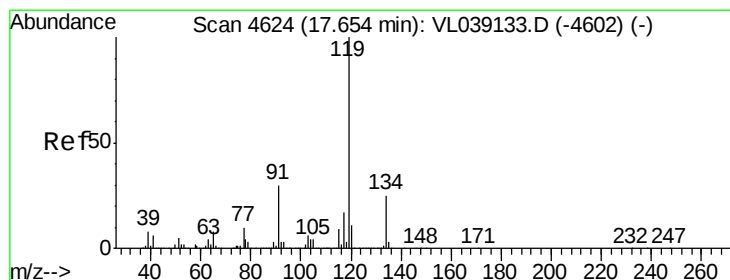
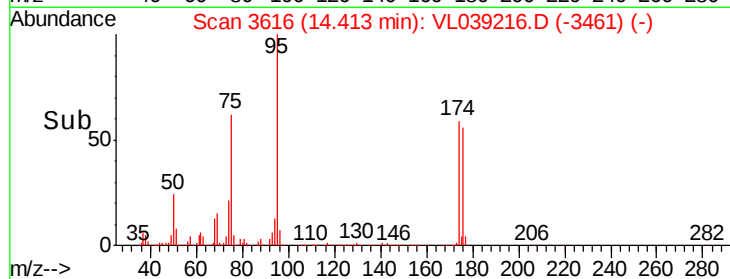
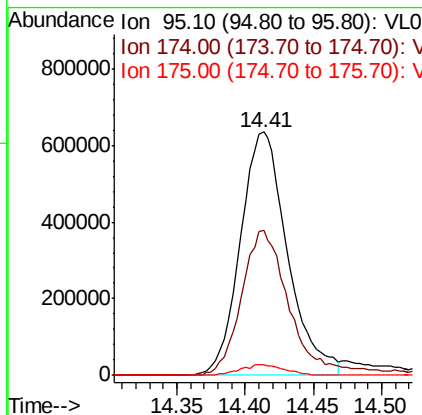
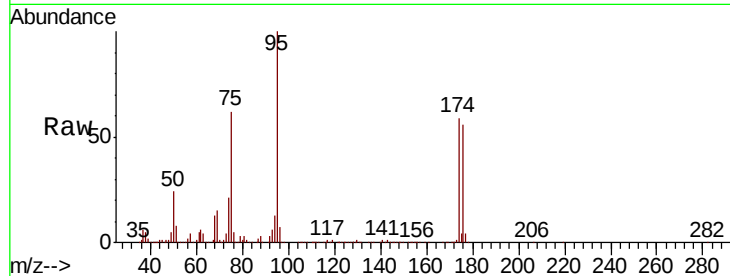


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.236 ppbv
 RT: 14.41 min
 Delta R.T.: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 7 Jun 2022 19:35

Tot Ion:
 Ion Ratio
 95 100
 174 64.
 175 4.

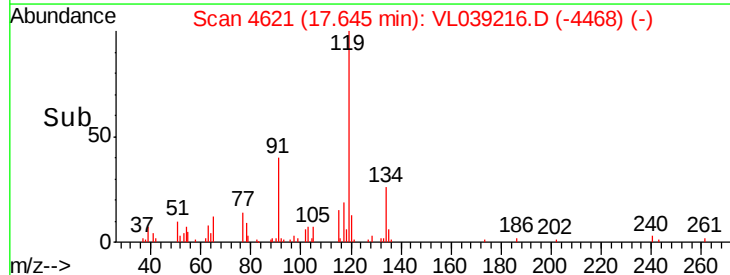
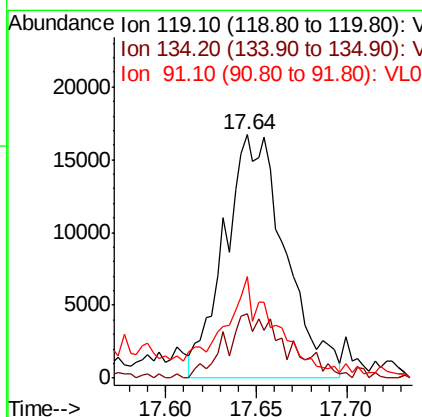
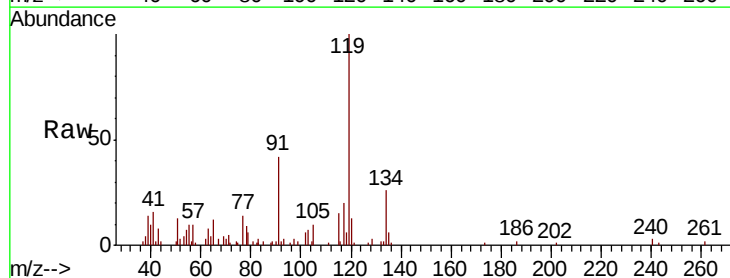
Manual Integrations
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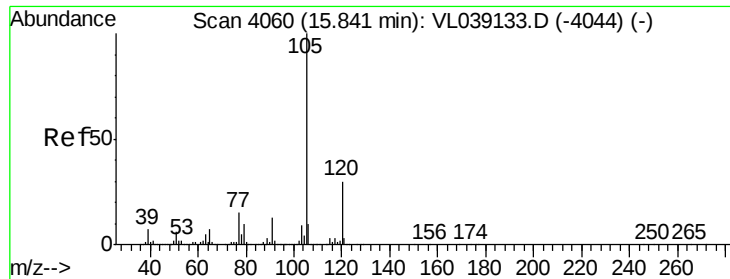
Reviewed By :Semsettin Yesilyurt 06/10/2022
 Supervised By :Mahesh Dadoda 06/10/2022



#69
 p-Isopropyltoluene
 Concen: 0.122 ppbv m
 RT: 17.64 min Scan# 4621
 Delta R.T.: -0.01 min
 Lab File: VL039216.D
 Acq: 7 Jun 2022 19:35

Tgt Ion:119 Resp: 39190
 Ion Ratio Lower Upper
 119 100
 134 26.3 20.4 30.6
 91 37.1 24.2 36.4#





#72

4-Ethyltoluene

Concen: 0.141 ppbv m

RT: 15.83

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Jun 2022 19:35

Tot Ion:1

Ion Rati

105 100

120 0.

91 20.

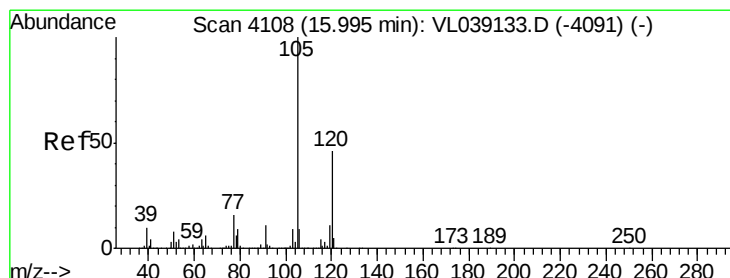
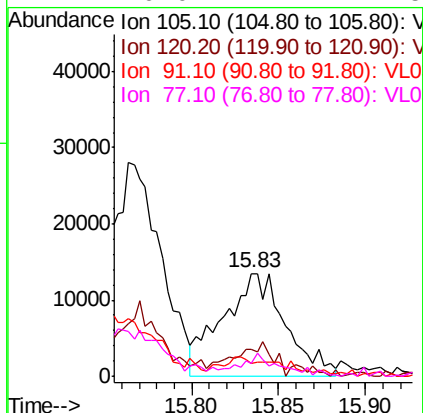
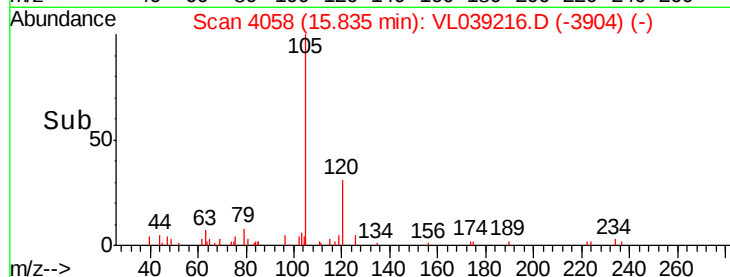
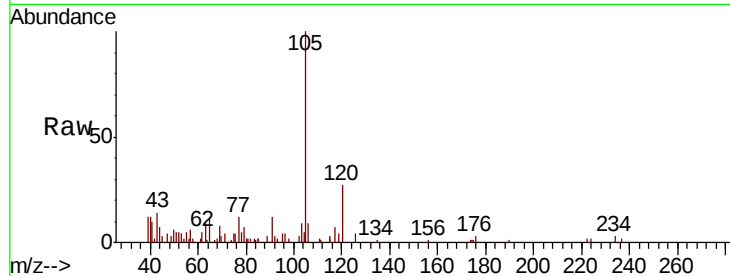
77 0.0 11.7 17.5#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/10/2022

Supervised By :Mahesh Dadoda 06/10/2022



#73

1,3,5-Trimethylbenzene

Concen: 0.127 ppbv m

RT: 16.00 min Scan# 4109

Delta R.T. 0.00 min

Lab File: VL039216.D

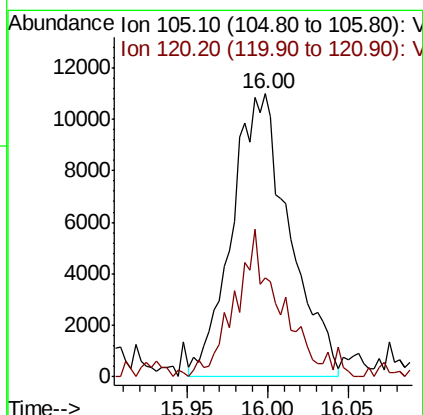
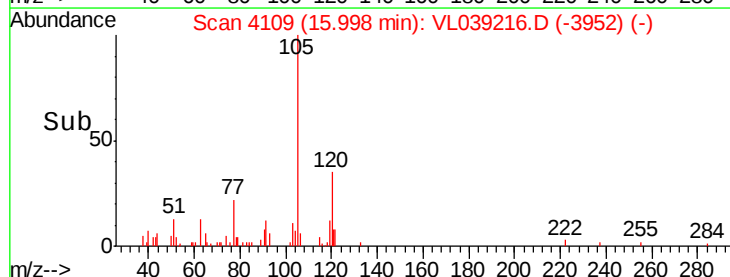
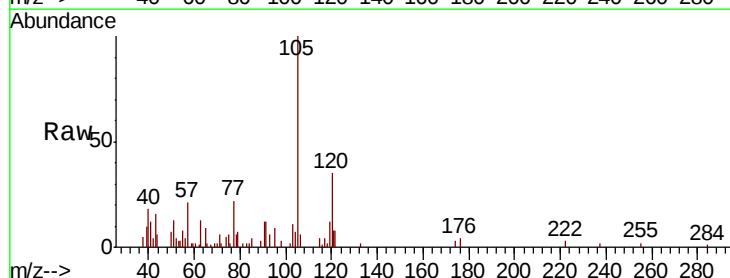
Acq: 7 Jun 2022 19:35

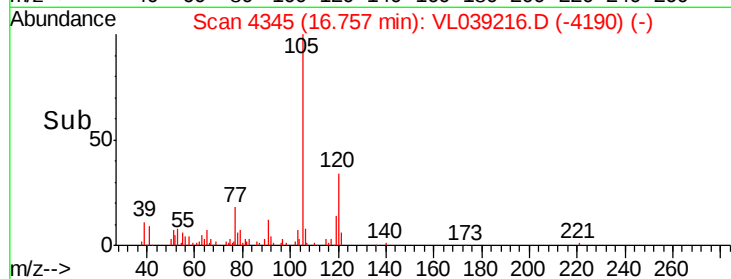
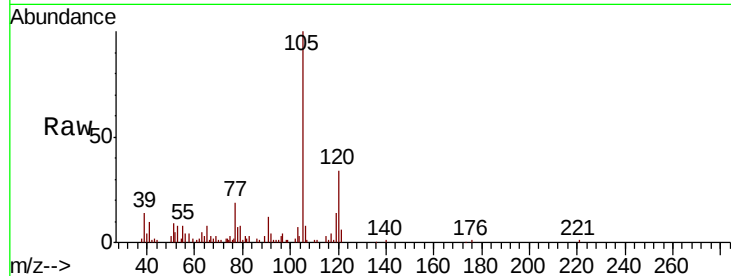
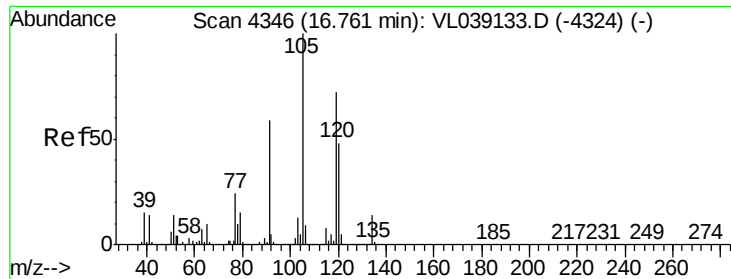
Tgt Ion:105 Resp: 27534

Ion Ratio Lower Upper

105 100

120 35.2 36.7 55.1#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.363 ppbv m
 RT: 16.76
 Delta R.T
 Lab File:
 Acq: 7 Jun 2022 19:35

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 06/10/2022
 Supervised By :Mahesh Dadoda 06/10/2022

Tot Ion	Ion	Ratio
105	100	
120	33.	
91	12.	
77	19.5	
	19.5	
	29.3	

