

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090722\
 Data File : VL039617.D
 Acq On : 7 Sep 2022 13:31
 Operator : SY/AP
 Sample : N4494-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 IA-1

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/08/2022
 Supervised By : Mahesh Dadoda 09/08/2022

Quant Time: Sep 08 06:13:00 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081722A

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

QLast Update : Fri Aug 26 06:05:16 2022

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.21	49	974444	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	6.66	114	2492307	10.00	ppbv	0.00
55) Chlorobenzene-d5	11.47	117	2224866	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	13.78	95	1679092	10.00	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.00%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	2.75	85	29227	0.225	ppbv	96
3) Chlorodifluoromethane	2.67	51	3209069	27.641	ppbv #	58
4) Chloromethane	2.84	50	36750	0.526	ppbv #	88
9) Propene	2.73	41	113372m	2.134	ppbv	
10) Heptane	7.59	43	61135m	0.497	ppbv	
11) Trichlorofluoromethane	3.58	101	35453m	0.249	ppbv	
12) 1,1,2-Trichlorotrifluoroet	4.09	101	9769m	0.093	ppbv	
13) Ethanol	3.26	45	7437726	1948.149	ppbv	72
15) Acetone	3.48	43	4929400	45.160	ppbv	98
20) Methylene Chloride	3.95	84	85755	1.934	ppbv	93
25) Ethyl Acetate	5.22	43	228500	0.978	ppbv #	96
26) Hexane	5.23	57	77409	0.812	ppbv #	69
27) Carbon Disulfide	4.14	76	10334m	0.101	ppbv	
29) Chloroform	5.29	83	58663	0.393	ppbv	95
34) 2-Butanone	4.81	43	92427	0.746	ppbv	96
35) Carbon Tetrachloride	6.51	117	12129m	0.090	ppbv	
36) Benzene	6.38	78	62336	0.328	ppbv #	91
37) 1,2-Dichloroethane	5.82	62	7847m	0.075	ppbv	
44) 2,2,4-Trimethylpentane	7.33	57	99589m	0.311	ppbv	
50) 4-Methyl-2-Pentanone	8.21	43	17310m	0.090	ppbv	
53) Toluene	9.23	91	292728	1.377	ppbv	99
58) Ethyl Benzene	12.10	91	57894	0.226	ppbv	95
59) m/p-Xylene	12.35	91	170757m	0.745	ppbv	
60) o-Xylene	13.07	91	62439	0.284	ppbv	88
61) Styrene	12.91	104	22759m	0.194	ppbv	
62) Isopropylbenzene	14.03	105	13676m	0.041	ppbv	
73) 1,3,5-Trimethylbenzene	15.35	105	18027m	0.077	ppbv	
74) 1,2,4-Trimethylbenzene	16.12	105	69536m	0.265	ppbv	
76) 1,4-Dichlorobenzene	16.48	146	19178m	0.121	ppbv	

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

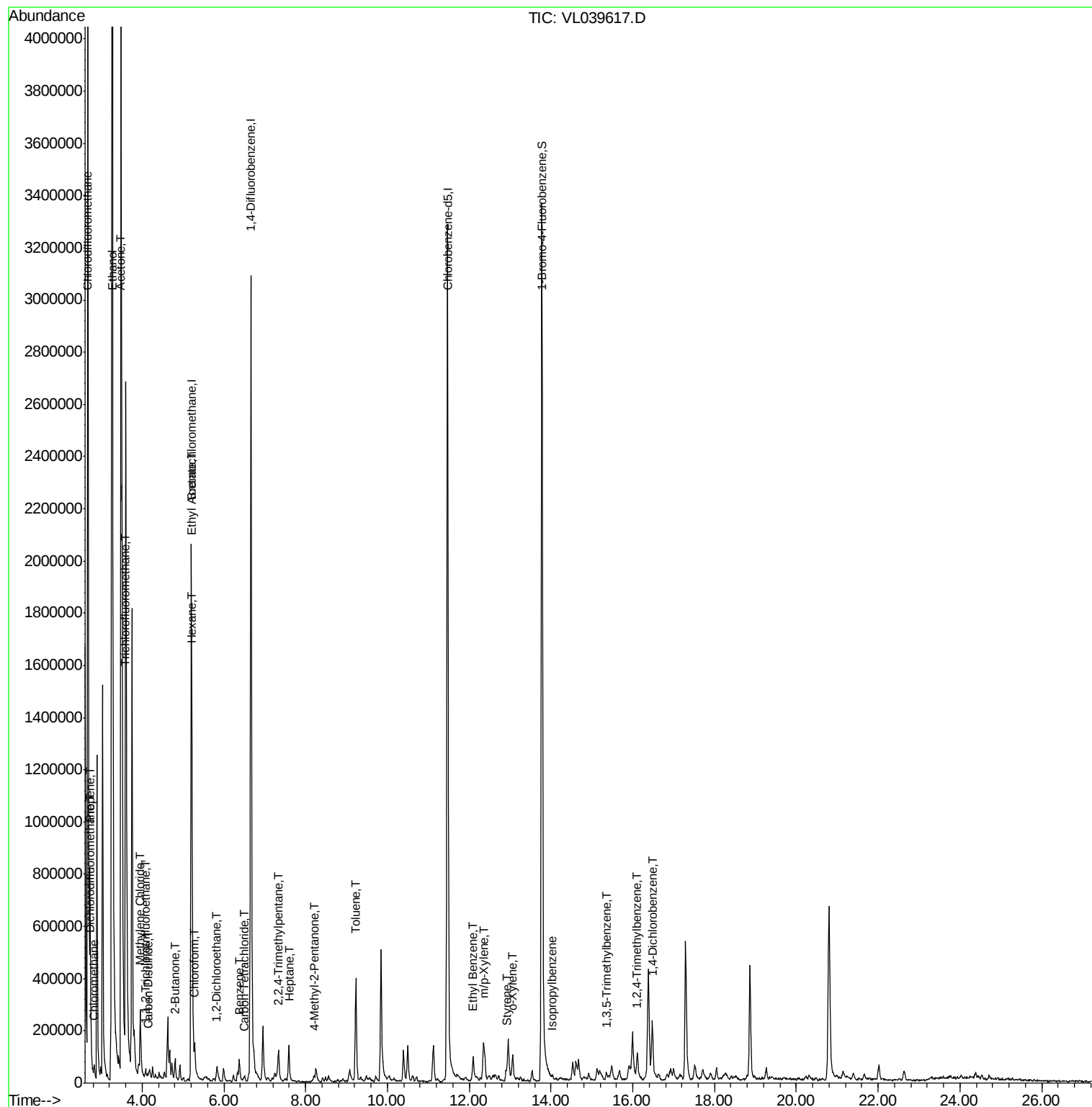
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL090722\
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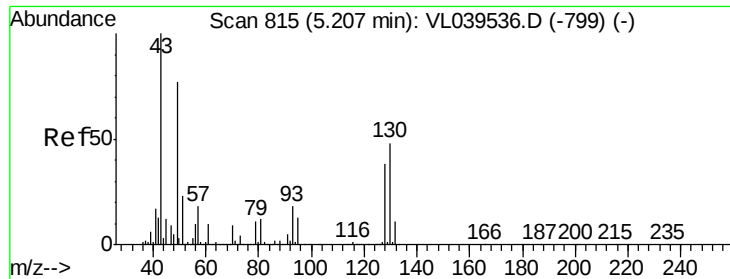
Instrument :
MSVOA_L
ClientSampleId :
IA-1

Quant Time: Sep 08 06:13:00 2022
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Fri Aug 26 06:05:16 2022
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Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/08/2022
Supervised By :Mahesh Dadoda 09/08/2022





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.21 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Sep 2022 13:31

Tot Ion:

Ion Ratio

49 100

128 50.

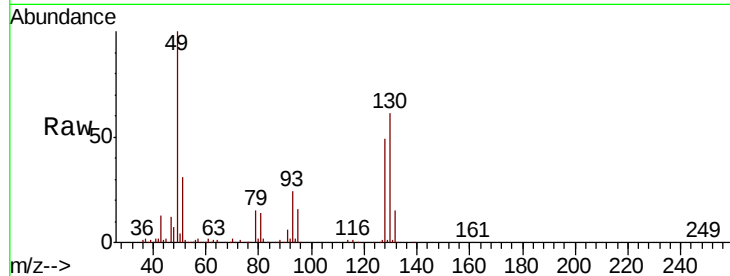
130 63.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/08/2022

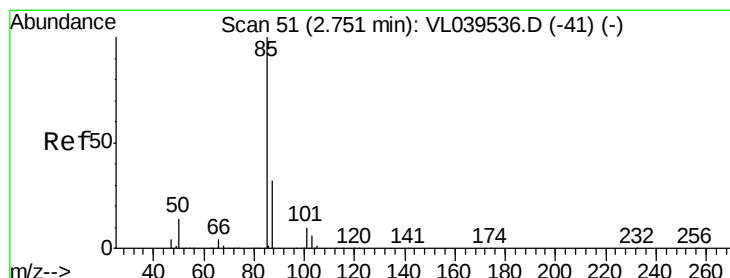
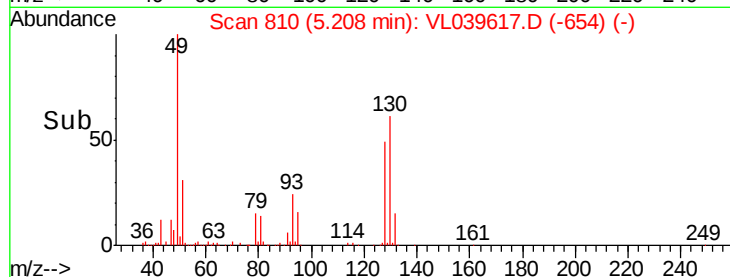
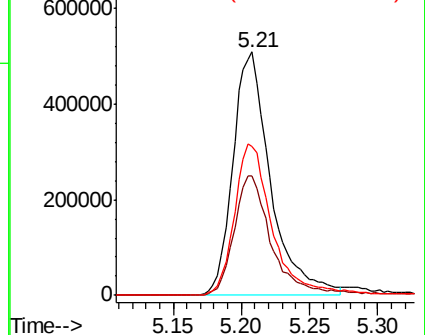
Supervised By :Mahesh Dadoda 09/08/2022



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.225 ppbv

RT: 2.75 min Scan# 46

Delta R.T. 0.00 min

Lab File: VL039617.D

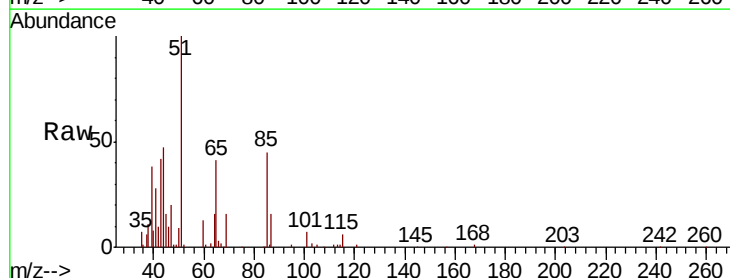
Acq: 7 Sep 2022 13:31

Tgt Ion: 85 Resp: 29227

Ion Ratio Lower Upper

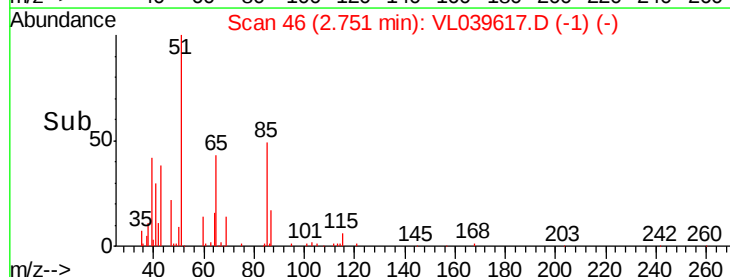
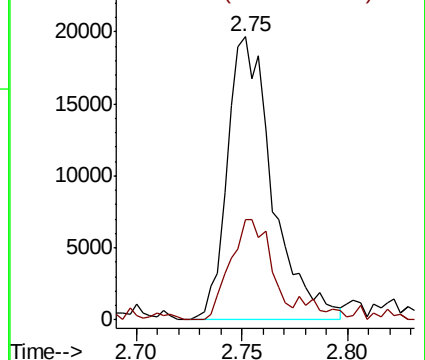
85 100

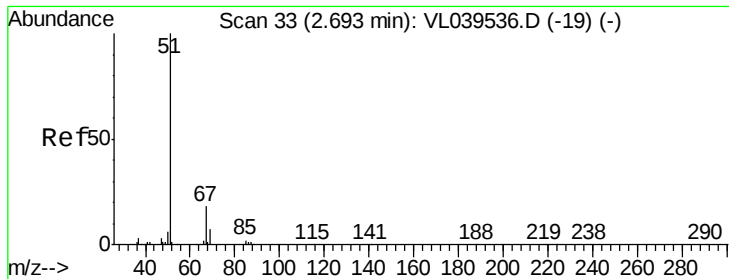
87 35.4 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 27.641 ppbv

RT: 2.67

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Sep 2022 13:31

Tot Ion:

Ion Ratio

51 100

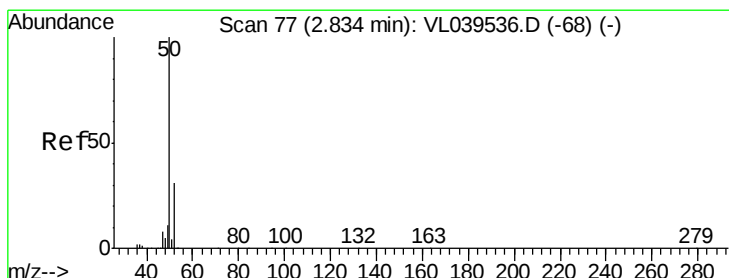
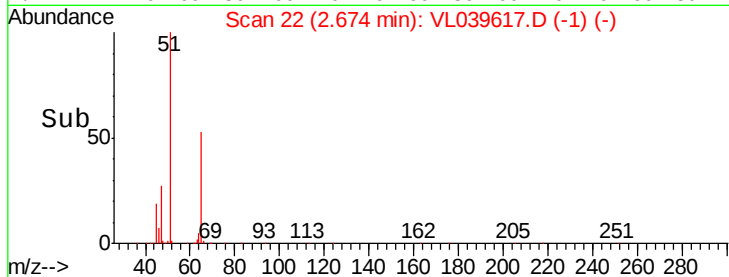
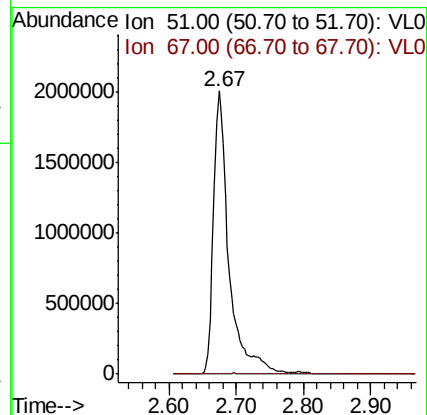
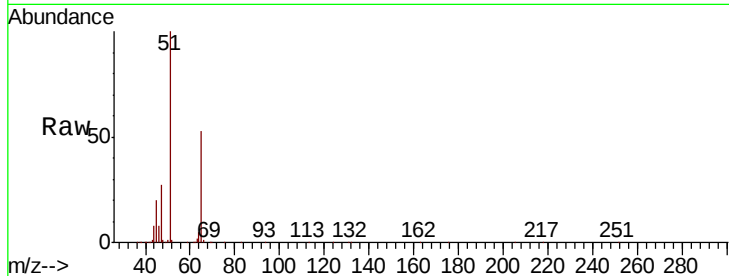
67 0.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/08/2022

Supervised By :Mahesh Dadoda 09/08/2022



#4

Chloromethane

Concen: 0.526 ppbv

RT: 2.84 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL039617.D

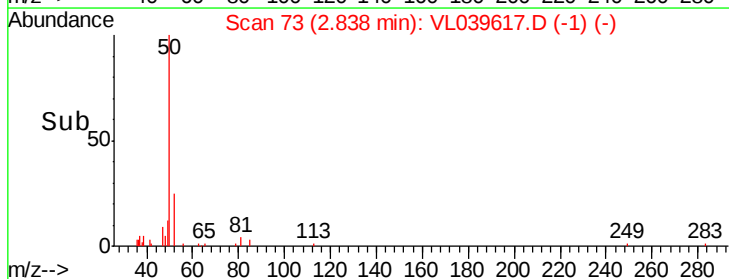
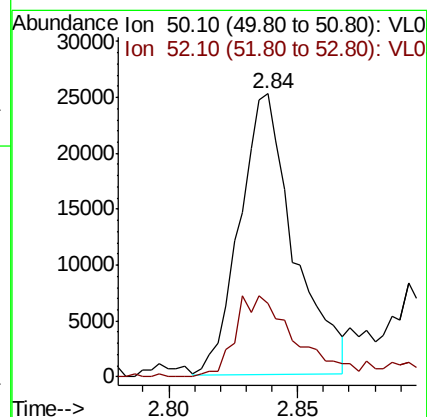
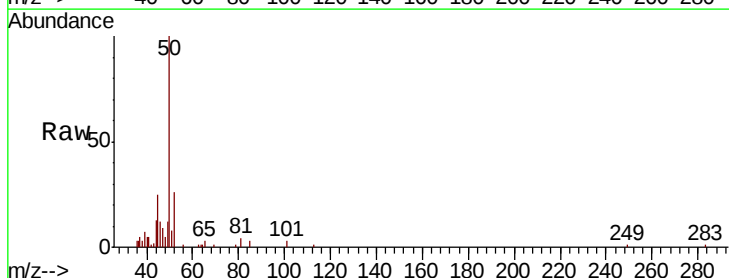
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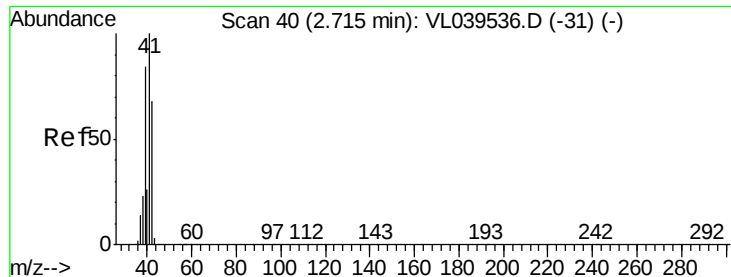
Tgt Ion: 50 Resp: 36750

Ion Ratio Lower Upper

50 100

52 26.4 26.5 39.7#





#9

Propene

Concen: 2.134 ppbv m

RT: 2.73

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Sep 2022 13:31

Tot Ion:

Ion Ratio

41 100

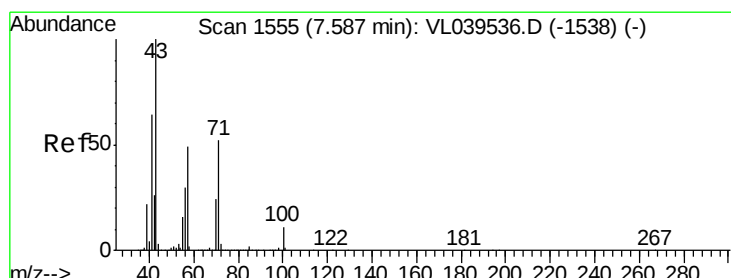
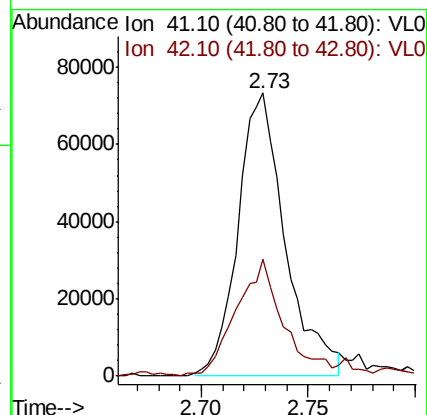
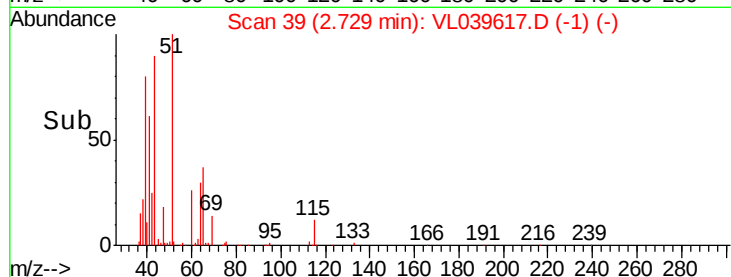
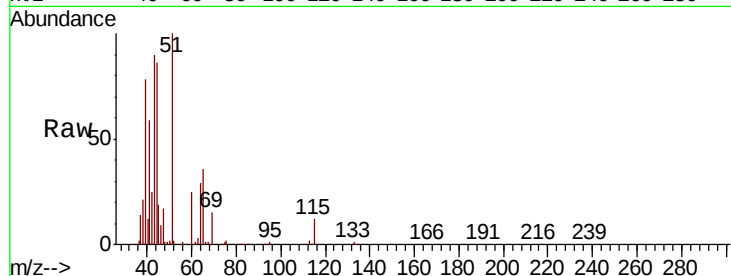
42 228.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/08/2022

Supervised By :Mahesh Dadoda 09/08/2022



#10

Heptane

Concen: 0.497 ppbv m

RT: 7.59 min Scan# 1551

Delta R.T. 0.00 min

Lab File: VL039617.D

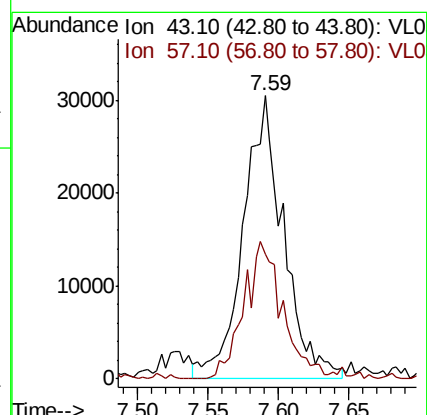
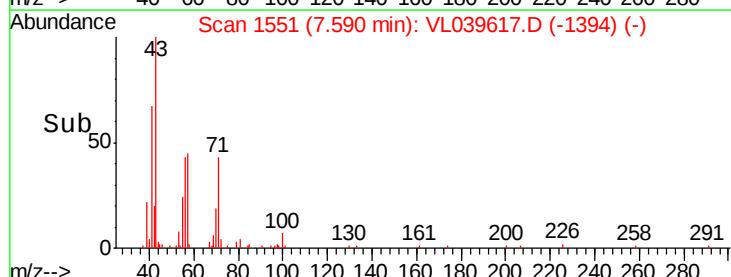
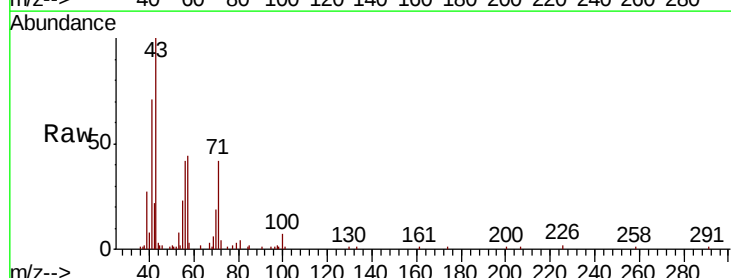
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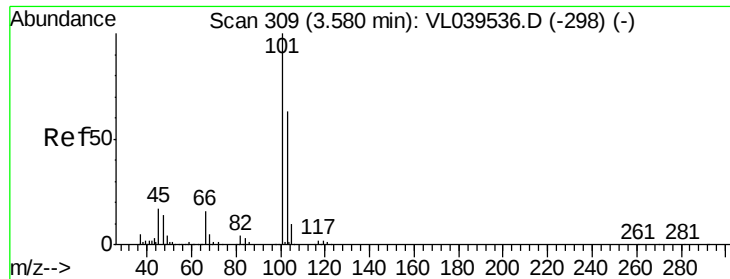
Tgt Ion: 43 Resp: 61135

Ion Ratio Lower Upper

43 100

57 48.7 40.5 60.7



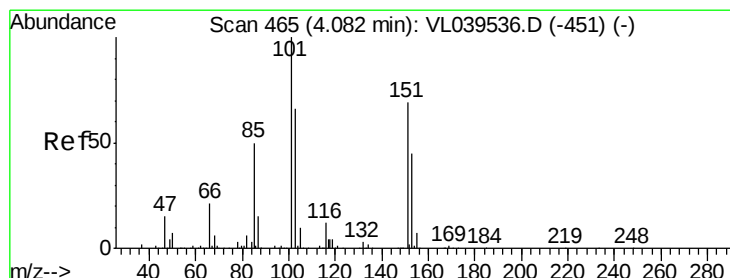
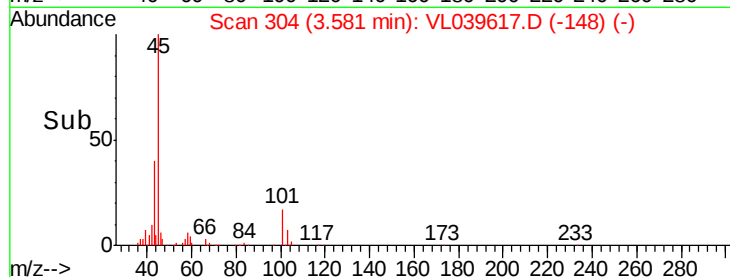
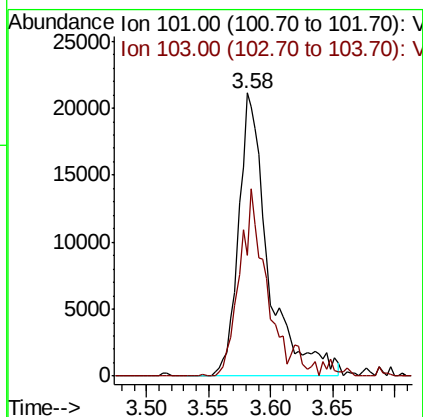
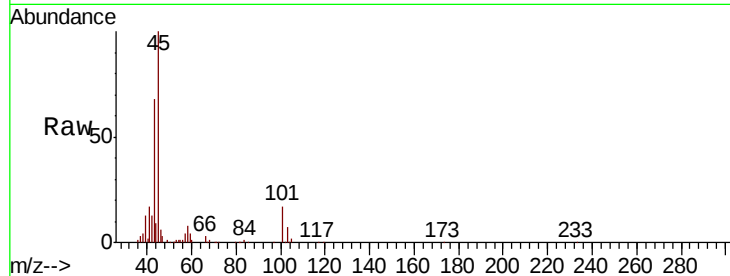


#11
 Trichlorofluoromethane
 Concen: 0.249 ppbv m
 RT: 3.58 Instrument : MSVOA_1
 Delta R.T. ClientSampleId :
 Lab File: IA-1
 Acq: 7 Sep 2022 13:31

Tot Ion:1
 Ion Rati
 101 100
 103 42.

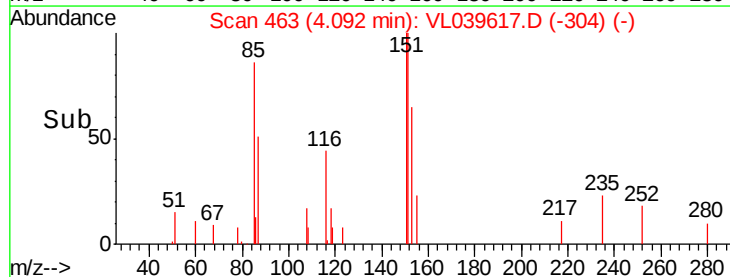
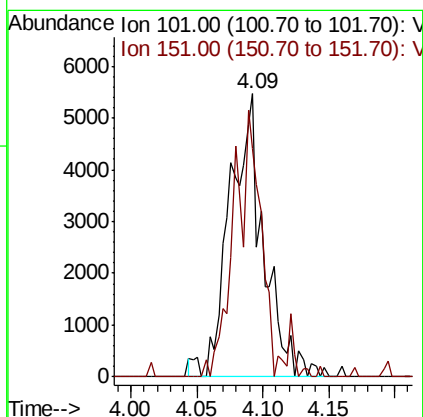
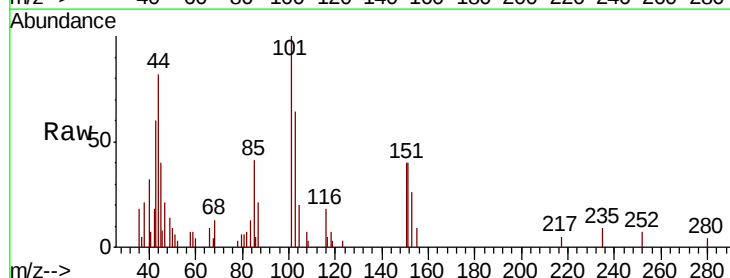
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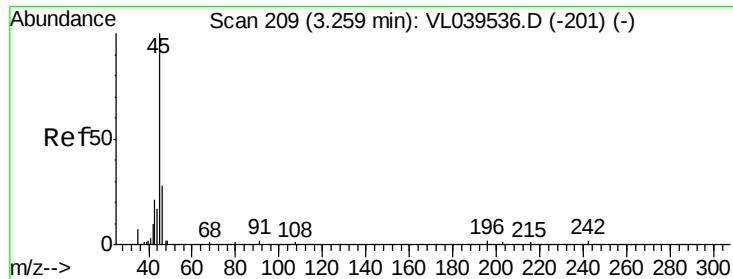
Reviewed By :Semsettin Yesilyurt 09/08/2022
 Supervised By :Mahesh Dadoda 09/08/2022



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.093 ppbv m
 RT: 4.09 min Scan# 463
 Delta R.T. 0.01 min
 Lab File: VL039617.D
 Acq: 7 Sep 2022 13:31

Tgt Ion:101 Resp: 9769
 Ion Ratio Lower Upper
 101 100
 151 0.0 58.9 88.3#



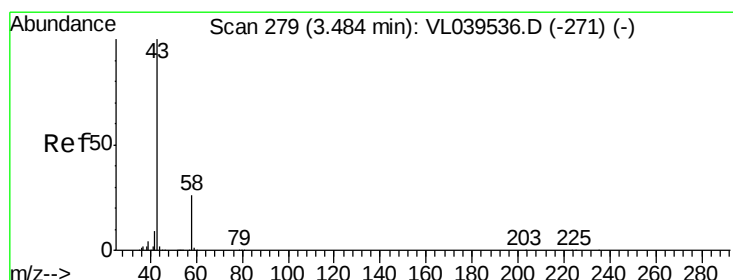
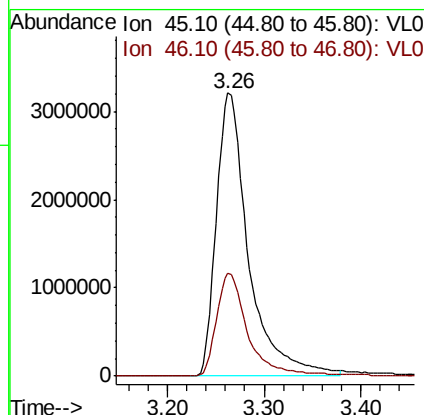
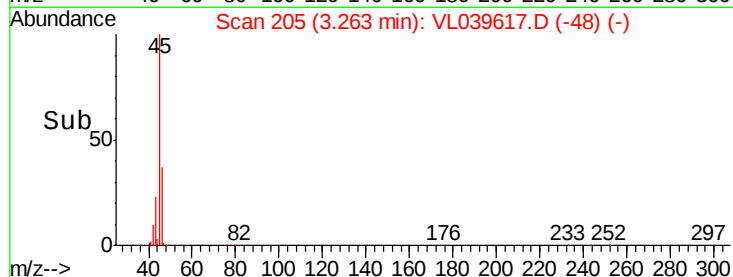
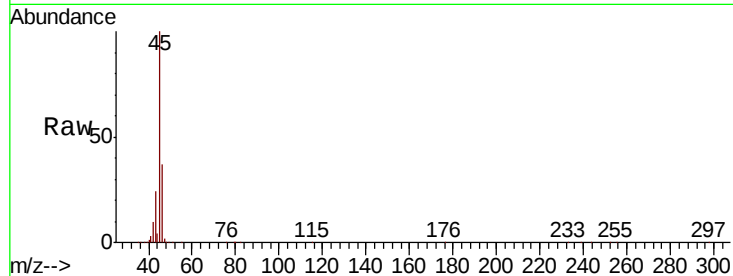


#13
Ethanol
Concen: 1948.149 ppbv
RT: 3.26
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Sep 2022 13:31

Tot Ion:
Ion Ratio
45 100
46 36.

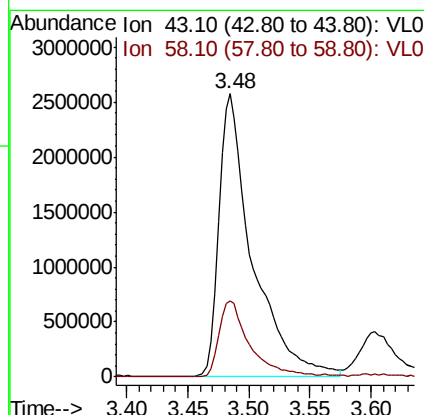
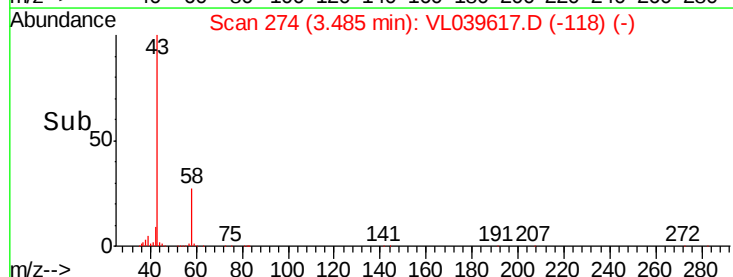
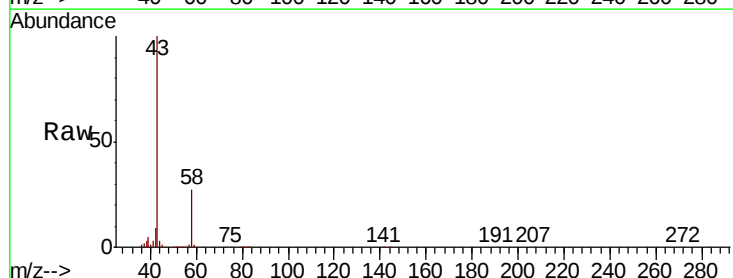
Manual Integrations
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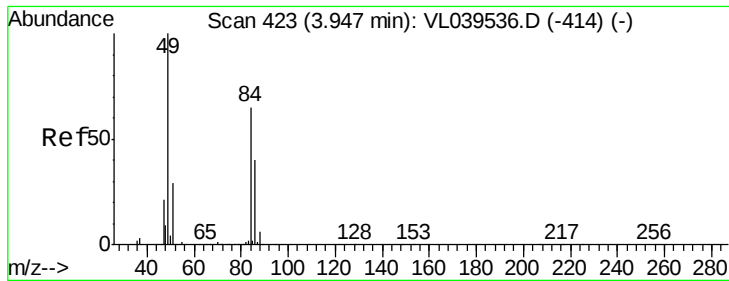
Reviewed By :Semsettin Yesilyurt 09/08/2022
Supervised By :Mahesh Dadoda 09/08/2022



#15
Acetone
Concen: 45.160 ppbv
RT: 3.48 min Scan# 274
Delta R.T. 0.00 min
Lab File: VL039617.D
Acq: 7 Sep 2022 13:31

Tgt Ion: 43 Resp: 4929400
Ion Ratio Lower Upper
43 100
58 25.3 21.0 31.6



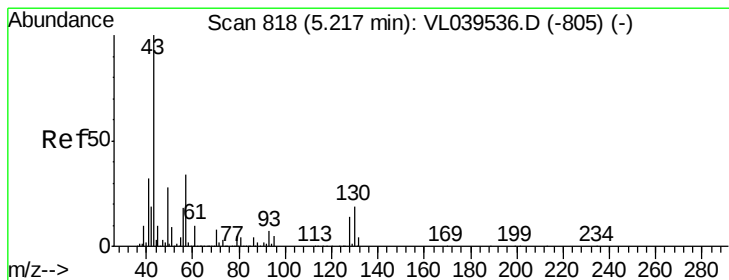
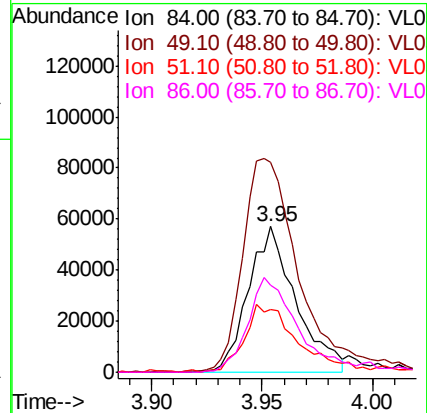
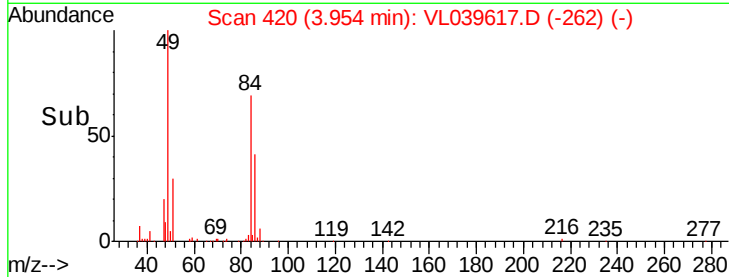
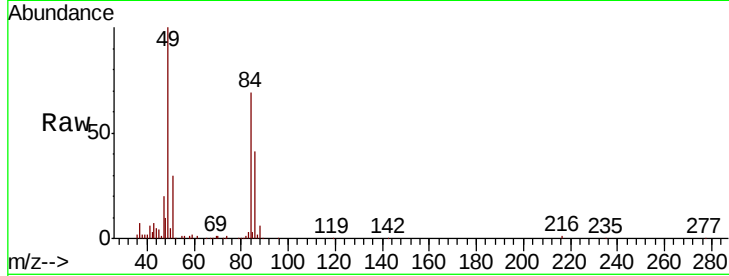


#20
Methvlene Chloride
Concen: 1.934 ppbv
RT: 3.95
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
Acq: 7 Sep 2022 13:31

Tot Ion:
Ion Ratio
84 100
49 143.
51 41.
86 59.6 51.1 76.7

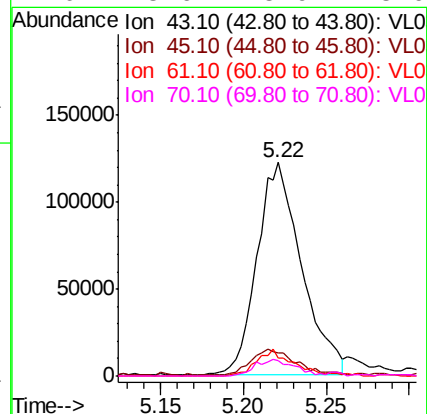
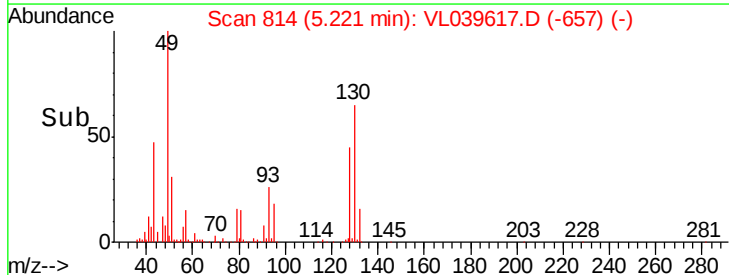
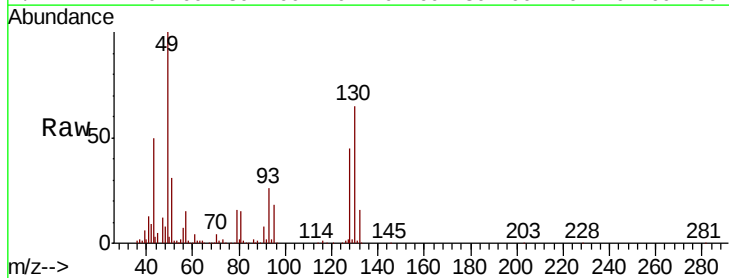
Manual Integrations
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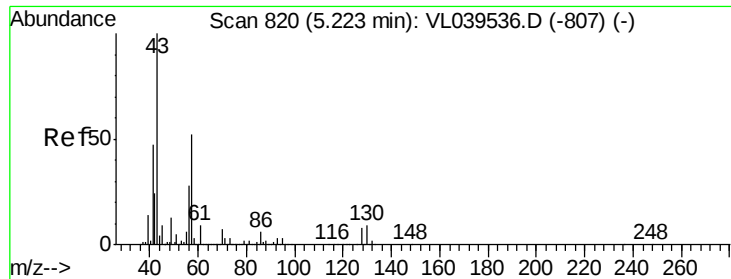
Reviewed By :Semsettin Yesilyurt 09/08/2022
Supervised By :Mahesh Dadoda 09/08/2022



#25
Ethyl Acetate
Concen: 0.978 ppbv
RT: 5.22 min Scan# 814
Delta R.T. 0.00 min
Lab File: VL039617.D
Acq: 7 Sep 2022 13:31

Tgt Ion: 43 Resp: 228500
Ion Ratio Lower Upper
43 100
45 13.2 8.2 12.4#
61 10.9 8.3 12.5
70 8.6 5.9 8.9



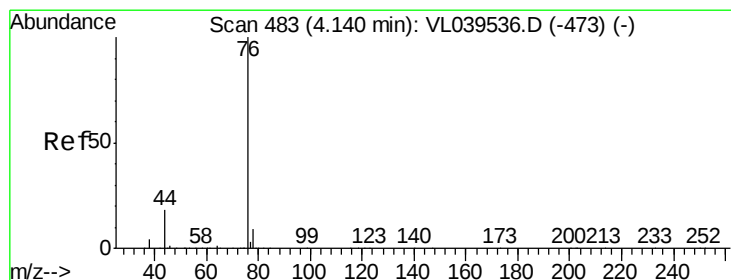
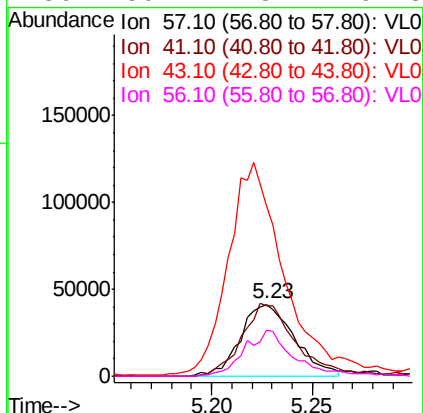
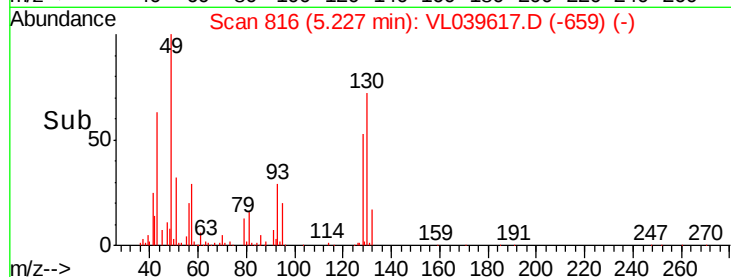
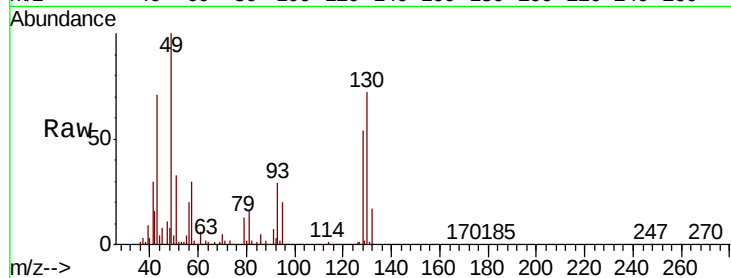


#26
Hexane
Concen: 0.812 ppbv
RT: 5.23
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Sep 2022 13:31

Tot Ion:
Ion Ratio
57 100
41 101.
43 318.
56 59.2 43.2 64.8

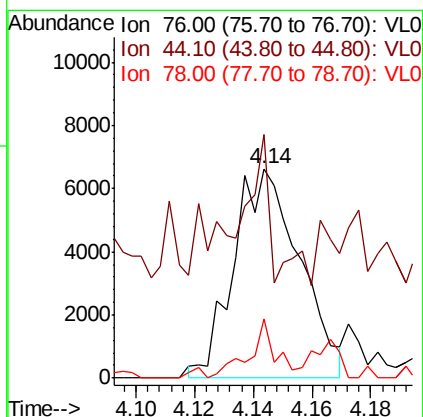
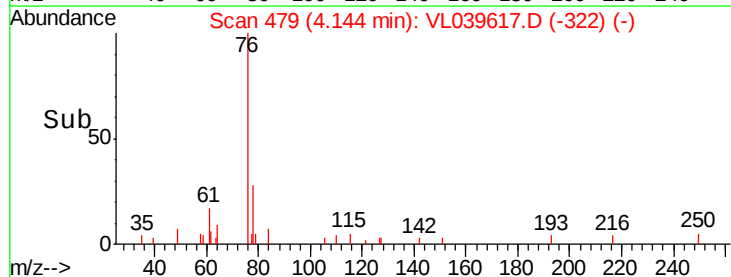
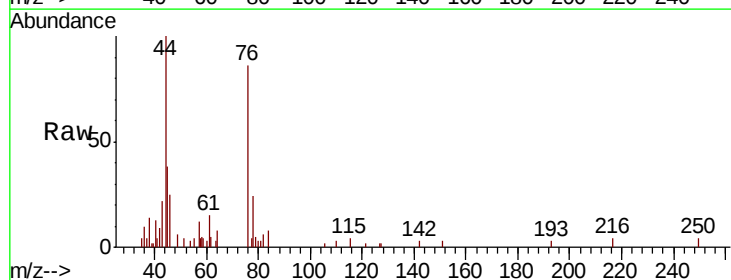
Manual Integrations
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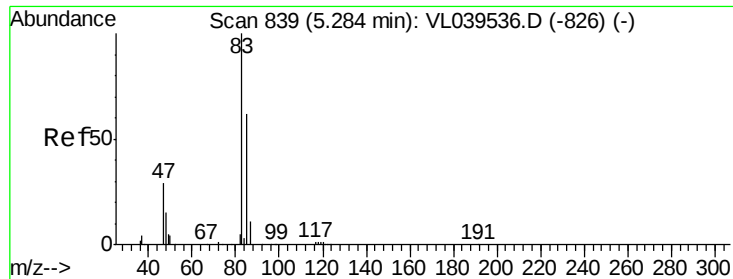
Reviewed By :Semsettin Yesilyurt 09/08/2022
Supervised By :Mahesh Dadoda 09/08/2022



#27
Carbon Disulfide
Concen: 0.101 ppbv m
RT: 4.14 min Scan# 479
Delta R.T. 0.00 min
Lab File: VL039617.D
Acq: 7 Sep 2022 13:31

Tgt Ion: 76 Resp: 10334
Ion Ratio Lower Upper
76 100
44 0.0 14.6 21.8#
78 0.0 7.8 11.6#



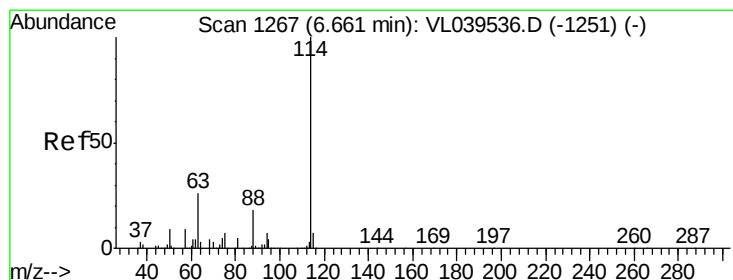
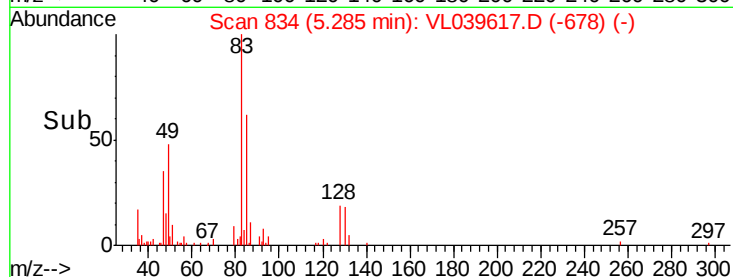
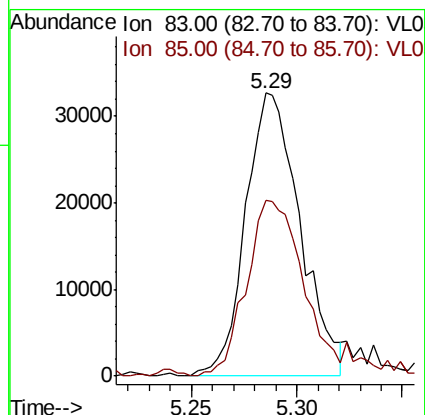
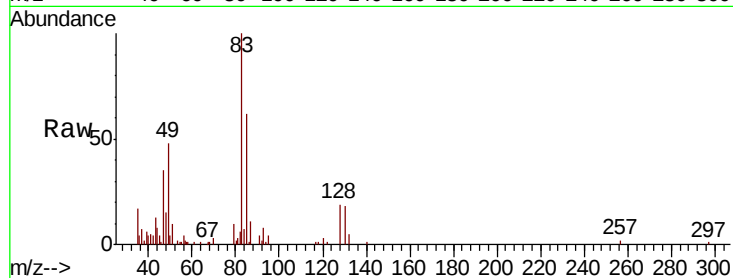


#29
Chloroform
Concen: 0.393 ppbv
RT: 5.29
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Sep 2022 13:31

Tot Ion:
Ion Ratio
83 100
85 62.

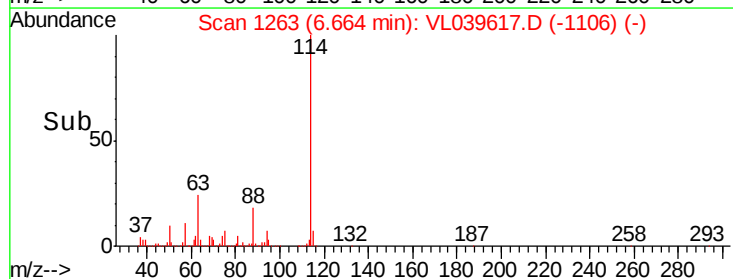
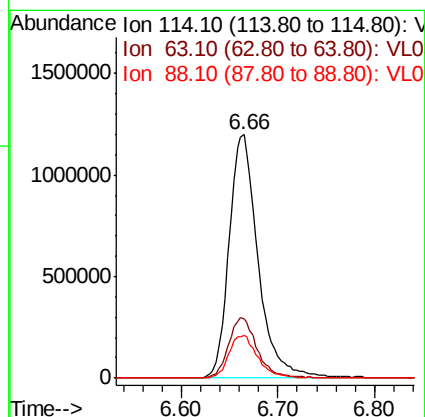
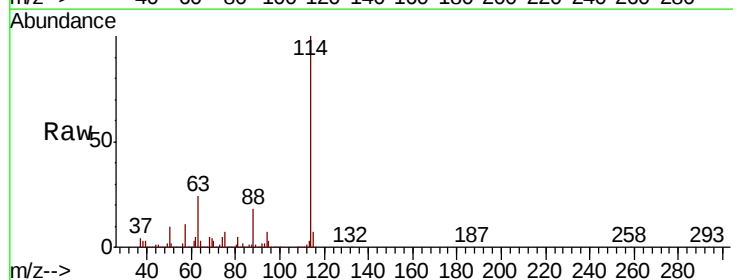
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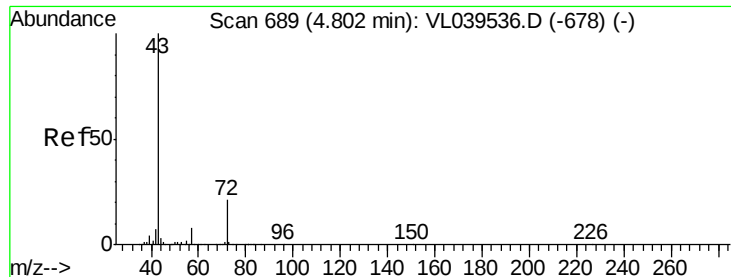
Reviewed By :Semsettin Yesilyurt 09/08/2022
Supervised By :Mahesh Dadoda 09/08/2022



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.66 min Scan# 1263
Delta R.T. 0.00 min
Lab File: VL039617.D
Acq: 7 Sep 2022 13:31

Tgt Ion:114 Resp: 2492307
Ion Ratio Lower Upper
114 100
63 24.7 20.2 30.4
88 17.7 14.5 21.7



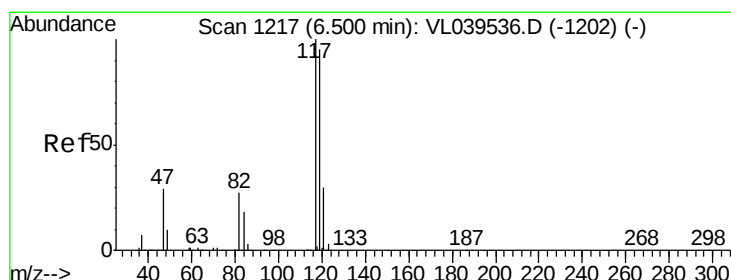
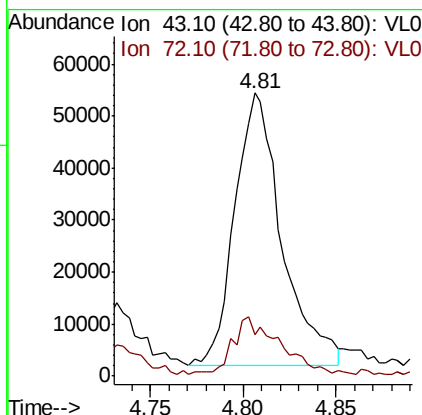
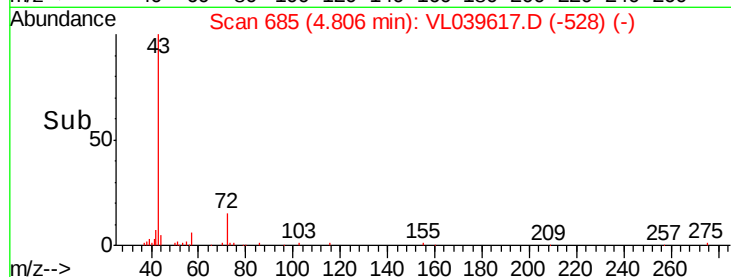
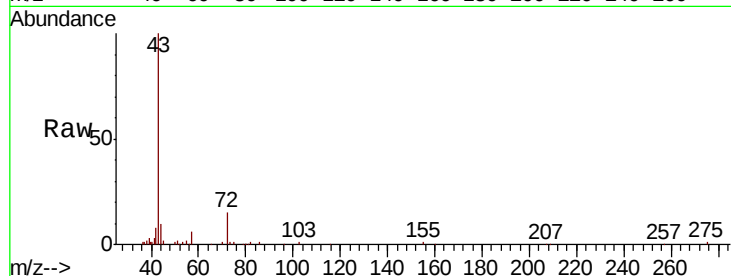


#34
2-Butanone
Concen: 0.746 ppbv
RT: 4.81
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Sep 2022 13:31

Tot Ion:
Ion Ratio
43 100
72 24.

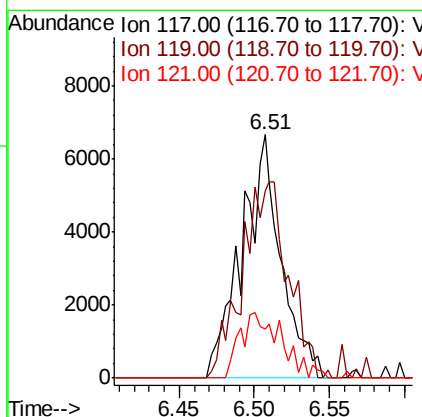
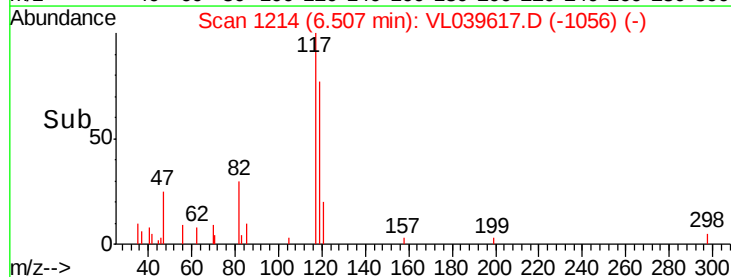
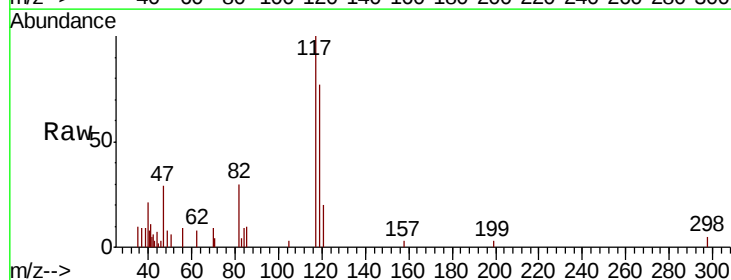
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APPROVED

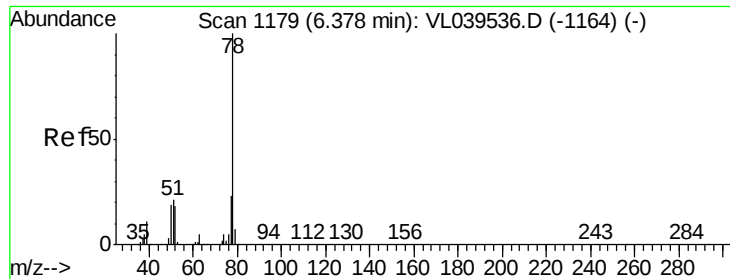
Reviewed By :Semsettin Yesilyurt 09/08/2022
Supervised By :Mahesh Dadoda 09/08/2022



#35
Carbon Tetrachloride
Concen: 0.090 ppbv m
RT: 6.51 min Scan# 1214
Delta R.T. 0.01 min
Lab File: VL039617.D
Acq: 7 Sep 2022 13:31

Tgt Ion:117 Resp: 12129
Ion Ratio Lower Upper
117 100
119 76.9 75.4 113.2
121 20.1 24.2 36.2#



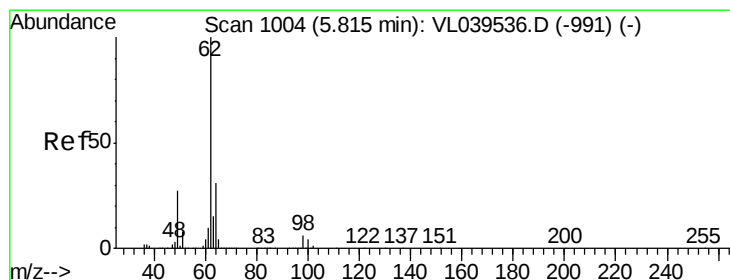
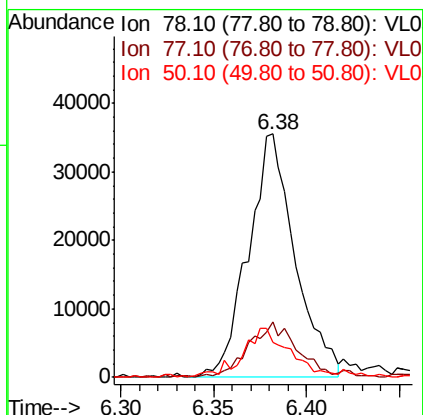
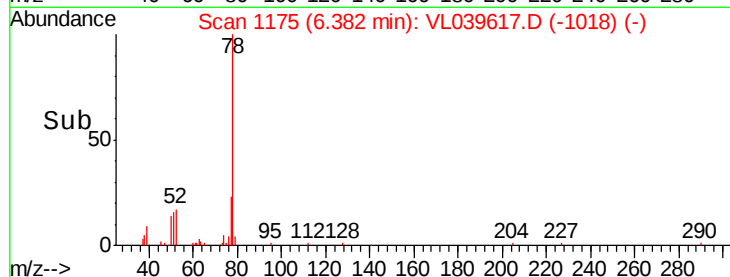
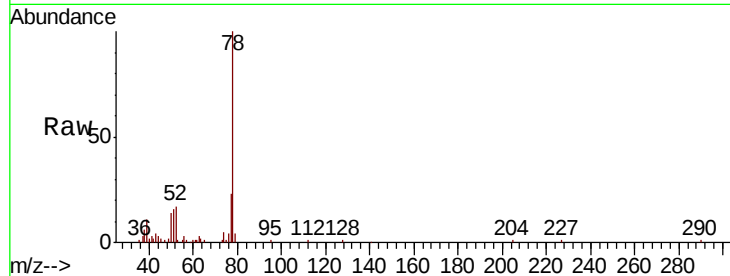


#36
Benzene
Concen: 0.328 ppbv
RT: 6.38
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Sep 2022 13:31

Tot Ion:
Ion Ratio
78 100
77 22.
50 13.

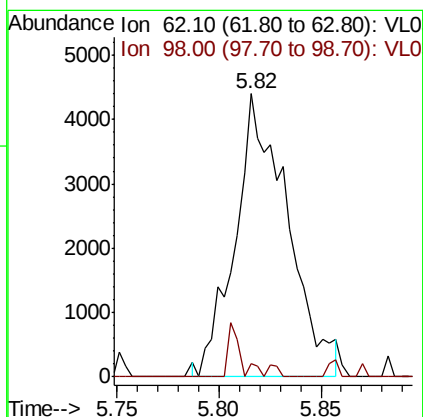
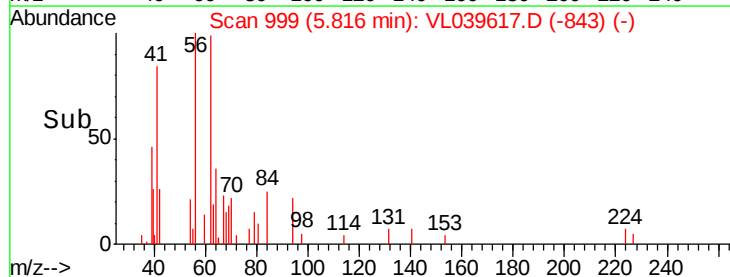
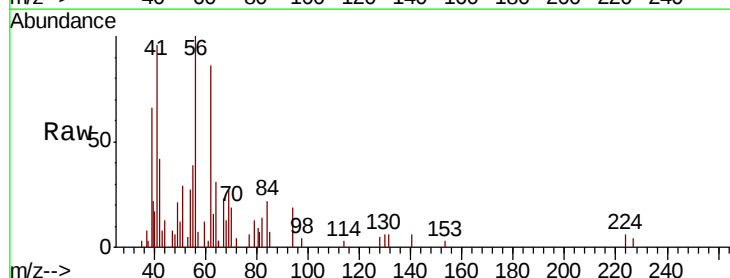
Manual Integrations
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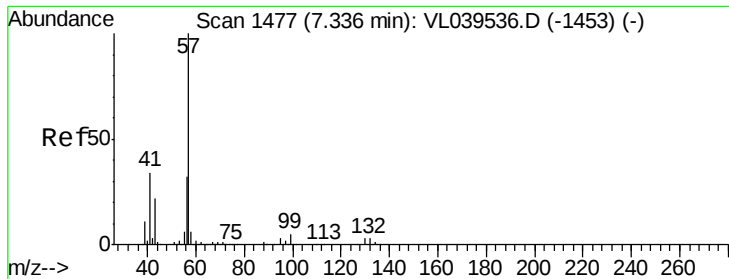
Reviewed By :Semsettin Yesilyurt 09/08/2022
Supervised By :Mahesh Dadoda 09/08/2022



#37
1,2-Dichloroethane
Concen: 0.075 ppbv m
RT: 5.82 min Scan# 999
Delta R.T. 0.00 min
Lab File: VL039617.D
Acq: 7 Sep 2022 13:31

Tgt Ion: 62 Resp: 7847
Ion Ratio Lower Upper
62 100
98 0.0 5.1 7.7#



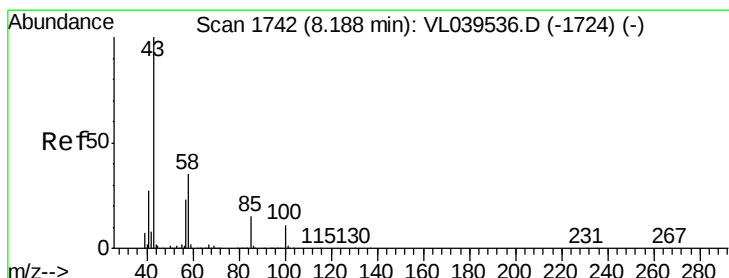
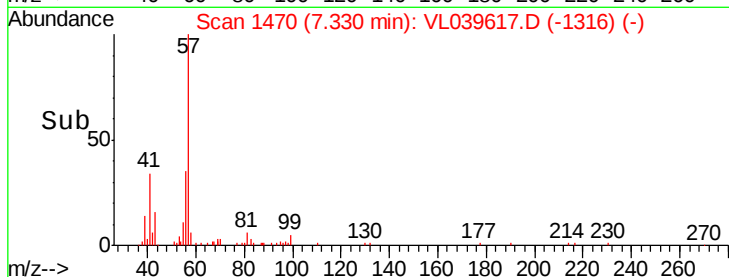
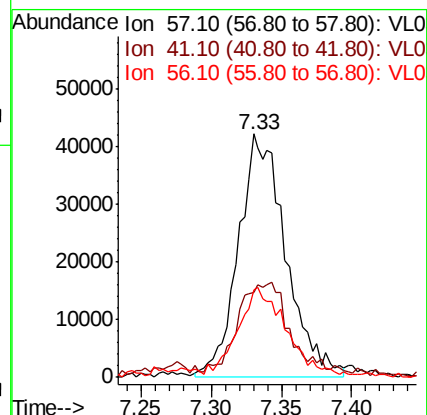
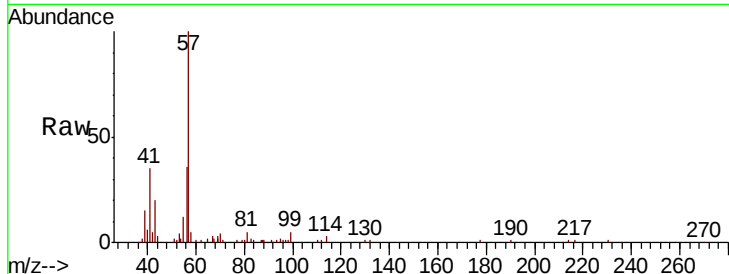


#44
 2,2,4-Trimethylpentane
 Concen: 0.311 ppbv m
 RT: 7.33
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 7 Sep 2022 13:31

Tot Ion:
 Ion Ratio
 57 100
 41 47.
 56 0.

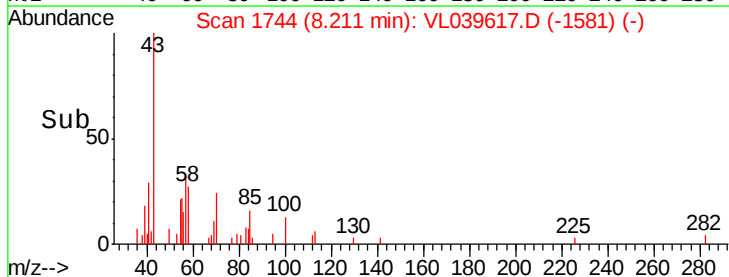
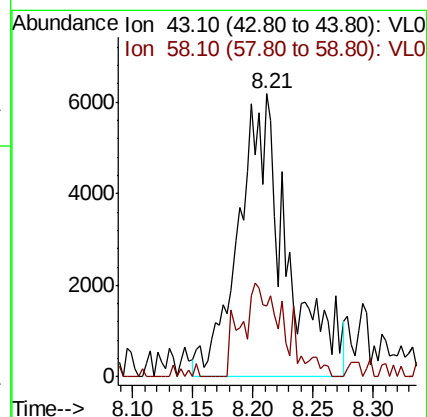
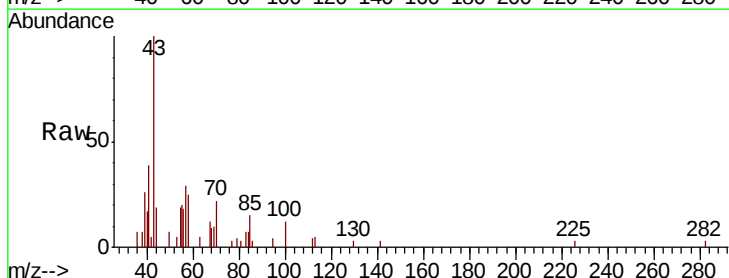
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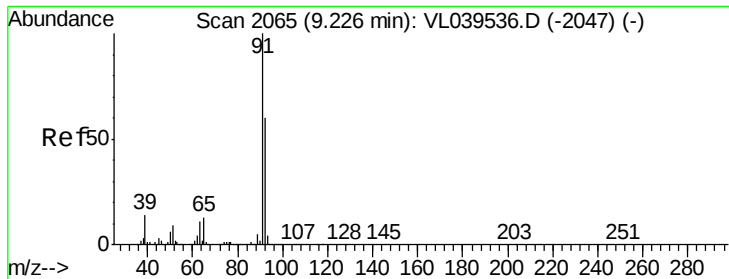
Reviewed By :Semsettin Yesilyurt 09/08/2022
 Supervised By :Mahesh Dadoda 09/08/2022



#50
 4-Methyl-2-Pentanone
 Concen: 0.090 ppbv m
 RT: 8.21 min Scan# 1744
 Delta R.T. 0.02 min
 Lab File: VL039617.D
 Acq: 7 Sep 2022 13:31

Tgt Ion: 43 Resp: 17310
 Ion Ratio Lower Upper
 43 100
 58 28.9 28.8 43.2





#53

Toluene

Concen: 1.377 ppbv

RT: 9.23 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 7 Sep 2022 13:31

Tot Ion:

Ion Ratio

91 100

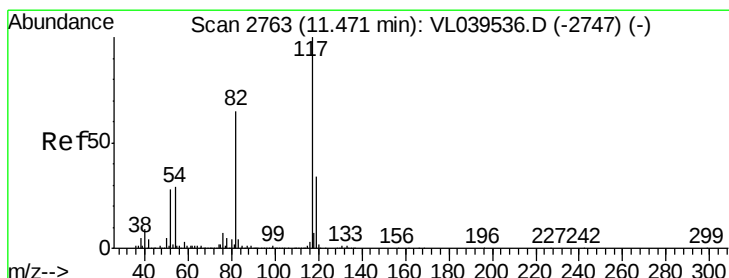
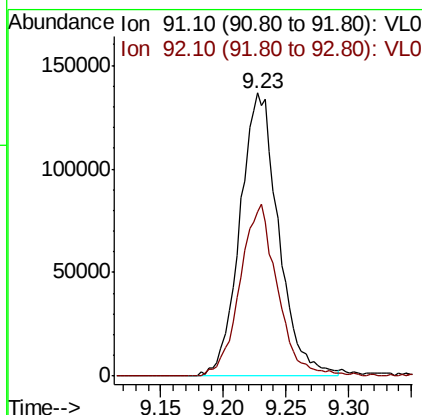
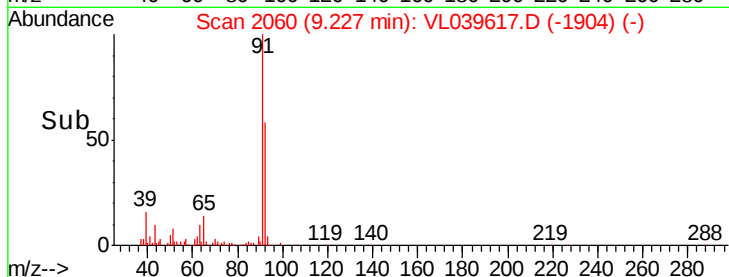
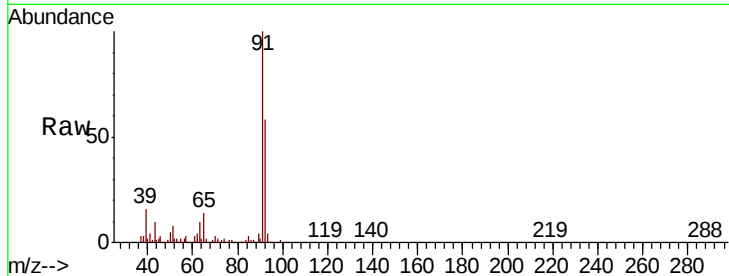
92 59.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/08/2022

Supervised By :Mahesh Dadoda 09/08/2022



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.47 min Scan# 2758

Delta R.T. 0.00 min

Lab File: VL039617.D

Acq: 7 Sep 2022 13:31

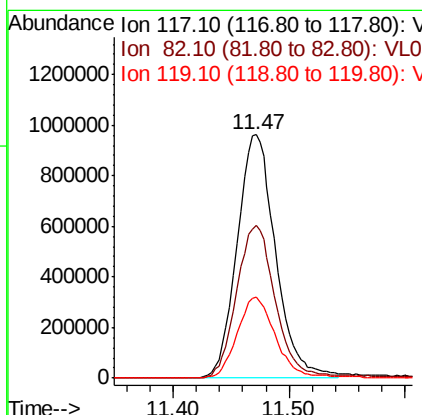
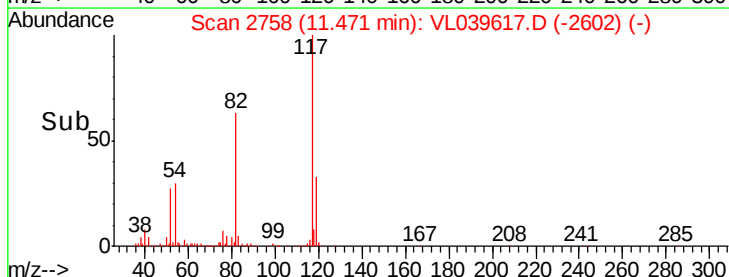
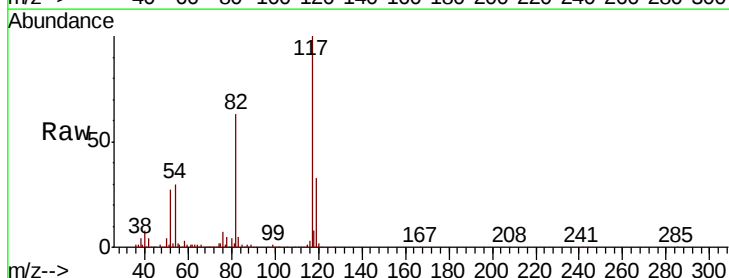
Tgt Ion:117 Resp: 2224866

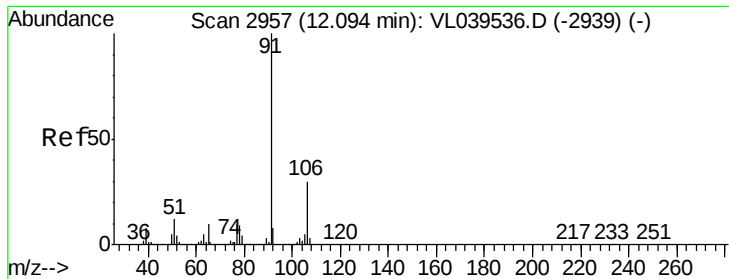
Ion Ratio Lower Upper

117 100

82 65.1 50.8 76.2

119 33.8 24.1 36.1





#58

Ethyl Benzene

Concen: 0.226 ppbv

RT: 12.10

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Sep 2022 13:31

Tot Ion:

Ion Ratio

91 100

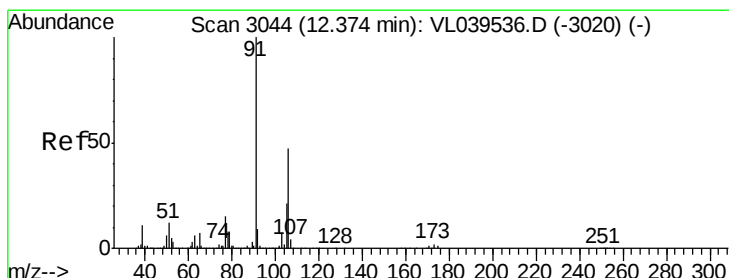
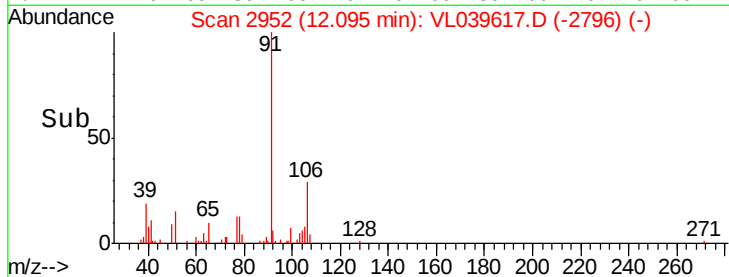
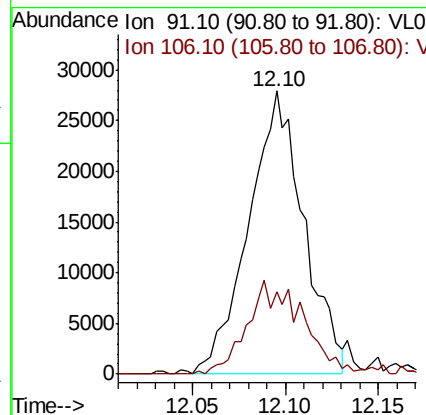
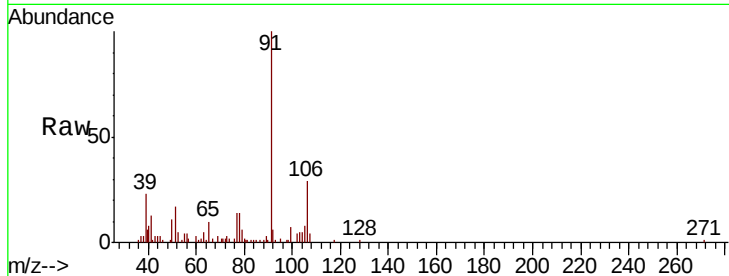
106 28.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/08/2022

Supervised By :Mahesh Dadoda 09/08/2022



#59

m/p-Xylene

Concen: 0.745 ppbv m

RT: 12.35 min Scan# 3032

Delta R.T. -0.02 min

Lab File: VL039617.D

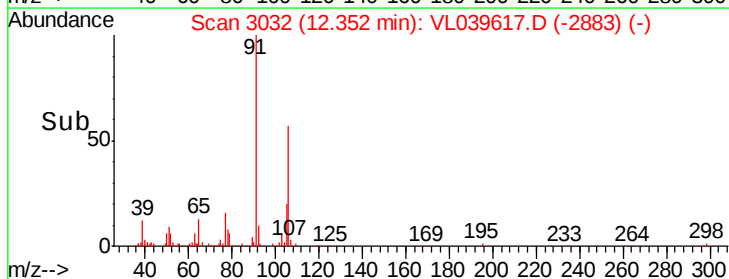
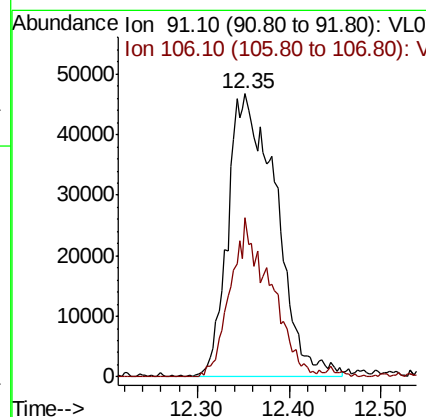
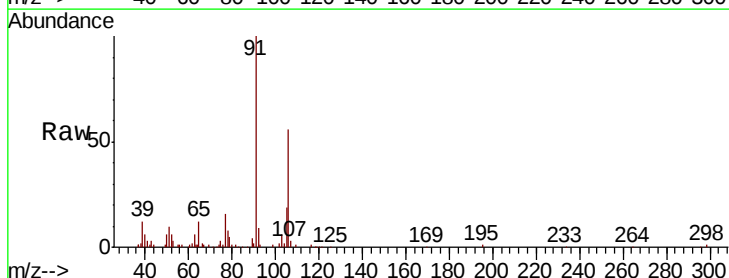
Acq: 7 Sep 2022 13:31

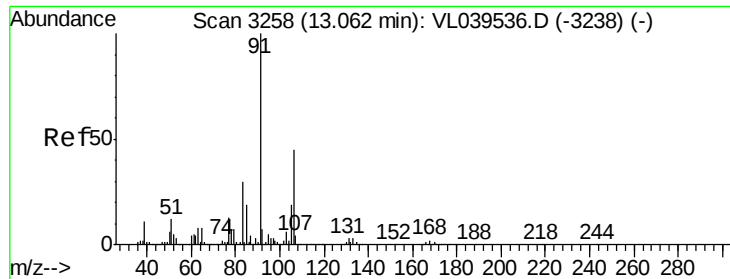
Tgt Ion: 91 Resp: 170757

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.2#



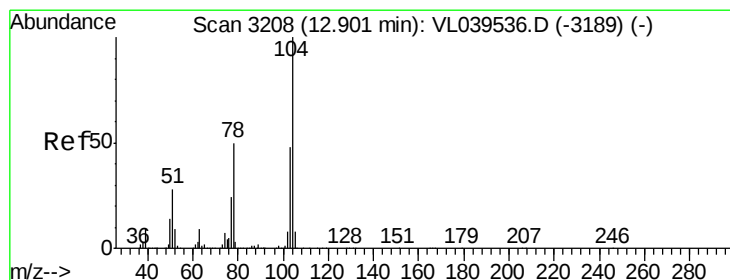
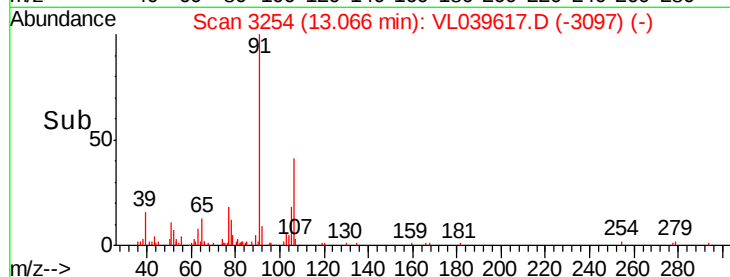
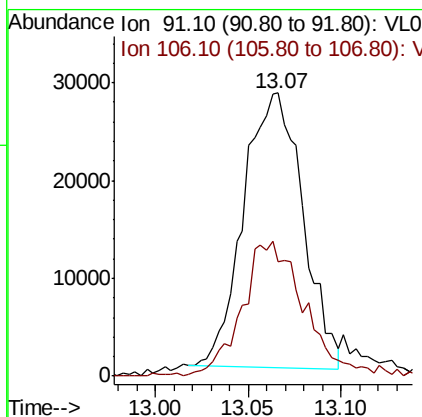
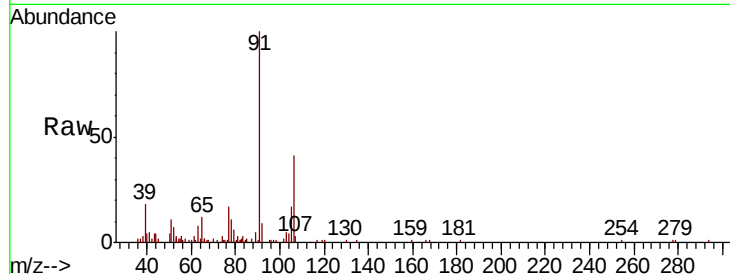


#60
o-Xylene
Concen: 0.284 ppbv
RT: 13.07
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Sep 2022 13:31

Tot Ion:
Ion Ratio
91 100
106 52.

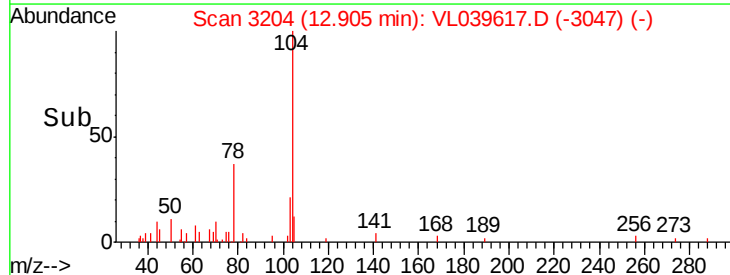
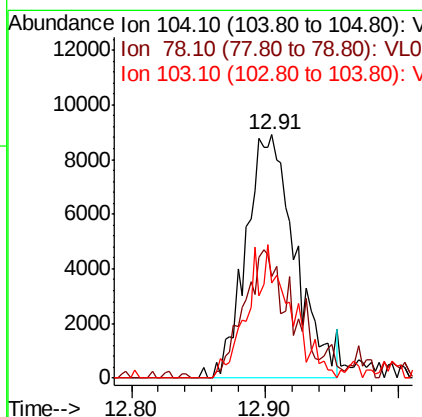
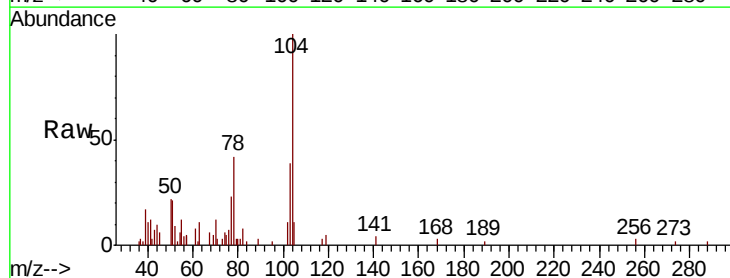
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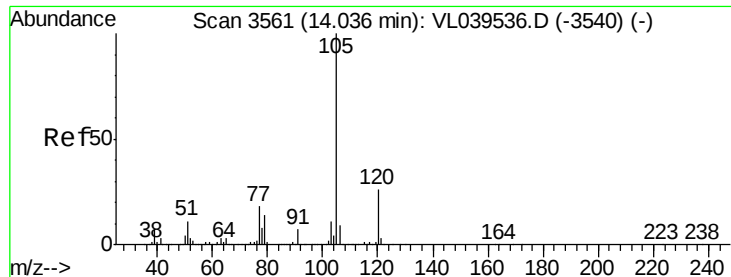
Reviewed By :Semsettin Yesilyurt 09/08/2022
Supervised By :Mahesh Dadoda 09/08/2022



#61
Styrene
Concen: 0.194 ppbv m
RT: 12.91 min Scan# 3204
Delta R.T. 0.00 min
Lab File: VL039617.D
Acq: 7 Sep 2022 13:31

Tgt Ion:104 Resp: 22759
Ion Ratio Lower Upper
104 100
78 56.8 41.2 61.8
103 48.5 38.7 58.1





#62

Isopropylbenzene

Concen: 0.041 ppbv m

RT: 14.03

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Sep 2022 13:31

Tot Ion:1

Ion Ratio

105 100

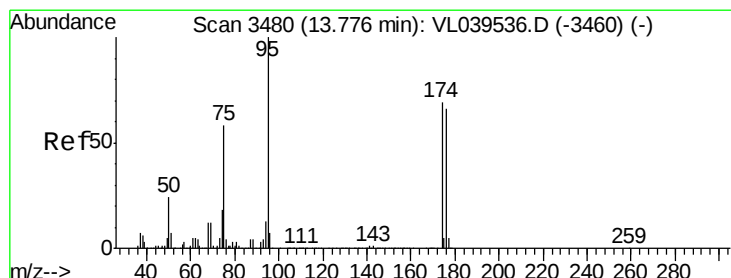
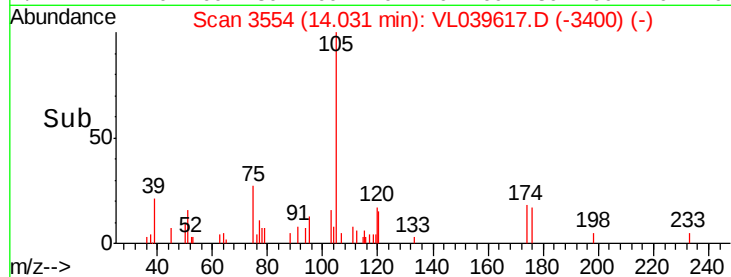
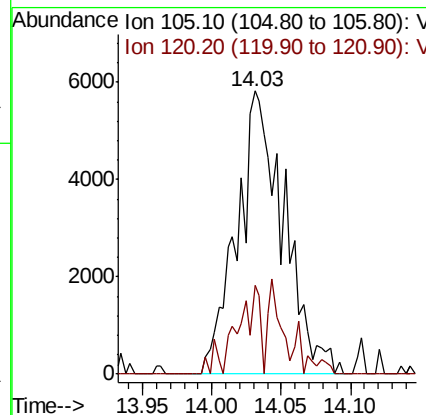
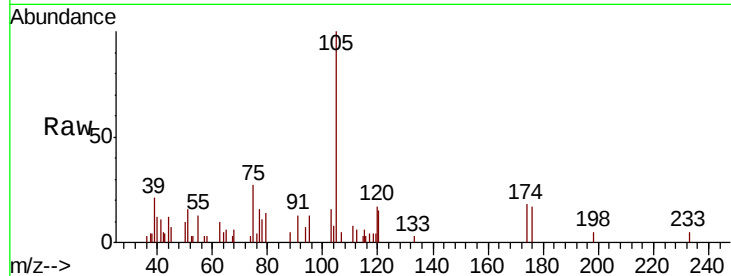
120 0.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/08/2022

Supervised By :Mahesh Dadoda 09/08/2022



#68

1-Bromo-4-Fluorobenzene

Concen: 10.004 ppbv

RT: 13.78 min Scan# 3475

Delta R.T. 0.00 min

Lab File: VL039617.D

Acq: 7 Sep 2022 13:31

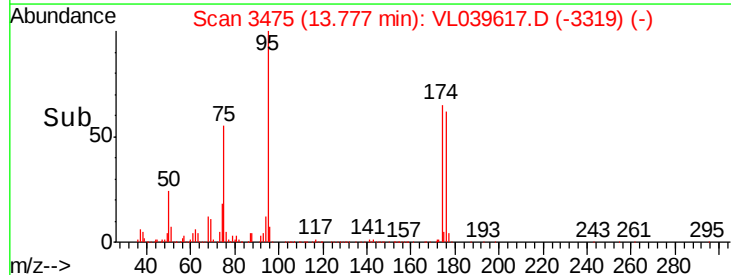
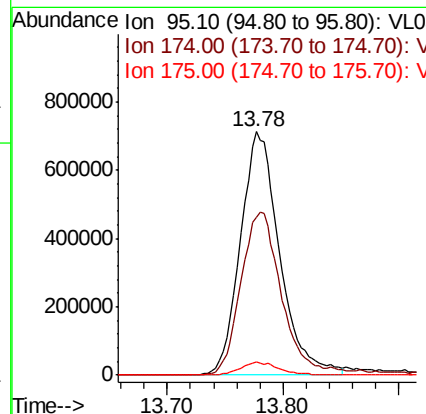
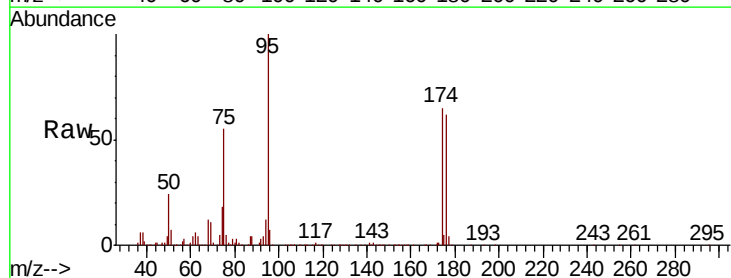
Tgt Ion: 95 Resp: 1679092

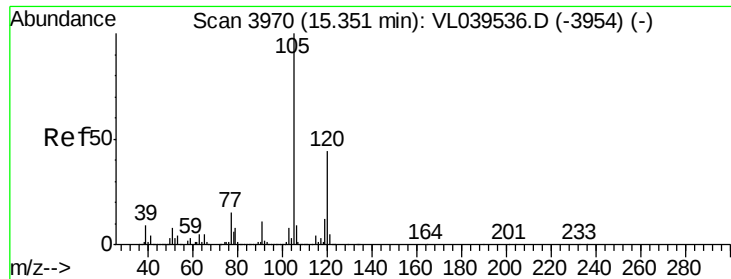
Ion Ratio Lower Upper

95 100

174 72.5 55.9 83.9

175 5.3 4.2 6.4



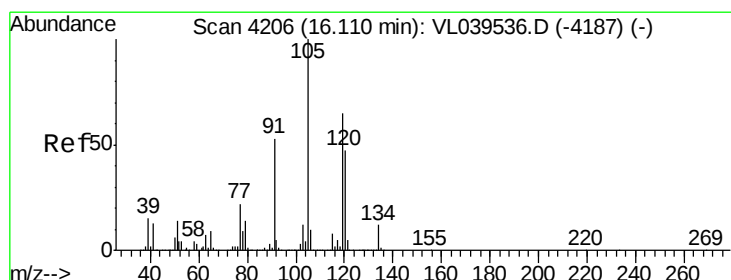
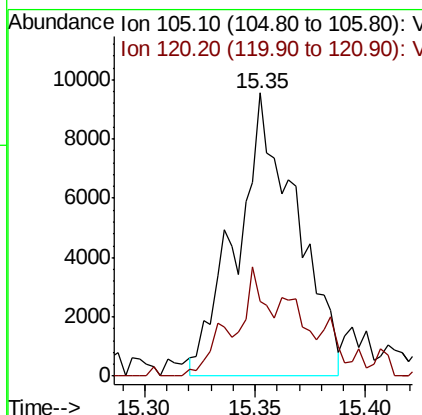
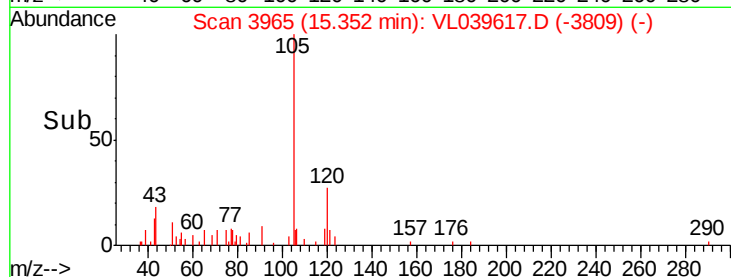
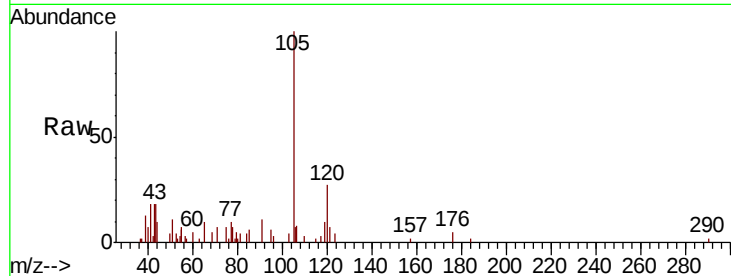


#73
 1,3,5-Trimethylbenzene
 Concen: 0.077 ppbv m
 RT: 15.35
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 7 Sep 2022 13:31

Tot Ion:1
 Ion Rati
 105 100
 120 26.

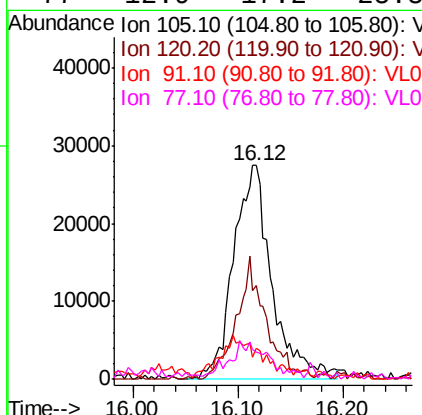
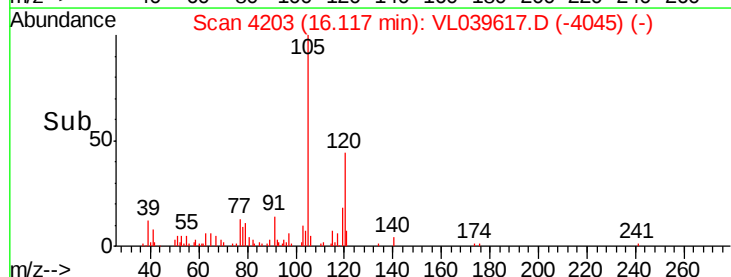
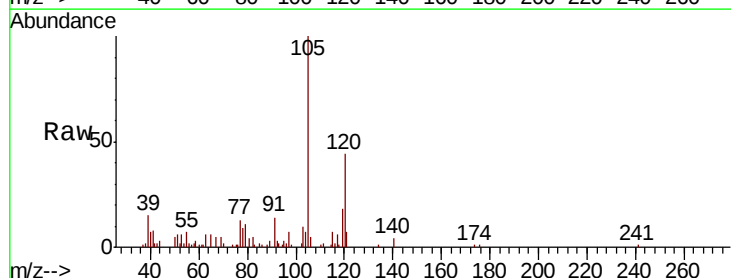
Manual Integrations
 APPROVED

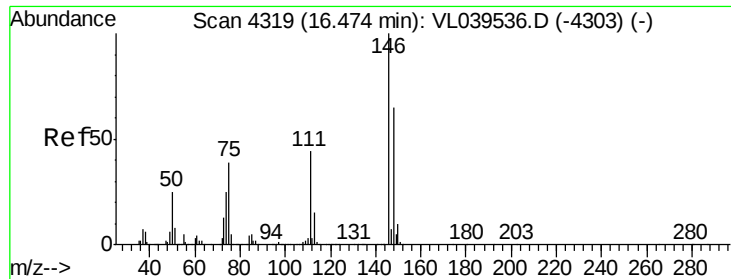
Reviewed By :Semsettin Yesilyurt 09/08/2022
 Supervised By :Mahesh Dadoda 09/08/2022



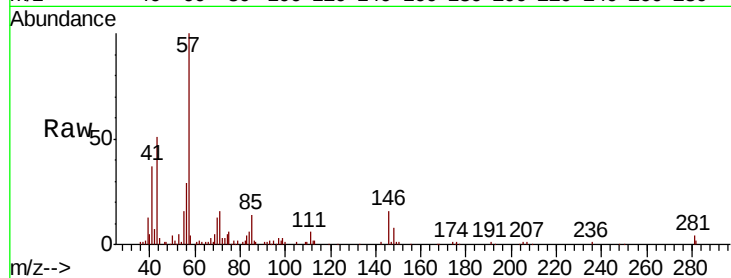
#74
 1,2,4-Trimethylbenzene
 Concen: 0.265 ppbv m
 RT: 16.12 min Scan# 4203
 Delta R.T. 0.01 min
 Lab File: VL039617.D
 Acq: 7 Sep 2022 13:31

Tgt Ion:105 Resp: 69536
 Ion Ratio Lower Upper
 105 100
 120 43.7 39.5 59.3
 91 14.3 39.2 58.8#
 77 12.9 17.2 25.8#





#76
 1,4-Dichlorobenzene
 Concen: 0.121 ppbv m
 RT: 16.48
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 7 Sep 2022 13:31



Tot Ion:1
 Ion Rati
 146 100
 111 0.
 148 64.

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