

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090722\
 Data File : VL039618.D
 Acq On : 7 Sep 2022 14:12
 Operator : SY/AP
 Sample : N4494-02DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 IA-1DUP

Manual Integrations
 APPROVED

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

Quant Time: Sep 08 05:44:26 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	5.20	49	917148	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	6.66	114	2330386	10.00	ppbv	0.00
55) Chlorobenzene-d5	11.47	117	2219800	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	13.78	95	1620422	9.68	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.80%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	2.75	85	20412	0.167	ppbv	95
3) Chlorodifluoromethane	2.67	51	2967018	27.153	ppbv #	58
4) Chloromethane	2.83	50	36150	0.549	ppbv	98
9) Propene	2.73	41	99995m	2.000	ppbv	
10) Heptane	7.58	43	56020m	0.484	ppbv	
11) Trichlorofluoromethane	3.58	101	31383	0.234	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.09	101	8348m	0.084	ppbv	
13) Ethanol	3.27	45	7125379	1982.930	ppbv	71
15) Acetone	3.48	43	4804183	46.762	ppbv	98
20) Methylene Chloride	3.95	84	276228	6.618	ppbv	94
25) Ethyl Acetate	5.22	43	269669	1.227	ppbv	98
26) Hexane	5.23	57	157368	1.754	ppbv #	78
29) Chloroform	5.29	83	58069m	0.414	ppbv	
34) 2-Butanone	4.81	43	93528m	0.807	ppbv	
35) Carbon Tetrachloride	6.50	117	8826	0.070	ppbv	93
36) Benzene	6.38	78	60869	0.343	ppbv	96
44) 2,2,4-Trimethylpentane	7.34	57	91701m	0.306	ppbv	
53) Toluene	9.23	91	281276	1.415	ppbv	99
58) Ethyl Benzene	12.09	91	53892m	0.211	ppbv	
59) m/p-Xylene	12.35	91	154161m	0.674	ppbv	
60) o-Xylene	13.06	91	62888m	0.286	ppbv	
61) Styrene	12.90	104	18582m	0.159	ppbv	
74) 1,2,4-Trimethylbenzene	16.12	105	56041m	0.214	ppbv	

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

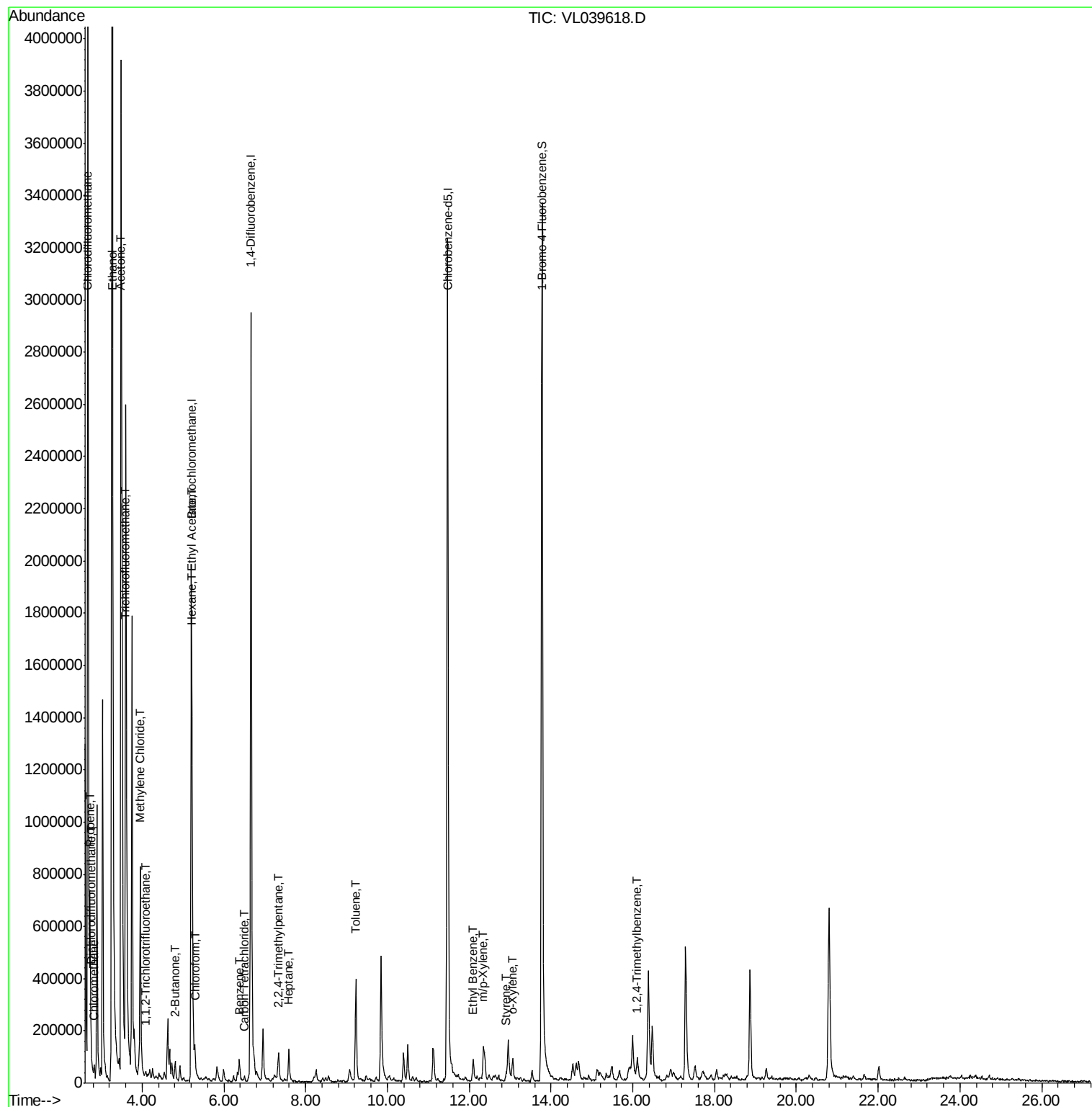
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL090722\
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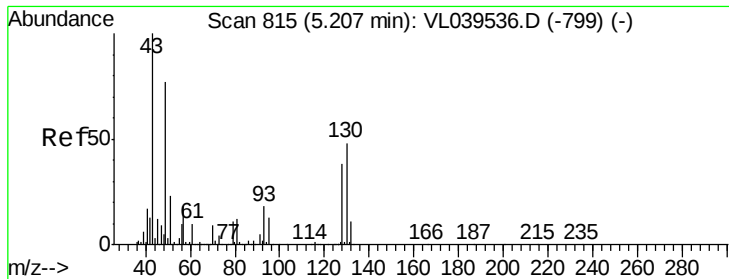
Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP

Quant Time: Sep 08 05:44:26 2022
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
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Supervised By :Mahesh Dadoda 09/08/2022





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.20 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 7 Sep 2022 14:12

Tot Ion:

Ion Ratio

49 100

128 48.

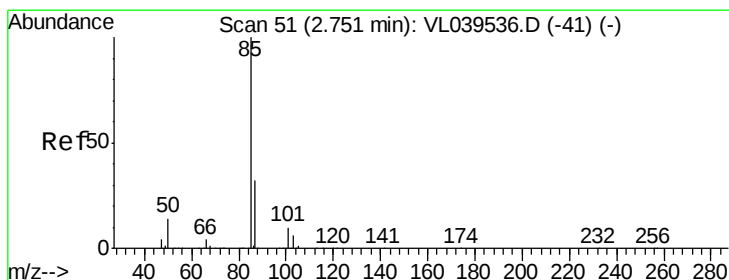
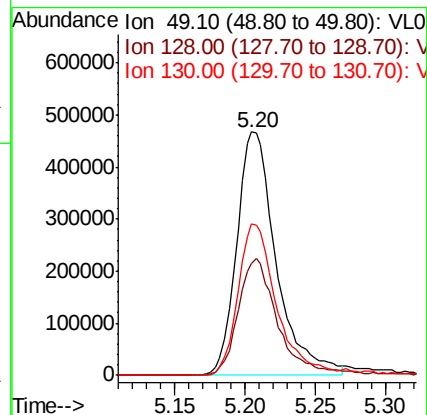
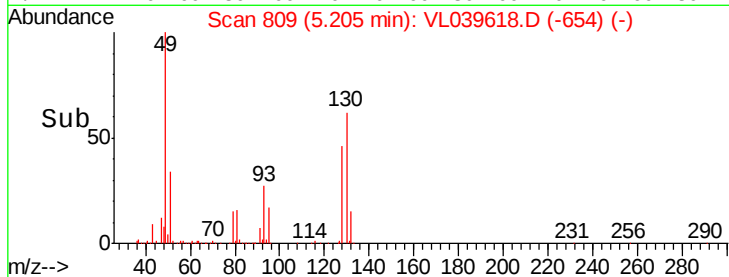
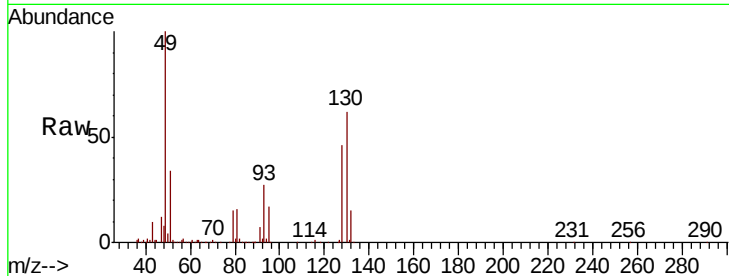
130 63.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/08/2022

Supervised By :Mahesh Dadoda 09/08/2022



#2

Dichlorodifluoromethane

Concen: 0.167 ppbv

RT: 2.75 min Scan# 47

Delta R.T. 0.00 min

Lab File: VL039618.D

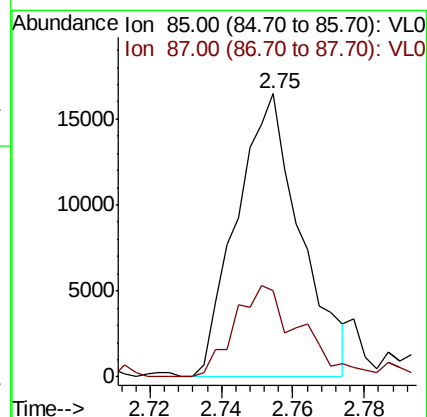
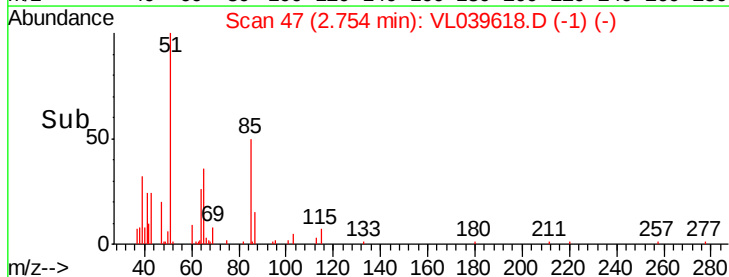
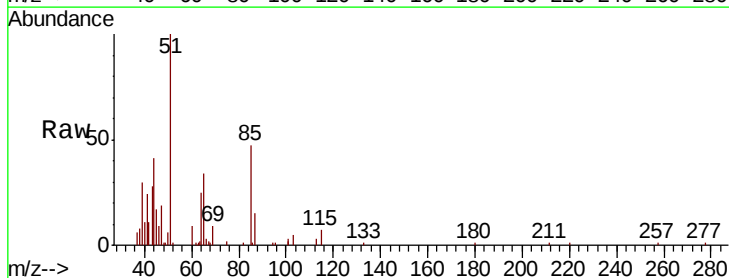
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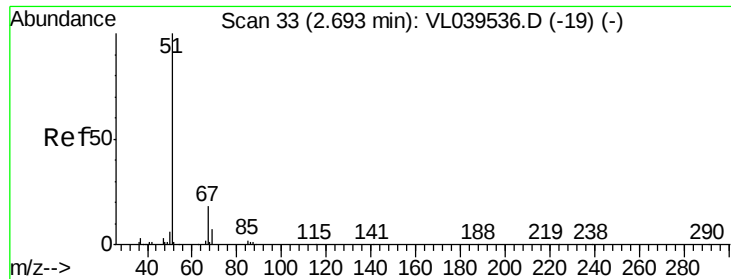
Tgt Ion: 85 Resp: 20412

Ion Ratio Lower Upper

85 100

87 30.7 26.7 40.1



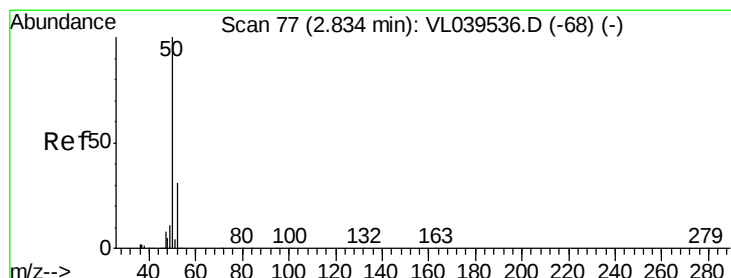
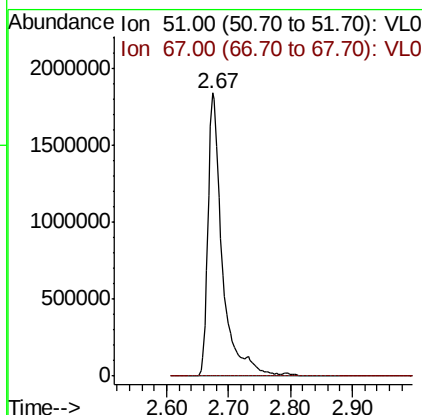
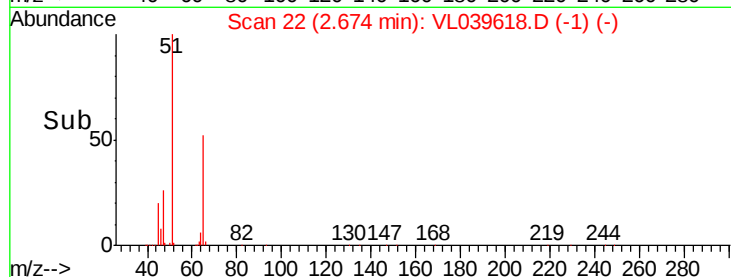
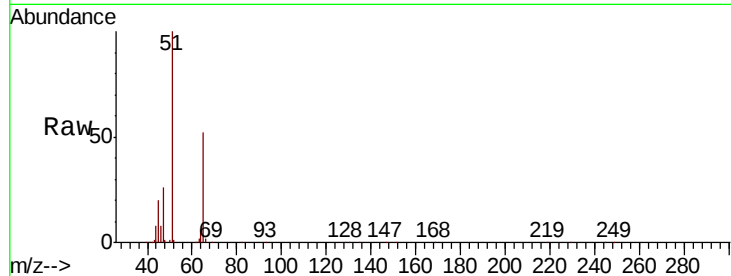


#3
Chlorodifluoromethane
Concen: 27.153 ppbv
RT: 2.67
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Sep 2022 14:12

Tot Ion:
Ion Ratio
51 100
67 0.

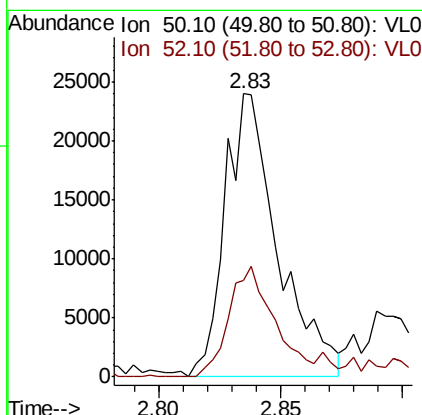
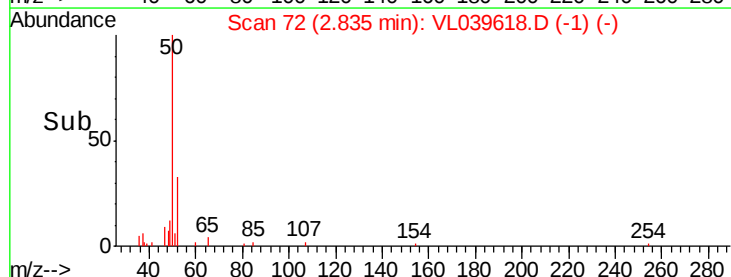
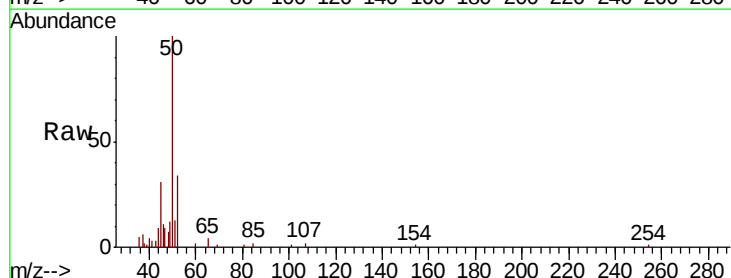
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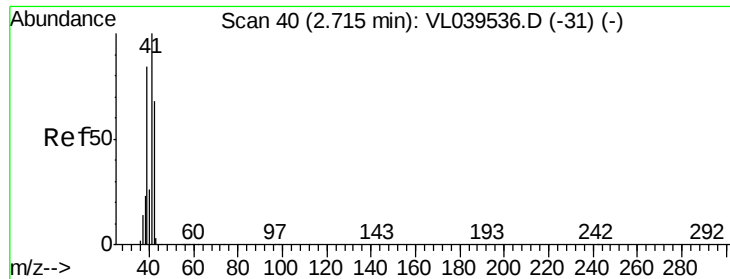
Reviewed By :Semsettin Yesilyurt 09/08/2022
Supervised By :Mahesh Dadoda 09/08/2022



#4
Chloromethane
Concen: 0.549 ppbv
RT: 2.83 min Scan# 72
Delta R.T. 0.00 min
Lab File: VL039618.D
Acq: 7 Sep 2022 14:12

Tgt Ion: 50 Resp: 36150
Ion Ratio Lower Upper
50 100
52 34.1 26.5 39.7





#9

Propene

Concen: 2.000 ppbv m

RT: 2.73 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 7 Sep 2022 14:12

Tot Ion:

Ion Ratio

41 100

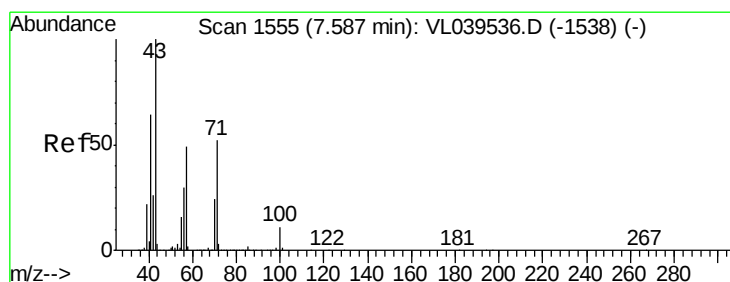
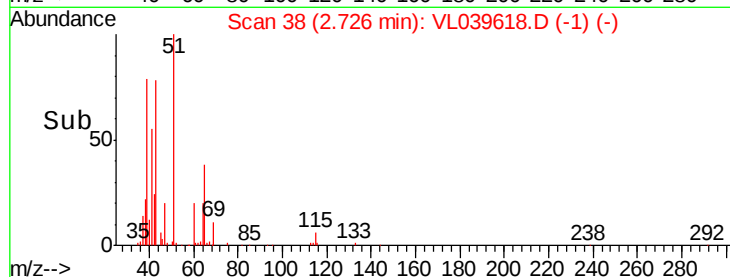
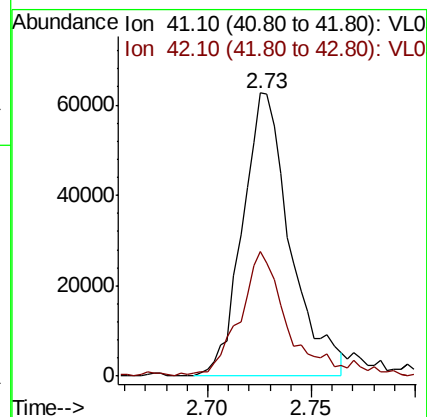
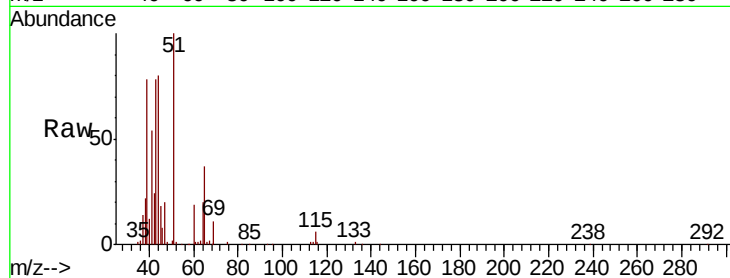
42 217.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/08/2022

Supervised By :Mahesh Dadoda 09/08/2022



#10

Heptane

Concen: 0.484 ppbv m

RT: 7.58 min Scan# 1549

Delta R.T. -0.00 min

Lab File: VL039618.D

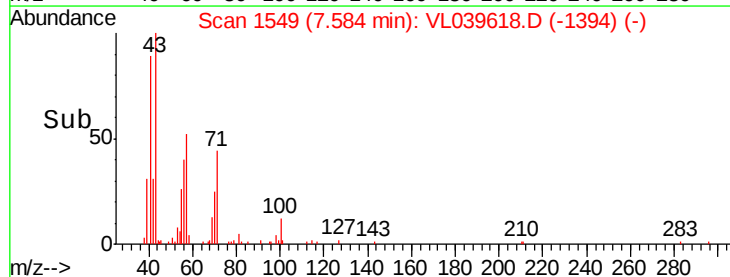
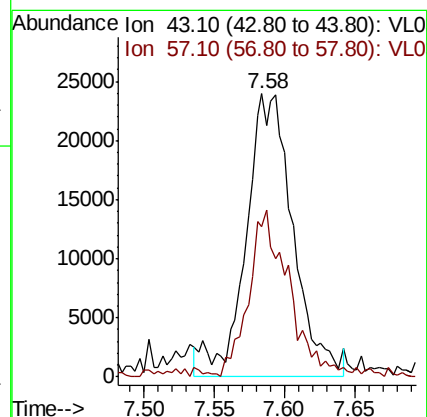
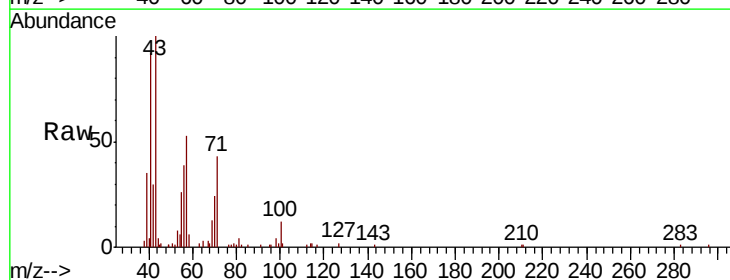
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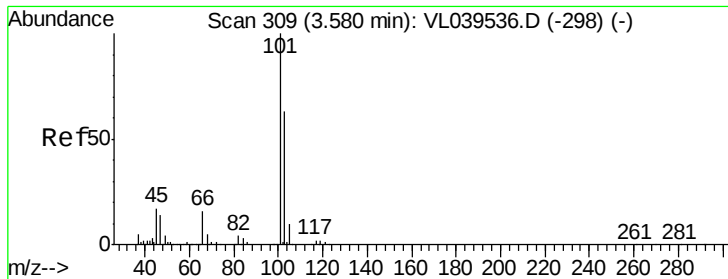
Tgt Ion: 43 Resp: 56020

Ion Ratio Lower Upper

43 100

57 54.3 40.5 60.7



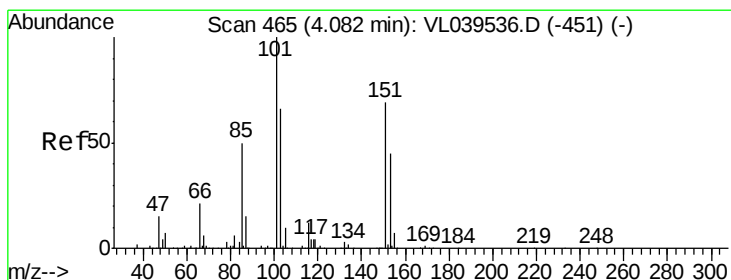
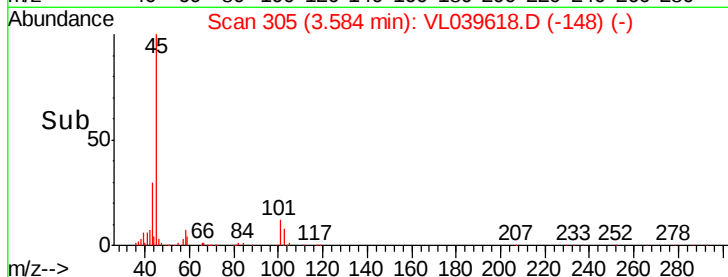
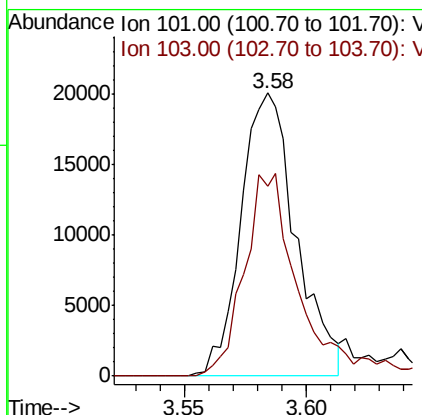
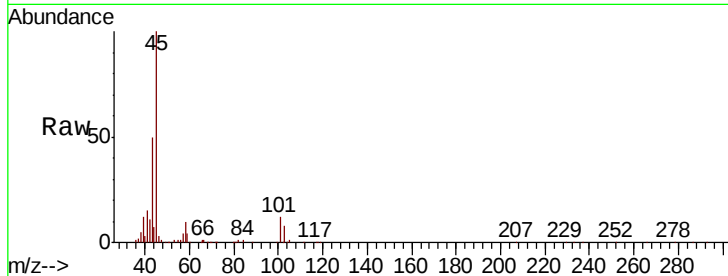


#11
 Trichlorofluoromethane
 Concen: 0.234 ppbv
 RT: 3.58
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 7 Sep 2022 14:12

Tot Ion:1
 Ion Rati
 101 100
 103 67.

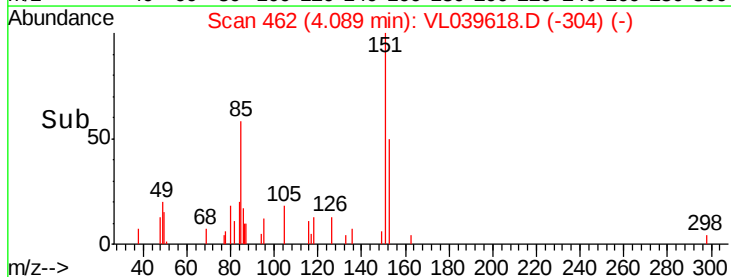
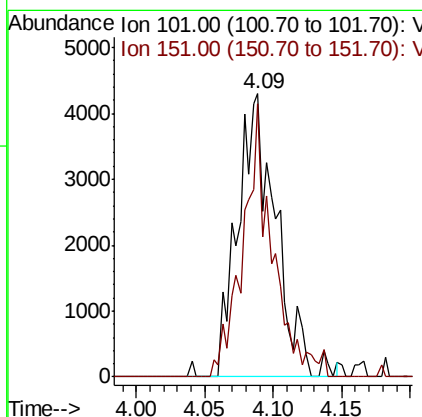
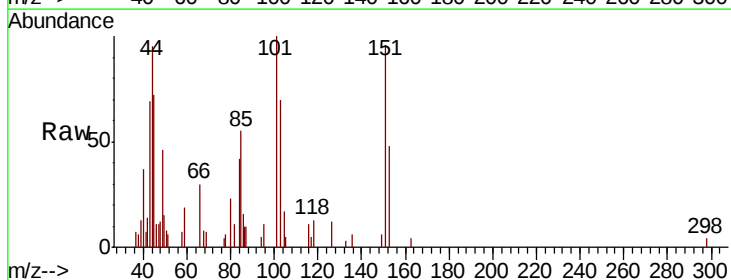
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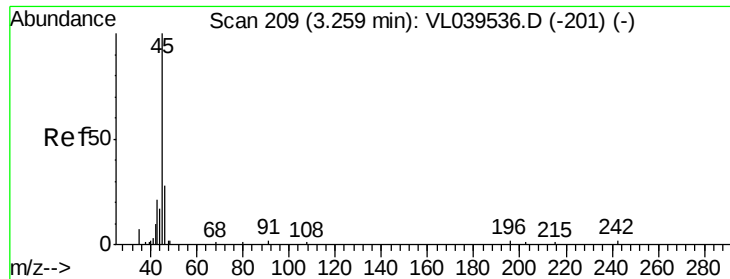
Reviewed By :Semsettin Yesilyurt 09/08/2022
 Supervised By :Mahesh Dadoda 09/08/2022



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.084 ppbv m
 RT: 4.09 min Scan# 462
 Delta R.T. 0.01 min
 Lab File: VL039618.D
 Acq: 7 Sep 2022 14:12

Tgt Ion:101 Resp: 8348
 Ion Ratio Lower Upper
 101 100
 151 0.0 58.9 88.3#



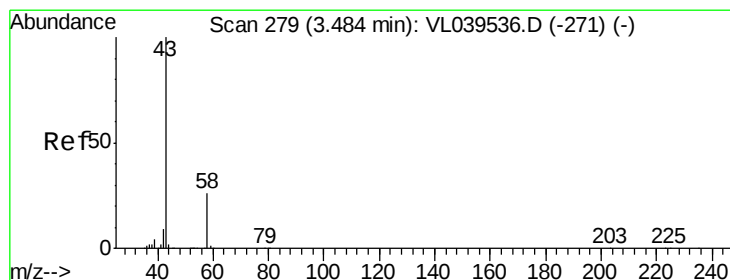
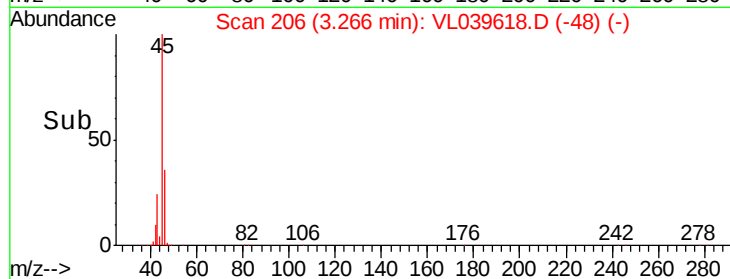
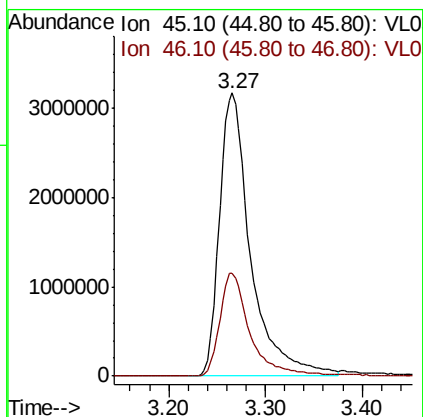
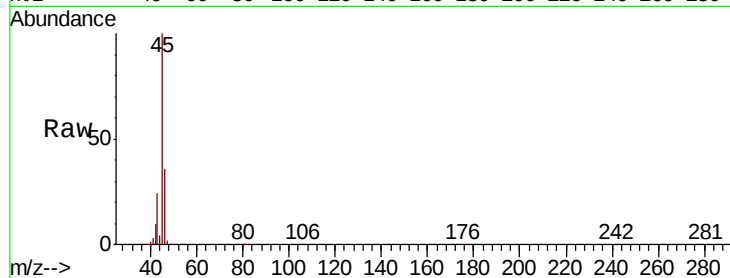


#13
Ethanol
Concen: 1982.930 ppbv
RT: 3.27
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Sep 2022 14:12

Tot Ion:
Ion Ratio
45 100
46 36.

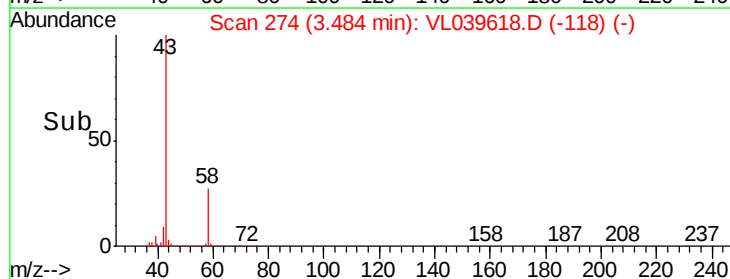
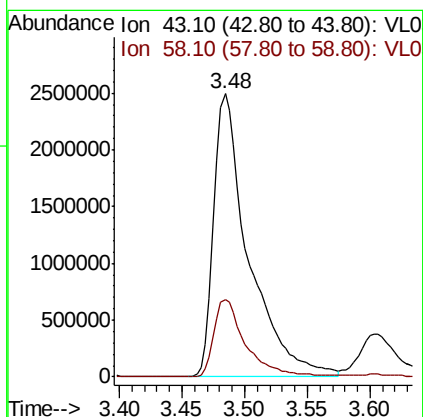
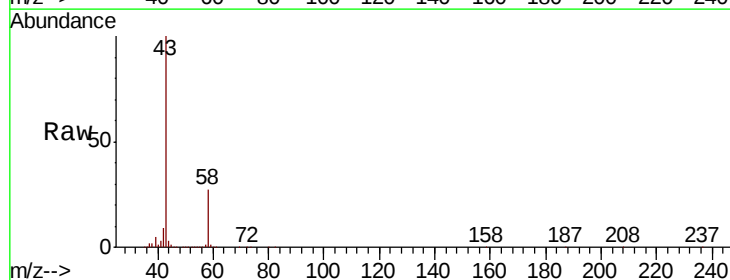
Manual Integrations
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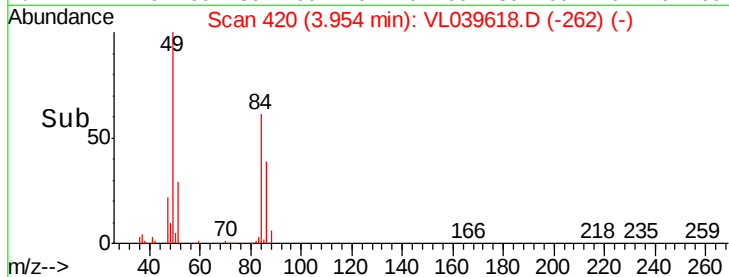
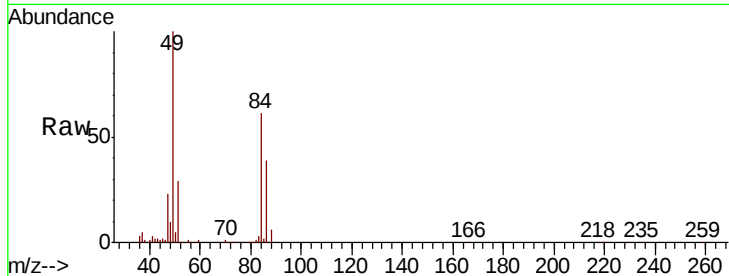
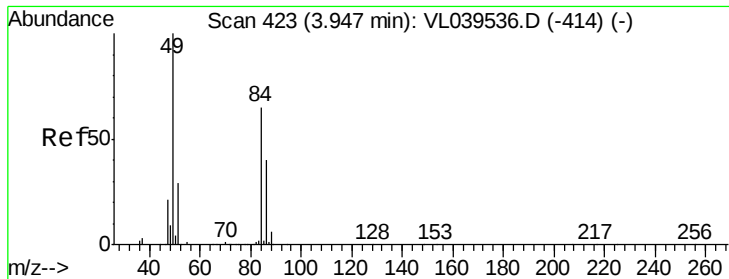
Reviewed By :Semsettin Yesilyurt 09/08/2022
Supervised By :Mahesh Dadoda 09/08/2022



#15
Acetone
Concen: 46.762 ppbv
RT: 3.48 min Scan# 274
Delta R.T. 0.00 min
Lab File: VL039618.D
Acq: 7 Sep 2022 14:12

Tgt Ion: 43 Resp: 4804183
Ion Ratio Lower Upper
43 100
58 25.3 21.0 31.6



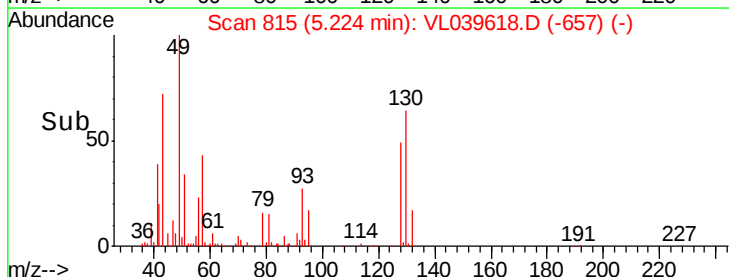
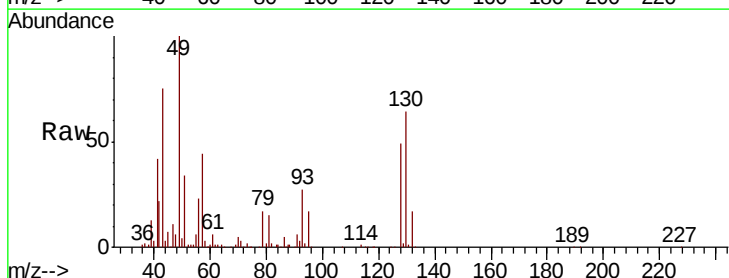
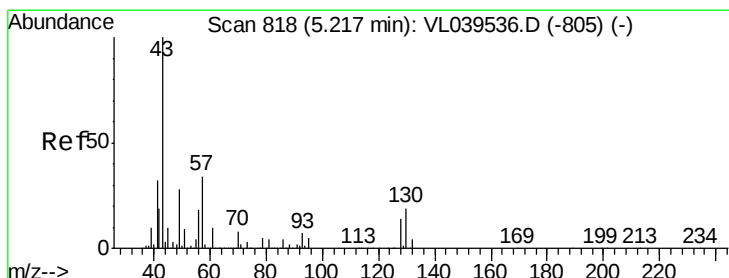
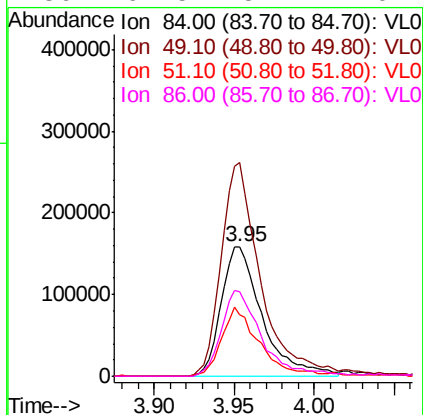


#20
Methvlene Chloride
Concen: 6.618 ppbv
RT: 3.95
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 7 Sep 2022 14:12

Tot Ion:
Ion Ratio
84 100
49 164.
51 47.
86 64.5 51.1 76.7

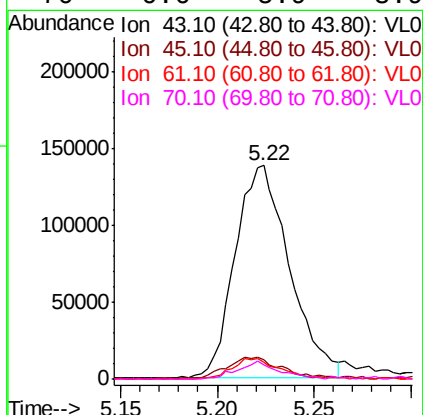
Manual Integrations
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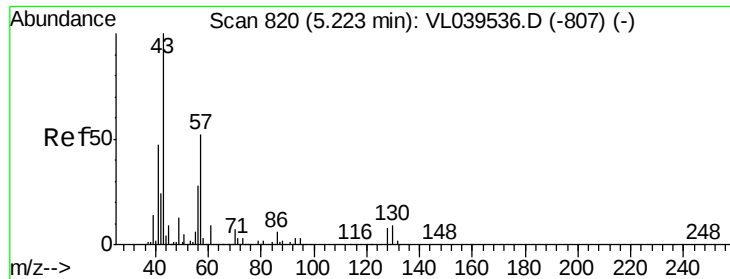
Reviewed By :Semsettin Yesilyurt 09/08/2022
Supervised By :Mahesh Dadoda 09/08/2022



#25
Ethyl Acetate
Concen: 1.227 ppbv
RT: 5.22 min Scan# 815
Delta R.T. 0.01 min
Lab File: VL039618.D
Acq: 7 Sep 2022 14:12

Tgt Ion: 43 Resp: 269669
Ion Ratio Lower Upper
43 100
45 10.4 8.2 12.4
61 9.0 8.3 12.5
70 6.6 5.9 8.9



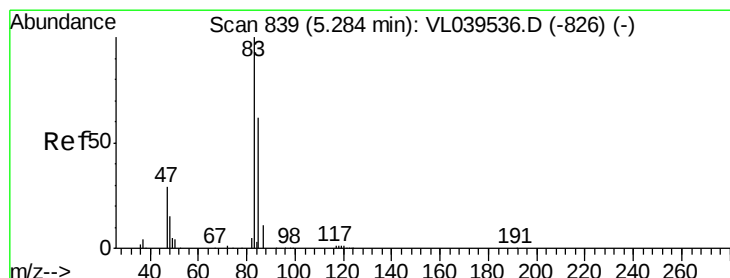
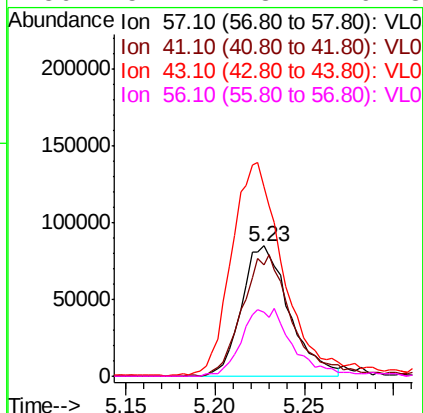
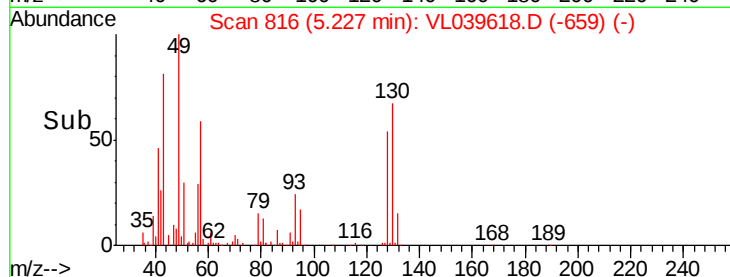
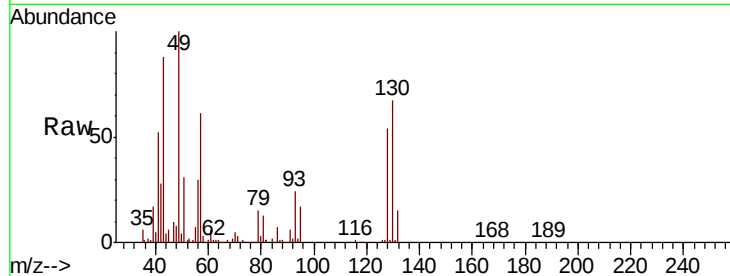


#26
Hexane
Concen: 1.754 ppbv
RT: 5.23
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Sep 2022 14:12

Tot Ion:
Ion Ratio
57 100
41 101.
43 184.
56 57.4 43.2 64.8

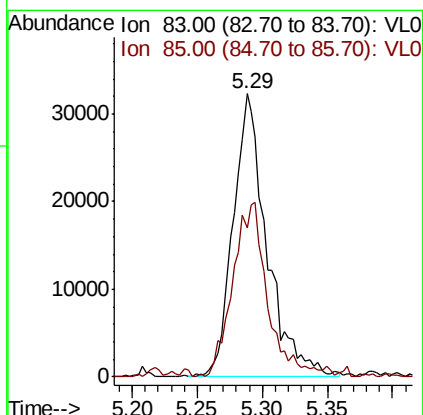
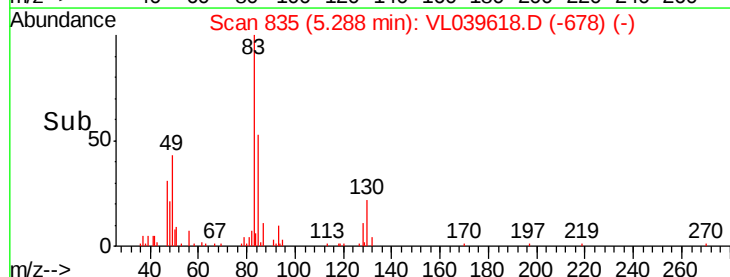
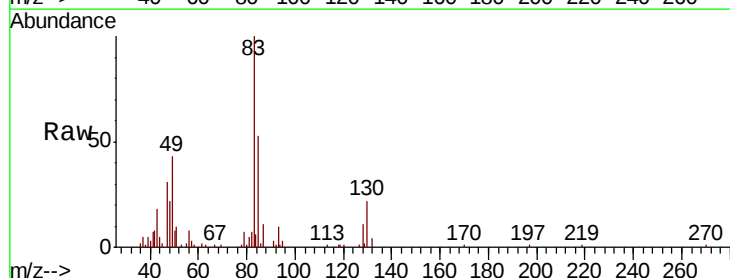
Manual Integrations
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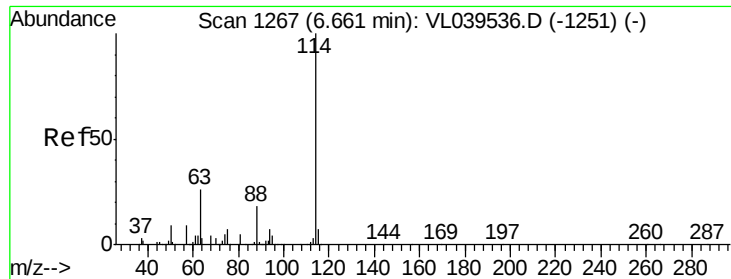
Reviewed By :Semsettin Yesilyurt 09/08/2022
Supervised By :Mahesh Dadoda 09/08/2022



#29
Chloroform
Concen: 0.414 ppbv m
RT: 5.29 min Scan# 835
Delta R.T. 0.00 min
Lab File: VL039618.D
Acq: 7 Sep 2022 14:12

Tgt Ion: 83 Resp: 58069
Ion Ratio Lower Upper
83 100
85 52.6 52.8 79.2#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.66

Instrument: MSVOA_L

Delta R.T.

Lab File: ClientSampleId:

Acq: 7 Sep 2022 14:12

Tot Ion:1

Ion Rati

114 100

63 24.

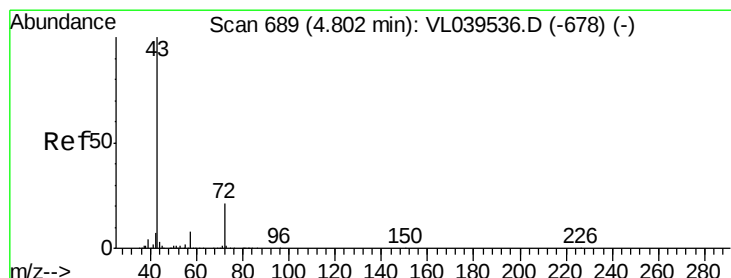
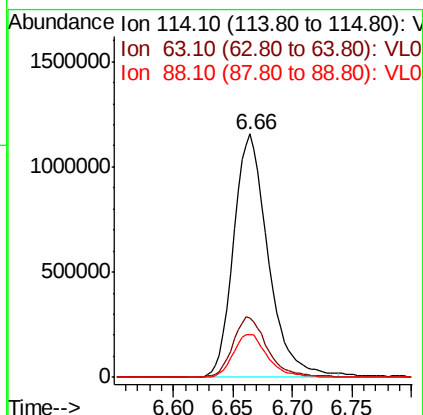
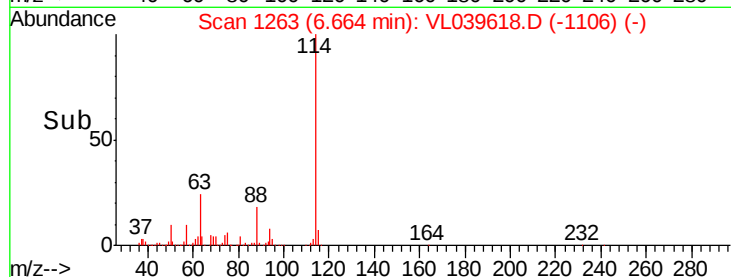
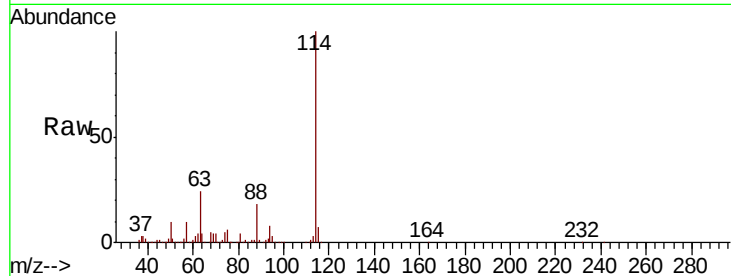
88 17.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/08/2022

Supervised By :Mahesh Dadoda 09/08/2022



#34

2-Butanone

Concen: 0.807 ppbv m

RT: 4.81 min Scan# 686

Delta R.T. 0.01 min

Lab File: VL039618.D

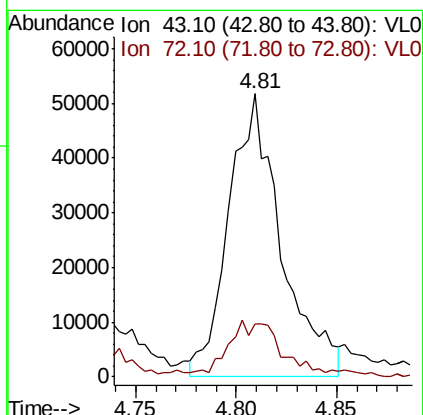
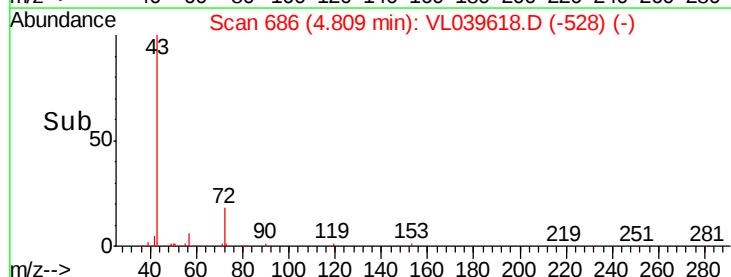
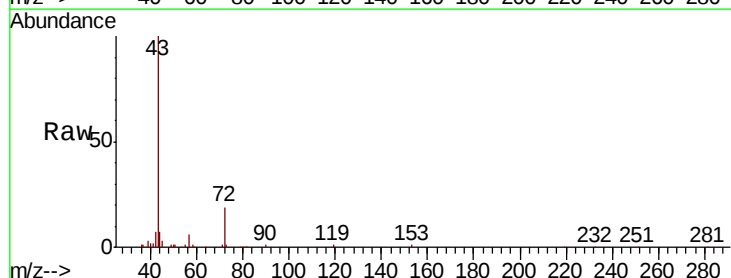
Acq: 7 Sep 2022 14:12

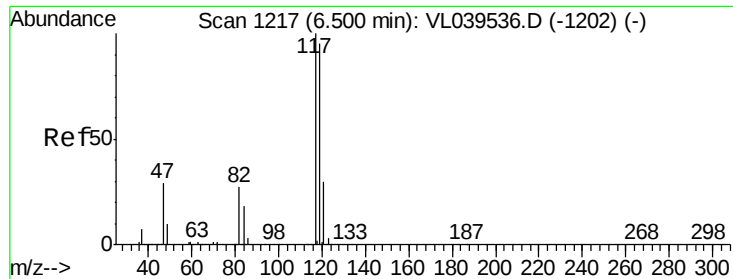
Tgt Ion: 43 Resp: 93528

Ion Ratio Lower Upper

43 100

72 22.3 17.9 26.9



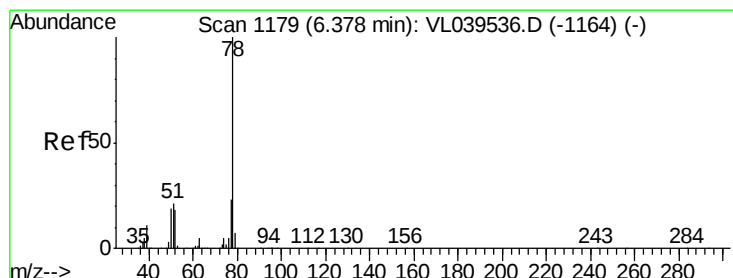
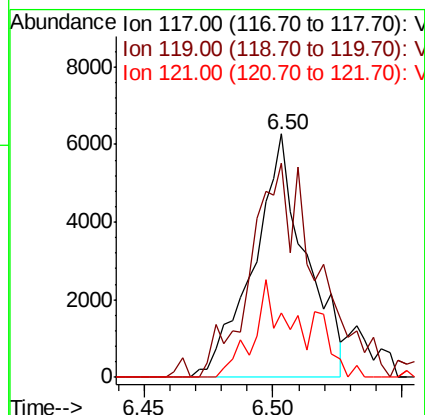
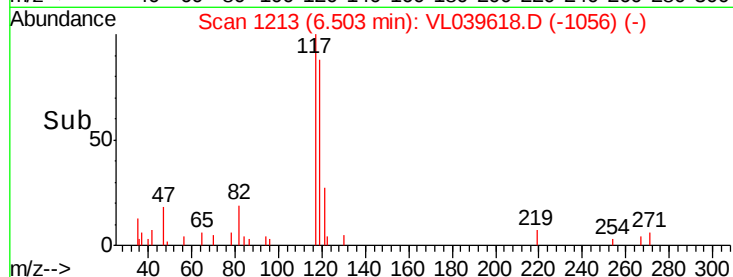
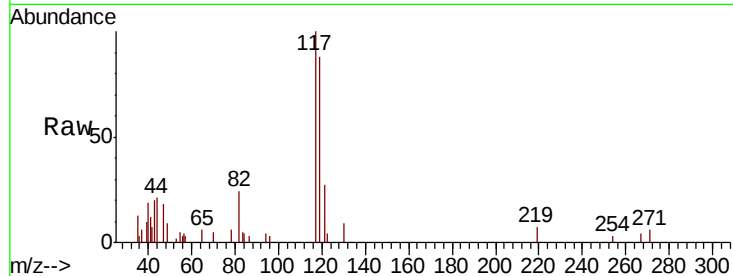


#35
Carbon Tetrachloride
Concen: 0.070 ppbv
RT: 6.50
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
Acq: 7 Sep 2022 14:12

Tot Ion:1
Ion Rati
117 100
119 88.
121 26.

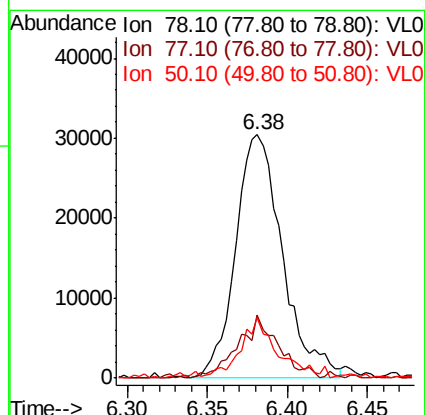
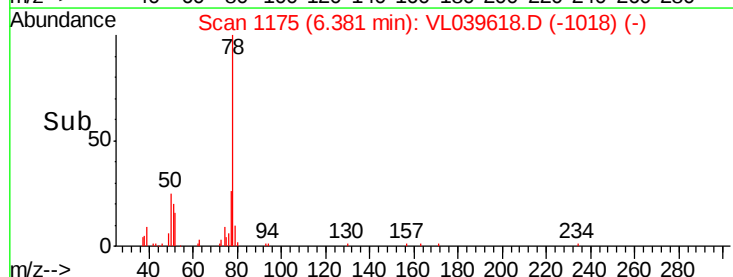
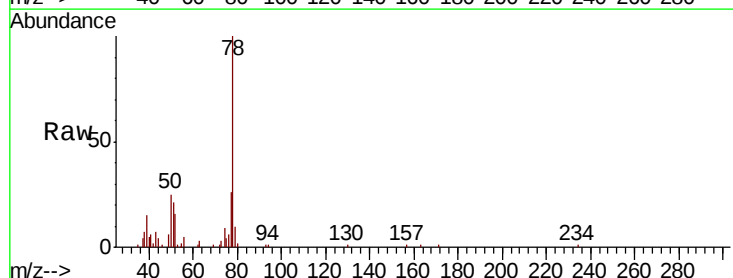
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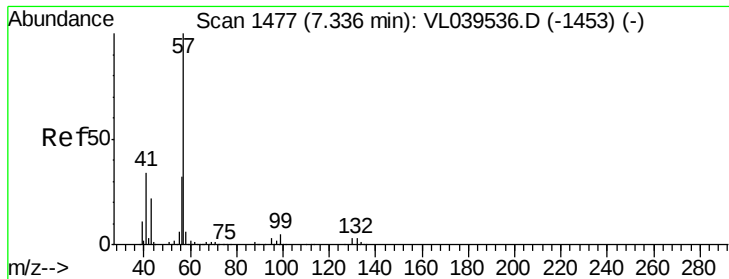
Reviewed By :Semsettin Yesilyurt 09/08/2022
Supervised By :Mahesh Dadoda 09/08/2022



#36
Benzene
Concen: 0.343 ppbv
RT: 6.38 min Scan# 1175
Delta R.T. 0.00 min
Lab File: VL039618.D
Acq: 7 Sep 2022 14:12

Tgt Ion: 78 Resp: 60869
Ion Ratio Lower Upper
78 100
77 26.2 20.3 30.5
50 22.6 15.5 23.3



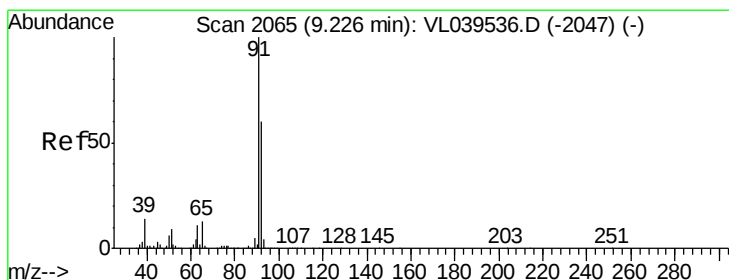
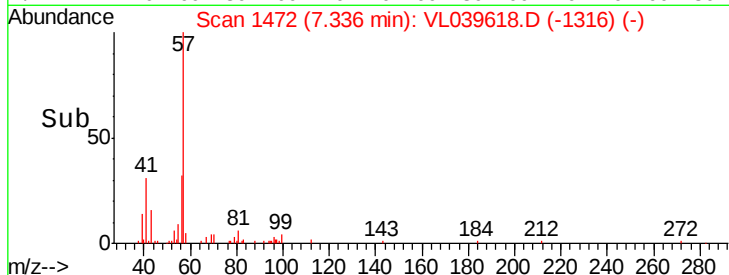
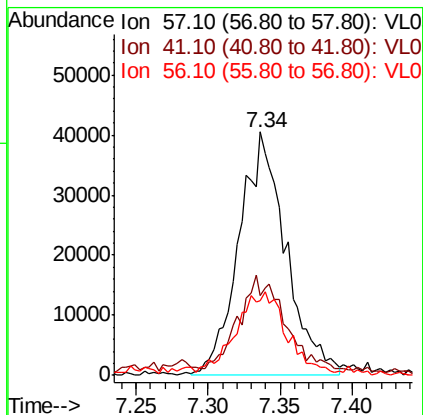
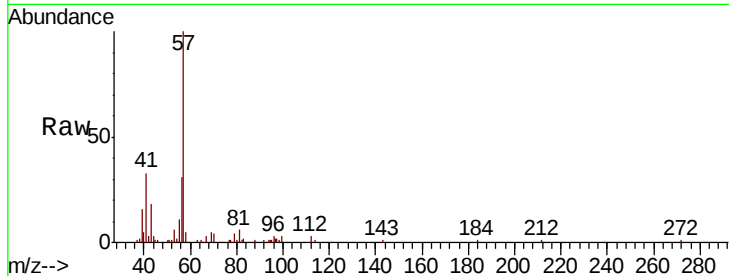


#44
 2,2,4-Trimethylpentane
 Concen: 0.306 ppbv m
 RT: 7.34
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 7 Sep 2022 14:12

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

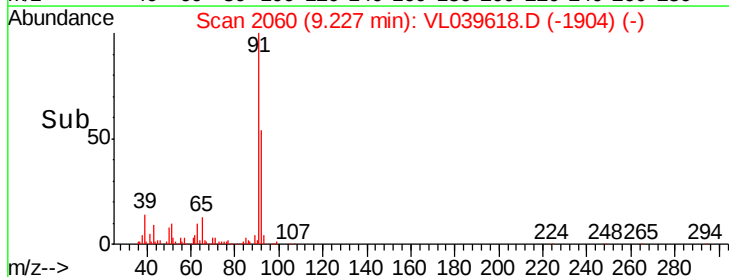
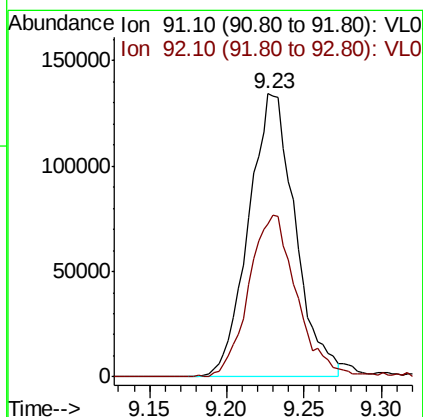
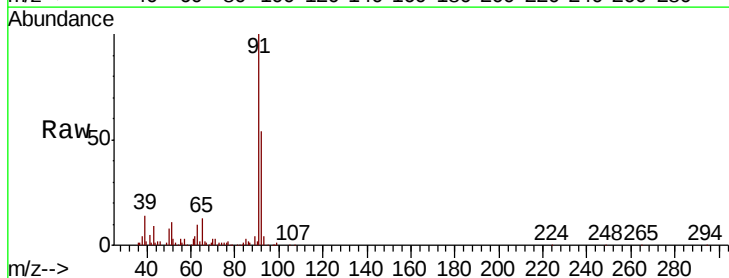
Manual Integrations
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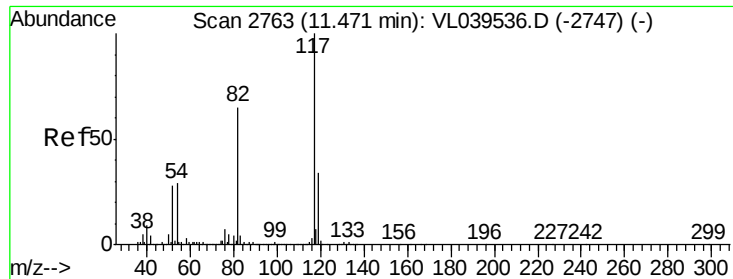
Reviewed By :Semsettin Yesilyurt 09/08/2022
 Supervised By :Mahesh Dadoda 09/08/2022



#53
 Toluene
 Concen: 1.415 ppbv
 RT: 9.23 min Scan# 2060
 Delta R.T. 0.00 min
 Lab File: VL039618.D
 Acq: 7 Sep 2022 14:12

Tgt Ion: 91 Resp: 281276
 Ion Ratio Lower Upper
 91 100
 92 59.5 48.2 72.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.47

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Sep 2022 14:12

Tot Ion:1

Ion Rati

117 100

82 64.

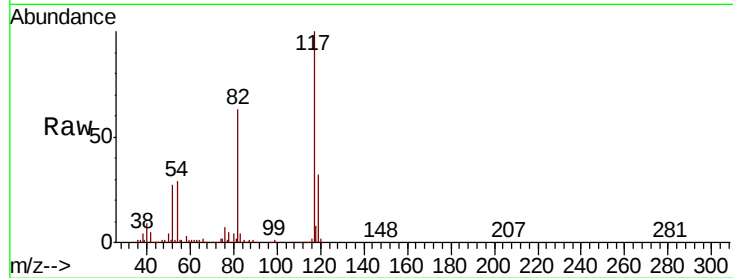
119 33.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/08/2022

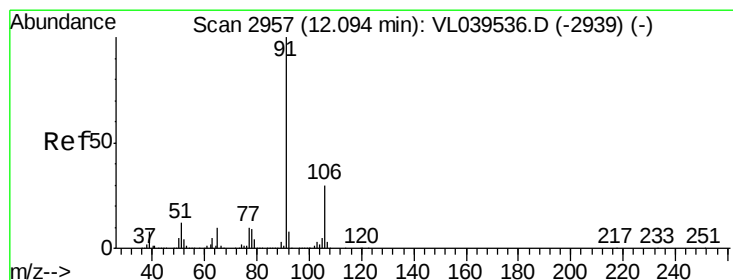
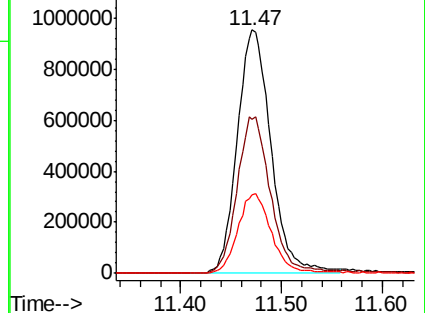
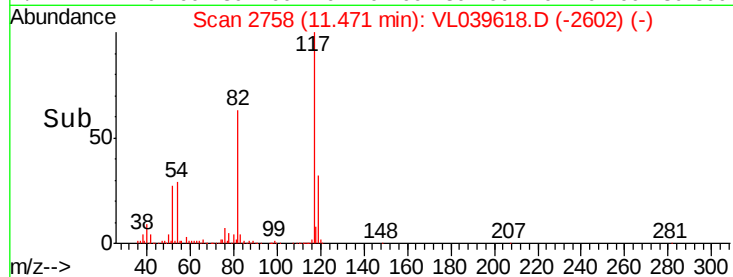
Supervised By :Mahesh Dadoda 09/08/2022



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#58

Ethyl Benzene

Concen: 0.211 ppbv m

RT: 12.09 min Scan# 2952

Delta R.T. 0.00 min

Lab File: VL039618.D

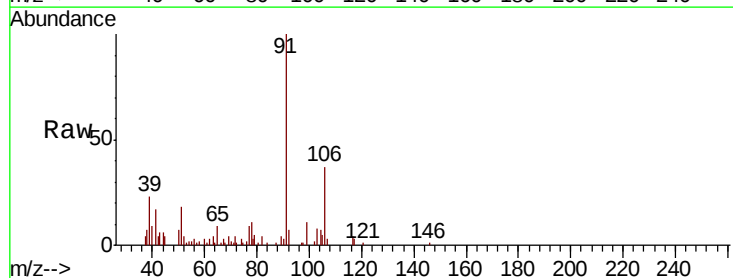
Acq: 7 Sep 2022 14:12

Tgt Ion: 91 Resp: 53892

Ion Ratio Lower Upper

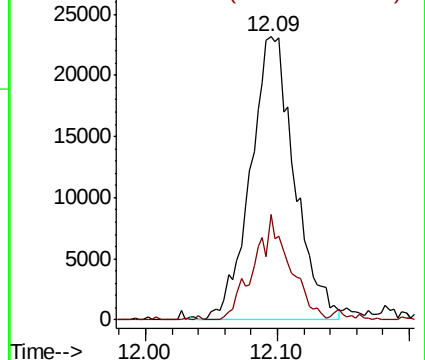
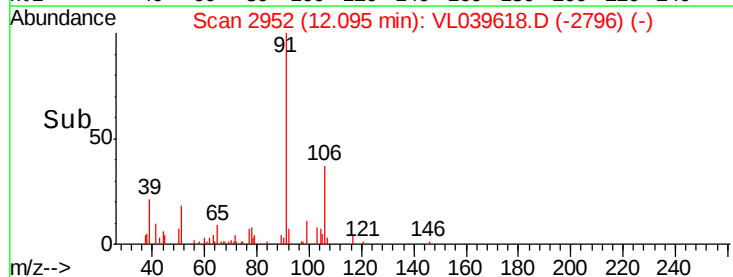
91 100

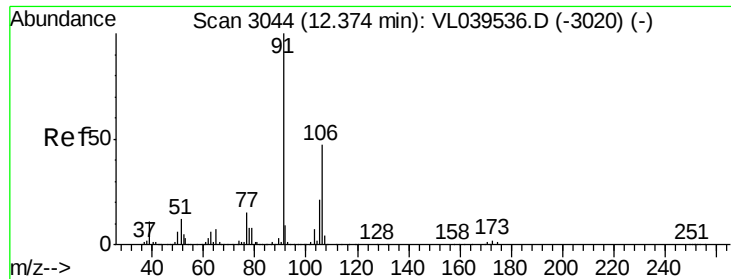
106 37.5 25.4 38.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



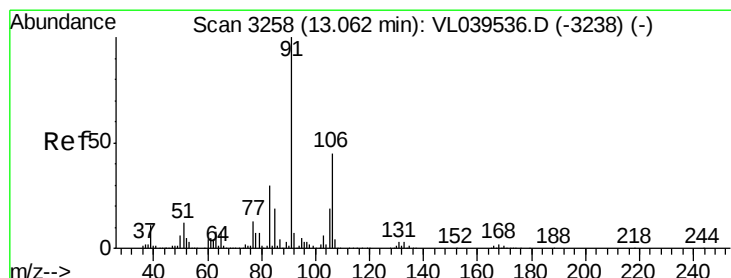
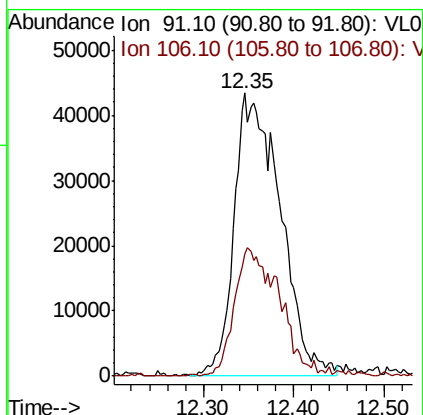
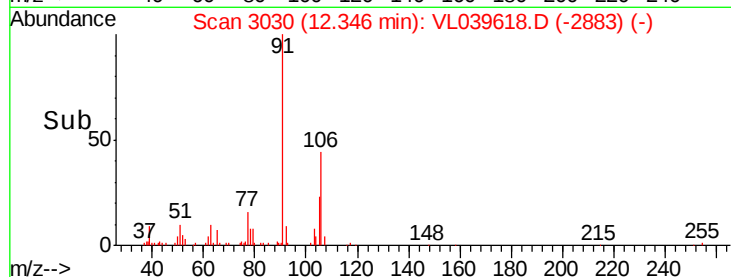
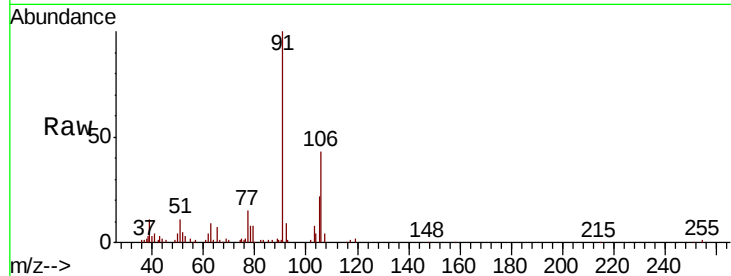


#59
m/p-Xylene
Concen: 0.674 ppbv m
RT: 12.35
Delta R.T. MSVOA_L
Lab File: ClientSampled :
Acq: 7 Sep 2022 14:12

Tot Ion:
Ion Ratio
91 100
106 0.

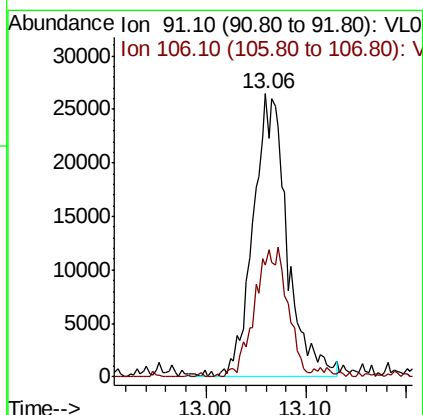
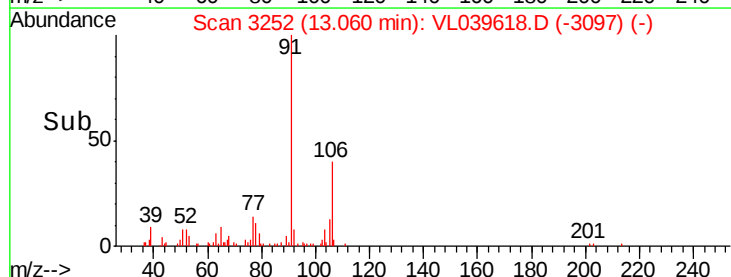
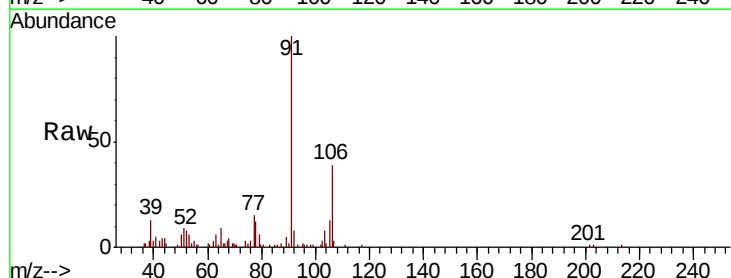
Manual Integrations
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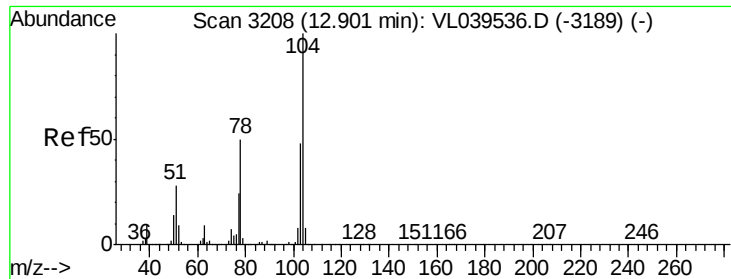
Reviewed By :Semsettin Yesilyurt 09/08/2022
Supervised By :Mahesh Dadoda 09/08/2022



#60
o-Xylene
Concen: 0.286 ppbv m
RT: 13.06 min Scan# 3252
Delta R.T. -0.00 min
Lab File: VL039618.D
Acq: 7 Sep 2022 14:12

Tgt Ion: 91 Resp: 62888
Ion Ratio Lower Upper
91 100
106 0.0 22.4 67.3#



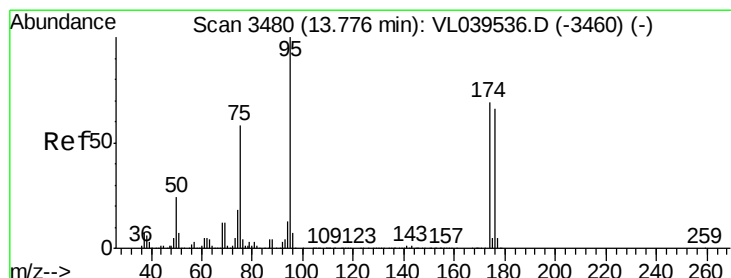
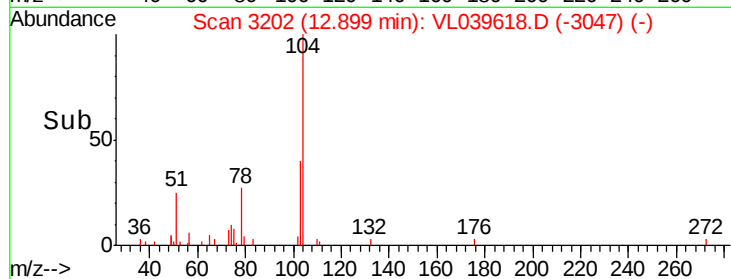
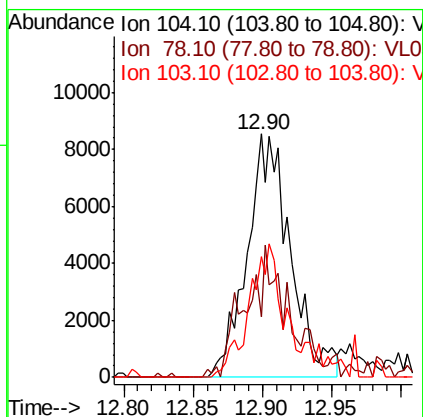
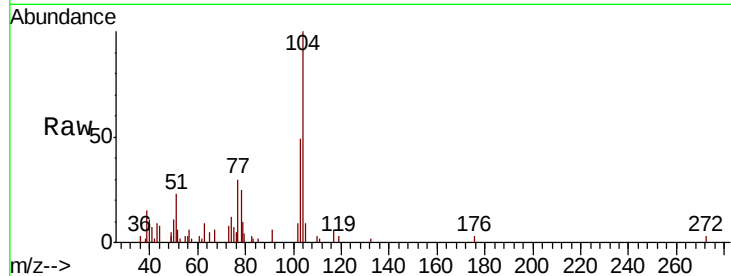


#61
Stvrene
Concen: 0.159 ppbv m
RT: 12.90
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Sep 2022 14:12

Tot Ion:1
Ion Rati
104 100
78 56.
103 52.

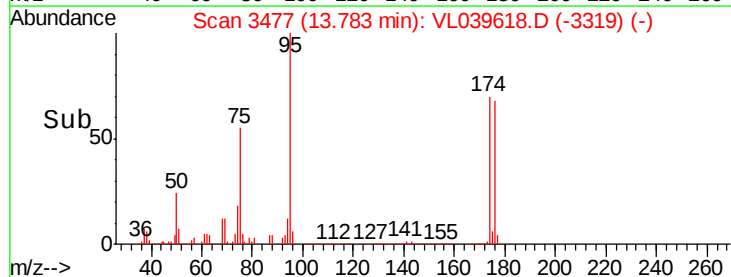
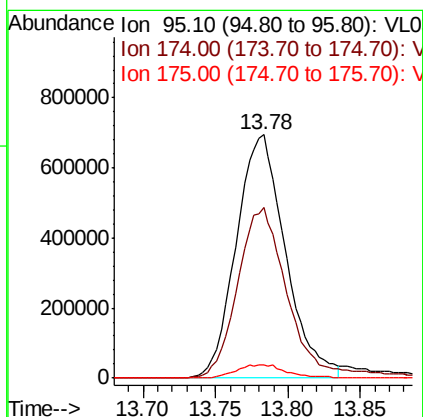
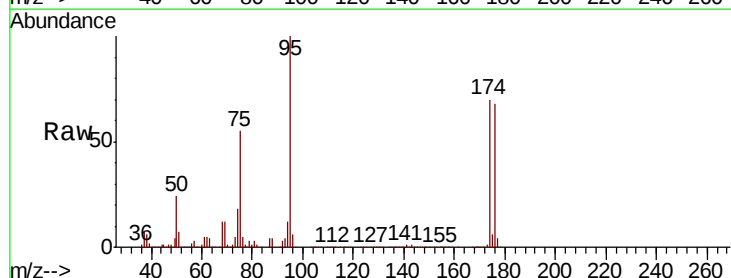
Manual Integrations
APPROVED

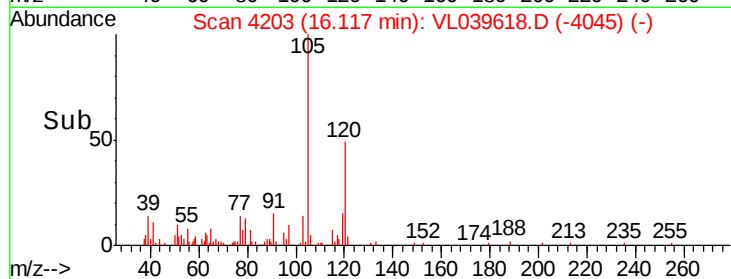
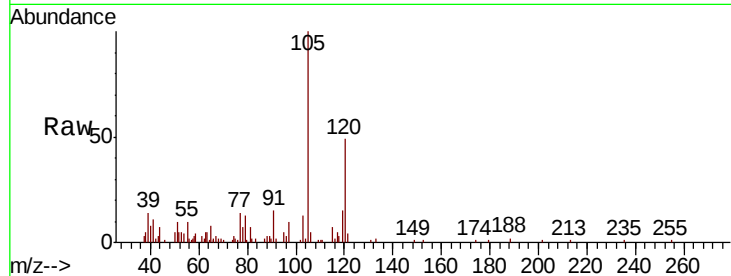
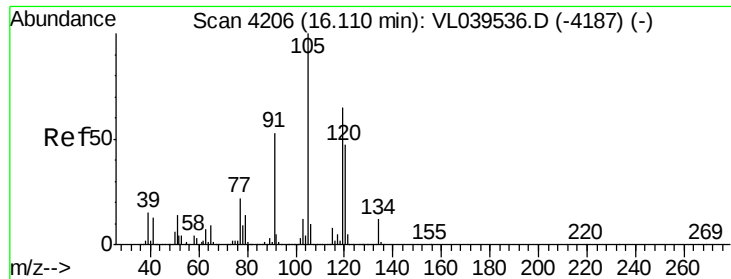
Reviewed By :Semsettin Yesilyurt 09/08/2022
Supervised By :Mahesh Dadoda 09/08/2022



#68
1-Bromo-4-Fluorobenzene
Concen: 9.676 ppbv
RT: 13.78 min Scan# 3477
Delta R.T. 0.01 min
Lab File: VL039618.D
Acq: 7 Sep 2022 14:12

Tgt Ion: 95 Resp: 1620422
Ion Ratio Lower Upper
95 100
174 73.4 55.9 83.9
175 5.7 4.2 6.4





#74
 1,2,4-Trimethylbenzene
 Concen: 0.214 ppbv m
 RT: 16.12
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 7 Sep 2022 14.12

Tot Ion:1
 Ion Rati
 105 100
 120 48.
 91 14.
 77 14.2 17.2 25.8#

Manual Integrations APPROVED

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

