

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050922\
 Data File : VL039011.D
 Acq On : 10 May 2022 6:59
 Operator : SY/AP
 Sample : N2696-06
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/17/2022
 Supervised By : Mahesh Dadoda 05/11/2022

Quant Time: May 11 11:28:10 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Thu May 05 10:12:15 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	945772	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.15	114	2854932	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.05	117	2465432	10.00	ppbv	-0.03

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.37	95	1688705	8.65	ppbv	-0.03	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	86.50%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	47056	0.318	ppbv	95
3) Chlorodifluoromethane	2.98	51	65392	0.557	ppbv #	85
4) Chloromethane	3.13	50	33792	0.575	ppbv #	78
9) Propene	3.01	41	48303	0.942	ppbv	86
10) Heptane	8.09	43	14276m	0.114	ppbv	
11) Trichlorofluoromethane	3.94	101	28013m	0.220	ppbv	
13) Ethanol	3.59	45	85198	23.490	ppbv	99
15) Acetone	3.84	43	180981m	2.029	ppbv	
19) Isopropyl Alcohol	3.96	45	42524m	1.002	ppbv	
20) Methylene Chloride	4.33	84	34063	1.013	ppbv	89
26) Hexane	5.66	57	62778	0.662	ppbv #	43
30) Cyclohexane	7.11	84	7699m	0.097	ppbv	
35) Carbon Tetrachloride	6.99	117	7279m	0.039	ppbv	
36) Benzene	6.86	78	59620	0.244	ppbv #	90
44) 2,2,4-Trimethylpentane	7.84	57	84374m	0.197	ppbv	
52) Tetrachloroethene	11.19	164	21959m	0.252	ppbv	
53) Toluene	9.77	91	128589	0.470	ppbv	89
59) m/p-Xylene	12.93	91	80472m	0.266	ppbv	
60) o-Xylene	13.65	91	33040	0.116	ppbv	100
74) 1,2,4-Trimethylbenzene	16.72	105	44462m	0.139	ppbv	

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

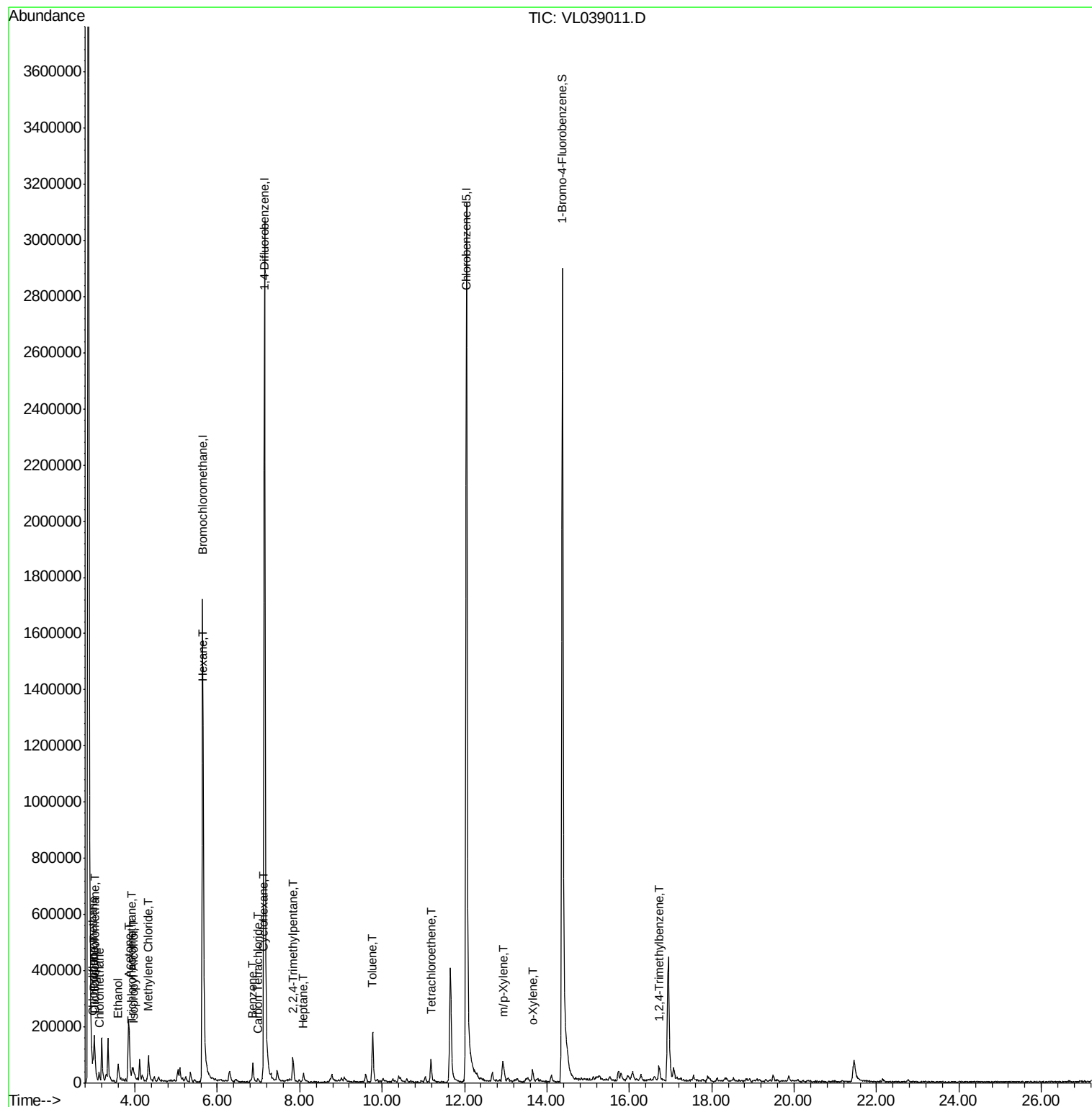
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL050922\
Data File : VL039011.D
Acq On : 10 May 2022 6:59
Operator : SY/AP
Sample : N2696-06
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

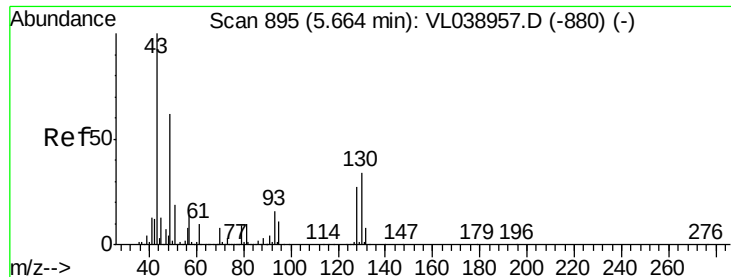
Instrument :
MSVOA_L
ClientSampleId :
OA1

Quant Time: May 11 11:28:10 2022
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL050522
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Thu May 05 10:12:15 2022
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/17/2022
Supervised By :Mahesh Dadoda 05/11/2022



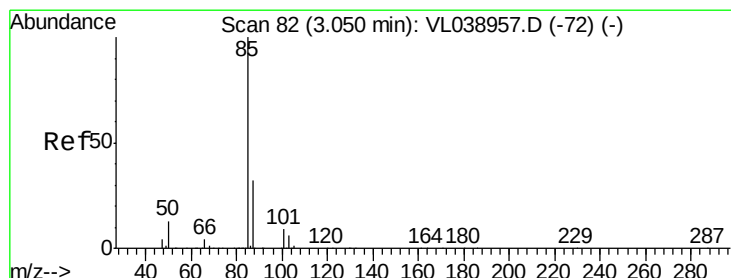
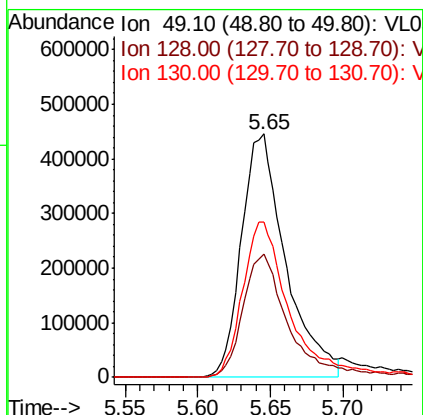
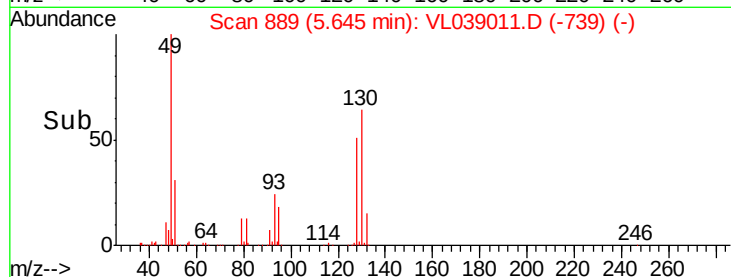
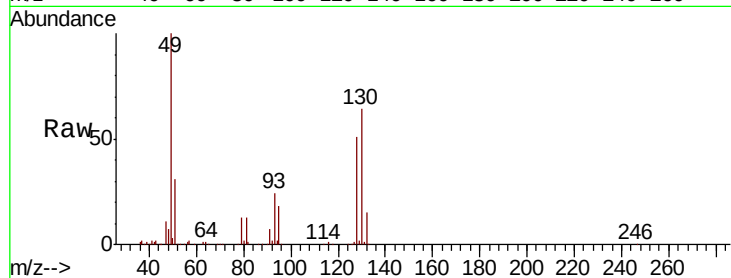


#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.65
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 10 May 2022 8:59

Tot Ion:
 Ion Ratio
 49 100
 128 54.
 130 69.

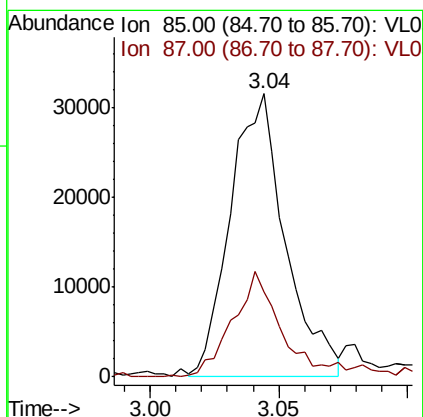
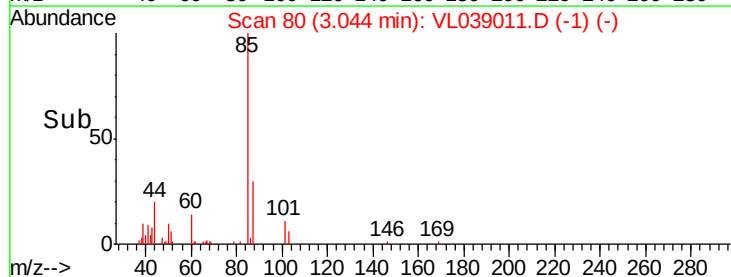
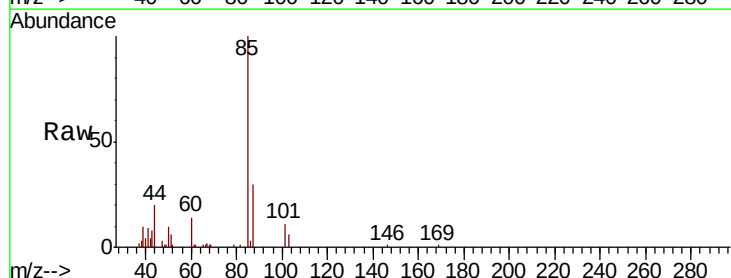
Manual Integrations
 APPROVED

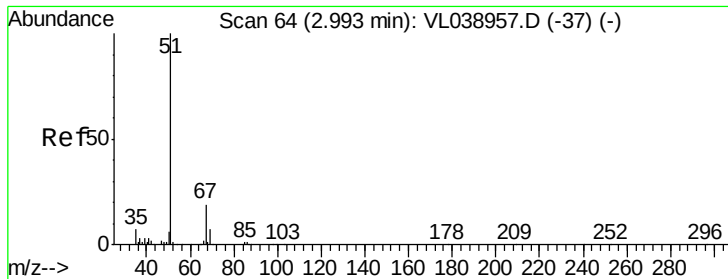
Reviewed By :Semsettin Yesilyurt 05/17/2022
 Supervised By :Mahesh Dadoda 05/11/2022



#2
 Dichlorodifluoromethane
 Concen: 0.318 ppbv
 RT: 3.04 min Scan# 80
 Delta R.T. -0.01 min
 Lab File: VL039011.D
 Acq: 10 May 2022 6:59

Tgt Ion: 85 Resp: 47056
 Ion Ratio Lower Upper
 85 100
 87 29.4 25.7 38.5





#3

Chlorodifluoromethane

Concen: 0.557 ppbv

RT: 2.98 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 10 May 2022 0:59

Tot Ion:

Ion Ratio

51 100

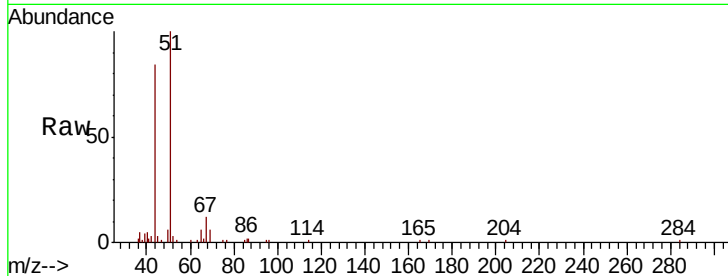
67 13.

Manual Integrations

APPROVED

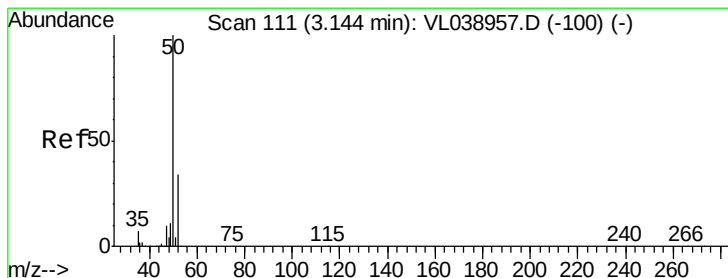
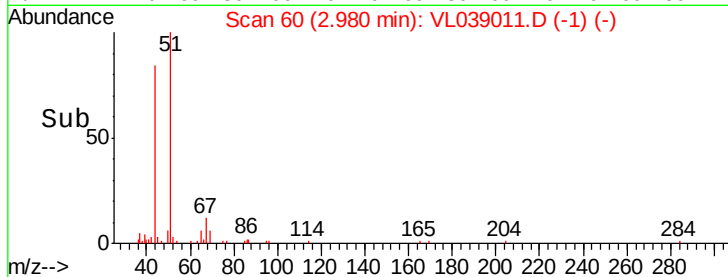
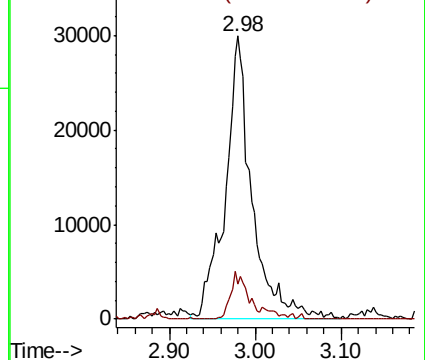
Reviewed By :Semsettin Yesilyurt 05/17/2022

Supervised By :Mahesh Dadoda 05/11/2022



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.575 ppbv

RT: 3.13 min Scan# 106

Delta R.T. -0.02 min

Lab File: VL039011.D

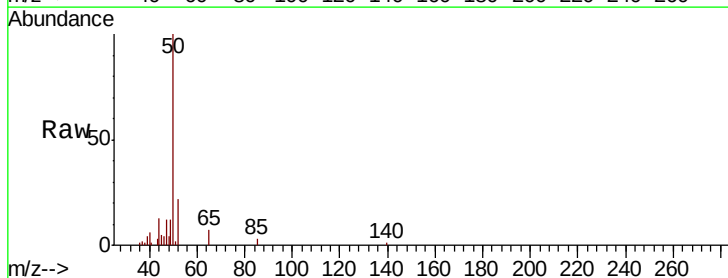
Acq: 10 May 2022 6:59

Tgt Ion: 50 Resp: 33792

Ion Ratio Lower Upper

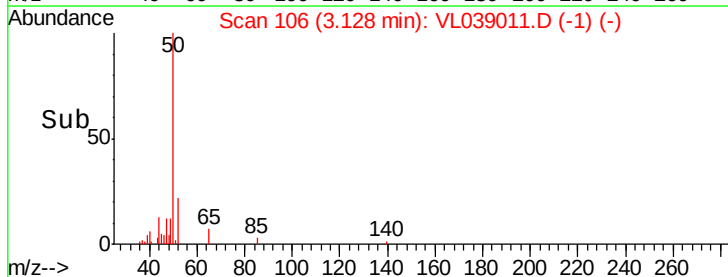
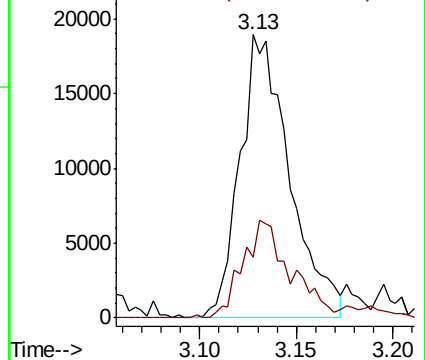
50 100

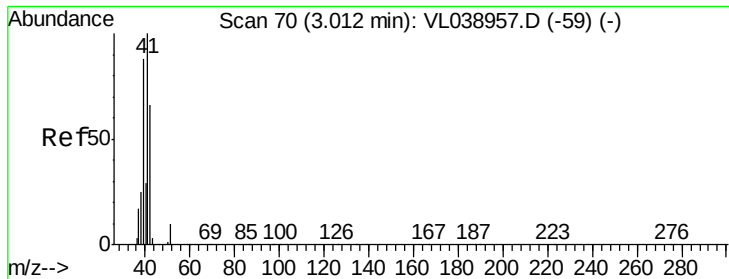
52 21.6 27.3 40.9#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.942 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 10 May 2022 0:59

Tot Ion:

Ion Ratio

41 100

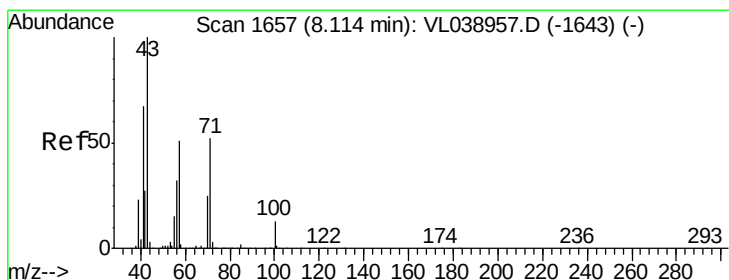
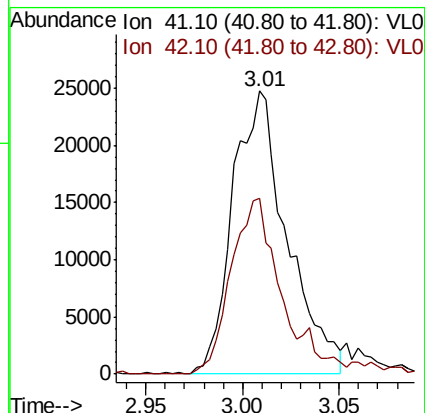
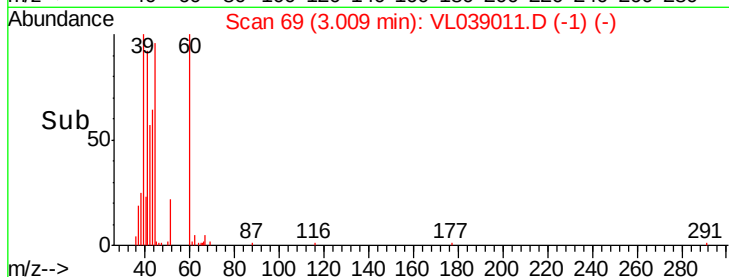
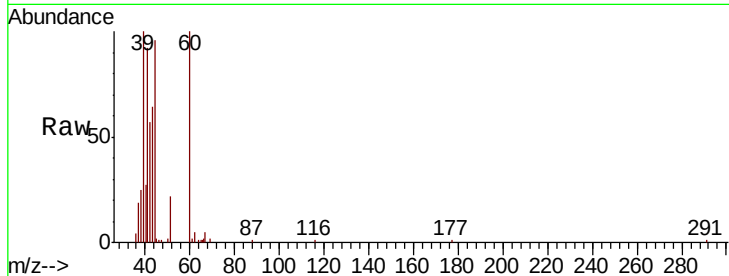
42 61.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/17/2022

Supervised By :Mahesh Dadoda 05/11/2022



#10

Heptane

Concen: 0.114 ppbv m

RT: 8.09 min Scan# 1650

Delta R.T. -0.02 min

Lab File: VL039011.D

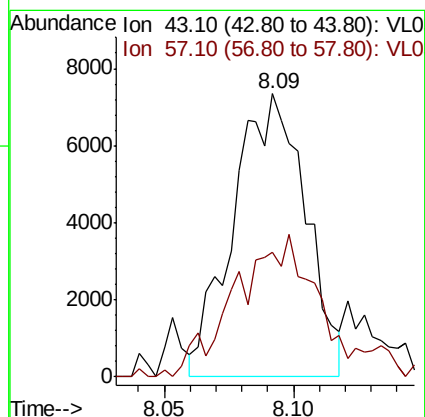
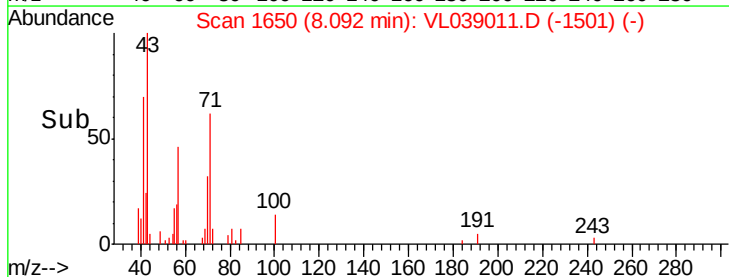
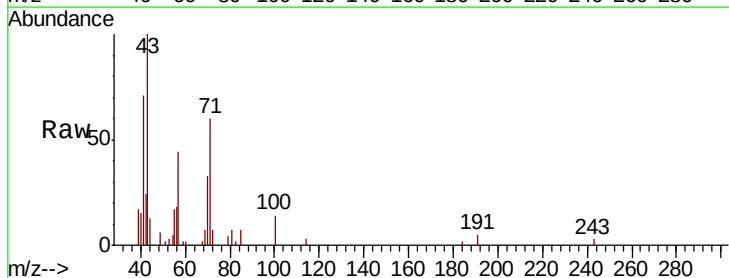
Acq: 10 May 2022 6:59

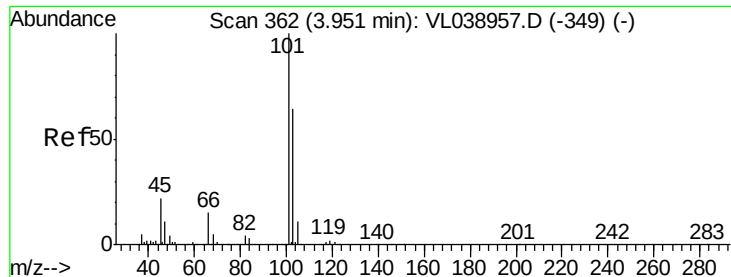
Tgt Ion: 43 Resp: 14276

Ion Ratio Lower Upper

43 100

57 0.0 40.5 60.7#



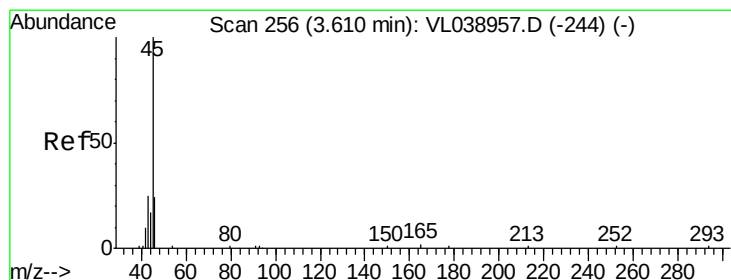
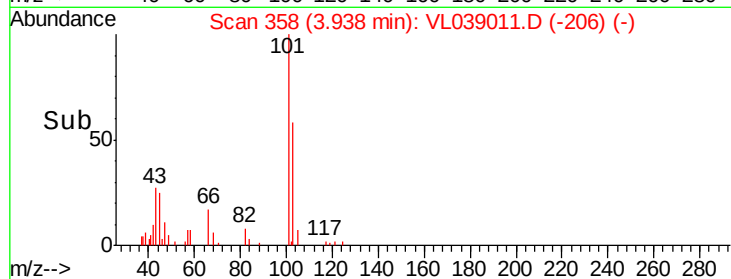
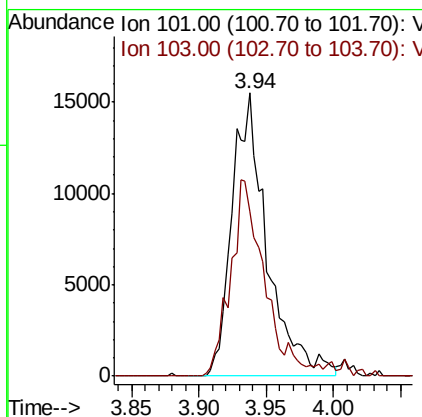
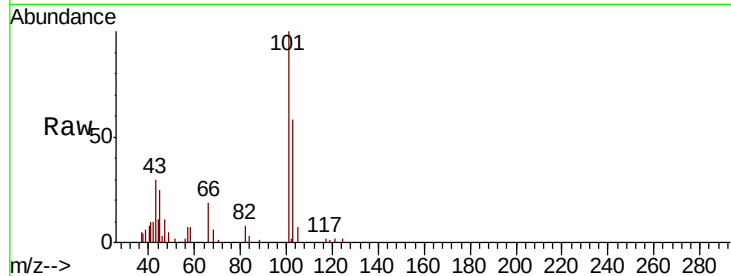


#11
 Trichlorofluoromethane
 Concen: 0.220 ppbv m
 RT: 3.94
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 10 May 2022 8:59

Tot Ion:1
 Ion Rati
 101 100
 103 58.

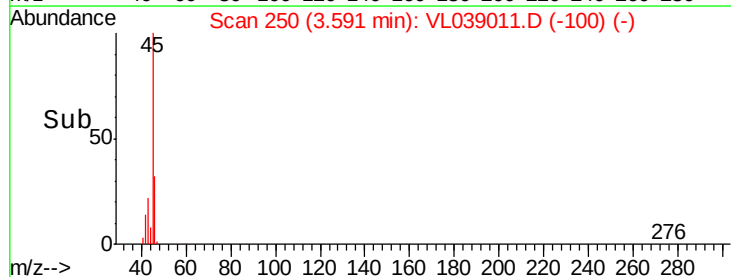
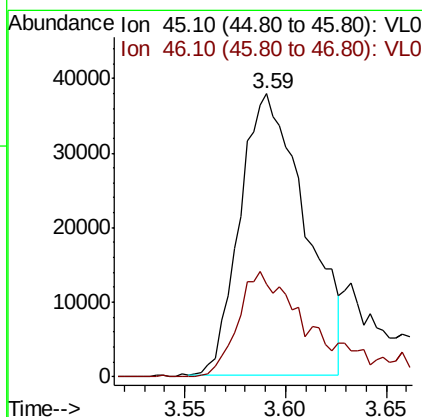
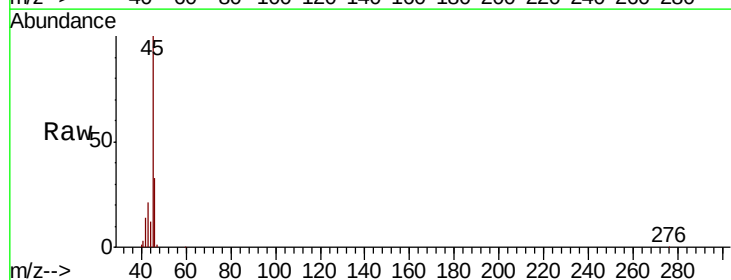
Manual Integrations
 APPROVED

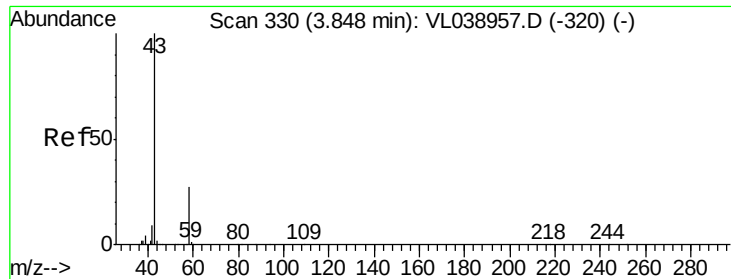
Reviewed By :Semsettin Yesilyurt 05/17/2022
 Supervised By :Mahesh Dadoda 05/11/2022



#13
 Ethanol
 Concen: 23.490 ppbv
 RT: 3.59 min Scan# 250
 Delta R.T. -0.02 min
 Lab File: VL039011.D
 Acq: 10 May 2022 6:59

Tgt Ion: 45 Resp: 85198
 Ion Ratio Lower Upper
 45 100
 46 44.1 18.0 72.2



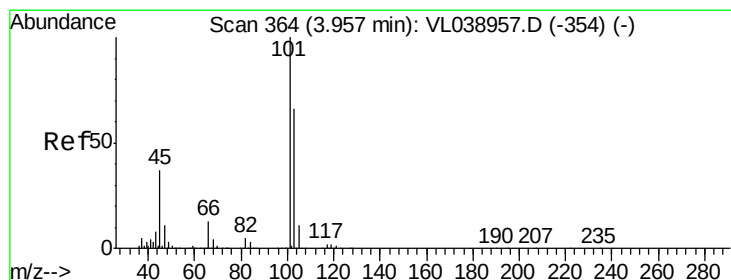
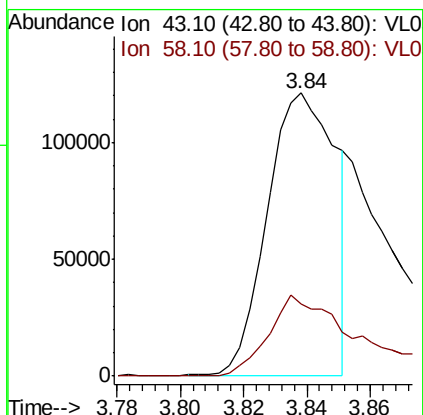
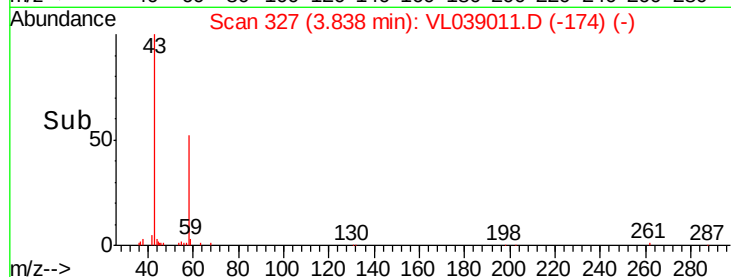
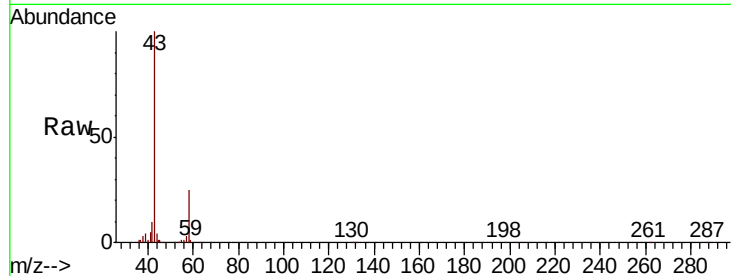


#15
Acetone
Concen: 2.029 ppbv m
RT: 3.84
Instrument: MSVOA_1
Delta R.T.
Lab File: ClientSampleId :
Acq: 10 May 2022 0:59

Tot Ion:
Ion Ratio
43 100
58 43.

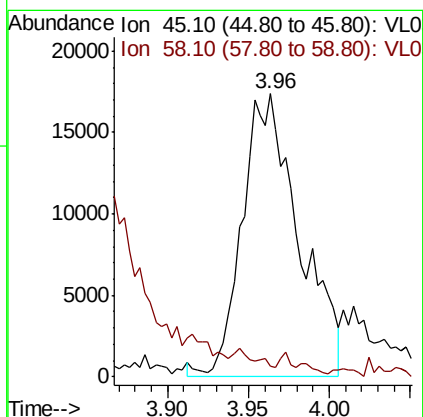
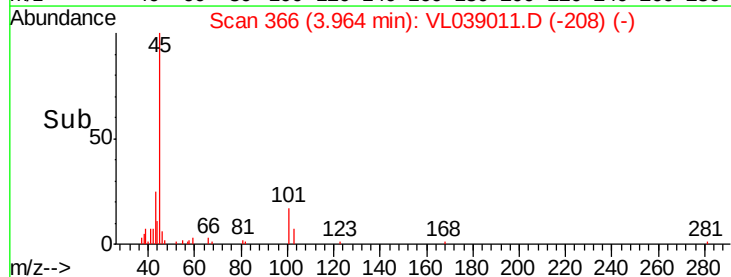
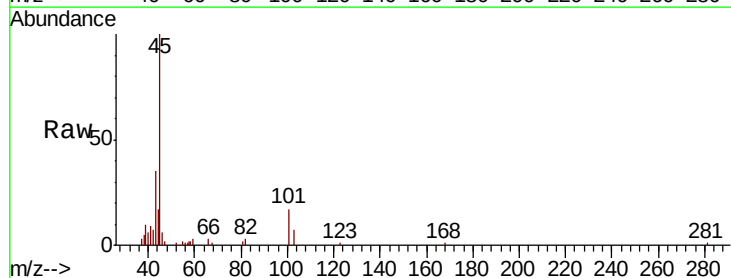
Manual Integrations
APPROVED

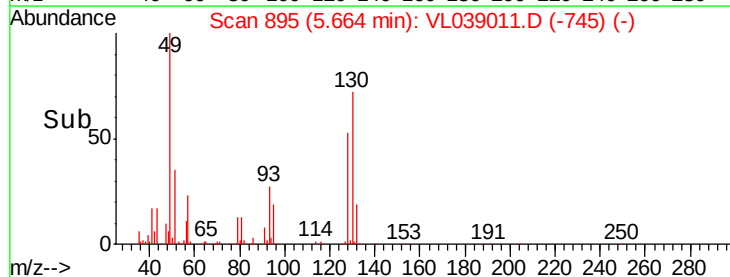
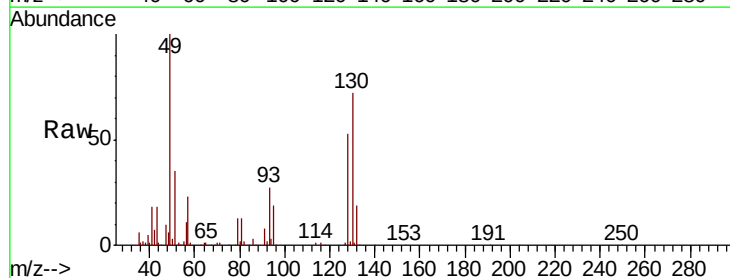
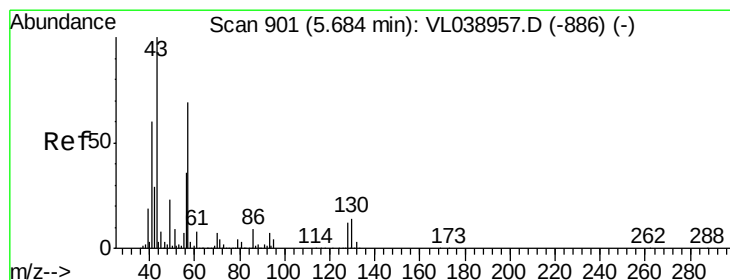
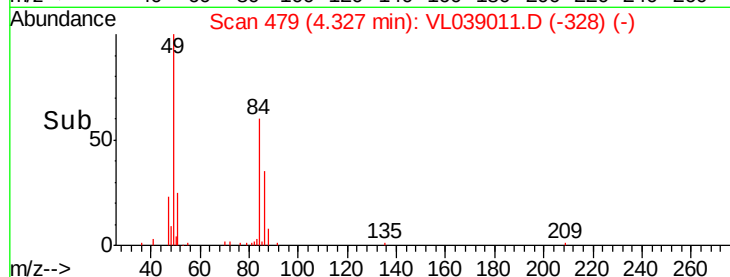
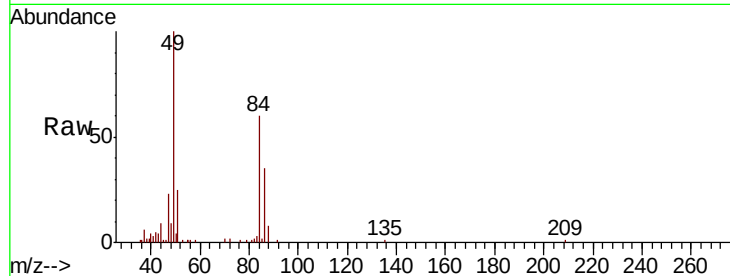
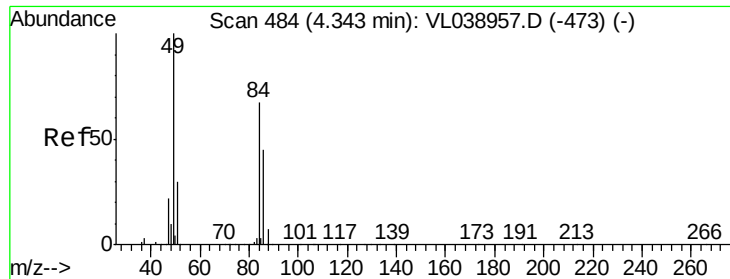
Reviewed By :Semsettin Yesilyurt 05/17/2022
Supervised By :Mahesh Dadoda 05/11/2022



#19
Isopropyl Alcohol
Concen: 1.002 ppbv m
RT: 3.96 min Scan# 366
Delta R.T. 0.01 min
Lab File: VL039011.D
Acq: 10 May 2022 6:59

Tgt Ion: 45 Resp: 42524
Ion Ratio Lower Upper
45 100
58 0.0 1.4 2.2#



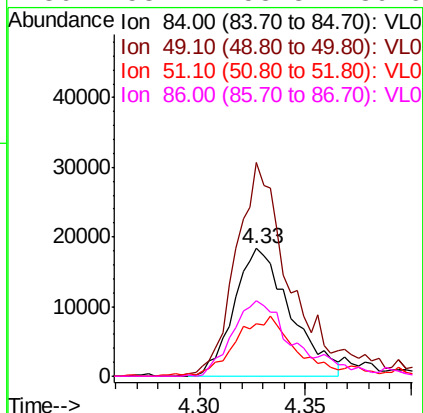


#20
Methylene Chloride
Concen: 1.013 ppbv
RT: 4.33
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
Acq: 10 May 2022 8:59

Tot Ion:
Ion Ratio
84 100
49 165.
51 39.
86 58.2 53.8 80.6

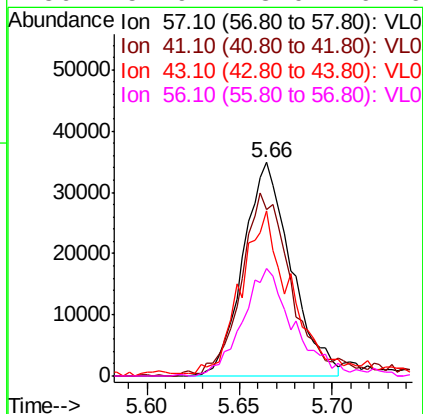
Manual Integrations
APPROVED

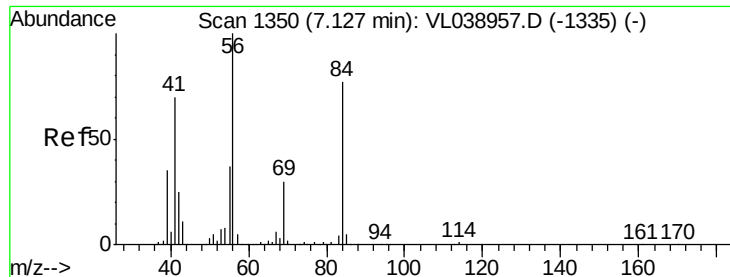
Reviewed By :Semsettin Yesilyurt 05/17/2022
Supervised By :Mahesh Dadoda 05/11/2022



#26
Hexane
Concen: 0.662 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.02 min
Lab File: VL039011.D
Acq: 10 May 2022 6:59

Tgt Ion: 57 Resp: 62778
Ion Ratio Lower Upper
57 100
41 94.5 75.2 112.8
43 84.4 190.8 286.2#
56 54.9 43.0 64.6



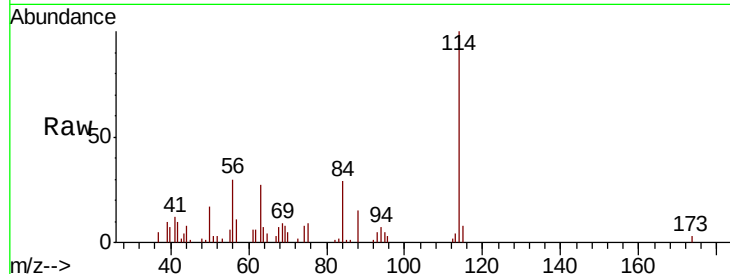


#30
Cyclohexane
Concen: 0.097 ppbv m
RT: 7.11 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 10 May 2022 8:59

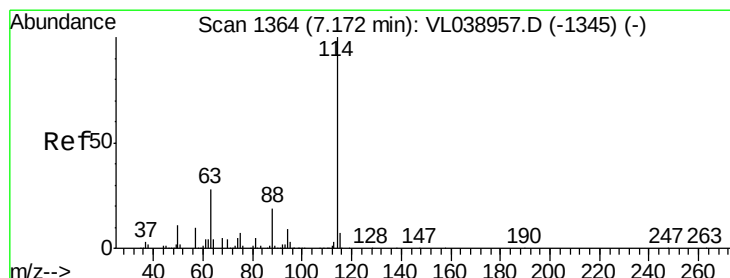
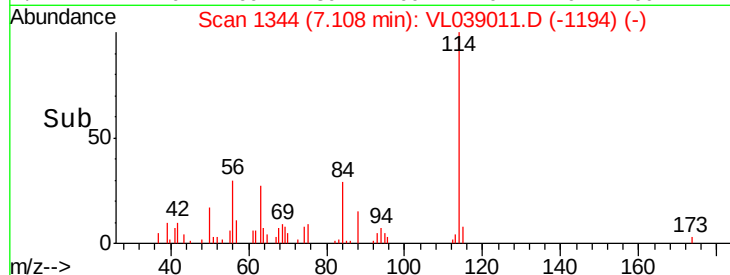
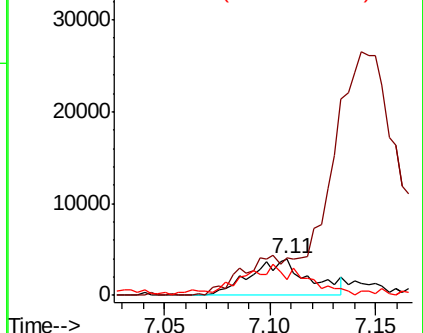
Tot Ion:
Ion Ratio
84 100
56 0.
41 86.

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/17/2022
Supervised By :Mahesh Dadoda 05/11/2022

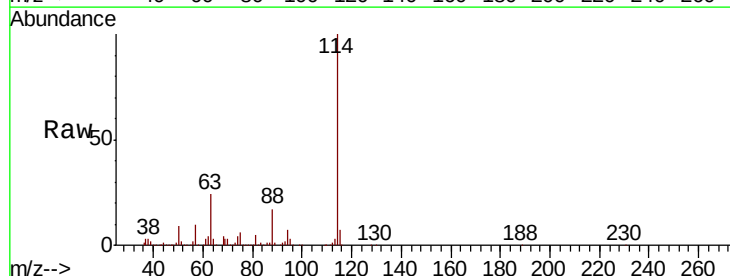


Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

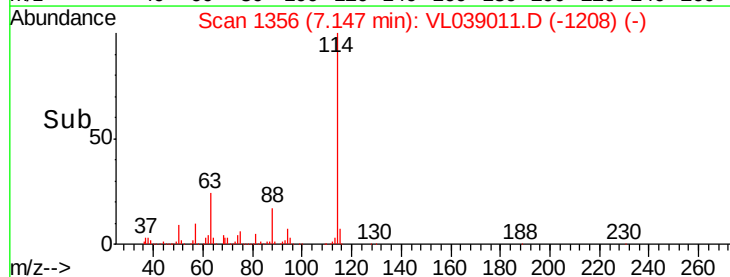
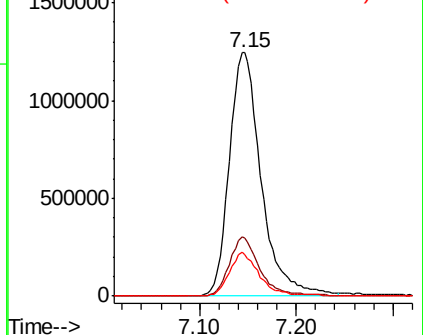


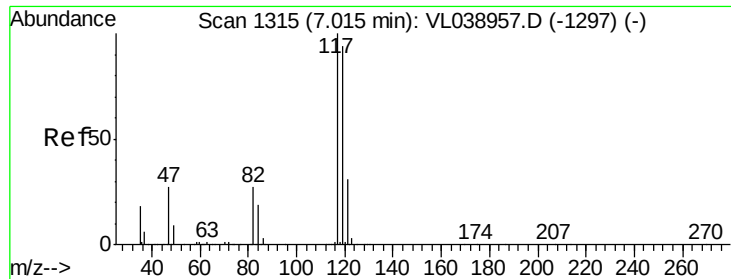
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.15 min Scan# 1356
Delta R.T. -0.03 min
Lab File: VL039011.D
Acq: 10 May 2022 6:59

Tgt Ion:114 Resp: 2854932
Ion Ratio Lower Upper
114 100
63 23.6 22.6 33.8
88 17.5 15.4 23.0



Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





#35

Carbon Tetrachloride

Concen: 0.039 ppbv m

RT: 6.99 Instrument:

Delta R.T. MSVOA_L

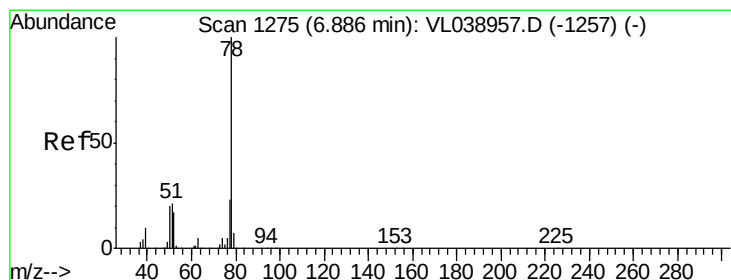
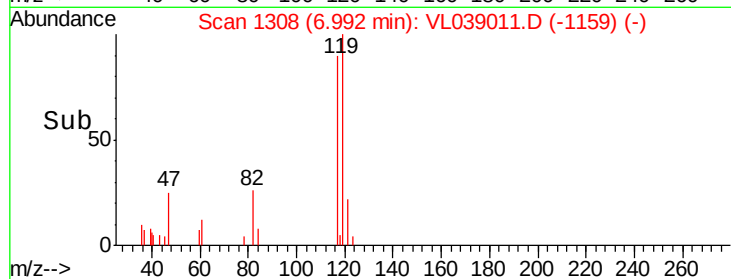
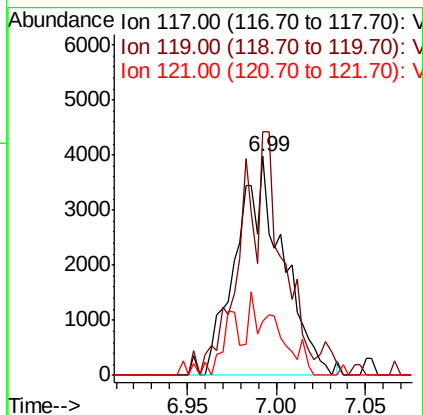
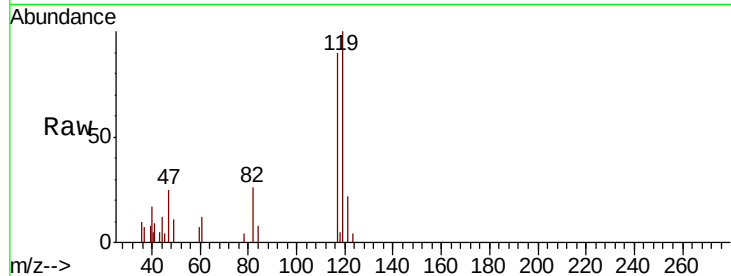
Lab File: ClientSampleId:

Acq: 10 May 2022 6:59

Tot Ion:1
Ion Rati
117 100
119 111.
121 24.

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/17/2022
Supervised By :Mahesh Dadoda 05/11/2022



#36

Benzene

Concen: 0.244 ppbv

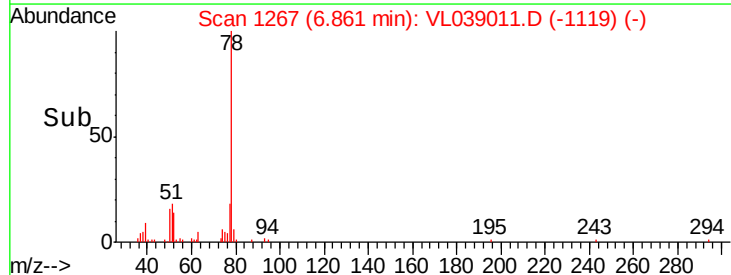
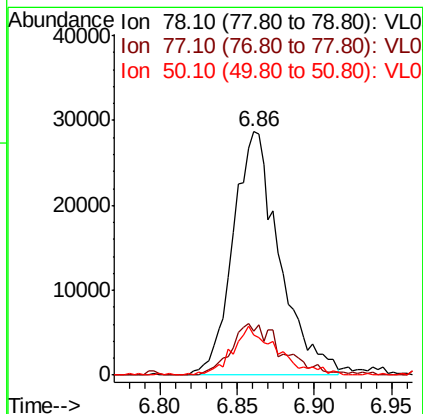
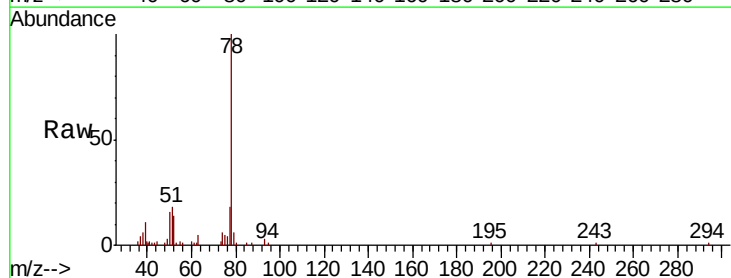
RT: 6.86 min Scan# 1267

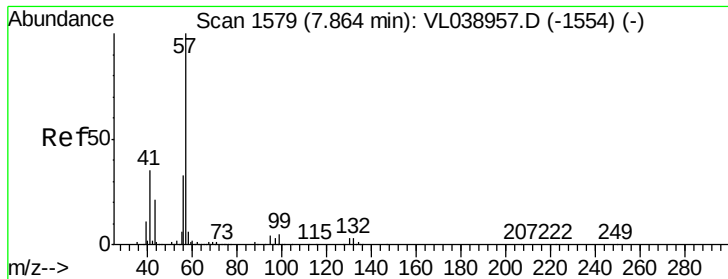
Delta R.T. -0.03 min

Lab File: VL039011.D

Acq: 10 May 2022 6:59

Tgt Ion: 78 Resp: 59620
Ion Ratio Lower Upper
78 100
77 18.1 18.6 28.0#
50 15.7 15.6 23.4





#44

2,2,4-Trimethylpentane

Concen: 0.197 ppbv m

RT: 7.84 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampled :

Acq: 10 May 2022 0:59

Tot Ion:

Ion Ratio

57 100

41 35.

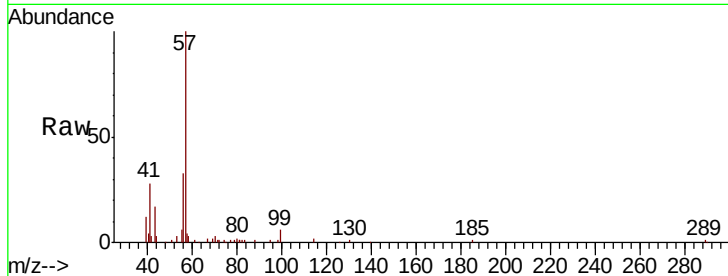
56 35.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/17/2022

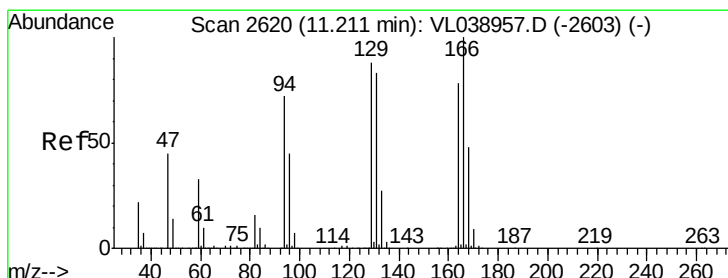
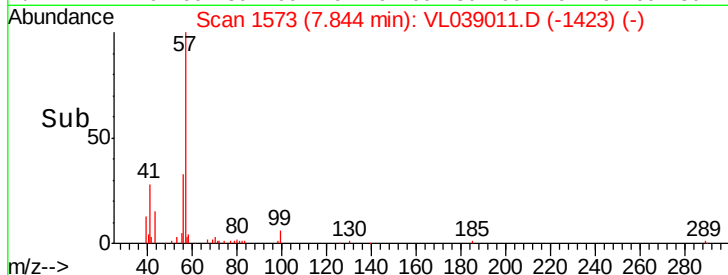
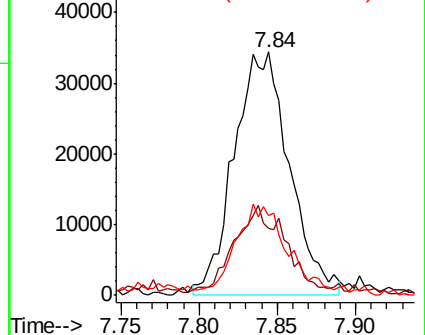
Supervised By :Mahesh Dadoda 05/11/2022



Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#52

Tetrachloroethene

Concen: 0.252 ppbv m

RT: 11.19 min Scan# 2613

Delta R.T. -0.02 min

Lab File: VL039011.D

Acq: 10 May 2022 6:59

Tgt Ion:164 Resp: 21959

Ion Ratio Lower Upper

164 100

166 123.1 102.5 153.7

129 102.3 90.1 135.1

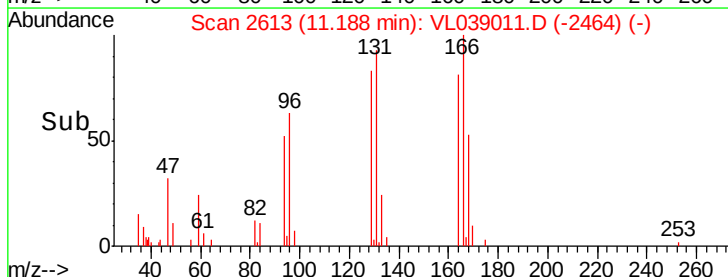
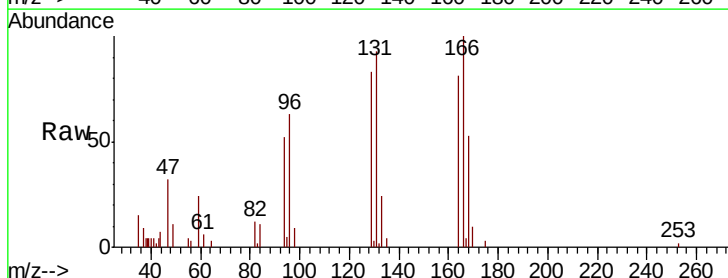
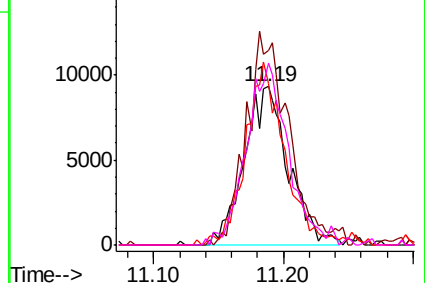
131 115.1 84.8 127.2

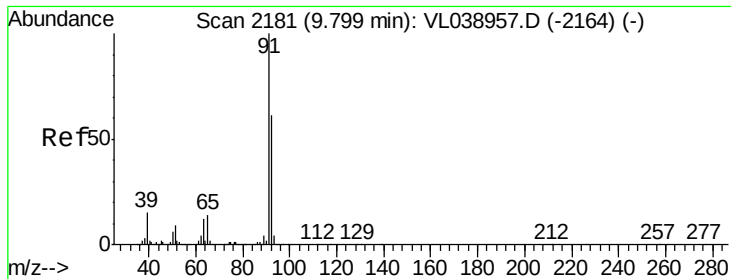
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.470 ppbv

RT: 9.77 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 10 May 2022 0:59

Tot Ion:

Ion Ratio

91 100

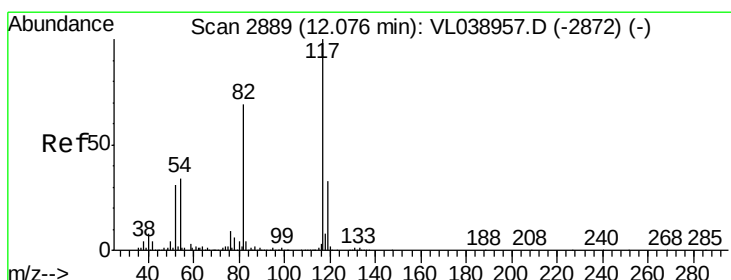
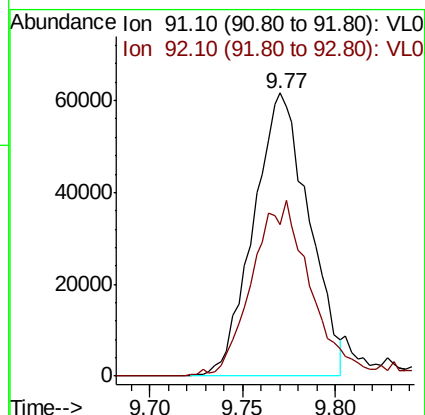
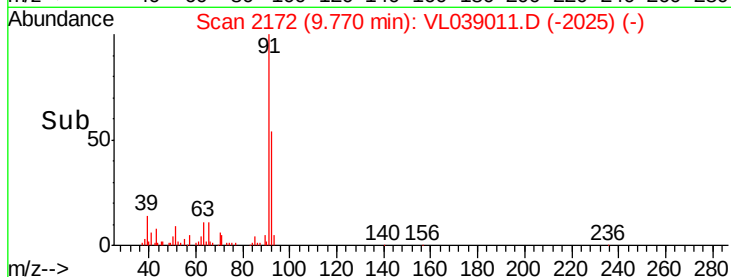
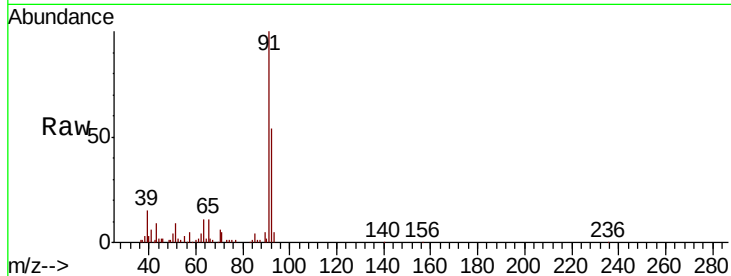
92 68.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/17/2022

Supervised By :Mahesh Dadoda 05/11/2022



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.05 min Scan# 2880

Delta R.T. -0.03 min

Lab File: VL039011.D

Acq: 10 May 2022 6:59

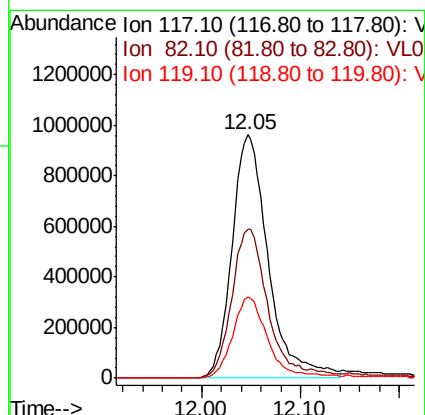
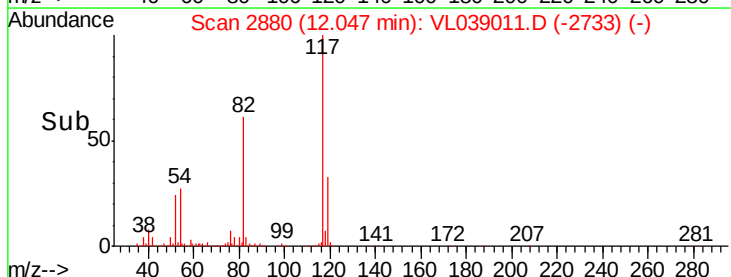
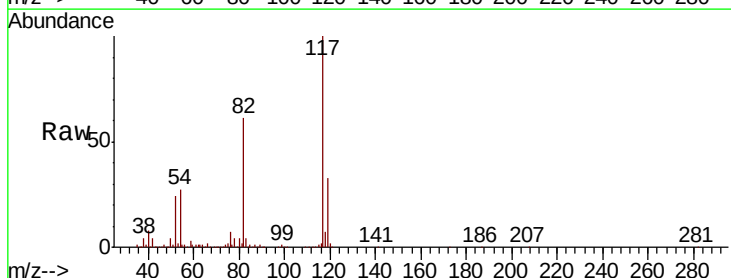
Tgt Ion:117 Resp: 2465432

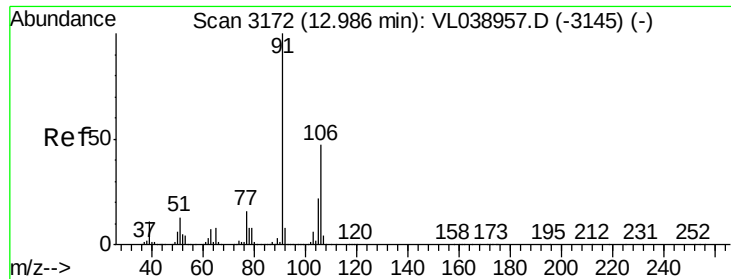
Ion Ratio Lower Upper

117 100

82 65.5 57.0 85.6

119 33.6 27.2 40.8



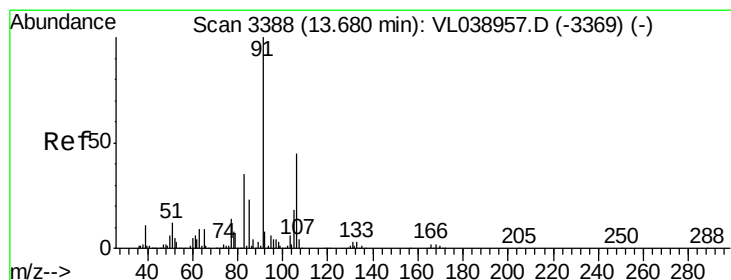
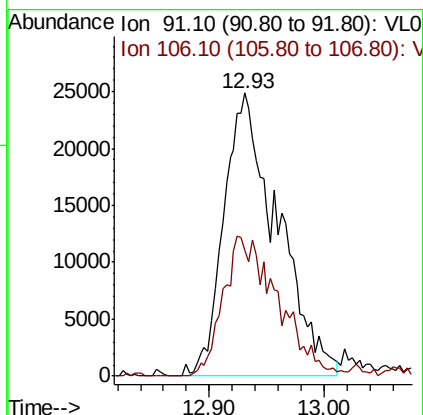
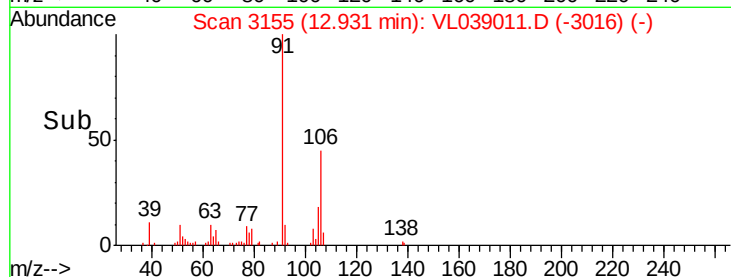
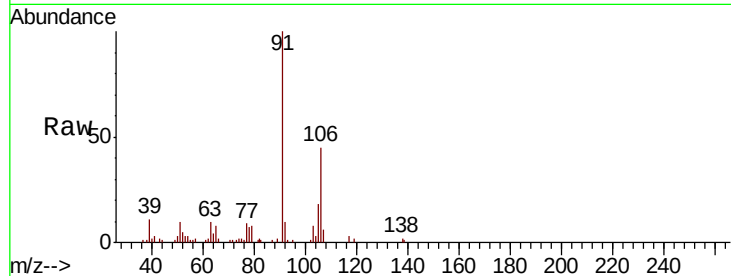


#59
m/p-Xylene
Concen: 0.266 ppbv m
RT: 12.93
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 10 May 2022 0:59

Tot Ion:
Ion Ratio
91 100
106 0.

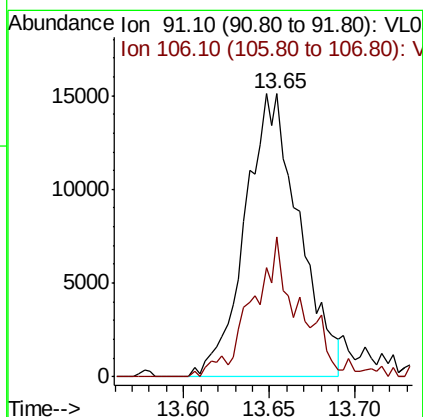
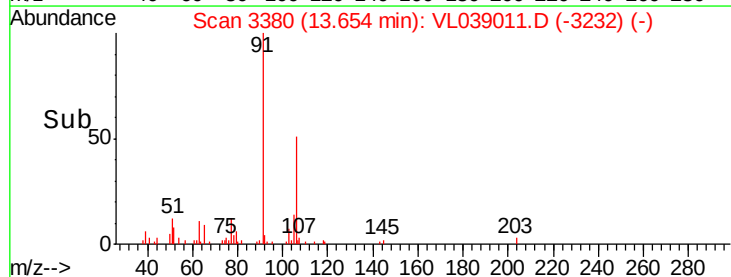
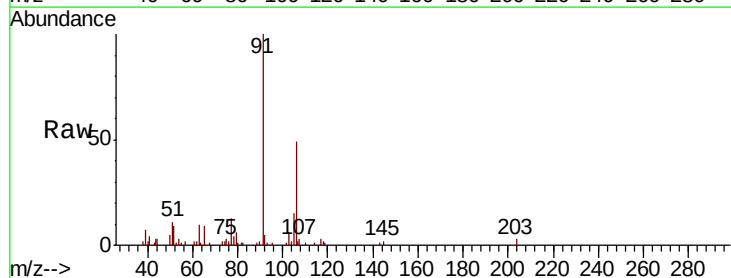
Manual Integrations
APPROVED

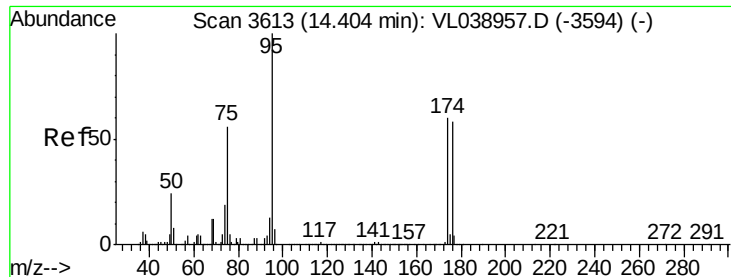
Reviewed By :Semsettin Yesilyurt 05/17/2022
Supervised By :Mahesh Dadoda 05/11/2022



#60
o-Xylene
Concen: 0.116 ppbv
RT: 13.65 min Scan# 3380
Delta R.T. -0.03 min
Lab File: VL039011.D
Acq: 10 May 2022 6:59

Tgt Ion: 91 Resp: 33040
Ion Ratio Lower Upper
91 100
106 44.5 22.2 66.6



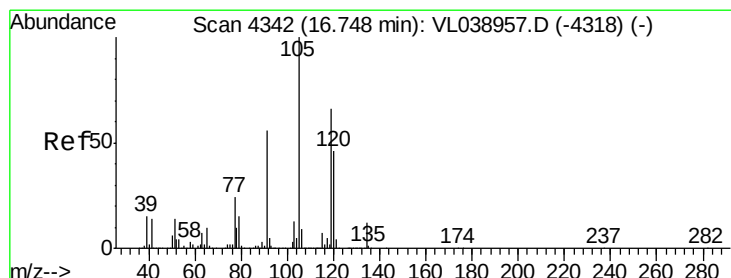
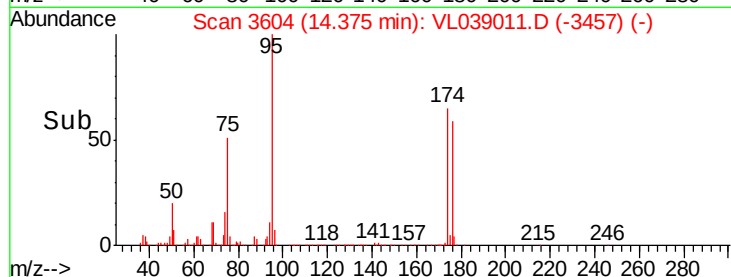
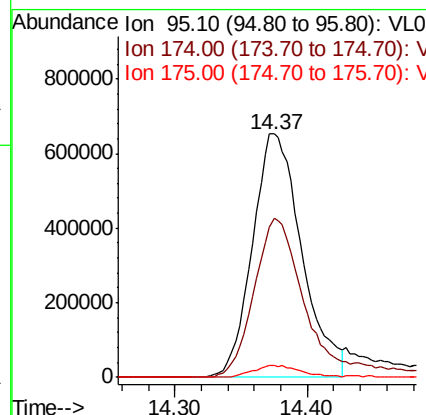
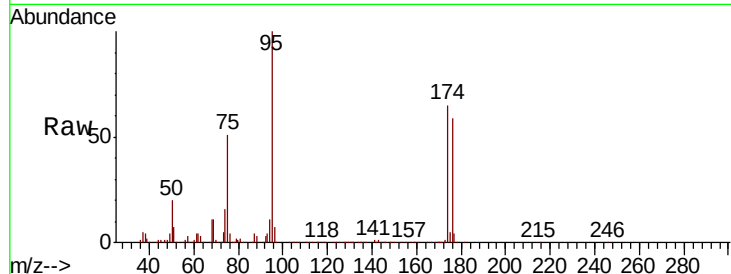


#68
 1-Bromo-4-Fluorobenzene
 Concen: 8.649 ppbv
 RT: 14.37 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 10 May 2022 8:59

Tot Ion:
 Ion Ratio
 95 100
 174 71.
 175 5.

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/17/2022
 Supervised By :Mahesh Dadoda 05/11/2022



#74
 1,2,4-Trimethylbenzene
 Concen: 0.139 ppbv m
 RT: 16.72 min Scan# 4334
 Delta R.T. -0.03 min
 Lab File: VL039011.D
 Acq: 10 May 2022 6:59

Tgt Ion:105 Resp: 44462
 Ion Ratio Lower Upper
 105 100
 120 37.4 36.9 55.3
 91 13.4 45.0 67.4#
 77 9.2 19.2 28.8#

