

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112921\
 Data File : VL038137.D
 Acq On : 29 Nov 2021 16:17
 Operator : SY/AP
 Sample : M4827-01DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 IA-1DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/30/2021
 Supervised By :Mahesh Dadoda 12/01/2021

Quant Time: Nov 30 06:21:17 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Thu Nov 18 13:16:09 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	934498	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2544971	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2232693	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1713906	10.64	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.40%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.06	85	29588	0.192	ppbv	91
3) Chlorodifluoromethane	3.00	51	42771m	0.218	ppbv	
4) Chloromethane	3.15	50	30134m	0.451	ppbv	
7) Chloroethane	3.57	64	232853	10.011	ppbv	99
9) Propene	3.03	41	330809m	4.577	ppbv	
10) Heptane	8.13	43	43067m	0.241	ppbv	
11) Trichlorofluoromethane	3.96	101	29058	0.198	ppbv	86
13) Ethanol	3.64	45	17083752	2445.954	ppbv	96
15) Acetone	3.86	43	646612	7.981	ppbv	98
17) tert-Butyl alcohol	4.33	59	92135m	0.937	ppbv	
19) Isopropyl Alcohol	4.00	45	5083785	86.840	ppbv #	99
20) Methylene Chloride	4.36	84	156283	3.444	ppbv	98
26) Hexane	5.69	57	166792	1.285	ppbv #	49
29) Chloroform	5.76	83	932857	4.877	ppbv	99
31) cis-1,2-Dichloroethene	5.55	61	17786m	0.144	ppbv	
34) 2-Butanone	5.26	43	32955m	0.321	ppbv	
35) Carbon Tetrachloride	7.03	117	9837m	0.055	ppbv	
36) Benzene	6.90	78	217427	0.856	ppbv	94
38) Trichloroethene	7.84	130	10405m	0.109	ppbv	
42) Bromodichloromethane	7.80	83	60319	0.324	ppbv #	99
52) Tetrachloroethene	11.23	164	3153173	33.568	ppbv	99
53) Toluene	9.81	91	121416	0.416	ppbv	99
58) Ethyl Benzene	12.71	91	48201m	0.131	ppbv	
59) m/p-Xylene	12.97	91	133756	0.431	ppbv	97
60) o-Xylene	13.69	91	55041	0.191	ppbv	94
74) 1,2,4-Trimethylbenzene	16.75	105	32588m	0.104	ppbv	

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

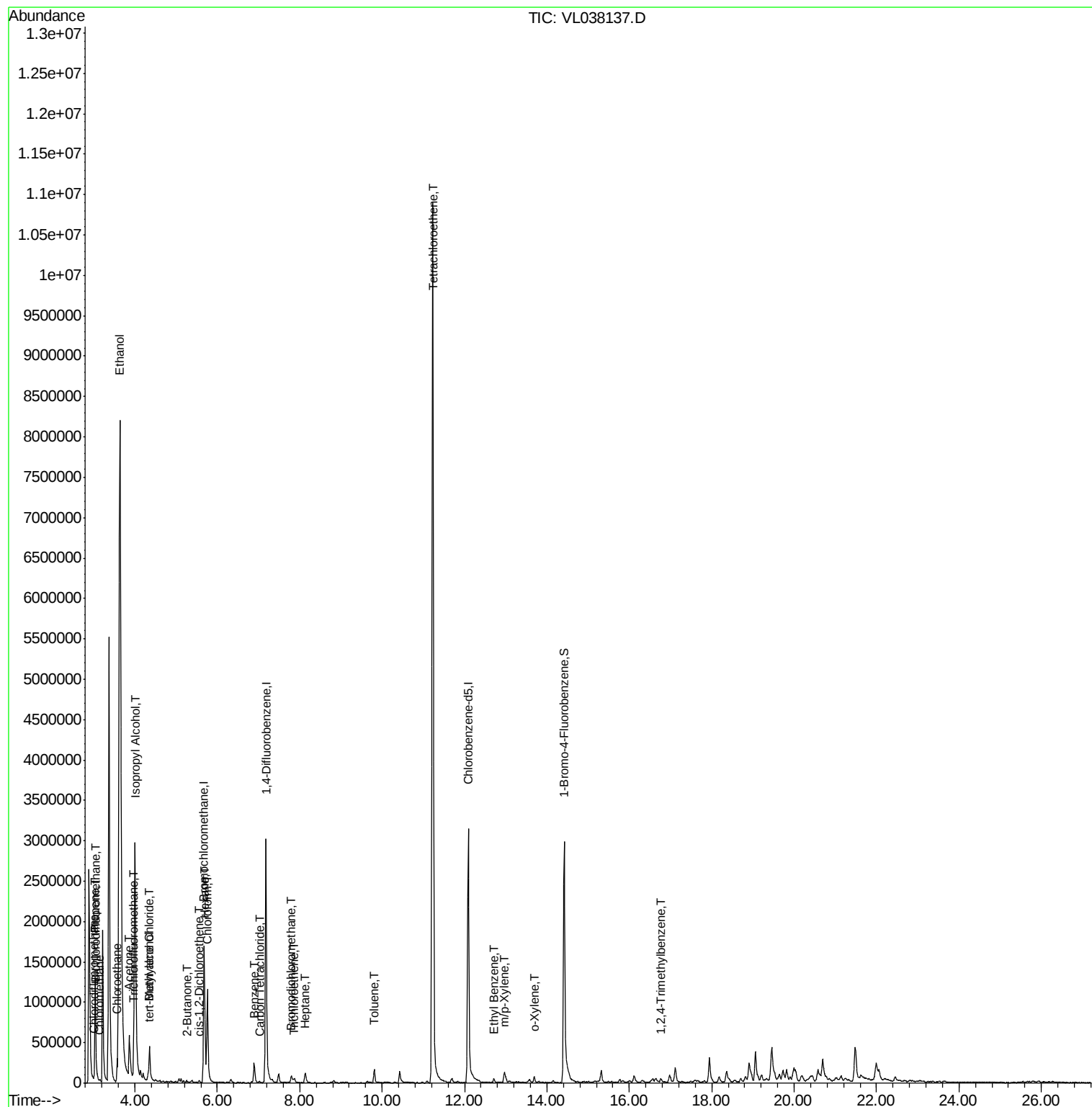
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL112921\
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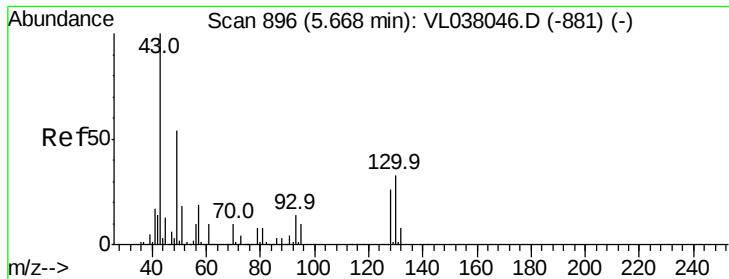
Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP

Quant Time: Nov 30 06:21:17 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111821.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Thu Nov 18 13:16:09 2021
Response via : Initial Calibration

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 29 Nov 2021 16:17

Tot Ion:

Ion Ratio

49 100

128 48.

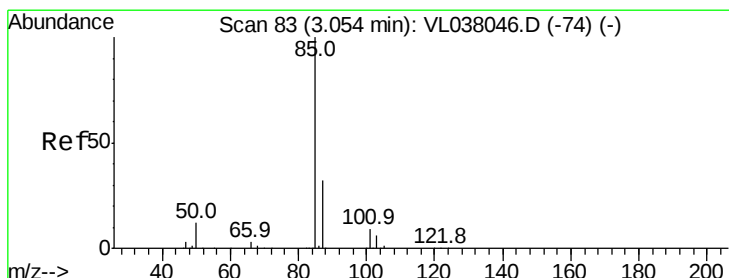
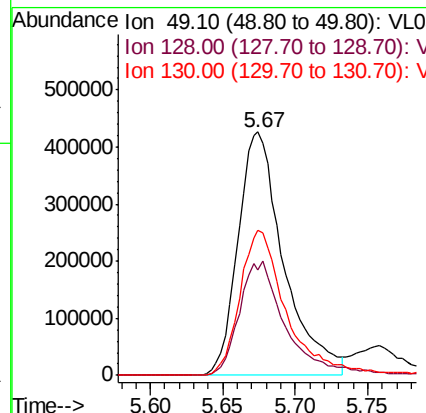
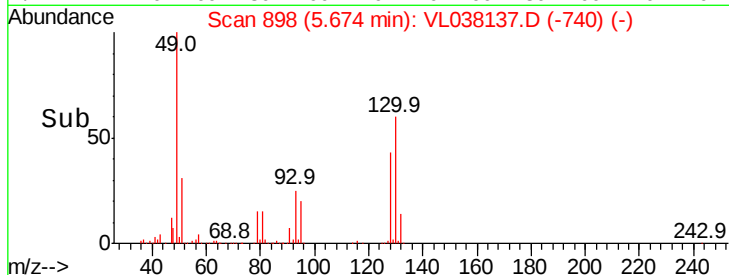
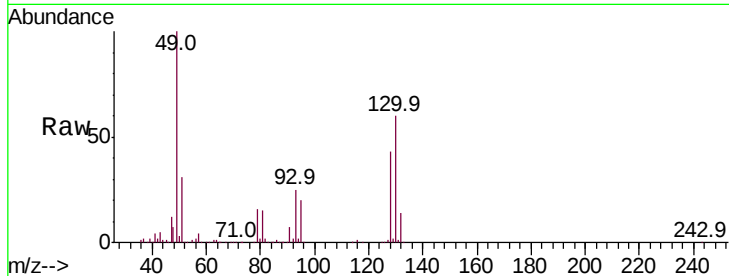
130 61.

Manual Integrations

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Supervised By :Mahesh Dadoda 12/01/2021



#2

Dichlorodifluoromethane

Concen: 0.192 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.00 min

Lab File: VL038137.D

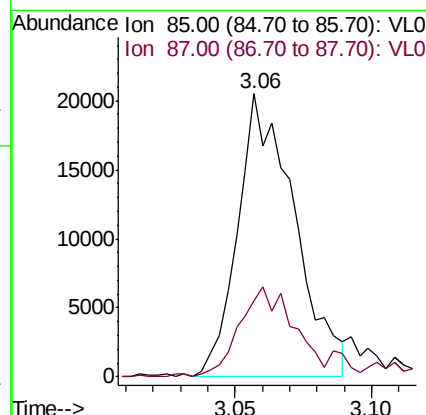
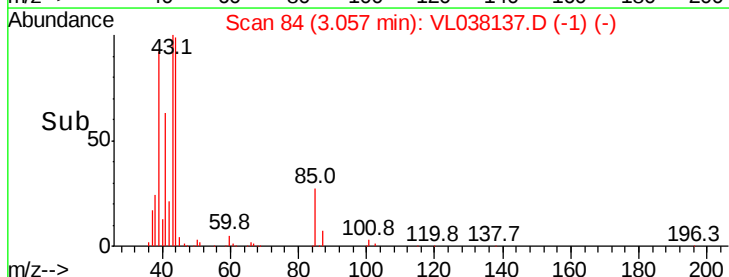
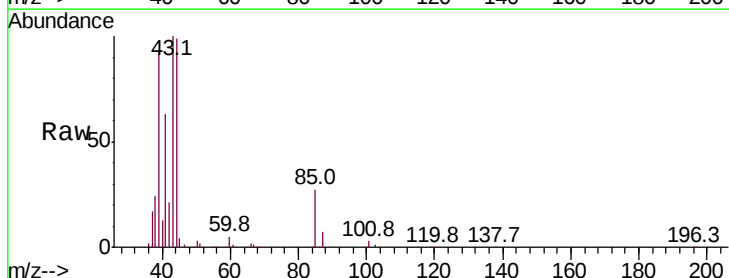
Acq: 29 Nov 2021 16:17

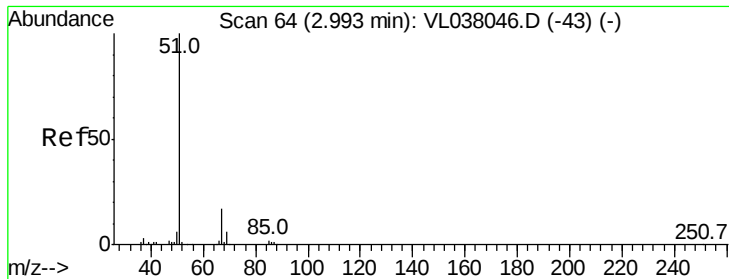
Tgt Ion: 85 Resp: 29588

Ion Ratio Lower Upper

85 100

87 27.0 25.8 38.6





#3

Chlorodifluoromethane

Concen: 0.218 ppbv m

RT: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 29 Nov 2021 16:17

Tot Ion:

Ion Ratio

51 100

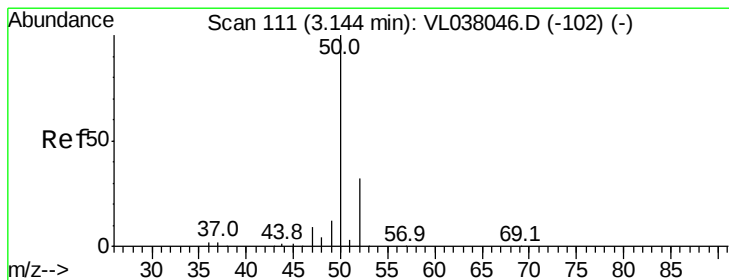
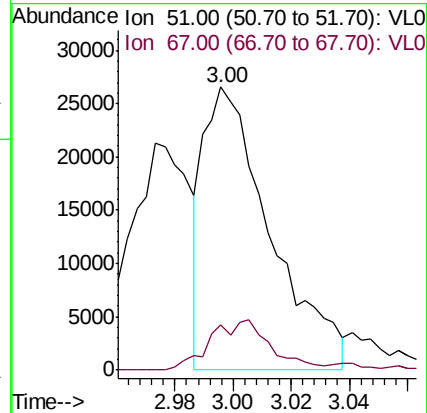
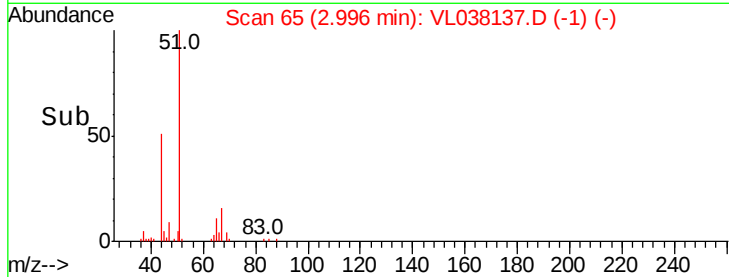
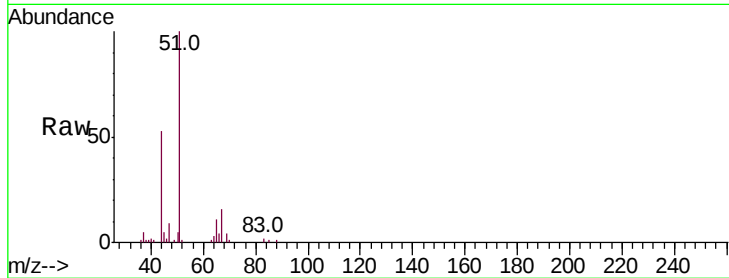
67 17.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/30/2021

Supervised By :Mahesh Dadoda 12/01/2021



#4

Chloromethane

Concen: 0.451 ppbv m

RT: 3.15 min Scan# 112

Delta R.T. 0.00 min

Lab File: VL038137.D

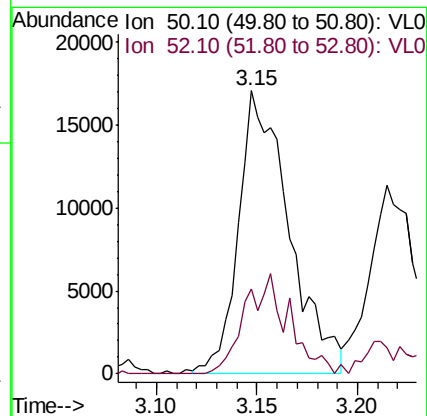
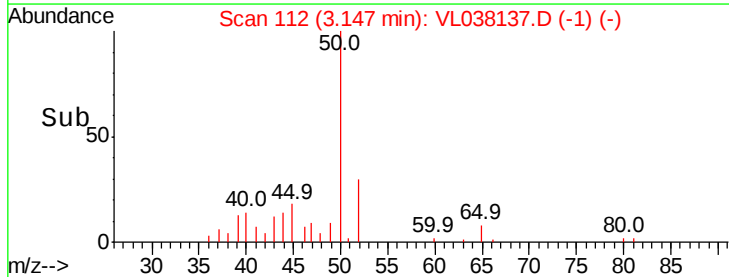
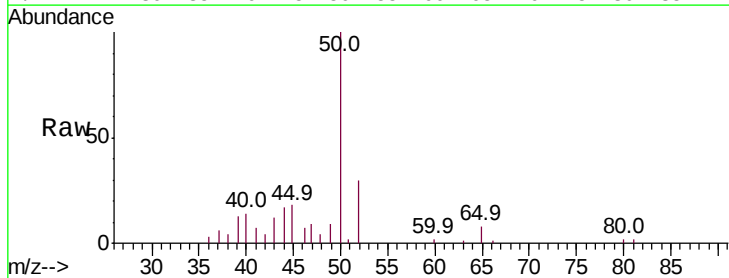
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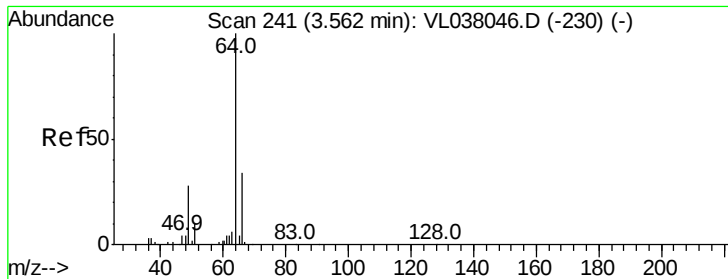
Tgt Ion: 50 Resp: 30134

Ion Ratio Lower Upper

50 100

52 29.9 25.4 38.0





#7

Chloroethane

Concen: 10.011 ppbv

RT: 3.57

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 29 Nov 2021 16:17

Tot Ion:

Ion Ratio

64 100

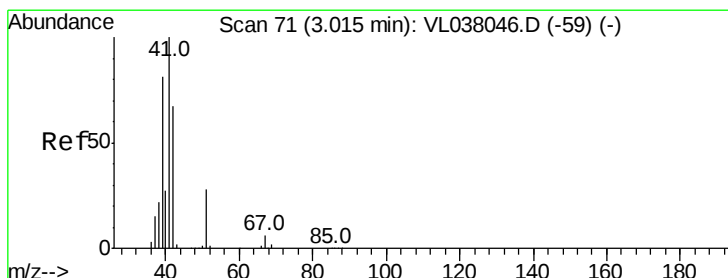
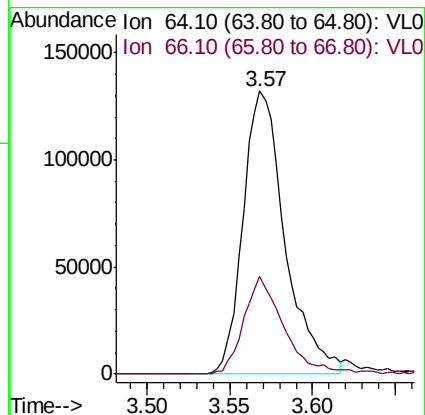
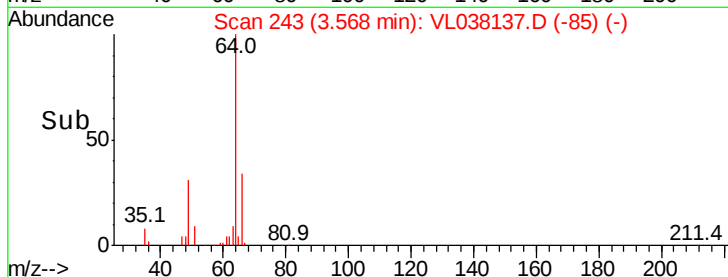
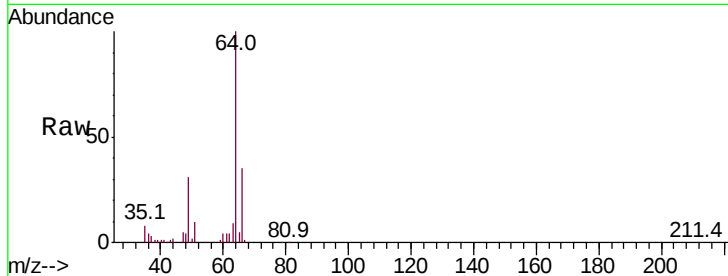
66 34.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/30/2021

Supervised By :Mahesh Dadoda 12/01/2021



#9

Propene

Concen: 4.577 ppbv m

RT: 3.03 min Scan# 77

Delta R.T. 0.02 min

Lab File: VL038137.D

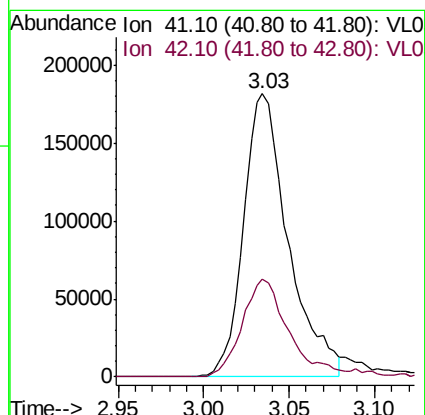
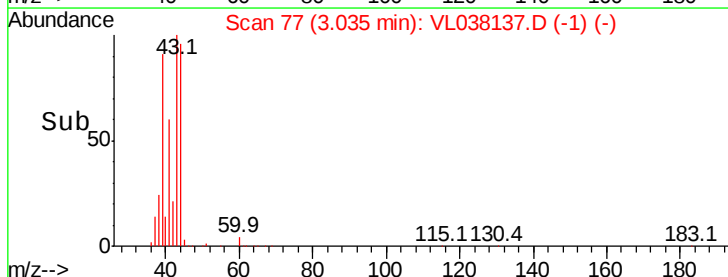
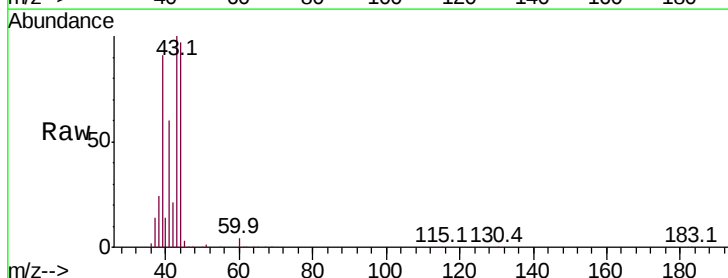
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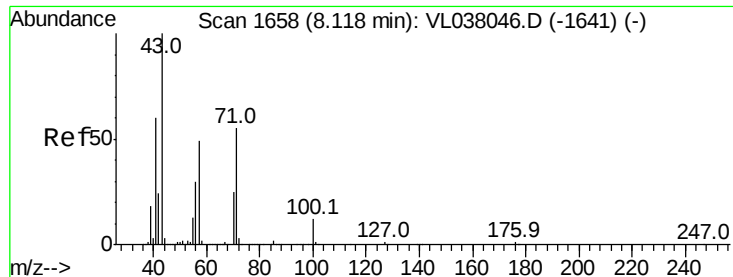
Tgt Ion: 41 Resp: 330809

Ion Ratio Lower Upper

41 100

42 142.2 53.8 80.8#



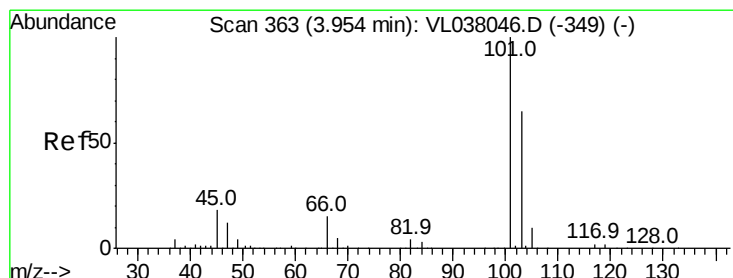
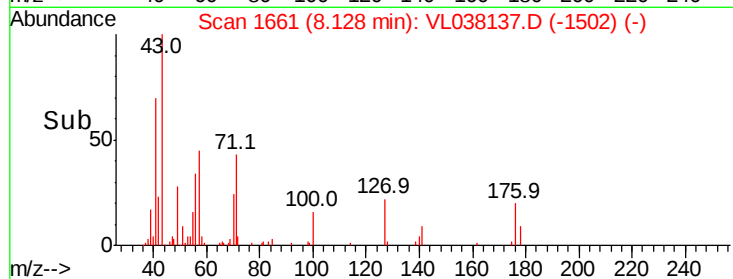
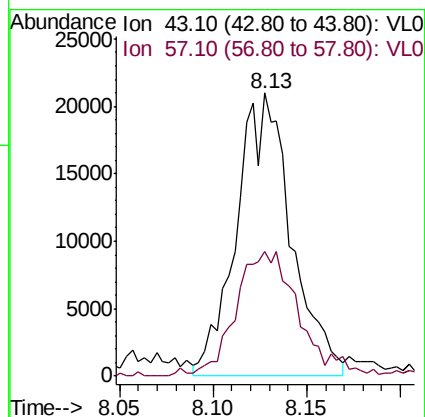
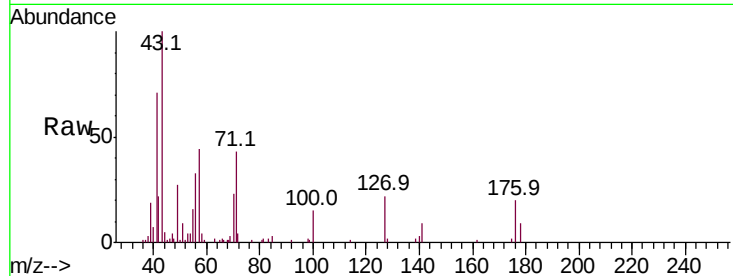


#10
 Heptane
 Concen: 0.241 ppbv m
 RT: 8.13
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 29 Nov 2021 16:17

Tot Ion:
 Ion Ratio
 43 100
 57 51.

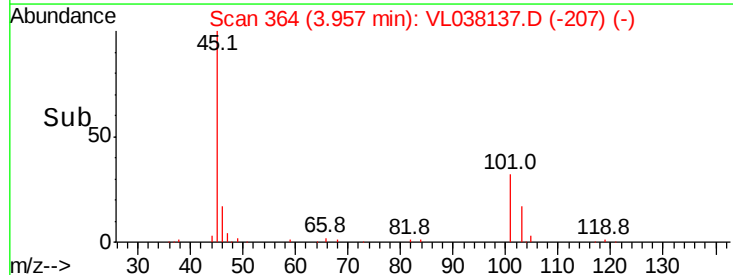
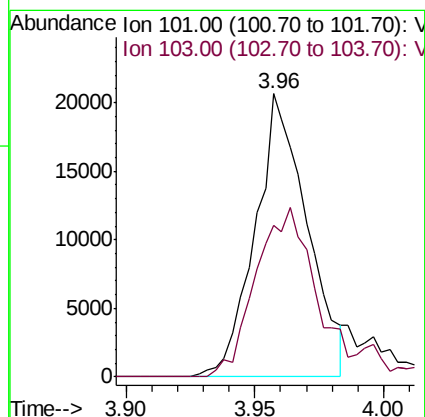
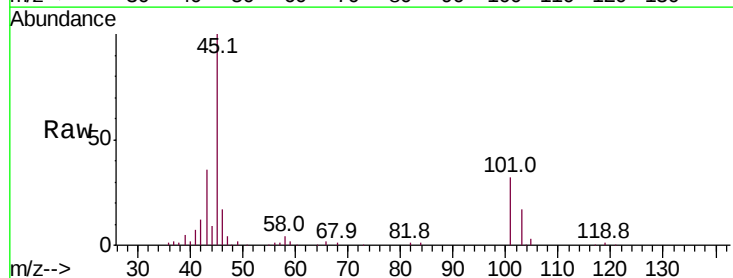
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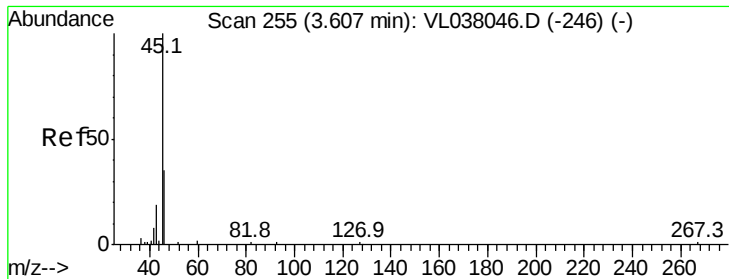
Reviewed By :Semsettin Yesilyurt 11/30/2021
 Supervised By :Mahesh Dadoda 12/01/2021



#11
 Trichlorofluoromethane
 Concen: 0.198 ppbv
 RT: 3.96 min Scan# 364
 Delta R.T. 0.00 min
 Lab File: VL038137.D
 Acq: 29 Nov 2021 16:17

Tgt Ion:101 Resp: 29058
 Ion Ratio Lower Upper
 101 100
 103 53.4 51.8 77.6



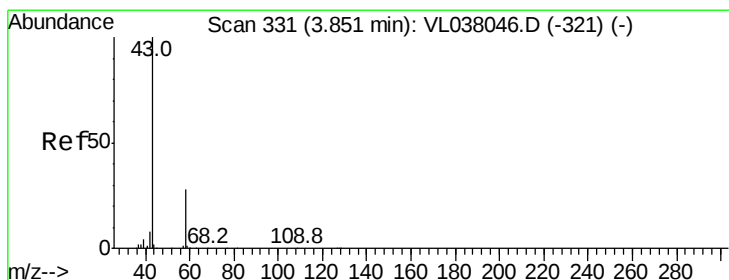
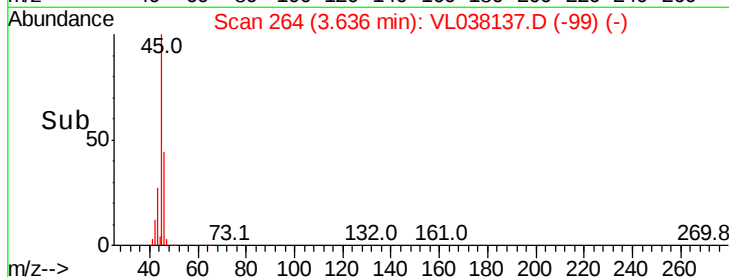
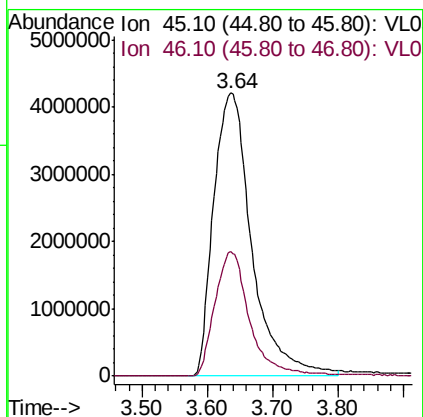
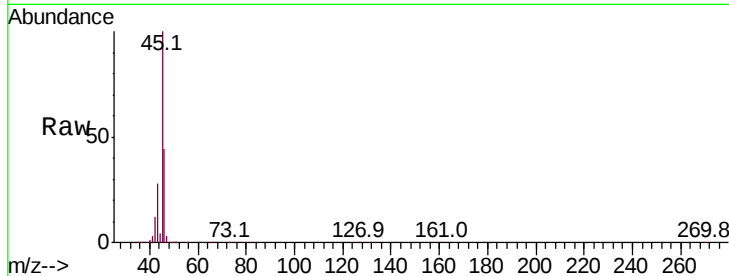


#13
Ethanol
Concen: 2445.954 ppbv
RT: 3.64
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 29 Nov 2021 16:17

Tot Ion:
Ion Ratio
45 100
46 41.

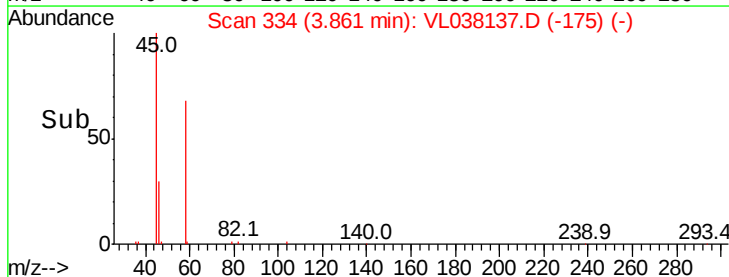
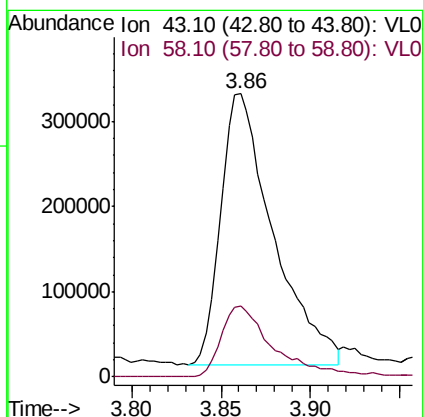
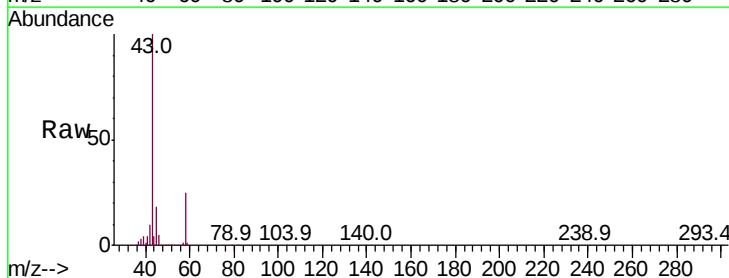
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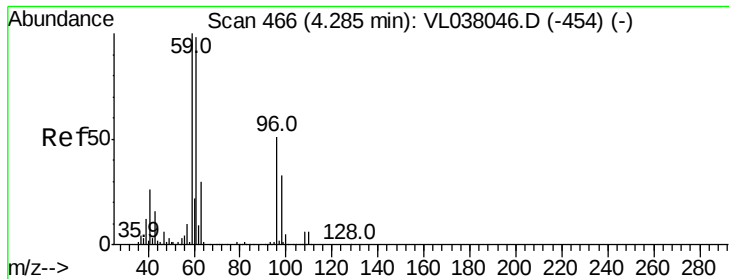
Reviewed By :Semsettin Yesilyurt 11/30/2021
Supervised By :Mahesh Dadoda 12/01/2021



#15
Acetone
Concen: 7.981 ppbv
RT: 3.86 min Scan# 334
Delta R.T. 0.01 min
Lab File: VL038137.D
Acq: 29 Nov 2021 16:17

Tgt Ion: 43 Resp: 646612
Ion Ratio Lower Upper
43 100
58 26.8 22.4 33.6





#17

tert-Butyl alcohol

Concen: 0.937 ppbv m

RT: 4.33 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 29 Nov 2021 16:17

Tot Ion:

Ion Ratio

59 100

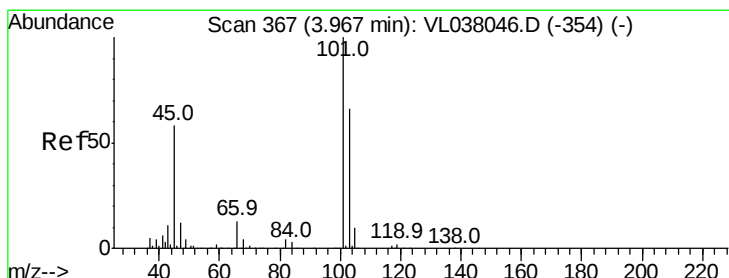
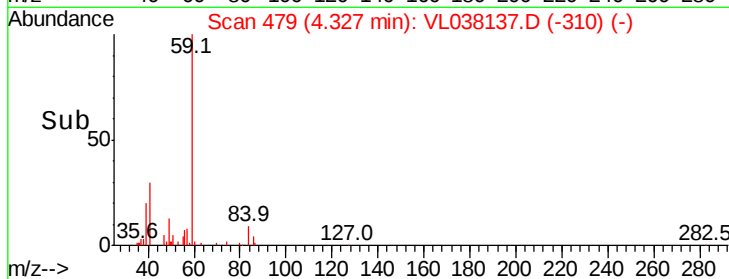
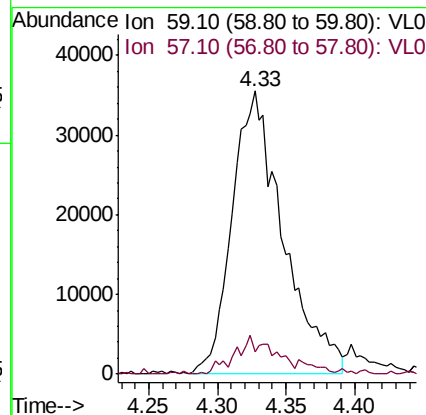
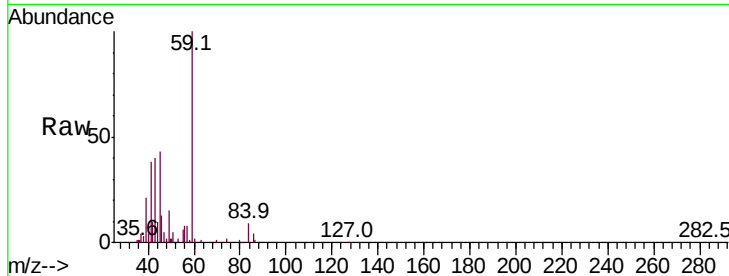
57 22.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/30/2021

Supervised By :Mahesh Dadoda 12/01/2021



#19

Isopropyl Alcohol

Concen: 86.840 ppbv

RT: 4.00 min Scan# 377

Delta R.T. 0.03 min

Lab File: VL038137.D

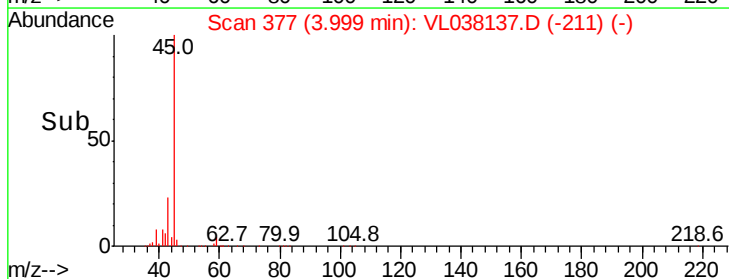
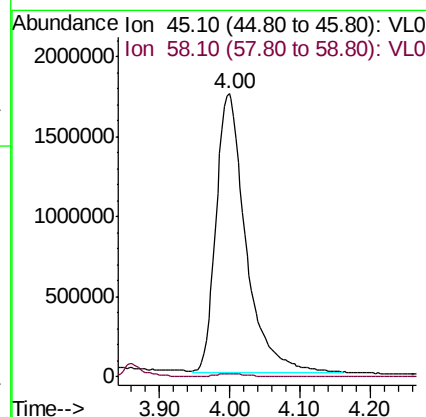
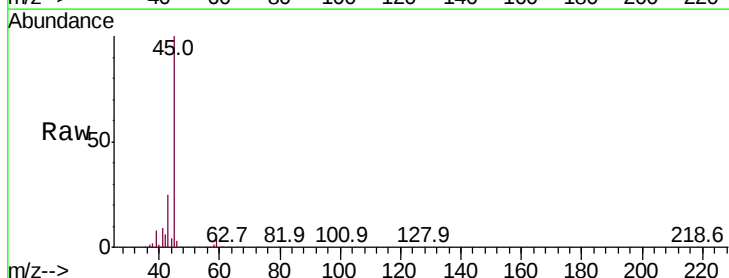
Acq: 29 Nov 2021 16:17

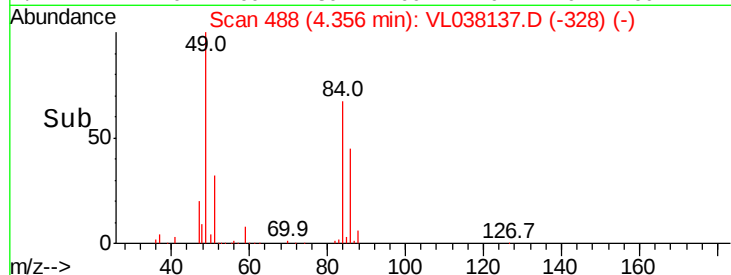
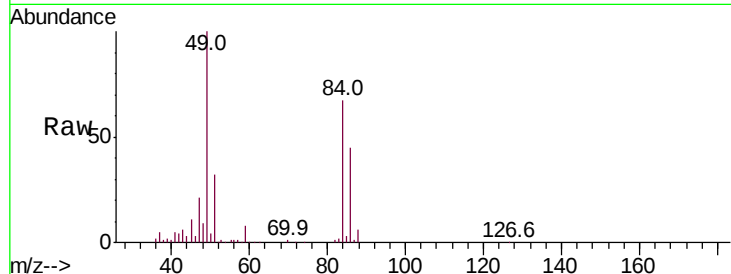
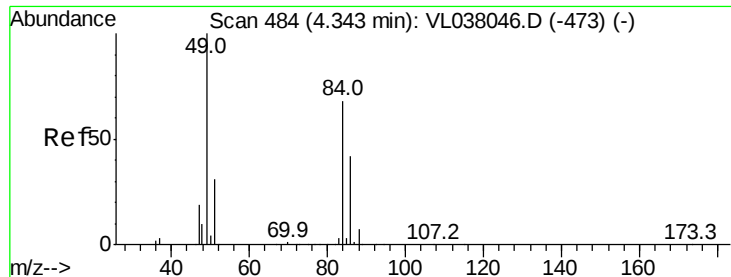
Tgt Ion: 45 Resp: 5083785

Ion Ratio Lower Upper

45 100

58 1.3 1.4 2.0#



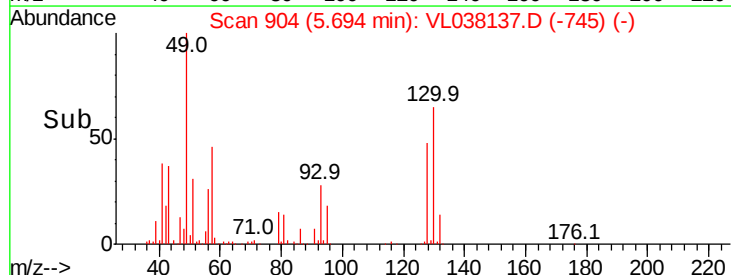
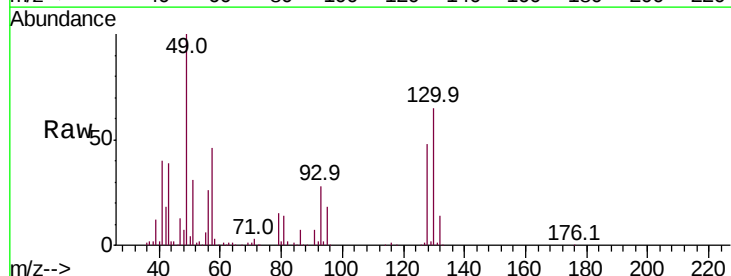
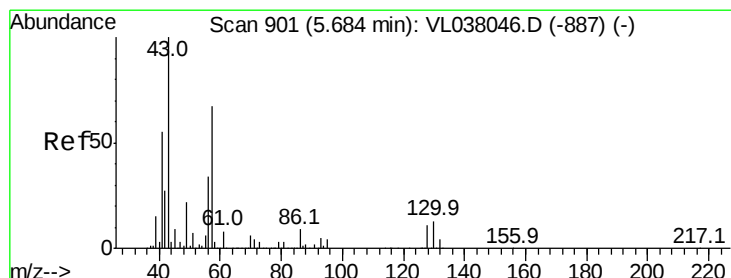
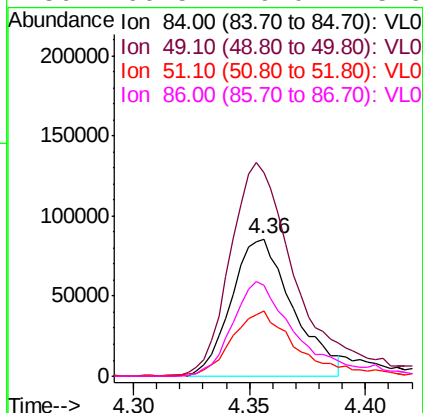


#20
Methvlene Chloride
Concen: 3.444 ppbv
RT: 4.36
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 29 Nov 2021 16:17

Tot Ion:
Ion Ratio
84 100
49 146.
51 46.
86 66.5 49.0 73.6

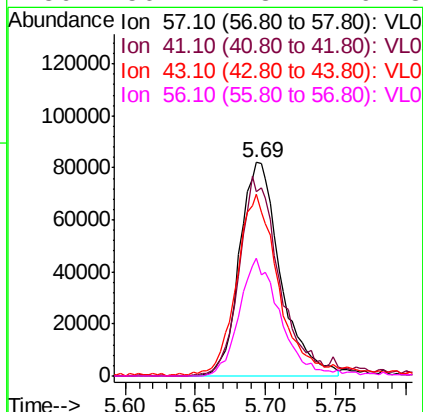
Manual Integrations
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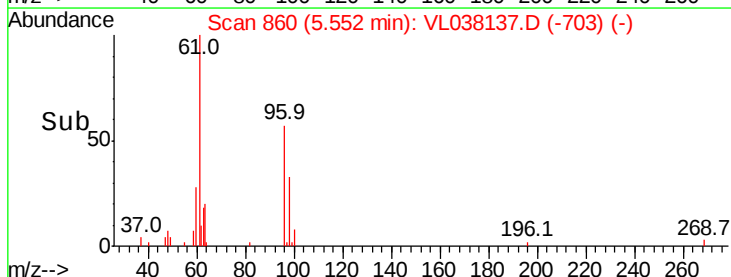
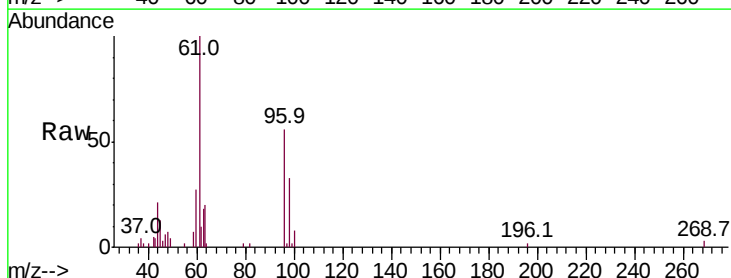
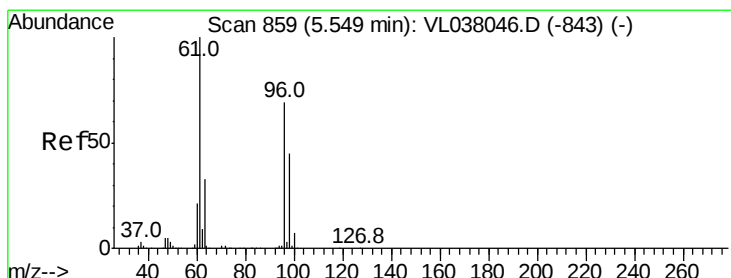
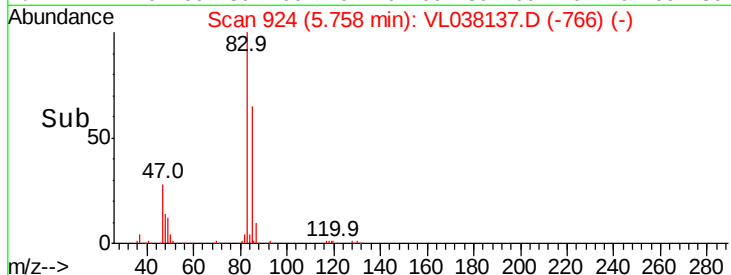
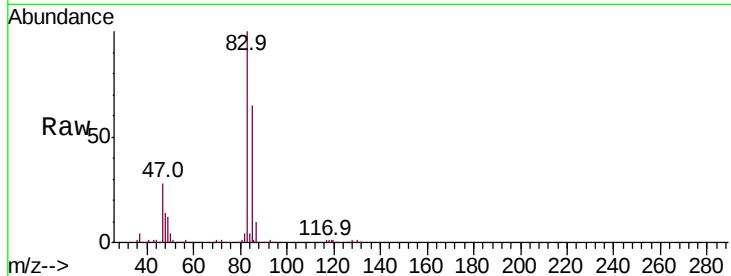
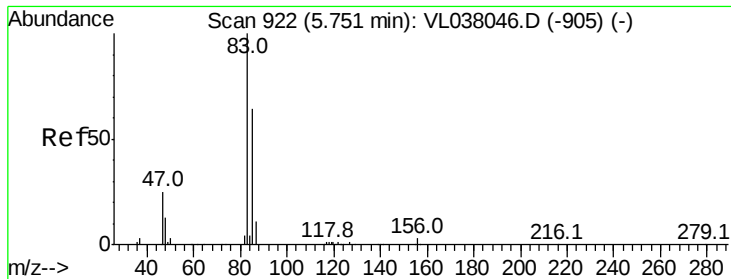
Reviewed By :Semsettin Yesilyurt 11/30/2021
Supervised By :Mahesh Dadoda 12/01/2021



#26
Hexane
Concen: 1.285 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.01 min
Lab File: VL038137.D
Acq: 29 Nov 2021 16:17

Tgt Ion: 57 Resp: 166792
Ion Ratio Lower Upper
57 100
41 97.2 71.4 107.2
43 90.9 174.6 261.8#
56 56.7 43.2 64.8





#29

Chloroform

Concen: 4.877 ppbv

RT: 5.76

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 29 Nov 2021 16:17

Tot Ion:

Ion Ratio

83 100

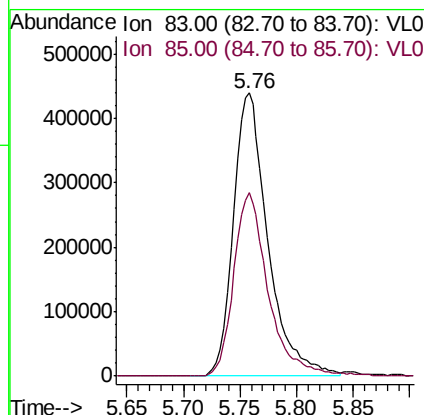
85 64.

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Reviewed By :Semsettin Yesilyurt 11/30/2021

Supervised By :Mahesh Dadoda 12/01/2021



#31

cis-1,2-Dichloroethene

Concen: 0.144 ppbv m

RT: 5.55 min Scan# 860

Delta R.T. 0.00 min

Lab File: VL038137.D

Acq: 29 Nov 2021 16:17

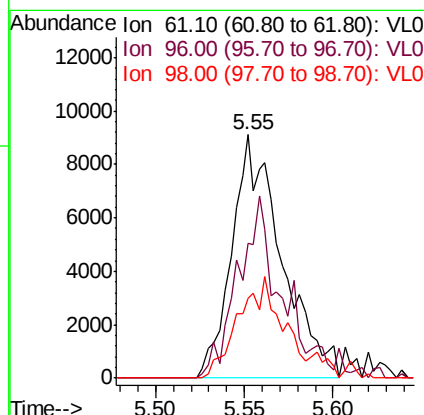
Tgt Ion: 61 Resp: 17786

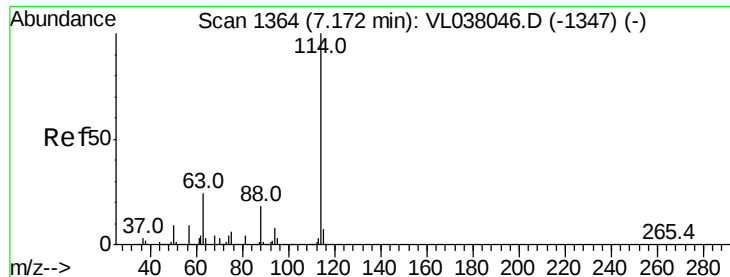
Ion Ratio Lower Upper

61 100

96 55.6 55.4 83.2

98 32.7 35.7 53.5#



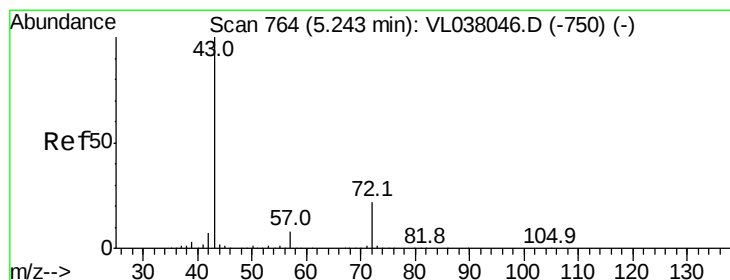
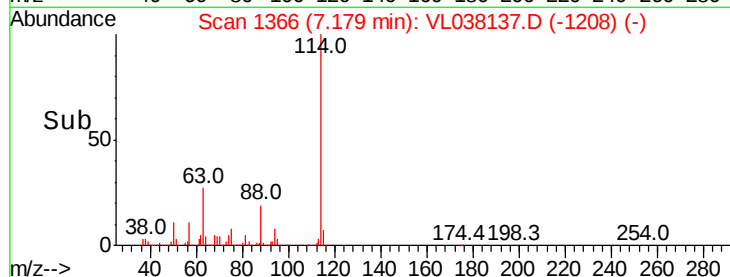
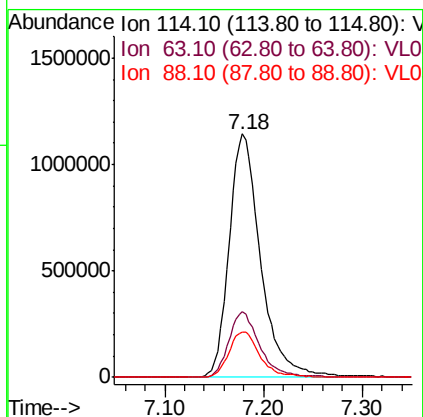
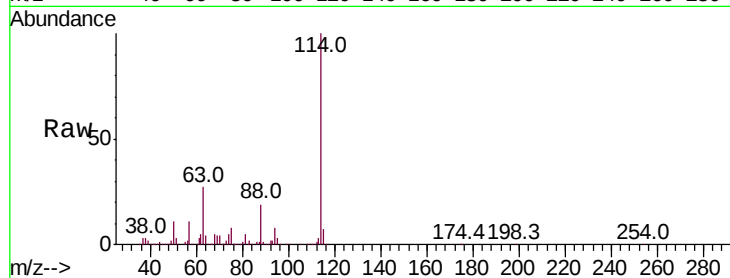


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 29 Nov 2021 16:17

Tot Ion: 1
 Ion Ratio
 114 100
 63 26.
 88 18.

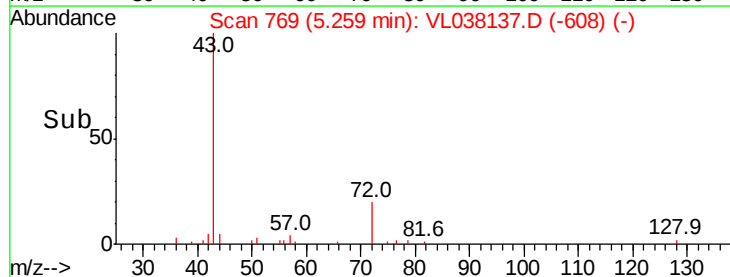
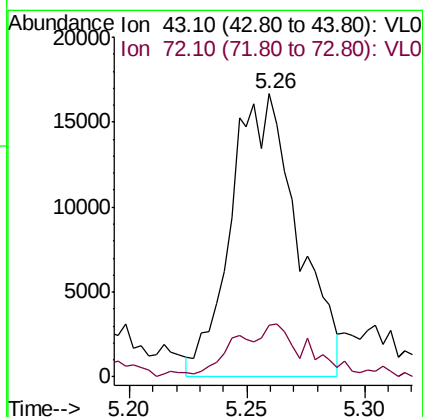
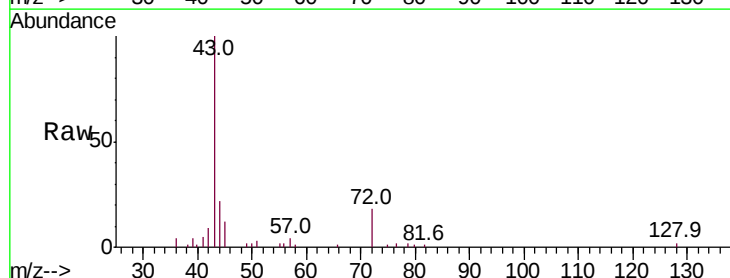
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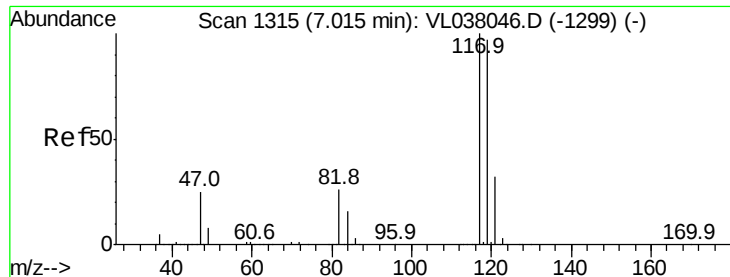
Reviewed By : Semsettin Yesilyurt 11/30/2021
 Supervised By : Mahesh Dadoda 12/01/2021



#34
 2-Butanone
 Concen: 0.321 ppbv m
 RT: 5.26 min Scan# 769
 Delta R.T.: 0.02 min
 Lab File: VL038137.D
 Acq: 29 Nov 2021 16:17

Tgt Ion: 43 Resp: 32955
 Ion Ratio Lower Upper
 43 100
 72 0.0 18.8 28.2#





#35

Carbon Tetrachloride

Concen: 0.055 ppbv m

RT: 7.03

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 29 Nov 2021 16:17

Tot Ion:1

Ion Rati

117 100

119 77.

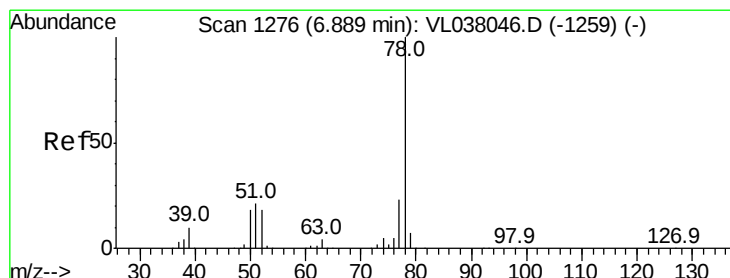
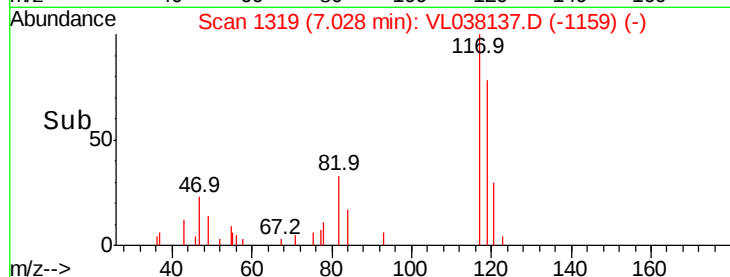
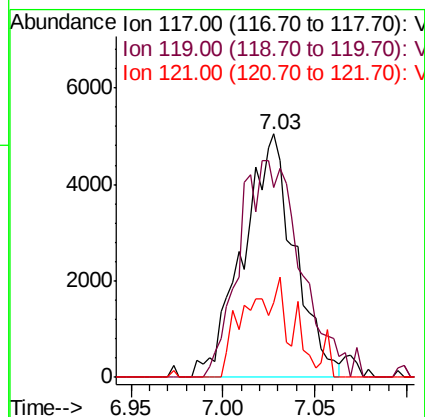
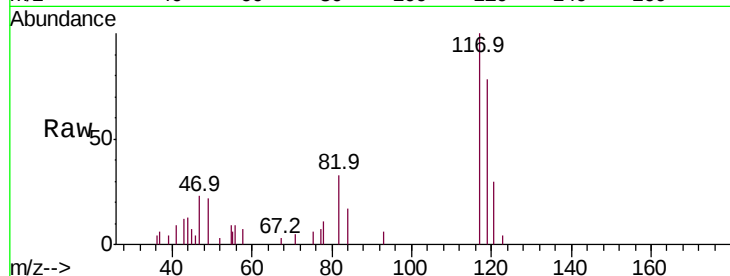
121 30.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/30/2021

Supervised By :Mahesh Dadoda 12/01/2021



#36

Benzene

Concen: 0.856 ppbv

RT: 6.90 min Scan# 1279

Delta R.T. 0.01 min

Lab File: VL038137.D

Acq: 29 Nov 2021 16:17

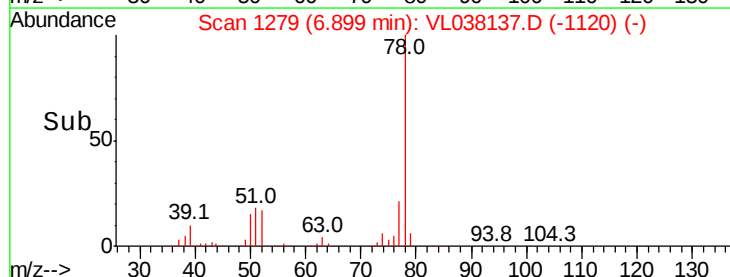
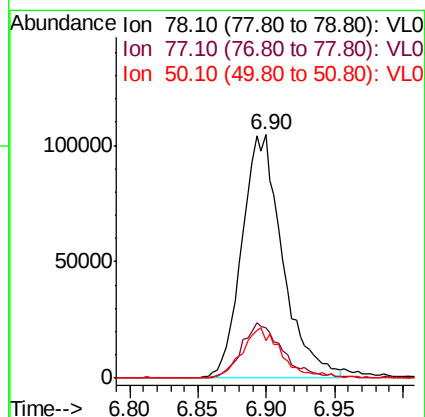
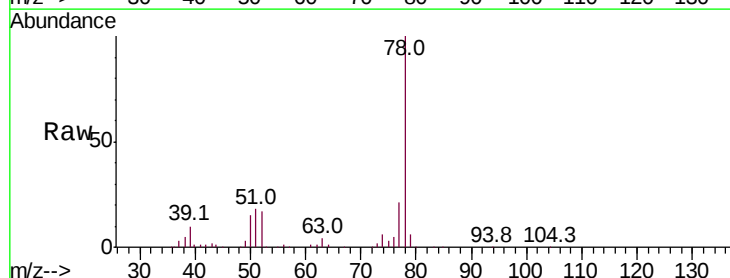
Tgt Ion: 78 Resp: 217427

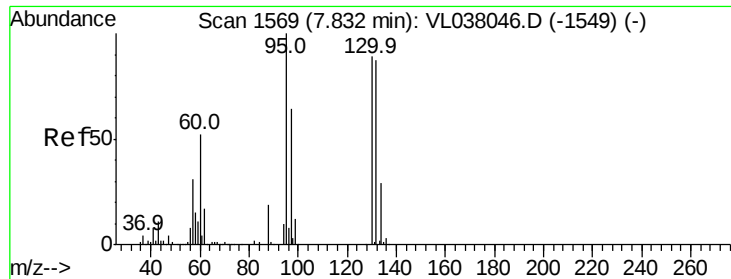
Ion Ratio Lower Upper

78 100

77 20.8 18.2 27.4

50 15.1 14.7 22.1





#38

Trichloroethene

Concen: 0.109 ppbv m

RT: 7.84 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 29 Nov 2021 16:17

Tot Ion:1

Ion Rati

130 100

95 94.

132 82.

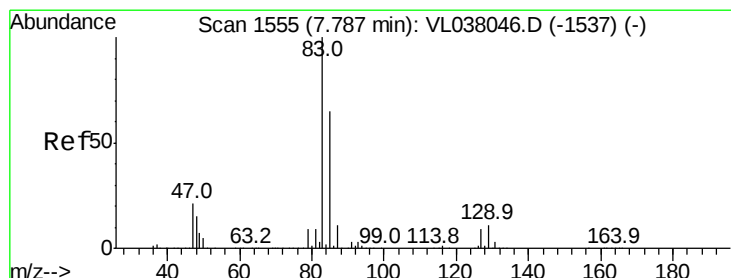
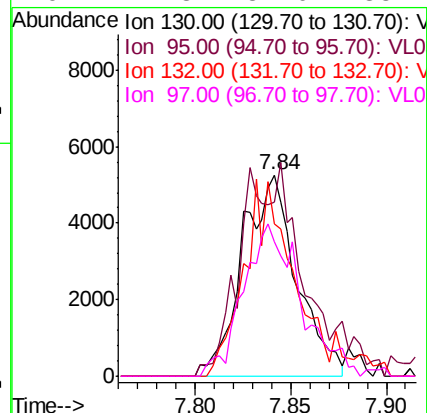
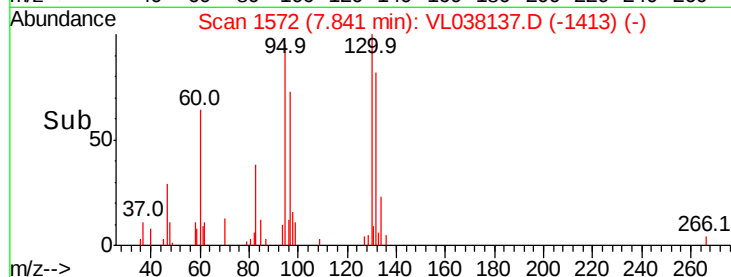
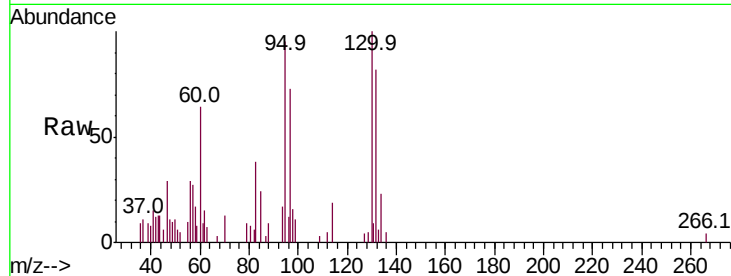
97 72.8

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Reviewed By :Semsettin Yesilyurt 11/30/2021

Supervised By :Mahesh Dadoda 12/01/2021



#42

Bromodichloromethane

Concen: 0.324 ppbv

RT: 7.80 min Scan# 1558

Delta R.T. 0.01 min

Lab File: VL038137.D

Acq: 29 Nov 2021 16:17

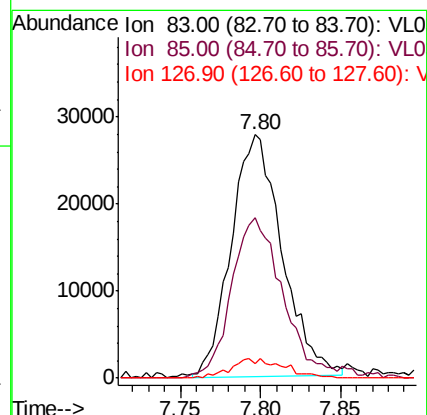
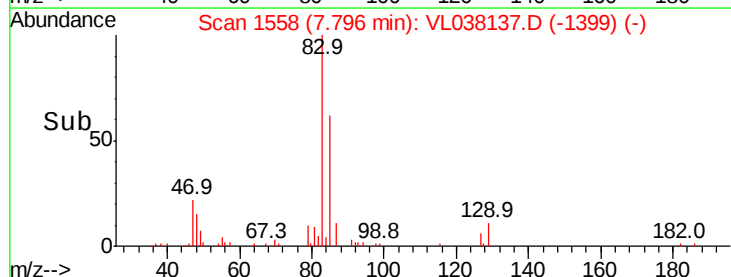
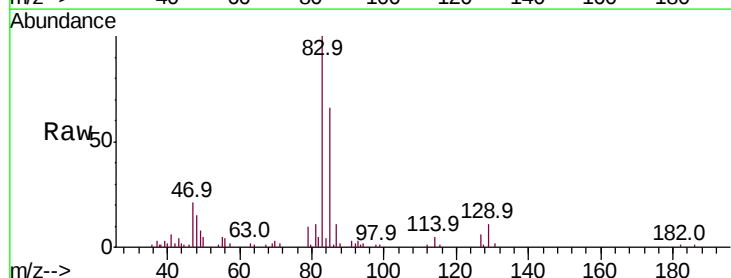
Tgt Ion: 83 Resp: 60319

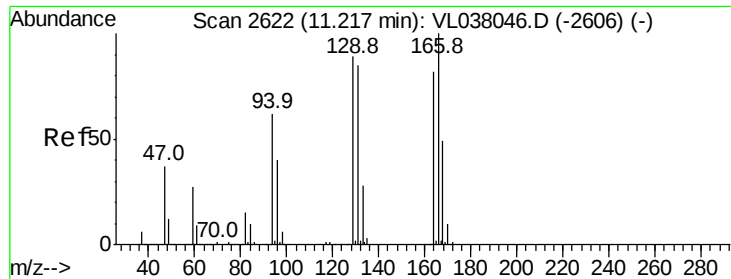
Ion Ratio Lower Upper

83 100

85 65.0 51.9 77.9

127 6.4 6.8 10.2#





#52

Tetrachloroethene

Concen: 33.568 ppbv

RT: 11.23

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 29 Nov 2021 16:17

Tot Ion:1

Ion Rati

164 100

166 124.

129 107.

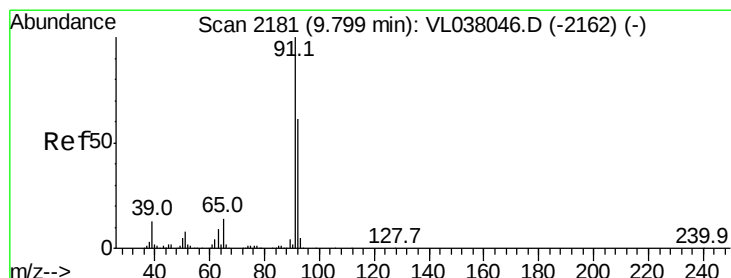
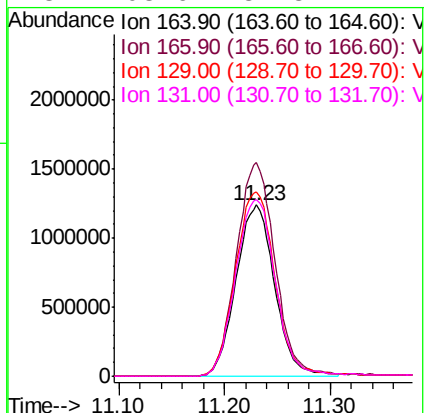
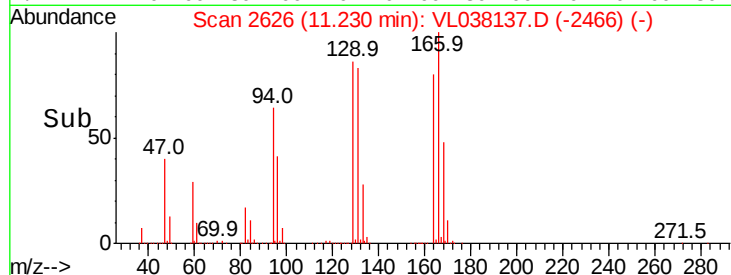
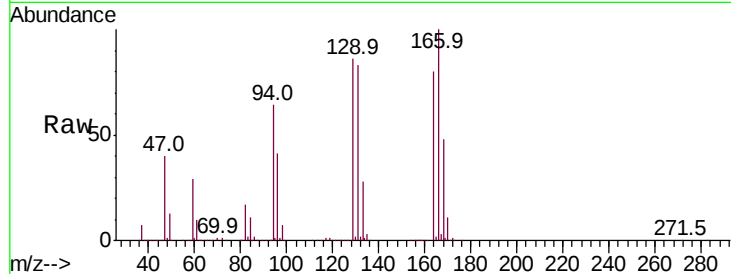
131 103.6 82.8 124.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/30/2021

Supervised By :Mahesh Dadoda 12/01/2021



#53

Toluene

Concen: 0.416 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. 0.01 min

Lab File: VL038137.D

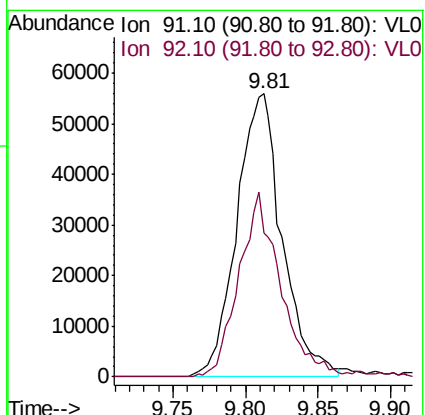
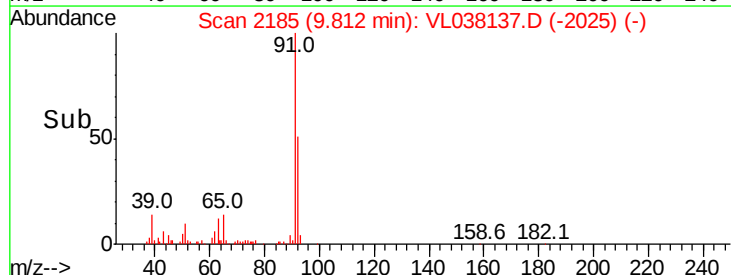
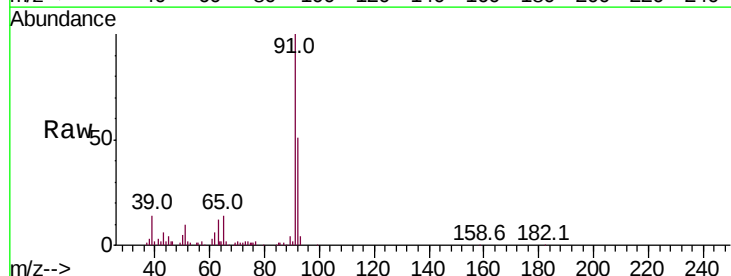
Acq: 29 Nov 2021 16:17

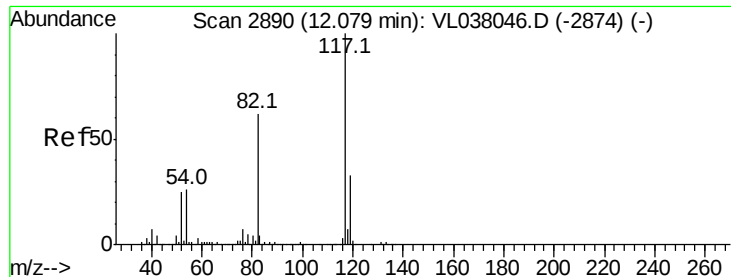
Tgt Ion: 91 Resp: 121416

Ion Ratio Lower Upper

91 100

92 61.3 49.7 74.5



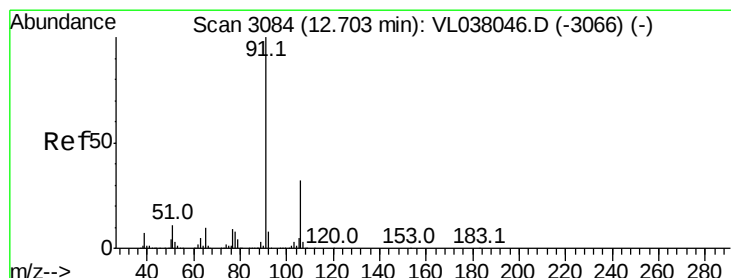
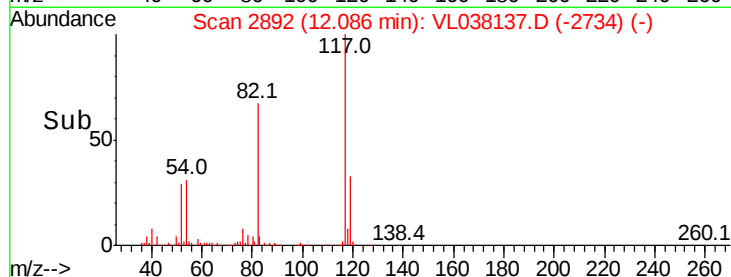
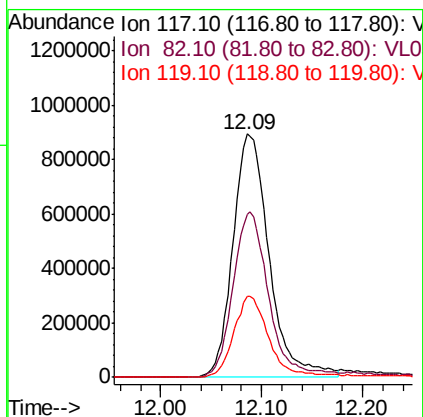
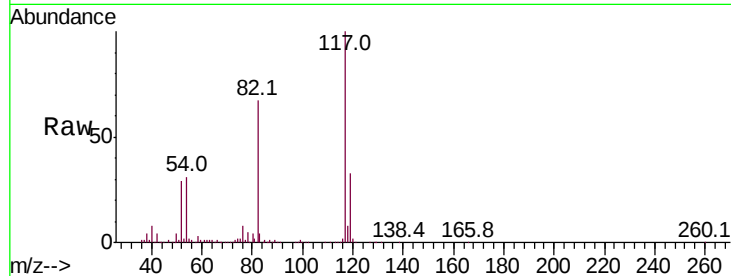


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 29 Nov 2021 16:17

Tot Ion: 1
Ion Ratio
117 100
82 71.
119 34.

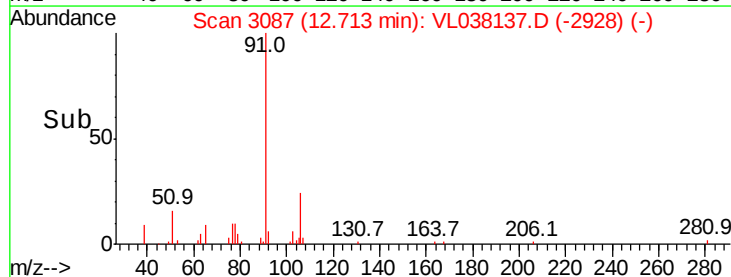
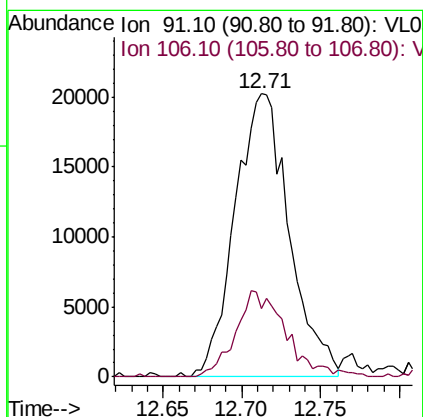
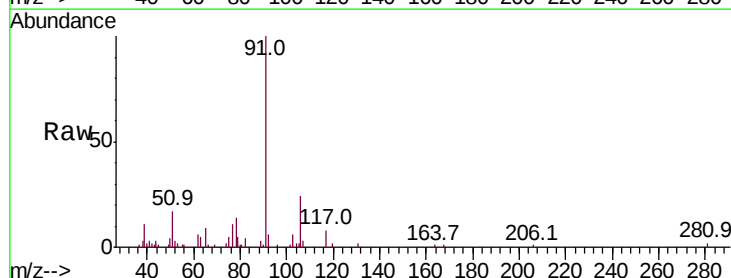
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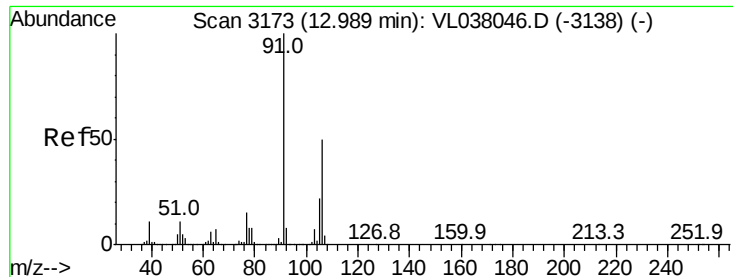
Reviewed By : Semsettin Yesilyurt 11/30/2021
Supervised By : Mahesh Dadoda 12/01/2021



#58
Ethyl Benzene
Concen: 0.131 ppbv m
RT: 12.71 min Scan# 3087
Delta R.T.: 0.01 min
Lab File: VL038137.D
Acq: 29 Nov 2021 16:17

Tgt Ion: 91 Resp: 48201
Ion Ratio Lower Upper
91 100
106 24.2 25.8 38.6#



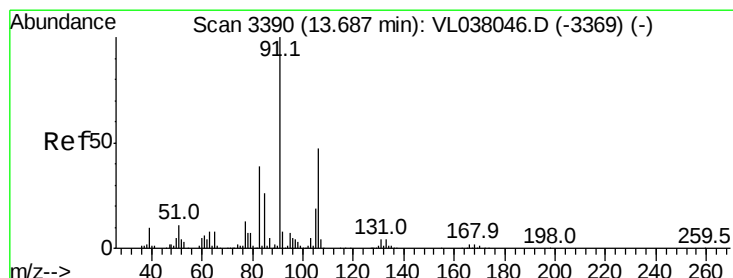
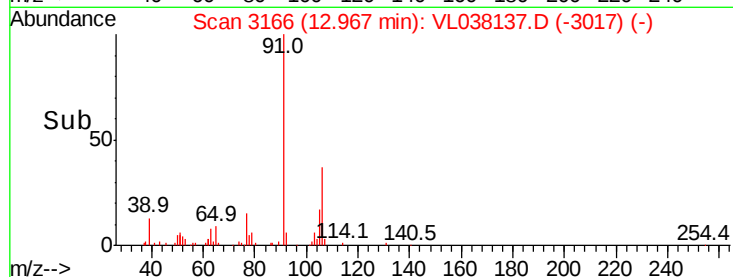
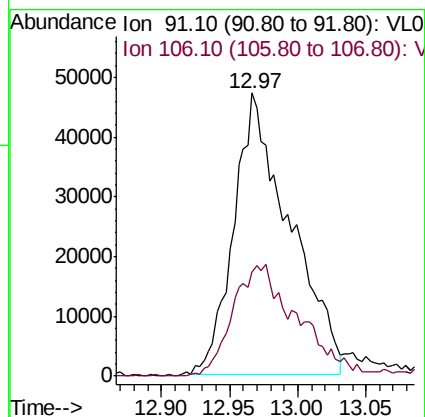
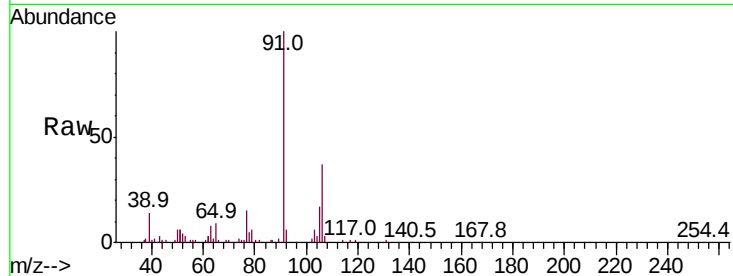


#59
m/p-Xylene
Concen: 0.431 ppbv
RT: 12.97 min
Delta R.T.: 0.00 min
Lab File: VL038137.D
Acq: 29 Nov 2021 16:17

Tot Ion:
Ion Ratio
91 100
106 45.

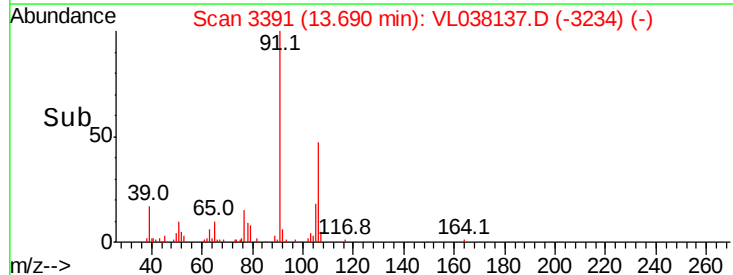
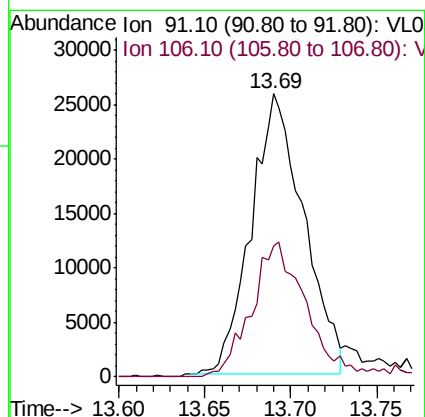
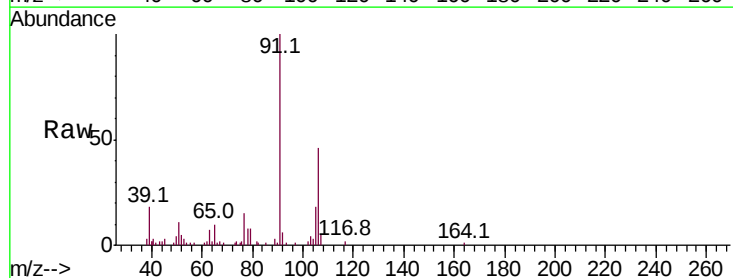
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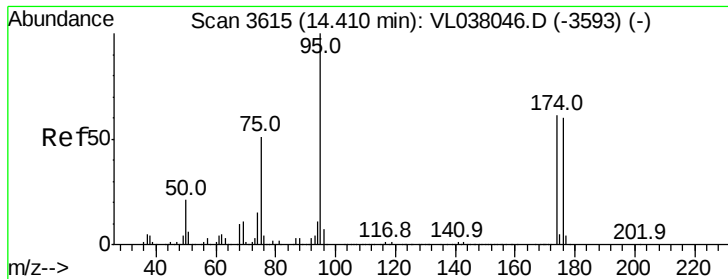
Reviewed By :Semsettin Yesilyurt 11/30/2021
Supervised By :Mahesh Dadoda 12/01/2021



#60
o-Xylene
Concen: 0.191 ppbv
RT: 13.69 min Scan# 3391
Delta R.T.: 0.00 min
Lab File: VL038137.D
Acq: 29 Nov 2021 16:17

Tgt Ion: 91 Resp: 55041
Ion Ratio Lower Upper
91 100
106 52.2 24.2 72.6



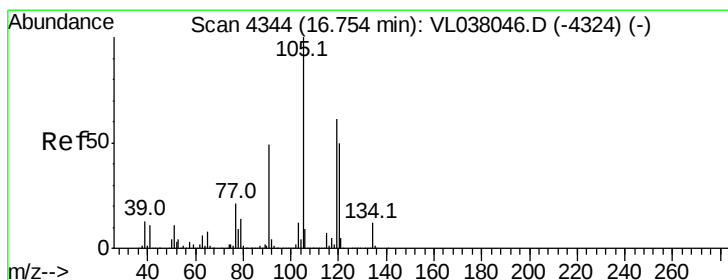
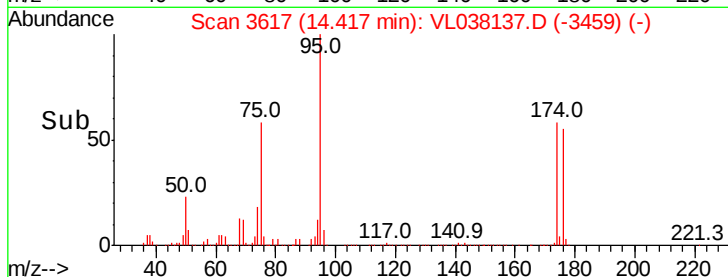
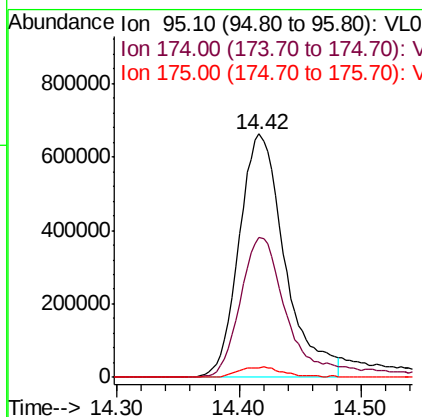
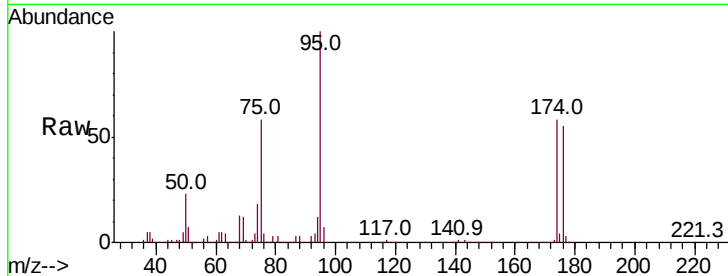


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.642 ppbv
 RT: 14.42
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 29 Nov 2021 16:17

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

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 11/30/2021
 Supervised By :Mahesh Dadoda 12/01/2021



#74
 1,2,4-Trimethylbenzene
 Concen: 0.104 ppbv m
 RT: 16.75 min Scan# 4344
 Delta R.T. 0.00 min
 Lab File: VL038137.D
 Acq: 29 Nov 2021 16:17

Tgt Ion:105 Resp: 32588
 Ion Ratio Lower Upper
 105 100
 120 42.1 40.1 60.1
 91 17.4 39.8 59.8#
 77 16.4 16.6 25.0#

