

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032322\
 Data File : VL038721.D
 Acq On : 23 Mar 2022 18:31
 Operator : SY/AP
 Sample : N2047-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 C0P99

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/24/2022
 Supervised By : Mahesh Dadoda 03/28/2022

Quant Time: Apr 02 04:44:34 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032122A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Mon Mar 21 17:09:26 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	727677	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	1940241	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	1859827	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	1329780	9.33	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	28049	0.287	ppbv	97
3) Chlorodifluoromethane	2.98	51	29693m	0.386	ppbv	
4) Chloromethane	3.14	50	9127	0.216	ppbv	91
9) Propene	3.01	41	68472m	1.845	ppbv	
11) Trichlorofluoromethane	3.94	101	25941	0.300	ppbv	86
13) Ethanol	3.60	45	128416	31.375	ppbv	95
15) Acetone	3.84	43	822105	13.093	ppbv #	89
17) tert-Butyl alcohol	4.29	59	19545m	0.356	ppbv	
19) Isopropyl Alcohol	3.97	45	29807	0.856	ppbv #	91
20) Methylene Chloride	4.34	84	104209	3.940	ppbv	99
26) Hexane	5.67	57	62357	0.881	ppbv #	39
27) Carbon Disulfide	4.54	76	8360m	0.120	ppbv	
29) Chloroform	5.74	83	47116	0.416	ppbv	94
31) cis-1,2-Dichloroethene	5.54	61	7178m	0.108	ppbv	
34) 2-Butanone	5.23	43	785623	10.230	ppbv	94
35) Carbon Tetrachloride	7.01	117	8664m	0.077	ppbv	
36) Benzene	6.88	78	19768	0.132	ppbv	96
38) Trichloroethene	7.82	130	22184	0.354	ppbv #	90
51) 2-Hexanone	10.12	43	58897	0.574	ppbv #	99
52) Tetrachloroethene	11.22	164	6510874	118.815	ppbv	96
53) Toluene	9.79	91	58331	0.363	ppbv	97
59) m/p-Xylene	12.95	91	26370m	0.139	ppbv	

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

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C0P99

Manual Integrations
APPROVED

Quant Time: Apr 02 04:44:34 2022

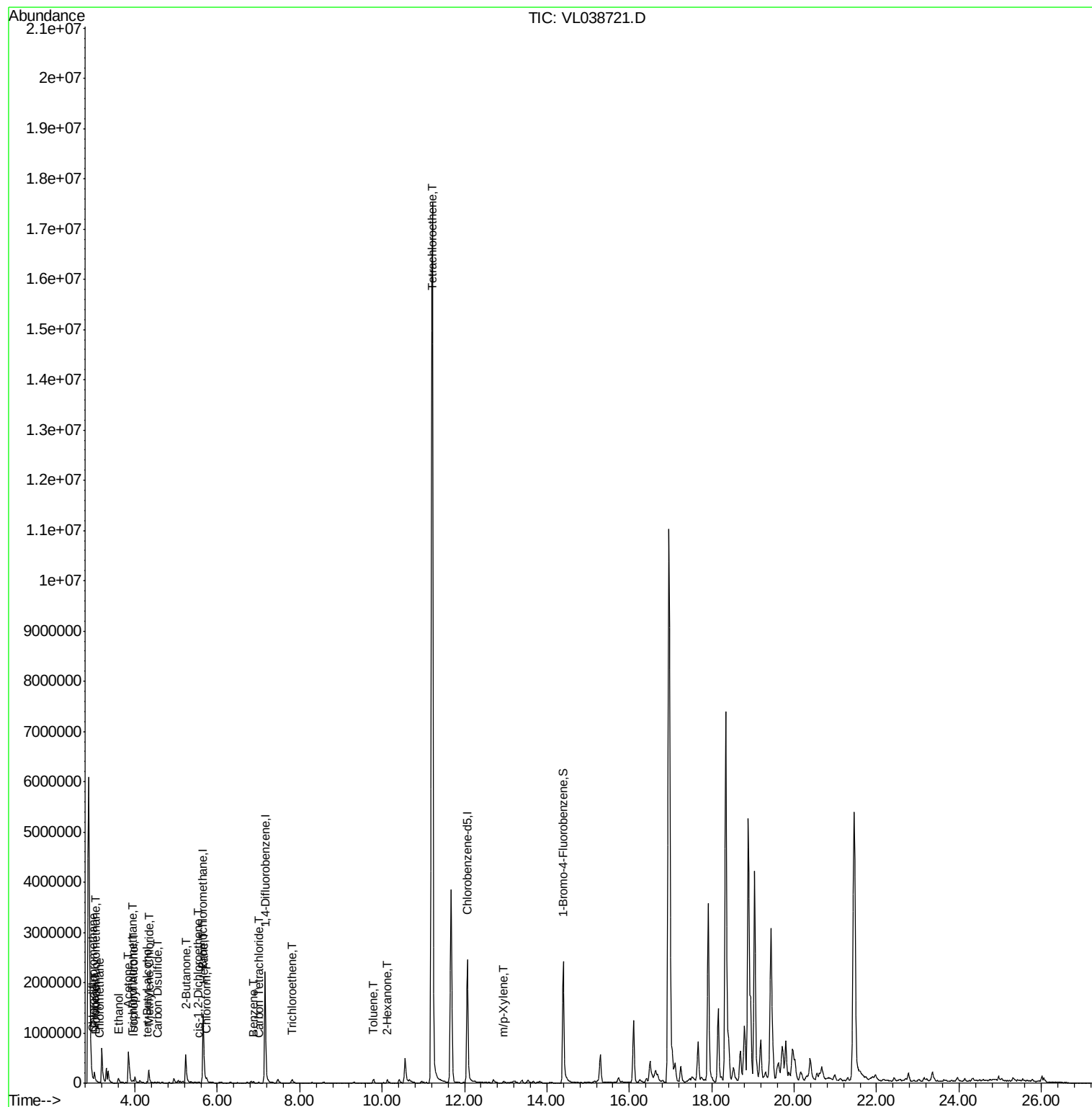
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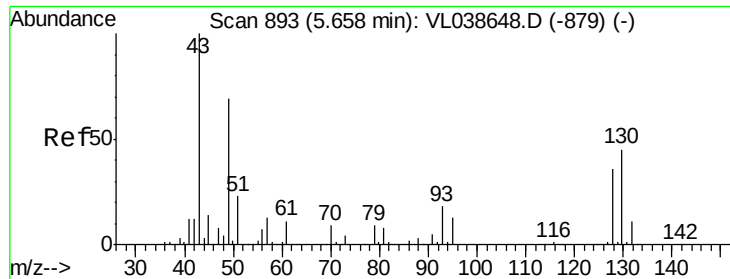
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

QLast Update : Mon Mar 21 17:09:26 2022

Response via : Initial Calibration

Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/28/2022



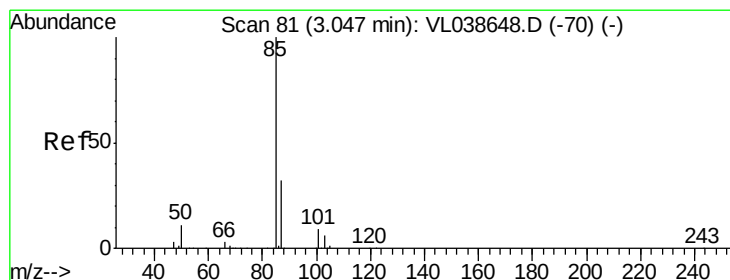
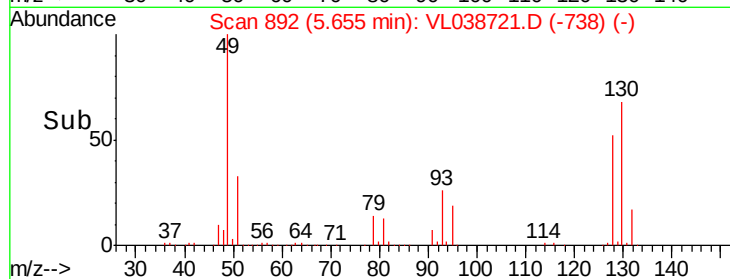
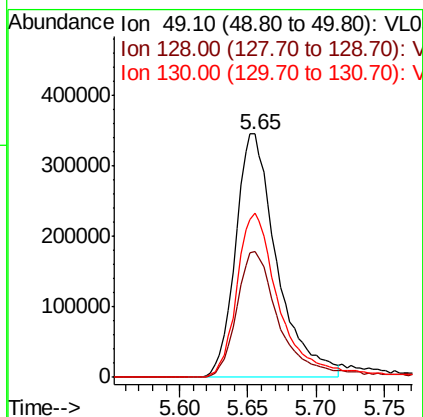
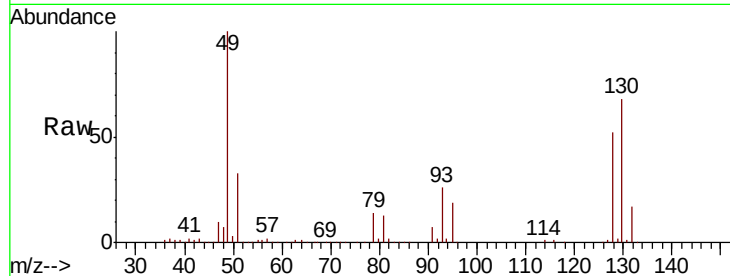


#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.65 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 23 Mar 2022 18:31

Tot Ion:
 Ion Ratio
 49 100
 128 55.
 130 72.

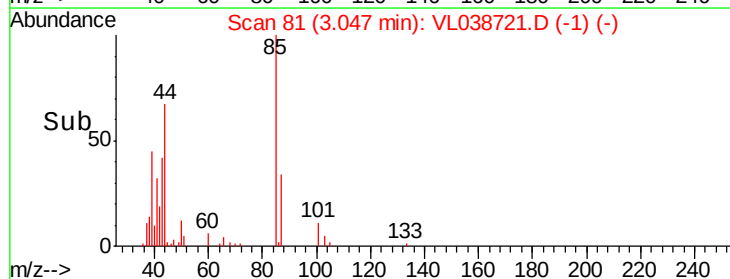
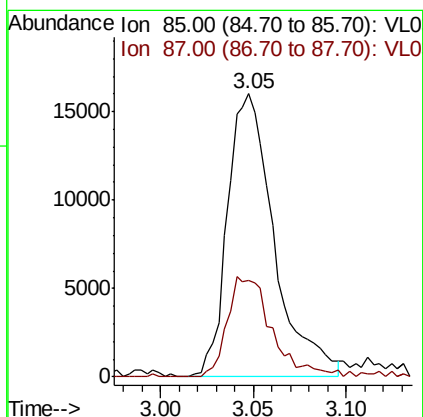
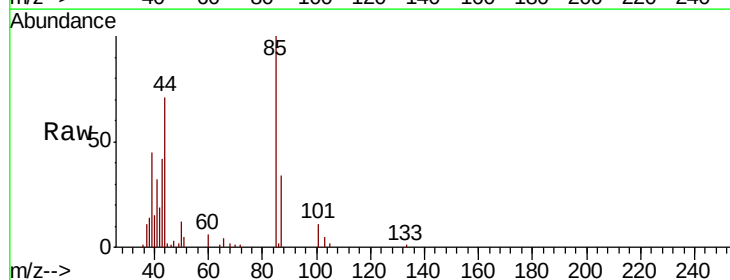
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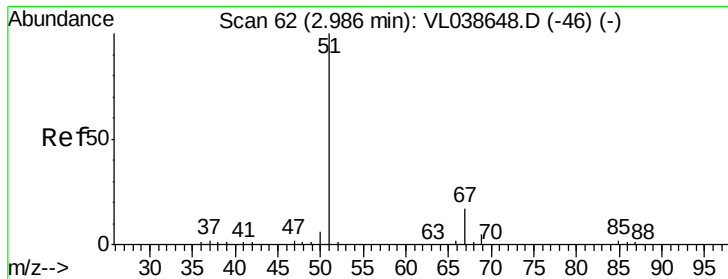
Reviewed By :Semsettin Yesilyurt 03/24/2022
 Supervised By :Mahesh Dadoda 03/28/2022



#2
 Dichlorodifluoromethane
 Concen: 0.287 ppbv
 RT: 3.05 min Scan# 81
 Delta R.T.: -0.00 min
 Lab File: VL038721.D
 Acq: 23 Mar 2022 18:31

Tgt Ion: 85 Resp: 28049
 Ion Ratio Lower Upper
 85 100
 87 34.0 26.0 39.0





#3

Chlorodifluoromethane

Concen: 0.386 ppbv m

RT: 2.98 Instrument: MSVOA_1

Delta R.T. -0.00 min

Lab File: C:\P99

Acq: 23 Mar 2022 18:31

Tot Ion:

Ion Ratio

51 100

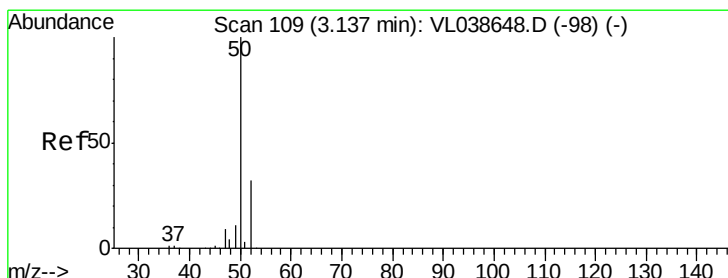
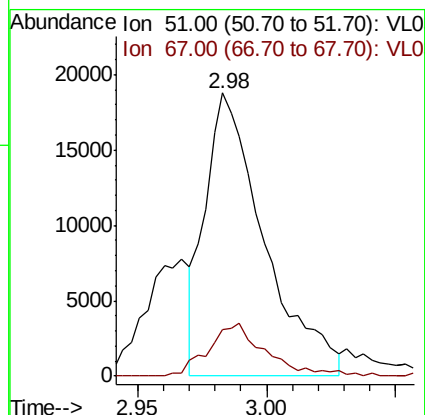
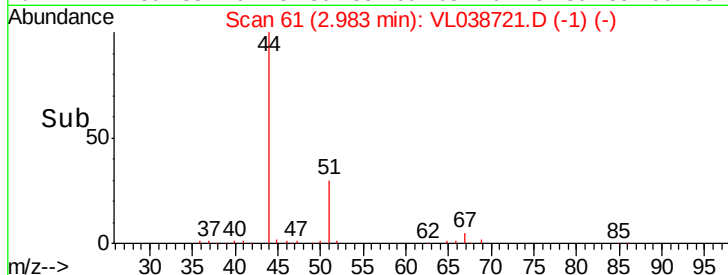
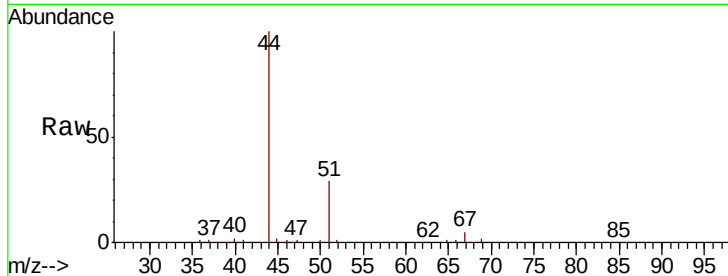
67 18.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/24/2022

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#4

Chloromethane

Concen: 0.216 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.00 min

Lab File: VL038721.D

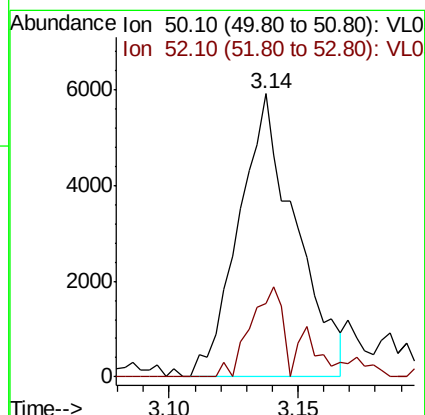
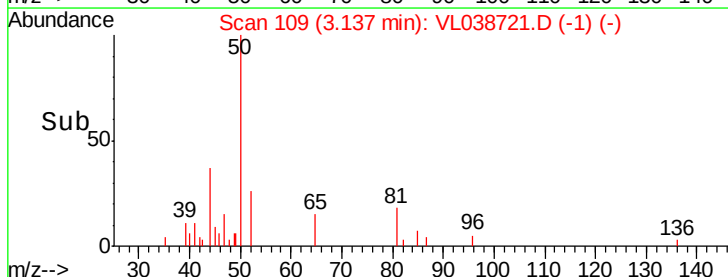
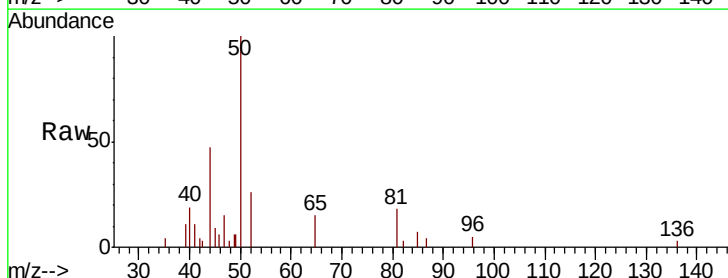
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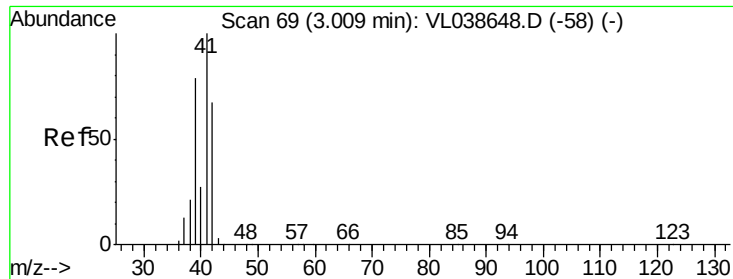
Tgt Ion: 50 Resp: 9127

Ion Ratio Lower Upper

50 100

52 27.1 25.5 38.3





#9

Propene

Concen: 1.845 ppbv m

RT: 3.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Mar 2022 18:31 COP99

Tot Ion:

Ion Ratio

41 100

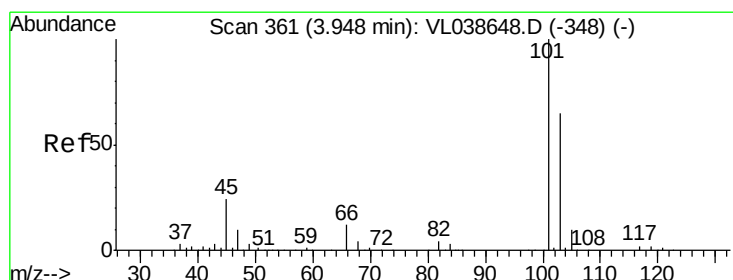
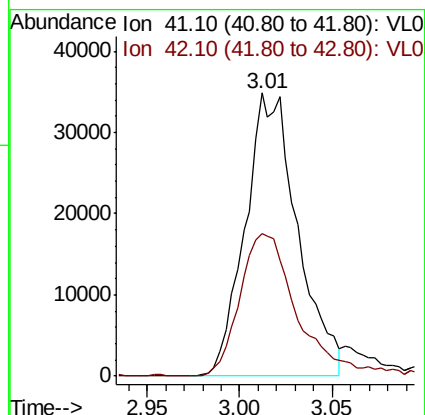
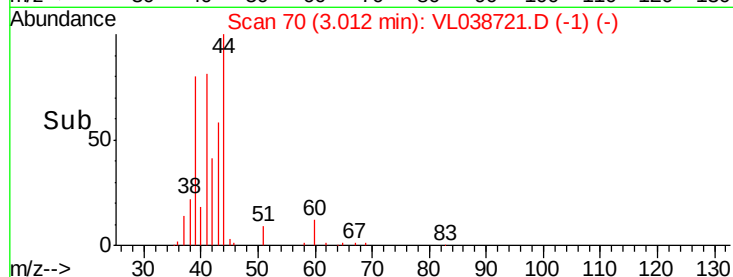
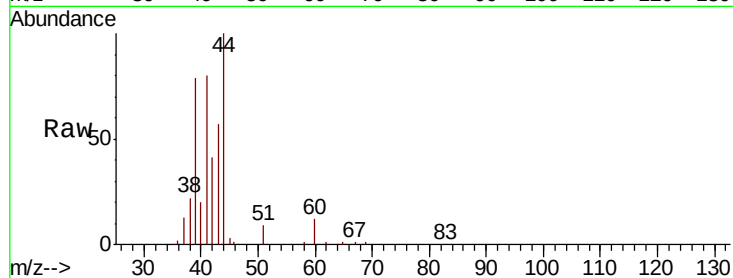
42 56.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/24/2022

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#11

Trichlorofluoromethane

Concen: 0.300 ppbv

RT: 3.94 min Scan# 360

Delta R.T. -0.00 min

Lab File: VL038721.D

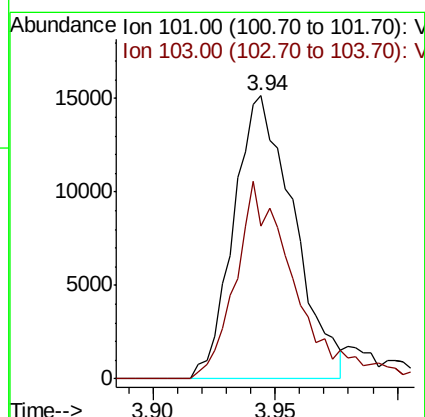
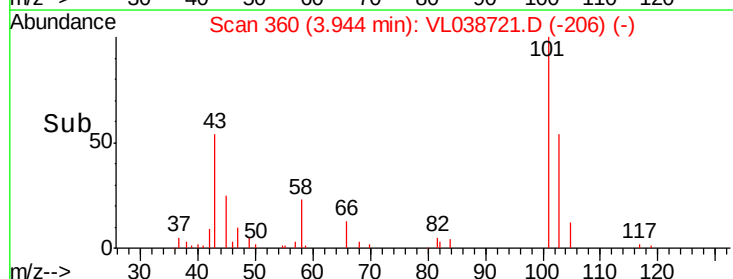
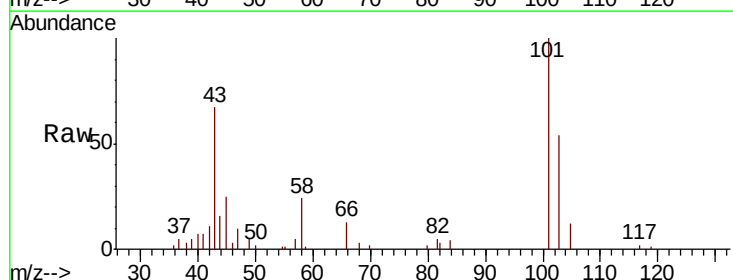
Acq: 23 Mar 2022 18:31

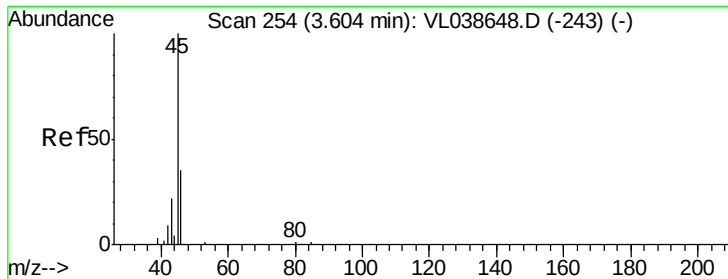
Tgt Ion:101 Resp: 25941

Ion Ratio Lower Upper

101 100

103 54.2 51.9 77.9



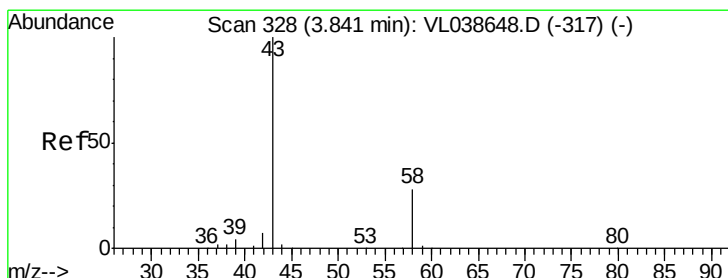
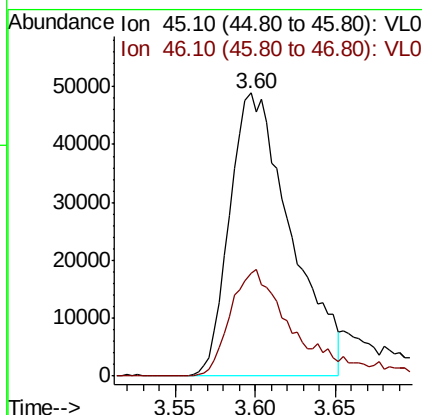
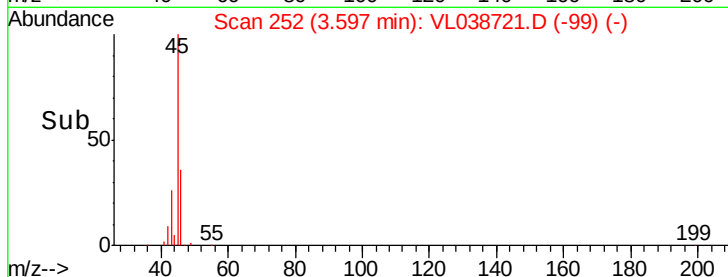
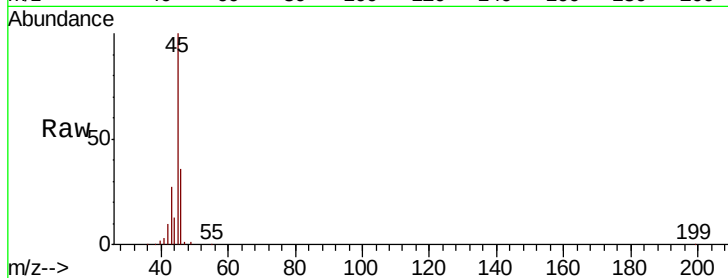


#13
Ethanol
Concen: 31.375 ppbv
RT: 3.60
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 Mar 2022 18:31

Tot Ion:
Ion Ratio
45 100
46 40.

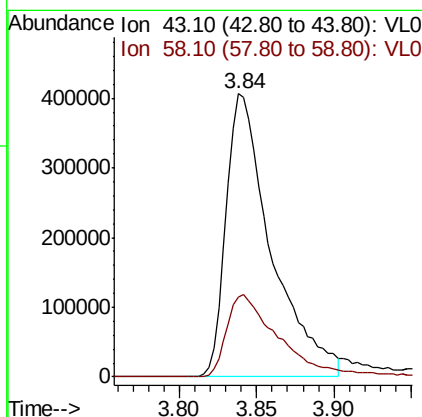
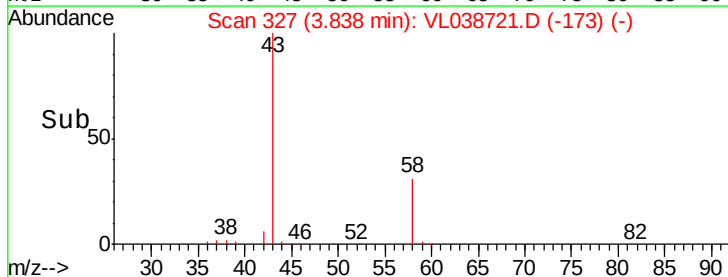
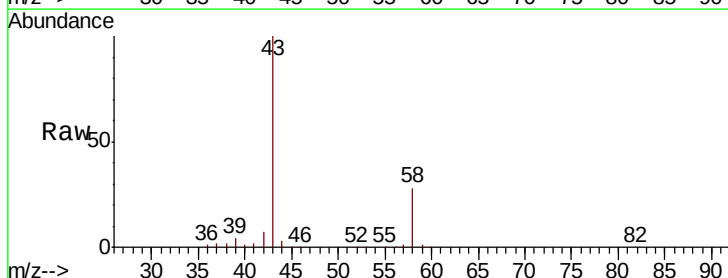
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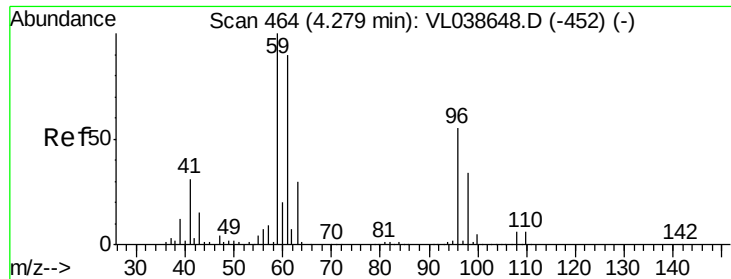
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/28/2022



#15
Acetone
Concen: 13.093 ppbv
RT: 3.84 min Scan# 327
Delta R.T. -0.00 min
Lab File: VL038721.D
Acq: 23 Mar 2022 18:31

Tgt Ion: 43 Resp: 822105
Ion Ratio Lower Upper
43 100
58 35.2 23.3 34.9#



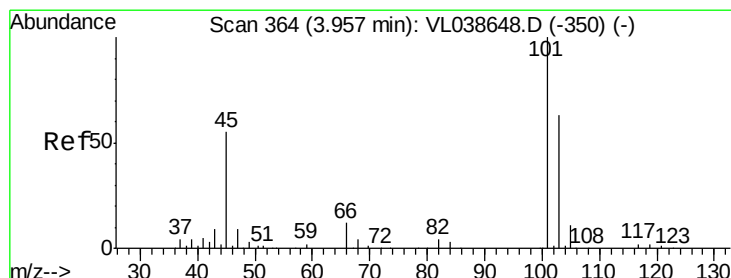
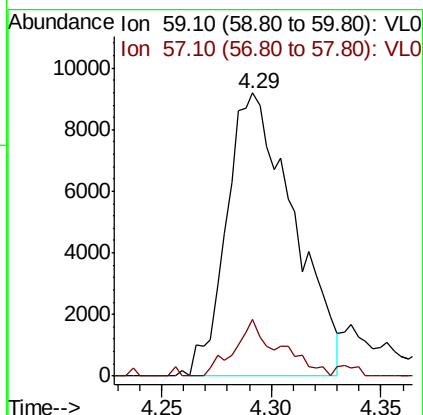
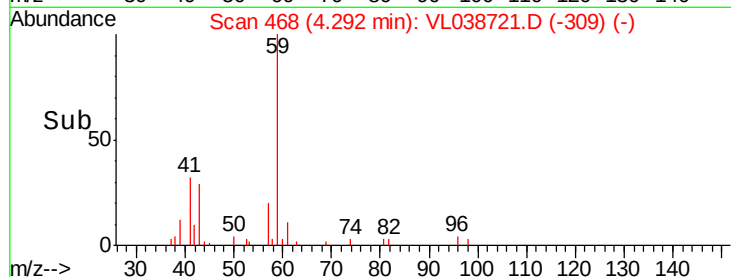
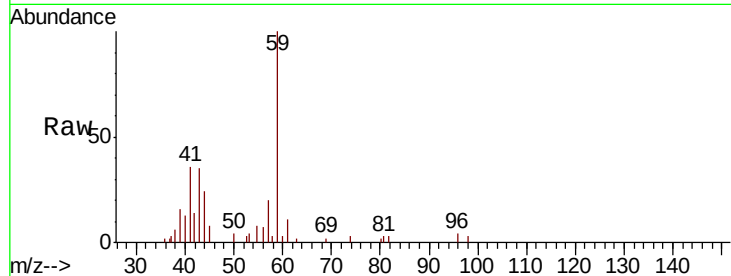


#17
tert-Butyl alcohol
Concen: 0.356 ppbv m
RT: 4.29
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
Acq: 23 Mar 2022 18:31

Tot Ion:
Ion Ratio
59 100
57 0.

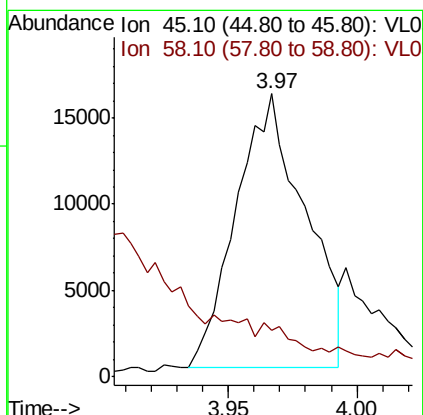
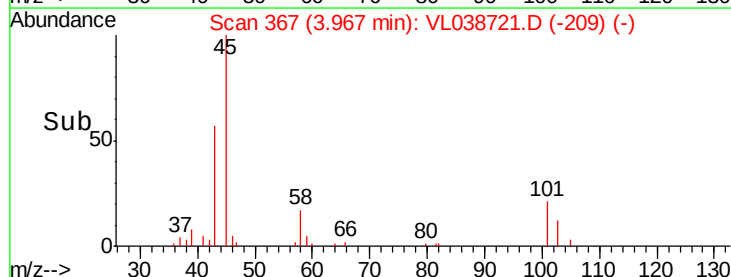
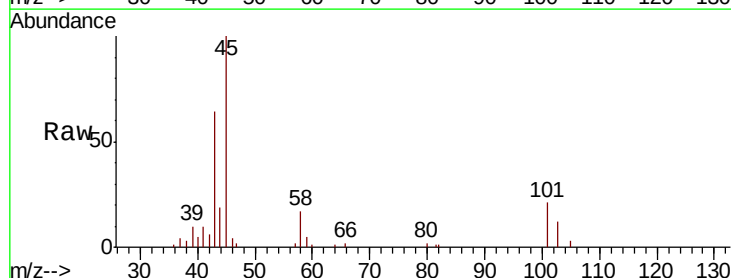
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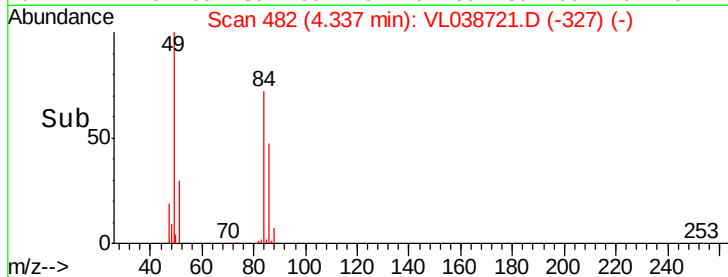
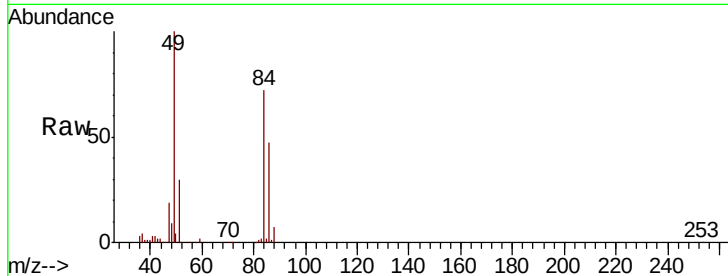
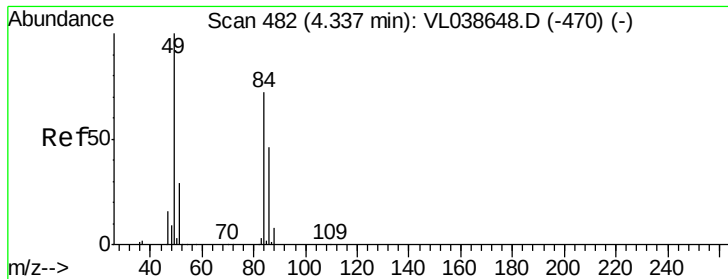
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/28/2022



#19
Isopropyl Alcohol
Concen: 0.856 ppbv
RT: 3.97 min Scan# 367
Delta R.T. 0.01 min
Lab File: VL038721.D
Acq: 23 Mar 2022 18:31

Tgt Ion: 45 Resp: 29807
Ion Ratio Lower Upper
45 100
58 0.0 2.3 3.5#



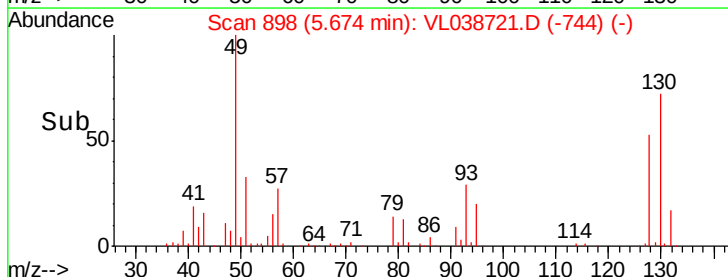
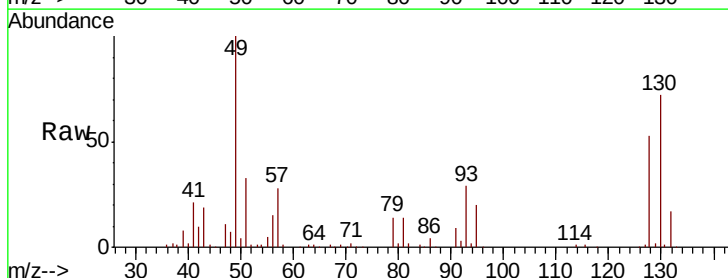
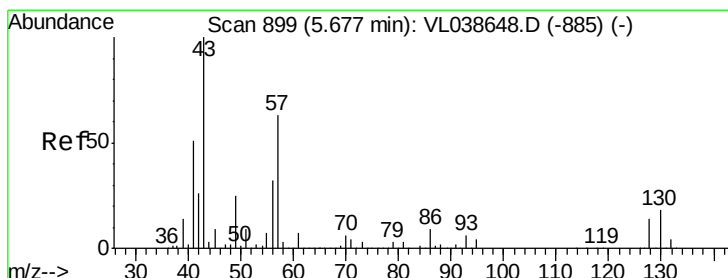
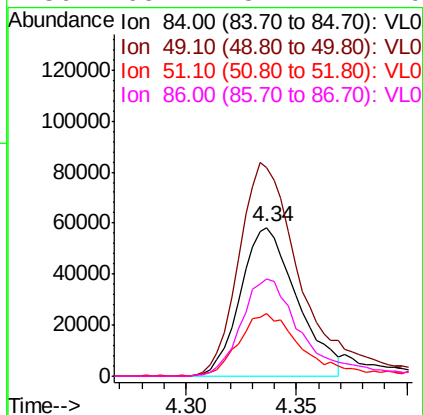


#20
Methvlene Chloride
Concen: 3.940 ppbv
RT: 4.34
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
Acq: 23 Mar 2022 18:31
COP99

Tot Ion:
Ion Ratio
84 100
49 138.
51 41.
86 65.4 51.4 77.0

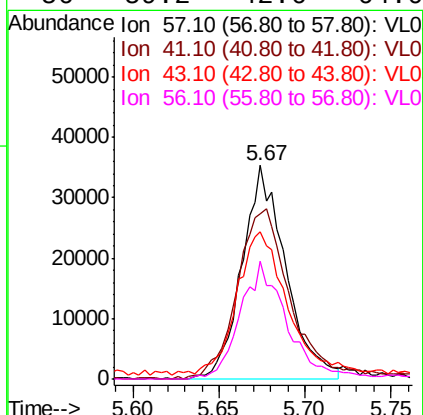
Manual Integrations
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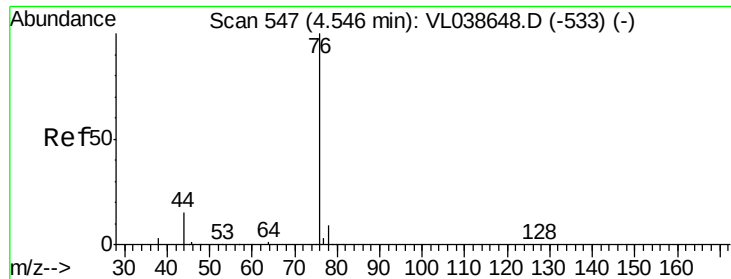
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/28/2022



#26
Hexane
Concen: 0.881 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.00 min
Lab File: VL038721.D
Acq: 23 Mar 2022 18:31

Tgt Ion: 57 Resp: 62357
Ion Ratio Lower Upper
57 100
41 98.6 67.0 100.4
43 82.2 184.2 276.2#
56 59.2 42.6 64.0



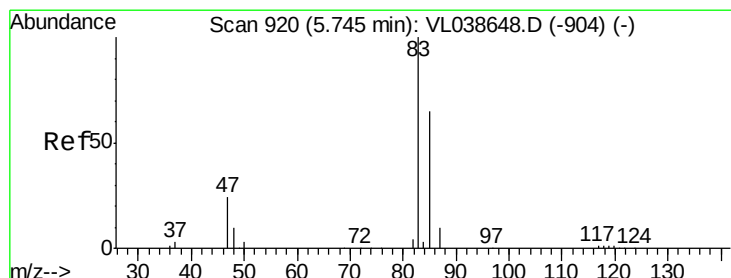
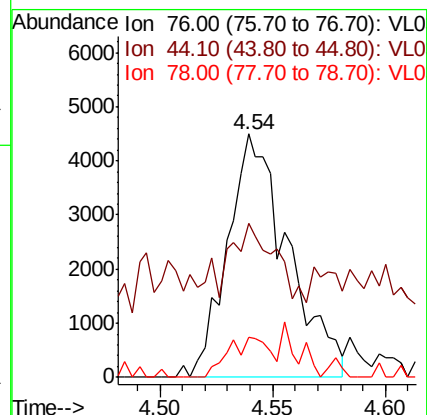
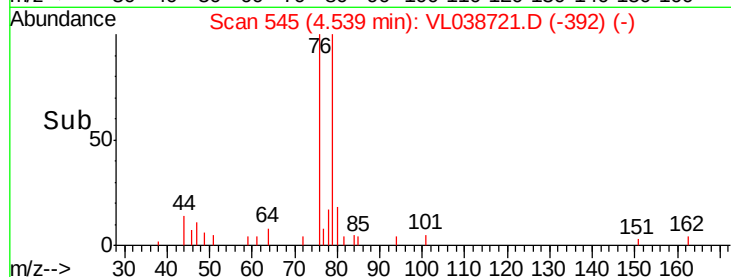
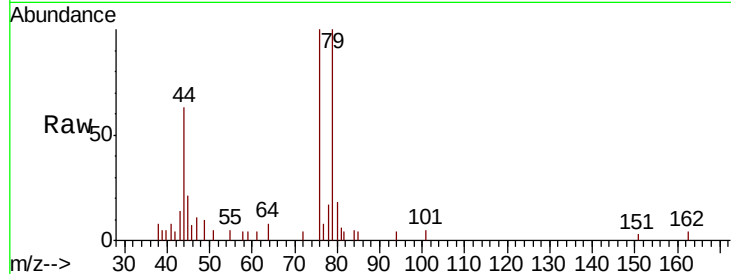


#27
Carbon Disulfide
Concen: 0.120 ppbv m
RT: 4.54
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 23 Mar 2022 18:31

Tot Ion:
Ion Ratio
76 100
44 22.
78 0.

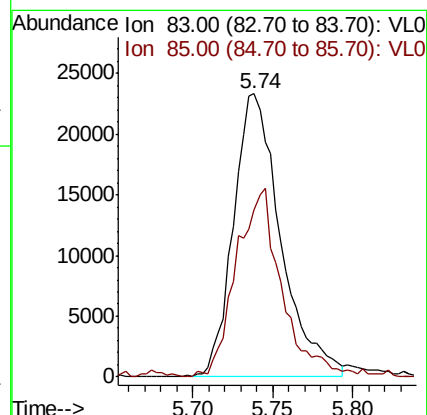
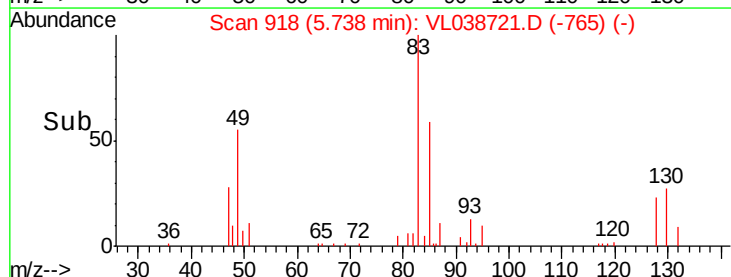
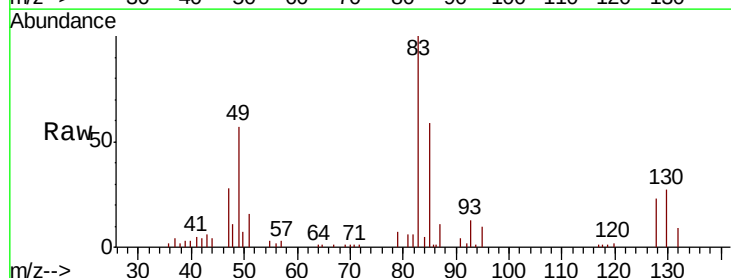
Manual Integrations
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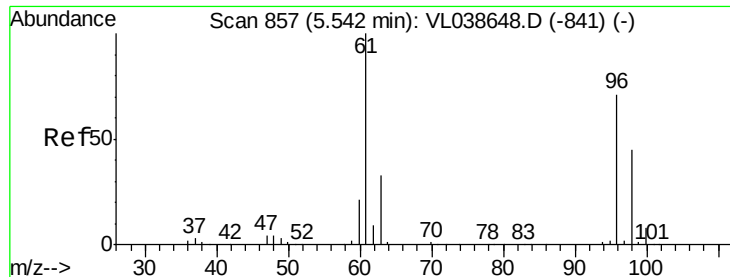
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/28/2022



#29
Chloroform
Concen: 0.416 ppbv
RT: 5.74 min Scan# 918
Delta R.T. -0.01 min
Lab File: VL038721.D
Acq: 23 Mar 2022 18:31

Tgt Ion: 83 Resp: 47116
Ion Ratio Lower Upper
83 100
85 60.0 51.7 77.5



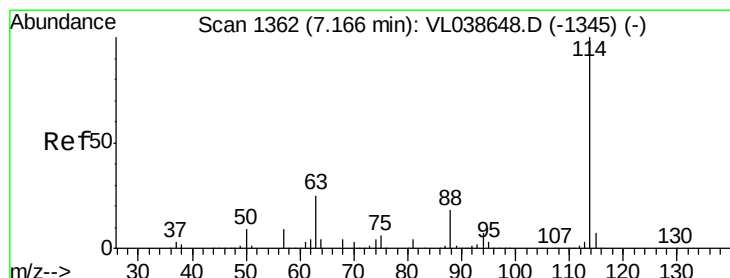
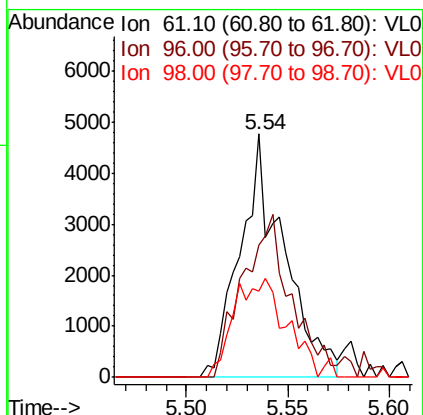
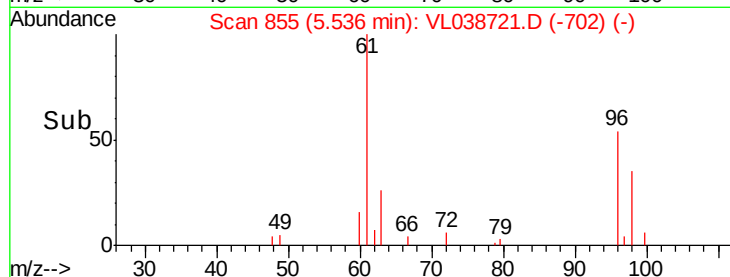
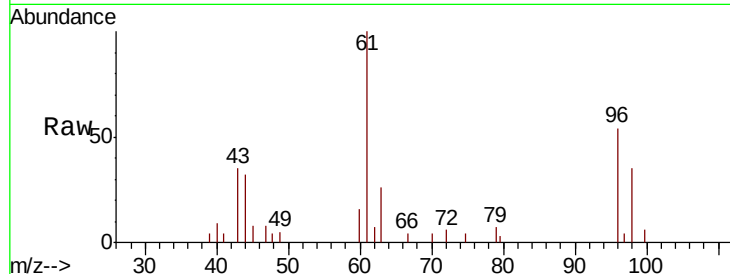


#31
 cis-1,2-Dichloroethene
 Concen: 0.108 ppbv m
 RT: 5.54
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 23 Mar 2022 18:31

Tot Ion:
 Ion Rati
 61 100
 96 54.
 98 35.

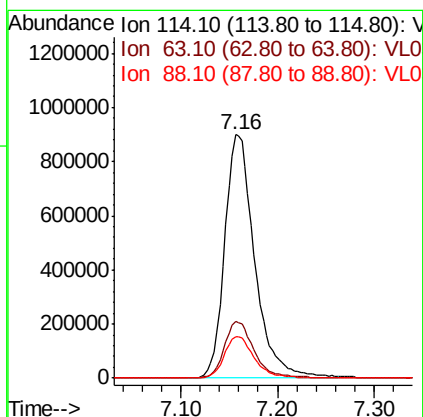
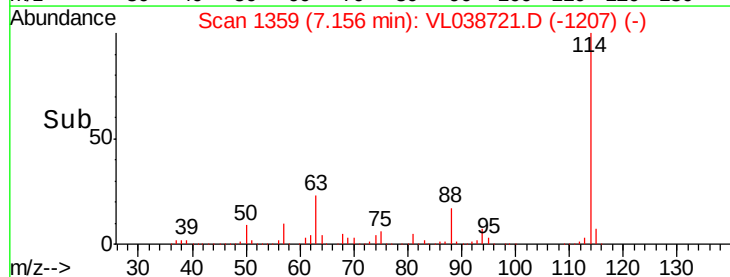
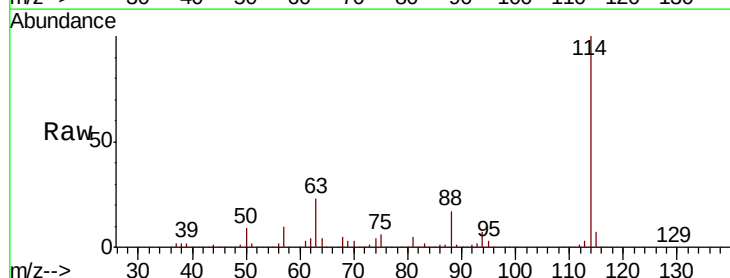
Manual Integrations
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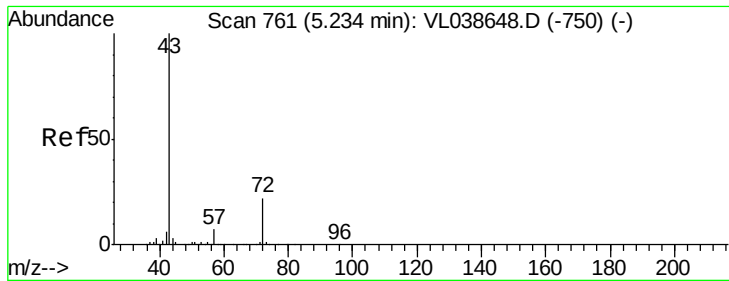
Reviewed By :Semsettin Yesilyurt 03/24/2022
 Supervised By :Mahesh Dadoda 03/28/2022



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1359
 Delta R.T. -0.01 min
 Lab File: VL038721.D
 Acq: 23 Mar 2022 18:31

Tgt Ion:114 Resp: 1940241
 Ion Ratio Lower Upper
 114 100
 63 23.2 19.4 29.0
 88 17.3 13.9 20.9



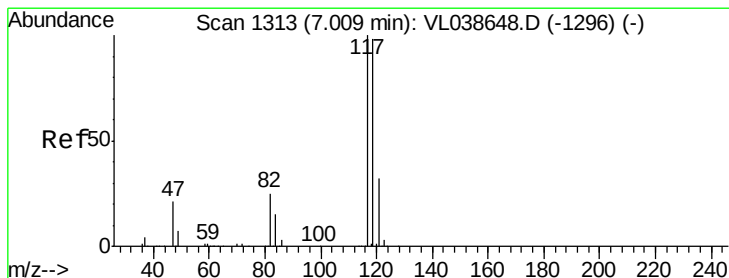
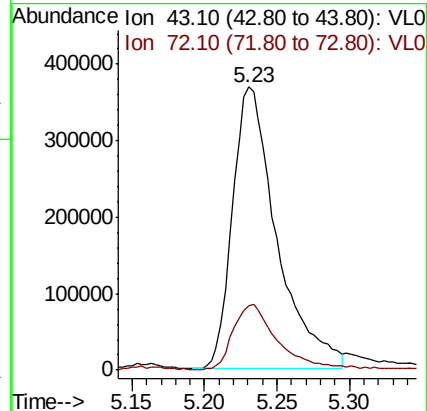
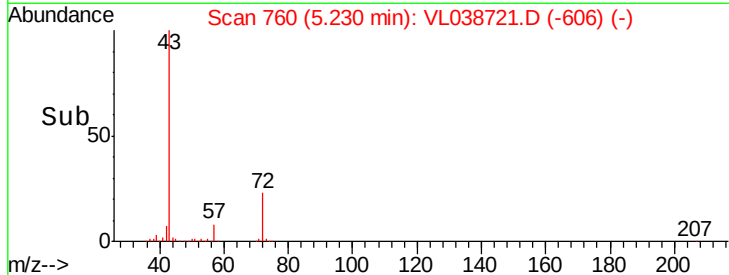
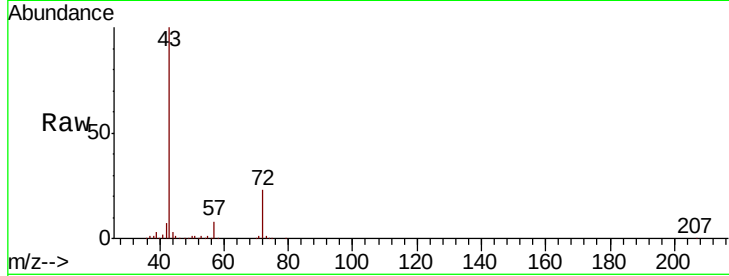


#34
2-Butanone
Concen: 10.230 ppbv
RT: 5.23
Instrument : MSVOA_L
Delta R.T. :
Lab File: ClientSampleId :
Acq: 23 Mar 2022 18:31

Tot Ion:
Ion Rati
43 100
72 25.

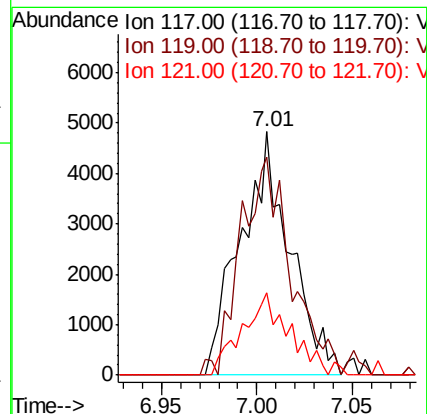
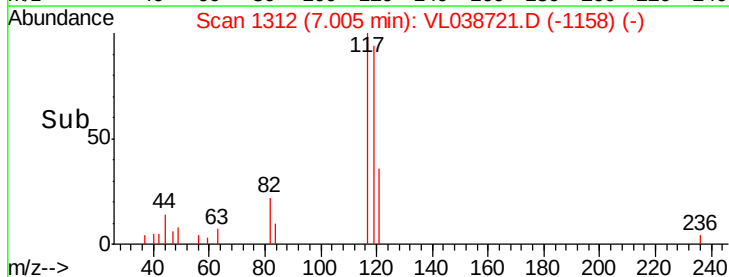
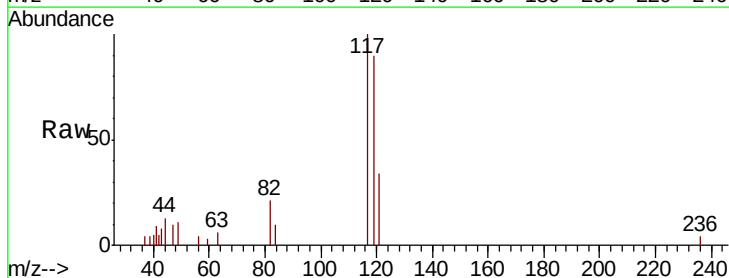
Manual Integrations
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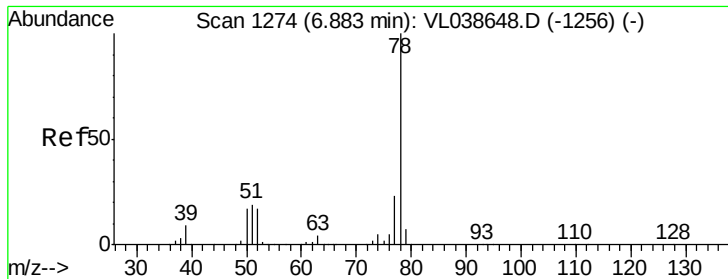
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/28/2022



#35
Carbon Tetrachloride
Concen: 0.077 ppbv m
RT: 7.01 min Scan# 1312
Delta R.T. -0.00 min
Lab File: VL038721.D
Acq: 23 Mar 2022 18:31

Tgt Ion:117 Resp: 8664
Ion Ratio Lower Upper
117 100
119 89.7 78.1 117.1
121 33.8 25.8 38.6





#36

Benzene

Concen: 0.132 ppbv

RT: 6.88 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Mar 2022 18:31 COP99

Tot Ion:

Ion Ratio

78 100

77 24.

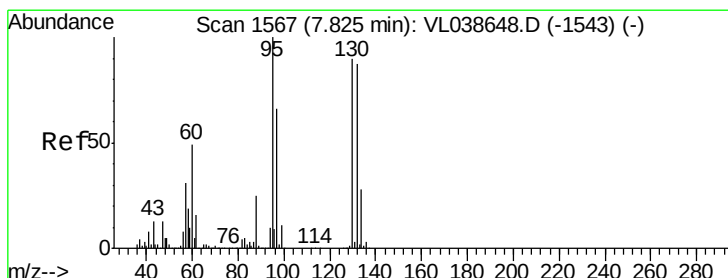
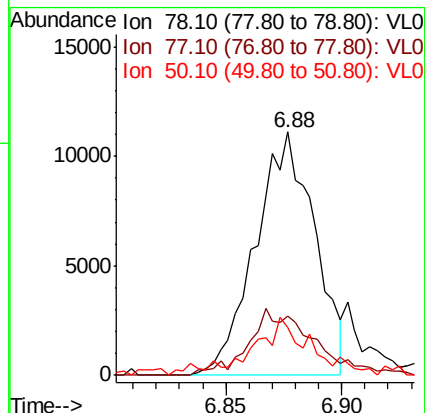
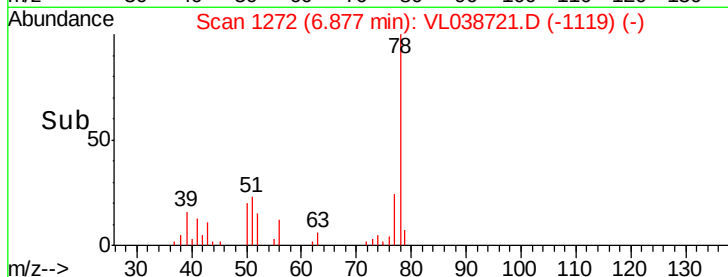
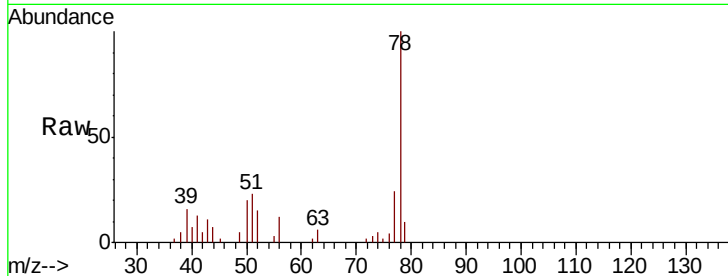
50 15.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/28/2022



#38

Trichloroethene

Concen: 0.354 ppbv

RT: 7.82 min Scan# 1565

Delta R.T. -0.01 min

Lab File: VL038721.D

Acq: 23 Mar 2022 18:31

Tgt Ion:130 Resp: 22184

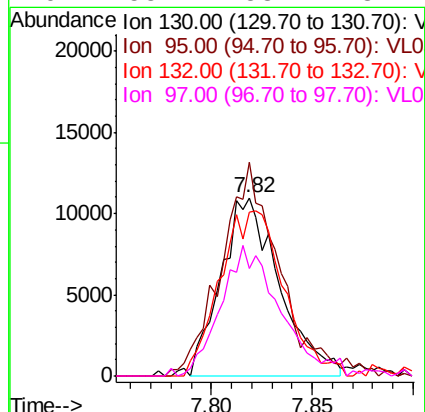
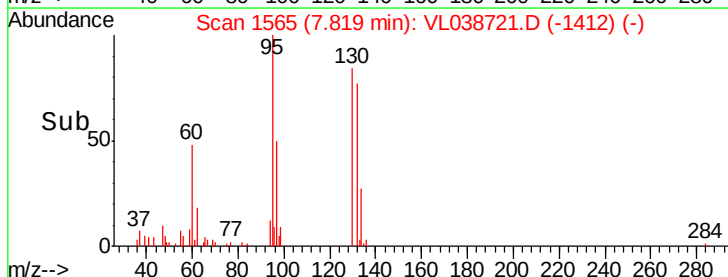
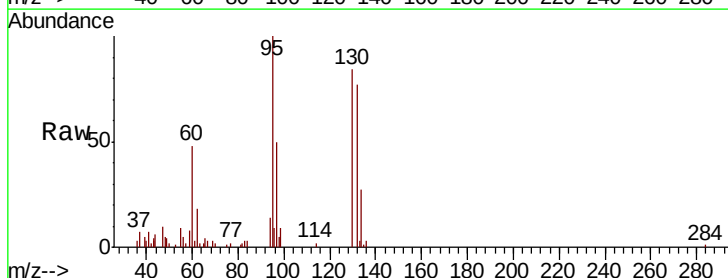
Ion Ratio Lower Upper

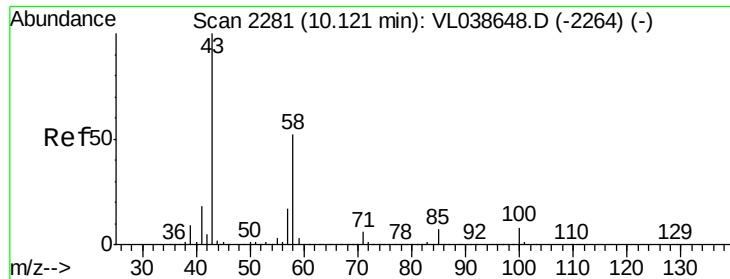
130 100

95 113.5 88.9 133.3

132 85.6 77.4 116.0

97 55.7 58.2 87.4#





#51

2-Hexanone

Concen: 0.574 ppbv

RT: 10.12

Delta R.T. MSVOA_L

Lab File:

ClientSampleId: COP99

Acq: 23 Mar 2022 18:31

Tot Ion:

Ion Ratio

43 100

58 51.

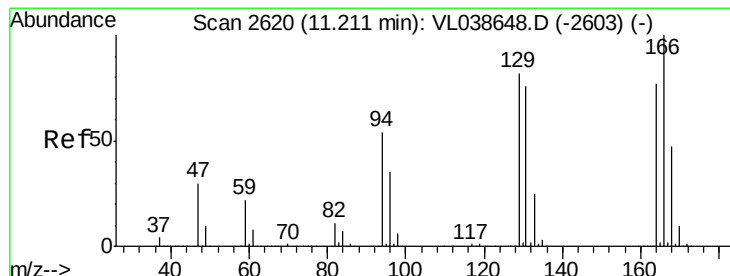
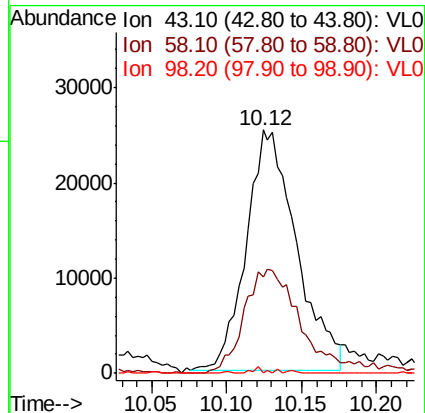
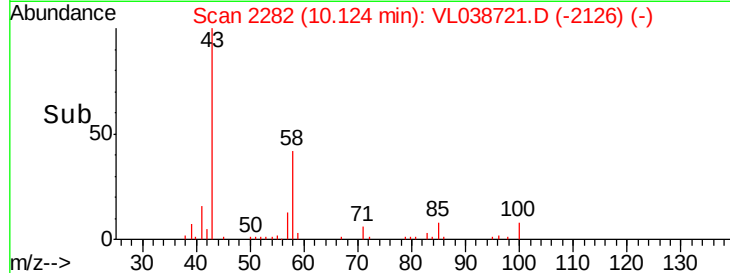
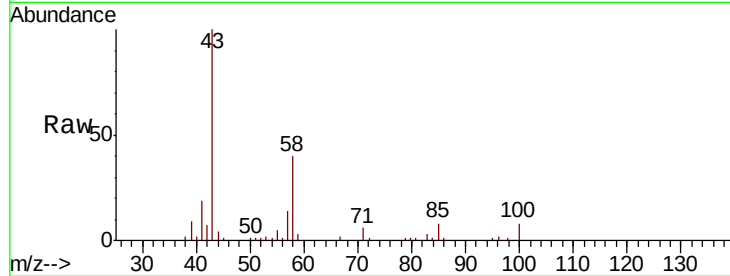
98 1.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/28/2022



#52

Tetrachloroethene

Concen: 118.815 ppbv

RT: 11.22 min Scan# 2622

Delta R.T. 0.01 min

Lab File: VL038721.D

Acq: 23 Mar 2022 18:31

Tgt Ion:164 Resp: 6510874

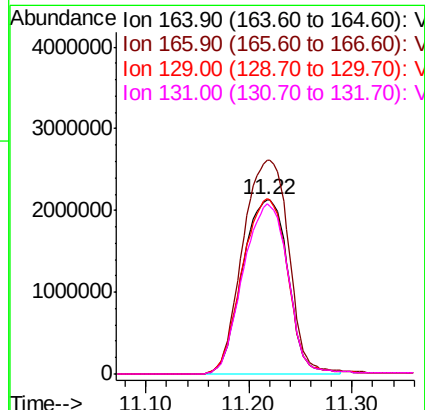
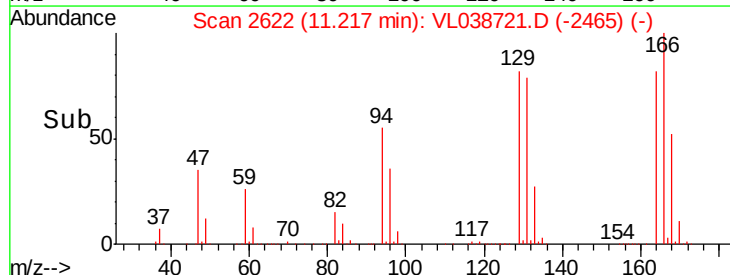
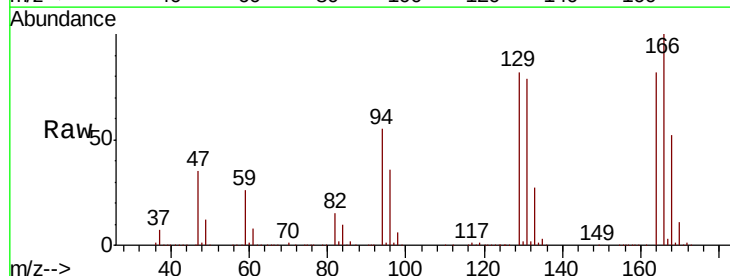
Ion Ratio Lower Upper

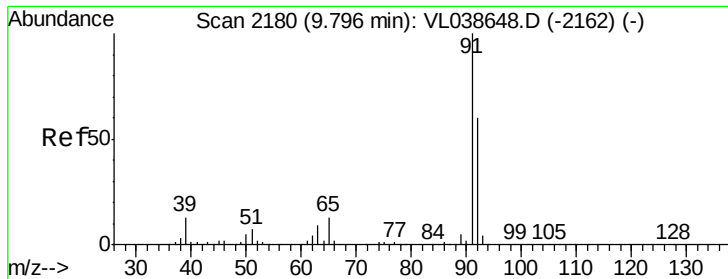
164 100

166 122.3 103.3 154.9

129 100.1 85.2 127.8

131 97.1 78.3 117.5





#53

Toluene

Concen: 0.363 ppbv

RT: 9.79 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 23 Mar 2022 18:31 COP99

Tot Ion:

Ion Ratio

91 100

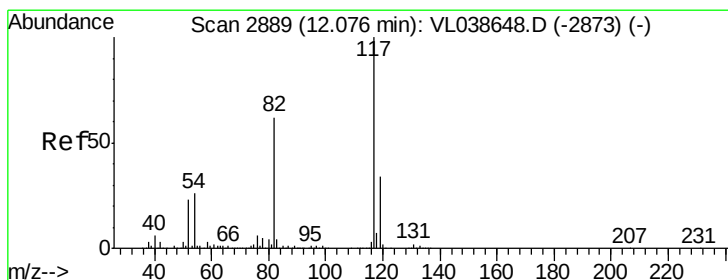
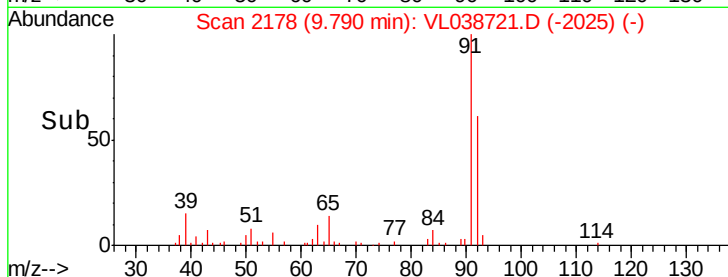
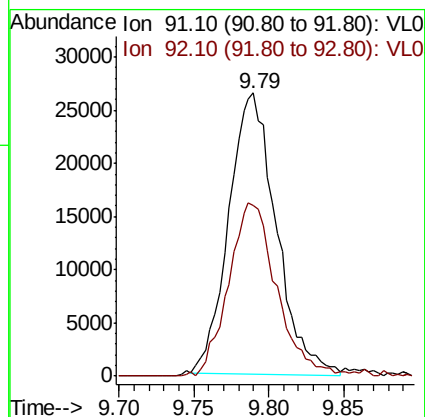
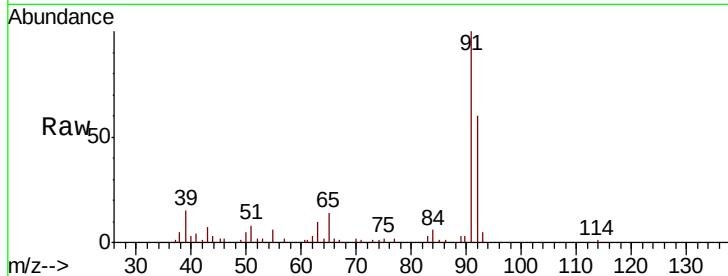
92 63.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/28/2022



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2887

Delta R.T. -0.01 min

Lab File: VL038721.D

Acq: 23 Mar 2022 18:31

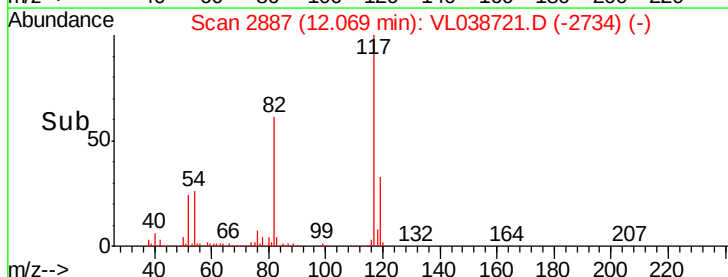
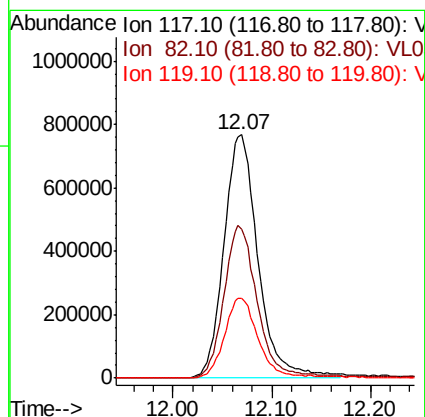
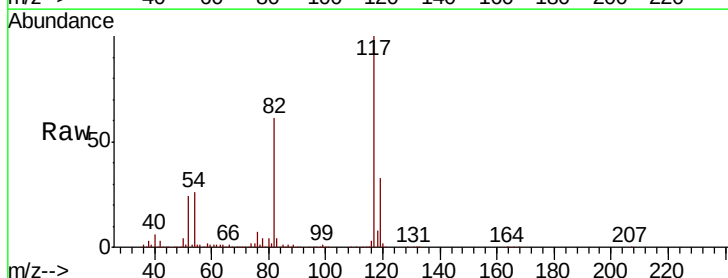
Tgt Ion:117 Resp: 1859827

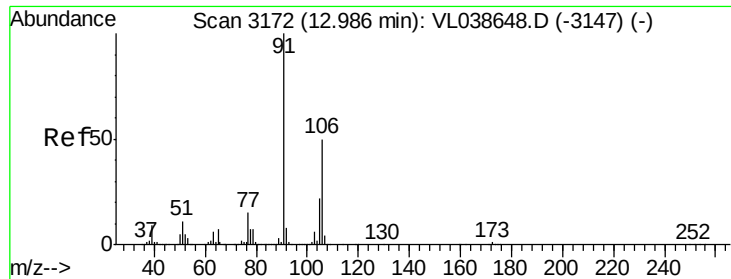
Ion Ratio Lower Upper

117 100

82 63.6 51.6 77.4

119 33.5 26.9 40.3



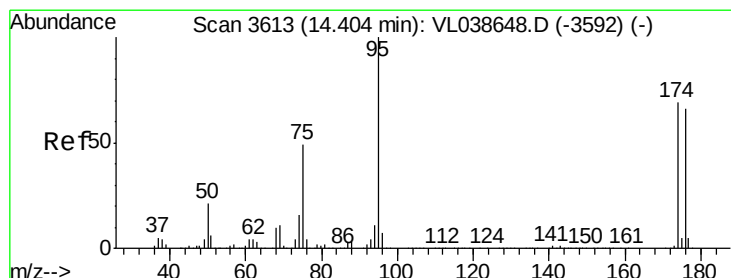
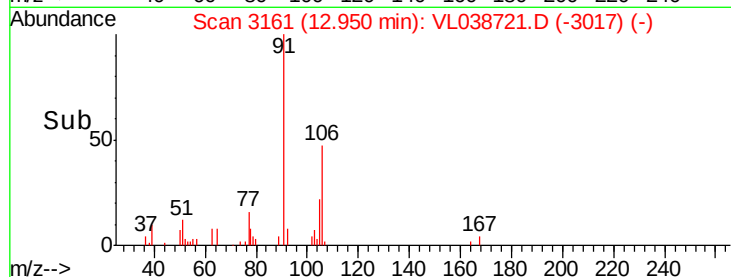
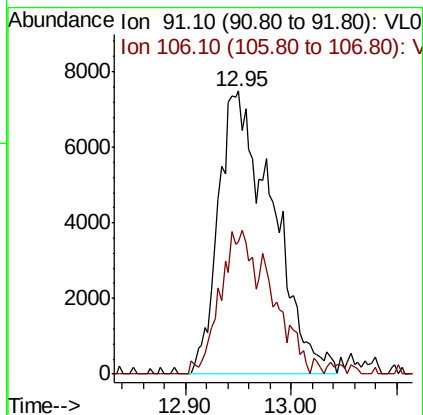
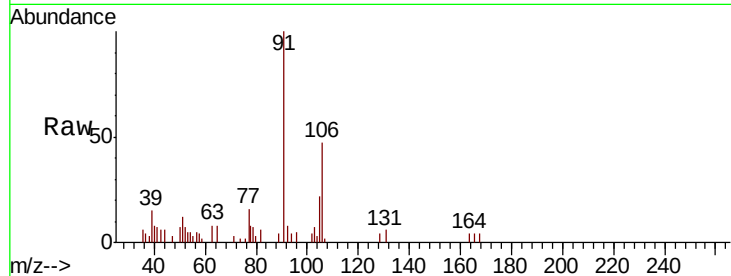


#59
m/p-Xylene
Concen: 0.139 ppbv m
RT: 12.95
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 23 Mar 2022 18:31

Tot Ion:
Ion Ratio
91 100
106 0.

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/28/2022



#68
1-Bromo-4-Fluorobenzene
Concen: 9.326 ppbv
RT: 14.39 min Scan# 3610
Delta R.T. -0.01 min
Lab File: VL038721.D
Acq: 23 Mar 2022 18:31

Tgt Ion: 95 Resp: 1329780
Ion Ratio Lower Upper
95 100
174 72.4 56.1 84.1
175 5.2 4.2 6.2

