

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101221\
 Data File : VL037832.D
 Acq On : 12 Oct 2021 16:37
 Operator : SY/AP
 Sample : M4079-04DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 C0P47DUP

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 10/14/2021
 Supervised By : Mahesh Dadoda 10/15/2021

Quant Time: Oct 14 01:34:02 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL100421A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Mon Oct 04 17:43:54 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1209517	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3579777	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3077755	10.00	ppbv	-0.01

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.41	95	2115192	9.83	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	26961	0.140	ppbv	97
3) Chlorodifluoromethane	2.99	51	39094	0.168	ppbv #	91
9) Propene	3.01	41	56707	0.663	ppbv	100
11) Trichlorofluoromethane	3.95	101	41399m	0.240	ppbv	
13) Ethanol	3.61	45	114789	16.415	ppbv	97
15) Acetone	3.85	43	1178379	10.853	ppbv	90
17) tert-Butyl alcohol	4.31	59	81171m	0.726	ppbv	
19) Isopropyl Alcohol	3.97	45	37016m	0.548	ppbv	
20) Methylene Chloride	4.34	84	280406	5.111	ppbv	95
26) Hexane	5.68	57	225125	1.501	ppbv #	44
27) Carbon Disulfide	4.55	76	28259m	0.213	ppbv	
29) Chloroform	5.74	83	276645	1.290	ppbv	95
34) 2-Butanone	5.24	43	268003	1.854	ppbv	99
36) Benzene	6.89	78	43071m	0.141	ppbv	
52) Tetrachloroethene	11.22	164	2361070	19.848	ppbv	97
53) Toluene	9.80	91	67044m	0.198	ppbv	
58) Ethyl Benzene	12.70	91	260426	0.630	ppbv	93
59) m/p-Xylene	12.96	91	994678	2.804	ppbv	96
60) o-Xylene	13.68	91	318352	0.936	ppbv	96
74) 1,2,4-Trimethylbenzene	16.76	105	84327m	0.229	ppbv	
79) Naphthalene	22.19	128	56366m	0.250	ppbv	

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

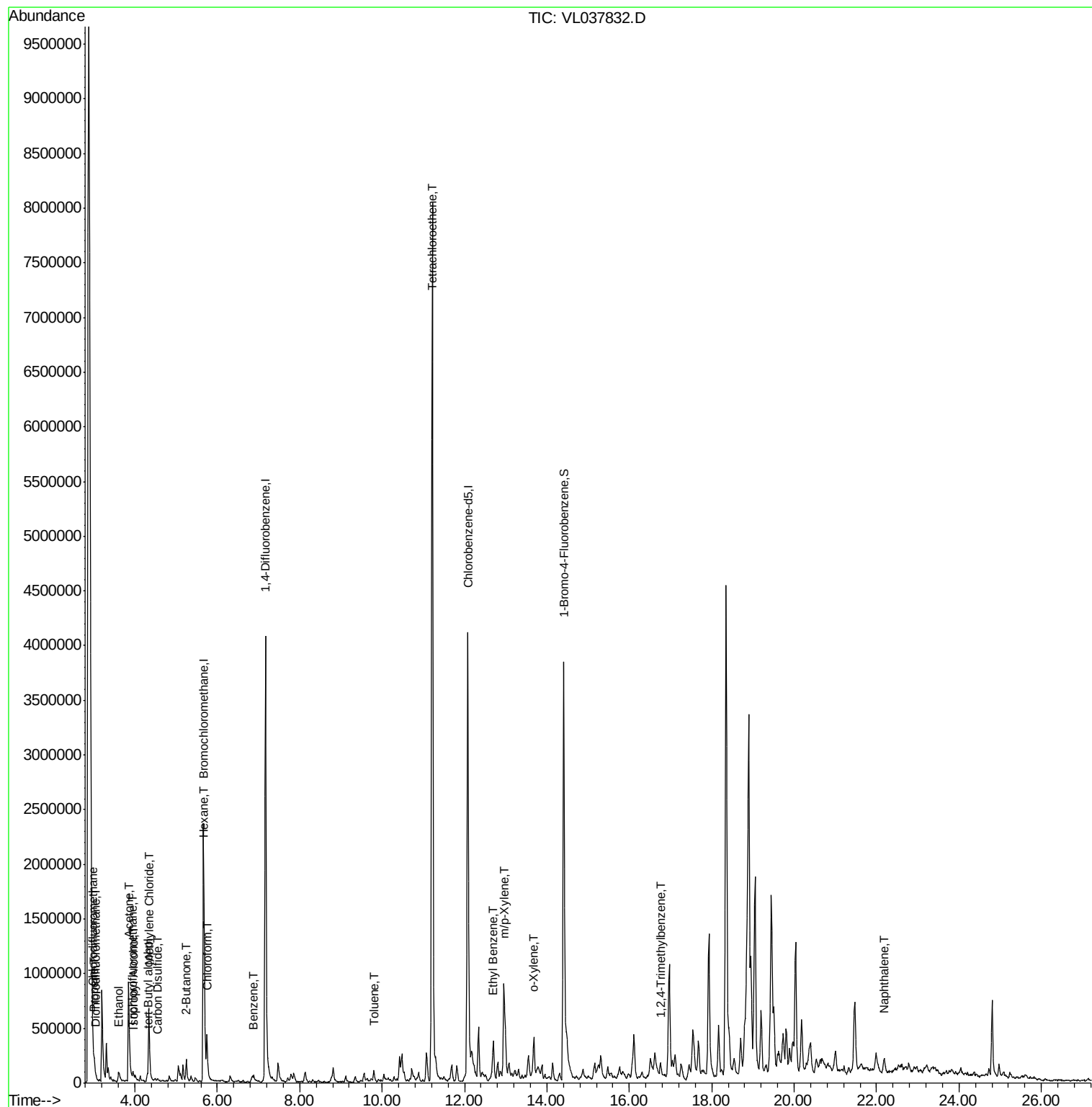
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL101221\
Data File : VL037832.D
Acq On : 12 Oct 2021 16:37
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ALS Vial : 1 Sample Multiplier: 1

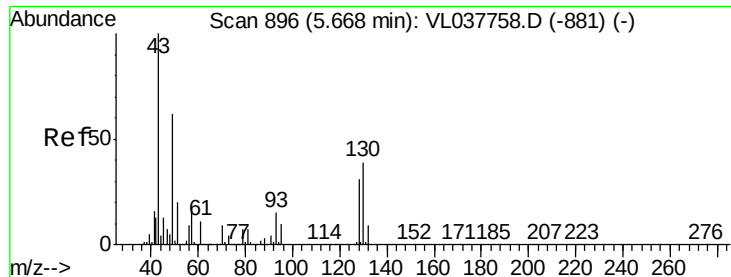
Instrument :
MSVOA_L
ClientSampleId :
C0P47DUP

Quant Time: Oct 14 01:34:02 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL100421
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Mon Oct 04 17:43:54 2021
Response via : Initial Calibration

Manual Integrations
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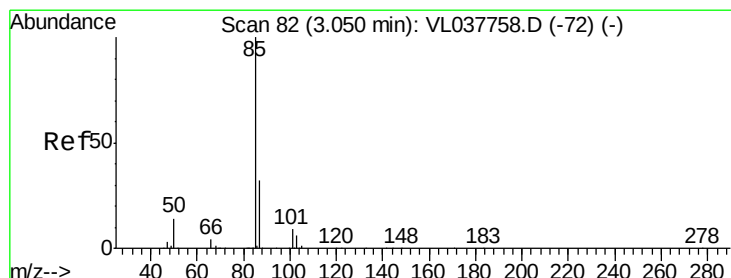
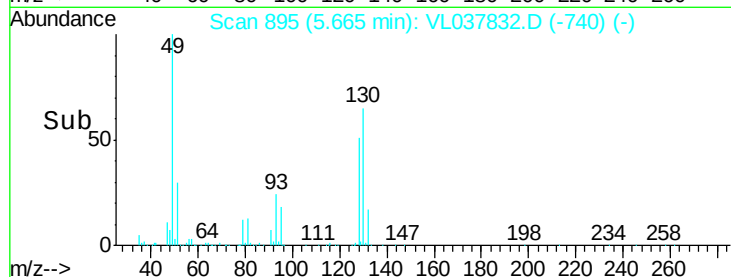
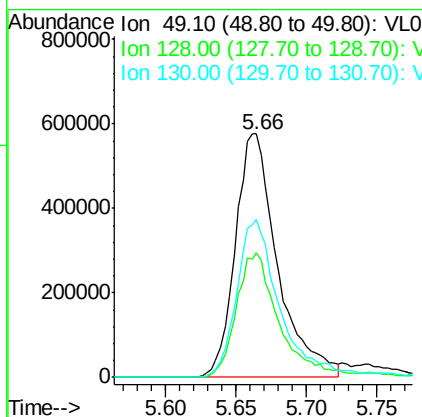
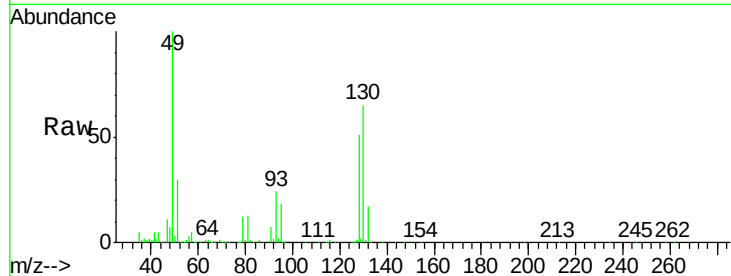


#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 12 Oct 2021 16:37

Tot Ion:
 Ion Ratio
 49 100
 128 53.
 130 69.

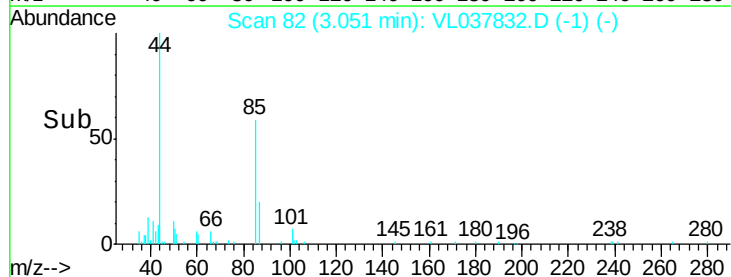
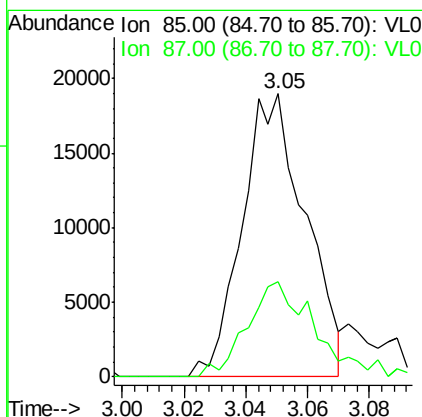
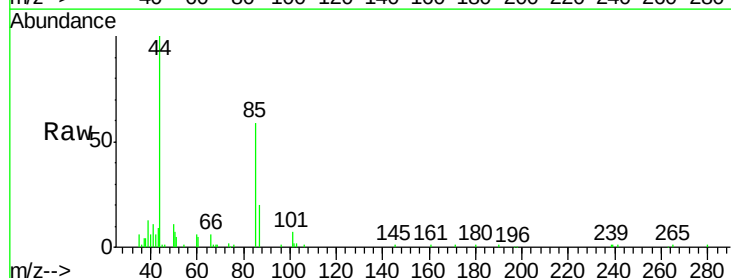
Manual Integrations
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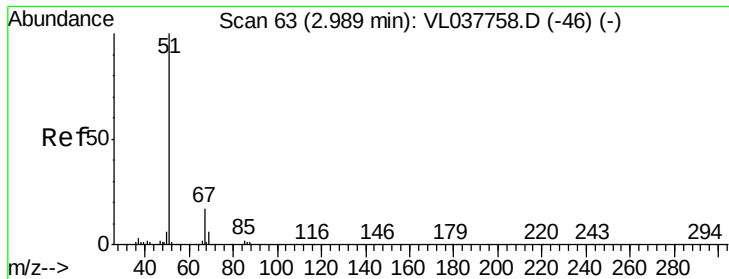
Reviewed By :Semsettin Yesilyurt 10/14/2021
 Supervised By :Mahesh Dadoda 10/15/2021



#2
 Dichlorodifluoromethane
 Concen: 0.140 ppbv
 RT: 3.05 min Scan# 82
 Delta R.T. 0.00 min
 Lab File: VL037832.D
 Acq: 12 Oct 2021 16:37

Tgt Ion: 85 Resp: 26961
 Ion Ratio Lower Upper
 85 100
 87 33.6 25.7 38.5





#3

Chlorodifluoromethane

Concen: 0.168 ppbv

RT: 2.99 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 12 Oct 2021 16:37 C0P47DUP

Tot Ion:

Ion Ratio

51 100

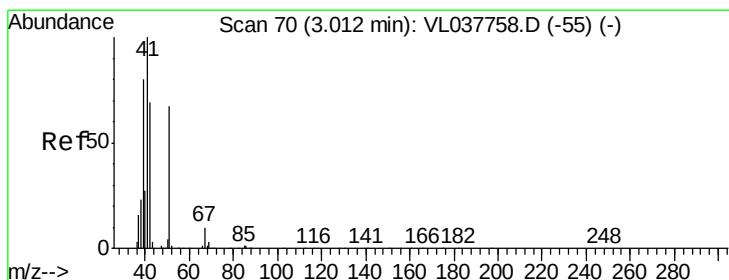
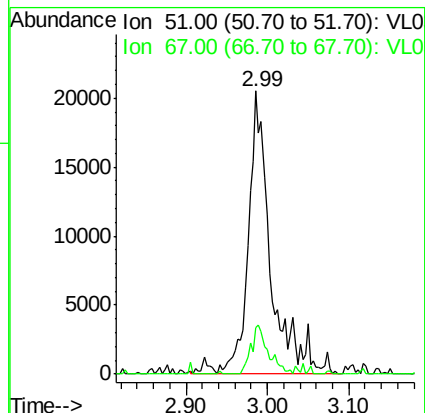
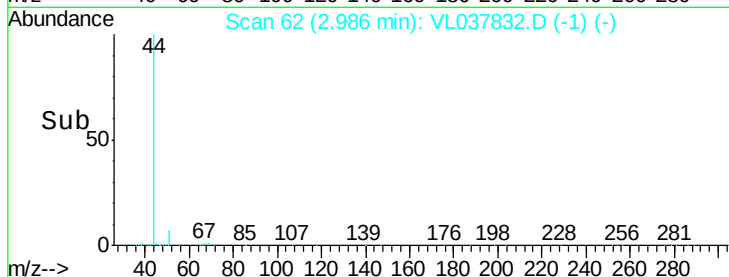
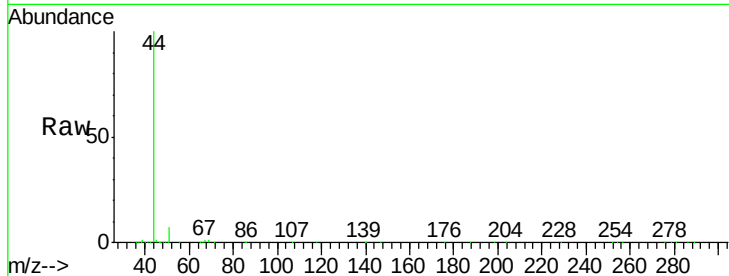
67 13.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/14/2021

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#9

Propene

Concen: 0.663 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.00 min

Lab File: VL037832.D

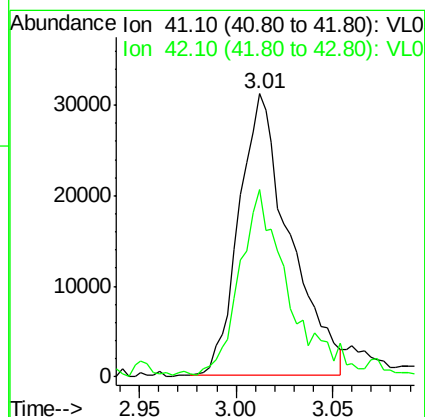
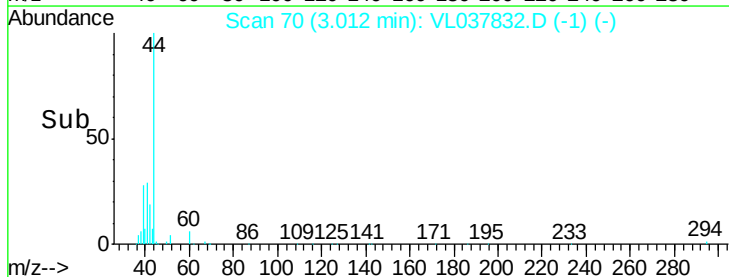
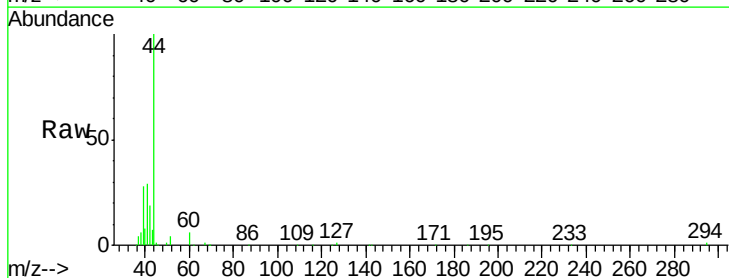
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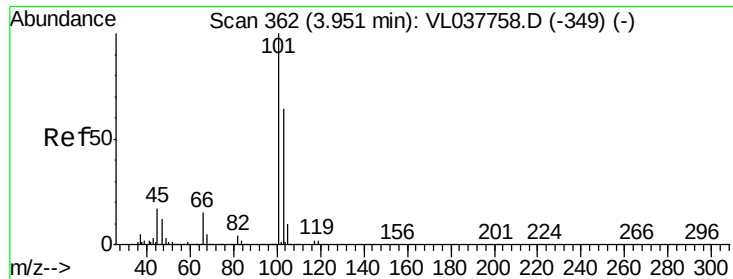
Tgt Ion: 41 Resp: 56707

Ion Ratio Lower Upper

41 100

42 67.9 54.2 81.2



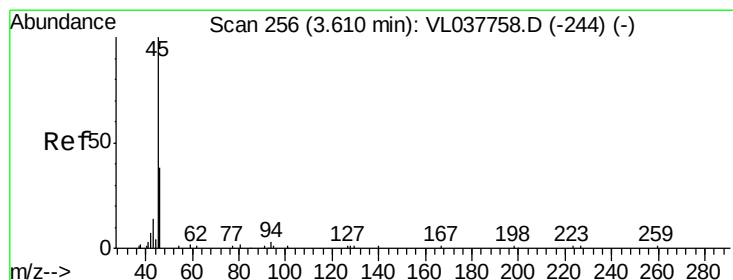
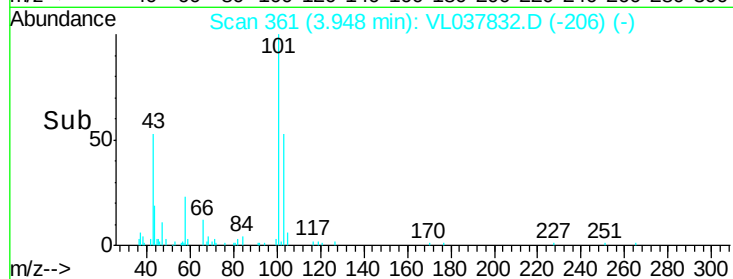
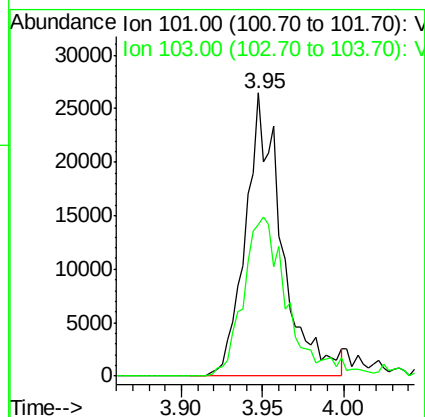
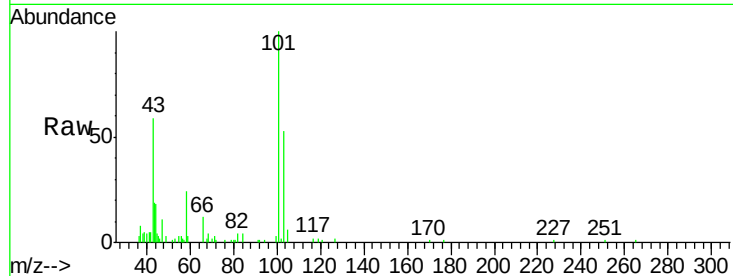


#11
 Trichlorofluoromethane
 Concen: 0.240 ppbv m
 RT: 3.95
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 C0P47DUP
 Acq: 12 Oct 2021 16:37

Tot Ion:1
 Ion Rati
 101 100
 103 53.

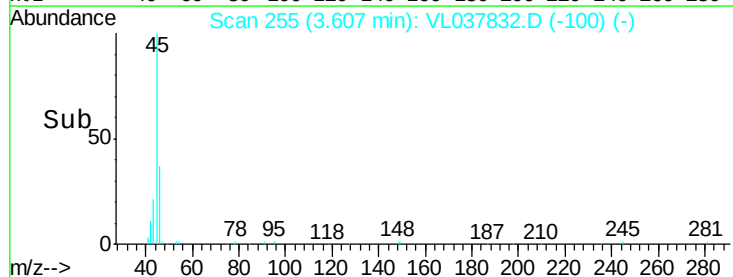
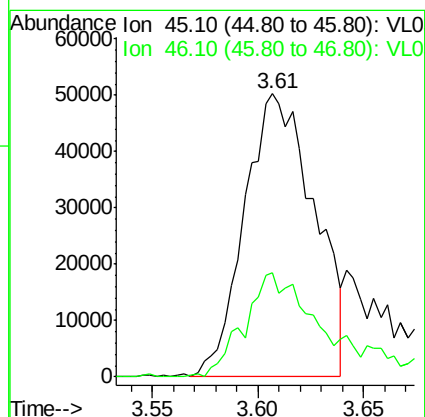
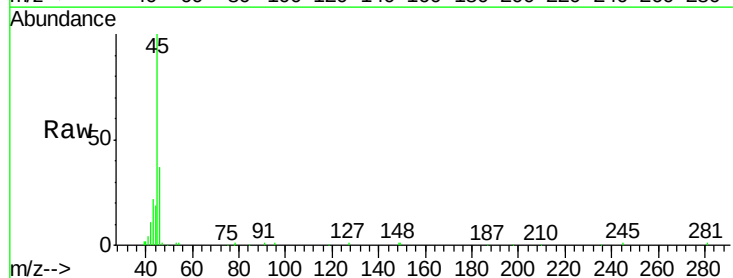
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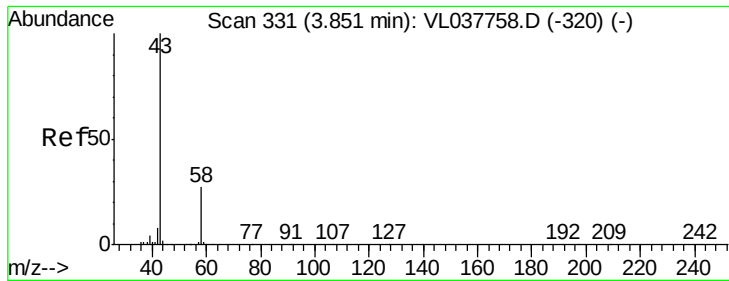
Reviewed By :Semsettin Yesilyurt 10/14/2021
 Supervised By :Mahesh Dadoda 10/15/2021



#13
 Ethanol
 Concen: 16.415 ppbv
 RT: 3.61 min Scan# 255
 Delta R.T. -0.00 min
 Lab File: VL037832.D
 Acq: 12 Oct 2021 16:37

Tgt Ion: 45 Resp: 114789
 Ion Ratio Lower Upper
 45 100
 46 48.7 20.2 81.0





#15

Acetone

Concen: 10.853 ppbv

RT: 3.85 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 12 Oct 2021 16:37 C0P47DUP

Tot Ion:

Ion Ratio

43 100

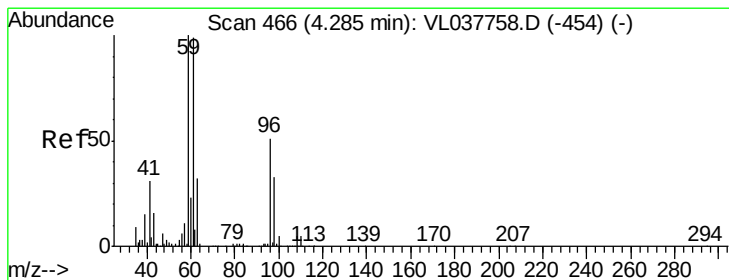
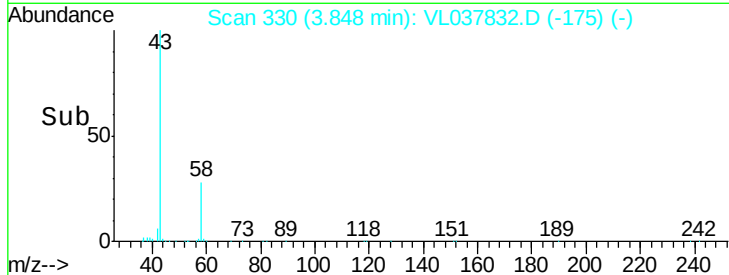
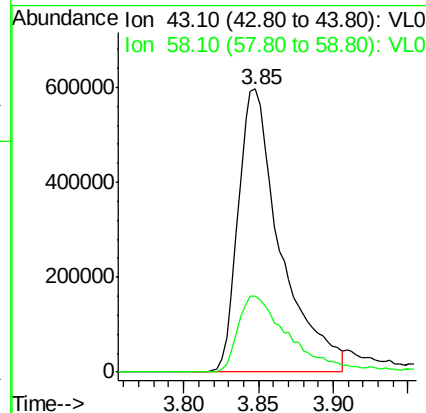
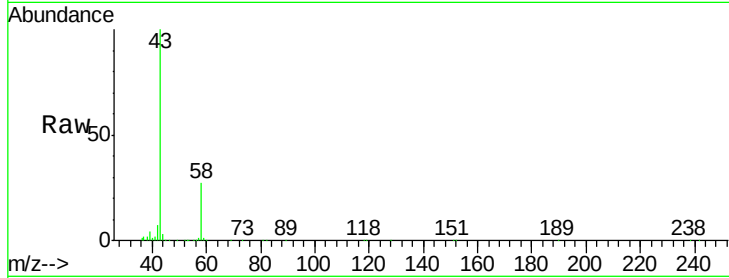
58 34.

Manual Integrations

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#17

tert-Butyl alcohol

Concen: 0.726 ppbv m

RT: 4.31 min Scan# 473

Delta R.T. 0.02 min

Lab File: VL037832.D

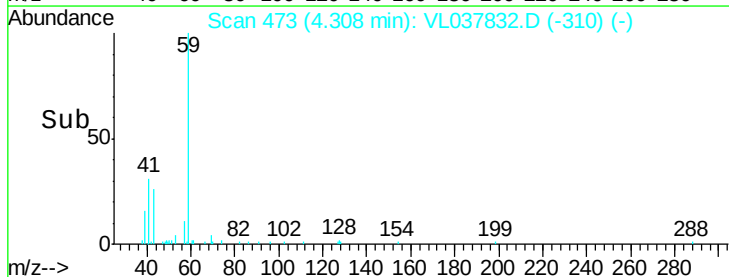
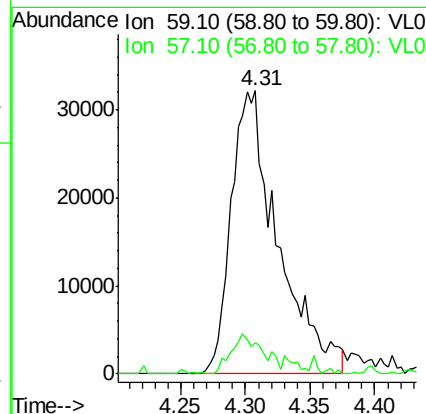
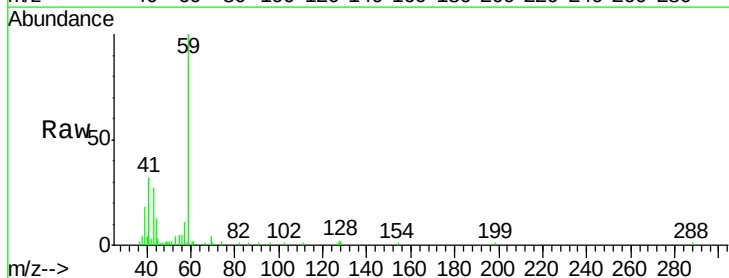
Acq: 12 Oct 2021 16:37

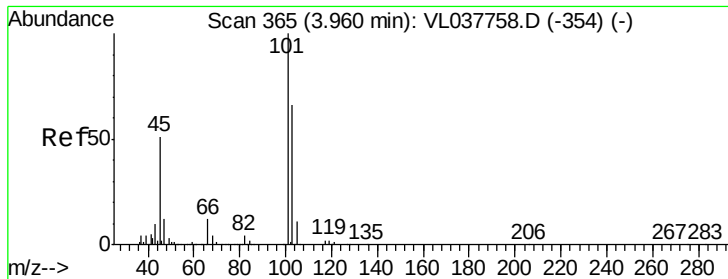
Tgt Ion: 59 Resp: 81171

Ion Ratio Lower Upper

59 100

57 11.5 8.6 13.0





#19

Isopropyl Alcohol

Concen: 0.548 ppbv m

RT: 3.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 12 Oct 2021 16:37 C0P47DUP

Tot Ion:

Ion Ratio

45 100

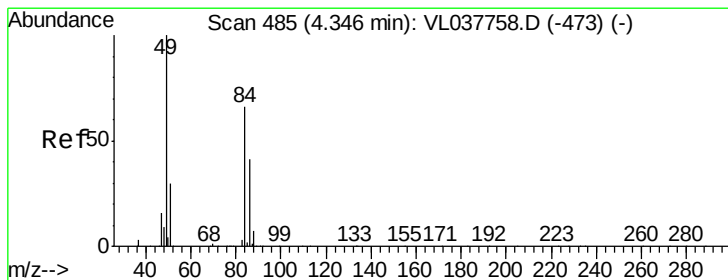
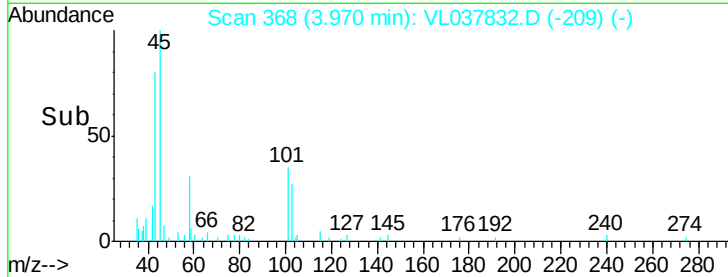
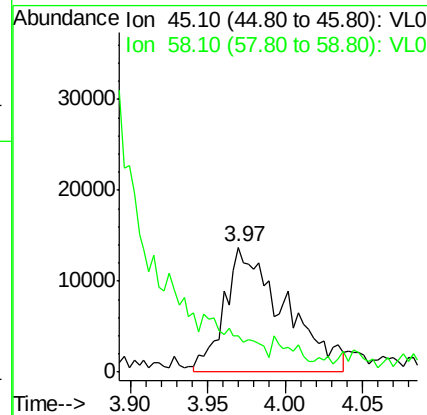
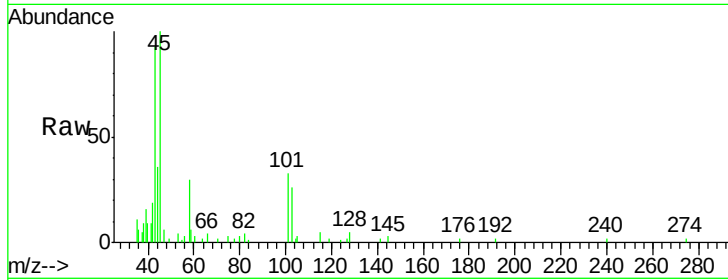
58 0.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/14/2021

Supervised By :Mahesh Dadoda 10/15/2021



#20

Methylene Chloride

Concen: 5.111 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.01 min

Lab File: VL037832.D

Acq: 12 Oct 2021 16:37

Tgt Ion: 84 Resp: 280406

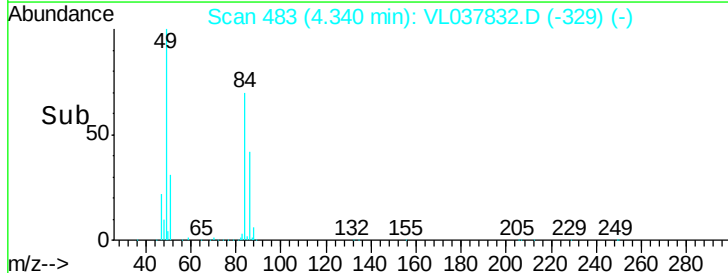
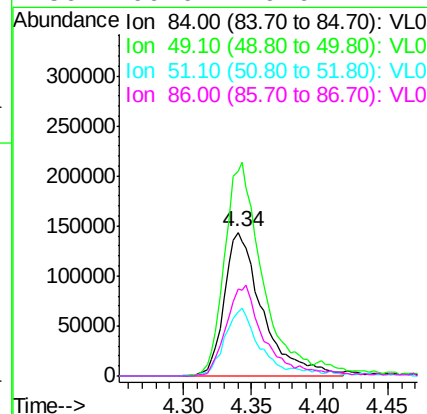
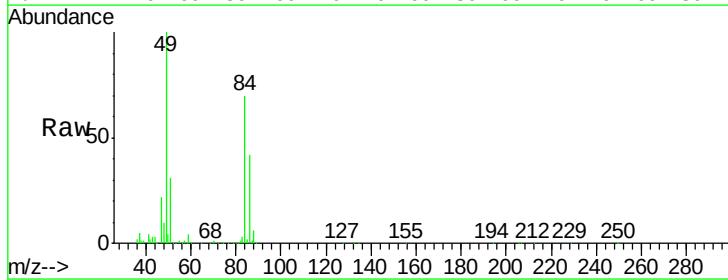
Ion Ratio Lower Upper

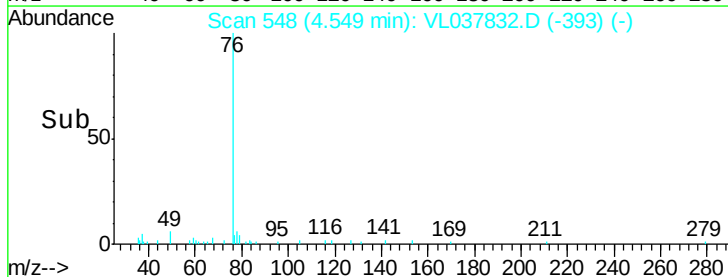
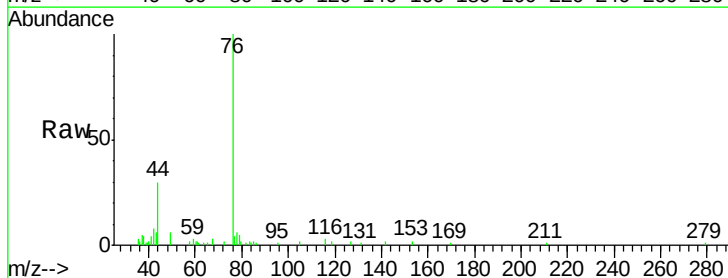
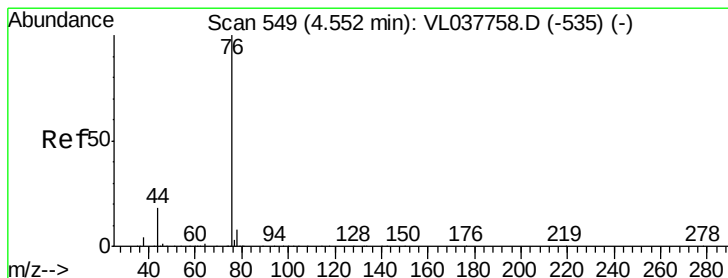
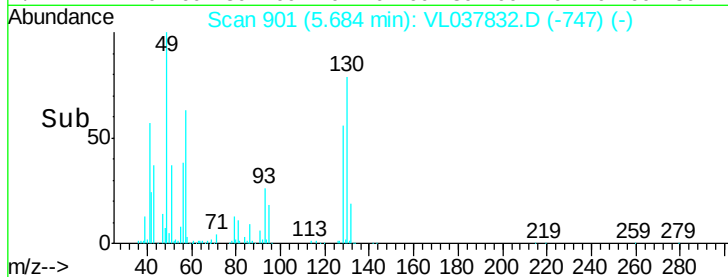
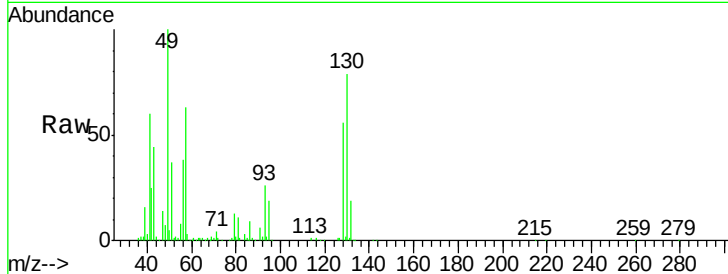
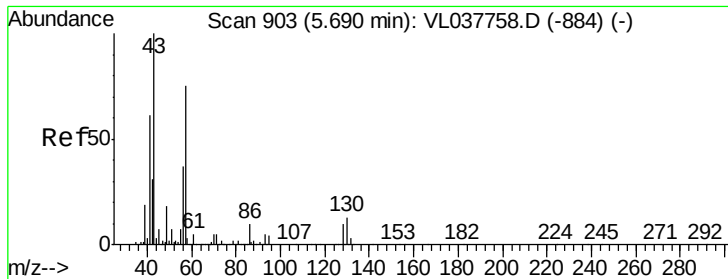
84 100

49 142.4 120.7 181.1

51 44.6 36.2 54.4

86 60.6 49.6 74.4





#26

Hexane

Concen: 1.501 ppbv

RT: 5.68

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 12 Oct 2021 16:37

Tot Ion:

Ion Ratio

57 100

41 93.

43 74.

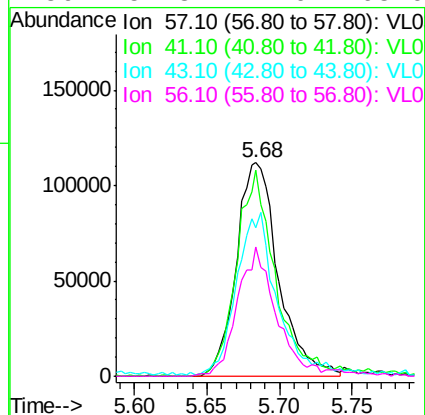
56 57.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/14/2021

Supervised By :Mahesh Dadoda 10/15/2021



#27

Carbon Disulfide

Concen: 0.213 ppbv m

RT: 4.55 min Scan# 548

Delta R.T. -0.00 min

Lab File: VL037832.D

Acq: 12 Oct 2021 16:37

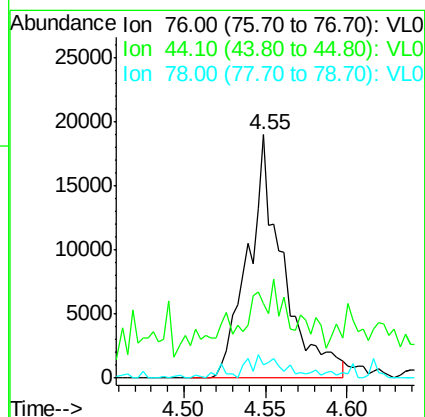
Tgt Ion: 76 Resp: 28259

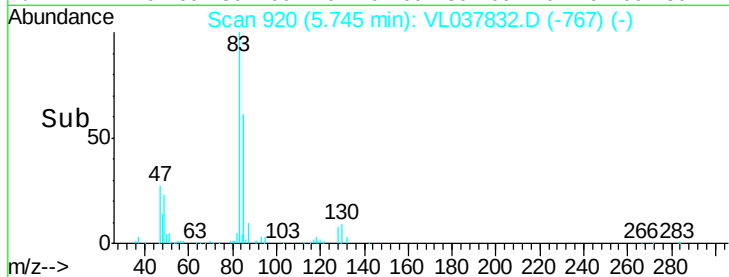
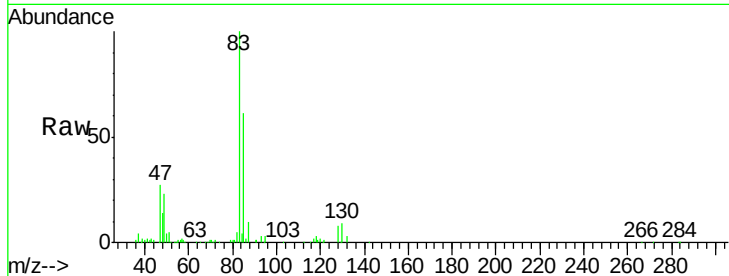
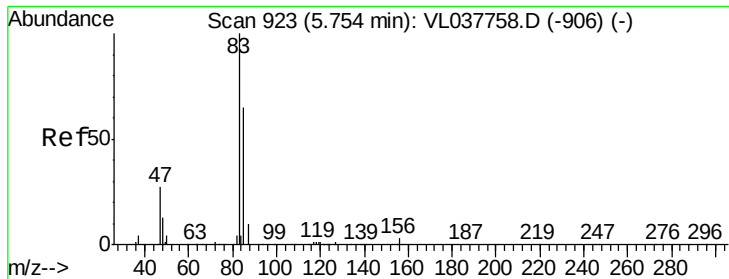
Ion Ratio Lower Upper

76 100

44 53.1 14.3 21.5#

78 8.2 7.8 11.6



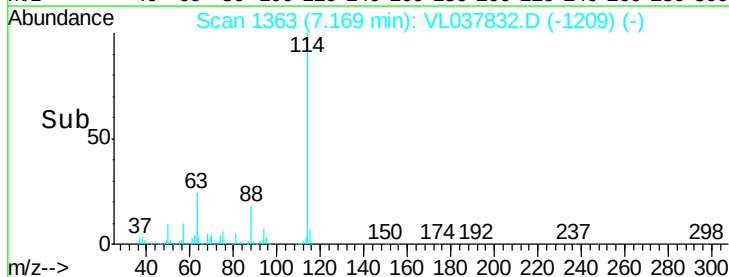
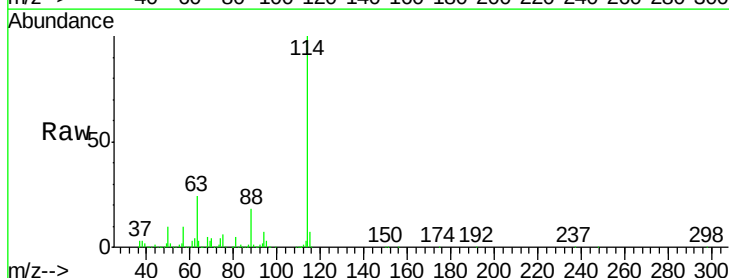
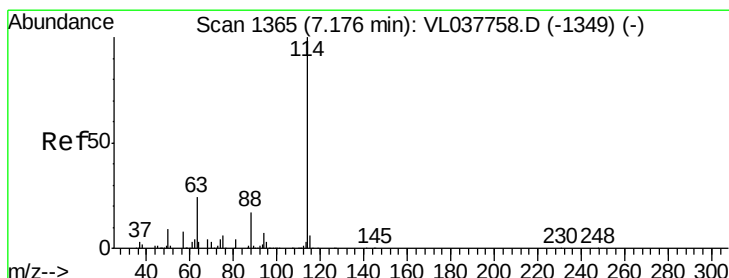
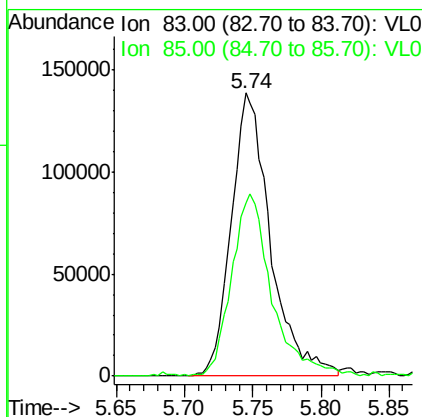


#29
Chloroform
Concen: 1.290 ppbv
RT: 5.74
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 12 Oct 2021 16:37

Tot Ion:
Ion Ratio
83 100
85 61.

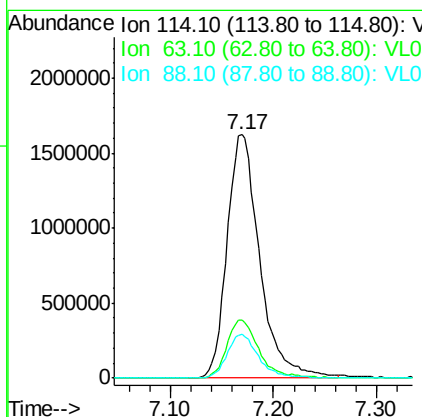
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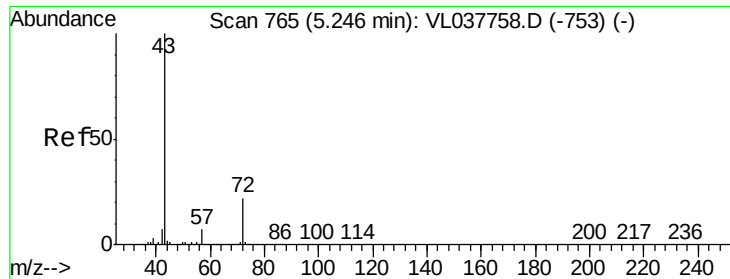
Reviewed By :Semsettin Yesilyurt 10/14/2021
Supervised By :Mahesh Dadoda 10/15/2021



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.01 min
Lab File: VL037832.D
Acq: 12 Oct 2021 16:37

Tgt Ion:114 Resp: 3579777
Ion Ratio Lower Upper
114 100
63 23.9 19.4 29.2
88 17.8 14.4 21.6



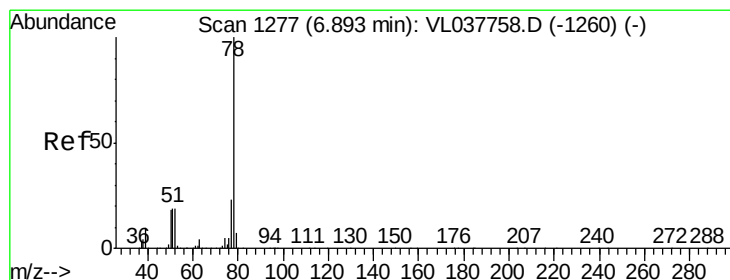
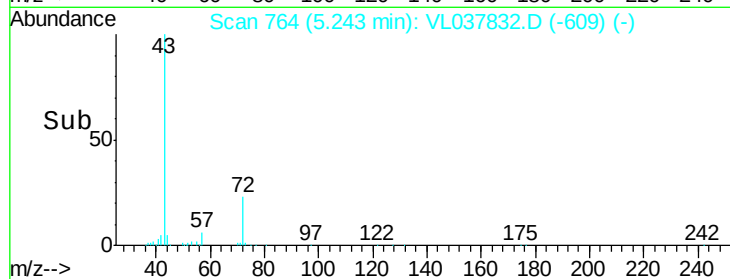
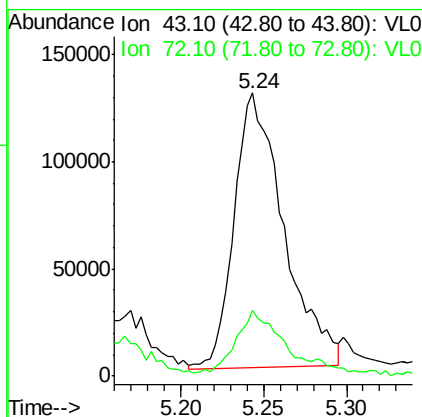
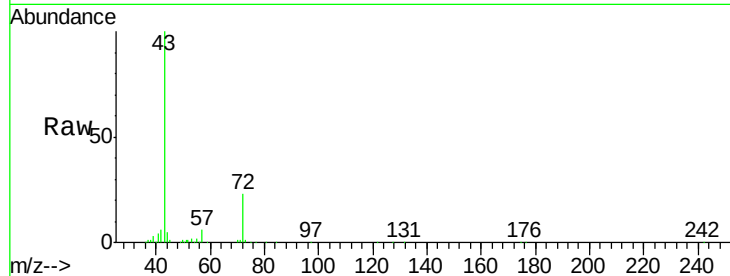


#34
 2-Butanone
 Concen: 1.854 ppbv
 RT: 5.24
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 12 Oct 2021 16:37

Tot Ion:
 Ion Ratio
 43 100
 72 23.

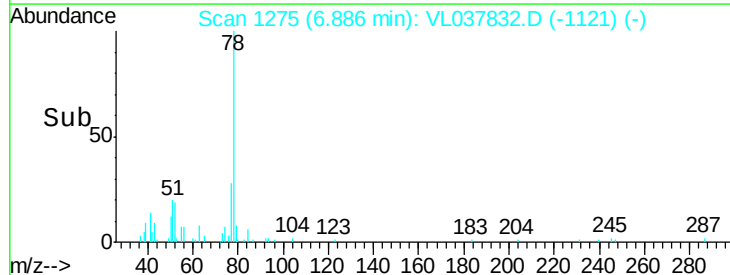
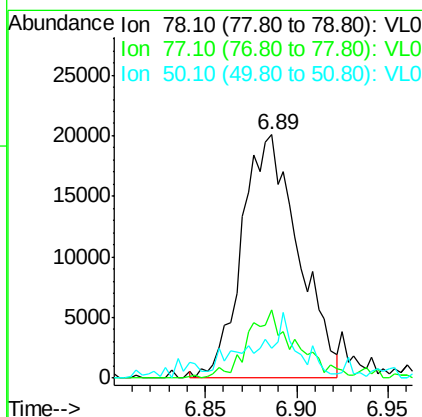
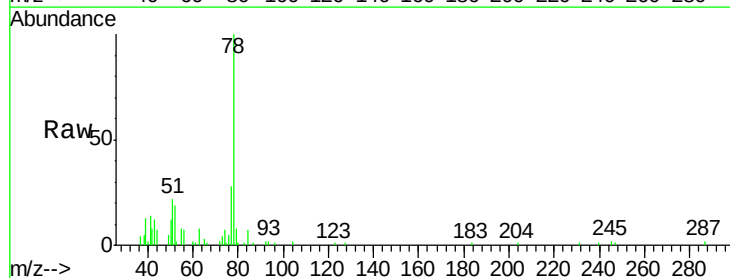
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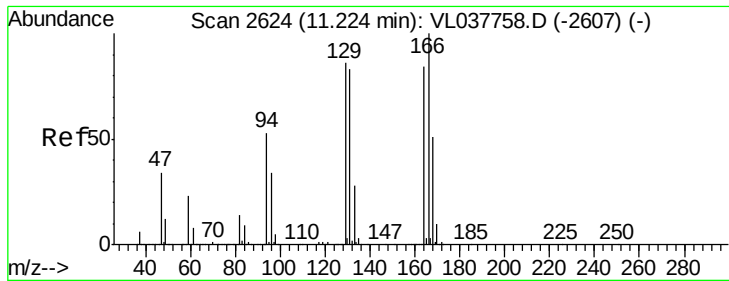
Reviewed By :Semsettin Yesilyurt 10/14/2021
 Supervised By :Mahesh Dadoda 10/15/2021



#36
 Benzene
 Concen: 0.141 ppbv m
 RT: 6.89 min Scan# 1275
 Delta R.T. -0.01 min
 Lab File: VL037832.D
 Acq: 12 Oct 2021 16:37

Tgt Ion: 78 Resp: 43071
 Ion Ratio Lower Upper
 78 100
 77 28.0 18.8 28.2
 50 12.3 14.7 22.1#



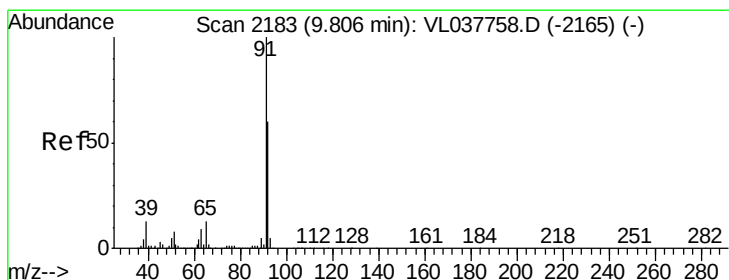
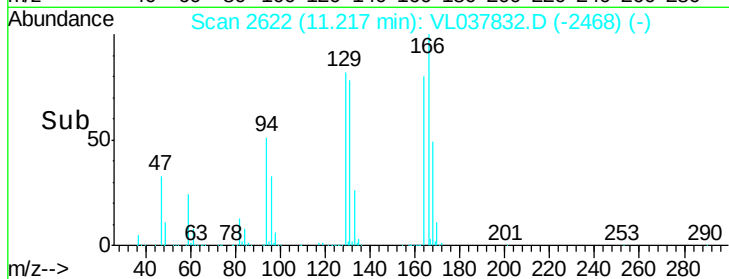
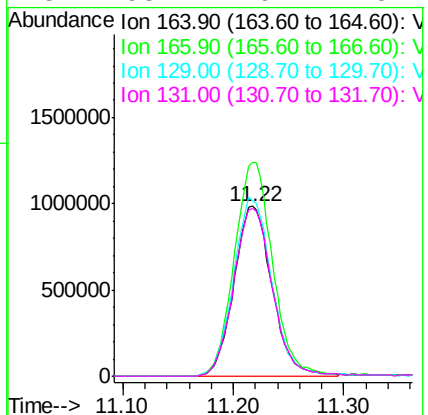
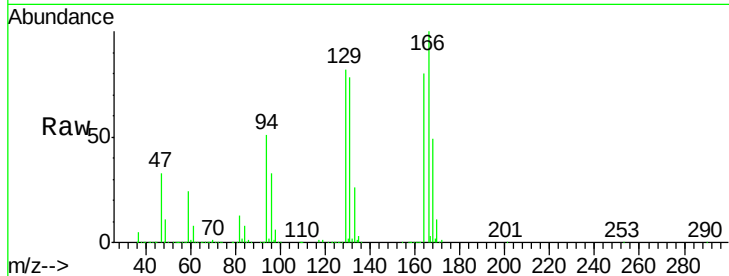


#52
Tetrachloroethene
Concen: 19.848 ppbv
RT: 11.22
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 12 Oct 2021 16:37

Tot Ion: 1
Ion Ratio
164 100
166 125.
129 103.
131 98.4 79.4 119.2

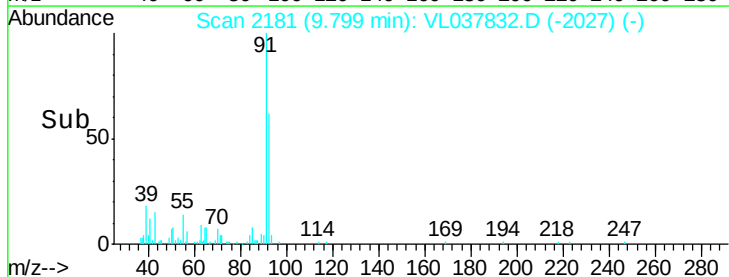
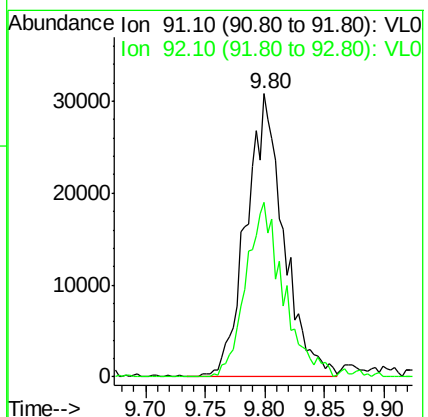
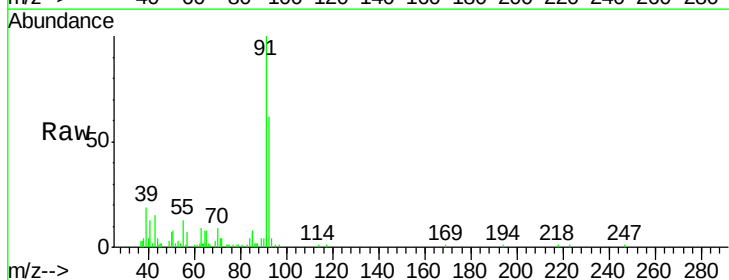
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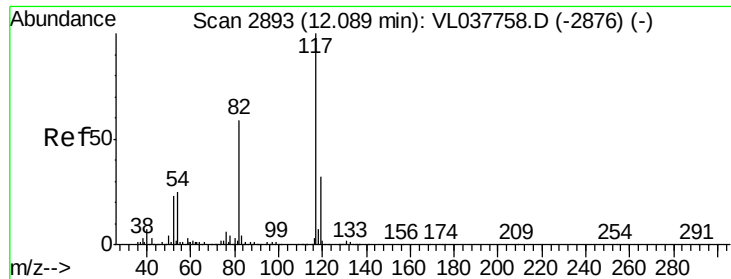
Reviewed By :Semsettin Yesilyurt 10/14/2021
Supervised By :Mahesh Dadoda 10/15/2021



#53
Toluene
Concen: 0.198 ppbv m
RT: 9.80 min Scan# 2181
Delta R.T. -0.01 min
Lab File: VL037832.D
Acq: 12 Oct 2021 16:37

Tgt Ion: 91 Resp: 67044
Ion Ratio Lower Upper
91 100
92 61.7 48.4 72.6



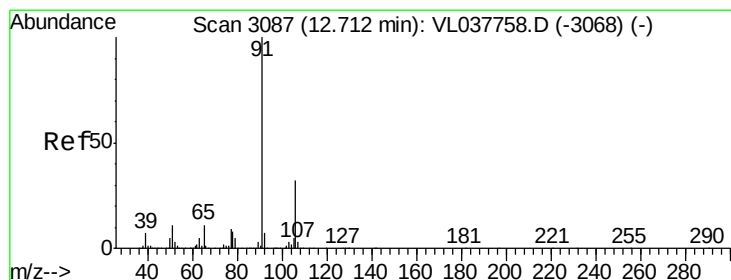
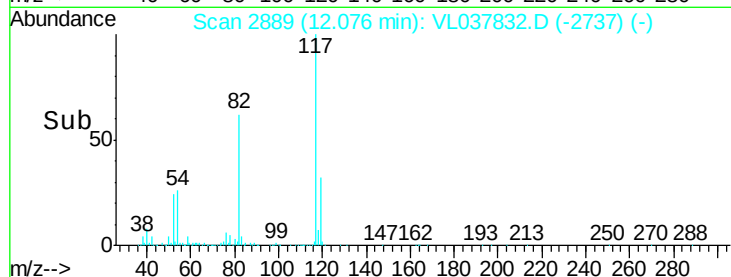
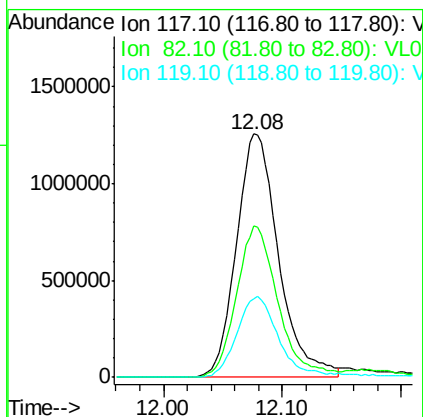
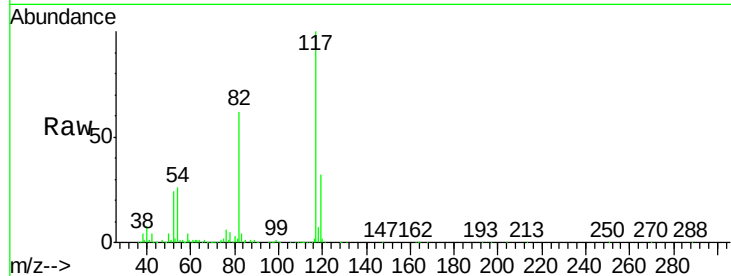


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 12 Oct 2021 16:37

Tot Ion: 1
Ion Ratio
117 100
82 61.
119 34.

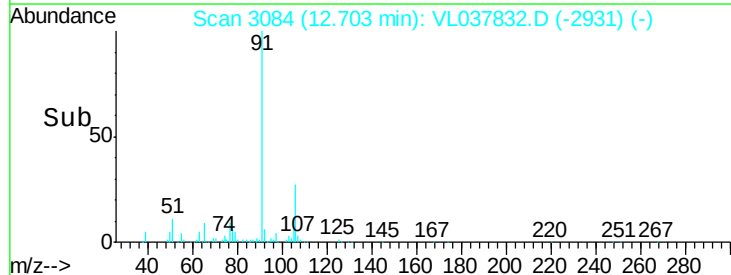
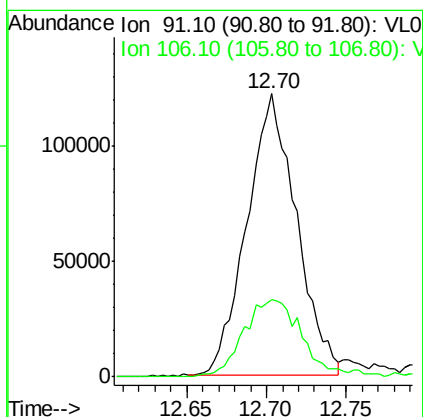
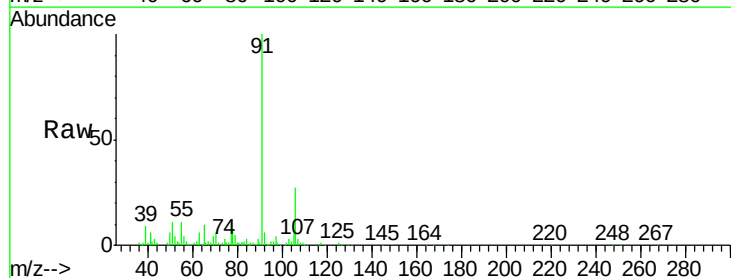
Manual Integrations
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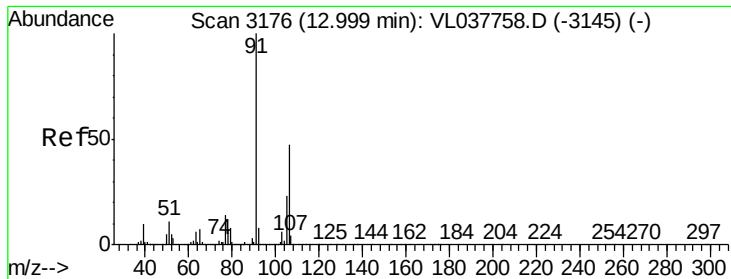
Reviewed By :Semsettin Yesilyurt 10/14/2021
Supervised By :Mahesh Dadoda 10/15/2021



#58
Ethyl Benzene
Concen: 0.630 ppbv
RT: 12.70 min Scan# 3084
Delta R.T. -0.01 min
Lab File: VL037832.D
Acq: 12 Oct 2021 16:37

Tgt Ion: 91 Resp: 260426
Ion Ratio Lower Upper
91 100
106 27.6 25.3 37.9



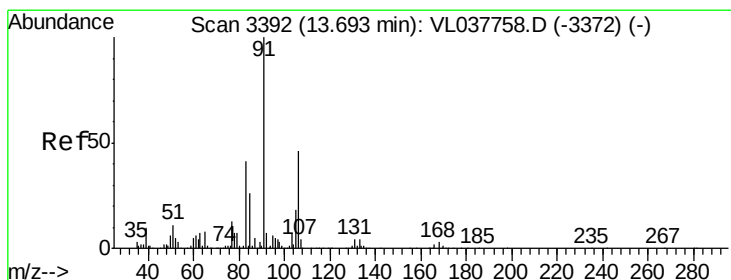
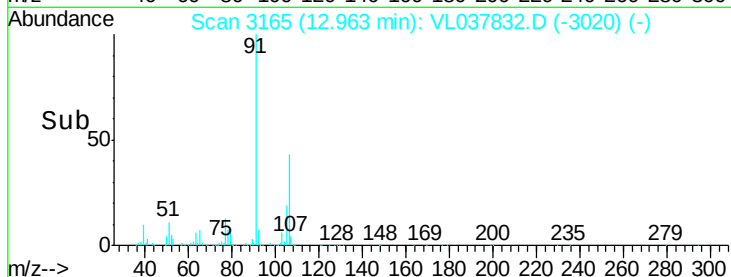
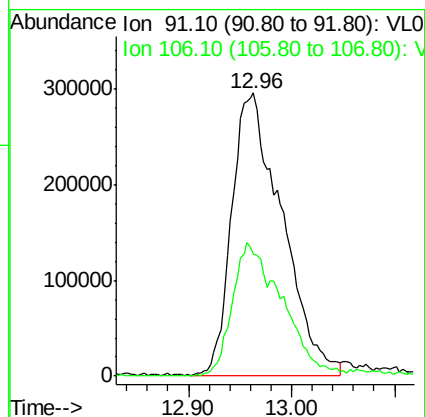
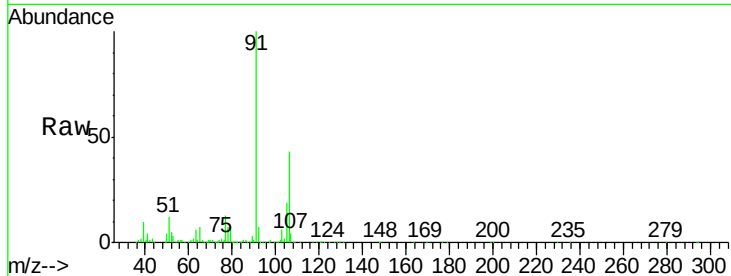


#59
m/p-Xylene
Concen: 2.804 ppbv
RT: 12.96 min
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 12 Oct 2021 16:37

Tot Ion:
Ion Ratio
91 100
106 48.

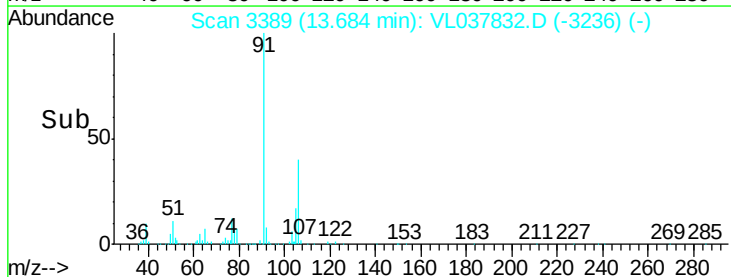
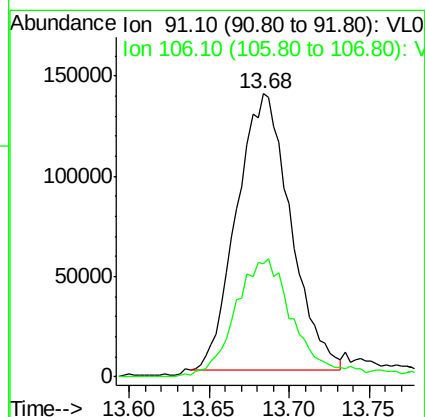
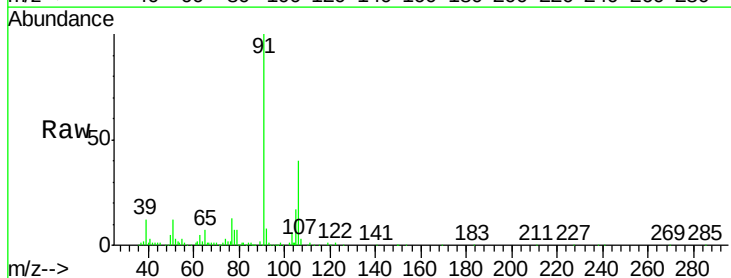
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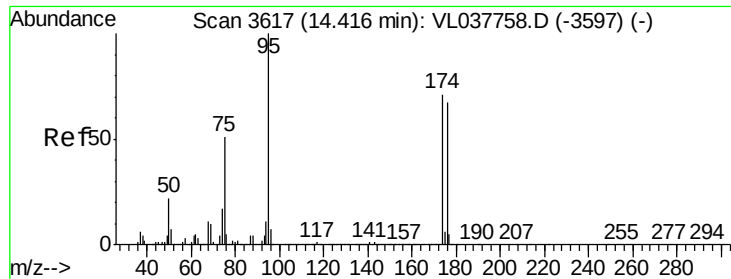
Reviewed By :Semsettin Yesilyurt 10/14/2021
Supervised By :Mahesh Dadoda 10/15/2021



#60
o-Xylene
Concen: 0.936 ppbv
RT: 13.68 min Scan# 3389
Delta R.T.: -0.01 min
Lab File: VL037832.D
Acq: 12 Oct 2021 16:37

Tgt Ion: 91 Resp: 318352
Ion Ratio Lower Upper
91 100
106 49.9 23.5 70.5



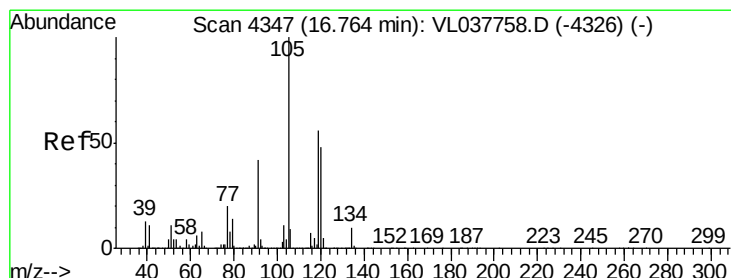
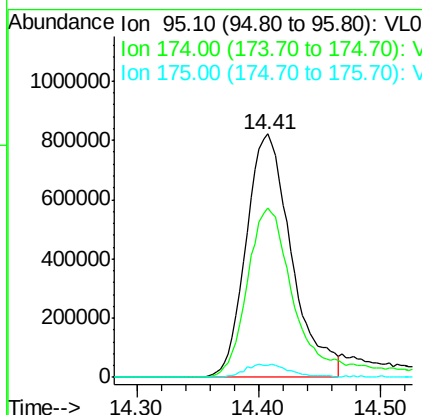
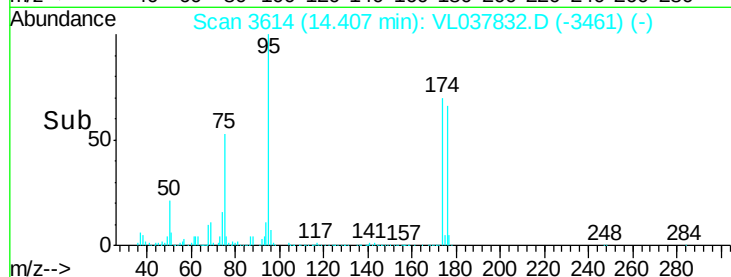
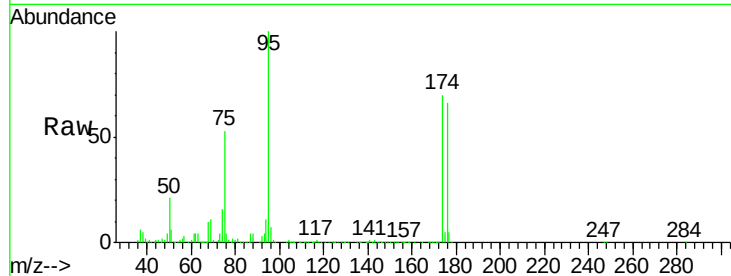


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.828 ppbv
 RT: 14.41 min
 Delta R.T.: 0.01 min
 Lab File: C0P47DUP
 Acq: 12 Oct 2021 16:37

Tot Ion:
 Ion Ratio
 95 100
 174 78.1
 175 5.1

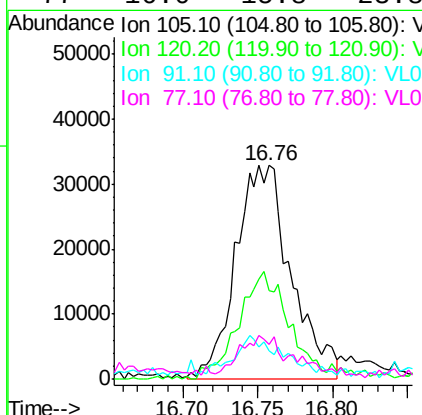
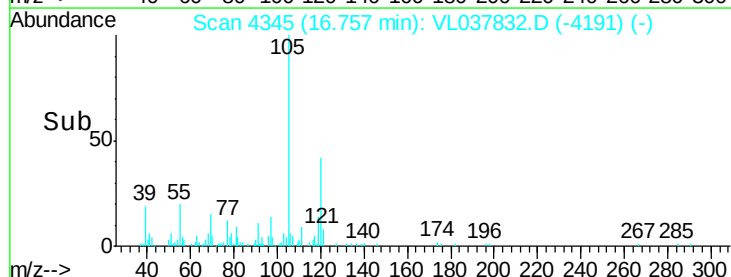
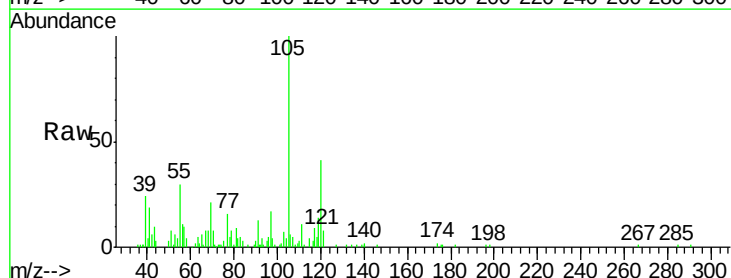
Manual Integrations
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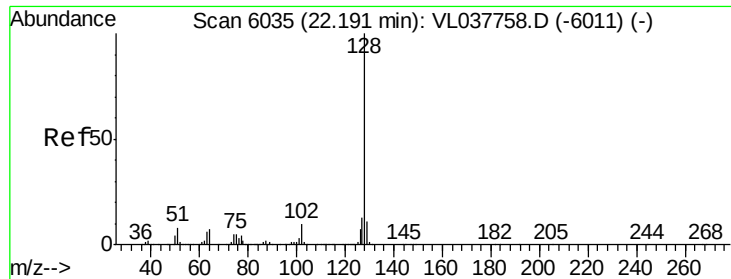
Reviewed By :Semsettin Yesilyurt 10/14/2021
 Supervised By :Mahesh Dadoda 10/15/2021



#74
 1,2,4-Trimethylbenzene
 Concen: 0.229 ppbv m
 RT: 16.76 min Scan# 4345
 Delta R.T.: -0.01 min
 Lab File: VL037832.D
 Acq: 12 Oct 2021 16:37

Tgt Ion:105 Resp: 84327
 Ion Ratio Lower Upper
 105 100
 120 41.5 38.4 57.6
 91 13.2 34.2 51.2#
 77 16.0 15.8 23.8





#79

Naphthalene

Concen: 0.250 ppbv m

RT: 22.19

Delta R.T MSVOA_L

Lab File: ClientSampleId :

Acq: 12 Oct 2021 18:37

Tot Ion:1

Ion Rati

128 100

127 13.

129 12.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/14/2021

Supervised By :Mahesh Dadoda 10/15/2021

