

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111021\
 Data File : VL038012.D
 Acq On : 10 Nov 2021 16:48
 Operator : SY/AP
 Sample : M4598-03DUPDL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 356-2DLDUP

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/11/2021
 Supervised By : Mahesh Dadoda 11/17/2021

Quant Time: Nov 11 04:57:45 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110121A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Tue Nov 02 05:54:07 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1551710	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4430032	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3895151	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2861272	10.11	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.10%

Target Compounds

					Ovalue
3) Chlorodifluoromethane	2.99	51	734271m	2.542	ppbv
9) Propene	3.01	41	177886	1.718	ppbv 90
13) Ethanol	3.60	45	152415m	14.587	ppbv
15) Acetone	3.84	43	1554753	12.125	ppbv # 81
17) tert-Butyl alcohol	4.29	59	75218m	0.564	ppbv
19) Isopropyl Alcohol	3.97	45	100157	1.221	ppbv # 85
20) Methylene Chloride	4.34	84	69113	0.982	ppbv # 82
22) trans-1,2-Dichloroethene	4.88	96	77044	0.993	ppbv # 87
26) Hexane	5.67	57	72371m	0.401	ppbv
27) Carbon Disulfide	4.55	76	136551	0.767	ppbv # 88
31) cis-1,2-Dichloroethene	5.54	61	24262m	0.147	ppbv
34) 2-Butanone	5.23	43	927529	5.650	ppbv 99
38) Trichloroethene	7.82	130	238935	1.596	ppbv 97
51) 2-Hexanone	10.13	43	60234m	0.663	ppbv
52) Tetrachloroethene	11.21	164	611624	4.469	ppbv 97
53) Toluene	9.79	91	397326	1.027	ppbv 97
58) Ethyl Benzene	12.69	91	81145m	0.170	ppbv
59) m/p-Xylene	12.95	91	253053m	0.598	ppbv
60) o-Xylene	13.67	91	99298m	0.249	ppbv
74) 1,2,4-Trimethylbenzene	16.74	105	60692m	0.135	ppbv

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

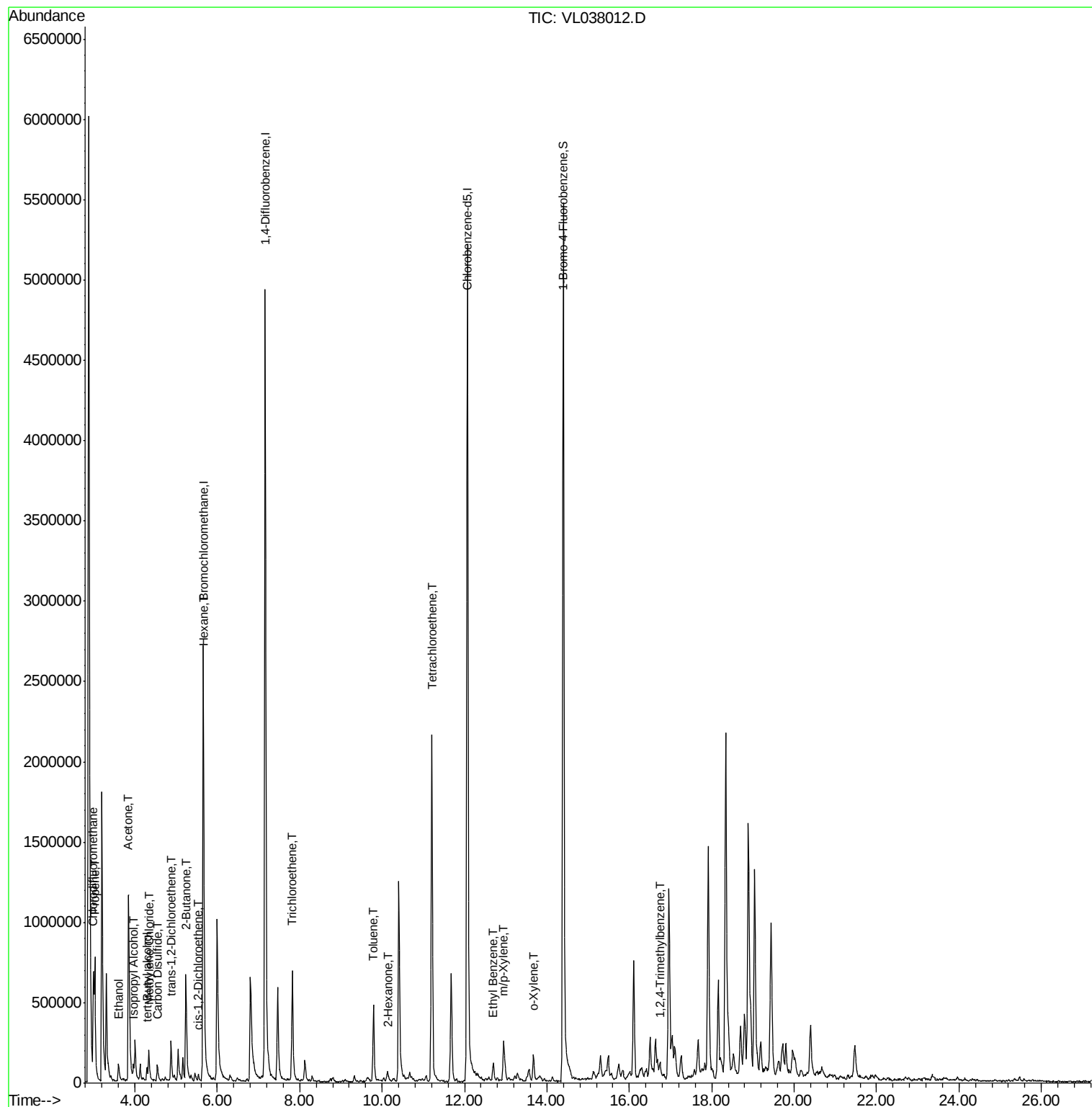
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Data File : VL038012.D
Acq On : 10 Nov 2021 16:48
Operator : SY/AP
Sample : M4598-03DUPDL 10X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

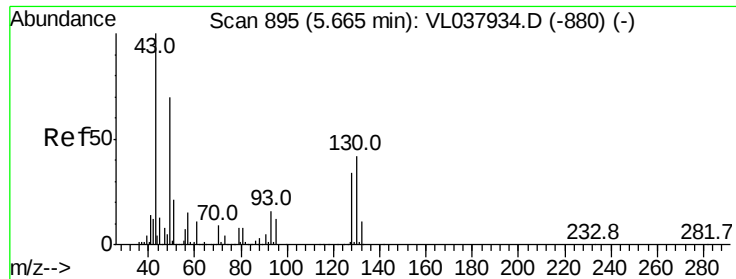
Instrument :
MSVOA_L
ClientSampleId :
356-2DLDUP

Quant Time: Nov 11 04:57:45 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL11021
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Tue Nov 02 05:54:07 2021
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: 356-2DL.DUP

Acq: 10 Nov 2021 16:48

Tot Ion:

Ion Ratio

49 100

128 50.

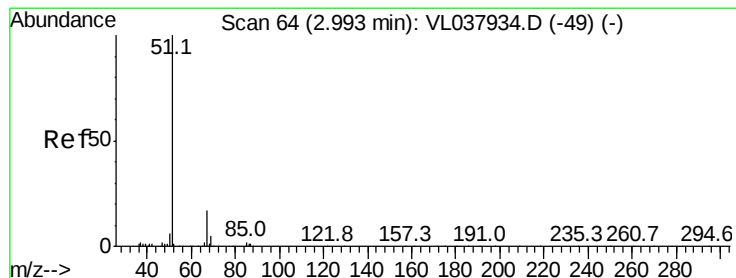
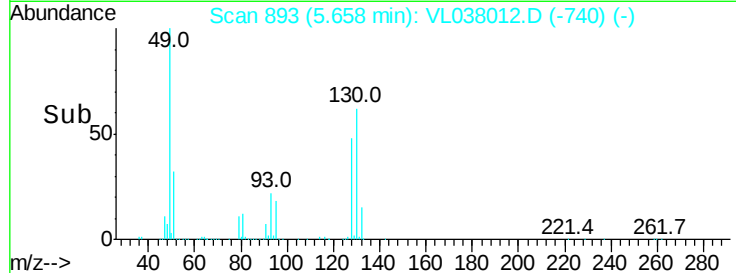
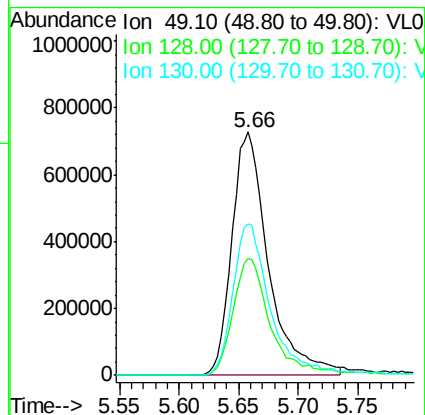
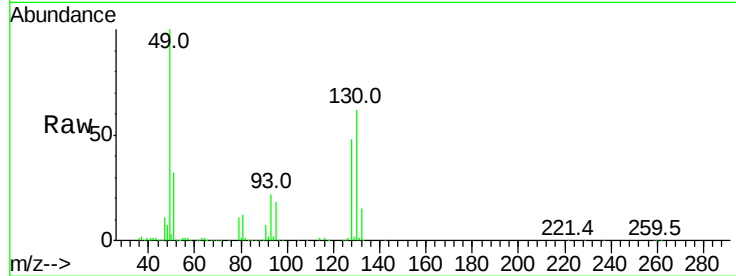
130 65.

Manual Integrations

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Supervised By :Mahesh Dadoda 11/17/2021



#3

Chlorodifluoromethane

Concen: 2.542 ppbv m

RT: 2.99 min Scan# 62

Delta R.T. -0.01 min

Lab File: VL038012.D

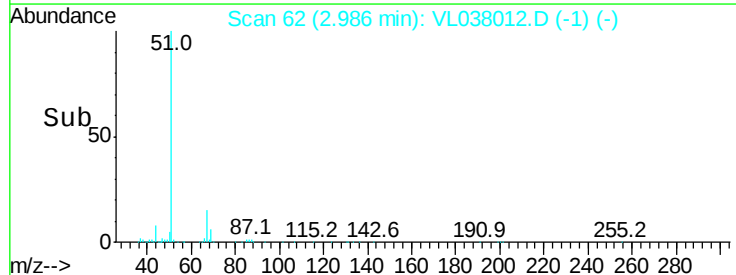
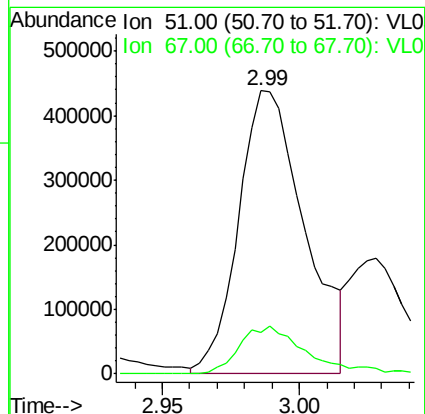
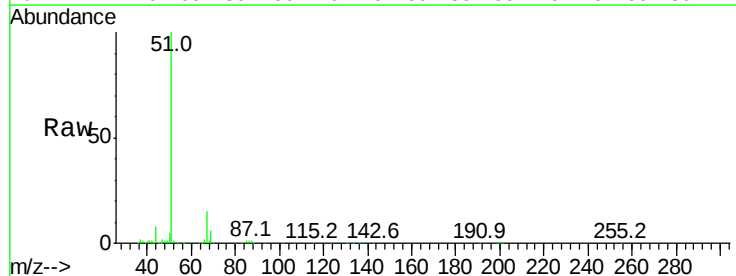
Acq: 10 Nov 2021 16:48

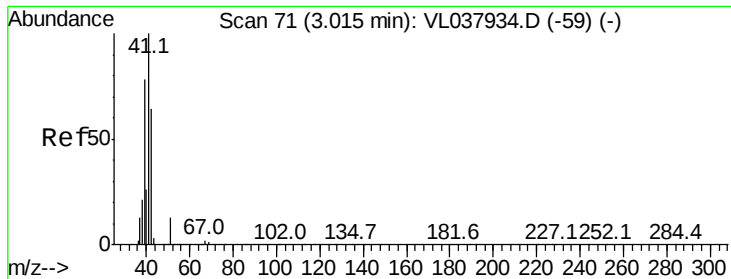
Tgt Ion: 51 Resp: 734271

Ion Ratio Lower Upper

51 100

67 17.9 13.4 20.0





#9

Propene

Concen: 1.718 ppbv

RT: 3.01

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 10 Nov 2021 16:48

Tot Ion:

Ion Ratio

41 100

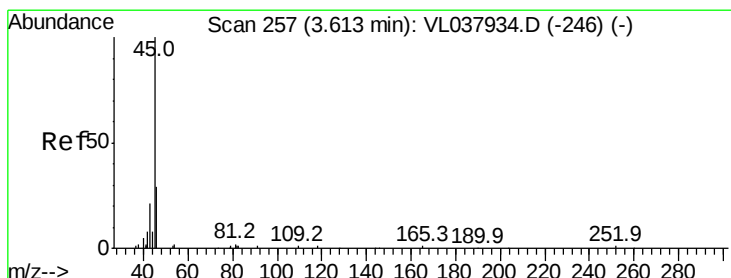
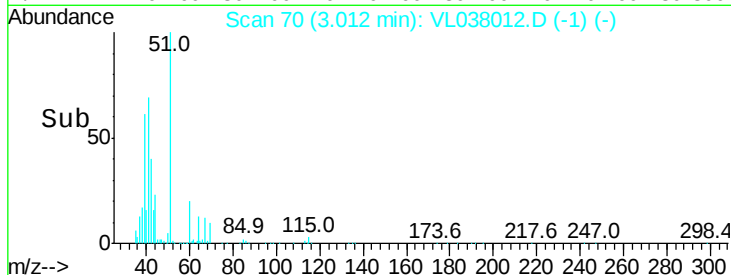
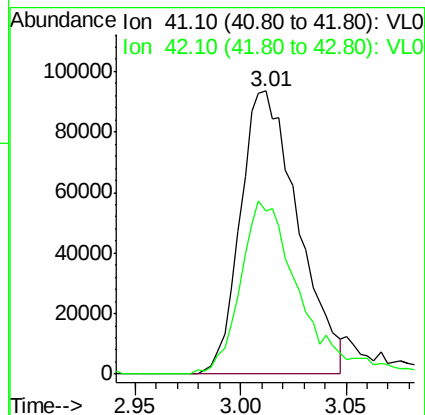
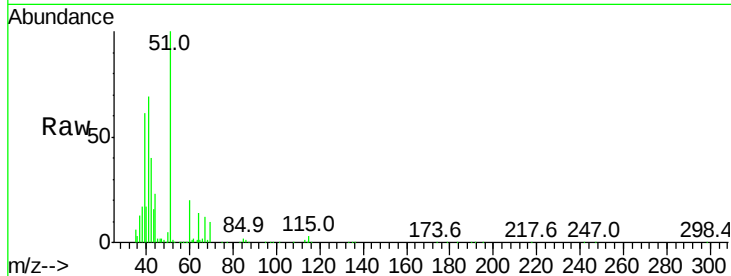
42 64.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/11/2021

Supervised By :Mahesh Dadoda 11/17/2021



#13

Ethanol

Concen: 14.587 ppbv m

RT: 3.60 min Scan# 254

Delta R.T. -0.01 min

Lab File: VL038012.D

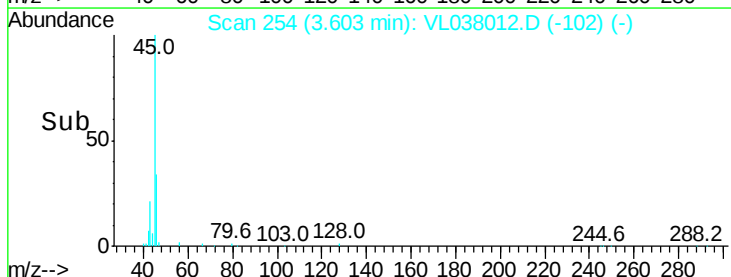
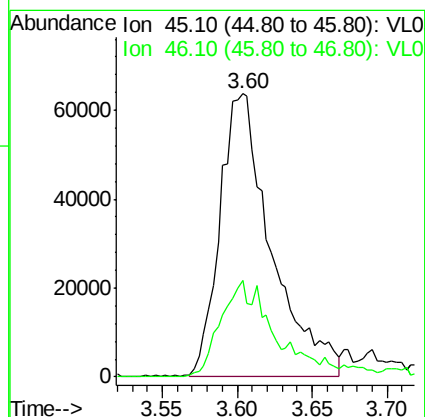
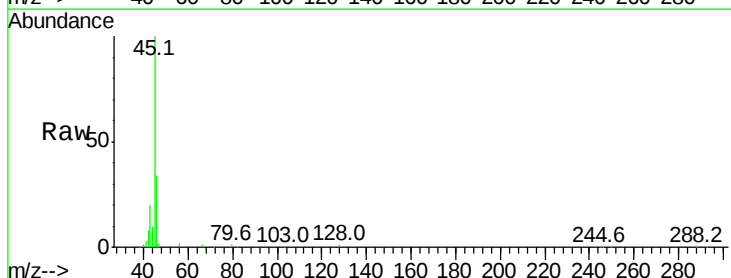
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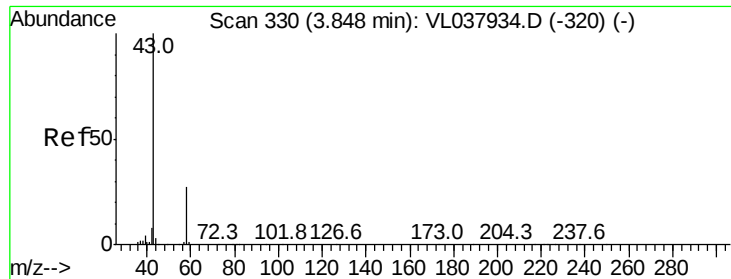
Tgt Ion: 45 Resp: 152415

Ion Ratio Lower Upper

45 100

46 38.7 17.4 69.8



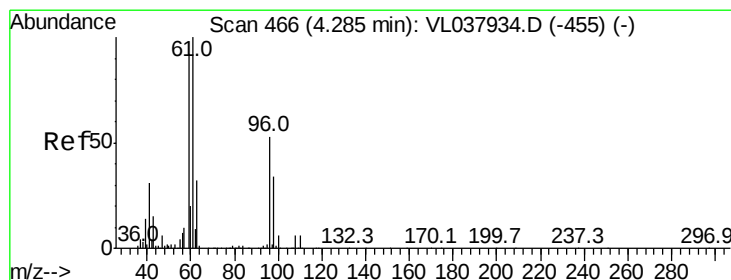
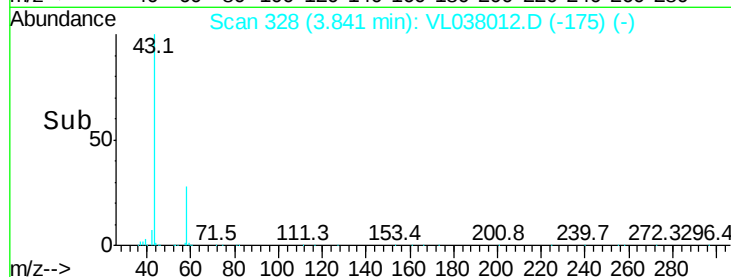
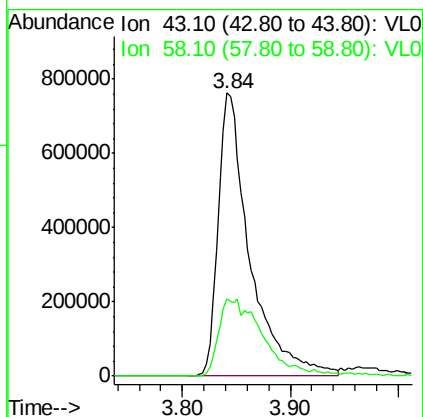
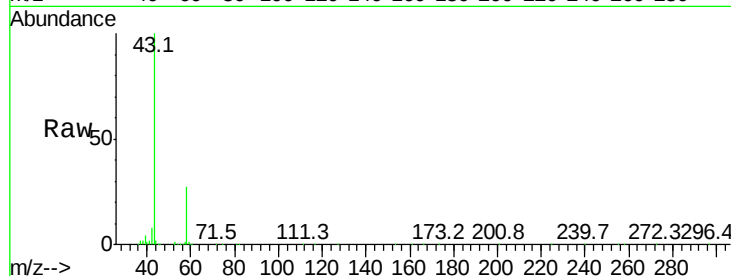


#15
Acetone
Concen: 12.125 ppbv
RT: 3.84
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
356-2DL DUP
Acq: 10 Nov 2021 16:48

Tot Ion:
Ion Ratio
43 100
58 39.

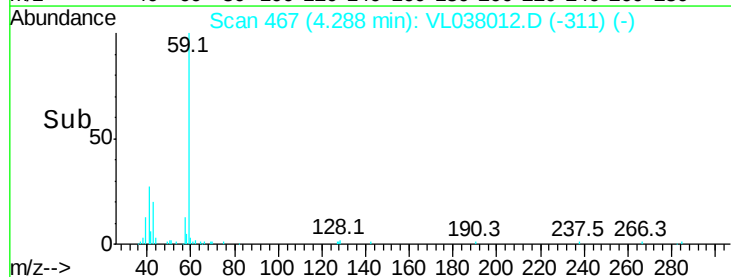
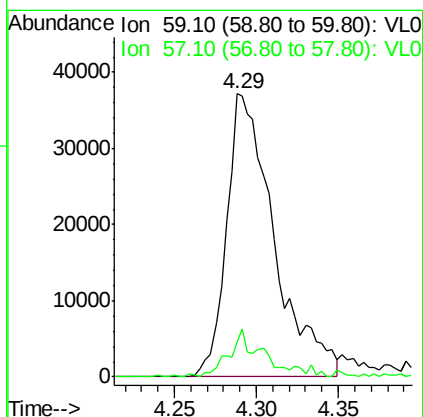
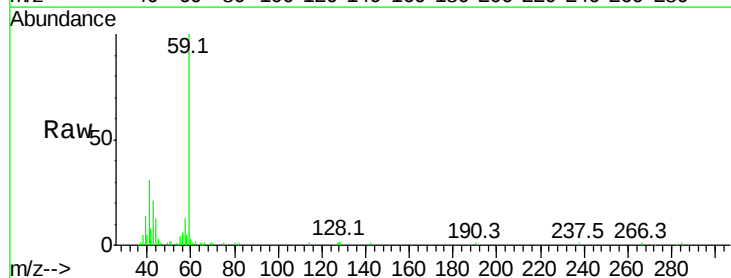
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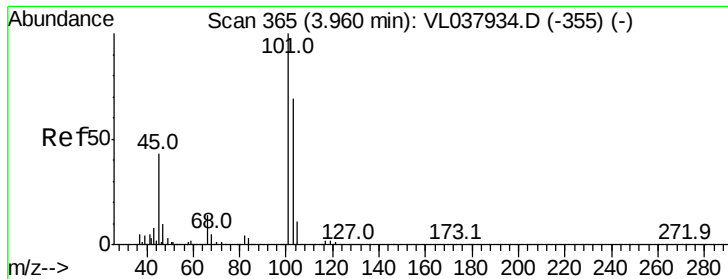
Reviewed By :Semsettin Yesilyurt 11/11/2021
Supervised By :Mahesh Dadoda 11/17/2021



#17
tert-Butyl alcohol
Concen: 0.564 ppbv m
RT: 4.29 min Scan# 467
Delta R.T. 0.00 min
Lab File: VL038012.D
Acq: 10 Nov 2021 16:48

Tgt Ion: 59 Resp: 75218
Ion Ratio Lower Upper
59 100
57 11.9 8.9 13.3





#19

Isopropyl Alcohol

Concen: 1.221 ppbv

RT: 3.97

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 10 Nov 2021 16:48

Tot Ion:

Ion Ratio

45 100

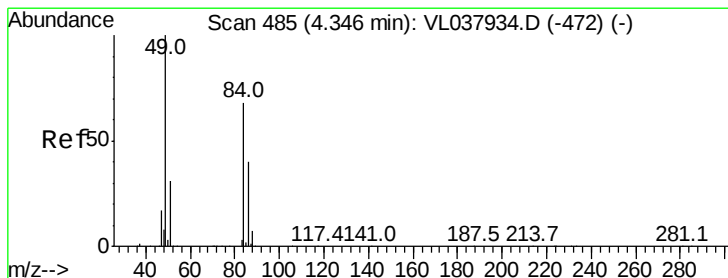
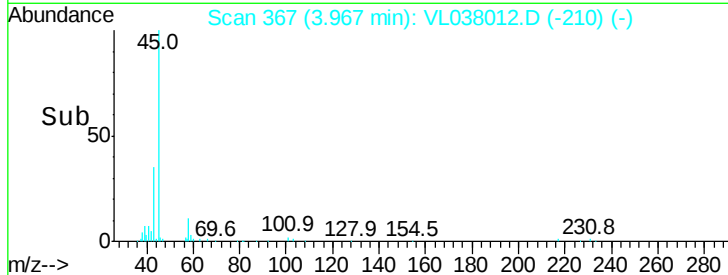
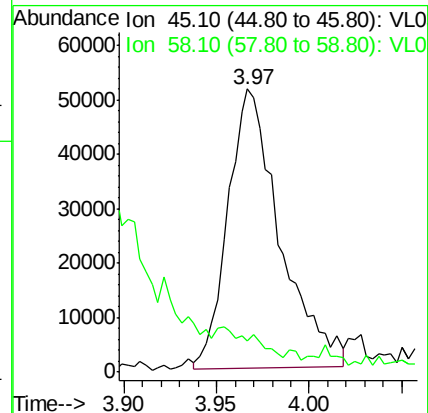
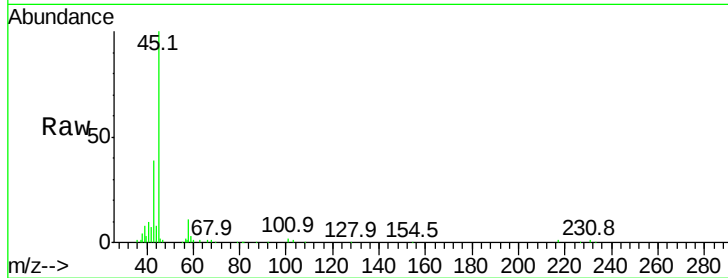
58 0.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/11/2021

Supervised By :Mahesh Dadoda 11/17/2021



#20

Methylene Chloride

Concen: 0.982 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.01 min

Lab File: VL038012.D

Acq: 10 Nov 2021 16:48

Tgt Ion: 84 Resp: 69113

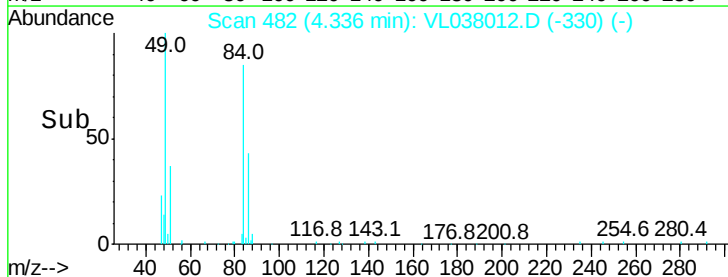
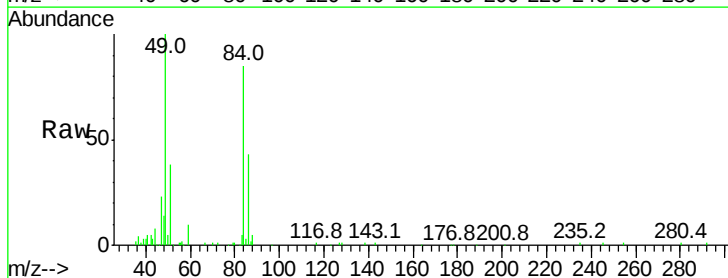
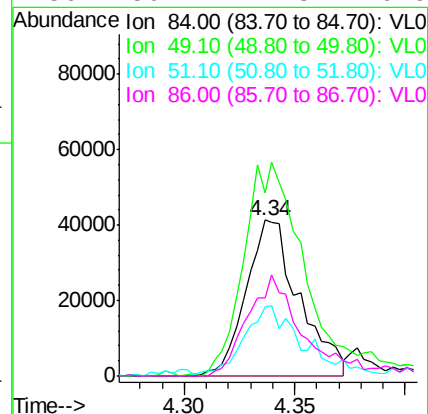
Ion Ratio Lower Upper

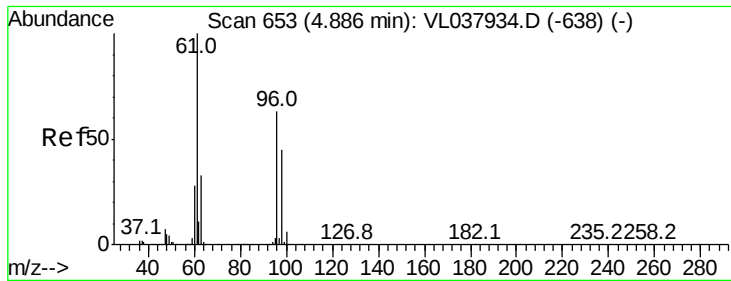
84 100

49 115.6 117.5 176.3#

51 43.1 35.9 53.9

86 50.1 47.3 70.9





#22

trans-1,2-Dichloroethene

Concen: 0.993 ppbv

RT: 4.88

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 10 Nov 2021 16:48

Tot Ion:

Ion Ratio

96 100

61 173.

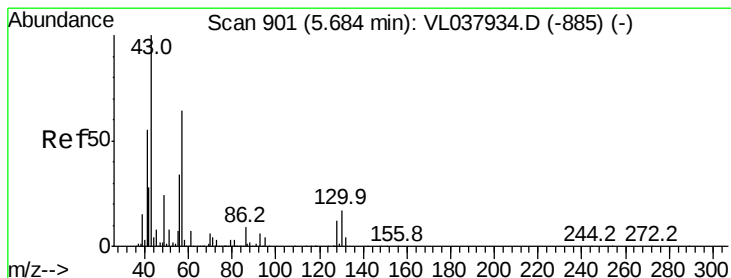
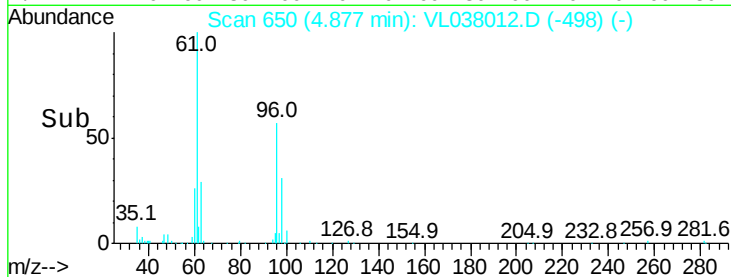
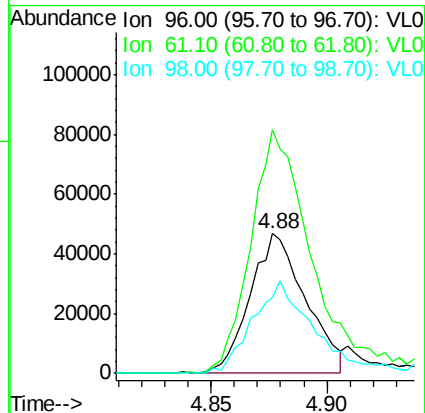
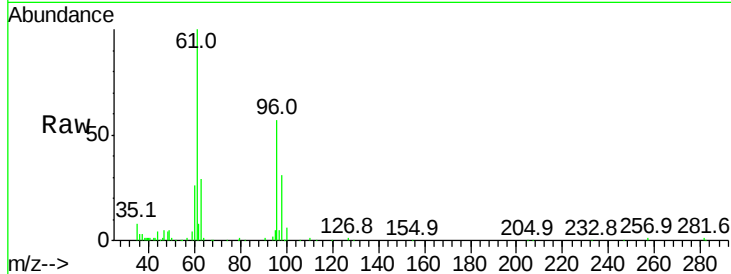
98 55.

Manual Integrations

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Supervised By :Mahesh Dadoda 11/17/2021



#26

Hexane

Concen: 0.401 ppbv m

RT: 5.67 min Scan# 898

Delta R.T. -0.01 min

Lab File: VL038012.D

Acq: 10 Nov 2021 16:48

Tgt Ion: 57 Resp: 72371

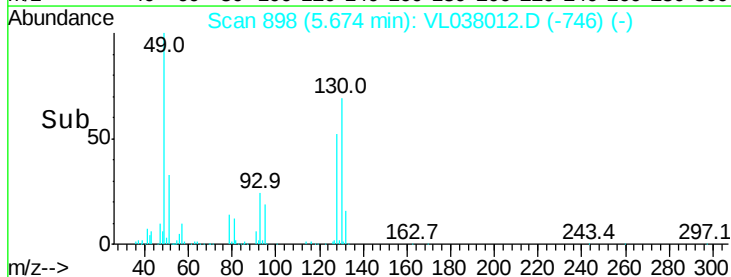
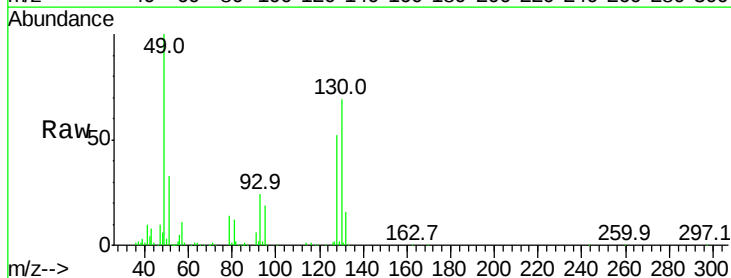
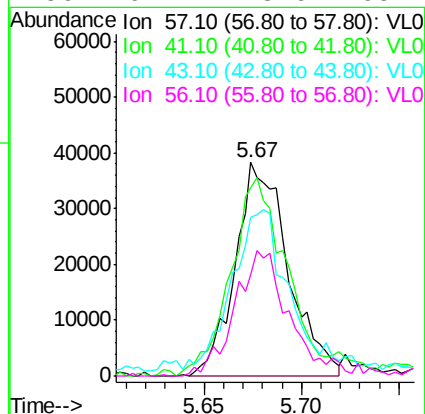
Ion Ratio Lower Upper

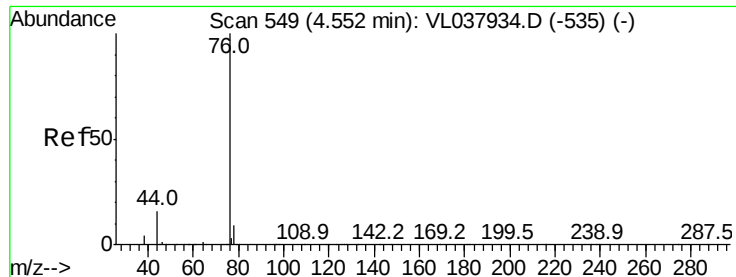
57 100

41 108.1 71.0 106.6#

43 100.4 173.0 259.6#

56 61.4 43.6 65.4





#27

Carbon Disulfide

Concen: 0.767 ppbv

RT: 4.55 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: 356-2DL.DUP

Acq: 10 Nov 2021 16:48

Tot Ion:

Ion Ratio

76 100

44 23.

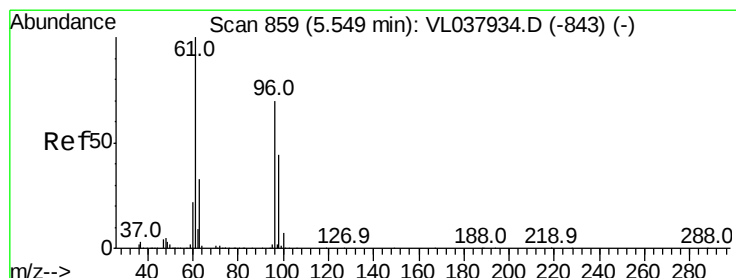
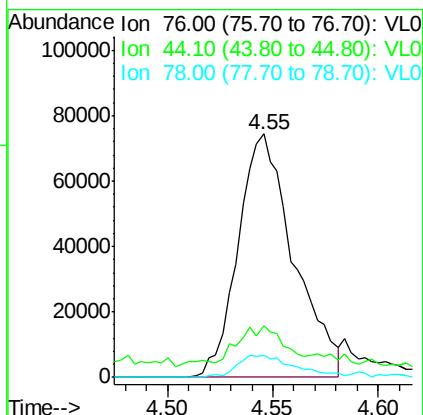
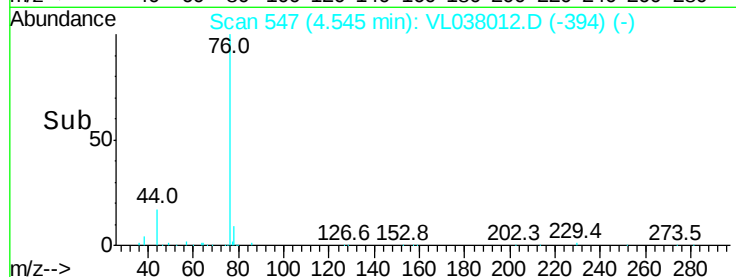
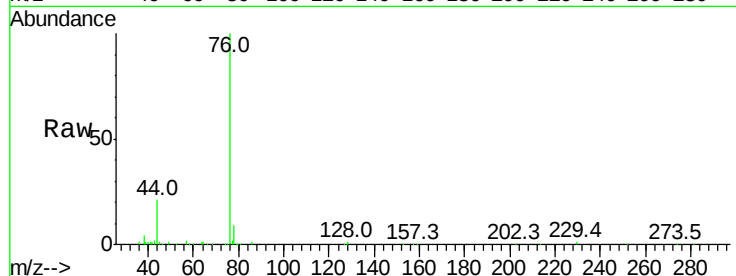
78 10.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/11/2021

Supervised By :Mahesh Dadoda 11/17/2021



#31

cis-1,2-Dichloroethene

Concen: 0.147 ppbv m

RT: 5.54 min Scan# 855

Delta R.T. -0.01 min

Lab File: VL038012.D

Acq: 10 Nov 2021 16:48

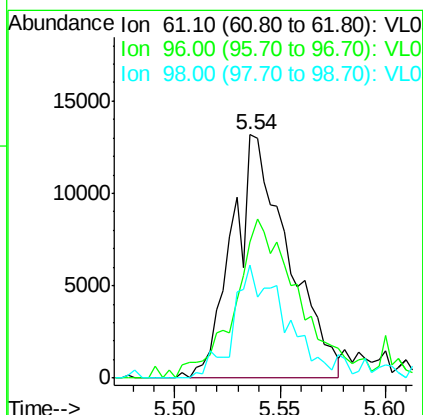
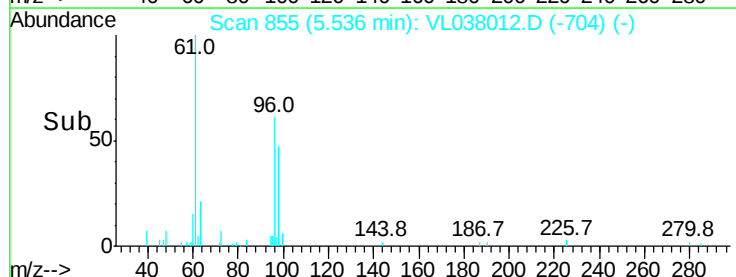
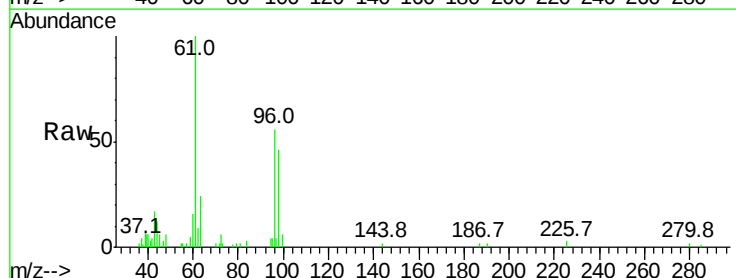
Tgt Ion: 61 Resp: 24262

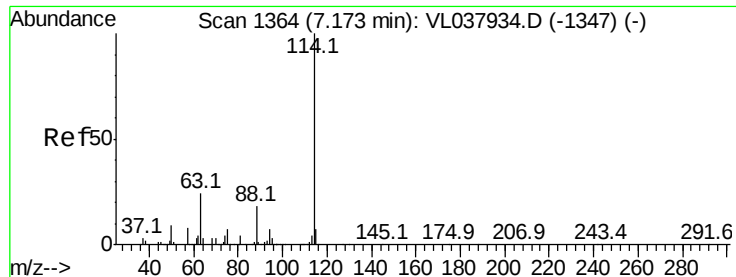
Ion Ratio Lower Upper

61 100

96 55.8 55.6 83.4

98 46.2 34.9 52.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16

Instrument: MSVOA_L

Delta R.T.:

Lab File: ClientSampleId:

Acq: 10 Nov 2021 16:48

Tot Ion: 1

Ion Ratio

114 100

63 24.

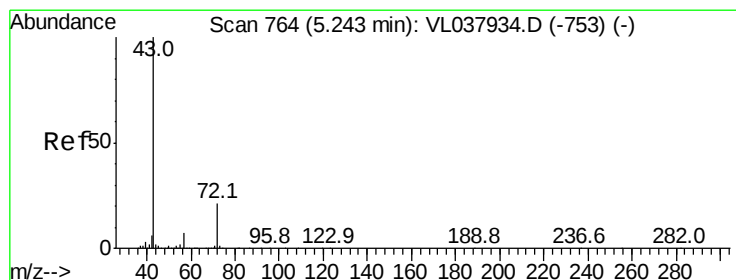
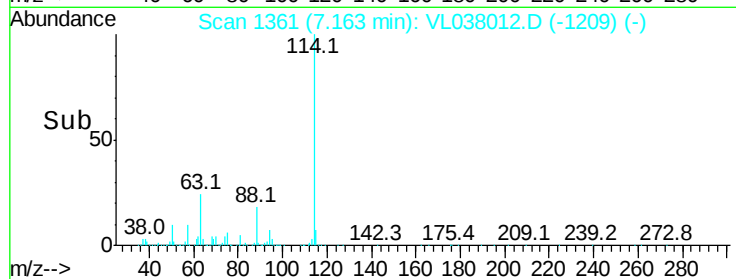
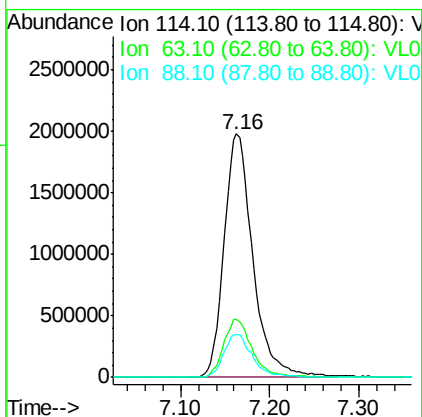
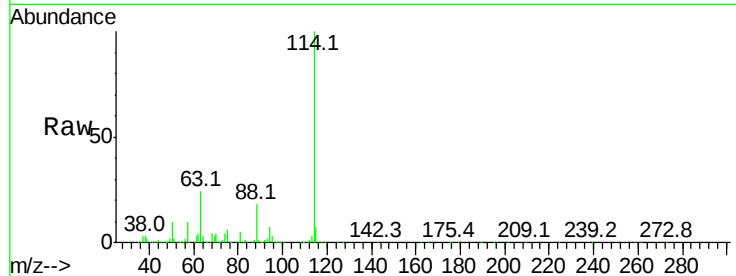
88 17.

Manual Integrations

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Reviewed By : Semsettin Yesilyurt 11/11/2021

Supervised By : Mahesh Dadoda 11/17/2021



#34

2-Butanone

Concen: 5.650 ppbv

RT: 5.23 min Scan# 761

Delta R.T. -0.01 min

Lab File: VL038012.D

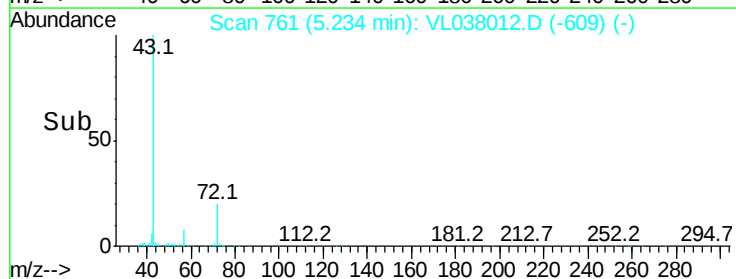
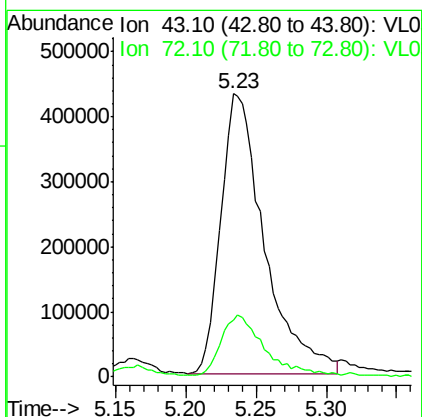
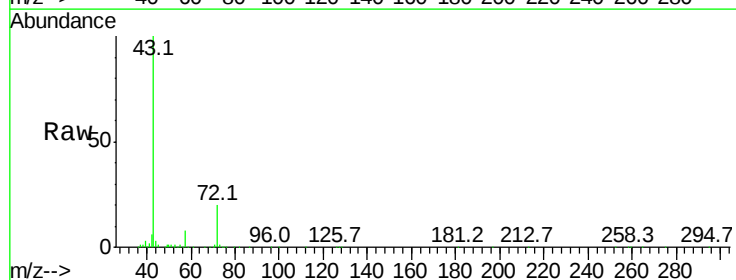
Acq: 10 Nov 2021 16:48

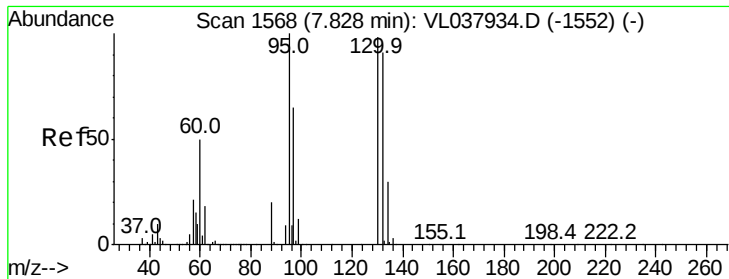
Tgt Ion: 43 Resp: 927529

Ion Ratio Lower Upper

43 100

72 23.6 18.3 27.5



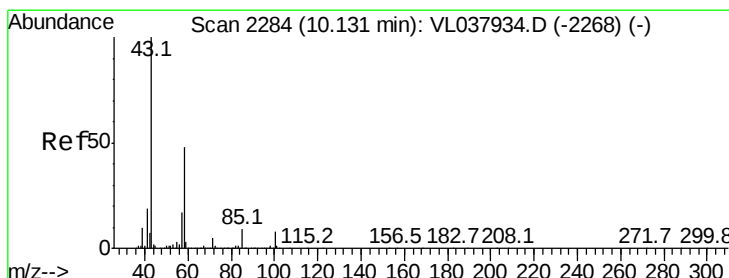
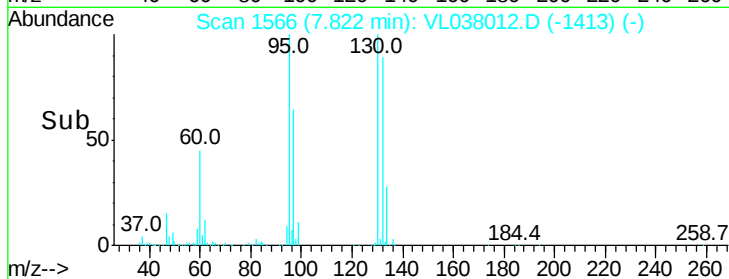
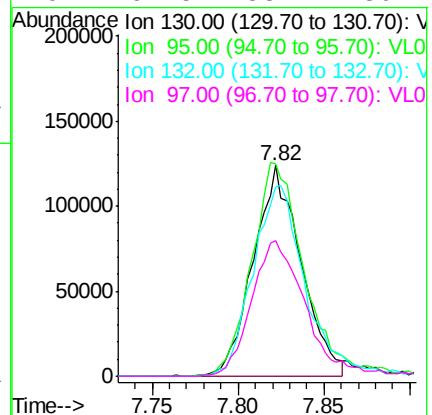
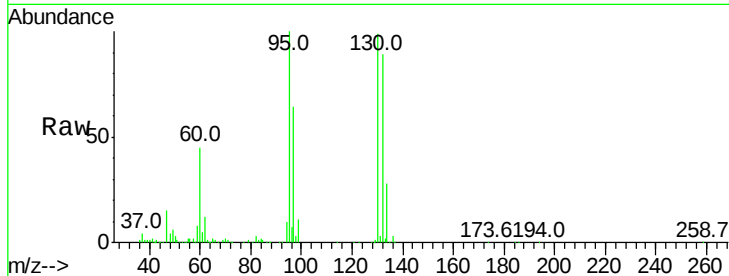


#38
 Trichloroethene
 Concen: 1.596 ppbv
 RT: 7.82
 Delta R.T.:
 Lab File: MSVOA_1
 ClientSampleId:
 356-2DL.DUP
 Acq: 10 Nov 2021 16:48

Tot Ion: 1
 Ion Ratio
 130 100
 95 100.
 132 89.
 97 64.5 53.4 80.2

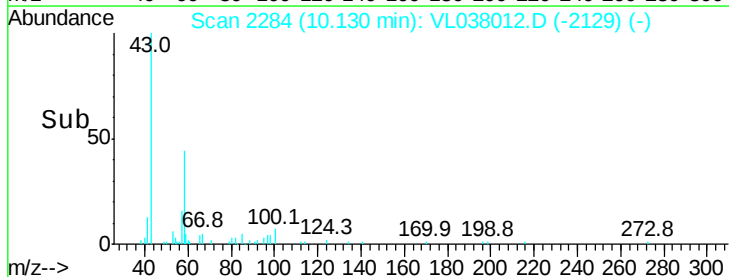
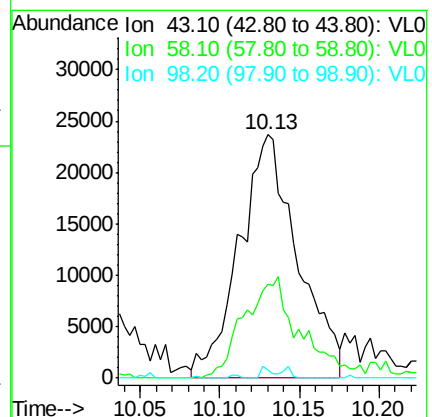
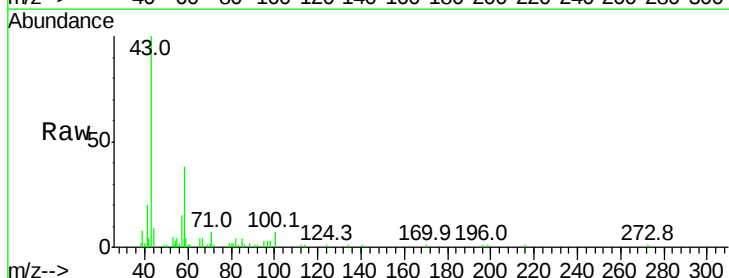
Manual Integrations
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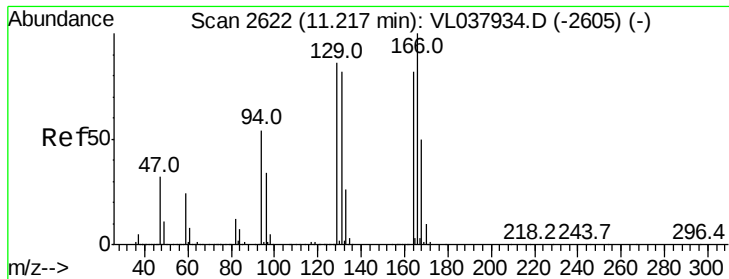
Reviewed By : Semsettin Yesilyurt 11/11/2021
 Supervised By : Mahesh Dadoda 11/17/2021



#51
 2-Hexanone
 Concen: 0.663 ppbv m
 RT: 10.13 min Scan# 2284
 Delta R.T.: -0.00 min
 Lab File: VL038012.D
 Acq: 10 Nov 2021 16:48

Tgt Ion: 43 Resp: 60234
 Ion Ratio Lower Upper
 43 100
 58 0.0 38.6 57.8#
 98 0.0 1.0 1.4#



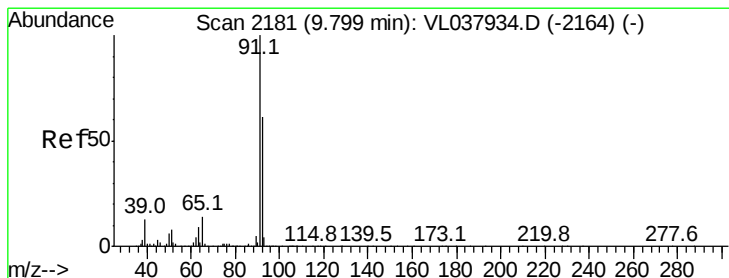
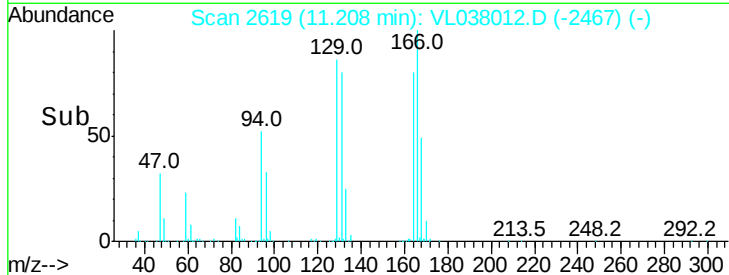
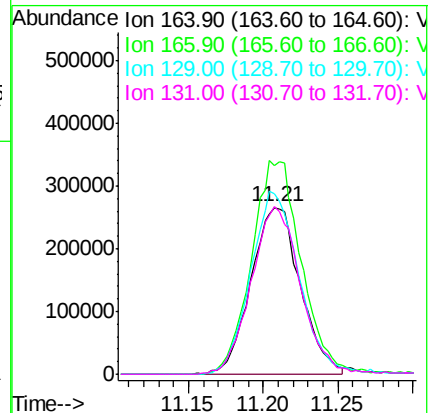
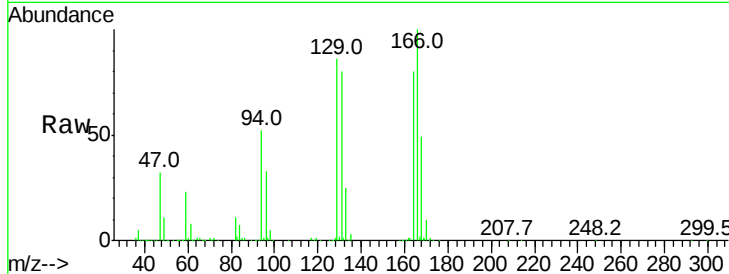


#52
Tetrachloroethene
Concen: 4.469 ppbv
RT: 11.21
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
356-2DL DUP
Acq: 10 Nov 2021 16:48

Tot Ion: 1
Ion Ratio
164 100
166 125.
129 108.
131 100.9 79.6 119.4

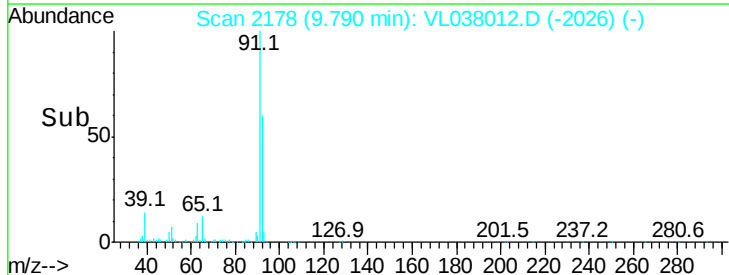
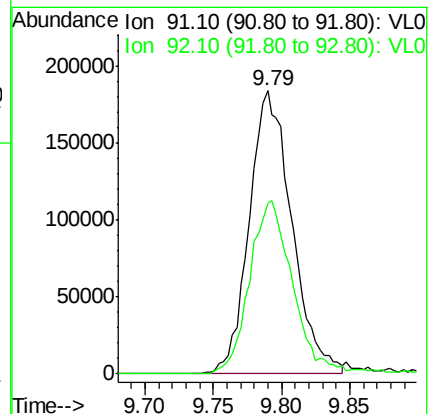
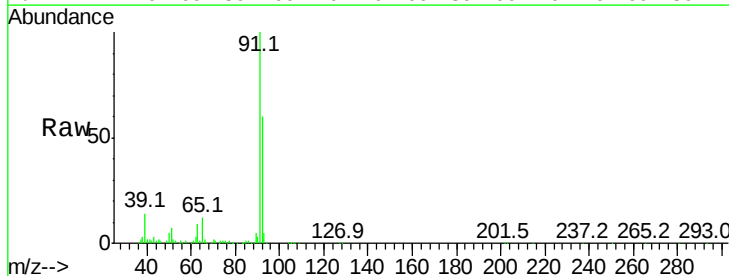
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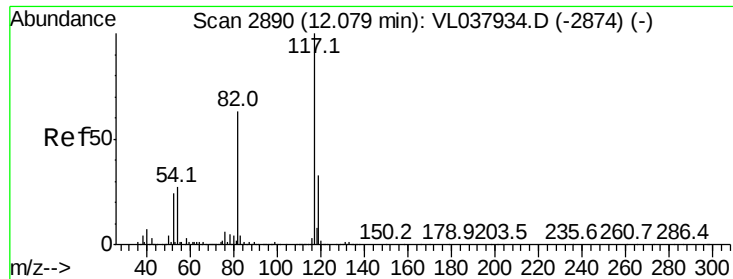
Reviewed By : Semsettin Yesilyurt 11/11/2021
Supervised By : Mahesh Dadoda 11/17/2021



#53
Toluene
Concen: 1.027 ppbv
RT: 9.79 min Scan# 2178
Delta R.T. -0.01 min
Lab File: VL038012.D
Acq: 10 Nov 2021 16:48

Tgt Ion: 91 Resp: 397326
Ion Ratio Lower Upper
91 100
92 62.9 48.2 72.4



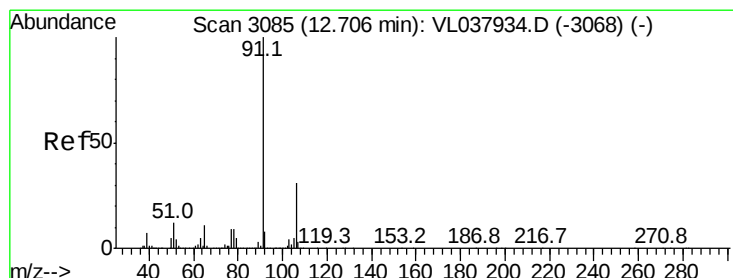
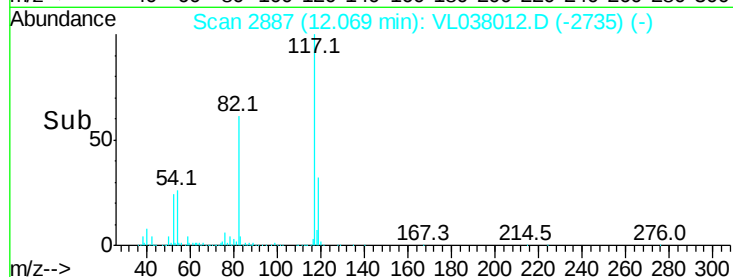
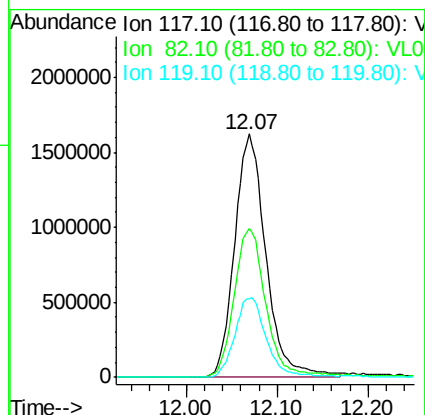
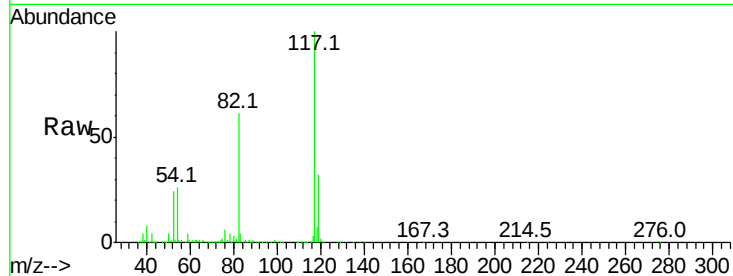


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
356-2DL DUP
Acq: 10 Nov 2021 16:48

Tot Ion: 1
Ion Ratio
117 100
82 63.
119 33.

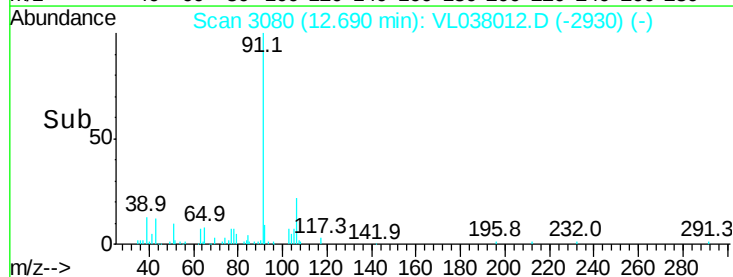
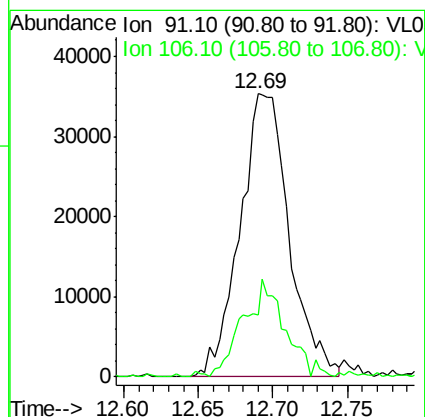
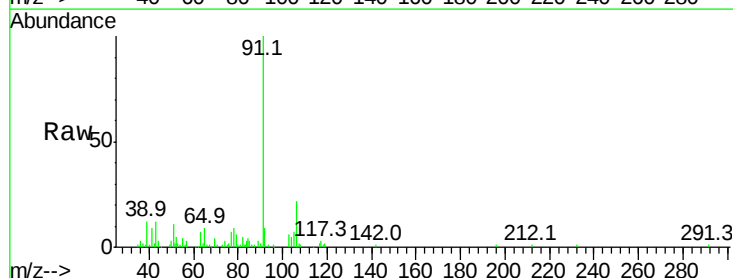
Manual Integrations
APPROVED

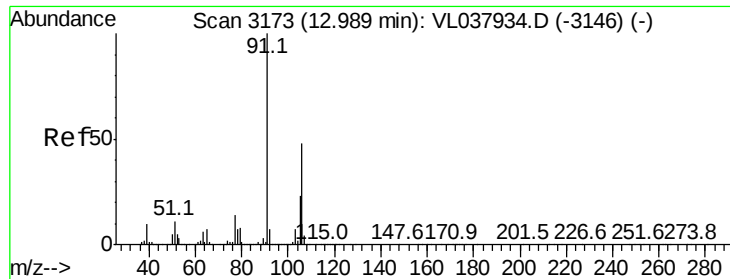
Reviewed By : Semsettin Yesilyurt 11/11/2021
Supervised By : Mahesh Dadoda 11/17/2021



#58
Ethyl Benzene
Concen: 0.170 ppbv m
RT: 12.69 min Scan# 3080
Delta R.T. -0.02 min
Lab File: VL038012.D
Acq: 10 Nov 2021 16:48

Tgt Ion: 91 Resp: 81145
Ion Ratio Lower Upper
91 100
106 21.8 25.1 37.7#



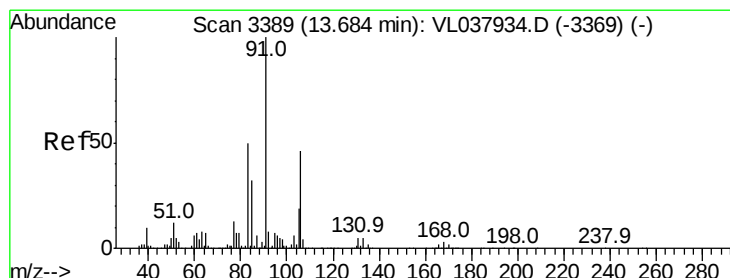
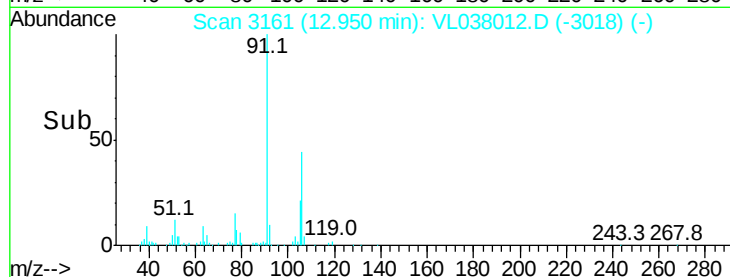
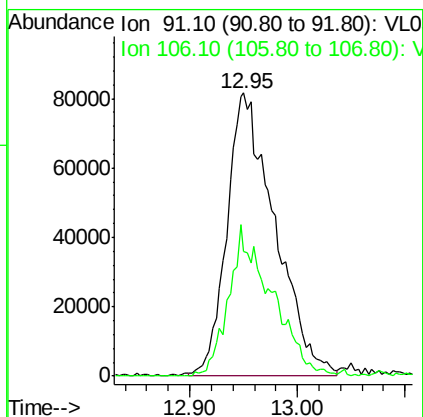
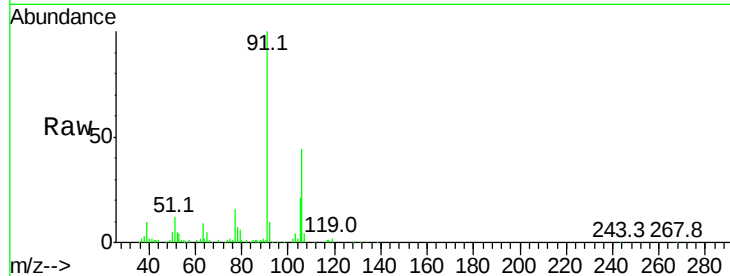


#59
m/p-Xylene
Concen: 0.598 ppbv m
RT: 12.95
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampled:
356-2DL DUP
Acq: 10 Nov 2021 16:48

Tot Ion:
Ion Ratio
91 100
106 0.

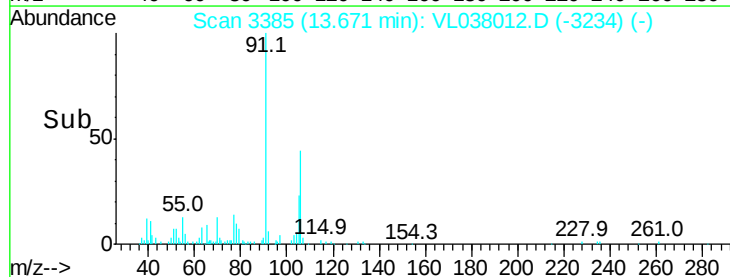
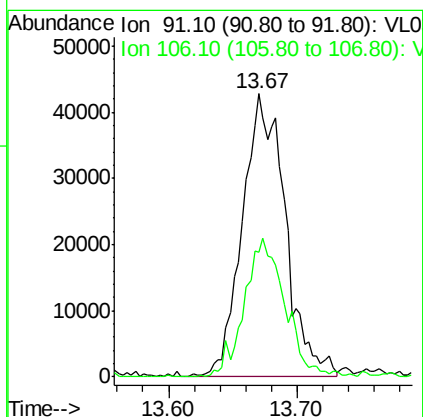
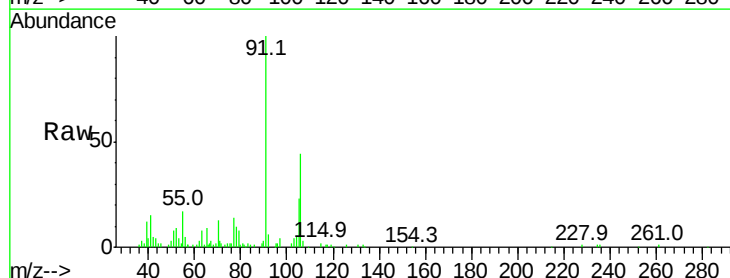
Manual Integrations
APPROVED

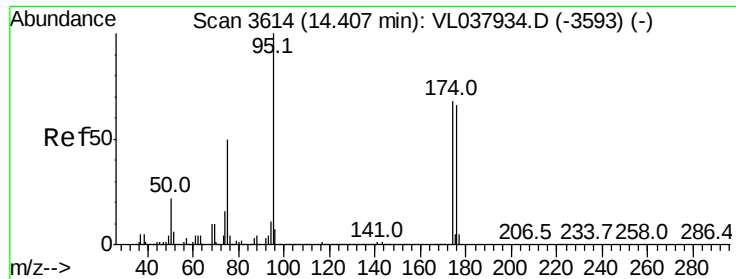
Reviewed By :Semsettin Yesilyurt 11/11/2021
Supervised By :Mahesh Dadoda 11/17/2021



#60
o-Xylene
Concen: 0.249 ppbv m
RT: 13.67 min Scan# 3385
Delta R.T. -0.01 min
Lab File: VL038012.D
Acq: 10 Nov 2021 16:48

Tgt Ion: 91 Resp: 99298
Ion Ratio Lower Upper
91 100
106 47.5 23.5 70.6





#68

1-Bromo-4-Fluorobenzene

Concen: 10.106 ppbv

RT: 14.40

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 10 Nov 2021 16:48

Tot Ion:

Ion Ratio

95 100

174 73.

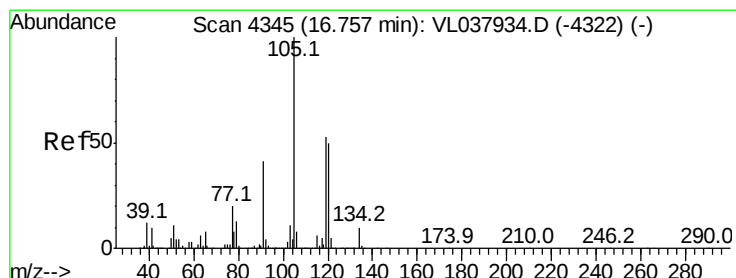
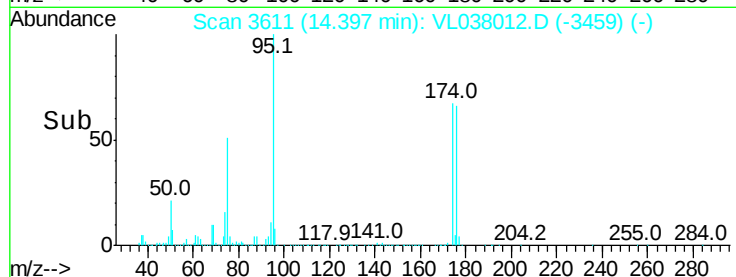
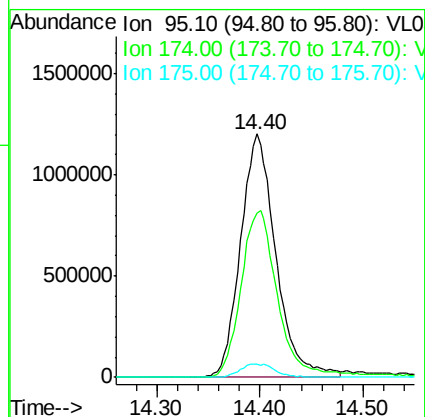
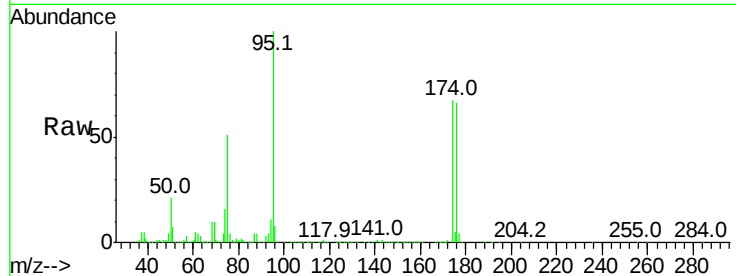
175 5.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/11/2021

Supervised By :Mahesh Dadoda 11/17/2021



#74

1,2,4-Trimethylbenzene

Concen: 0.135 ppbv m

RT: 16.74 min Scan# 4341

Delta R.T. -0.01 min

Lab File: VL038012.D

Acq: 10 Nov 2021 16:48

Tgt Ion:105 Resp: 60692

Ion Ratio Lower Upper

105 100

120 52.9 40.0 60.0

91 8.7 32.6 49.0#

77 13.3 15.8 23.8#

