

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101221\
 Data File : VL037840.D
 Acq On : 12 Oct 2021 21:52
 Operator : SY/AP
 Sample : M4079-09
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 COP14

Manual Integrations
 APPROVED

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

Quant Time: Oct 14 02:14:30 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	1322571	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3773687	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3249559	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2337245	10.29	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.05	85	39617	0.188 ppbv	90
3) Chlorodifluoromethane	2.98	51	37622m	0.148 ppbv	
4) Chloromethane	3.13	50	37508	0.403 ppbv #	87
9) Propene	3.01	41	180636	1.932 ppbv	95
10) Heptane	8.12	43	55749m	0.263 ppbv	
11) Trichlorofluoromethane	3.95	101	42417m	0.225 ppbv	
13) Ethanol	3.60	45	389775	50.972 ppbv	87
15) Acetone	3.84	43	9958768	83.879 ppbv	93
17) tert-Butyl alcohol	4.29	59	143925	1.177 ppbv #	93
19) Isopropyl Alcohol	3.97	45	120425m	1.630 ppbv	
20) Methylene Chloride	4.34	84	773498	12.894 ppbv	98
26) Hexane	5.68	57	607781	3.705 ppbv #	50
27) Carbon Disulfide	4.54	76	86797	0.597 ppbv	96
29) Chloroform	5.74	83	192117	0.819 ppbv	91
32) 1,1,1-Trichloroethane	6.51	97	15712m	0.071 ppbv	
34) 2-Butanone	5.24	43	2481897	16.291 ppbv	98
35) Carbon Tetrachloride	7.01	117	6519m	0.030 ppbv	
36) Benzene	6.88	78	60811m	0.189 ppbv	
51) 2-Hexanone	10.13	43	260595	2.943 ppbv #	100
52) Tetrachloroethene	11.22	164	183518	1.463 ppbv	97
53) Toluene	9.80	91	146275	0.409 ppbv	99
58) Ethyl Benzene	12.70	91	158829	0.364 ppbv	93
59) m/p-Xylene	12.95	91	576367	1.539 ppbv	96
60) o-Xylene	13.68	91	200700	0.559 ppbv	100
61) Styrene	13.52	104	18175m	0.105 ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	72667m	0.187 ppbv	
79) Naphthalene	22.18	128	40808m	0.171 ppbv	

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

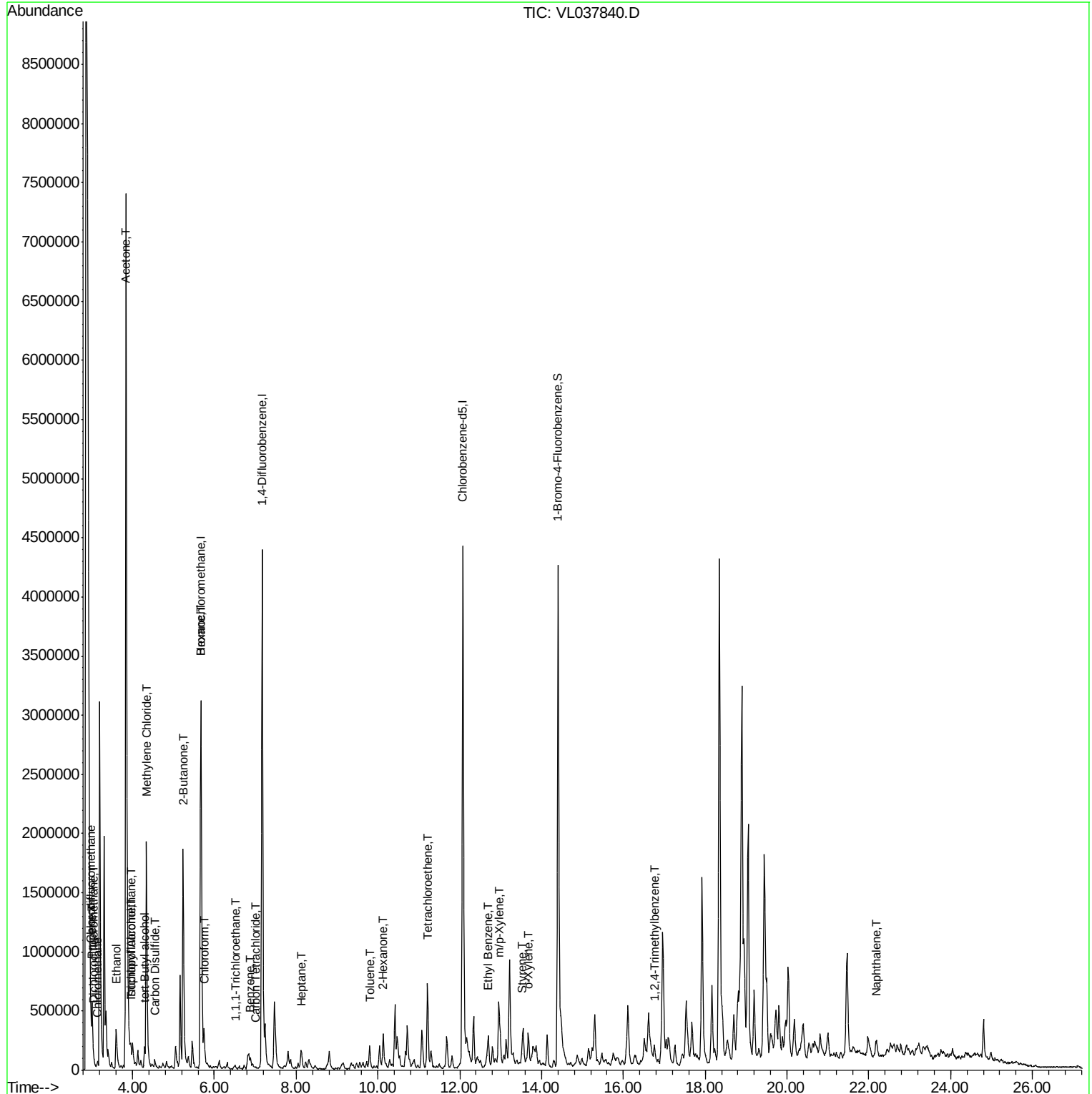
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101221\
Data File : VL037840.D
Acq On : 12 Oct 2021 21:52
Operator : SY/AP
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ALS Vial : 1 Sample Multiplier: 1

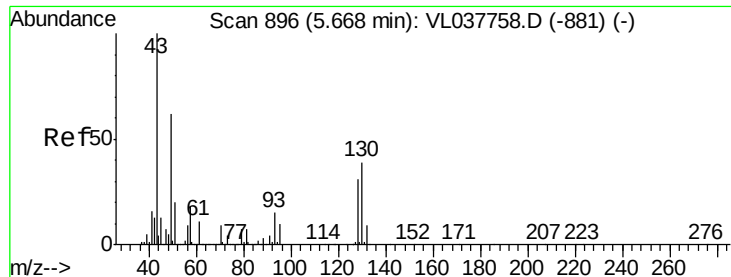
Instrument :
MSVOA_L
ClientSampleId :
C0P14

Quant Time: Oct 14 02:14:30 2021
Quant Method : Z:\VOASRV\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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Reviewed By :Semsettin Yesilyurt 10/14/2021
Supervised By :Mahesh Dadoda 10/15/2021





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: COP14

Acq: 12 Oct 2021 21:52

Tot Ion:

Ion Ratio

49 100

128 52.

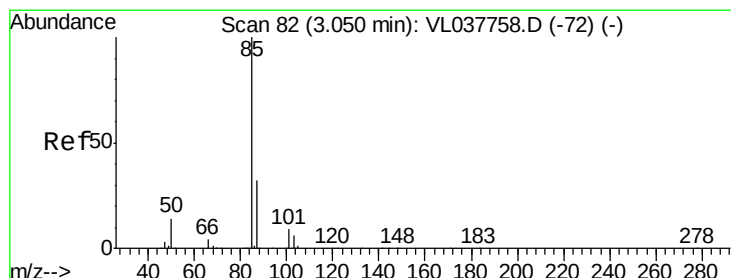
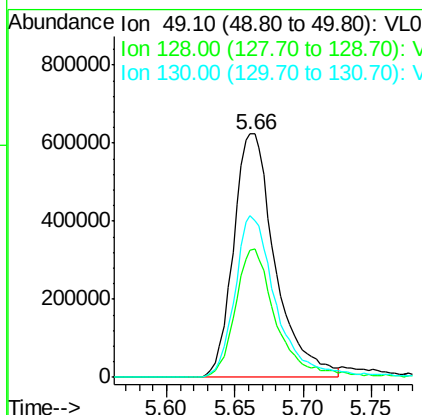
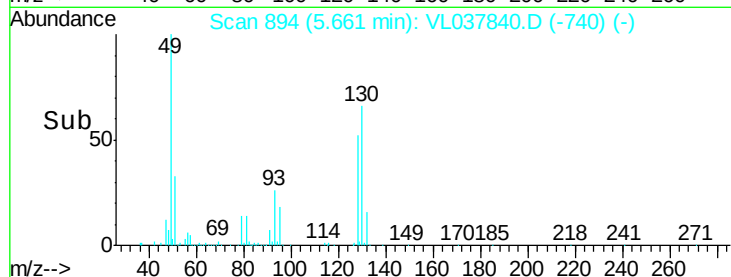
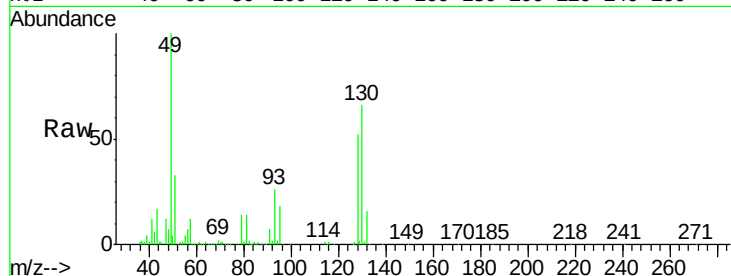
130 66.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/14/2021

Supervised By :Mahesh Dadoda 10/15/2021



#2

Dichlorodifluoromethane

Concen: 0.188 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL037840.D

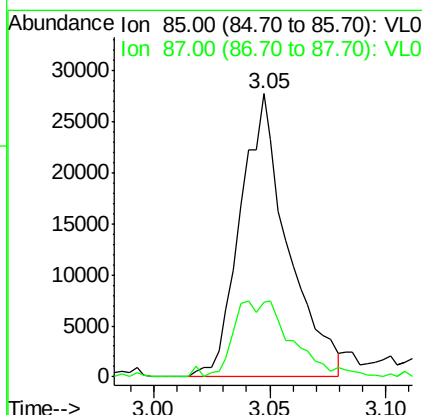
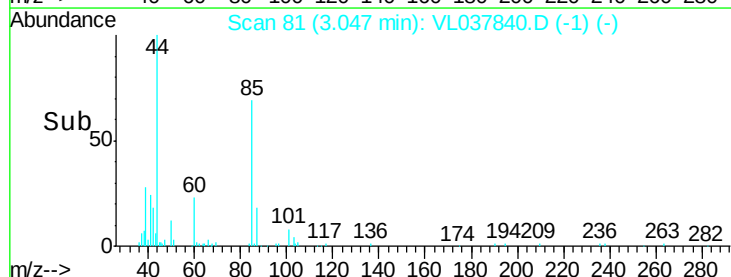
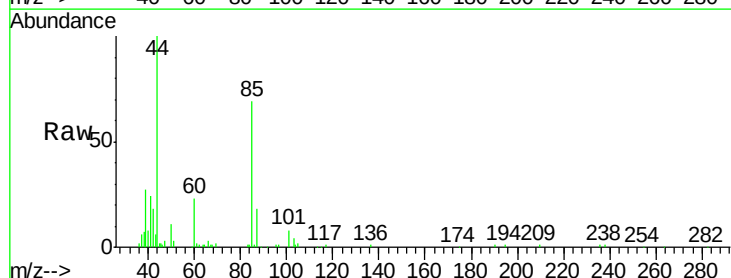
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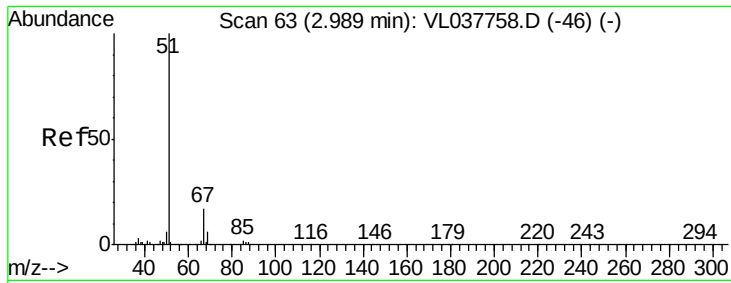
Tgt Ion: 85 Resp: 39617

Ion Ratio Lower Upper

85 100

87 26.3 25.7 38.5





#3

Chlorodifluoromethane

Concen: 0.148 ppbv m

RT: 2.98 Instrument: MSVOA_L

Delta R.T. ClientSampleId:

Lab File: COP14

Acq: 12 Oct 2021 21:52

Tot Ion:

Ion Ratio

51 100

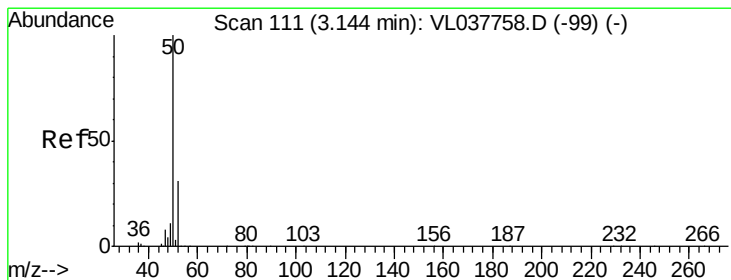
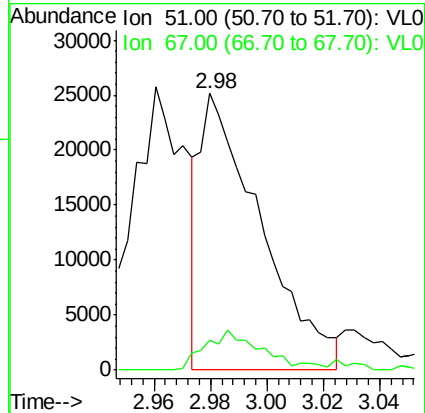
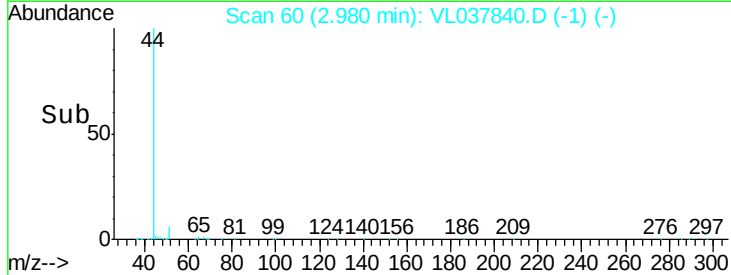
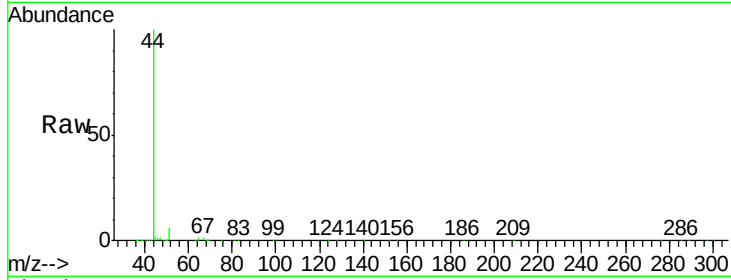
67 15.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/14/2021

Supervised By :Mahesh Dadoda 10/15/2021



#4

Chloromethane

Concen: 0.403 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL037840.D

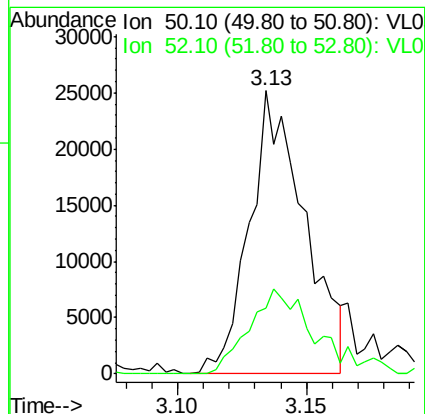
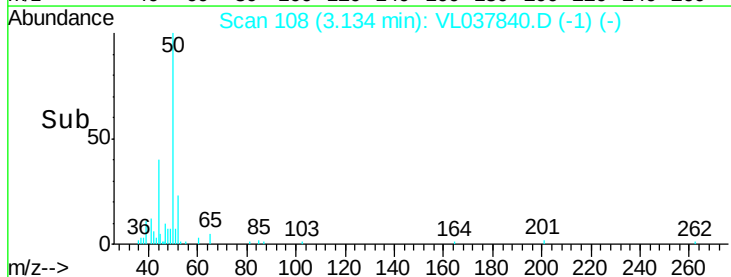
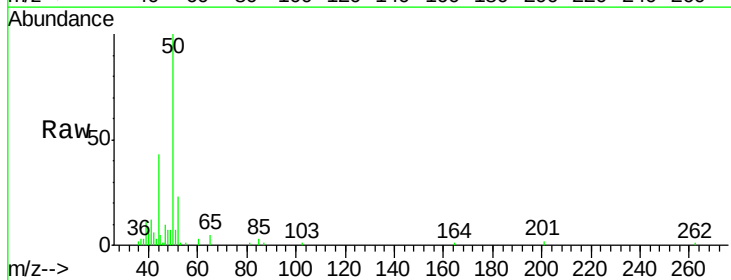
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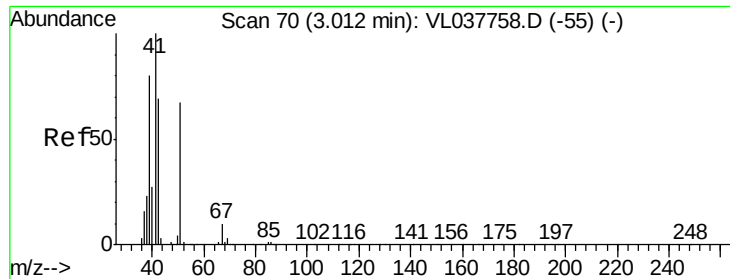
Tgt Ion: 50 Resp: 37508

Ion Ratio Lower Upper

50 100

52 23.4 24.4 36.6#



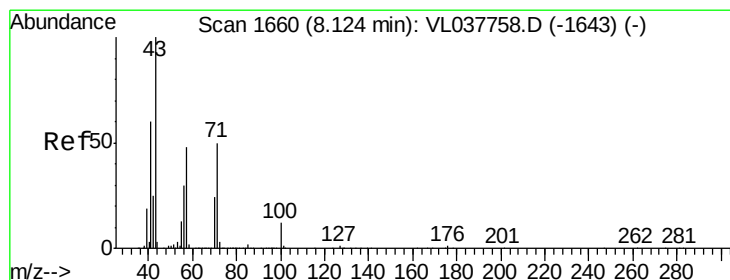
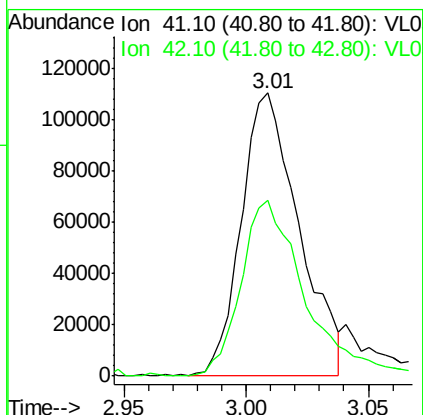
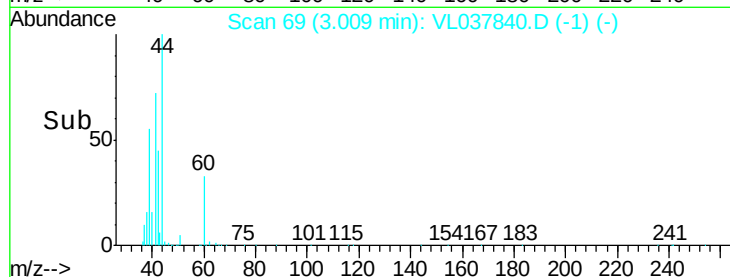
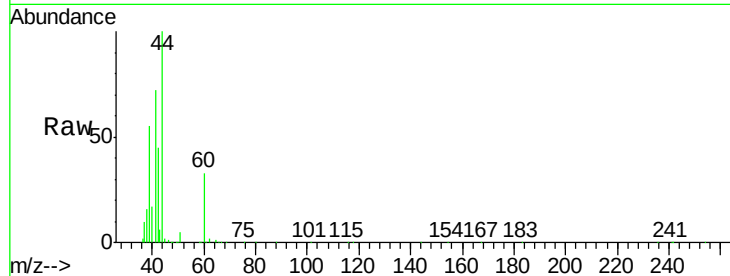


#9
 Propene
 Concen: 1.932 ppbv
 RT: 3.01
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 12 Oct 2021 21:52

Tot Ion:
 Ion Ratio
 41 100
 42 71.

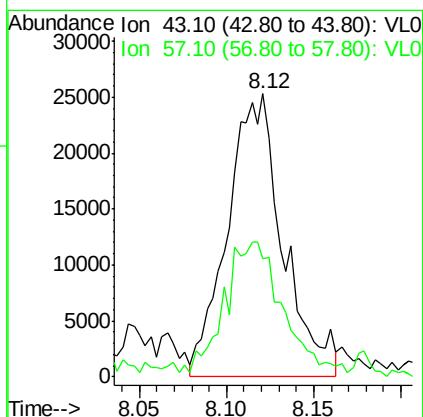
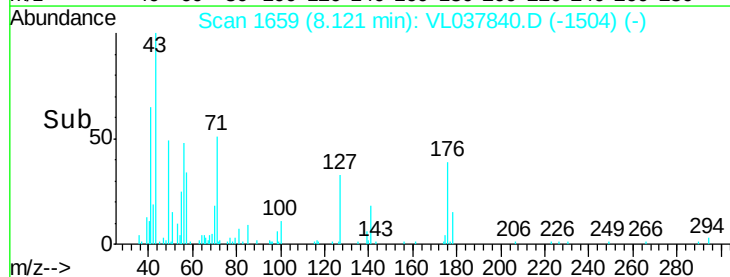
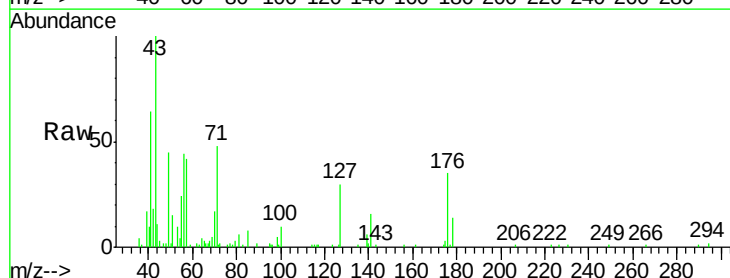
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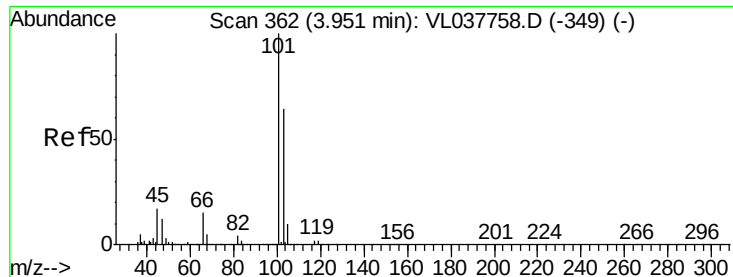
Reviewed By :Semsettin Yesilyurt 10/14/2021
 Supervised By :Mahesh Dadoda 10/15/2021



#10
 Heptane
 Concen: 0.263 ppbv m
 RT: 8.12 min Scan# 1659
 Delta R.T. -0.00 min
 Lab File: VL037840.D
 Acq: 12 Oct 2021 21:52

Tgt Ion: 43 Resp: 55749
 Ion Ratio Lower Upper
 43 100
 57 52.6 40.0 60.0



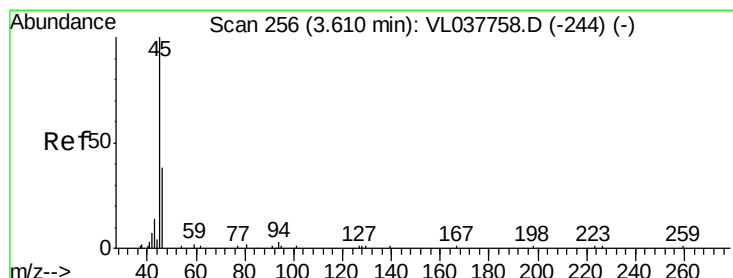
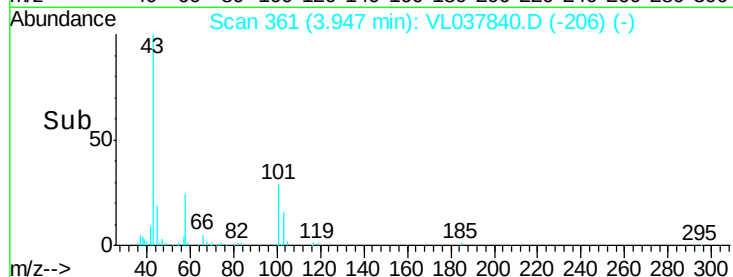
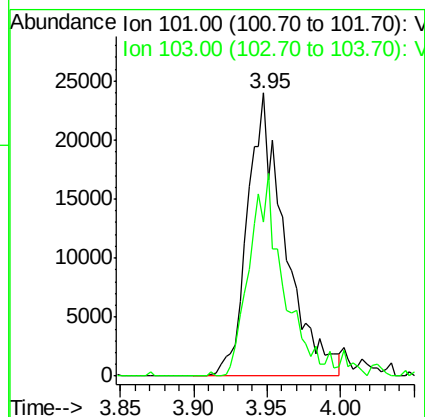
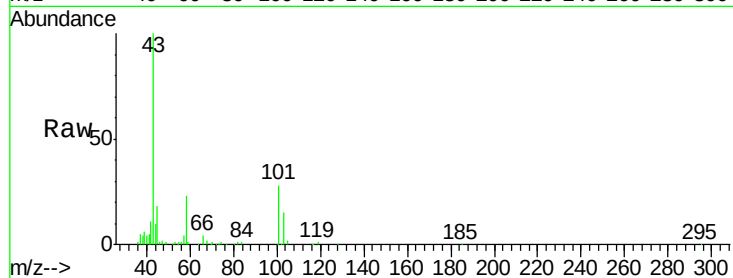


#11
 Trichlorofluoromethane
 Concen: 0.225 ppbv m
 RT: 3.95
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 12 Oct 2021 21:52

Tot Ion:1
 Ion Rati
 101 100
 103 54.

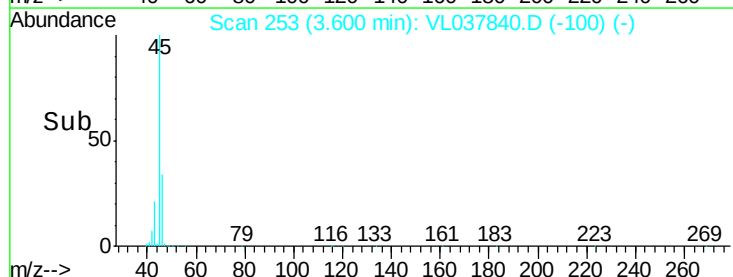
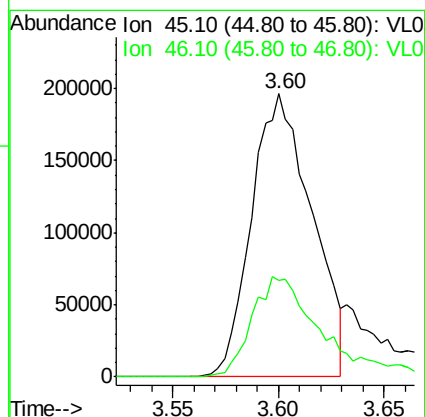
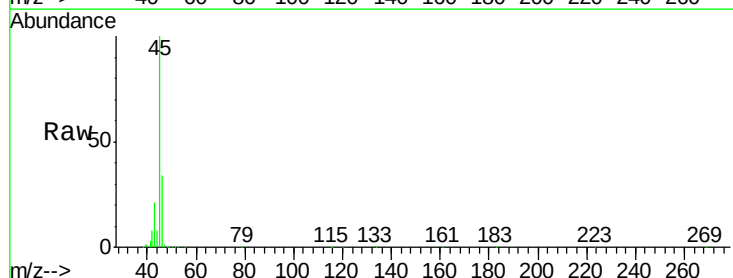
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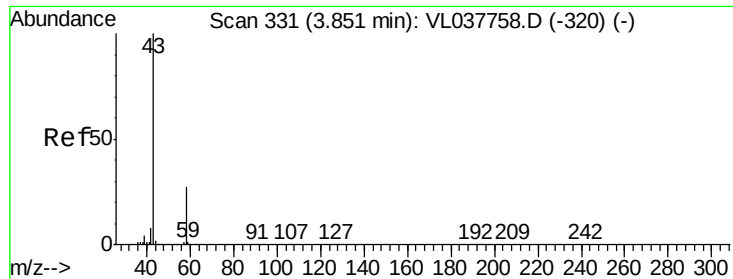
Reviewed By :Semsettin Yesilyurt 10/14/2021
 Supervised By :Mahesh Dadoda 10/15/2021



#13
 Ethanol
 Concen: 50.972 ppbv
 RT: 3.60 min Scan# 253
 Delta R.T. -0.01 min
 Lab File: VL037840.D
 Acq: 12 Oct 2021 21:52

Tgt Ion: 45 Resp: 389775
 Ion Ratio Lower Upper
 45 100
 46 41.6 20.2 81.0



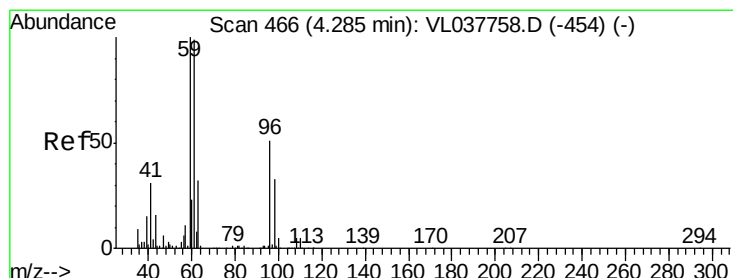
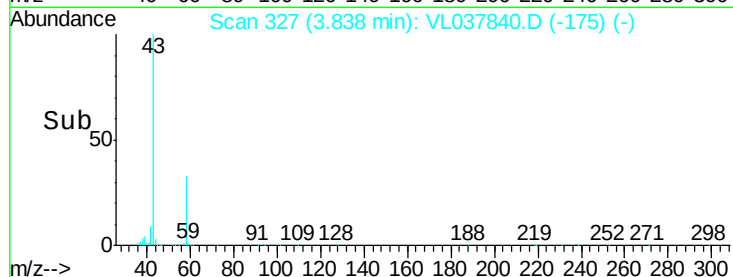
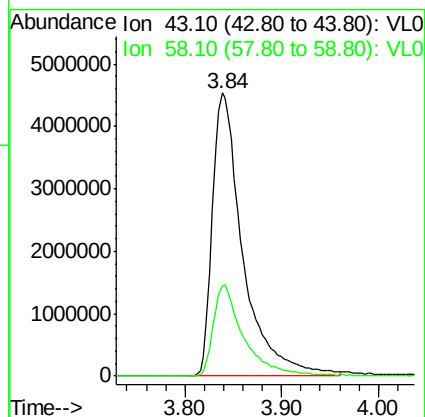
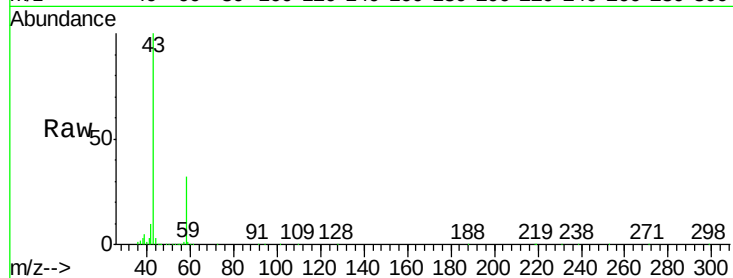


#15
Acetone
Concen: 83.879 ppbv
RT: 3.84
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 12 Oct 2021 21:52

Tot Ion:
Ion Ratio
43 100
58 32.

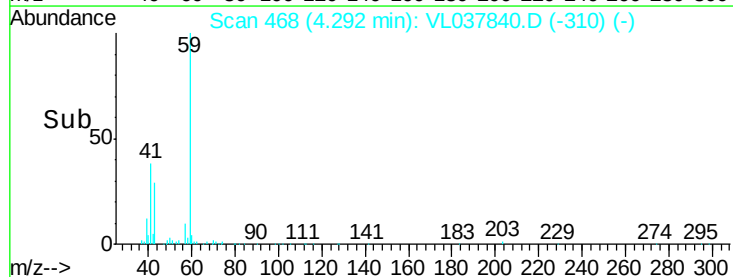
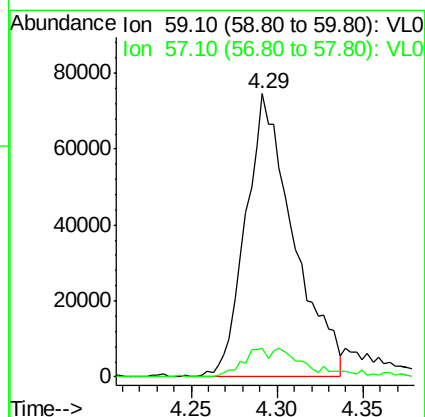
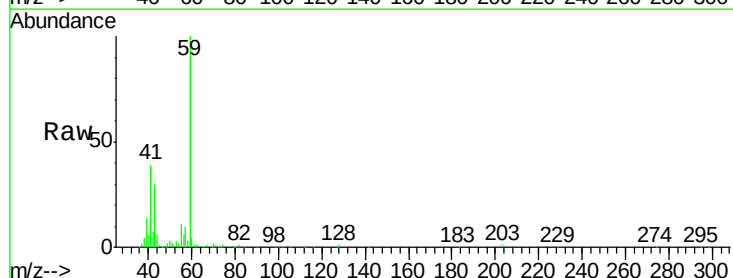
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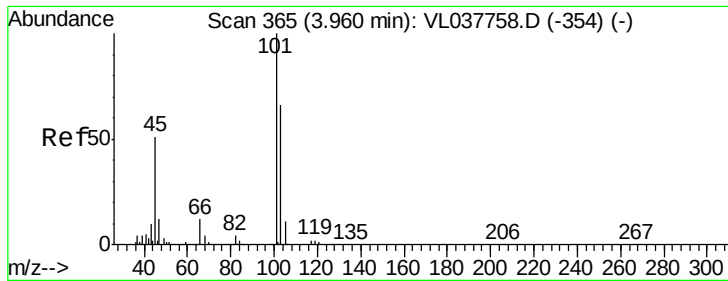
Reviewed By :Semsettin Yesilyurt 10/14/2021
Supervised By :Mahesh Dadoda 10/15/2021



#17
tert-Butyl alcohol
Concen: 1.177 ppbv
RT: 4.29 min Scan# 468
Delta R.T. 0.01 min
Lab File: VL037840.D
Acq: 12 Oct 2021 21:52

Tgt Ion: 59 Resp: 143925
Ion Ratio Lower Upper
59 100
57 13.5 8.6 13.0#





#19

Isopropyl Alcohol

Concen: 1.630 ppbv m

RT: 3.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 12 Oct 2021 21:52 COP14

Tot Ion:

Ion Ratio

45 100

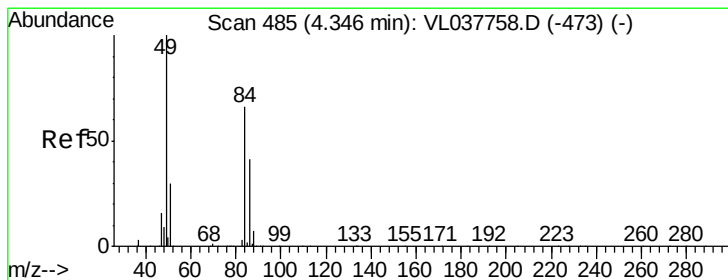
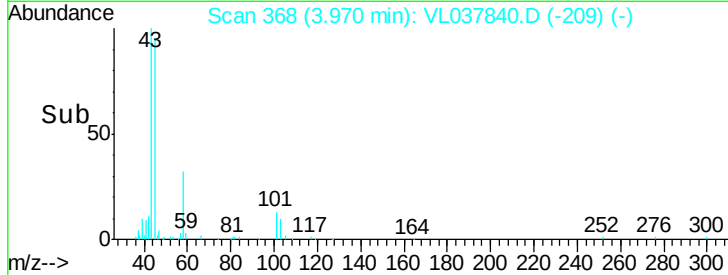
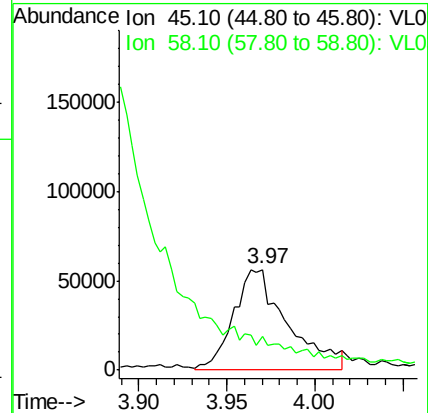
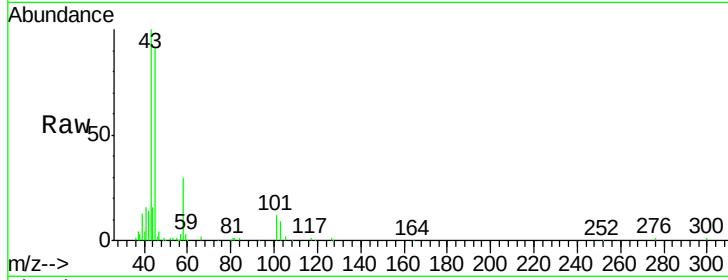
58 0.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/14/2021

Supervised By :Mahesh Dadoda 10/15/2021



#20

Methylene Chloride

Concen: 12.894 ppbv

RT: 4.34 min Scan# 484

Delta R.T. -0.00 min

Lab File: VL037840.D

Acq: 12 Oct 2021 21:52

Tgt Ion: 84 Resp: 773498

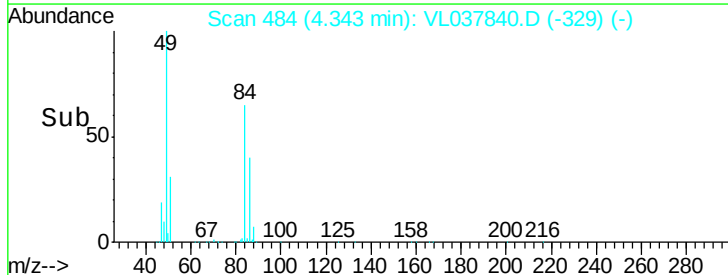
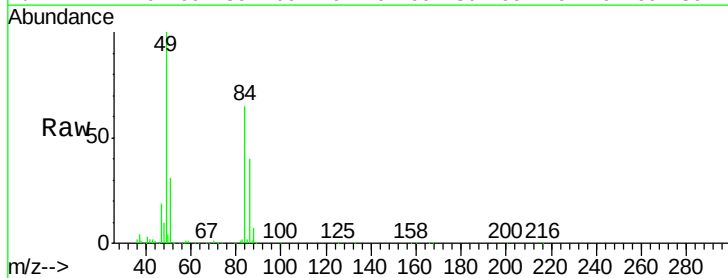
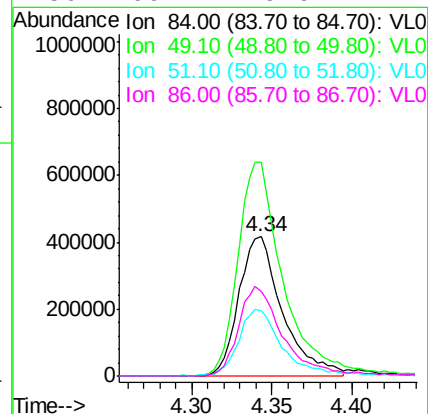
Ion Ratio Lower Upper

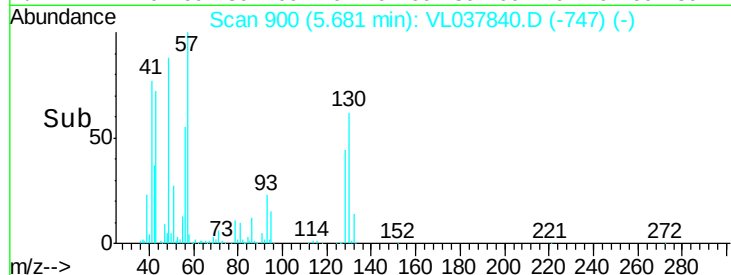
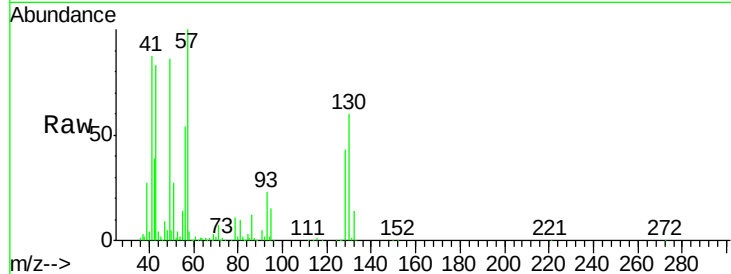
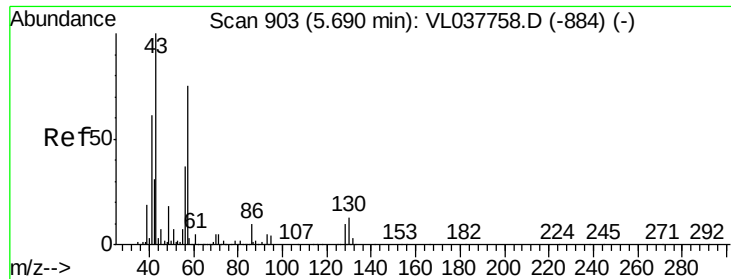
84 100

49 153.1 120.7 181.1

51 46.9 36.2 54.4

86 60.7 49.6 74.4



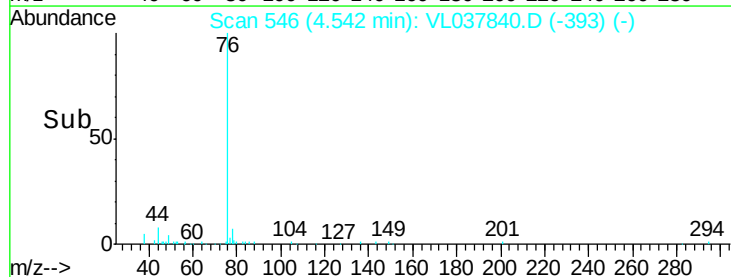
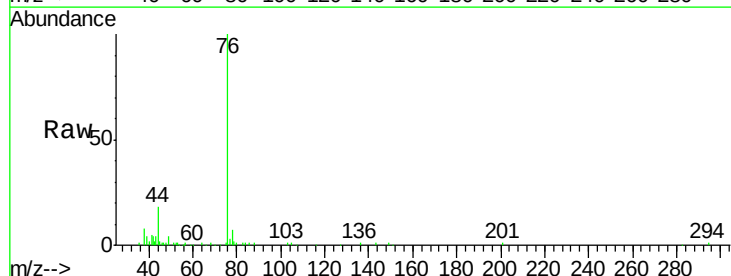
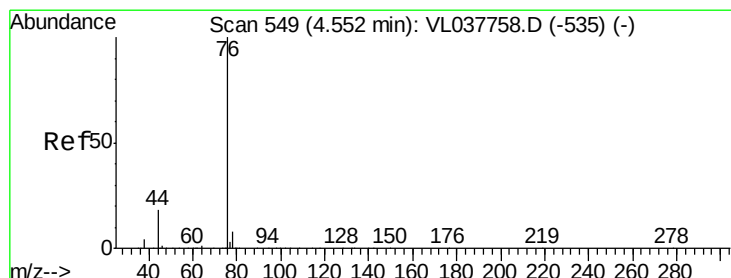
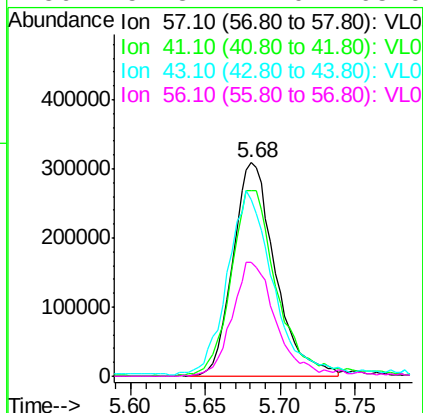


#26
Hexane
Concen: 3.705 ppbv
RT: 5.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 12 Oct 2021 21:52

Tot Ion: 57.10 (56.80 to 57.80): VL0
Ion Ratio: 57 100
41 96.
43 92.
56 57.3 42.0 63.0

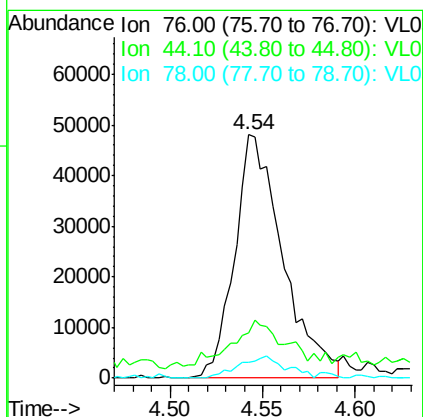
Manual Integrations
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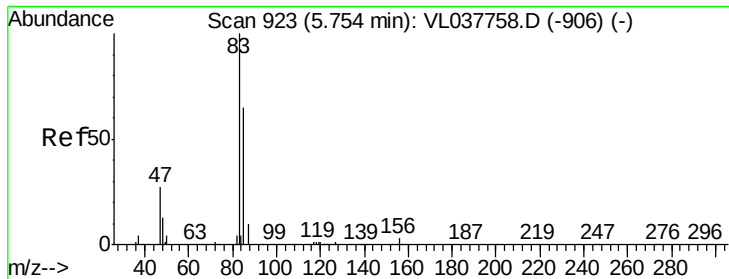
Reviewed By :Semsettin Yesilyurt 10/14/2021
Supervised By :Mahesh Dadoda 10/15/2021



#27
Carbon Disulfide
Concen: 0.597 ppbv
RT: 4.54 min Scan# 546
Delta R.T. -0.01 min
Lab File: VL037840.D
Acq: 12 Oct 2021 21:52

Tgt Ion: 76 Resp: 86797
Ion Ratio Lower Upper
76 100
44 20.3 14.3 21.5
78 10.0 7.8 11.6



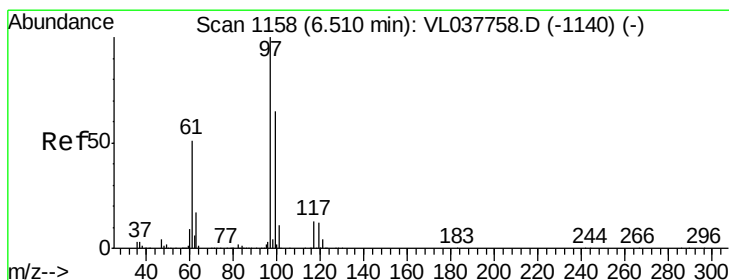
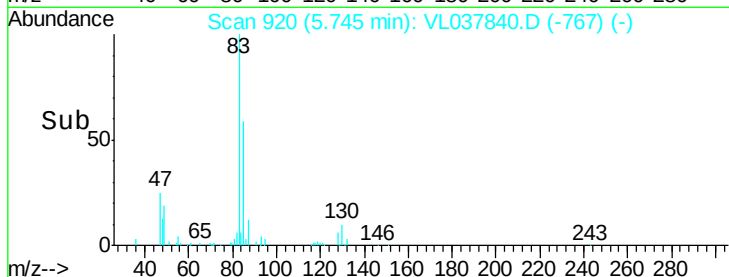
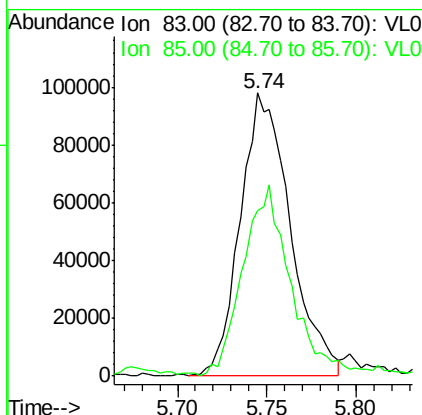
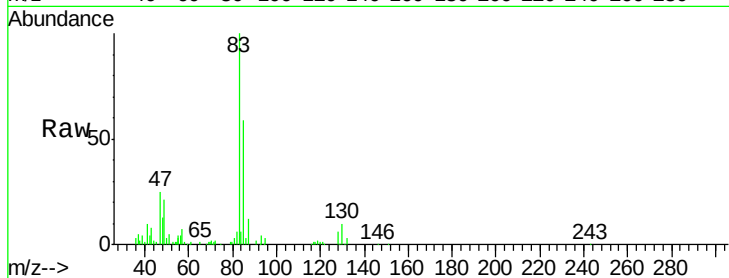


#29
Chloroform
Concen: 0.819 ppbv
RT: 5.74
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 12 Oct 2021 21:52

Tot Ion:
Ion Ratio
83 100
85 57.

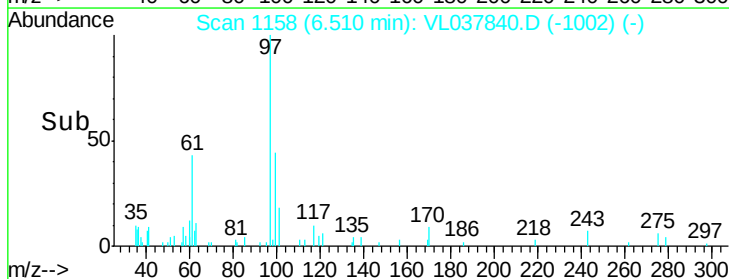
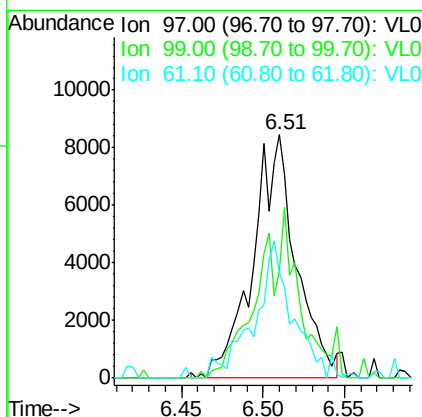
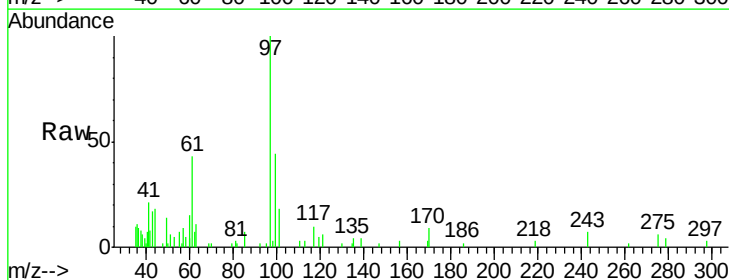
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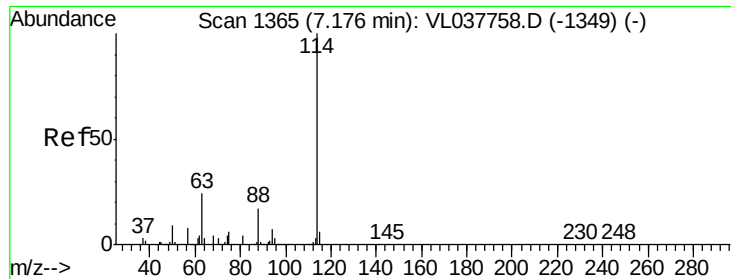
Reviewed By :Semsettin Yesilyurt 10/14/2021
Supervised By :Mahesh Dadoda 10/15/2021



#32
1,1,1-Trichloroethane
Concen: 0.071 ppbv m
RT: 6.51 min Scan# 1158
Delta R.T. 0.00 min
Lab File: VL037840.D
Acq: 12 Oct 2021 21:52

Tgt Ion: 97 Resp: 15712
Ion Ratio Lower Upper
97 100
99 0.0 52.6 78.8#
61 0.0 40.2 60.4#



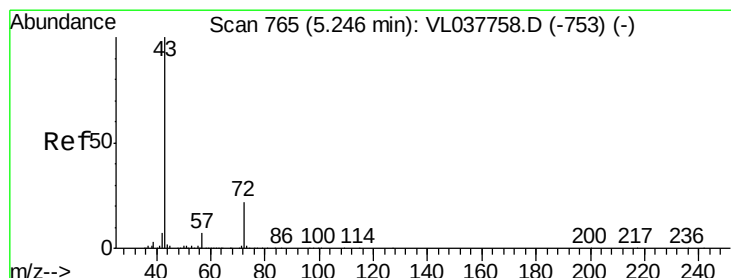
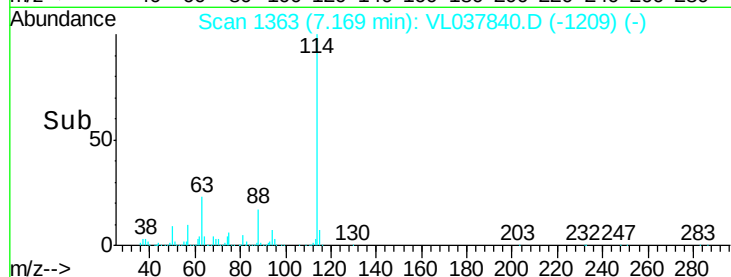
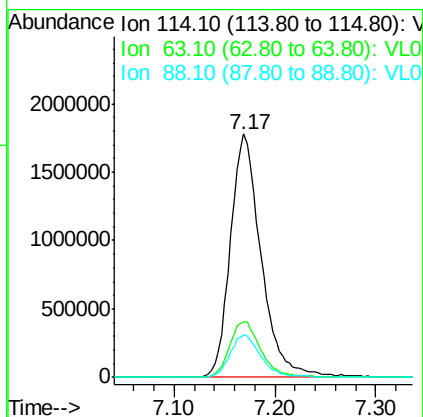
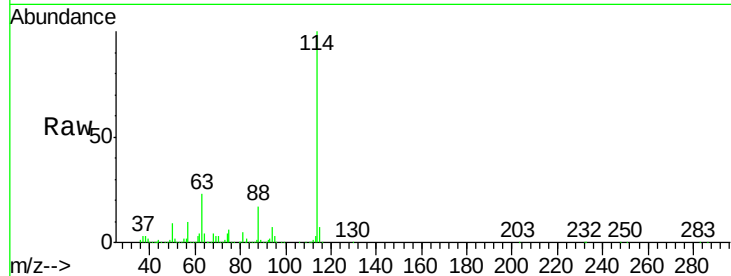


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 12 Oct 2021 21:52

Tot Ion:1
 Ion Rati
 114 100
 63 23.
 88 17.

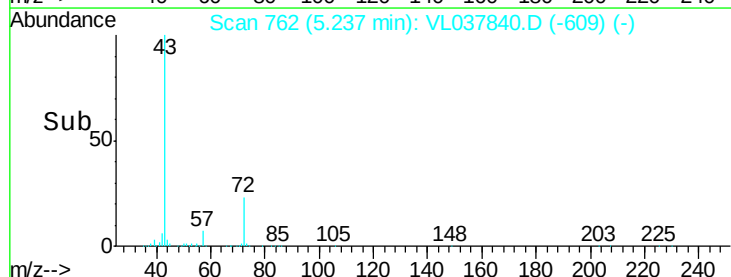
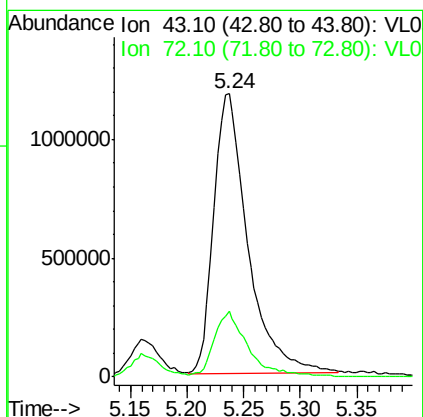
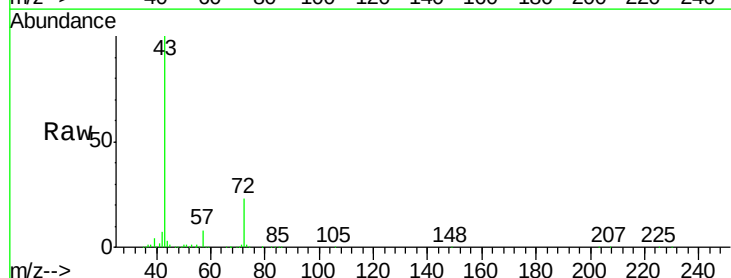
Manual Integrations
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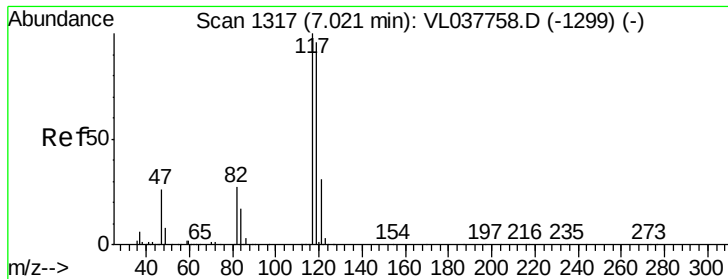
Reviewed By :Semsettin Yesilyurt 10/14/2021
 Supervised By :Mahesh Dadoda 10/15/2021



#34
 2-Butanone
 Concen: 16.291 ppbv
 RT: 5.24 min Scan# 762
 Delta R.T. -0.01 min
 Lab File: VL037840.D
 Acq: 12 Oct 2021 21:52

Tgt Ion: 43 Resp: 2481897
 Ion Ratio Lower Upper
 43 100
 72 23.6 18.2 27.2





#35

Carbon Tetrachloride

Concen: 0.030 ppbv m

RT: 7.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 12 Oct 2021 21:52 COP14

Tot Ion:1

Ion Rati

117 100

119 151.

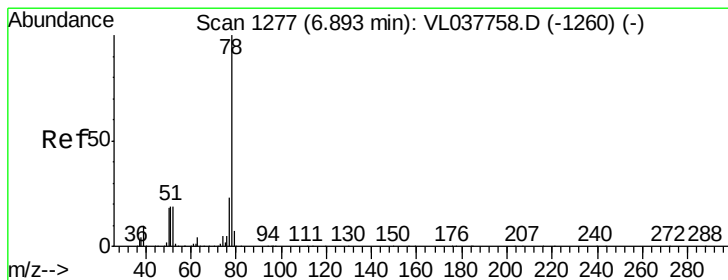
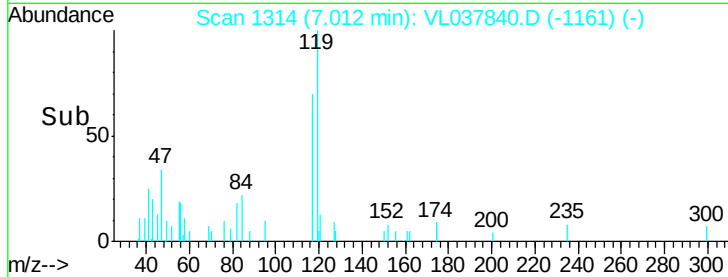
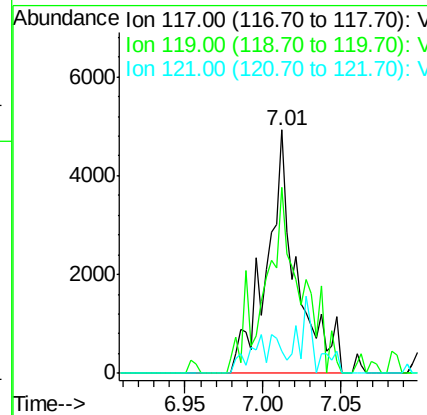
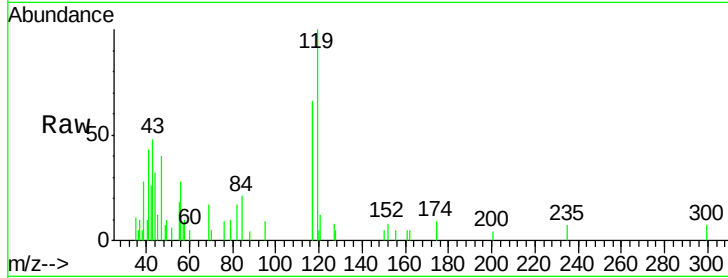
121 18.

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Reviewed By :Semsettin Yesilyurt 10/14/2021

Supervised By :Mahesh Dadoda 10/15/2021



#36

Benzene

Concen: 0.189 ppbv m

RT: 6.88 min Scan# 1273

Delta R.T. -0.01 min

Lab File: VL037840.D

Acq: 12 Oct 2021 21:52

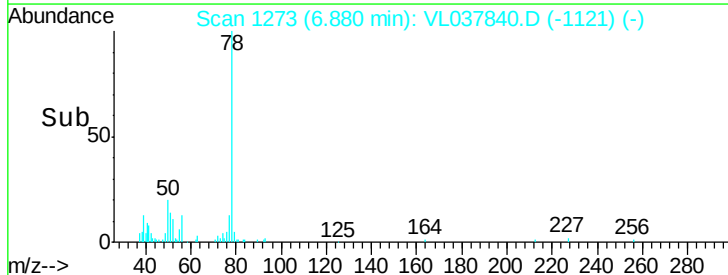
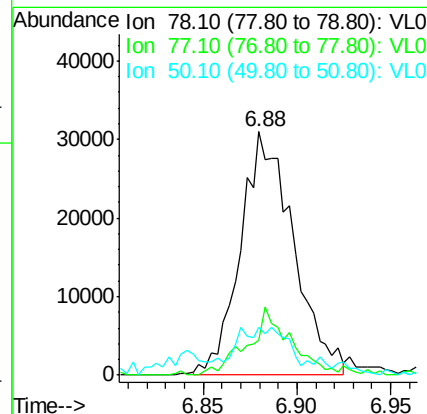
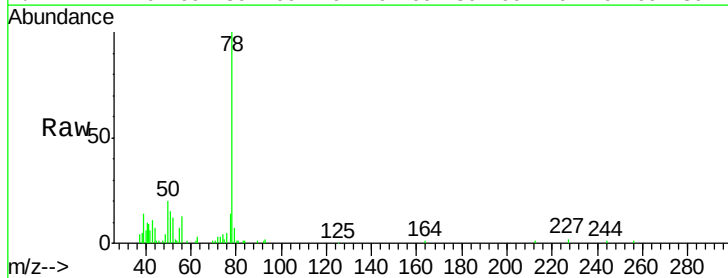
Tgt Ion: 78 Resp: 60811

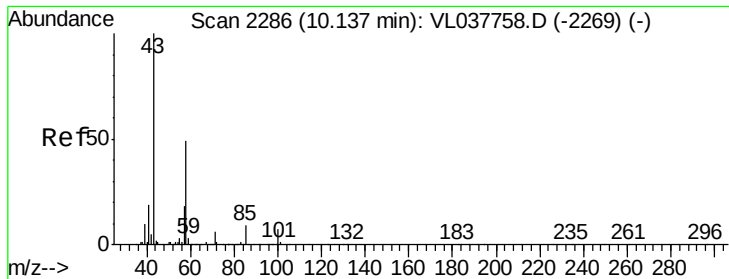
Ion Ratio Lower Upper

78 100

77 14.3 18.8 28.2#

50 19.6 14.7 22.1



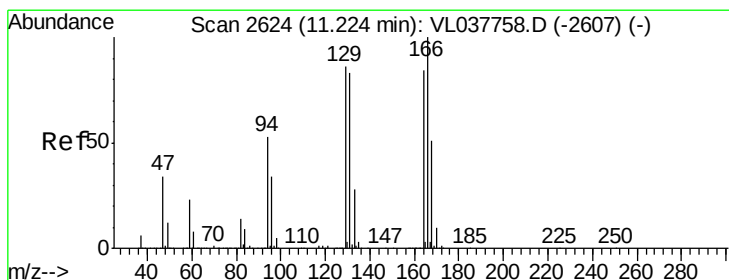
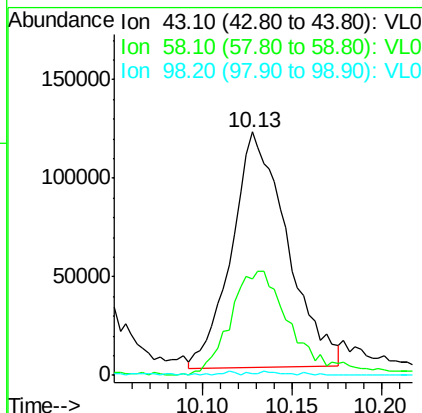
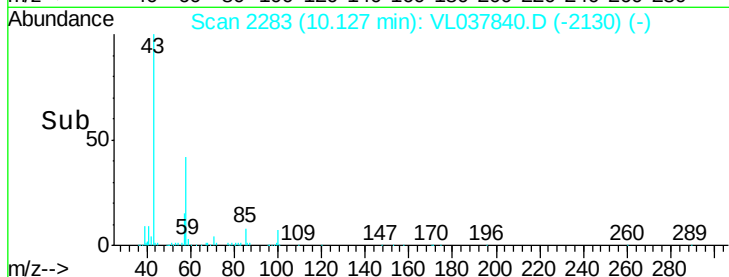
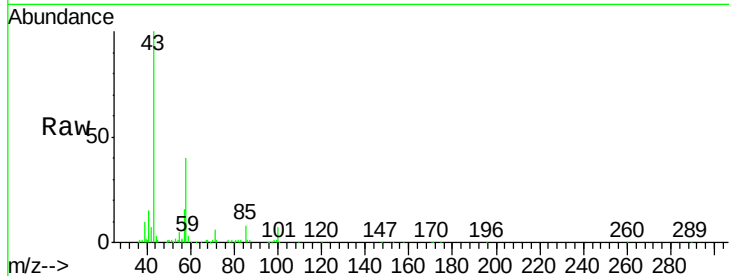


#51
2-Hexanone
Concen: 2.943 ppbv
RT: 10.13 min
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 12 Oct 2021 21:52

Tot Ion:
Ion Ratio
43 100
58 49.
98 1.

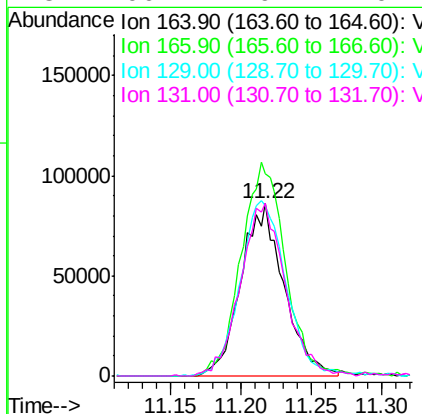
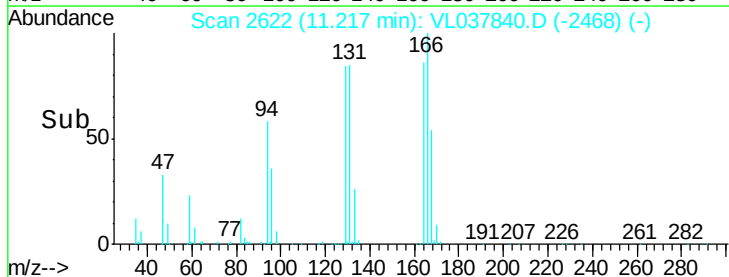
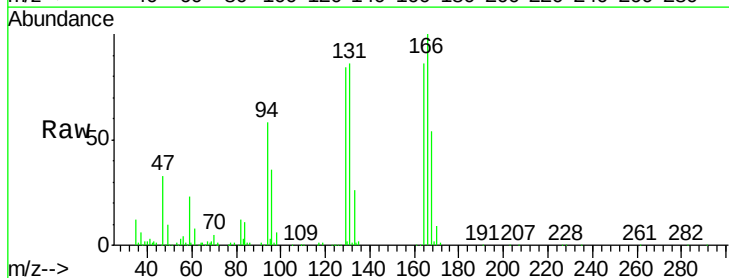
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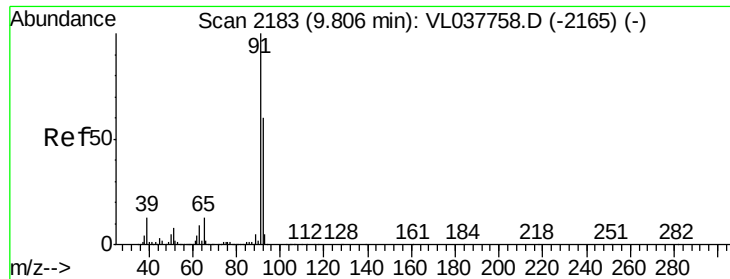
Reviewed By :Semsettin Yesilyurt 10/14/2021
Supervised By :Mahesh Dadoda 10/15/2021



#52
Tetrachloroethene
Concen: 1.463 ppbv
RT: 11.22 min Scan# 2622
Delta R.T.: -0.01 min
Lab File: VL037840.D
Acq: 12 Oct 2021 21:52

Tgt Ion:164 Resp: 183518
Ion Ratio Lower Upper
164 100
166 116.9 95.4 143.2
129 98.0 82.2 123.4
131 100.4 79.4 119.2





#53

Toluene

Concen: 0.409 ppbv

RT: 9.80 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 12 Oct 2021 21:52 COP14

Tot Ion:

Ion Ratio

91 100

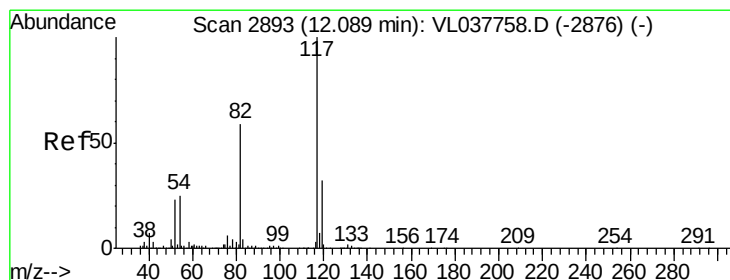
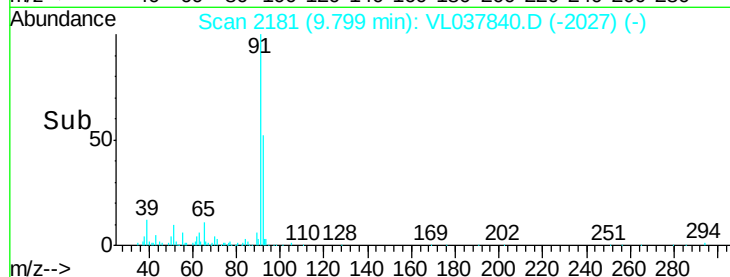
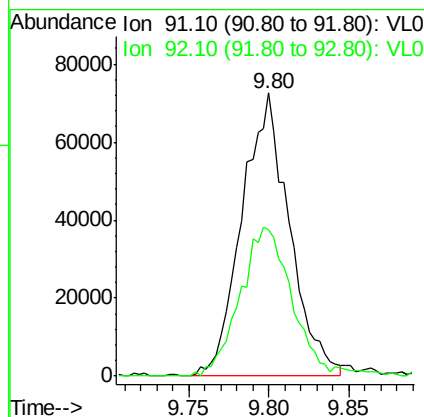
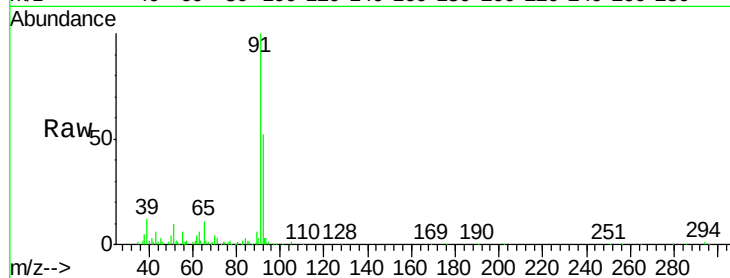
92 59.

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Reviewed By :Semsettin Yesilyurt 10/14/2021

Supervised By :Mahesh Dadoda 10/15/2021



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2889

Delta R.T. -0.01 min

Lab File: VL037840.D

Acq: 12 Oct 2021 21:52

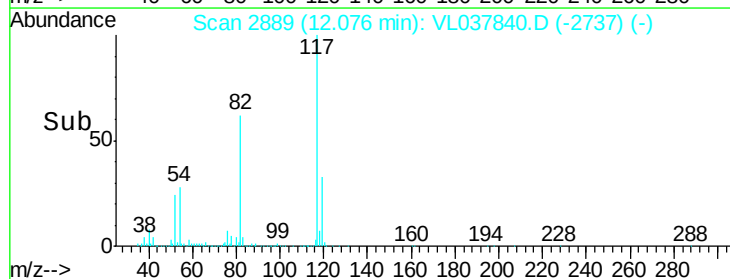
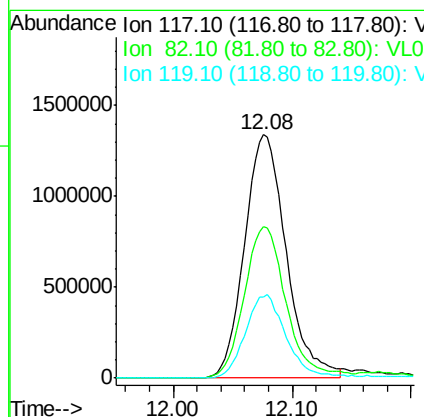
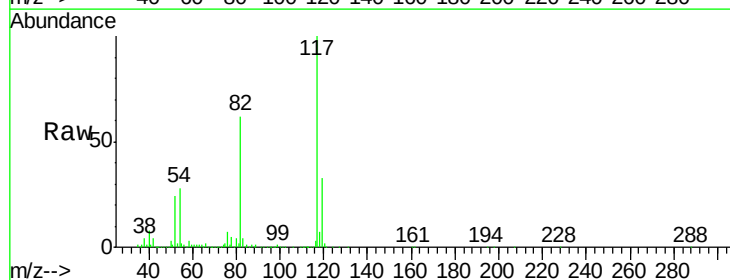
Tgt Ion:117 Resp: 3249559

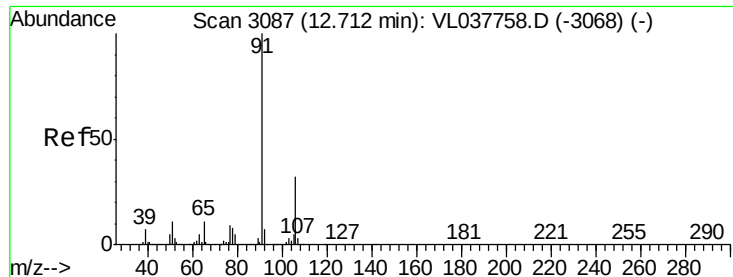
Ion Ratio Lower Upper

117 100

82 62.9 52.2 78.2

119 34.8 26.0 39.0



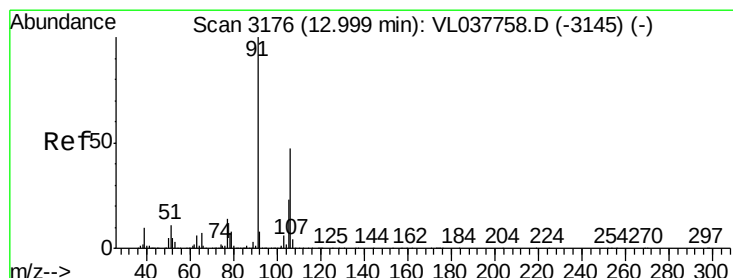
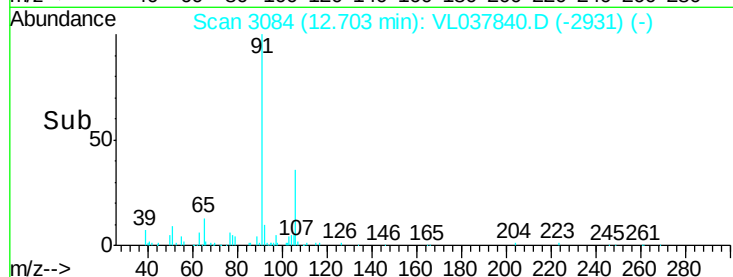
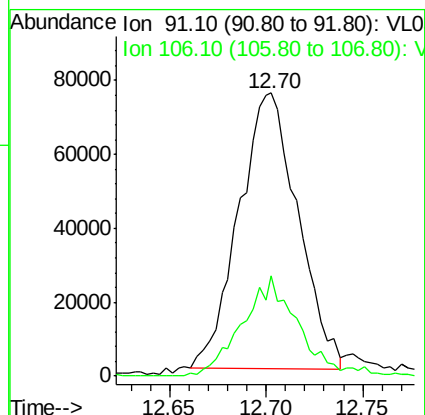
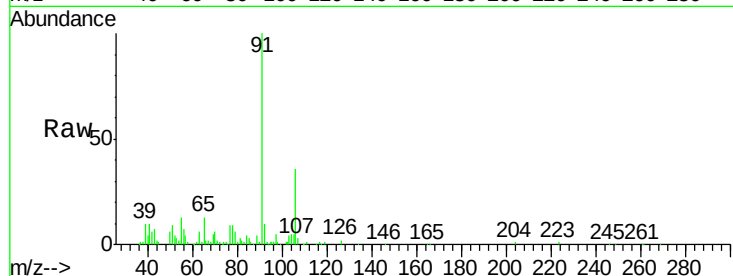


#58
Ethyl Benzene
Concen: 0.364 ppbv
RT: 12.70 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
COP14
Acq: 12 Oct 2021 21:52

Tot Ion:
Ion Ratio
91 100
106 35.

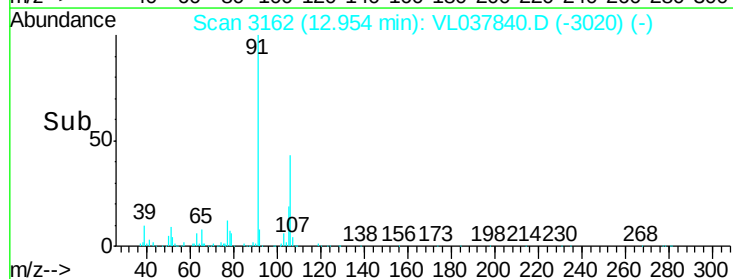
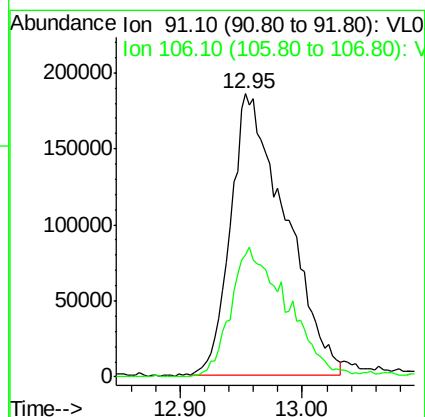
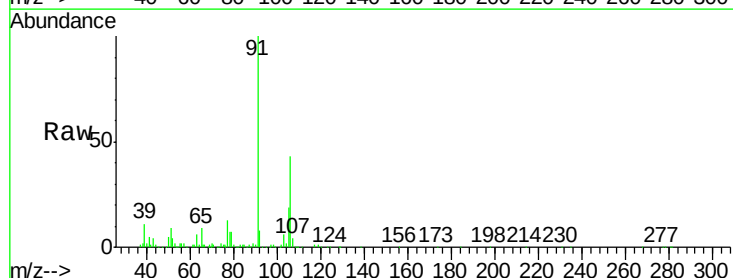
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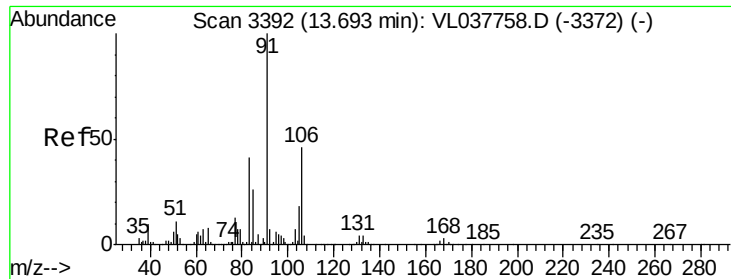
Reviewed By :Semsettin Yesilyurt 10/14/2021
Supervised By :Mahesh Dadoda 10/15/2021



#59
m/p-Xylene
Concen: 1.539 ppbv
RT: 12.95 min Scan# 3162
Delta R.T. -0.04 min
Lab File: VL037840.D
Acq: 12 Oct 2021 21:52

Tgt Ion: 91 Resp: 576367
Ion Ratio Lower Upper
91 100
106 48.5 36.7 55.1



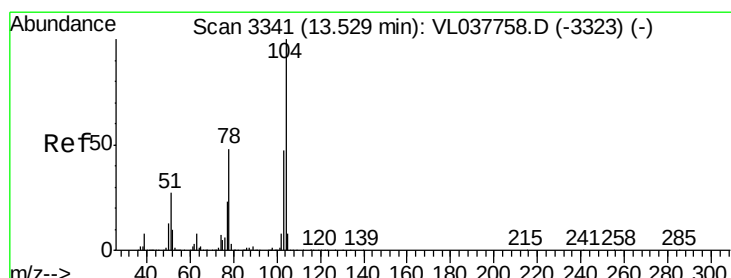
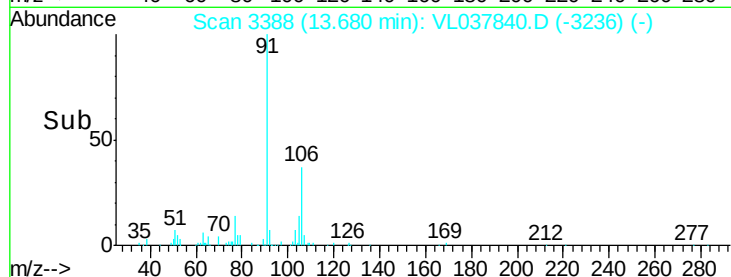
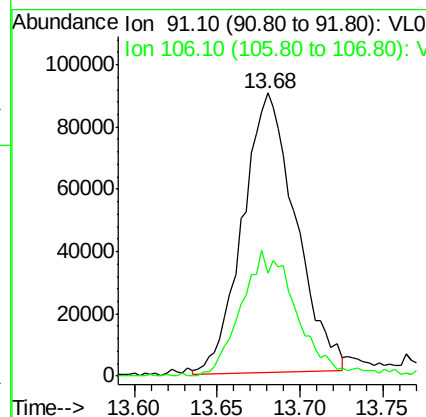
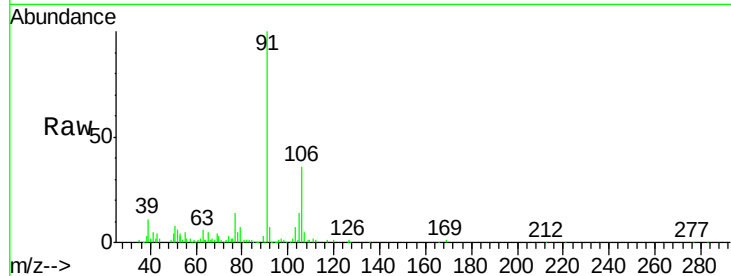


#60
o-Xylene
Concen: 0.559 ppbv
RT: 13.68
Delta R.T. MSVOA_L
Lab File: ClientSampled :
Acq: 12 Oct 2021 21:52

Tot Ion:
Ion Ratio
91 100
106 46.

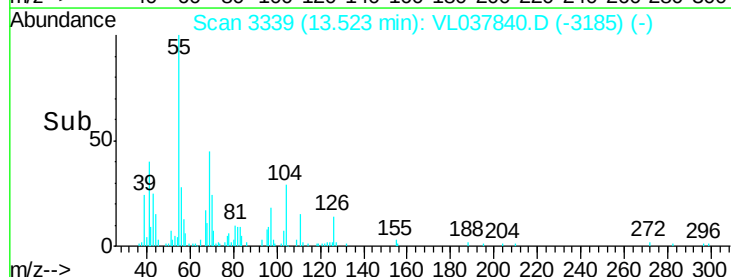
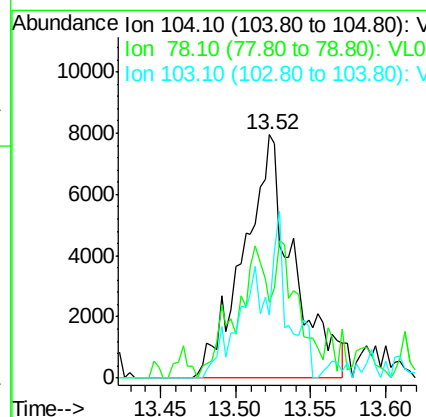
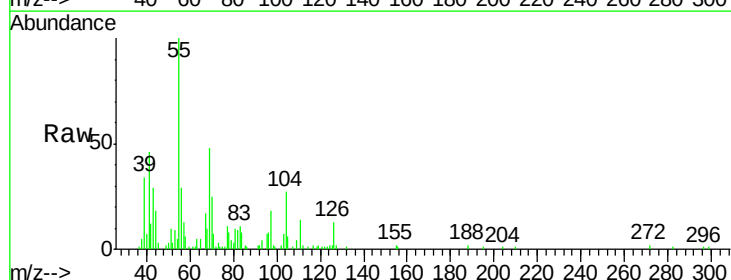
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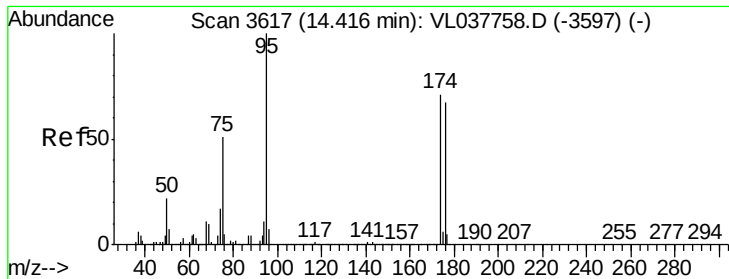
Reviewed By :Semsettin Yesilyurt 10/14/2021
Supervised By :Mahesh Dadoda 10/15/2021



#61
Styrene
Concen: 0.105 ppbv m
RT: 13.52 min Scan# 3339
Delta R.T. -0.01 min
Lab File: VL037840.D
Acq: 12 Oct 2021 21:52

Tgt Ion:104 Resp: 18175
Ion Ratio Lower Upper
104 100
78 0.0 40.6 61.0#
103 0.0 39.6 59.4#



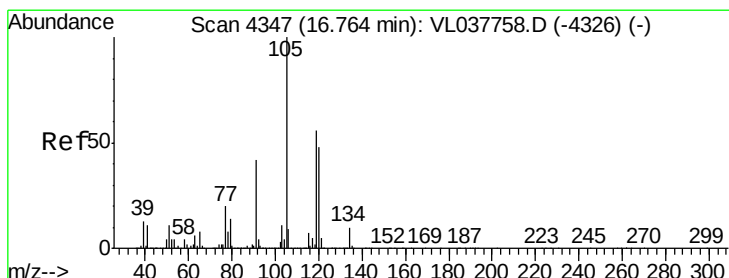
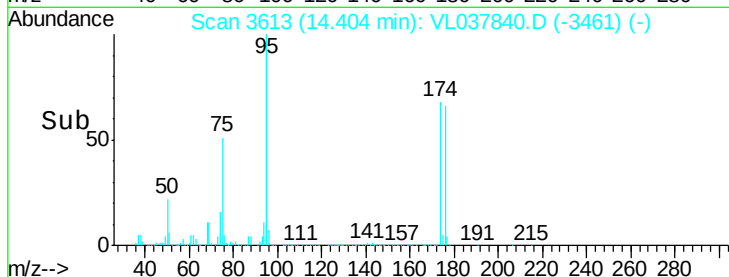
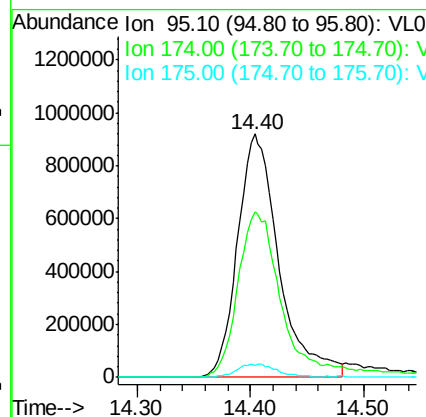
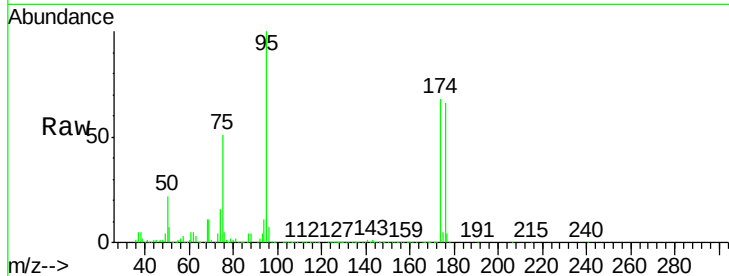


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.285 ppbv
 RT: 14.40 min
 Delta R.T.: MSVOA_L
 Lab File: ClientSampleId : COP14
 Acq: 12 Oct 2021 21:52

Tot Ion:
 Ion Ratio
 95 100
 174 75.1
 175 5.1

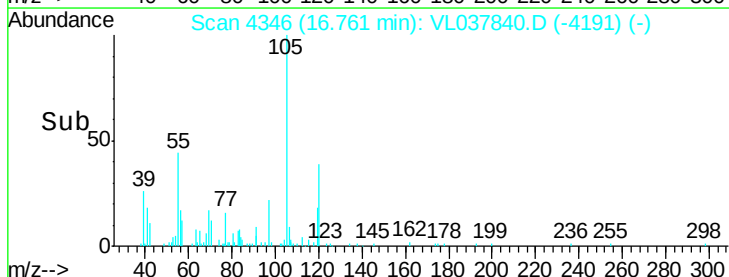
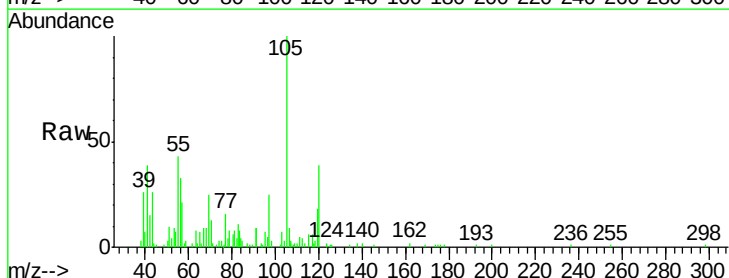
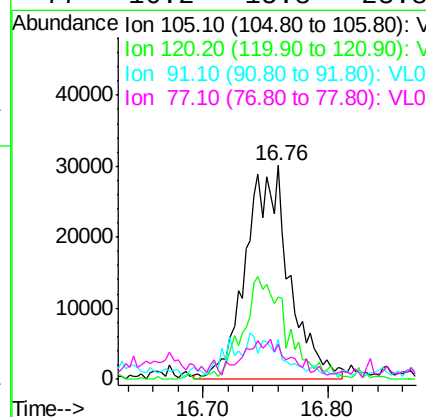
Manual Integrations
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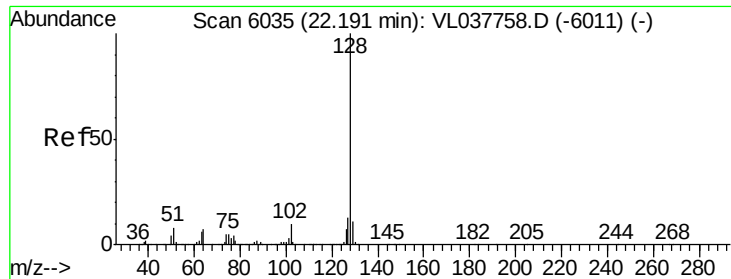
Reviewed By :Semsettin Yesilyurt 10/14/2021
 Supervised By :Mahesh Dadoda 10/15/2021



#74
 1,2,4-Trimethylbenzene
 Concen: 0.187 ppbv m
 RT: 16.76 min Scan# 4346
 Delta R.T.: -0.00 min
 Lab File: VL037840.D
 Acq: 12 Oct 2021 21:52

Tgt Ion:105 Resp: 72667
 Ion Ratio Lower Upper
 105 100
 120 38.7 38.4 57.6
 91 9.3 34.2 51.2#
 77 16.2 15.8 23.8





#79

Naphthalene

Concen: 0.171 ppbv m

RT: 22.18

Delta R.T MSVOA_L

Lab File: ClientSampleId :

Acq: 12 Oct 2021 21:52

Tot Ion:1

Ion Rati

128 100

127 9.

129 6.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/14/2021

Supervised By :Mahesh Dadoda 10/15/2021

