

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL092821\
 Data File : VL037725.D
 Acq On : 29 Sep 2021 9:46
 Operator : SY/AP
 Sample : M3896-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENT

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 10/01/2021
 Supervised By : Mahesh Dadoda 10/01/2021

Supervised By
 : MMDadoda

Quant Time: Sep 30 21:10:24 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091621A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Thu Sep 16 13:42:46 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1285790	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.17	114	3852989	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.08	117	3372670	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.41 95 2458523 10.09 ppbv 0.01
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.90%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
4) Chloromethane	3.14	50	14464m	0.161	ppbv	
9) Propene	3.02	41	61983	0.725	ppbv	87
10) Heptane	8.12	43	75547m	0.378	ppbv	
11) Trichlorofluoromethane	3.95	101	35004	0.187	ppbv	90
12) 1,1,2-Trichlorotrifluoroet	4.48	101	21925m	0.159	ppbv	
13) Ethanol	3.60	45	844067m	100.868	ppbv	
15) Acetone	3.85	43	2321719	17.379	ppbv	97
18) 1,1-Dichloroethene	4.29	96	59390	0.925	ppbv #	93
19) Isopropyl Alcohol	3.97	45	539978	7.429	ppbv #	1
20) Methylene Chloride	4.35	84	1761883	27.625	ppbv	97
24) 1,1-Dichloroethane	5.01	63	312679	2.361	ppbv #	96
26) Hexane	5.68	57	2343310	15.246	ppbv #	45
32) 1,1,1-Trichloroethane	6.51	97	222560m	1.065	ppbv	
34) 2-Butanone	5.25	43	439137	2.805	ppbv	92
36) Benzene	6.88	78	52772m	0.164	ppbv	
41) Tetrahydrofuran	6.06	42	134903m	1.833	ppbv	
51) 2-Hexanone	10.14	43	191757m	2.187	ppbv	
52) Tetrachloroethene	11.21	164	6817m	0.055	ppbv	
53) Toluene	9.80	91	418652	1.172	ppbv	99
58) Ethyl Benzene	12.71	91	228104m	0.509	ppbv	
59) m/p-Xylene	12.96	91	537517m	1.378	ppbv	
60) o-Xylene	13.68	91	260784	0.702	ppbv	99
61) Styrene	13.52	104	121874	0.666	ppbv #	88
62) Isopropylbenzene	14.66	105	49569m	0.096	ppbv	
73) 1,3,5-Trimethylbenzene	15.99	105	47490m	0.120	ppbv	
74) 1,2,4-Trimethylbenzene	16.75	105	137294m	0.328	ppbv	

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

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Acq On : 29 Sep 2021 9:46
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Misc : 400mL/MSVOA_L
ALS Vial : 5 Sample Multiplier: 1

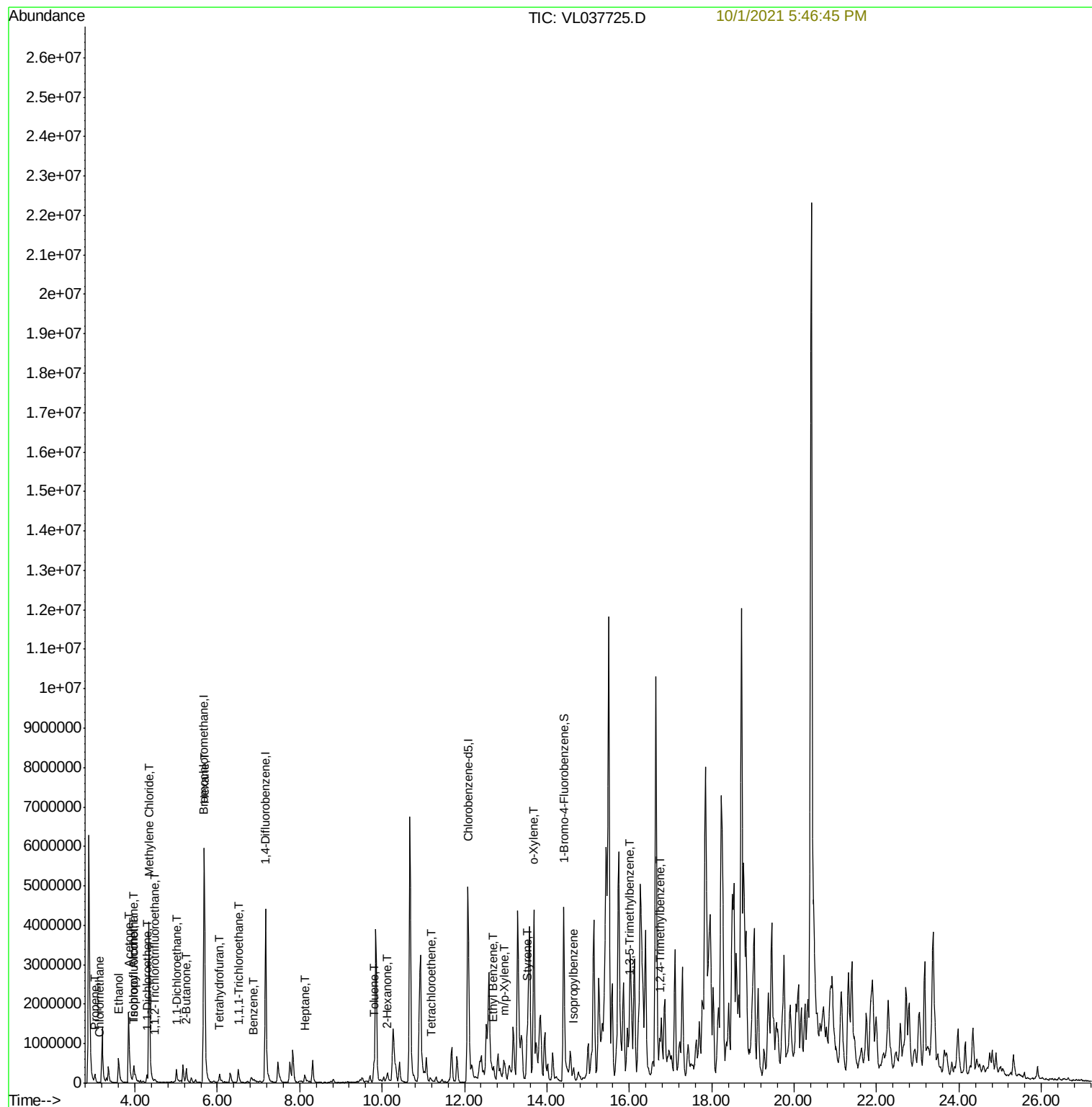
Instrument :
MSVOA_L
ClientSampleId :
EFFLUENT

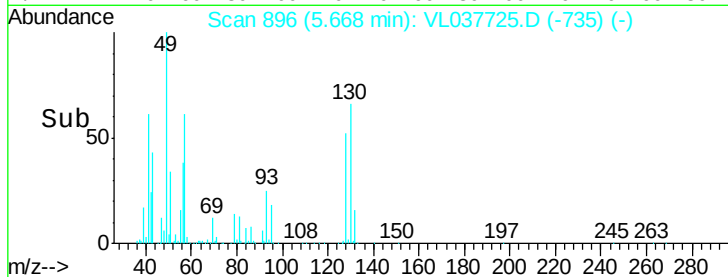
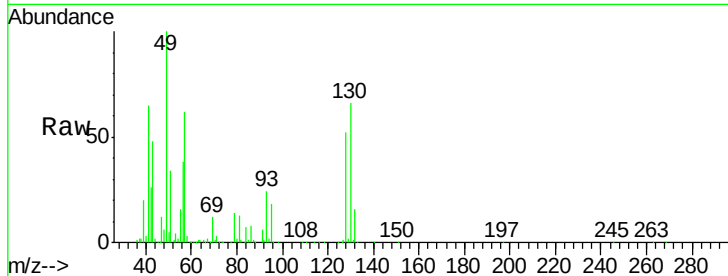
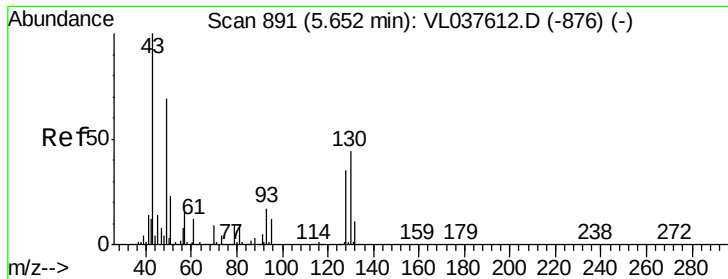
Quant Time: Sep 30 21:10:24 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091621.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Thu Sep 16 13:42:46 2021
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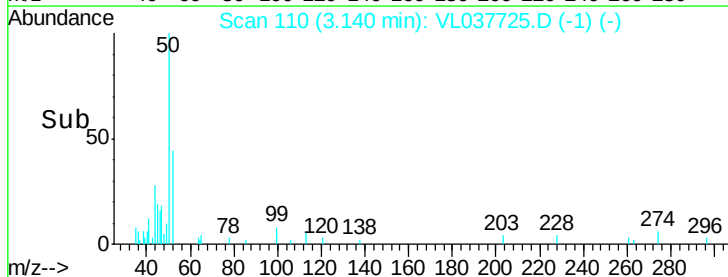
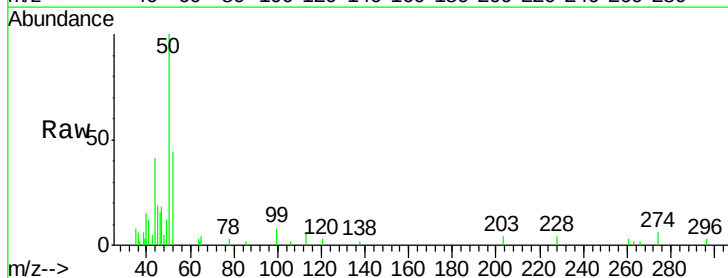
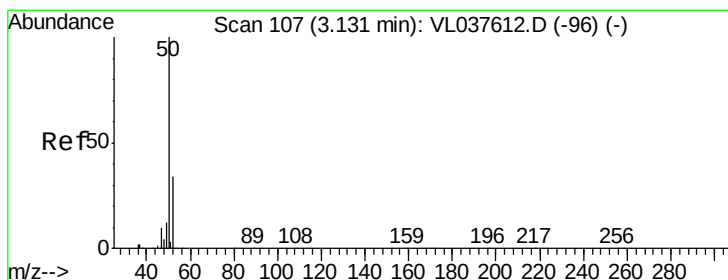
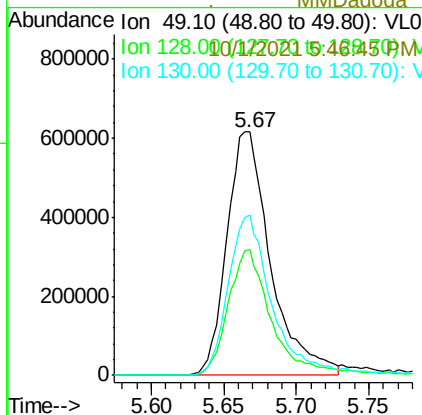
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.67
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 29 Sep 2021 9:46

Tgt Ion:
 Ion Ratio
 49 100
 128 52.
 130 67.

Manual Integrations
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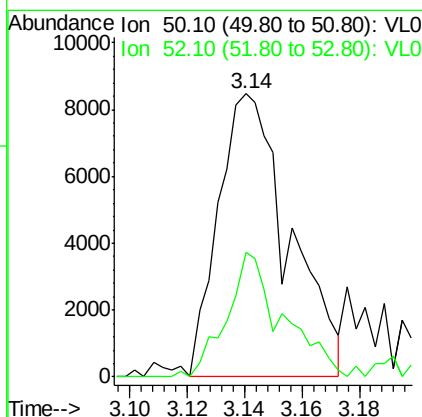
Reviewed By :Semsettin Yesilyurt 10/01/2021
 Supervised By :Mahesh Dadoda 10/01/2021

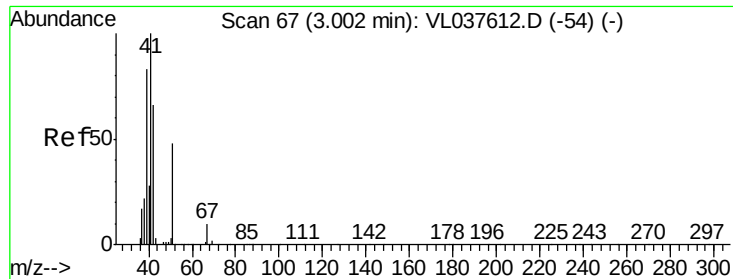
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 : MMDadoda



#4
 Chloromethane
 Concen: 0.161 ppbv m
 RT: 3.14 min Scan# 110
 Delta R.T. 0.01 min
 Lab File: VL037725.D
 Acq: 29 Sep 2021 9:46

Tgt Ion: 50 Resp: 14464
 Ion Ratio Lower Upper
 50 100
 52 43.9 27.1 40.7#





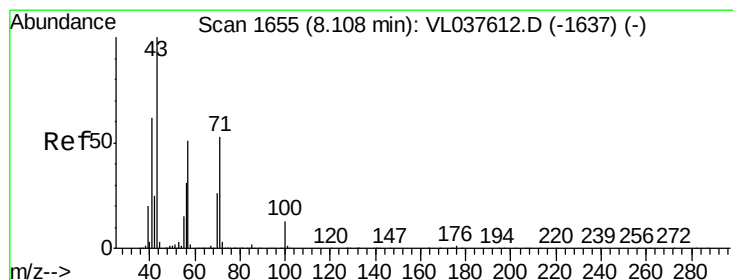
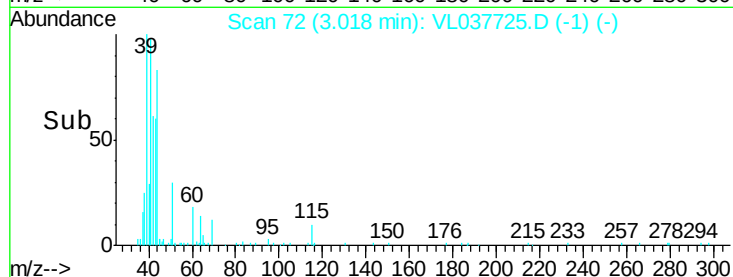
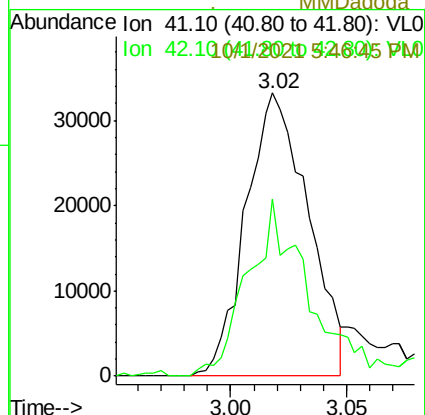
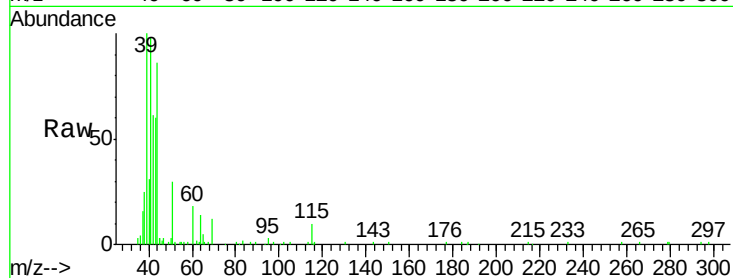
#9
 Propene
 Concen: 0.725 ppbv
 RT: 3.02
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 29 Sep 2021 9:46

Tgt Ion:
 Ion Ratio
 41 100
 42 60.

Manual Integrations
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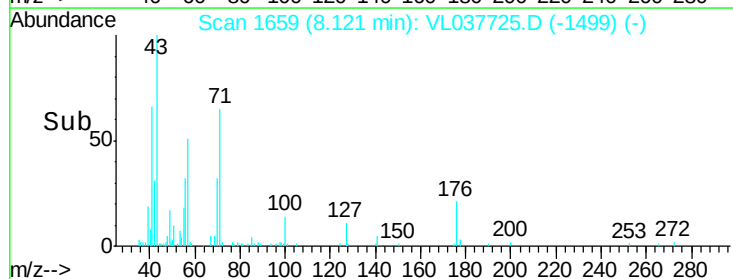
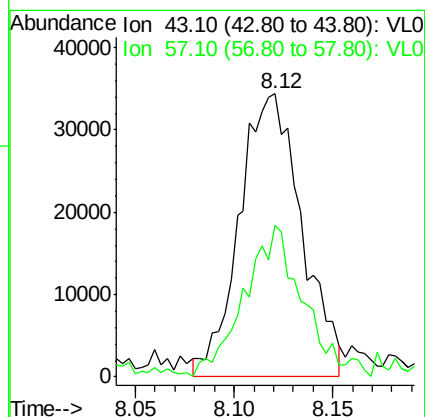
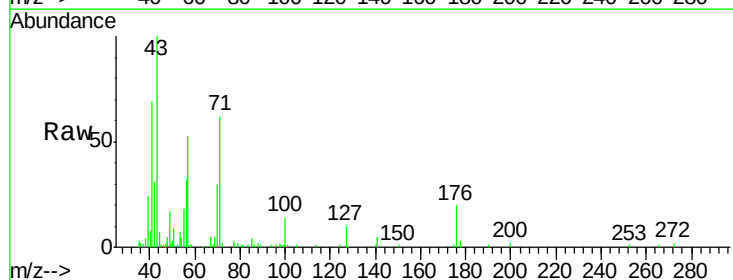
Reviewed By :Semsettin Yesilyurt 10/01/2021
 Supervised By :Mahesh Dadoda 10/01/2021

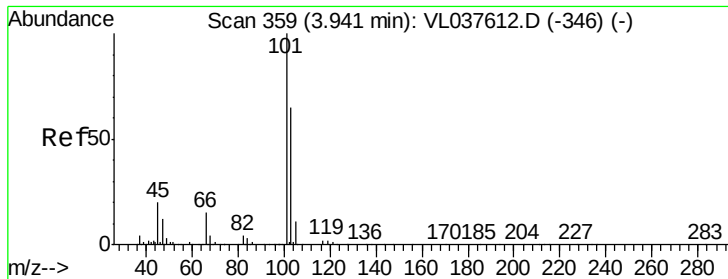
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 : MMDadoda



#10
 Heptane
 Concen: 0.378 ppbv m
 RT: 8.12 min Scan# 1659
 Delta R.T. 0.01 min
 Lab File: VL037725.D
 Acq: 29 Sep 2021 9:46

Tgt Ion: 43 Resp: 75547
 Ion Ratio Lower Upper
 43 100
 57 50.9 40.1 60.1





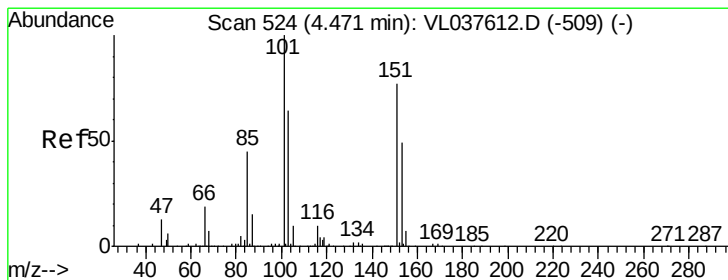
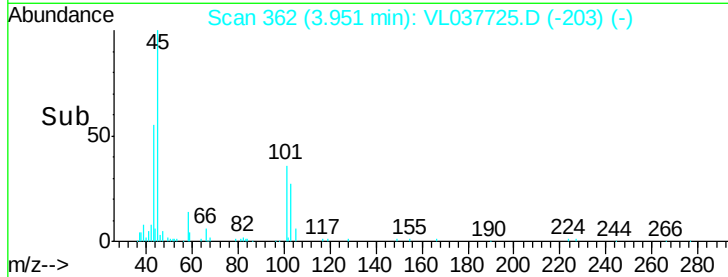
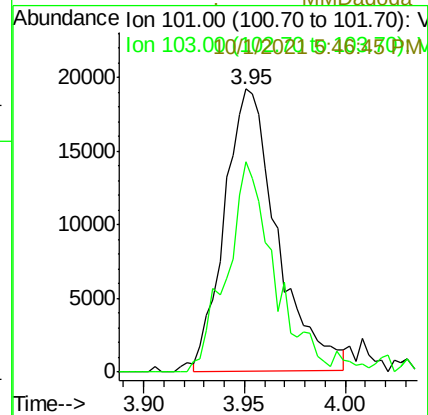
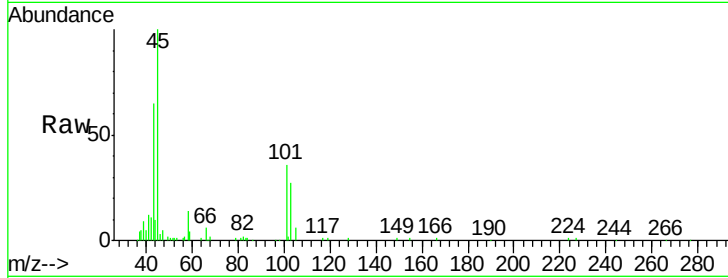
#11
 Trichlorofluoromethane
 Concen: 0.187 ppbv
 RT: 3.95
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 29 Sep 2021 9:48

Tgt Ion: 101
 Ion Ratio: 100
 103 72.

Manual Integrations
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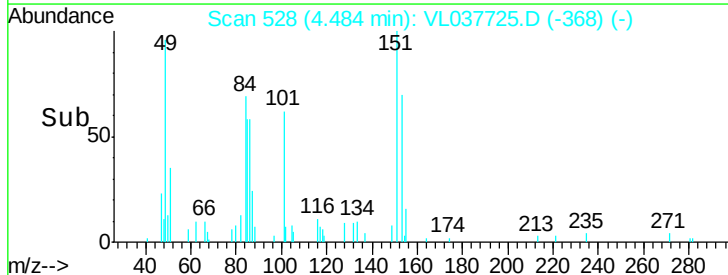
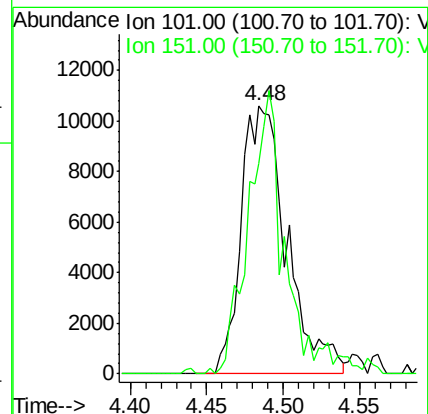
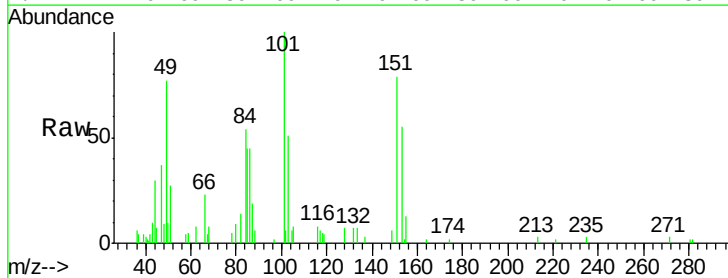
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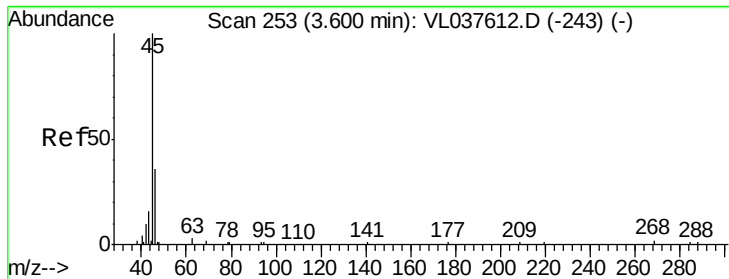
Supervised By:
 MMDadoda



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.159 ppbv m
 RT: 4.48 min Scan# 528
 Delta R.T.: 0.01 min
 Lab File: VL037725.D
 Acq: 29 Sep 2021 9:46

Tgt Ion: 101 Resp: 21925
 Ion Ratio Lower Upper
 101 100
 151 85.8 63.5 95.3





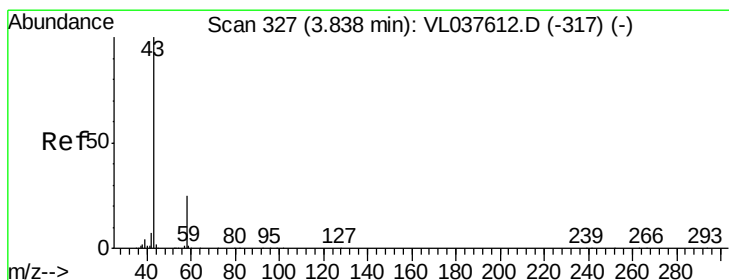
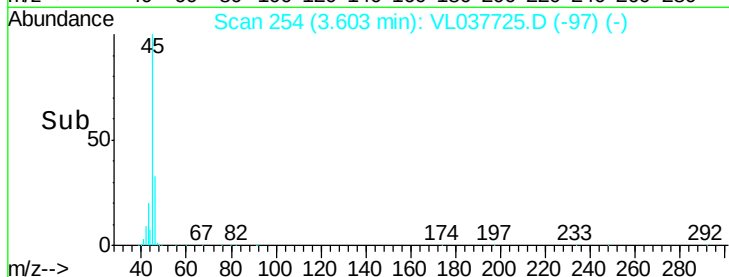
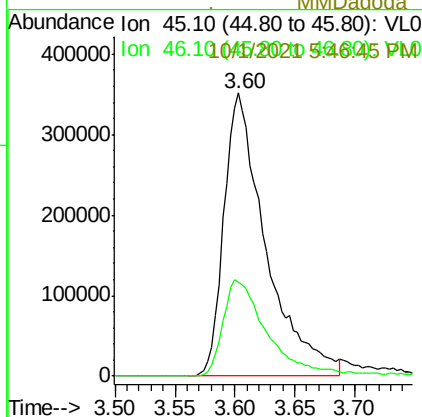
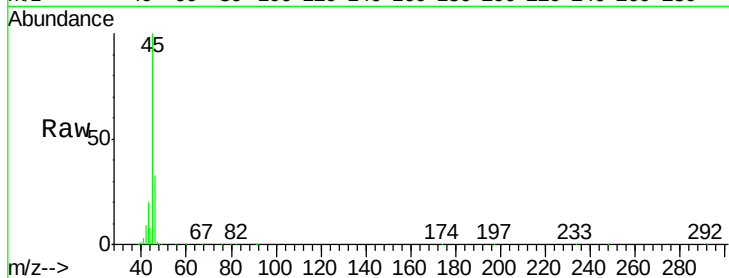
#13
Ethanol
Concen: 100.868 ppbv m
RT: 3.60
Instrument: MSVOA_L
Delta R.T.: 0.01
Lab File: ClientSampleId :
Acq: 29 Sep 2021 9:46

Tgt Ion:
Ion Ratio
45 100
46 36.

Manual Integrations
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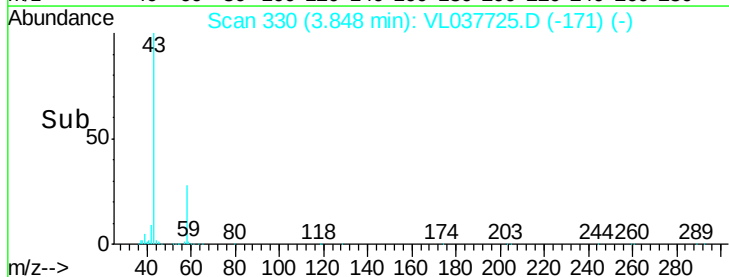
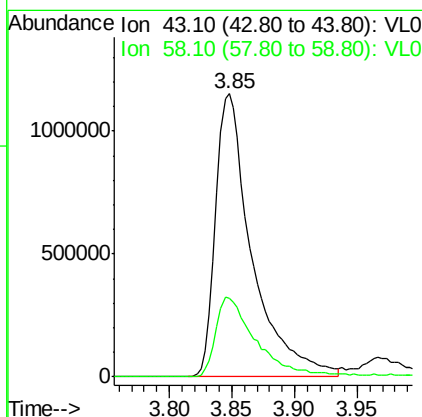
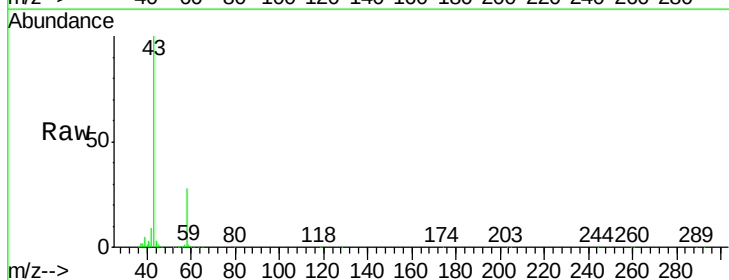
Reviewed By :Semsettin Yesilyurt 10/01/2021
Supervised By :Mahesh Dadoda 10/01/2021

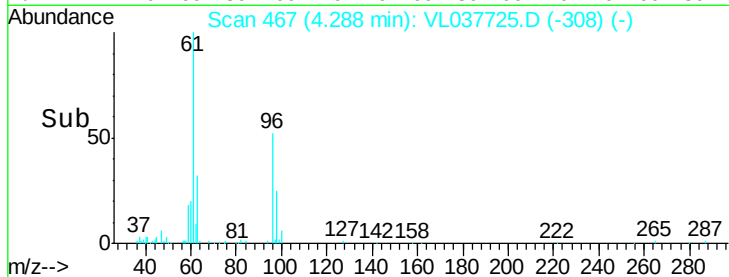
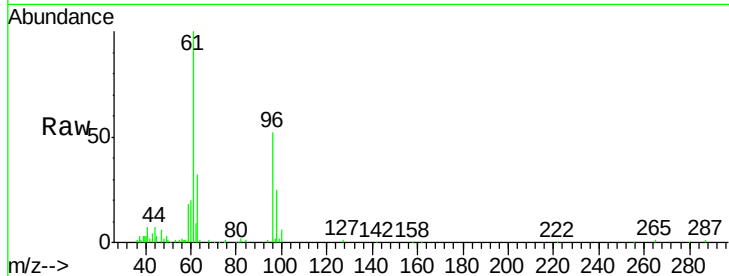
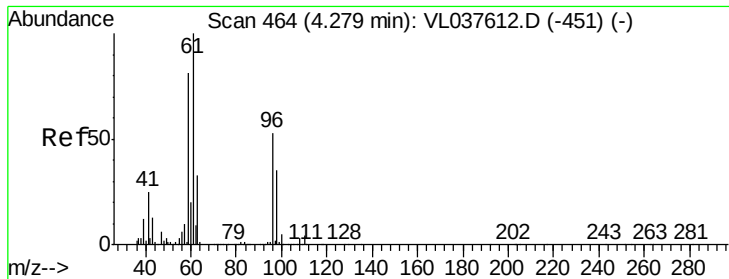
Supervised By
: MMDadoda



#15
Acetone
Concen: 17.379 ppbv
RT: 3.85 min Scan# 330
Delta R.T. 0.01 min
Lab File: VL037725.D
Acq: 29 Sep 2021 9:46

Tgt Ion: 43 Resp: 2321719
Ion Ratio Lower Upper
43 100
58 32.6 24.9 37.3





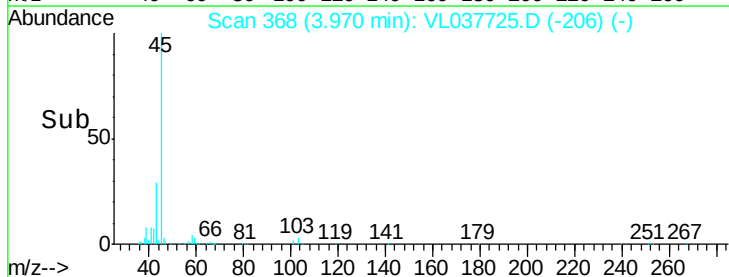
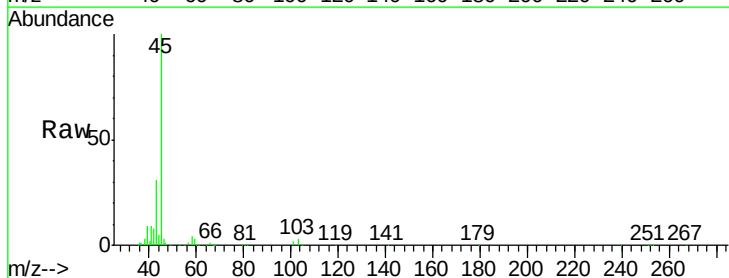
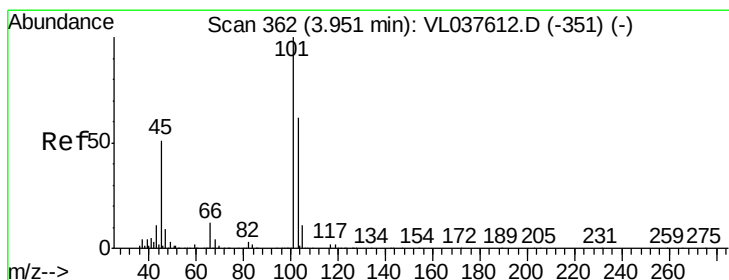
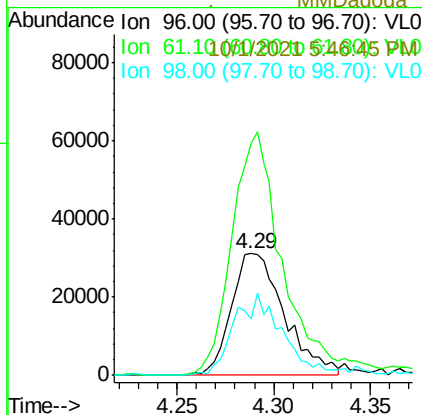
#18
 1,1-Dichloroethene
 Concen: 0.925 ppbv
 RT: 4.29
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 29 Sep 2021 9:40

Tgt Ion:
 Ion Ratio
 96 100
 61 189.
 98 46.

Manual Integrations
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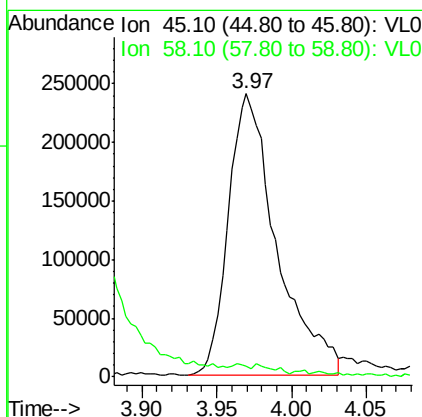
Reviewed By :Semsettin Yesilyurt 10/01/2021
 Supervised By :Mahesh Dadoda 10/01/2021

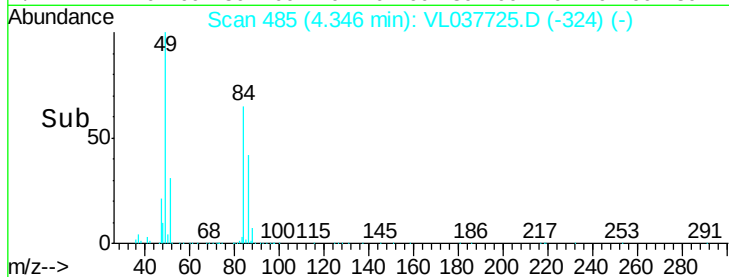
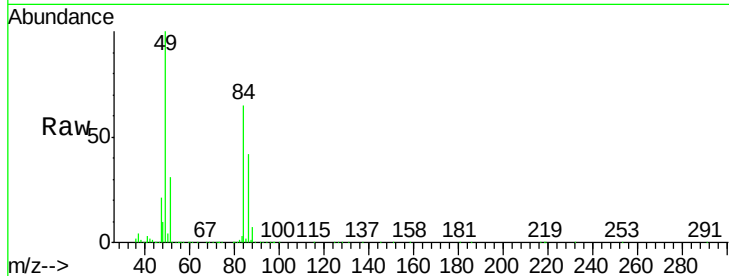
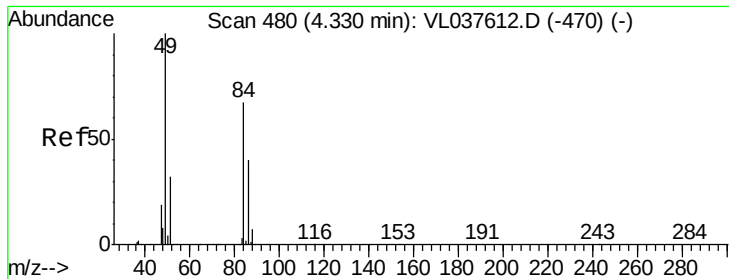
Supervised By
 : MMDadoda



#19
 Isopropyl Alcohol
 Concen: 7.429 ppbv
 RT: 3.97 min Scan# 368
 Delta R.T. 0.02 min
 Lab File: VL037725.D
 Acq: 29 Sep 2021 9:46

Tgt Ion: 45 Resp: 539978
 Ion Ratio Lower Upper
 45 100
 58 140.0 2.9 4.3#





#20

Methylene Chloride

Concen: 27.625 ppbv

RT: 4.35

Delta R.T. MSVOA_L

Lab File:

Acq: 29 Sep 2021 9:40

Client Sample Id :

EFFLUENT

Tgt Ion:

Ion Ratio

84 100

49 153.

51 47.

86 64.6

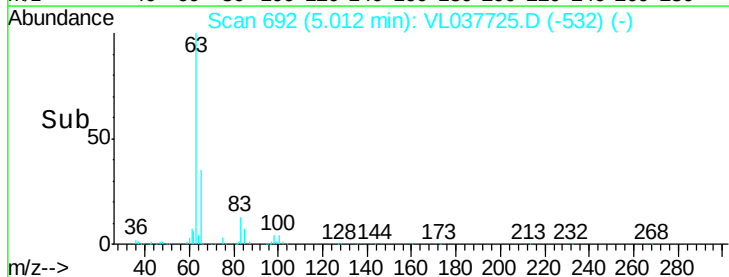
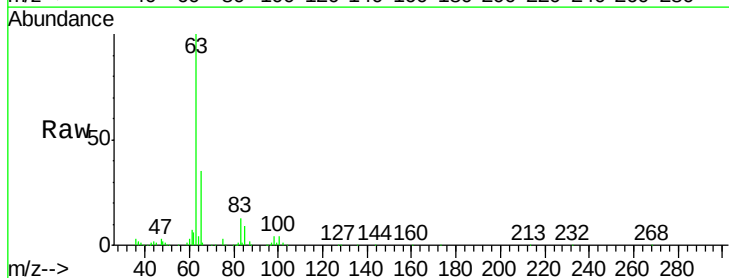
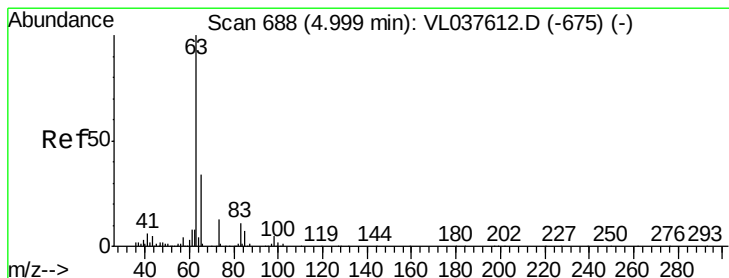
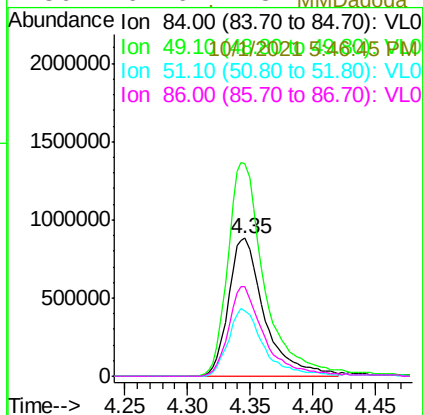
Manual Integrations

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Supervised By :MMDadoda



#24

1,1-Dichloroethane

Concen: 2.361 ppbv

RT: 5.01 min Scan# 692

Delta R.T. 0.01 min

Lab File: VL037725.D

Acq: 29 Sep 2021 9:46

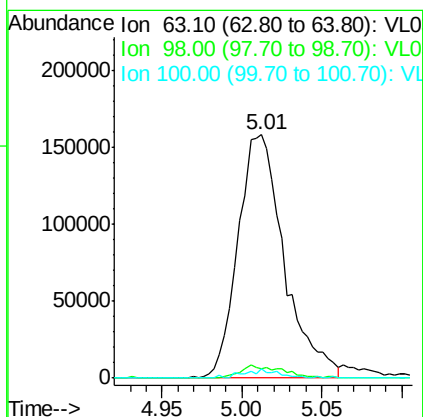
Tgt Ion: 63 Resp: 312679

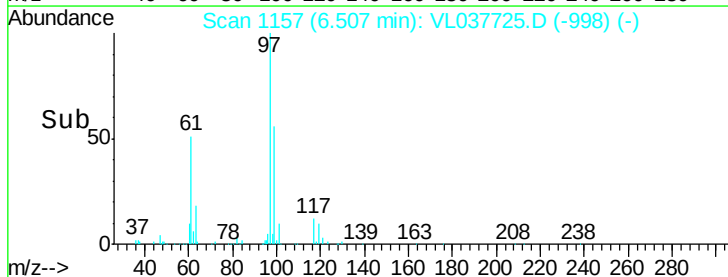
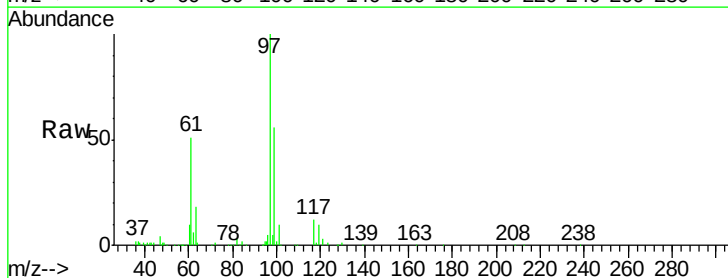
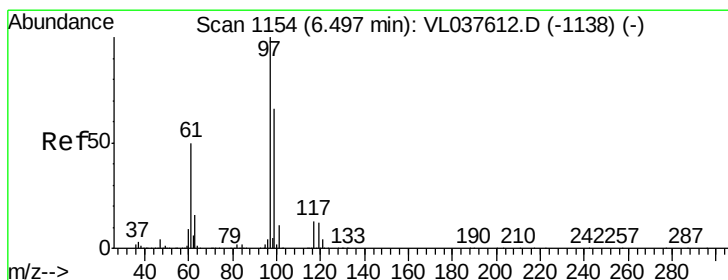
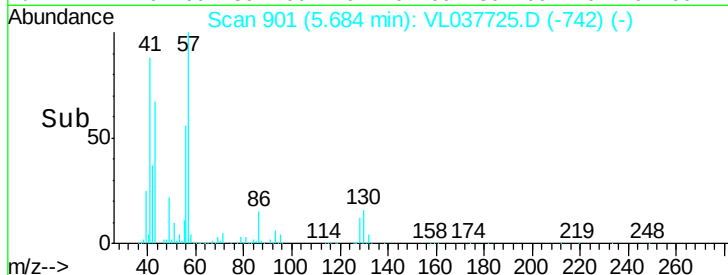
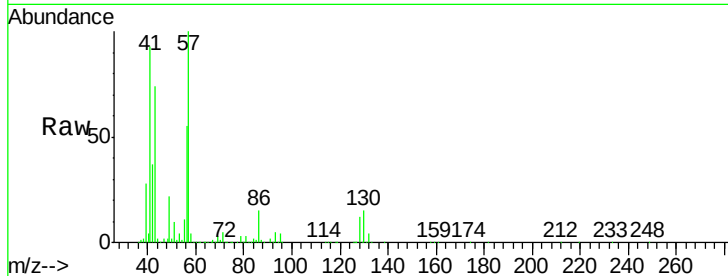
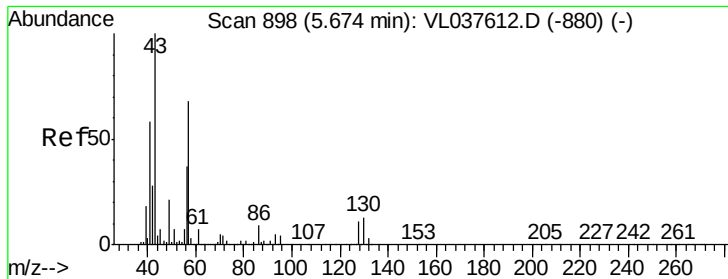
Ion Ratio Lower Upper

63 100

98 3.7 2.4 7.2

100 3.9 1.1 3.5#





#26

Hexane

Concen: 15.246 ppbv

RT: 5.68

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 29 Sep 2021 9:40

Tgt Ion:

Ion Ratio

57 100

41 93.

43 72.

56 55.4

Manual Integrations

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Supervised By :Mahesh Dadoda 10/01/2021

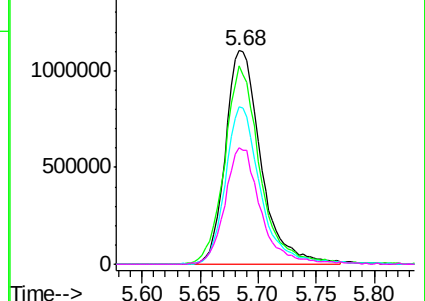
Supervised By :MMDadoda

Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.60): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#32

1,1,1-Trichloroethane

Concen: 1.065 ppbv m

RT: 6.51 min Scan# 1157

Delta R.T. 0.01 min

Lab File: VL037725.D

Acq: 29 Sep 2021 9:46

Tgt Ion: 97 Resp: 222560

Ion Ratio Lower Upper

97 100

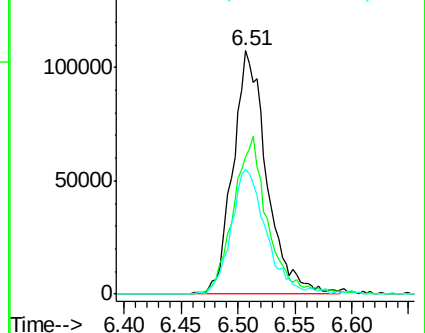
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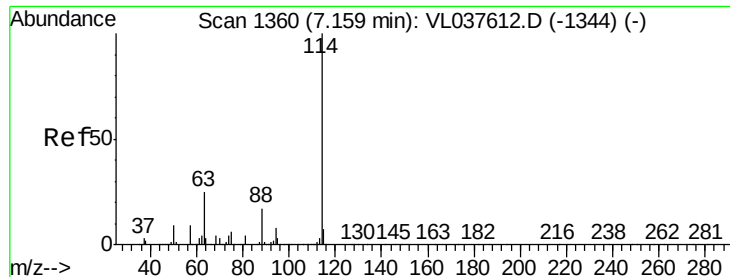
61 53.9 39.5 59.3

Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

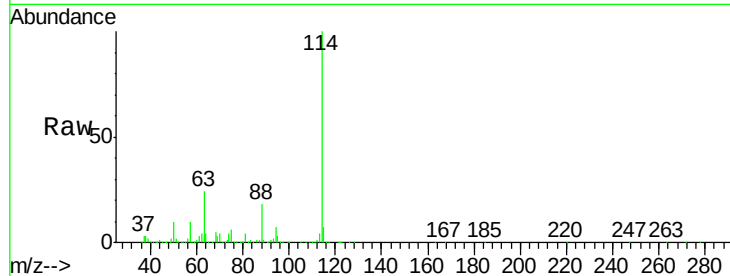




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 29 Sep 2021 9:40

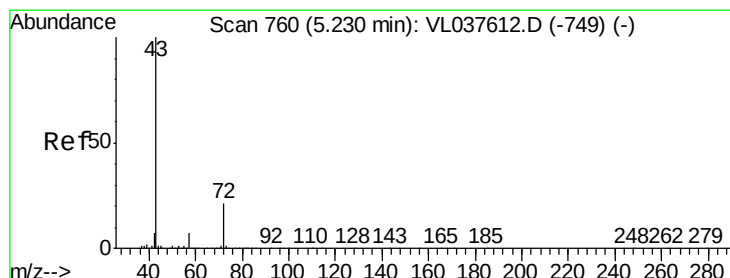
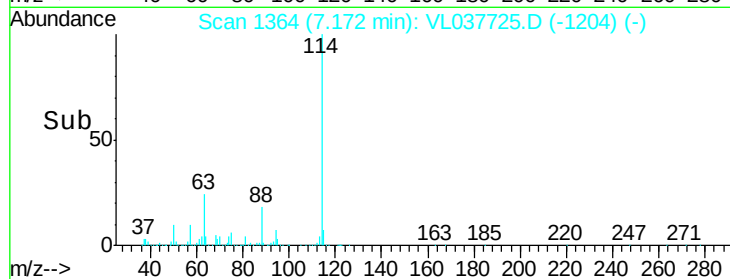
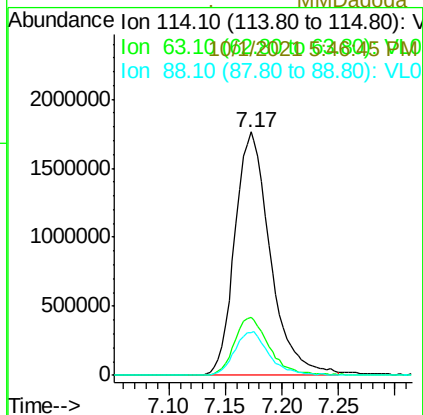
Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/01/2021
 Supervised By :Mahesh Dadoda 10/01/2021



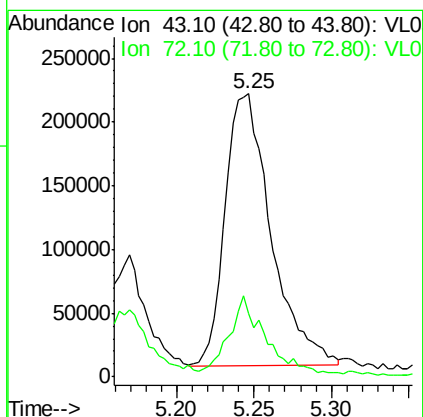
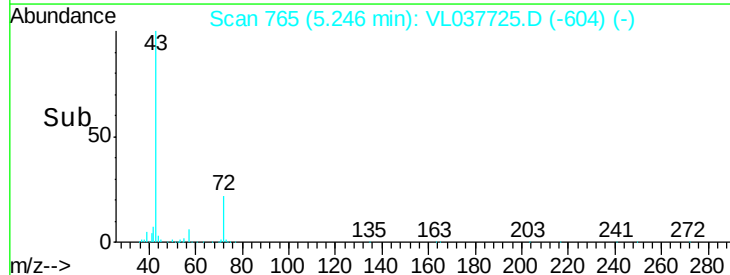
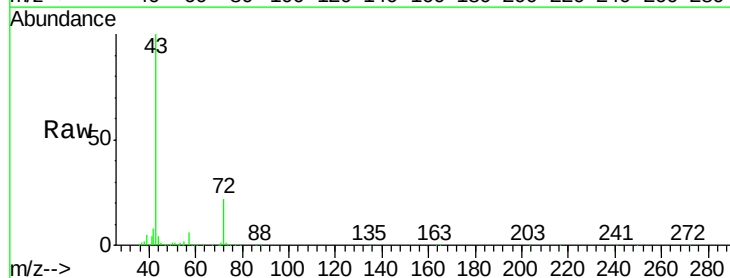
Tgt Ion: 114
 Ion Ratio: 100
 63 24.1
 88 18.1

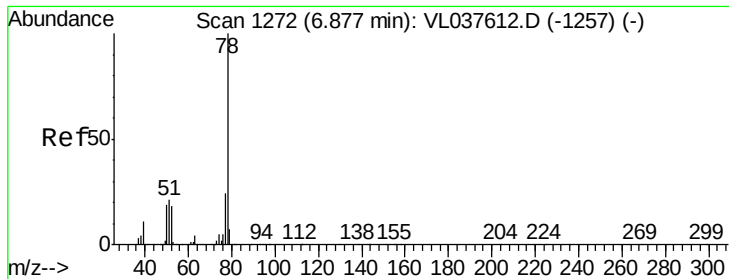
Supervised By :
 MMDadoda



#34
 2-Butanone
 Concen: 2.805 ppbv
 RT: 5.25 min Scan# 765
 Delta R.T. 0.02 min
 Lab File: VL037725.D
 Acq: 29 Sep 2021 9:46

Tgt Ion: 43 Resp: 439137
 Ion Ratio Lower Upper
 43 100
 72 26.7 18.4 27.6





#36

Benzene

Concen: 0.164 ppbv m

RT: 6.88 Instrument: MSVOA_L

Delta R.T. 0.03 min

Lab File: ClientSampleId:

Acq: 29 Sep 2021 9:46

Tgt Ion:

Ion Ratio

78 100

77 15.

50 18.

Manual Integrations

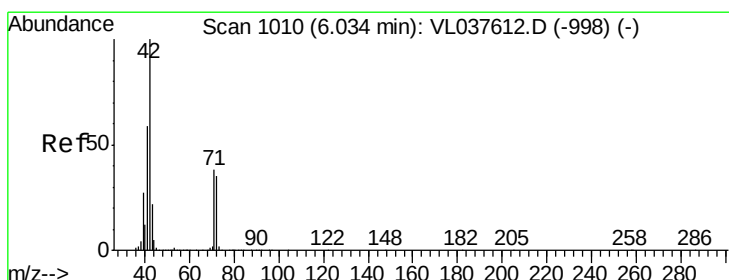
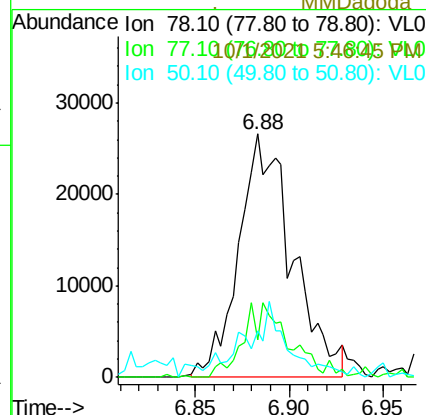
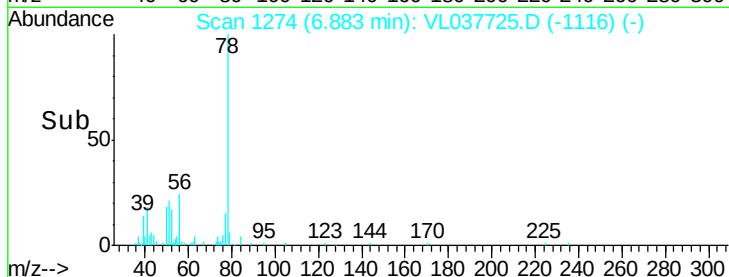
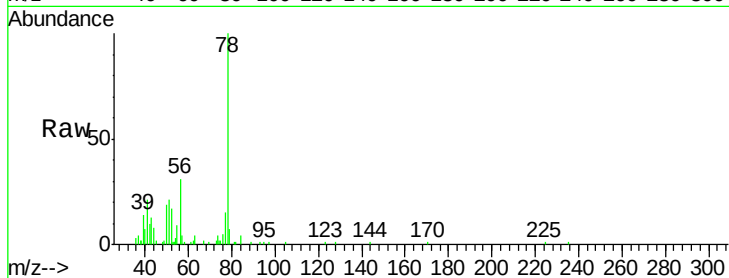
APPROVED

Reviewed By :Semsettin Yesilyurt 10/01/2021

Supervised By :Mahesh Dadoda 10/01/2021

Supervised By

: MMDadoda



#41

Tetrahydrofuran

Concen: 1.833 ppbv m

RT: 6.06 min Scan# 1018

Delta R.T. 0.03 min

Lab File: VL037725.D

Acq: 29 Sep 2021 9:46

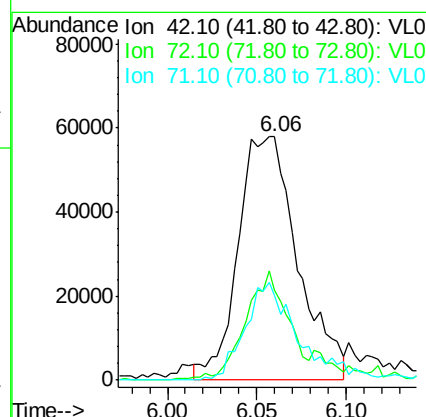
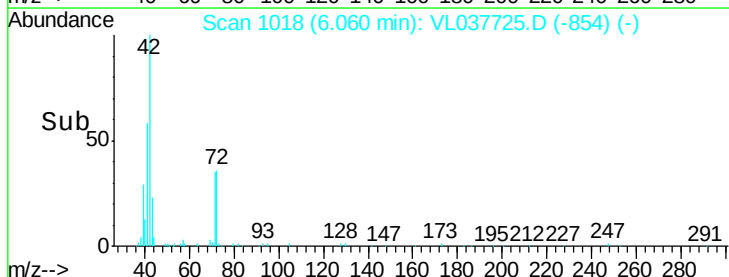
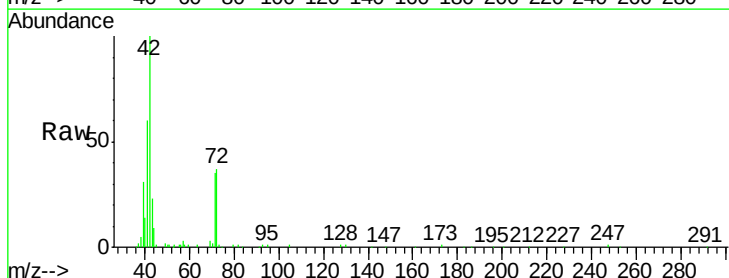
Tgt Ion: 42 Resp: 134903

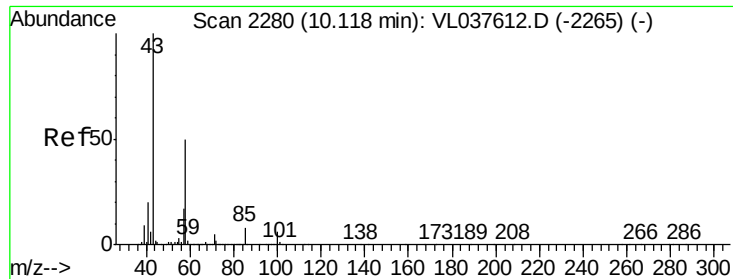
Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.2#

71 0.0 30.6 46.0#



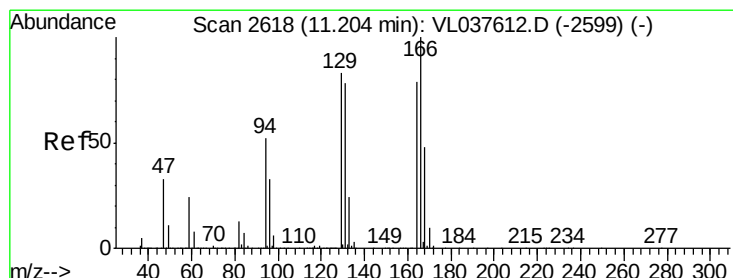
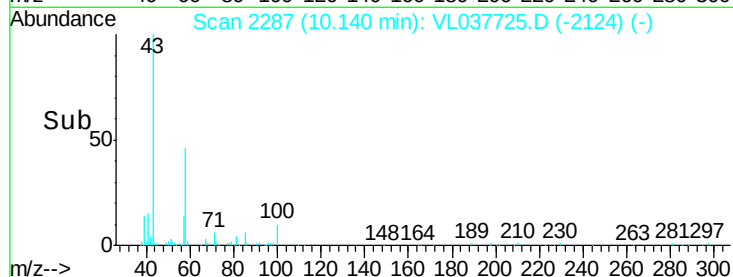
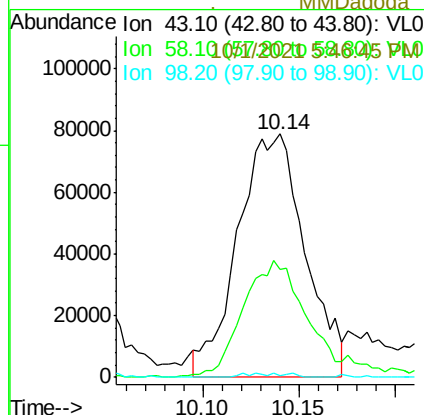
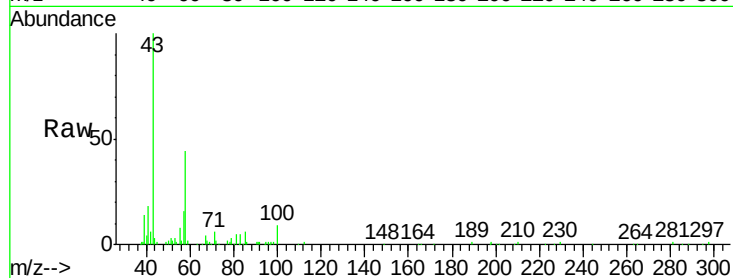


#51
2-Hexanone
Concen: 2.187 ppbv m
RT: 10.14 min
Instrument: MSVOA_L
Delta R.T.: 0.00 min
Lab File: ClientSampleId :
Acq: 29 Sep 2021 9:46

Tgt Ion:
Ion Ratio
43 100
58 0.
98 1.

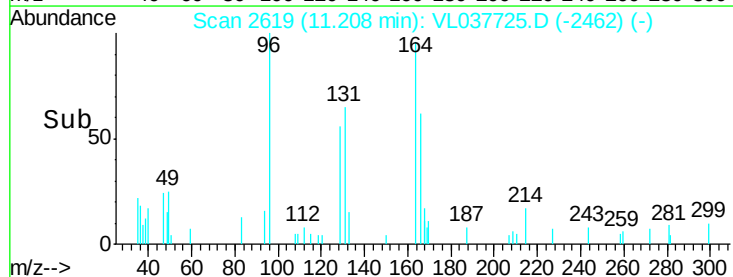
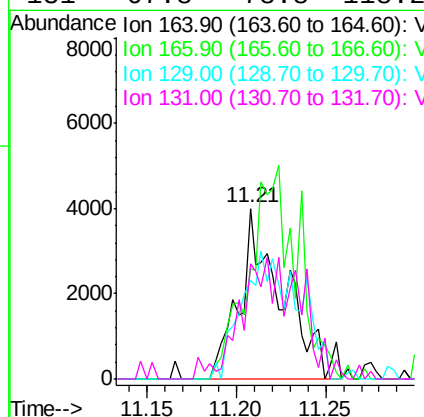
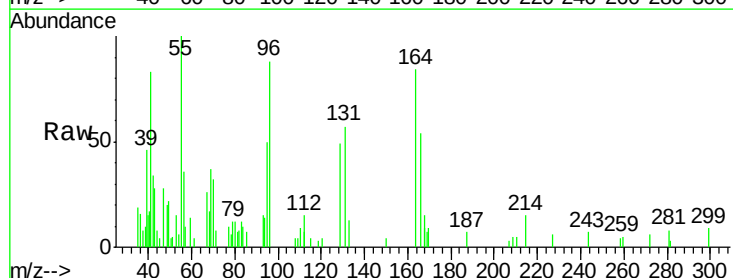
Manual Integrations
APPROVED

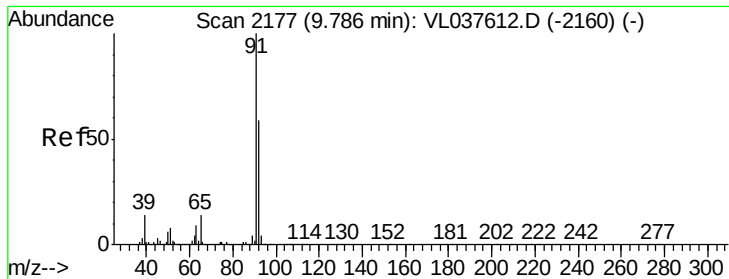
Reviewed By :Semsettin Yesilyurt 10/01/2021
Supervised By :Mahesh Dadoda 10/01/2021



#52
Tetrachloroethene
Concen: 0.055 ppbv m
RT: 11.21 min Scan# 2619
Delta R.T.: 0.00 min
Lab File: VL037725.D
Acq: 29 Sep 2021 9:46

Tgt Ion:164 Resp: 6817
Ion Ratio Lower Upper
164 100
166 64.3 101.2 151.8#
129 58.3 84.0 126.0#
131 67.8 78.8 118.2#





#53

Toluene

Concen: 1.172 ppbv

RT: 9.80

Delta R.T.

Lab File:

Acq: 29 Sep 2021

Instrument:

MSVOA_L

Client Sample Id:

EFFLUENT

9.40

Tgt Ion:

Ion Ratio

91 100

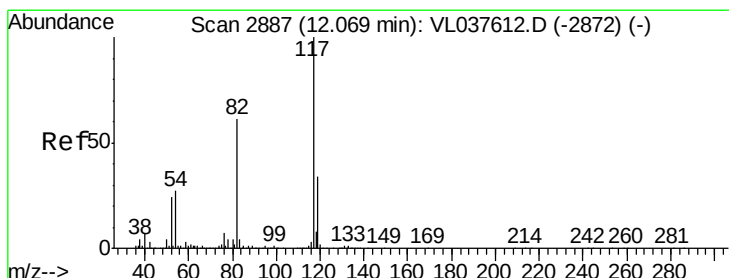
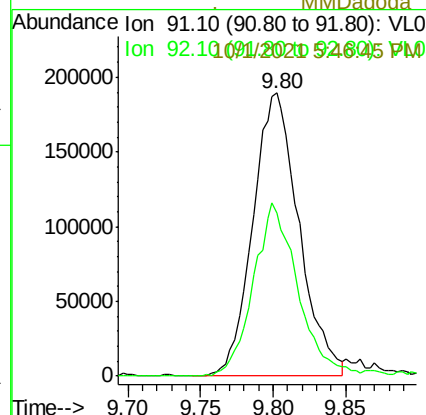
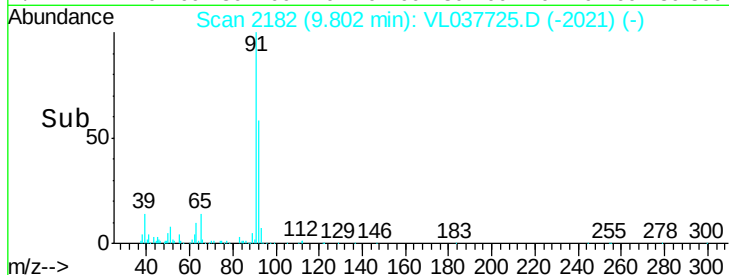
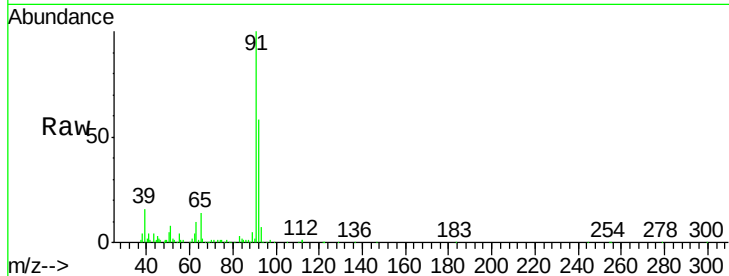
92 60.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/01/2021

Supervised By :Mahesh Dadoda 10/01/2021



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2890

Delta R.T. 0.01 min

Lab File: VL037725.D

Acq: 29 Sep 2021 9:46

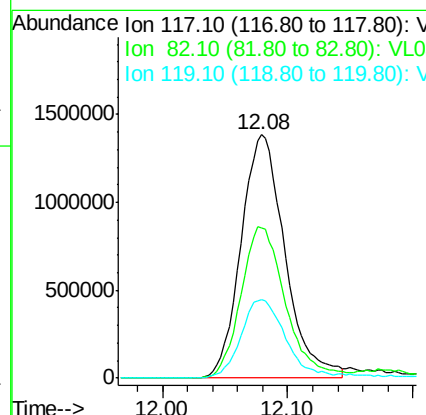
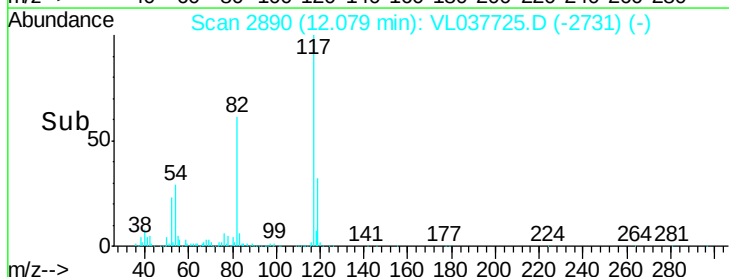
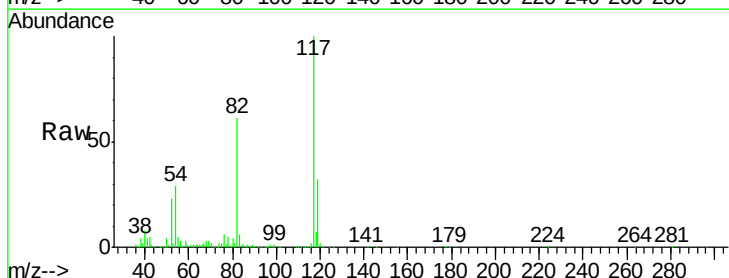
Tgt Ion:117 Resp: 3372670

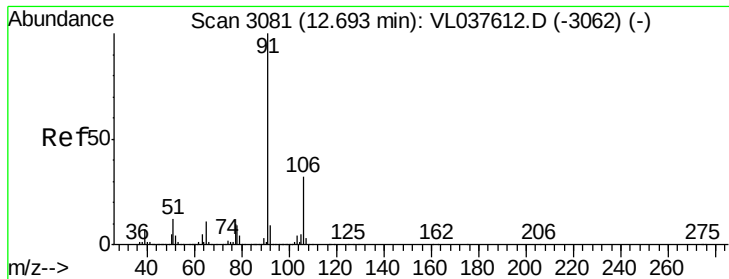
Ion Ratio Lower Upper

117 100

82 63.3 50.6 75.8

119 34.5 26.2 39.2





#58

Ethyl Benzene

Concen: 0.509 ppbv m

RT: 12.71

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 29 Sep 2021 9:48

Tgt Ion:

Ion Ratio

91 100

106 31.

Manual Integrations

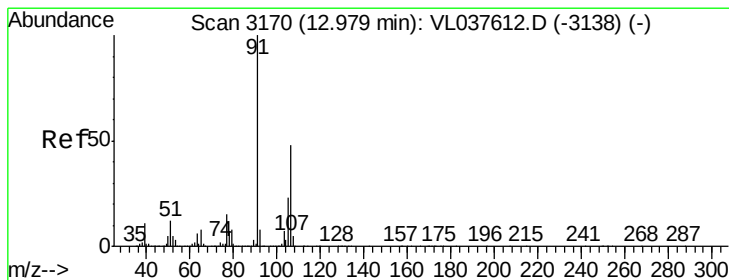
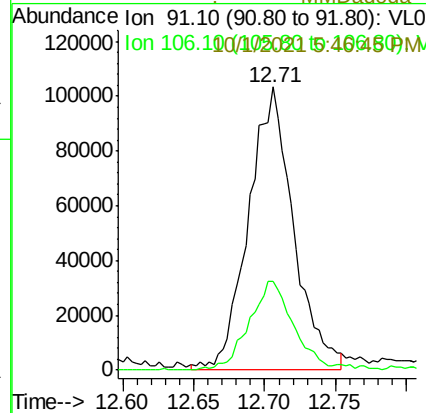
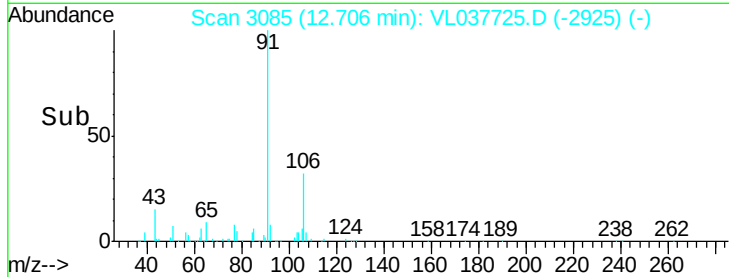
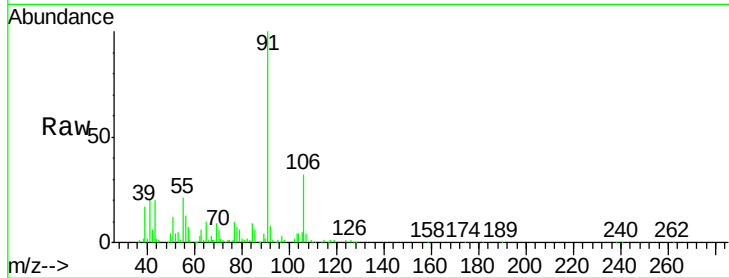
APPROVED

Reviewed By :Semsettin Yesilyurt 10/01/2021

Supervised By :Mahesh Dadoda 10/01/2021

Supervised By

: MMDadoda



#59

m/p-Xylene

Concen: 1.378 ppbv m

RT: 12.96 min Scan# 3164

Delta R.T. -0.02 min

Lab File: VL037725.D

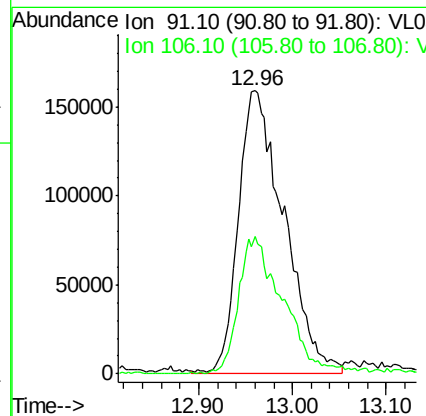
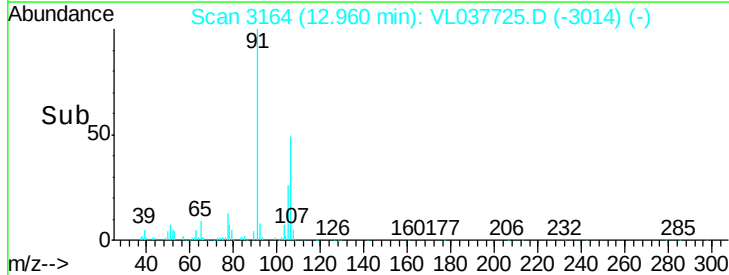
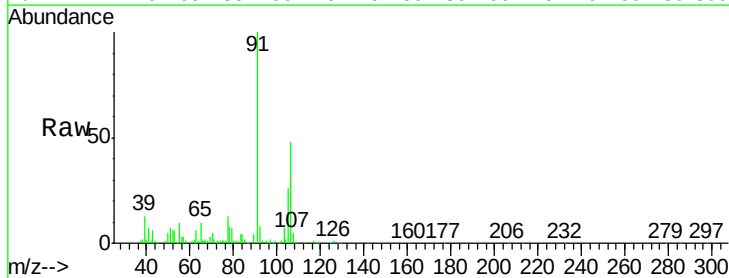
Acq: 29 Sep 2021 9:46

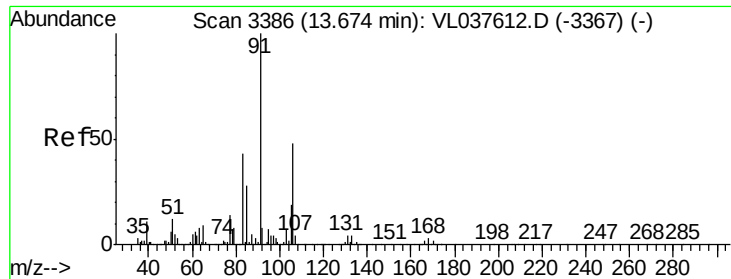
Tgt Ion: 91 Resp: 537517

Ion Ratio Lower Upper

91 100

106 0.0 36.6 55.0#





#60
o-Xylene
Concen: 0.702 ppbv
RT: 13.68 min
Delta R.T. 0.01 min
Lab File: VL037725.D
Acq: 29 Sep 2021 9:46

Instrument: MSVOA_L

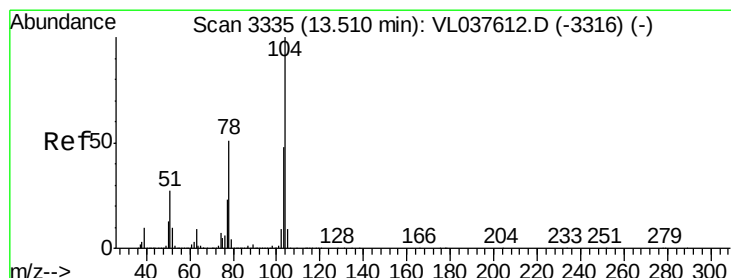
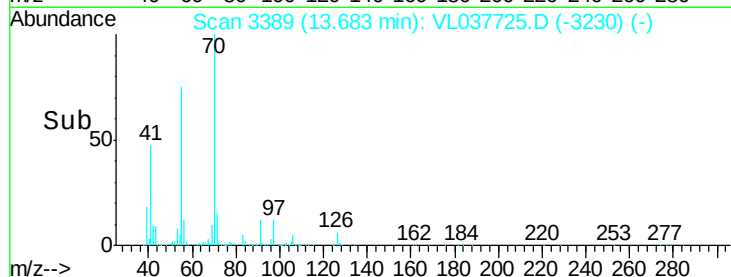
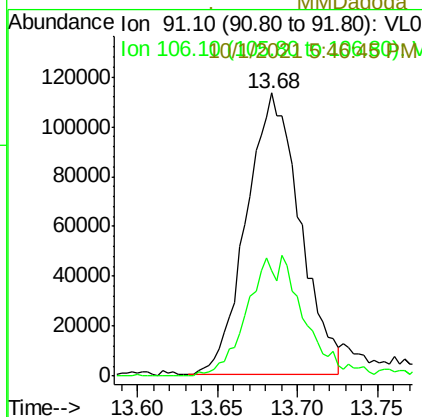
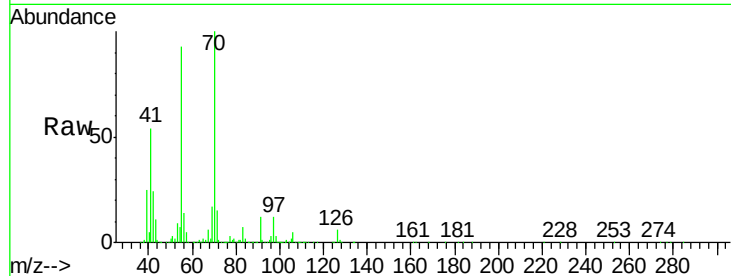
Client Sample Id: EFFLUENT

Tgt Ion: 91
Ion Ratio: 100
106 46.

Manual Integrations
APPROVED

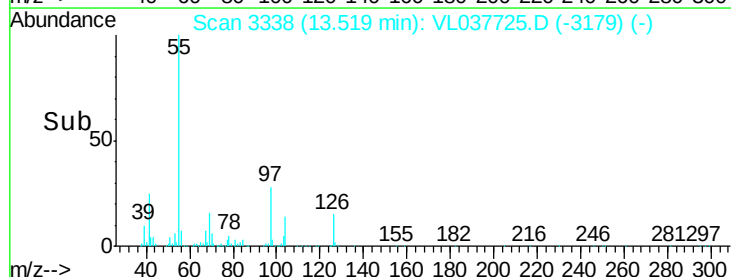
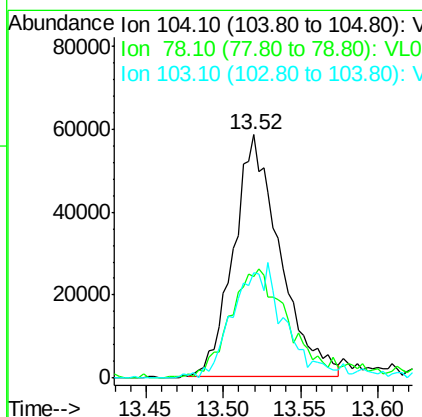
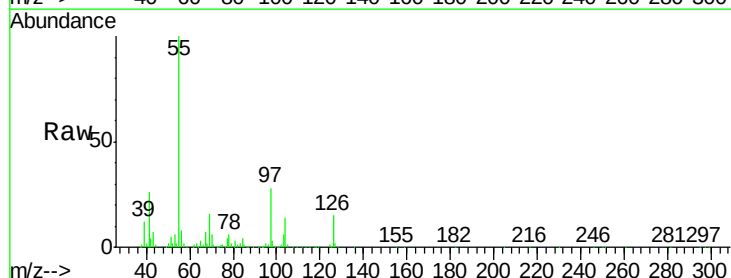
Reviewed By: Semsettin Yesilyurt 10/01/2021
Supervised By: Mahesh Dadoda 10/01/2021

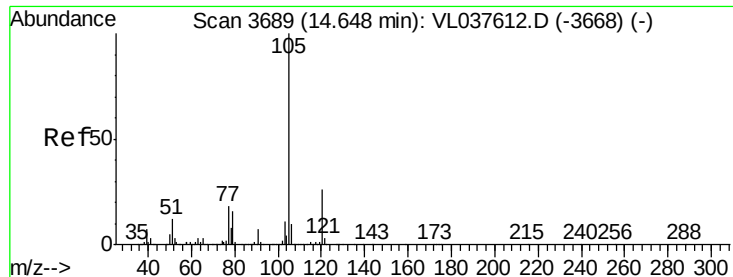
Supervised By: MMDadoda



#61
Styrene
Concen: 0.666 ppbv
RT: 13.52 min Scan# 3338
Delta R.T. 0.01 min
Lab File: VL037725.D
Acq: 29 Sep 2021 9:46

Tgt Ion: 104 Resp: 121874
Ion Ratio Lower Upper
104 100
78 61.7 39.7 59.5#
103 52.7 38.8 58.2





#62

Isopropylbenzene

Concen: 0.096 ppbv m

RT: 14.66

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 29 Sep 2021 9:48

Tgt Ion:1

Ion Ratio

105 100

120 0.

Manual Integrations

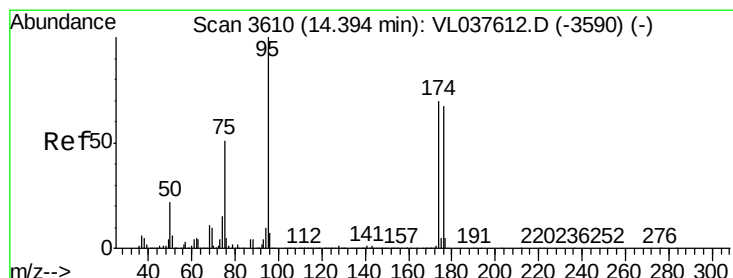
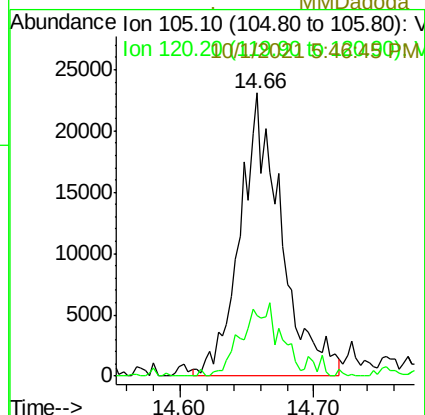
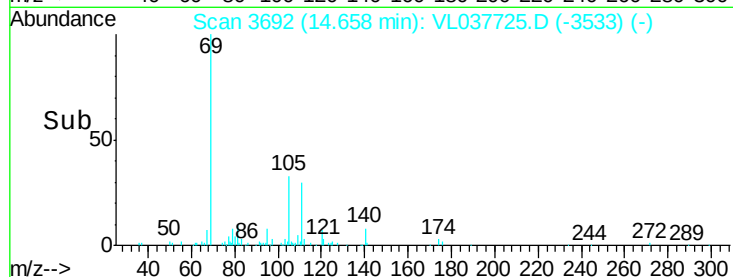
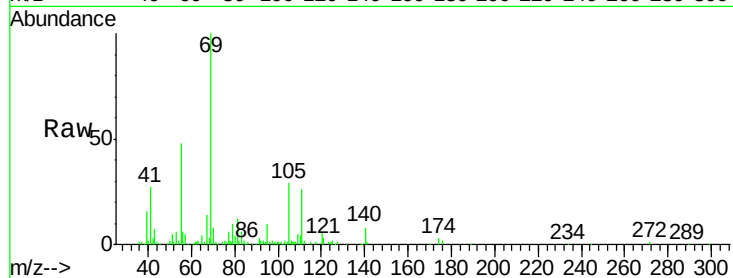
APPROVED

Reviewed By :Semsettin Yesilyurt 10/01/2021

Supervised By :Mahesh Dadoda 10/01/2021

Supervised By

: MMDadoda



#68

1-Bromo-4-Fluorobenzene

Concen: 10.087 ppbv

RT: 14.41 min Scan# 3614

Delta R.T. 0.01 min

Lab File: VL037725.D

Acq: 29 Sep 2021 9:46

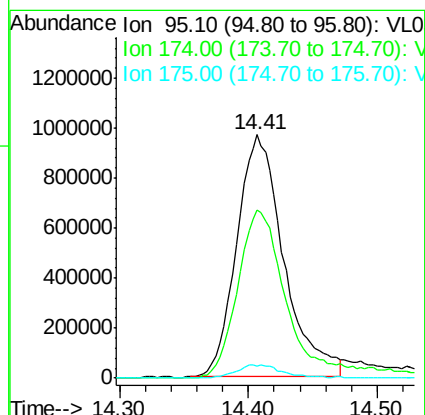
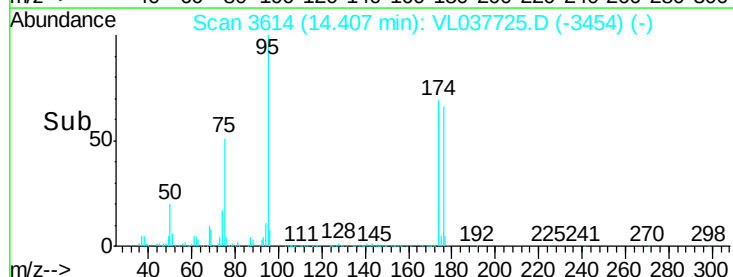
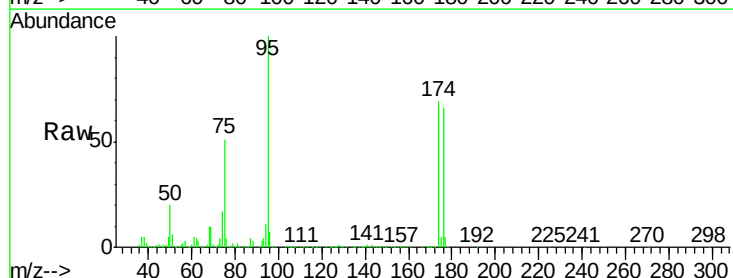
Tgt Ion: 95 Resp: 2458523

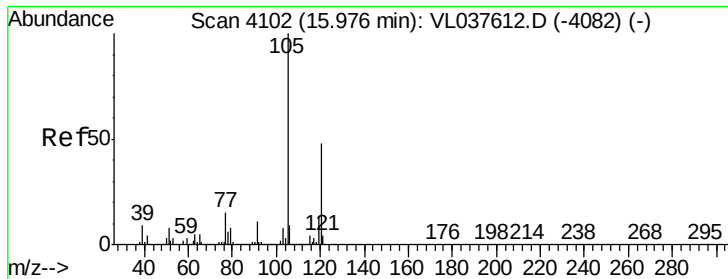
Ion Ratio Lower Upper

95 100

174 77.1 56.3 84.5

175 5.8 4.4 6.6





#73

1,3,5-Trimethylbenzene

Concen: 0.120 ppbv m

RT: 15.99 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 29 Sep 2021 9:40

Tgt Ion:1

Ion Ratio

105 100

120 49.

Manual Integrations

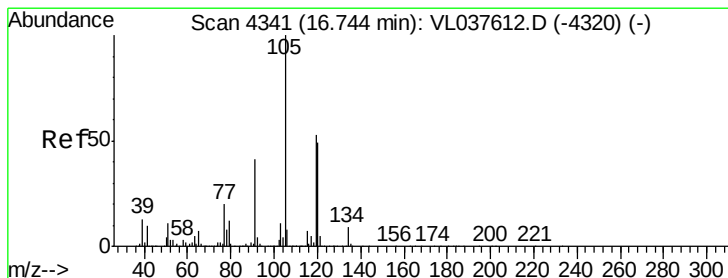
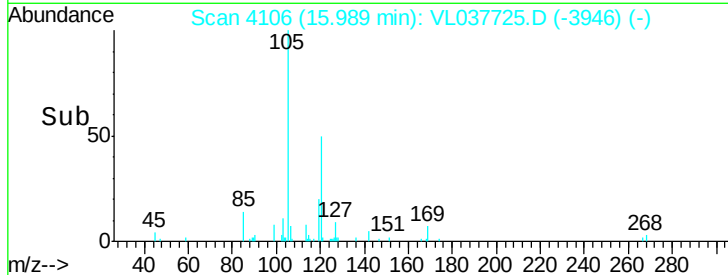
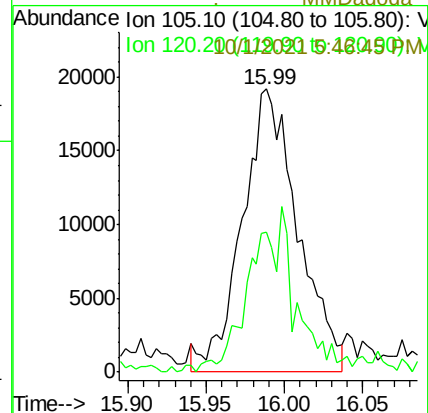
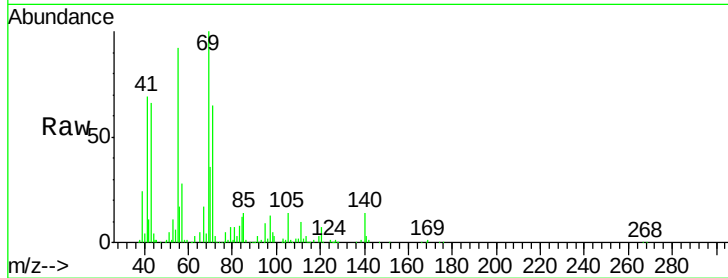
APPROVED

Reviewed By :Semsettin Yesilyurt 10/01/2021

Supervised By :Mahesh Dadoda 10/01/2021

Supervised By

: MMDadoda



#74

1,2,4-Trimethylbenzene

Concen: 0.328 ppbv m

RT: 16.75 min Scan# 4342

Delta R.T. 0.00 min

Lab File: VL037725.D

Acq: 29 Sep 2021 9:46

Tgt Ion:105 Resp: 137294

Ion Ratio Lower Upper

105 100

120 39.2 39.4 59.0#

91 14.0 33.3 49.9#

77 18.4 15.7 23.5

