

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041321\
 Data File : VL036802.D
 Acq On : 13 Apr 2021 14:23
 Operator : SY/AP
 Sample : M2018-02DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 SG2DL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/14/2021
 Supervised By :Mahesh Dadoda 04/14/2021

Quant Time: Apr 14 09:34:10 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1405395	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3480215	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2837343	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1876848	8.30	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	83.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.01	41	685530	8.189	ppbv	95
10) Heptane	8.12	43	520457	2.441	ppbv	97
13) Ethanol	3.61	45	40936m	4.107	ppbv	
15) Acetone	3.85	43	521973	3.774	ppbv #	77
17) tert-Butyl alcohol	4.31	59	53902m	0.448	ppbv	
19) Isopropyl Alcohol	3.98	45	105658m	1.389	ppbv	
26) Hexane	5.68	57	161948	1.061	ppbv #	47
27) Carbon Disulfide	4.55	76	405674	2.698	ppbv	96
30) Cyclohexane	7.13	84	50052m	0.404	ppbv	
36) Benzene	6.89	78	211081	0.658	ppbv	97
53) Toluene	9.81	91	268117	0.784	ppbv	96
58) Ethyl Benzene	12.71	91	56348m	0.137	ppbv	
59) m/p-Xylene	12.97	91	120340m	0.334	ppbv	
61) Styrene	13.53	104	34504m	0.197	ppbv	
62) Isopropylbenzene	14.67	105	999622	2.132	ppbv	99

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

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Acq On : 13 Apr 2021 14:23
Operator : SY/AP
Sample : M2018-02DL 10X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SG2DL

Manual Integrations
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Quant Time: Apr 14 09:34:10 2021

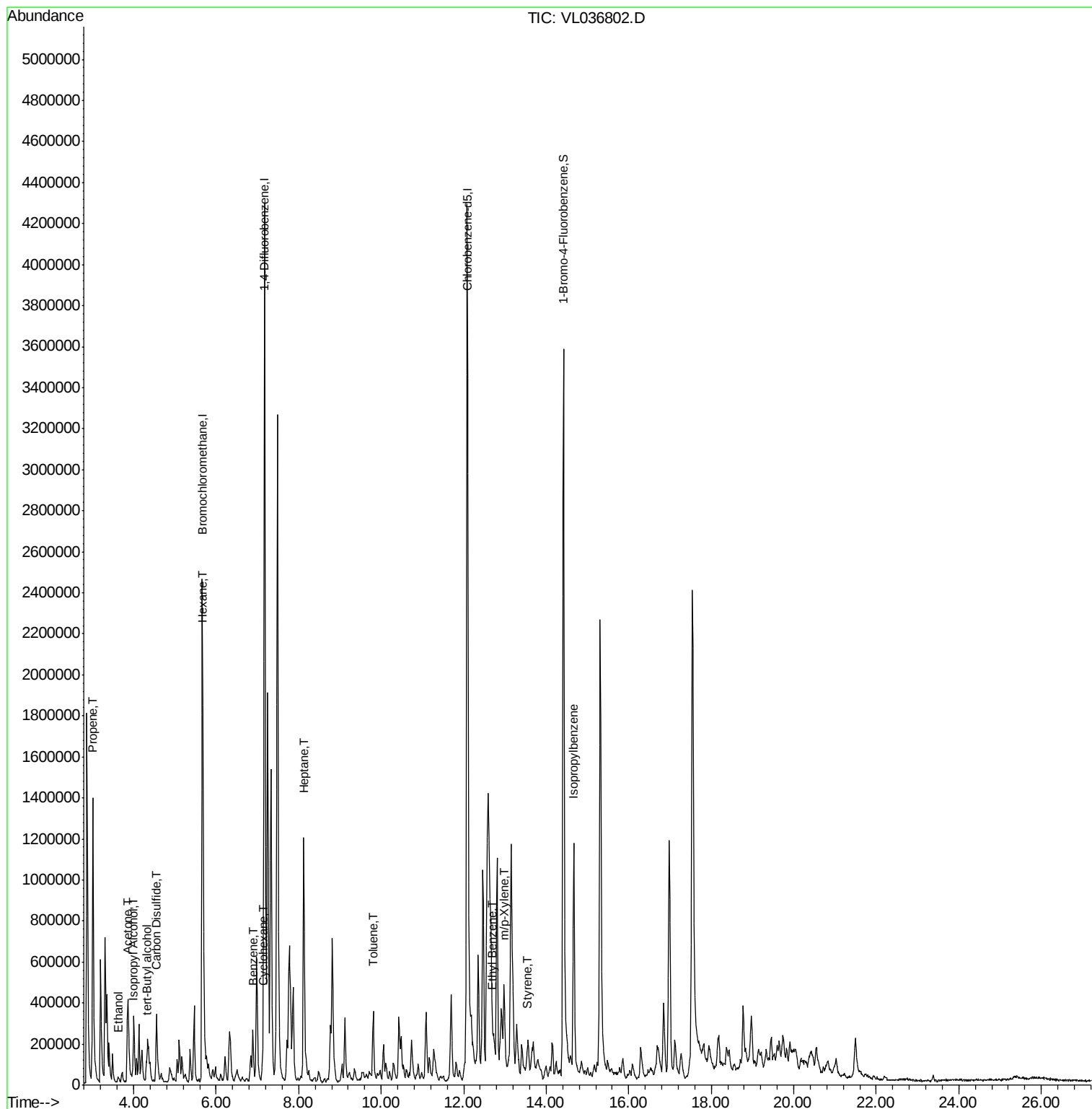
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521

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

QLast Update : Thu Mar 25 09:42:40 2021

Response via : Initial Calibration

Reviewed By :Semsettin Yesilyurt 04/14/2021
Supervised By :Mahesh Dadoda 04/14/2021





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SG2DL

Acq: 13 Apr 2021 14:23

Tot Ion:

Ion Ratio

49 100

128 46.

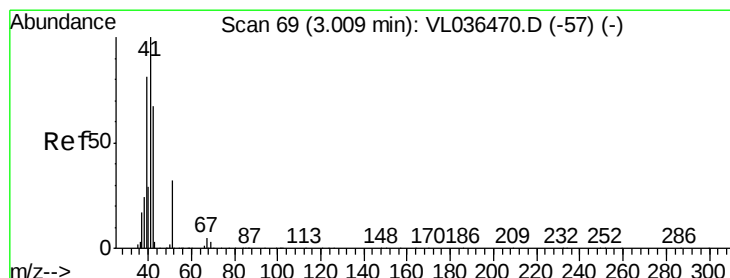
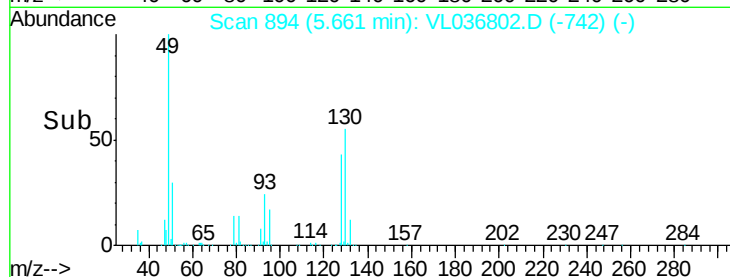
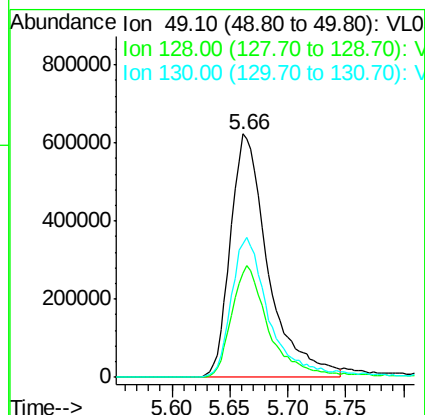
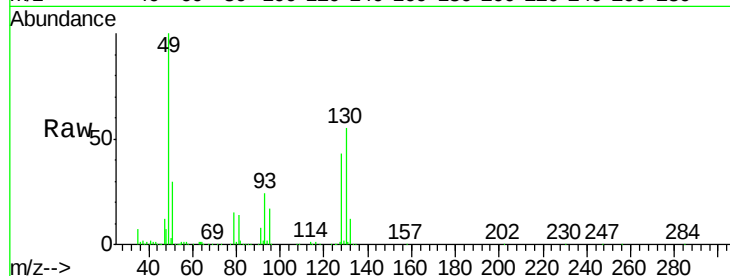
130 59.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/14/2021

Supervised By :Mahesh Dadoda 04/14/2021



#9

Propene

Concen: 8.189 ppbv

RT: 3.01 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL036802.D

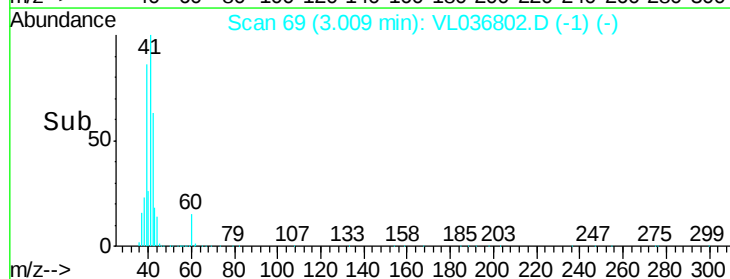
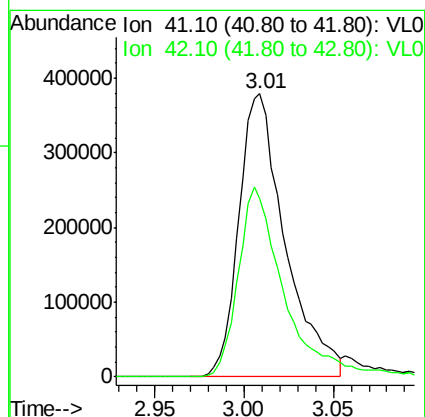
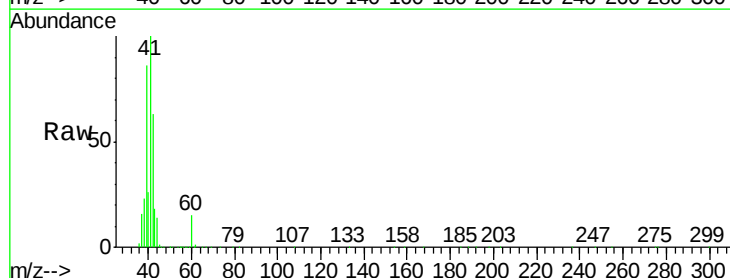
Acq: 13 Apr 2021 14:23

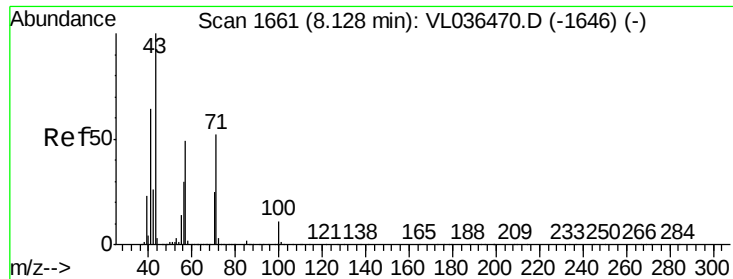
Tgt Ion: 41 Resp: 685530

Ion Ratio Lower Upper

41 100

42 67.0 57.0 85.4



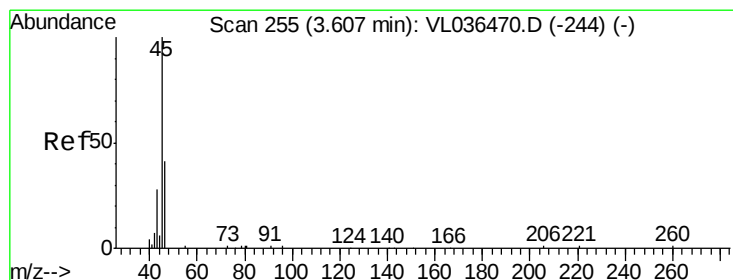
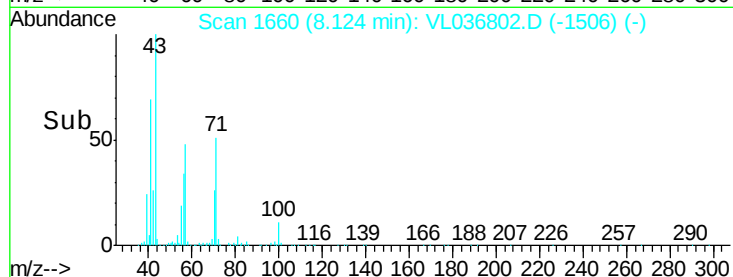
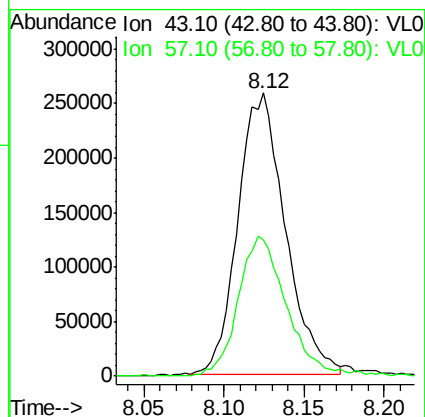
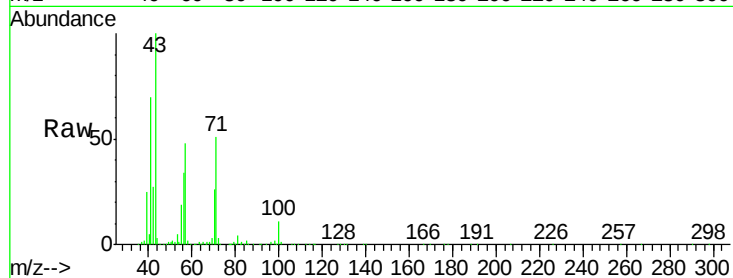


#10
Heptane
Concen: 2.441 ppbv
RT: 8.12
Delta R.T.: MSVOA_L
Lab File: ClientSampleId : SG2DL
Acq: 13 Apr 2021 14:23

Tot Ion:
Ion Ratio
43 100
57 51.

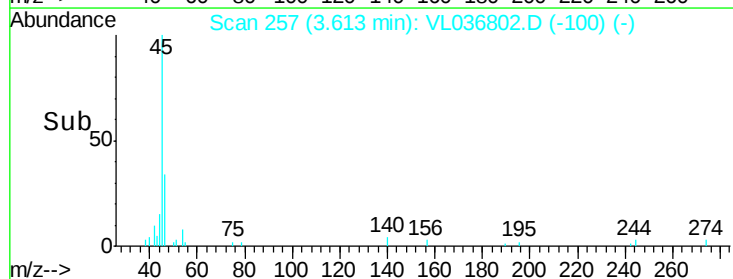
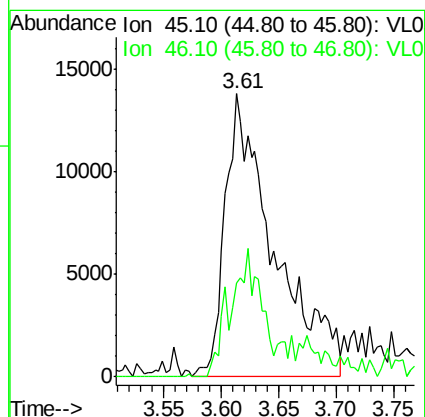
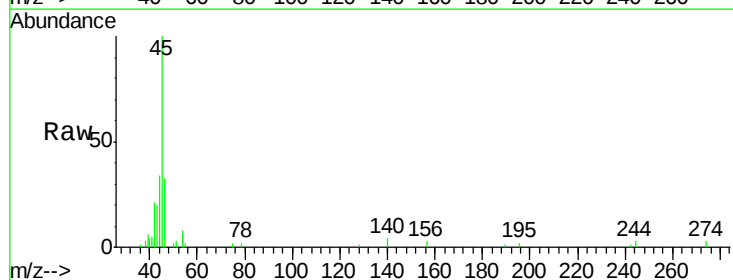
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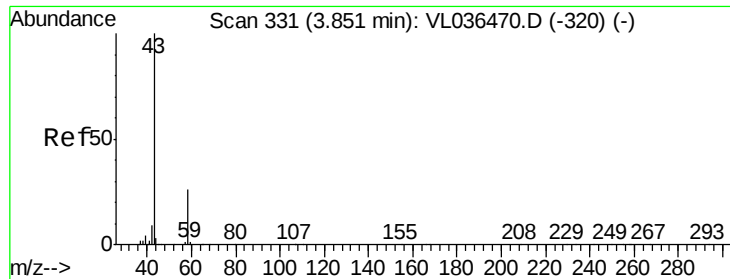
Reviewed By :Semsettin Yesilyurt 04/14/2021
Supervised By :Mahesh Dadoda 04/14/2021



#13
Ethanol
Concen: 4.107 ppbv m
RT: 3.61 min Scan# 257
Delta R.T.: 0.01 min
Lab File: VL036802.D
Acq: 13 Apr 2021 14:23

Tgt Ion: 45 Resp: 40936
Ion Ratio Lower Upper
45 100
46 0.0 16.6 66.2#



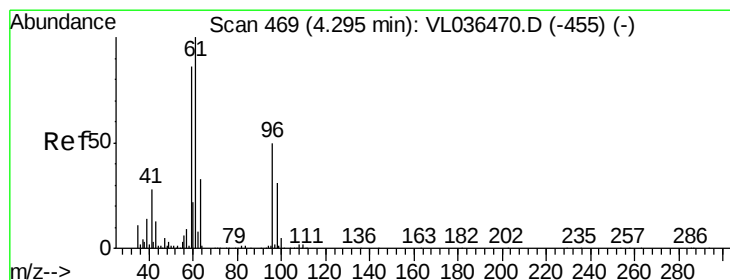
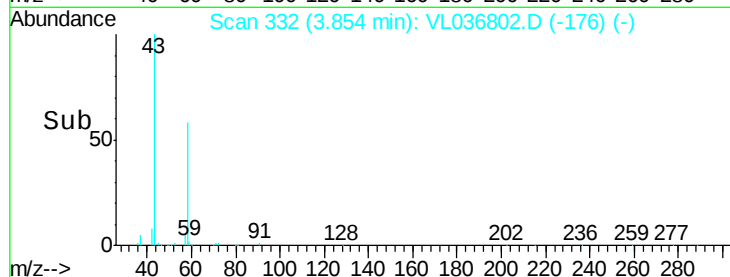
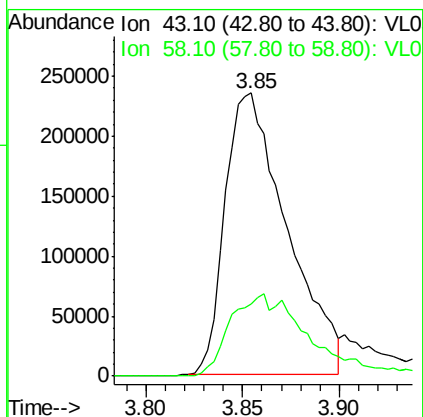
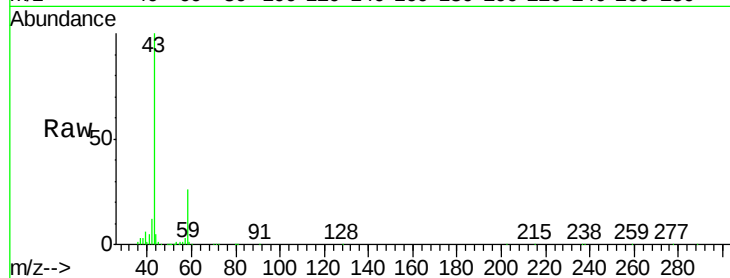


#15
Acetone
Concen: 3.774 ppbv
RT: 3.85
Delta R.T.: MSVOA_L
Lab File: ClientSampleId : SG2DL
Acq: 13 Apr 2021 14:23

Tot Ion:
Ion Ratio
43 100
58 38.

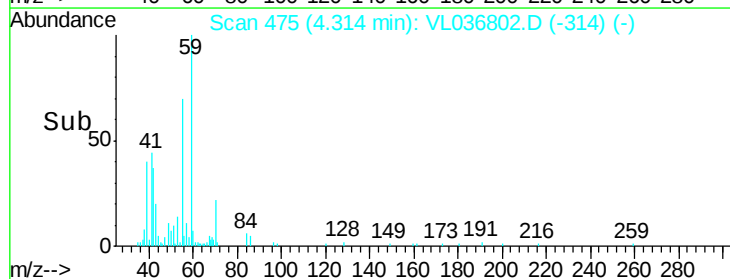
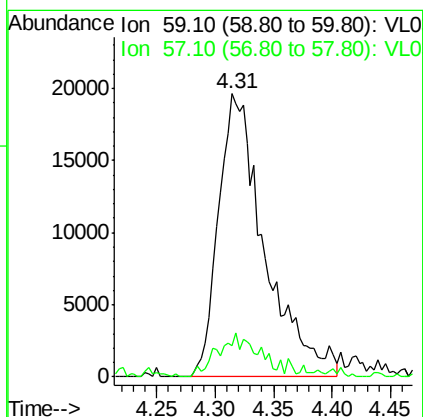
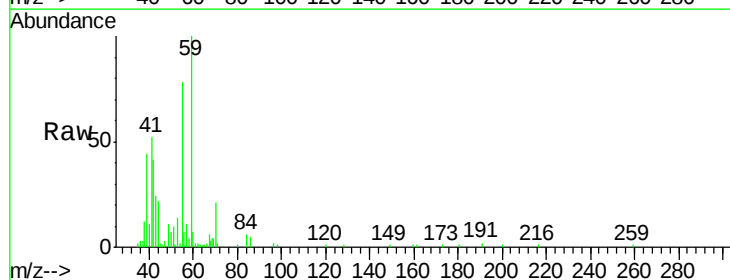
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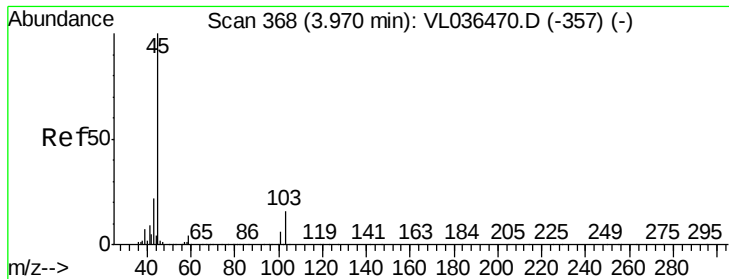
Reviewed By :Semsettin Yesilyurt 04/14/2021
Supervised By :Mahesh Dadoda 04/14/2021



#17
tert-Butyl alcohol
Concen: 0.448 ppbv m
RT: 4.31 min Scan# 475
Delta R.T.: 0.02 min
Lab File: VL036802.D
Acq: 13 Apr 2021 14:23

Tgt Ion: 59 Resp: 53902
Ion Ratio Lower Upper
59 100
57 16.3 8.6 12.8#





#19

Isopropyl Alcohol

Concen: 1.389 ppbv m

RT: 3.98

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 13 Apr 2021 14:23

Tot Ion:

Ion Ratio

45 100

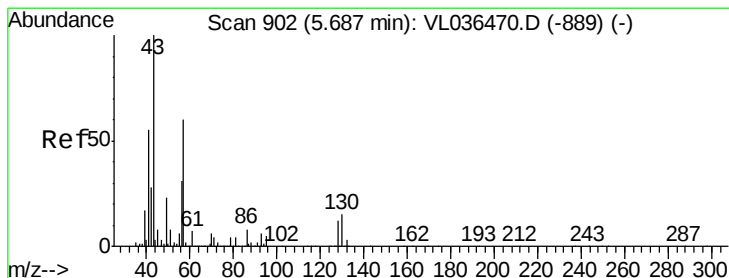
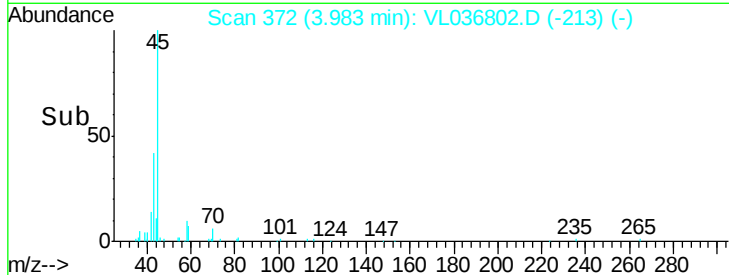
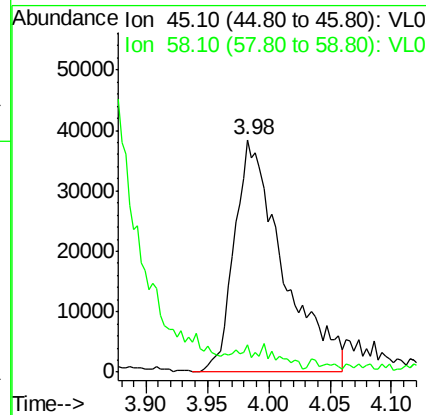
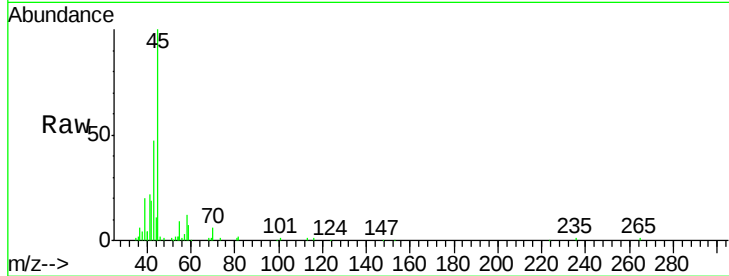
58 0.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/14/2021

Supervised By :Mahesh Dadoda 04/14/2021



#26

Hexane

Concen: 1.061 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.00 min

Lab File: VL036802.D

Acq: 13 Apr 2021 14:23

Tgt Ion: 57 Resp: 161948

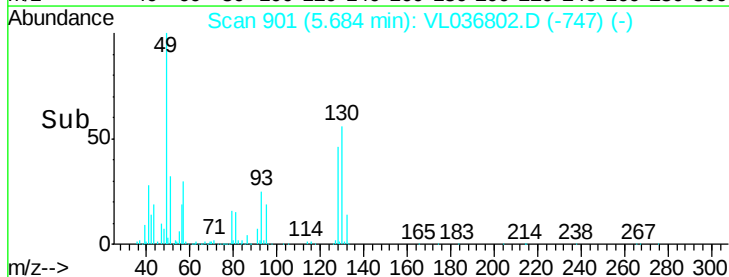
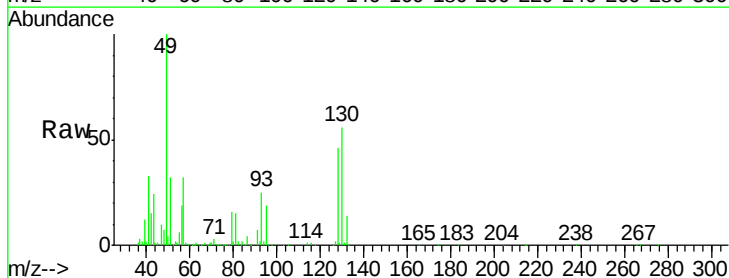
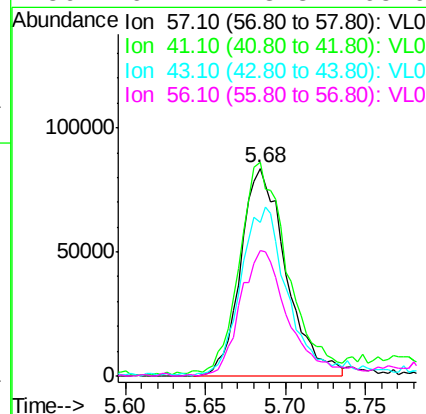
Ion Ratio Lower Upper

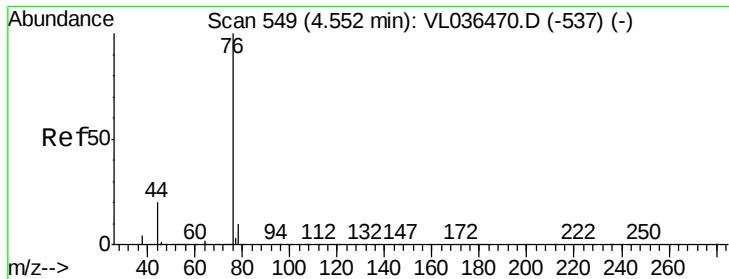
57 100

41 109.5 77.2 115.8

43 88.5 173.8 260.6#

56 64.4 43.8 65.6





#27

Carbon Disulfide

Concen: 2.698 ppbv

RT: 4.55 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SG2DL

Acq: 13 Apr 2021 14:23

Tot Ion:

Ion Ratio

76 100

44 23.

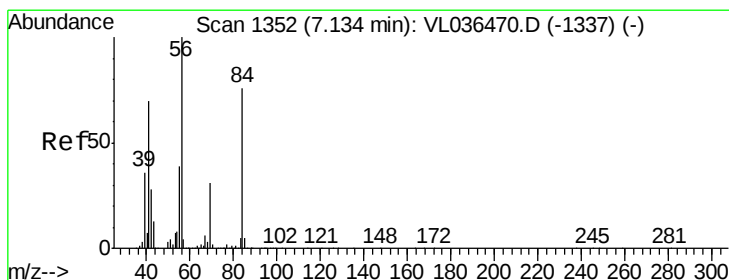
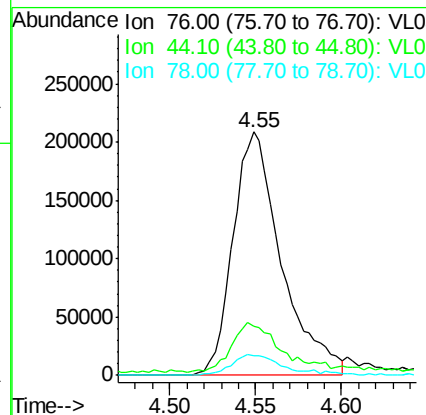
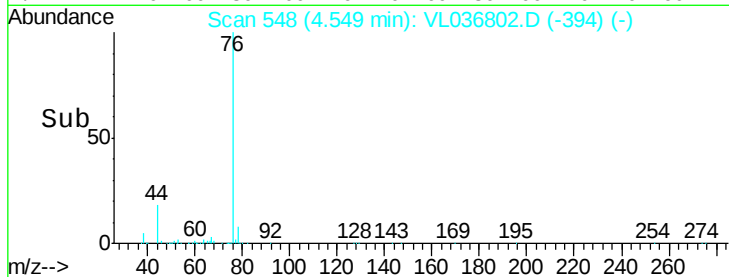
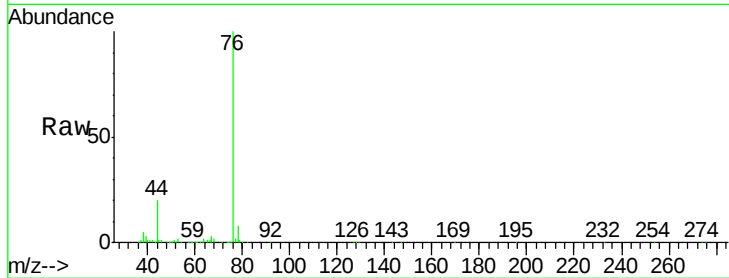
78 9.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/14/2021

Supervised By :Mahesh Dadoda 04/14/2021



#30

Cyclohexane

Concen: 0.404 ppbv m

RT: 7.13 min Scan# 1351

Delta R.T. -0.00 min

Lab File: VL036802.D

Acq: 13 Apr 2021 14:23

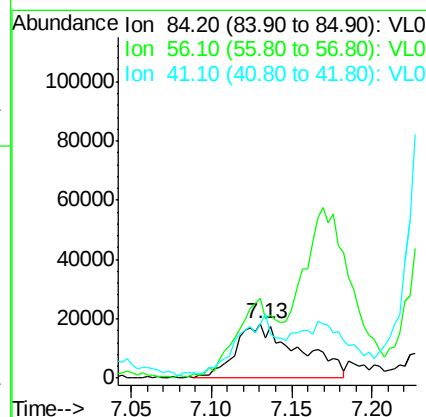
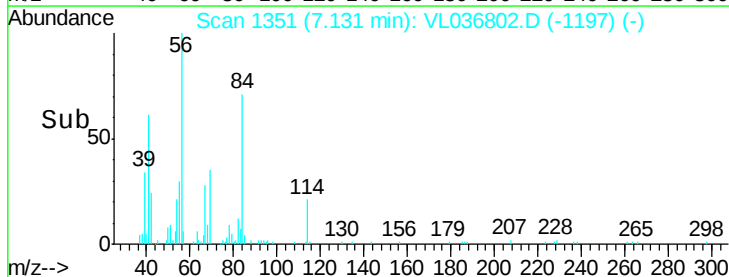
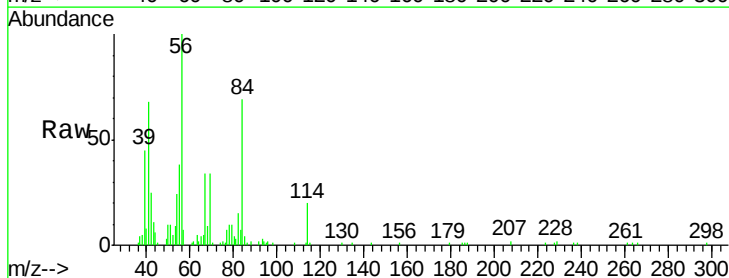
Tgt Ion: 84 Resp: 50052

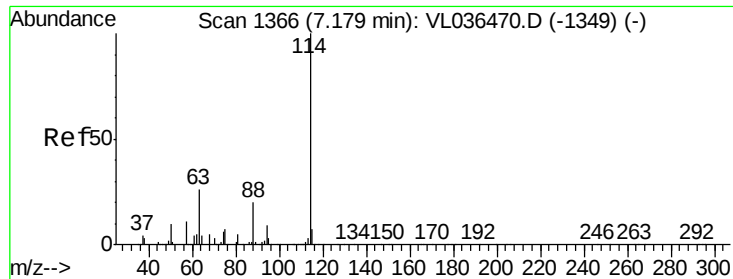
Ion Ratio Lower Upper

84 100

56 0.0 114.6 171.8#

41 0.0 75.3 112.9#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 13 Apr 2021 14:23

Tot Ion:1

Ion Rati

114 100

63 26.

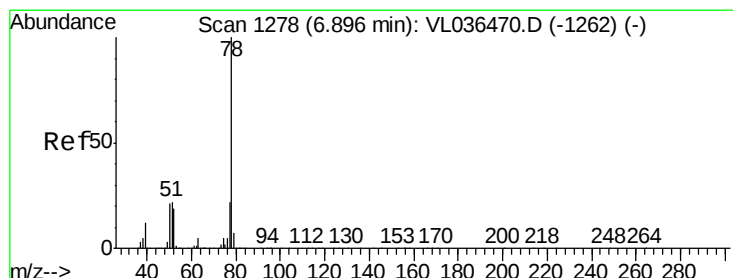
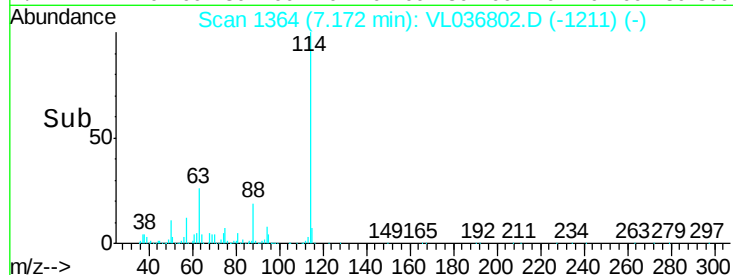
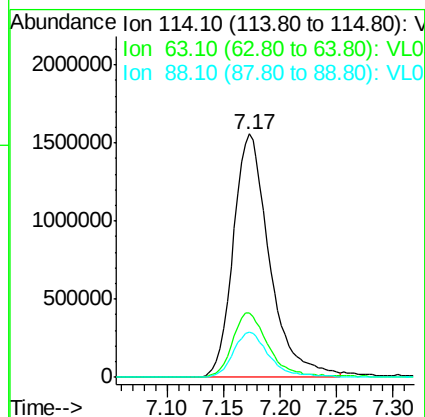
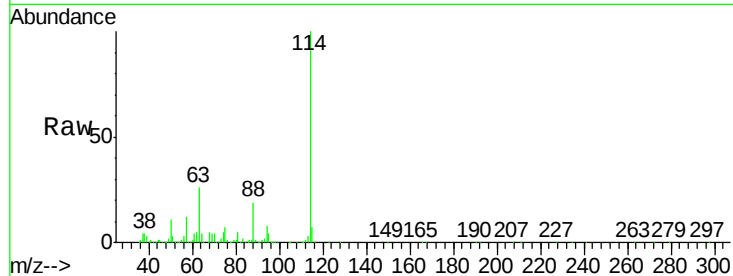
88 18.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/14/2021

Supervised By :Mahesh Dadoda 04/14/2021



#36

Benzene

Concen: 0.658 ppbv

RT: 6.89 min Scan# 1275

Delta R.T. -0.01 min

Lab File: VL036802.D

Acq: 13 Apr 2021 14:23

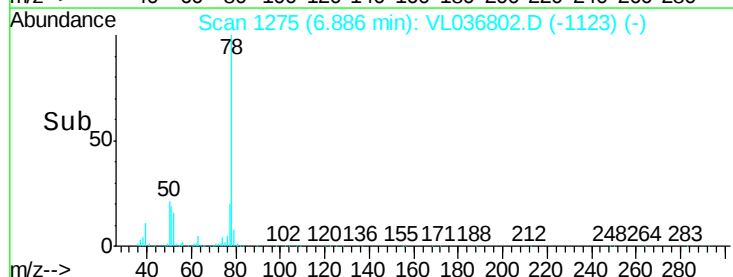
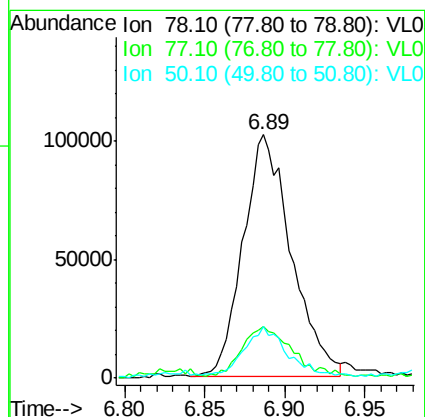
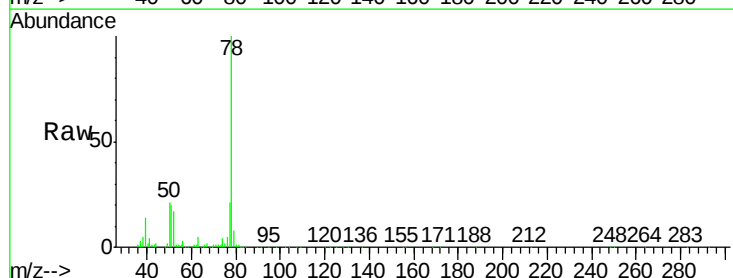
Tgt Ion: 78 Resp: 211081

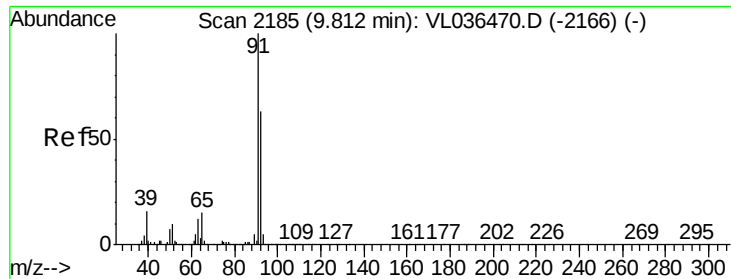
Ion Ratio Lower Upper

78 100

77 19.6 18.0 27.0

50 20.3 16.5 24.7



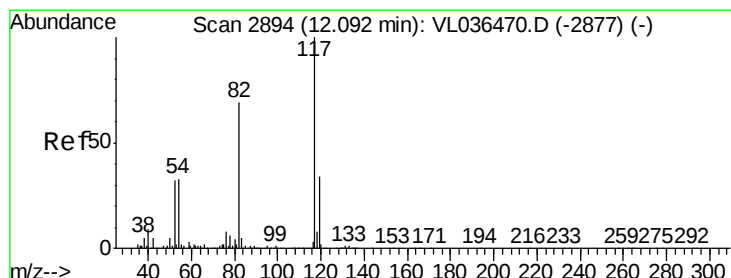
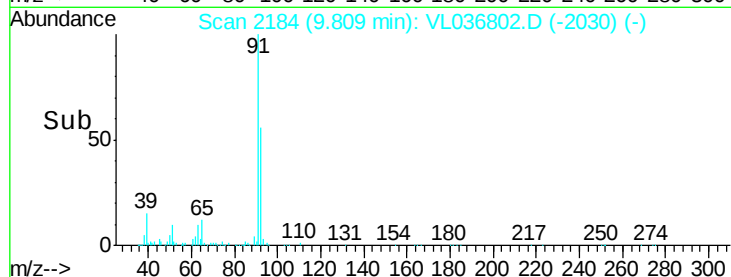
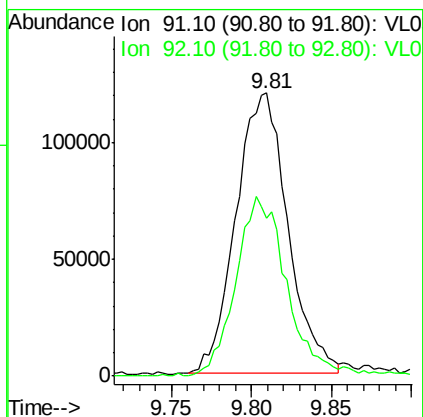
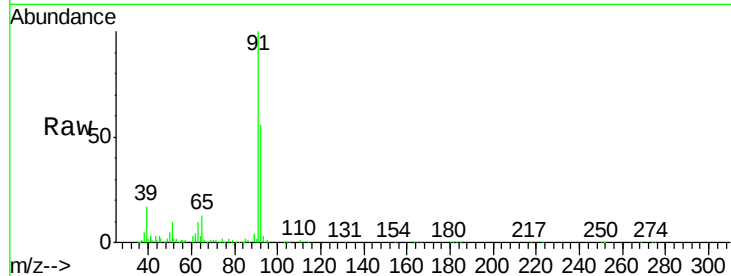


#53
Toluene
Concen: 0.784 ppbv
RT: 9.81 min
Delta R.T.: MSVOA_L
Lab File: ClientSampleId : SG2DL
Acq: 13 Apr 2021 14:23

Tot Ion:
Ion Ratio
91 100
92 63.

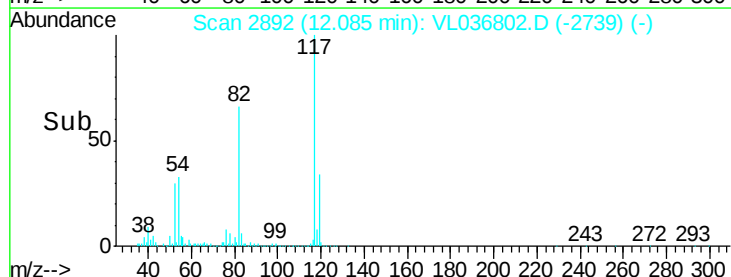
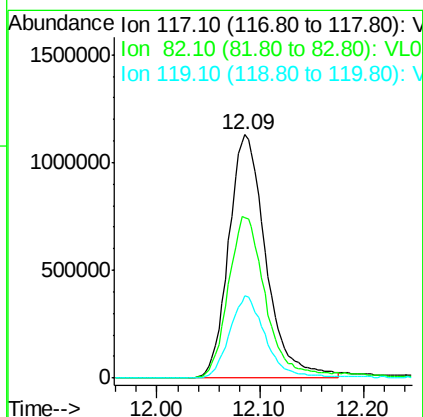
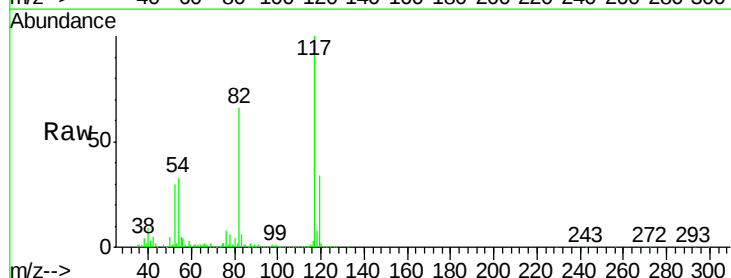
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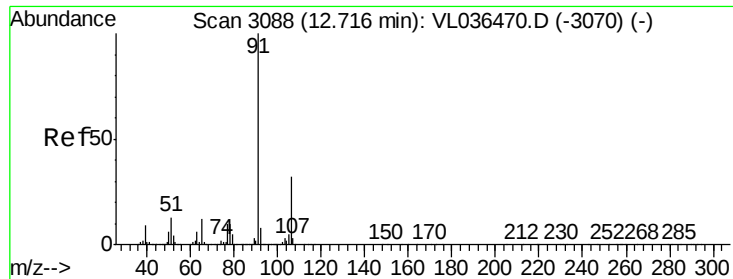
Reviewed By :Semsettin Yesilyurt 04/14/2021
Supervised By :Mahesh Dadoda 04/14/2021



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2892
Delta R.T.: -0.01 min
Lab File: VL036802.D
Acq: 13 Apr 2021 14:23

Tgt Ion:117 Resp: 2837343
Ion Ratio Lower Upper
117 100
82 69.3 57.4 86.0
119 33.6 47.4 71.0#





#58

Ethyl Benzene

Concen: 0.137 ppbv m

RT: 12.71 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 13 Apr 2021 14:23

Tot Ion:

Ion Ratio

91 100

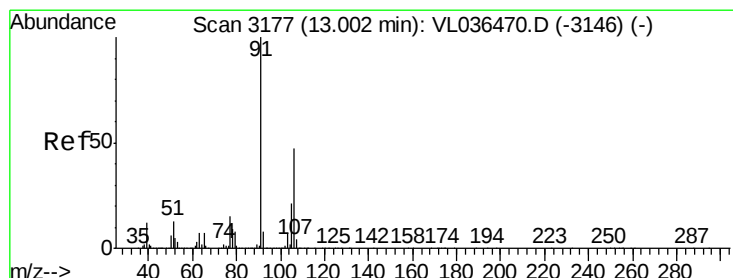
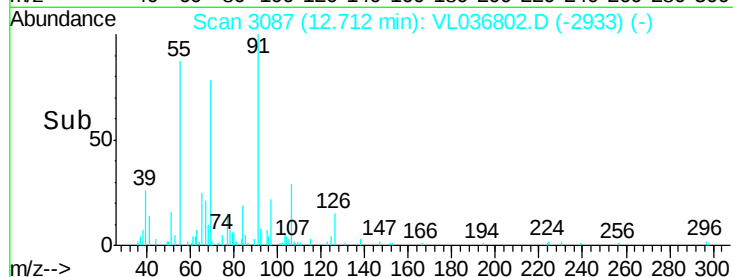
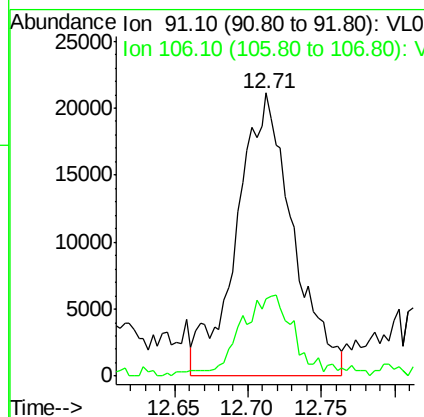
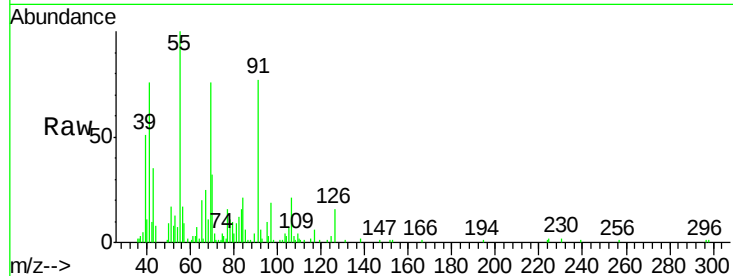
106 27.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/14/2021

Supervised By :Mahesh Dadoda 04/14/2021



#59

m/p-Xylene

Concen: 0.334 ppbv m

RT: 12.97 min Scan# 3168

Delta R.T. -0.03 min

Lab File: VL036802.D

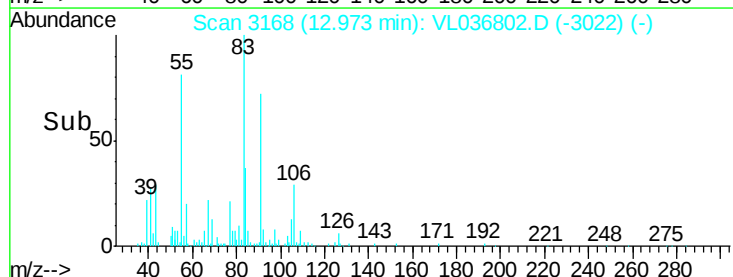
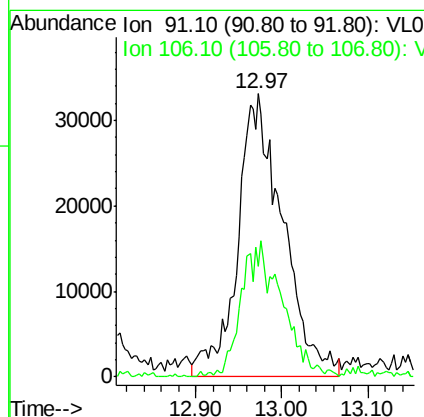
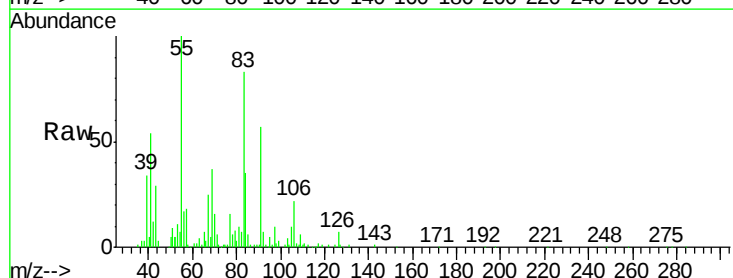
Acq: 13 Apr 2021 14:23

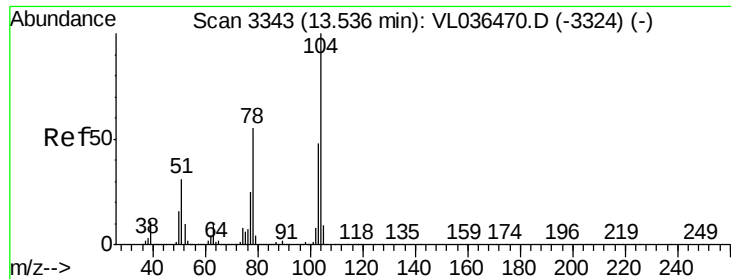
Tgt Ion: 91 Resp: 120340

Ion Ratio Lower Upper

91 100

106 0.0 35.3 52.9#



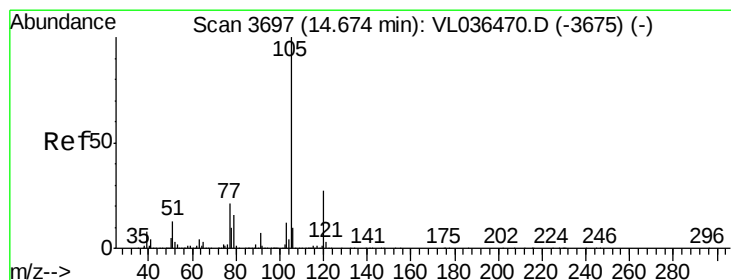
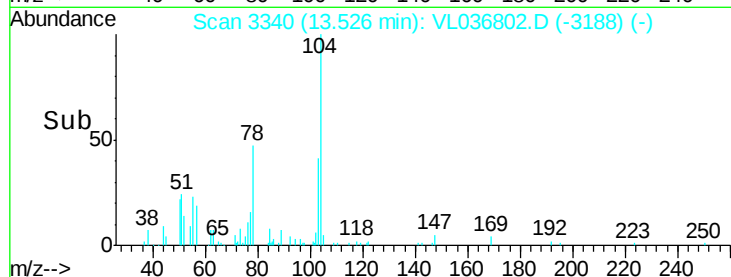
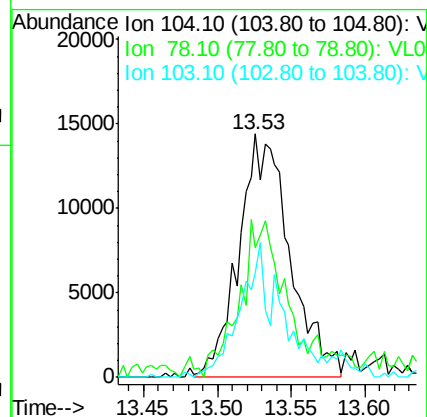
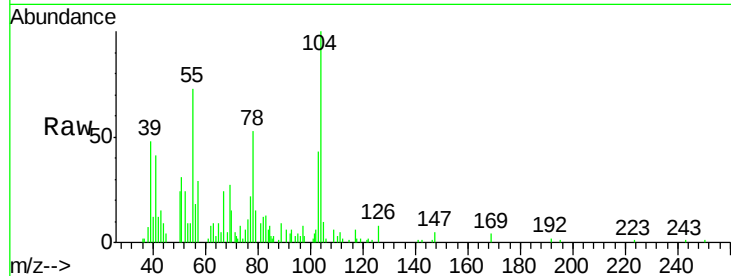


#61
Stvrene
Concen: 0.197 ppbv m
RT: 13.53
Instrument : MSVOA_L
Delta R.T. :
Lab File: ClientSampleId :
Acq: 13 Apr 2021 14:23

Tot Ion:1
Ion Rati
104 100
78 0.
103 48.

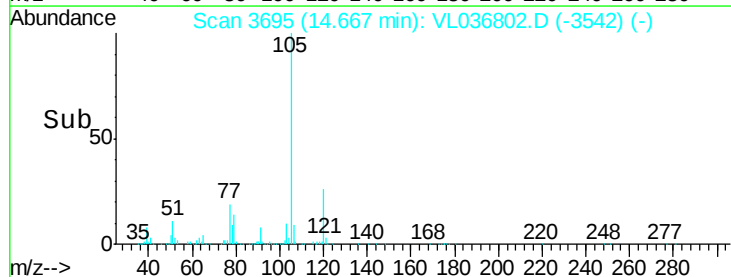
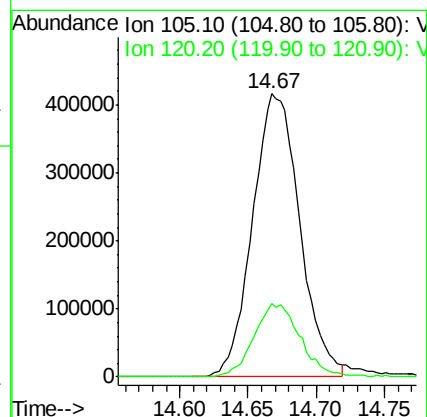
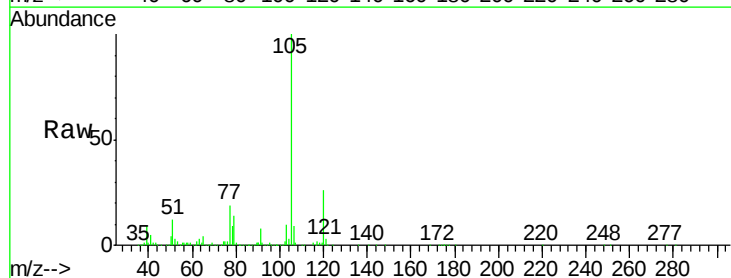
Manual Integrations
APPROVED

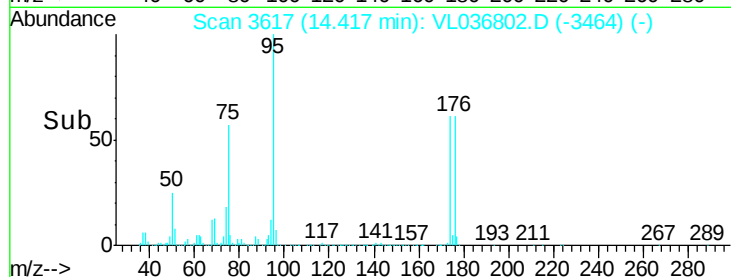
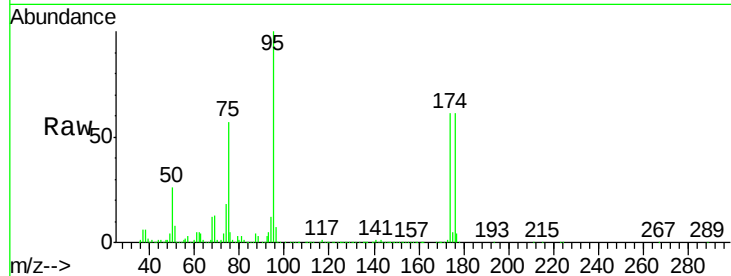
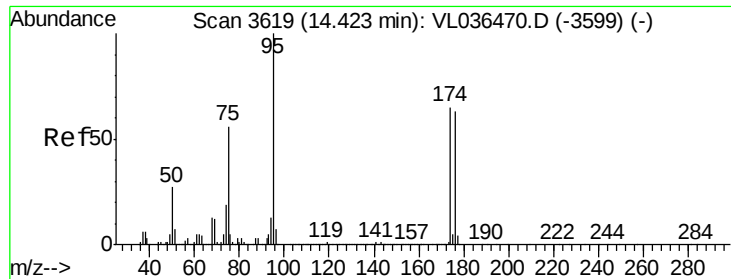
Reviewed By :Semsettin Yesilyurt 04/14/2021
Supervised By :Mahesh Dadoda 04/14/2021



#62
Isopropylbenzene
Concen: 2.132 ppbv
RT: 14.67 min Scan# 3695
Delta R.T. -0.01 min
Lab File: VL036802.D
Acq: 13 Apr 2021 14:23

Tgt Ion:105 Resp: 999622
Ion Ratio Lower Upper
105 100
120 26.1 20.6 31.0





#68

1-Bromo-4-Fluorobenzene

Concen: 8.300 ppbv

RT: 14.42

Delta R.T

Lab File: ClientSampleId :

Acq: 13 Apr 2021 14.25

Tot Ion:

Ion Ratio

95 100

174 66.

175 4.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/14/2021

Supervised By :Mahesh Dadoda 04/14/2021

