

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032521\
 Data File : VL036481.D
 Acq On : 25 Mar 2021 11:34
 Operator : SY/AP
 Sample : M1801-04DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 IA1DUP

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/26/2021
 Supervised By : Mahesh Dadoda 03/29/2021

Quant Time: Mar 28 23:07:14 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	1386032	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3287613	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2967364	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2311913	9.78	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.80%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.04	85	43234	0.191	ppbv	99
3) Chlorodifluoromethane	2.98	51	293331m	1.133	ppbv	
4) Chloromethane	3.13	50	61107	0.668	ppbv	95
9) Propene	3.02	41	298054m	3.610	ppbv	
10) Heptane	8.12	43	47571m	0.226	ppbv	
11) Trichlorofluoromethane	3.94	101	50159	0.218	ppbv #	73
13) Ethanol	3.61	45	2193438	223.114	ppbv	94
15) Acetone	3.84	43	1099541	8.060	ppbv	98
19) Isopropyl Alcohol	3.98	45	542559	7.230	ppbv	99
20) Methylene Chloride	4.34	84	1738949	27.226	ppbv	94
26) Hexane	5.68	57	1100562	7.312	ppbv #	49
29) Chloroform	5.75	83	40849m	0.170	ppbv	
30) Cyclohexane	7.12	84	37038m	0.303	ppbv	
31) cis-1,2-Dichloroethene	5.54	61	14326m	0.098	ppbv	
34) 2-Butanone	5.24	43	96441	0.601	ppbv #	85
35) Carbon Tetrachloride	7.01	117	15510m	0.061	ppbv	
36) Benzene	6.89	78	78403m	0.259	ppbv	
38) Trichloroethene	7.83	130	7036m	0.060	ppbv	
44) 2,2,4-Trimethylpentane	7.86	57	205474	0.385	ppbv #	77
52) Tetrachloroethene	11.22	164	197806m	1.772	ppbv	
53) Toluene	9.80	91	724109	2.243	ppbv	99
58) Ethyl Benzene	12.70	91	113823m	0.264	ppbv	
59) m/p-Xylene	12.96	91	478458	1.271	ppbv	99
60) o-Xylene	13.69	91	135140	0.371	ppbv	97
74) 1,2,4-Trimethylbenzene	16.76	105	125690m	0.315	ppbv	

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

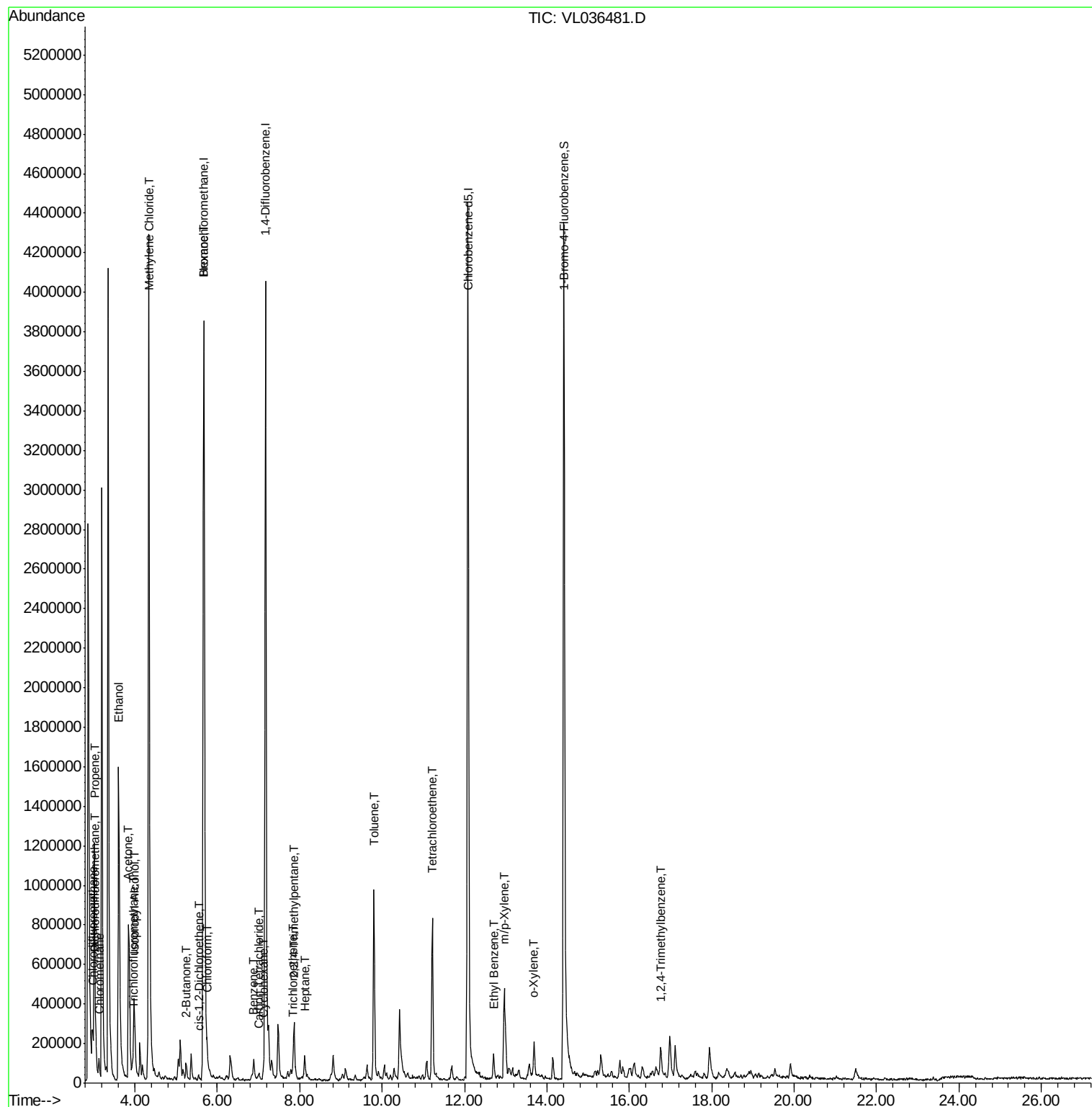
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032521\
Data File : VL036481.D
Acq On : 25 Mar 2021 11:34
Operator : SY/AP
Sample : M1801-04DUP
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

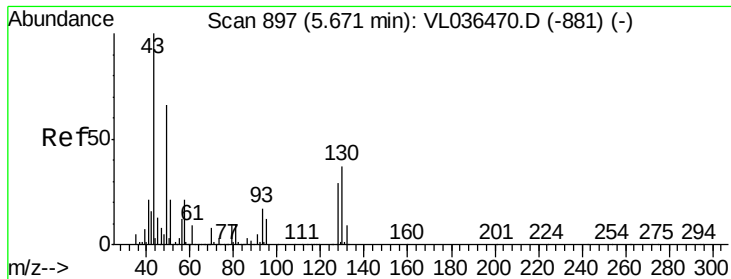
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Quant Time: Mar 28 23:07:14 2021
Quant Method : Z:\V0ASRV\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

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/26/2021
Supervised By :Mahesh Dadoda 03/29/2021





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 25 Mar 2021 11:34

Tot Ion:

Ion Ratio

49 100

128 46.

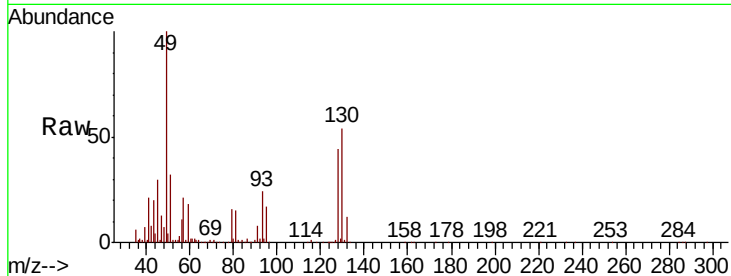
130 58.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/26/2021

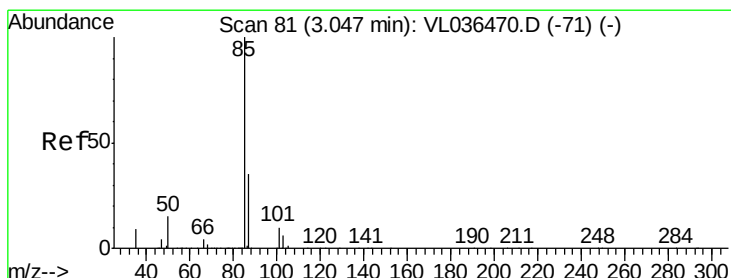
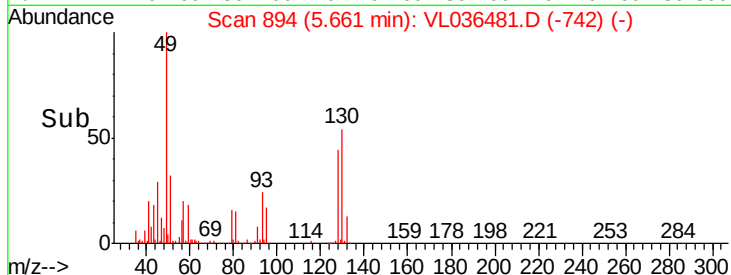
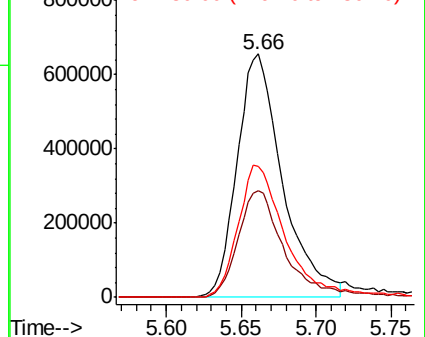
Supervised By :Mahesh Dadoda 03/29/2021



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.191 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.00 min

Lab File: VL036481.D

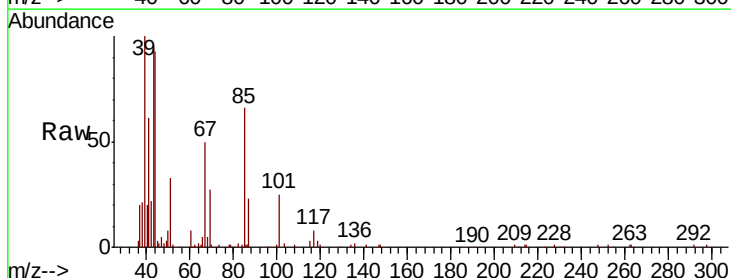
Acq: 25 Mar 2021 11:34

Tgt Ion: 85 Resp: 43234

Ion Ratio Lower Upper

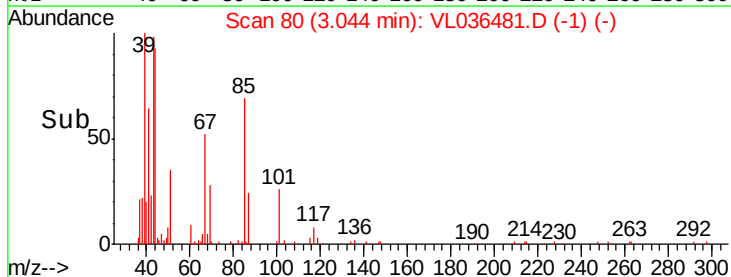
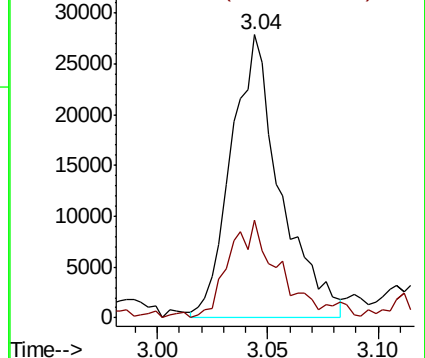
85 100

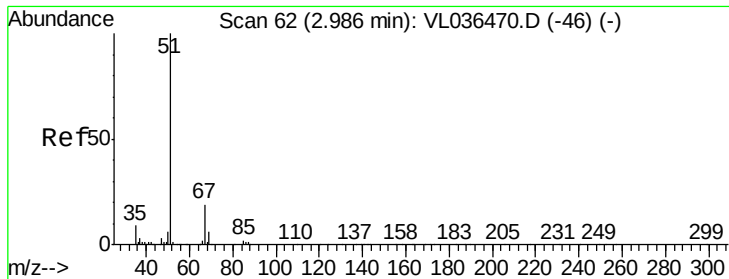
87 35.2 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.133 ppbv

RT: 2.98

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 25 Mar 2021 11:34

Tot Ion:

Ion Ratio

51 100

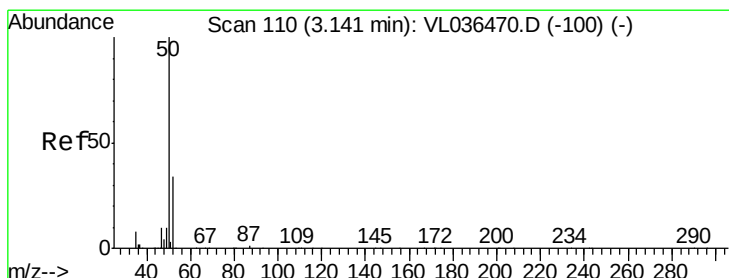
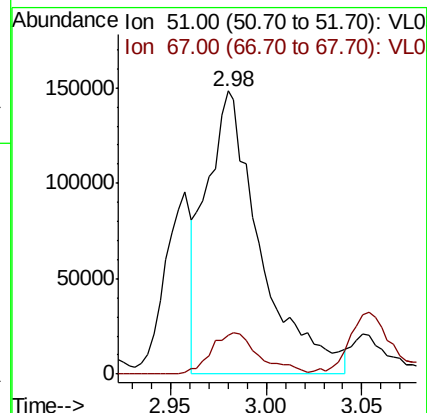
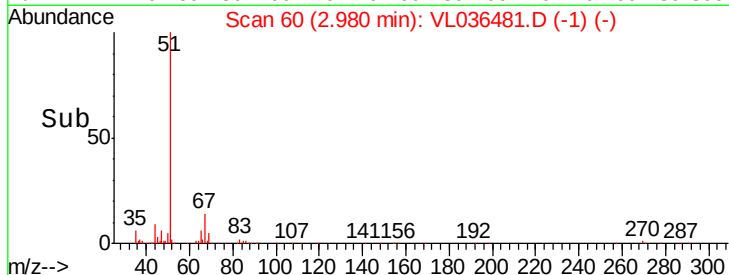
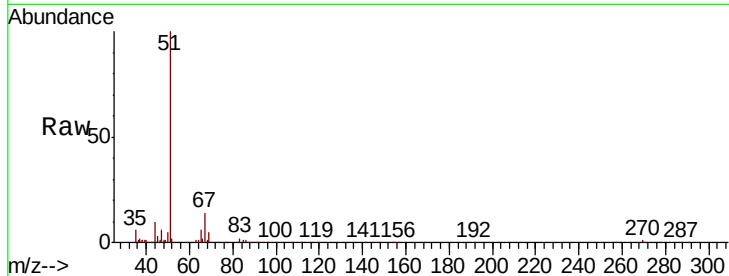
67 12.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/26/2021

Supervised By :Mahesh Dadoda 03/29/2021



#4

Chloromethane

Concen: 0.668 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL036481.D

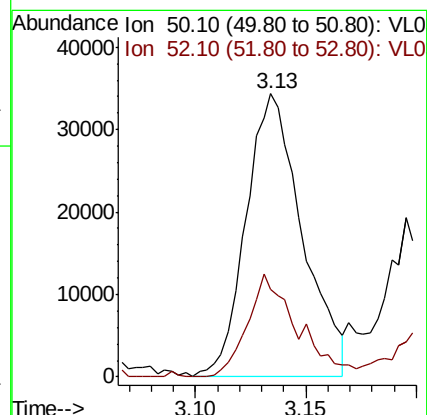
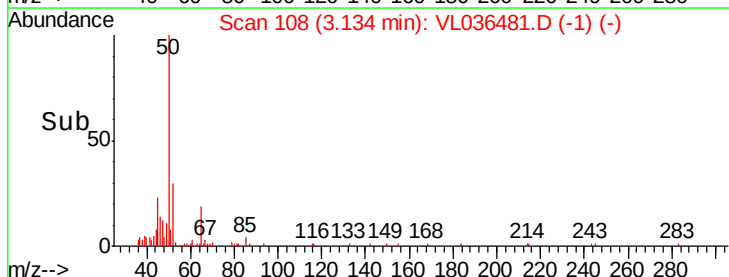
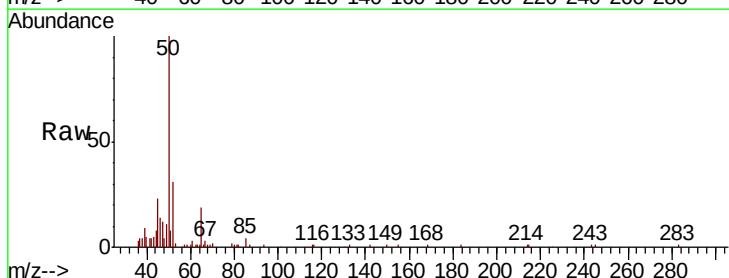
Acq: 25 Mar 2021 11:34

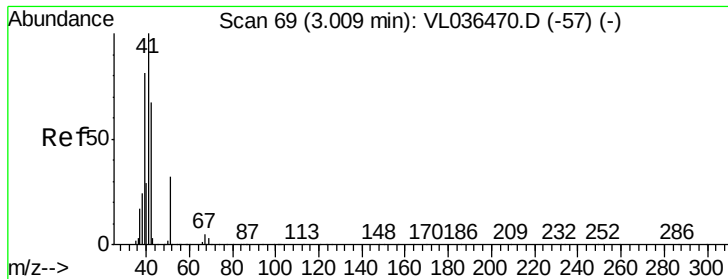
Tgt Ion: 50 Resp: 61107

Ion Ratio Lower Upper

50 100

52 31.0 27.0 40.6





#9

Propene

Concen: 3.610 ppbv m

RT: 3.02

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 25 Mar 2021 11:34

Tot Ion:

Ion Ratio

41 100

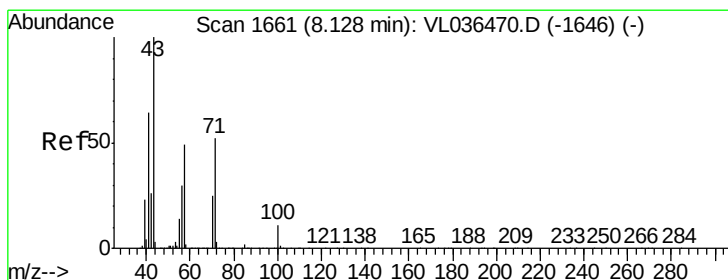
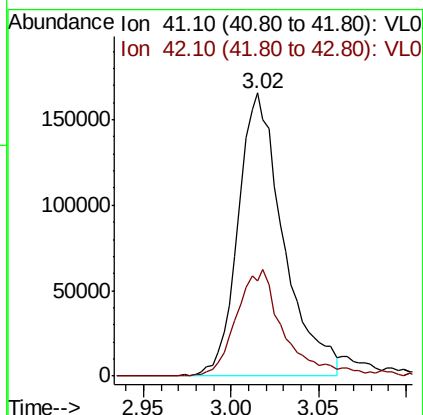
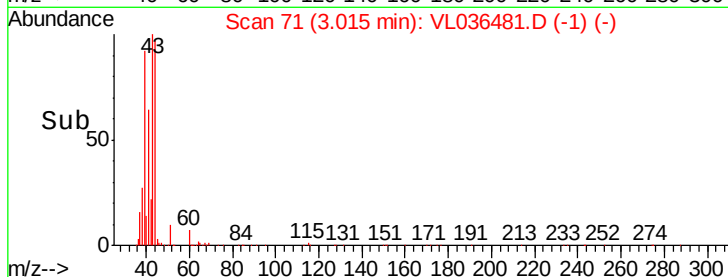
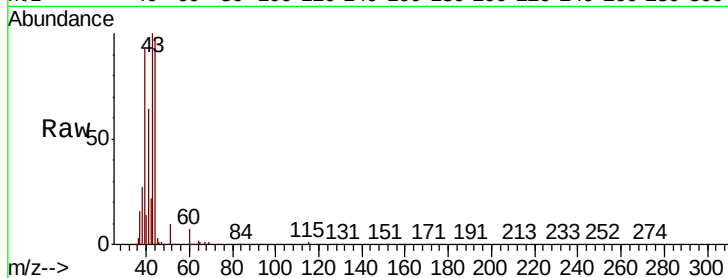
42 240.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/26/2021

Supervised By :Mahesh Dadoda 03/29/2021



#10

Heptane

Concen: 0.226 ppbv m

RT: 8.12 min Scan# 1659

Delta R.T. -0.01 min

Lab File: VL036481.D

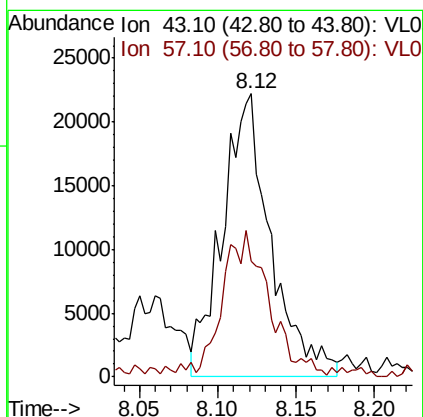
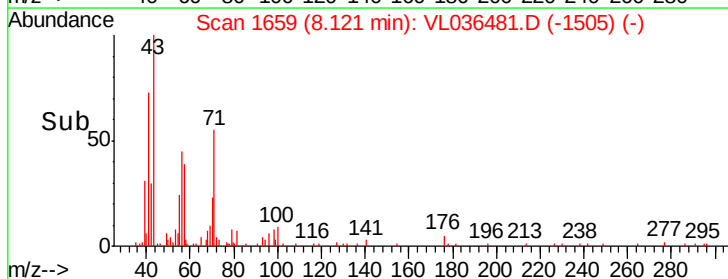
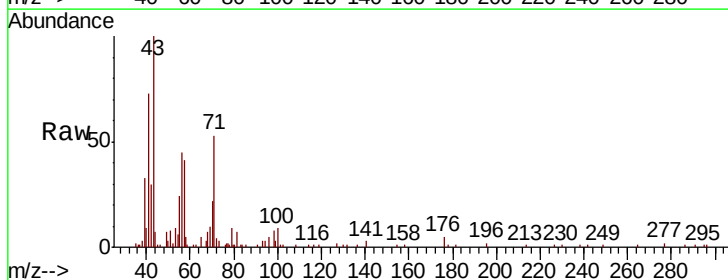
Acq: 25 Mar 2021 11:34

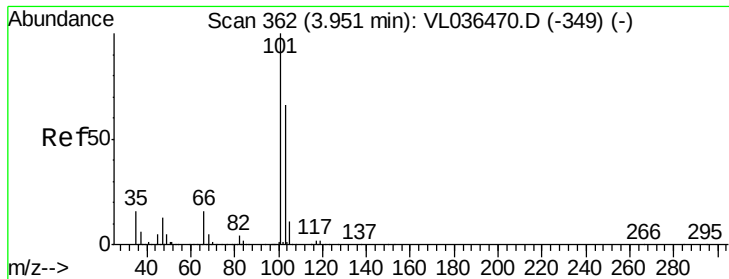
Tgt Ion: 43 Resp: 47571

Ion Ratio Lower Upper

43 100

57 0.0 39.0 58.6#





#11

Trichlorofluoromethane

Concen: 0.218 ppbv

RT: 3.94 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2021 11:34

Tot Ion:1

Ion Ratio

101 100

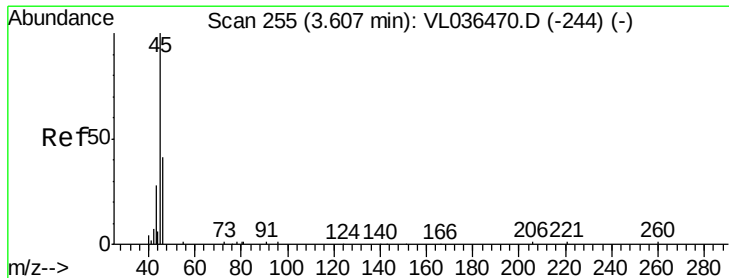
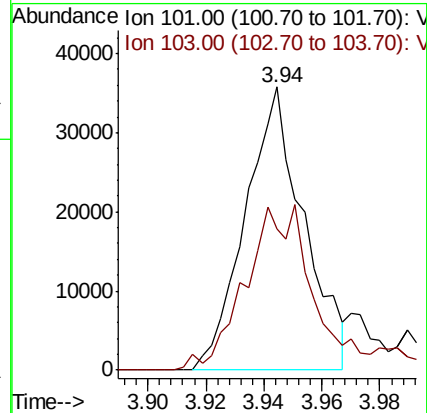
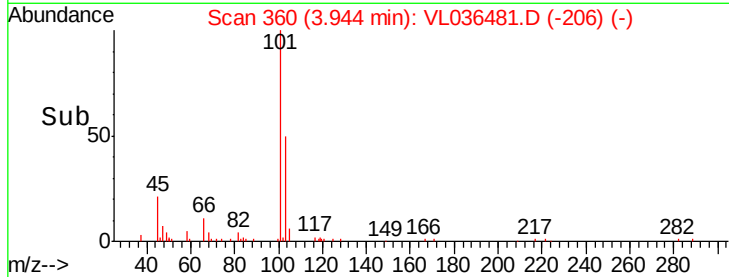
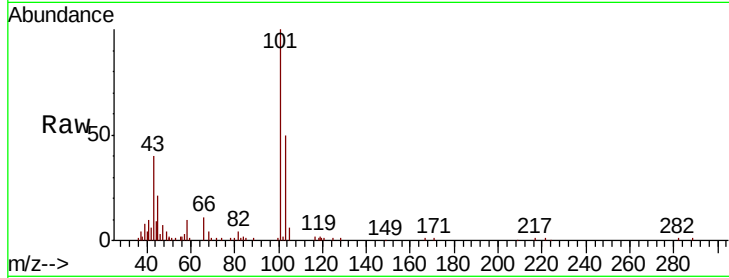
103 44.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/26/2021

Supervised By :Mahesh Dadoda 03/29/2021



#13

Ethanol

Concen: 223.114 ppbv

RT: 3.61 min Scan# 256

Delta R.T. 0.00 min

Lab File: VL036481.D

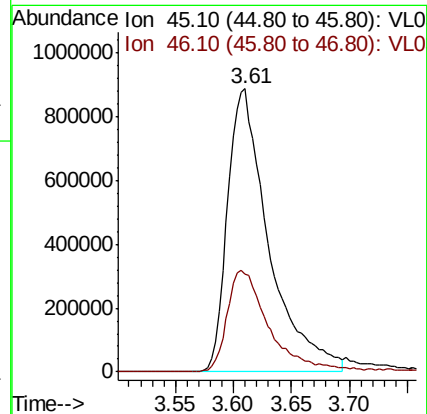
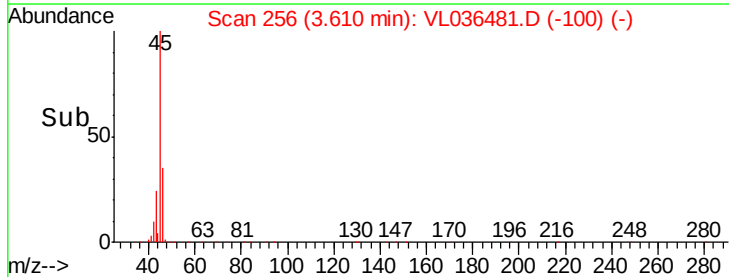
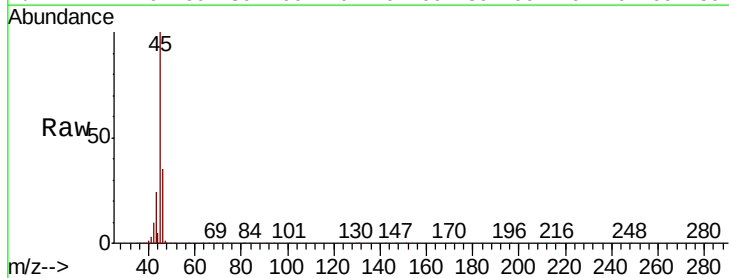
Acq: 25 Mar 2021 11:34

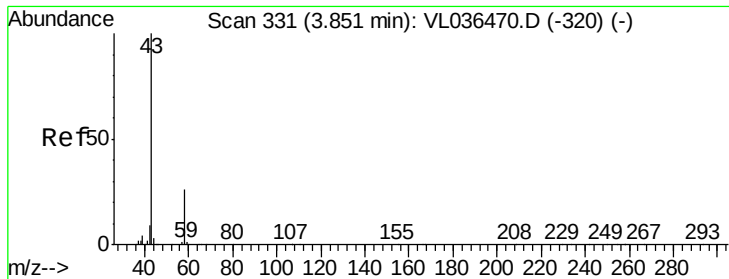
Tgt Ion: 45 Resp: 2193438

Ion Ratio Lower Upper

45 100

46 37.8 16.6 66.2



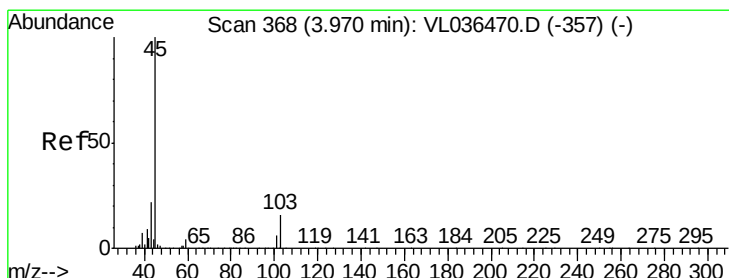
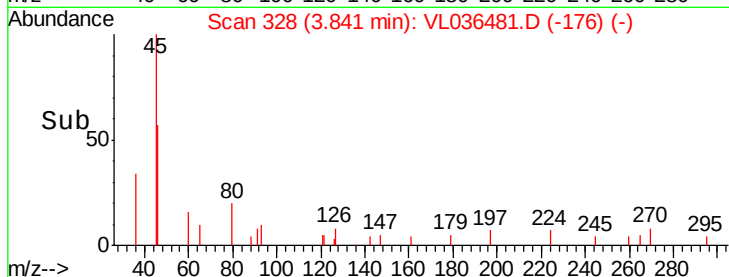
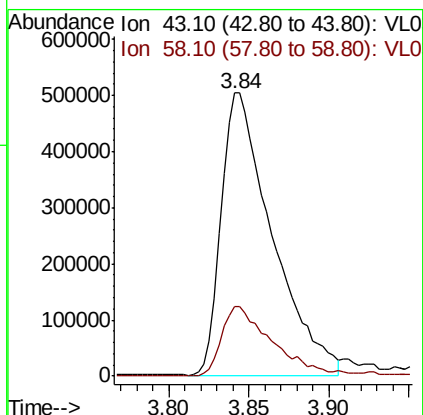
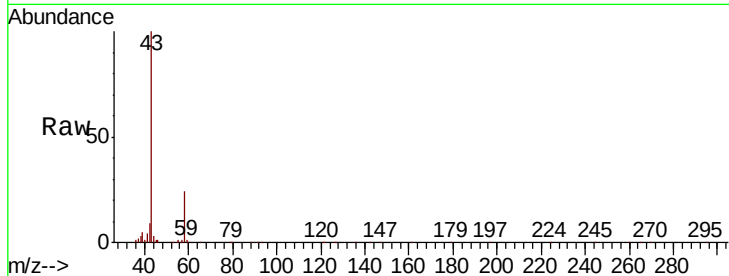


#15
Acetone
Concen: 8.060 ppbv
RT: 3.84
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 25 Mar 2021 11:34

Tot Ion:
Ion Ratio
43 100
58 25.

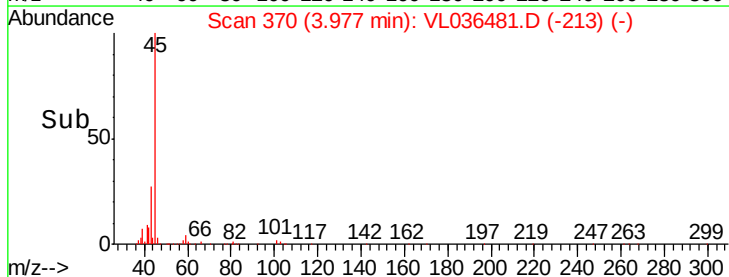
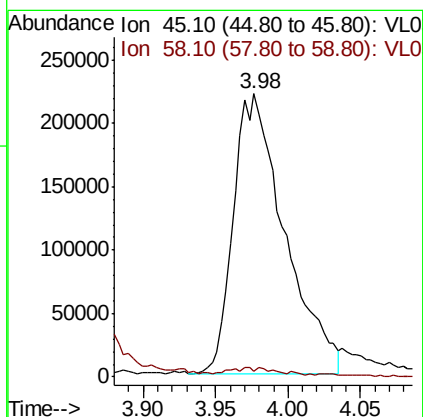
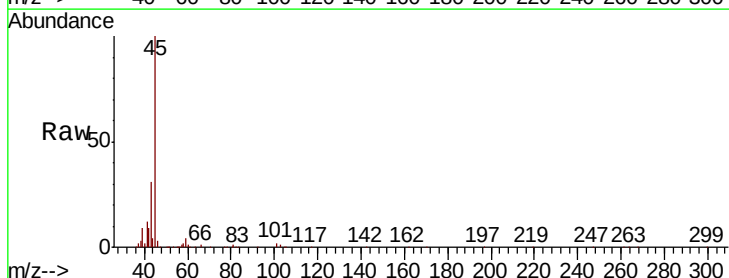
Manual Integrations
APPROVED

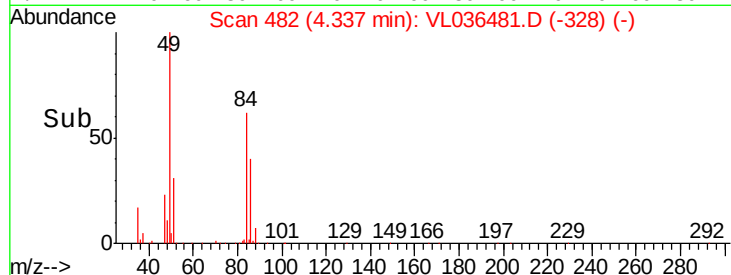
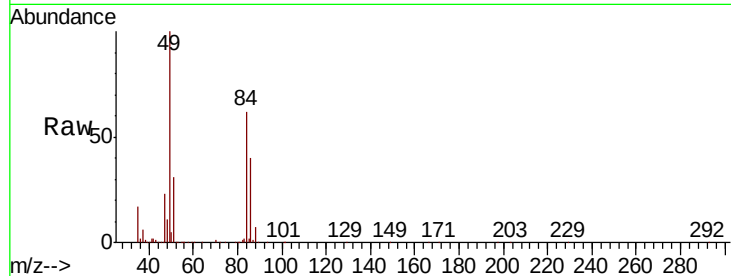
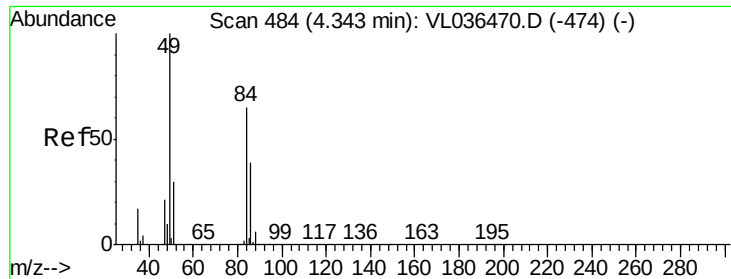
Reviewed By :Semsettin Yesilyurt 03/26/2021
Supervised By :Mahesh Dadoda 03/29/2021



#19
Isopropyl Alcohol
Concen: 7.230 ppbv
RT: 3.98 min Scan# 370
Delta R.T. 0.01 min
Lab File: VL036481.D
Acq: 25 Mar 2021 11:34

Tgt Ion: 45 Resp: 542559
Ion Ratio Lower Upper
45 100
58 3.1 2.9 4.3



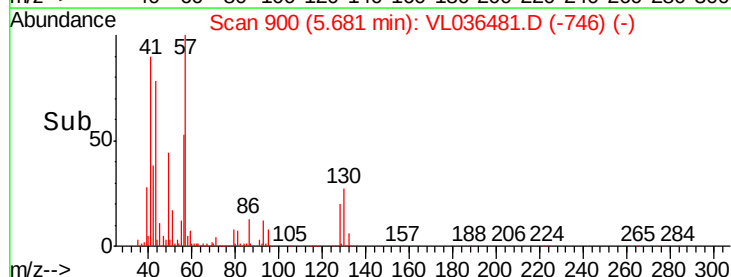
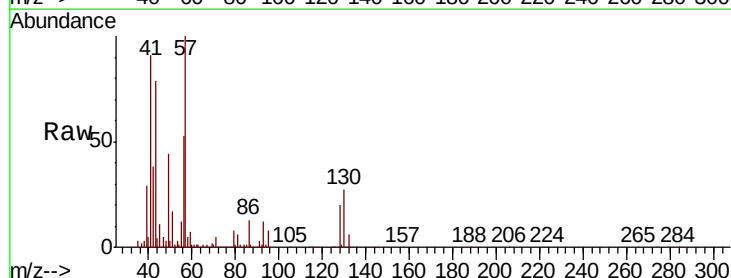
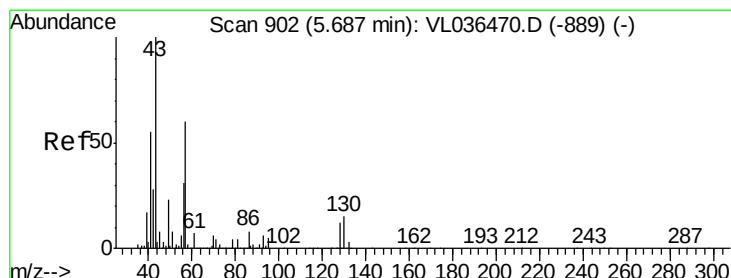
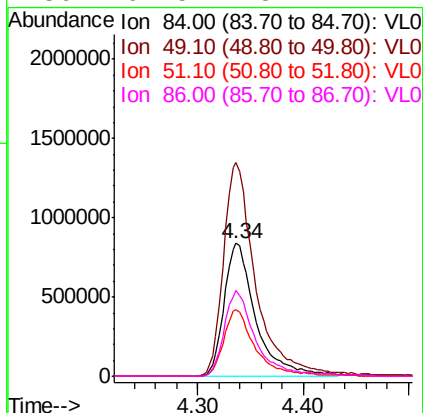


#20
Methylene Chloride
Concen: 27.226 ppbv
RT: 4.34
Instrument : MSVOA_1
Delta R.T. :
Lab File: ClientSampleId :
Acq: 25 Mar 2021 11:34

Tot Ion:
Ion Ratio
84 100
49 161.
51 50.
86 64.5 48.2 72.4

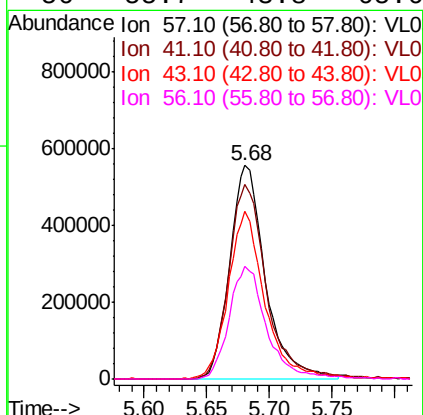
Manual Integrations
APPROVED

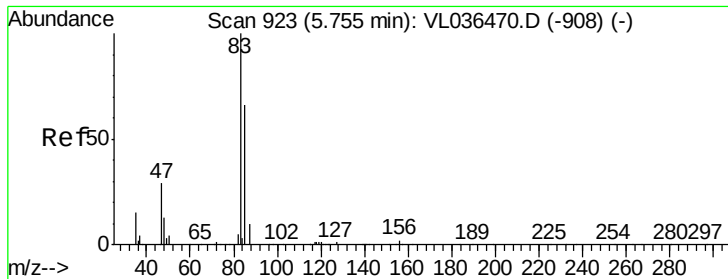
Reviewed By :Semsettin Yesilyurt 03/26/2021
Supervised By :Mahesh Dadoda 03/29/2021



#26
Hexane
Concen: 7.312 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.01 min
Lab File: VL036481.D
Acq: 25 Mar 2021 11:34

Tgt Ion: 57 Resp: 1100562
Ion Ratio Lower Upper
57 100
41 97.3 77.2 115.8
43 81.3 173.8 260.6#
56 55.7 43.8 65.6



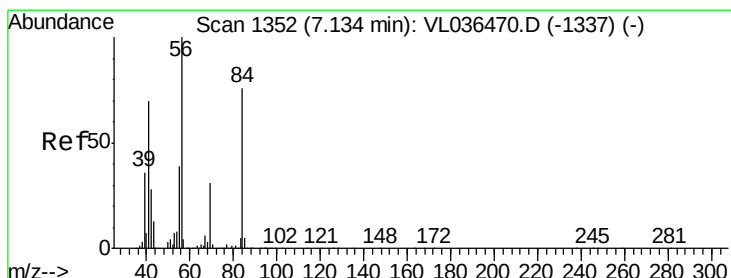
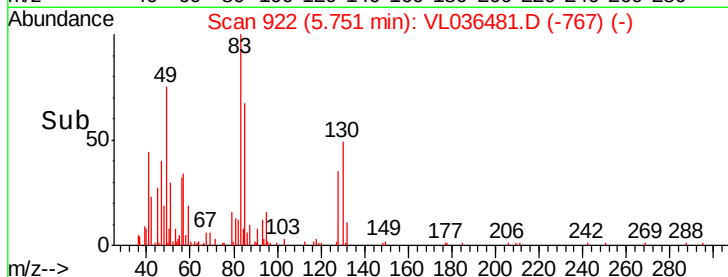
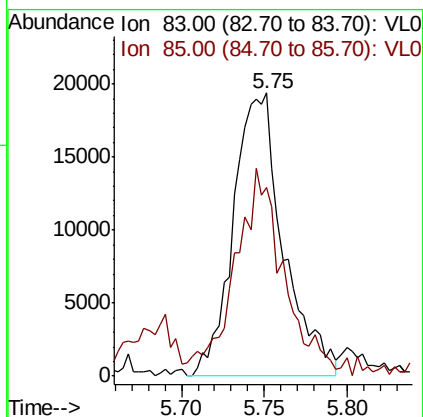
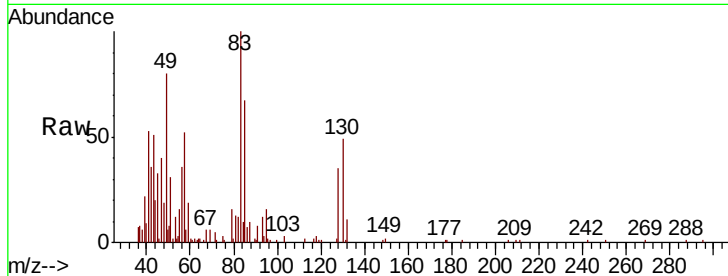


#29
Chloroform
Concen: 0.170 ppbv m
RT: 5.75
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
Acq: 25 Mar 2021 11:34

Tot Ion:
Ion Ratio
83 100
85 66.

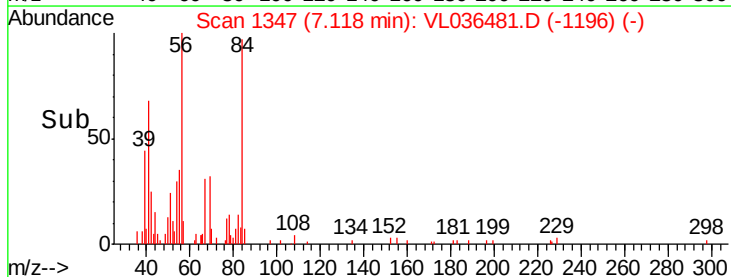
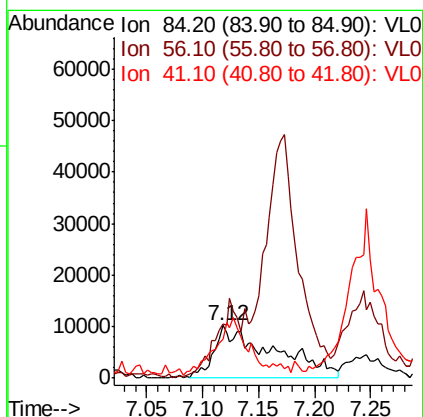
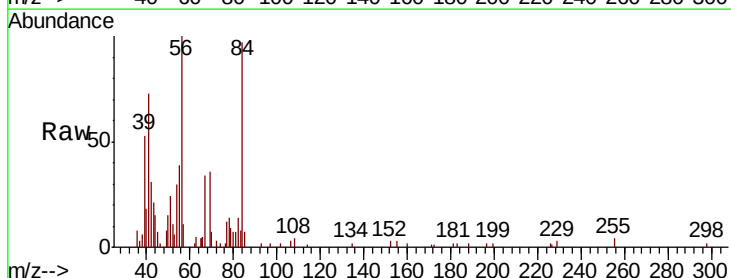
Manual Integrations
APPROVED

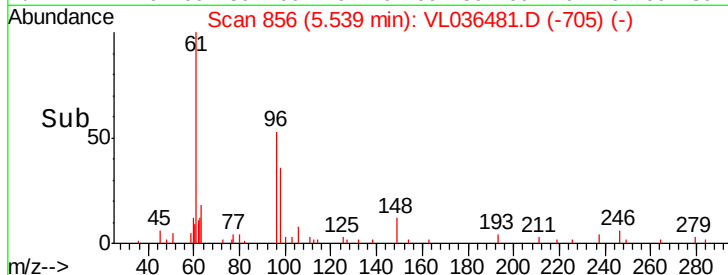
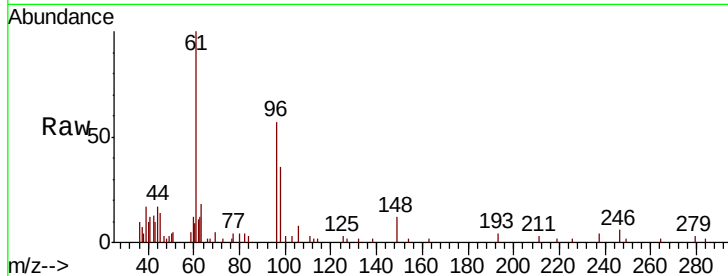
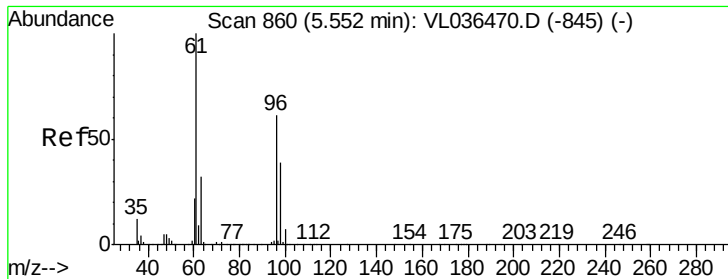
Reviewed By :Semsettin Yesilyurt 03/26/2021
Supervised By :Mahesh Dadoda 03/29/2021



#30
Cyclohexane
Concen: 0.303 ppbv m
RT: 7.12 min Scan# 1347
Delta R.T. -0.02 min
Lab File: VL036481.D
Acq: 25 Mar 2021 11:34

Tgt Ion: 84 Resp: 37038
Ion Ratio Lower Upper
84 100
56 0.0 114.6 171.8#
41 0.0 75.3 112.9#



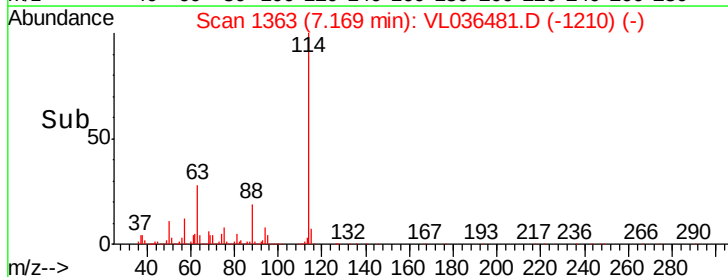
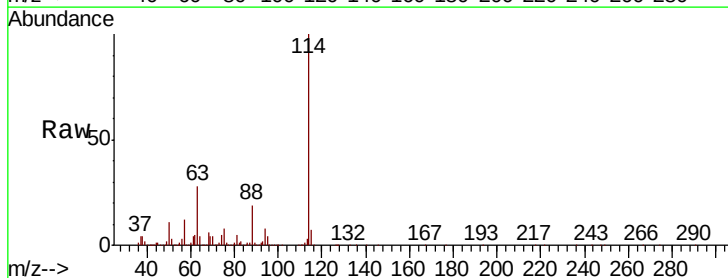
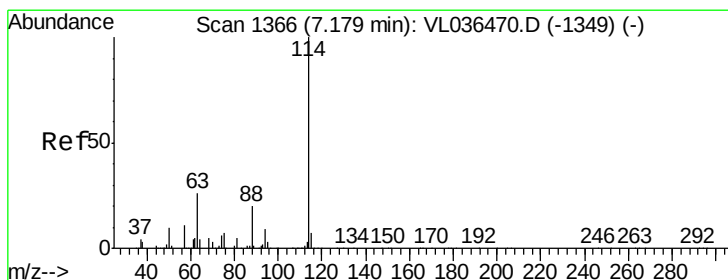
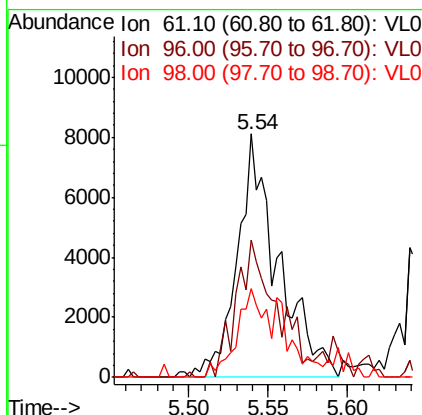


#31
 cis-1,2-Dichloroethene
 Concen: 0.098 ppbv m
 RT: 5.54
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 25 Mar 2021 11:34

Tot Ion:
 Ion Ratio
 61 100
 96 56.
 98 36.

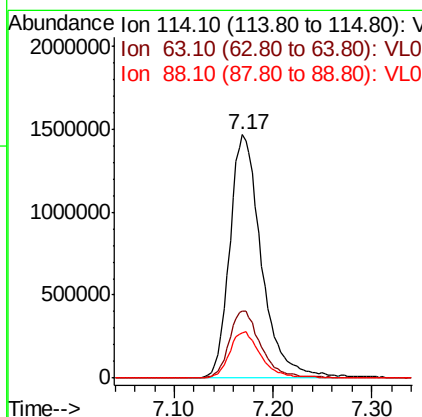
Manual Integrations
 APPROVED

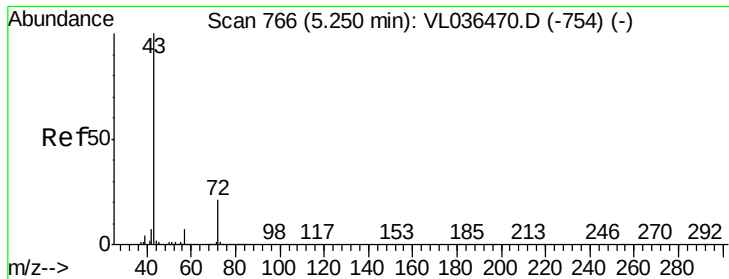
Reviewed By :Semsettin Yesilyurt 03/26/2021
 Supervised By :Mahesh Dadoda 03/29/2021



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.01 min
 Lab File: VL036481.D
 Acq: 25 Mar 2021 11:34

Tgt Ion:114 Resp: 3287613
 Ion Ratio Lower Upper
 114 100
 63 28.1 22.4 33.6
 88 18.9 15.4 23.0



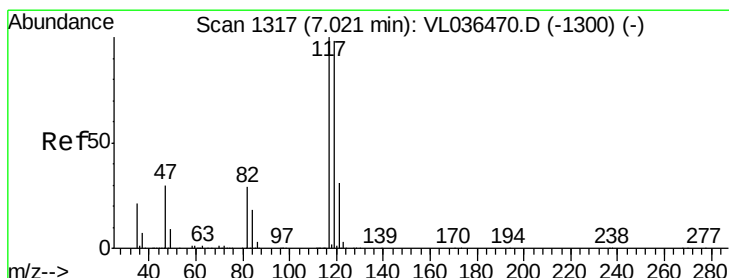
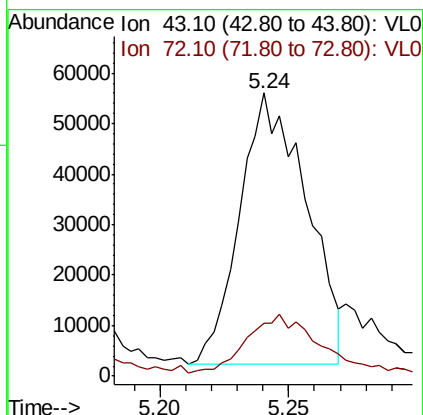
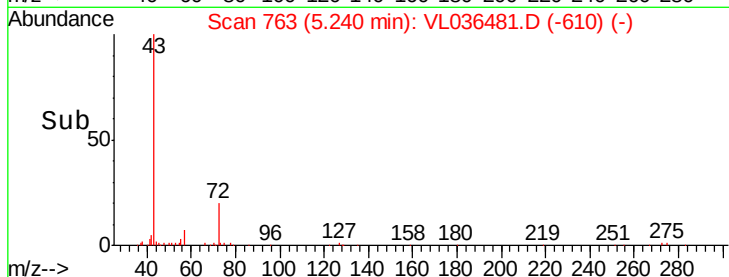
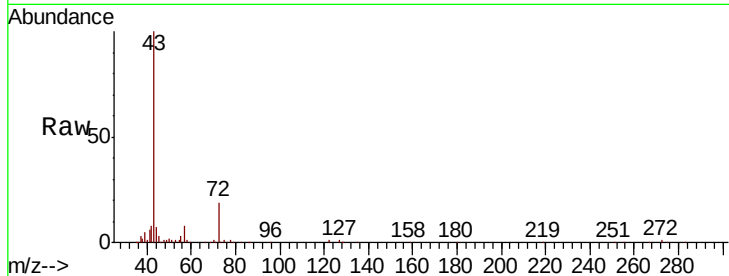


#34
2-Butanone
Concen: 0.601 ppbv
RT: 5.24
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 25 Mar 2021 11:34

Tot Ion:
Ion Ratio
43 100
72 28.

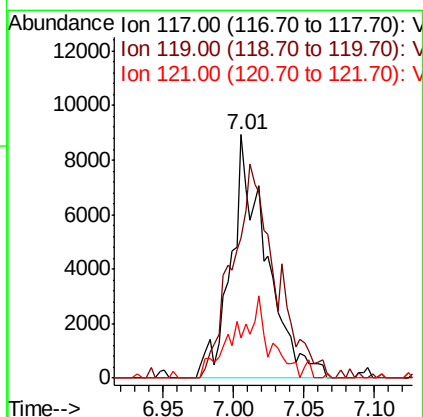
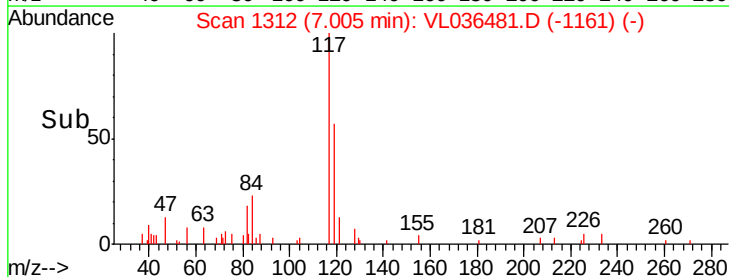
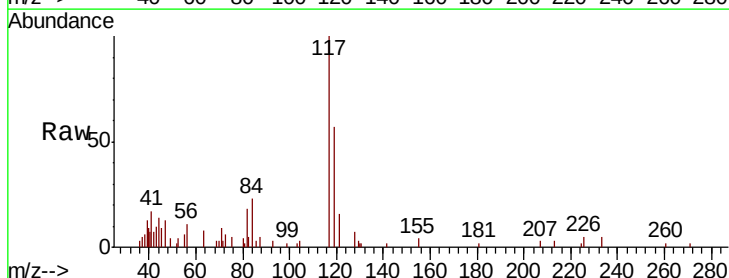
Manual Integrations
APPROVED

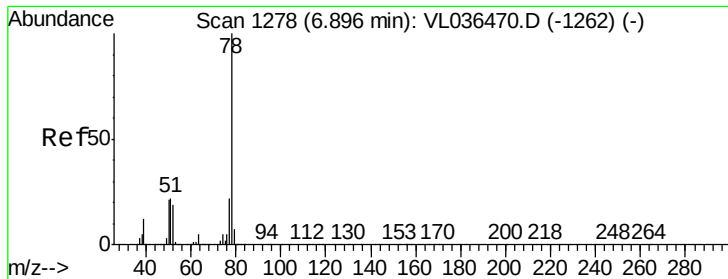
Reviewed By :Semsettin Yesilyurt 03/26/2021
Supervised By :Mahesh Dadoda 03/29/2021



#35
Carbon Tetrachloride
Concen: 0.061 ppbv m
RT: 7.01 min Scan# 1312
Delta R.T. -0.02 min
Lab File: VL036481.D
Acq: 25 Mar 2021 11:34

Tgt Ion:117 Resp: 15510
Ion Ratio Lower Upper
117 100
119 57.4 78.2 117.2#
121 16.4 24.5 36.7#





#36

Benzene

Concen: 0.259 ppbv m

RT: 6.89 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2021 11:34

Tot Ion:

Ion Ratio

78 100

77 22.

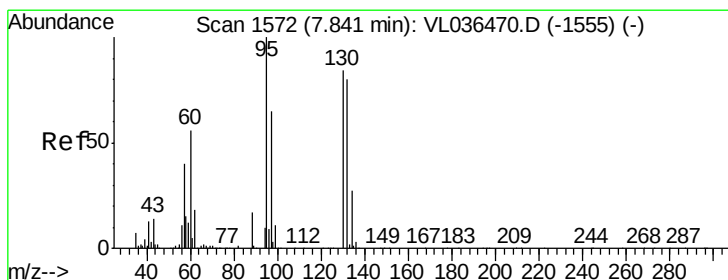
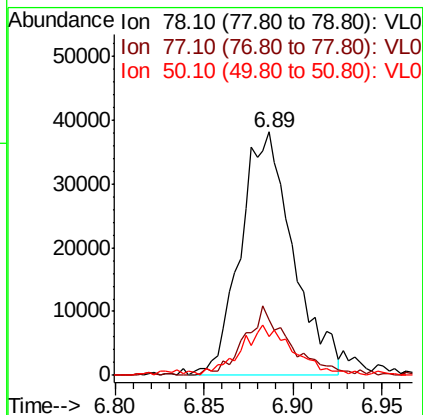
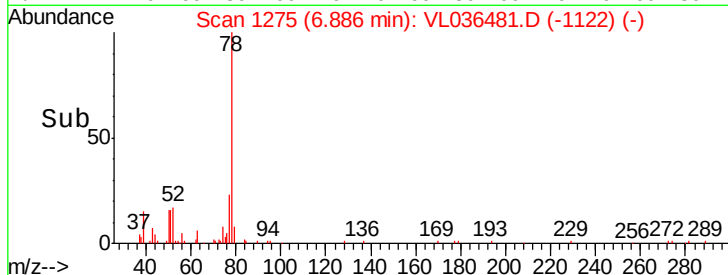
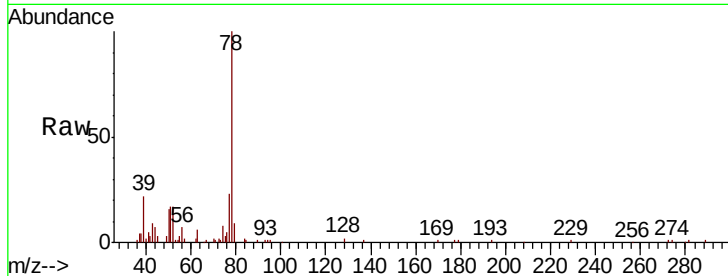
50 16.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/26/2021

Supervised By :Mahesh Dadoda 03/29/2021



#38

Trichloroethene

Concen: 0.060 ppbv m

RT: 7.83 min Scan# 1568

Delta R.T. -0.01 min

Lab File: VL036481.D

Acq: 25 Mar 2021 11:34

Tgt Ion:130 Resp: 7036

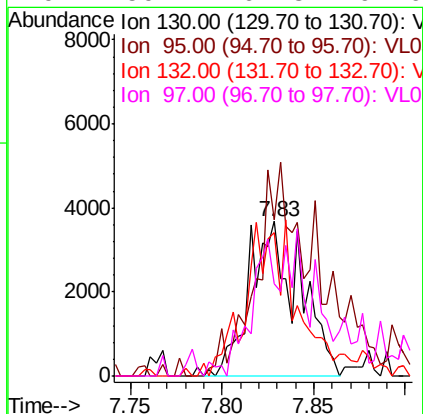
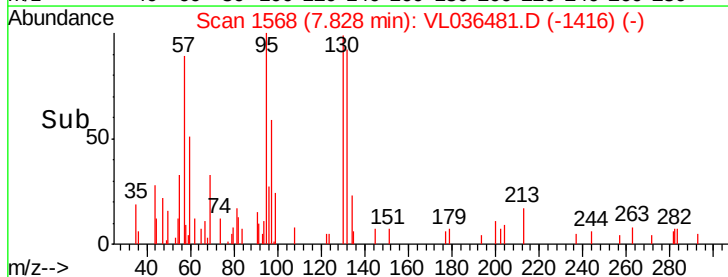
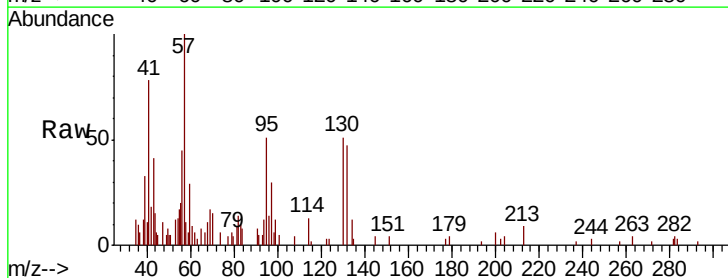
Ion Ratio Lower Upper

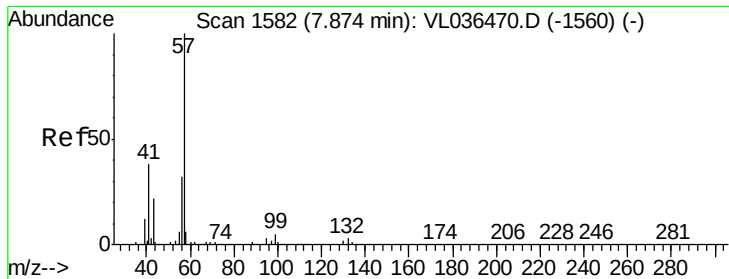
130 100

95 100.7 95.7 143.5

132 93.1 76.2 114.4

97 59.7 61.8 92.6#





#44

2,2,4-Trimethylpentane

Concen: 0.385 ppbv

RT: 7.86 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampled :

Acq: 25 Mar 2021 11:34

Tot Ion:

Ion Ratio

57 100

41 50.

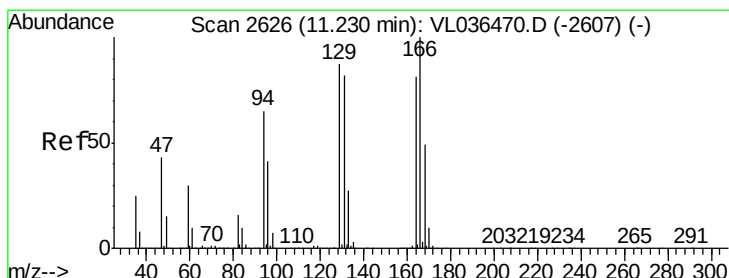
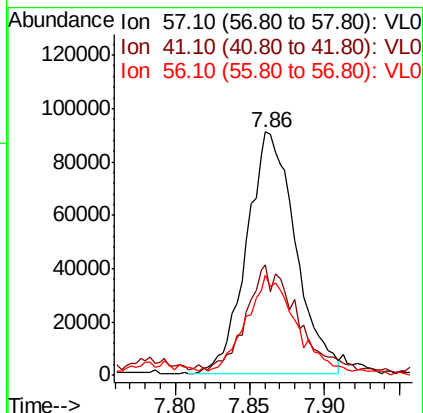
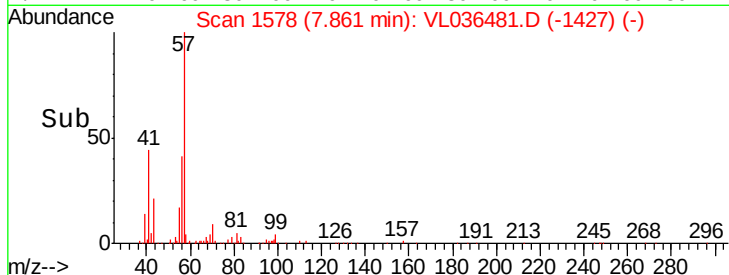
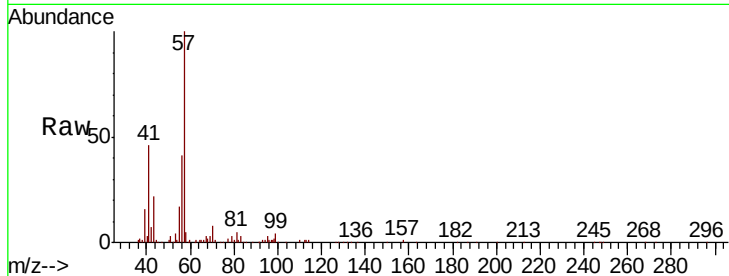
56 45.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/26/2021

Supervised By :Mahesh Dadoda 03/29/2021



#52

Tetrachloroethene

Concen: 1.772 ppbv m

RT: 11.22 min Scan# 2622

Delta R.T. -0.01 min

Lab File: VL036481.D

Acq: 25 Mar 2021 11:34

Tgt Ion:164 Resp: 197806

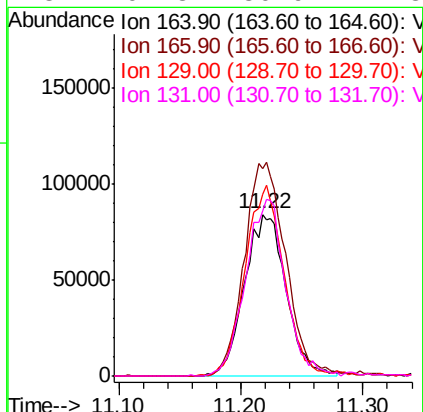
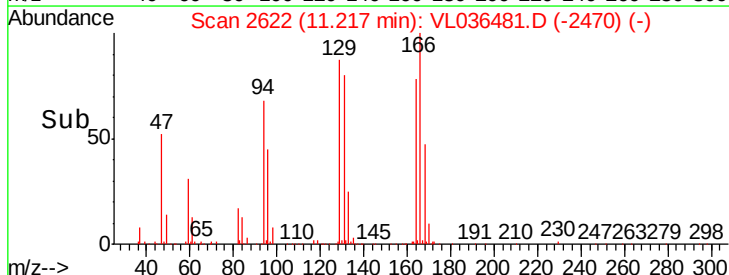
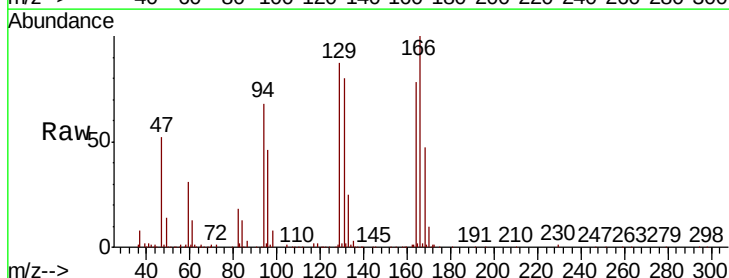
Ion Ratio Lower Upper

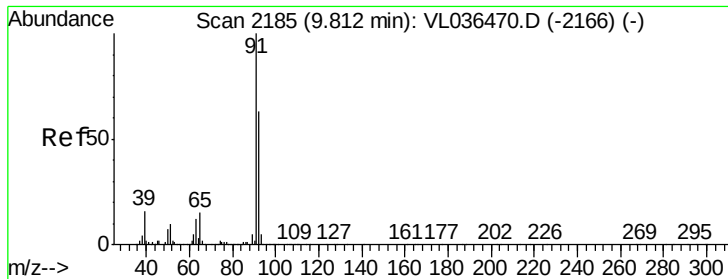
164 100

166 128.5 98.3 147.5

129 112.4 85.8 128.8

131 102.3 80.9 121.3



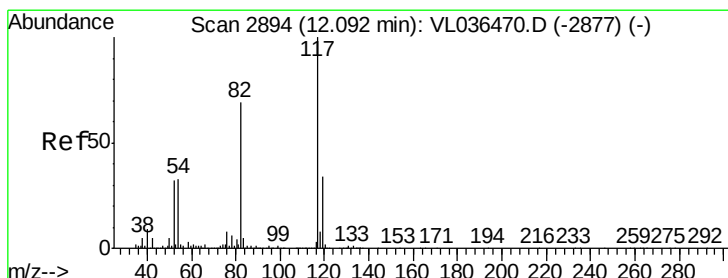
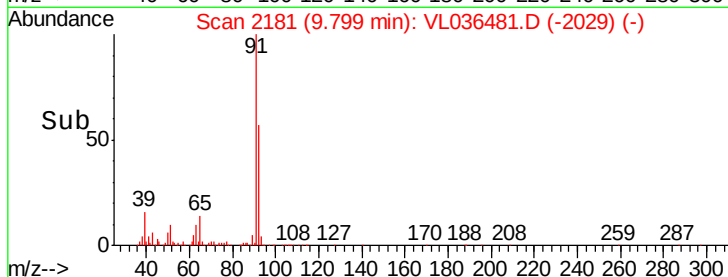
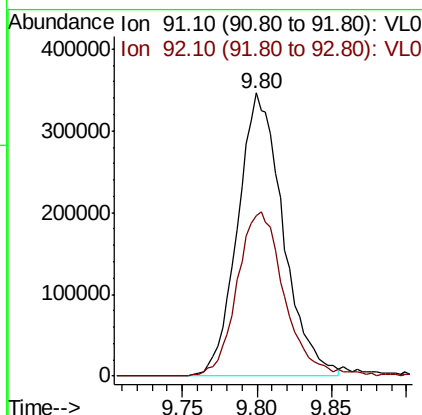
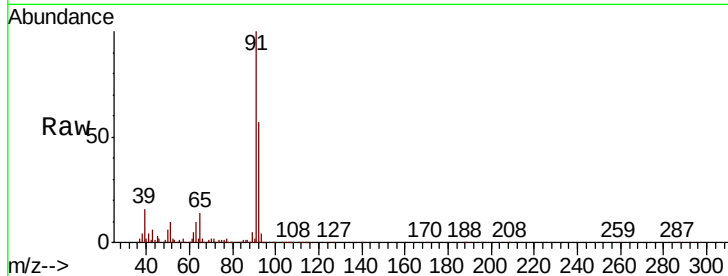


#53
Toluene
Concen: 2.243 ppbv
RT: 9.80
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 25 Mar 2021 11:34

Tot Ion:
Ion Ratio
91 100
92 61.

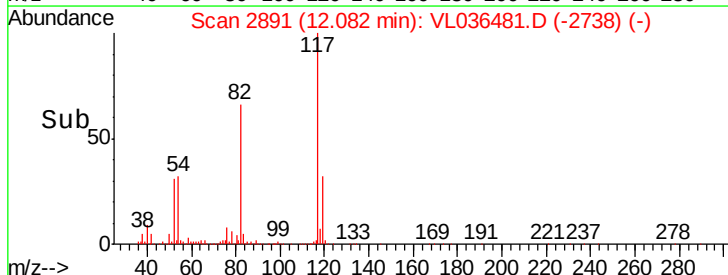
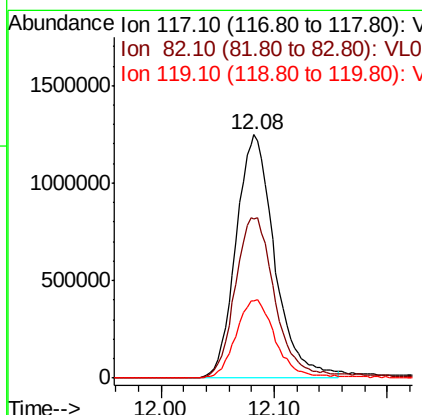
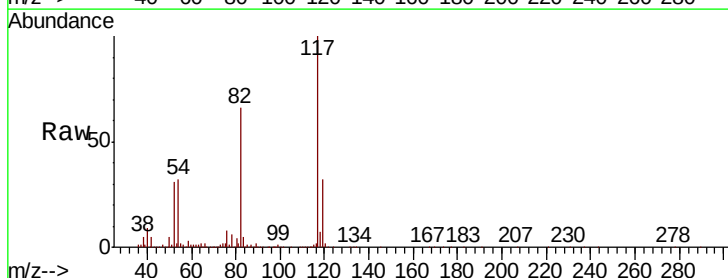
Manual Integrations
APPROVED

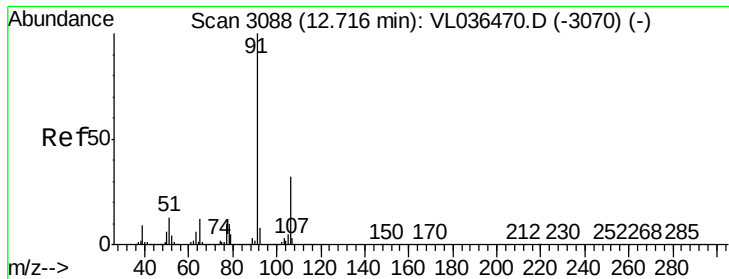
Reviewed By :Semsettin Yesilyurt 03/26/2021
Supervised By :Mahesh Dadoda 03/29/2021



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2891
Delta R.T. -0.01 min
Lab File: VL036481.D
Acq: 25 Mar 2021 11:34

Tgt Ion:117 Resp: 2967364
Ion Ratio Lower Upper
117 100
82 70.4 57.4 86.0
119 34.0 47.4 71.0#





#58

Ethyl Benzene

Concen: 0.264 ppbv m

RT: 12.70

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 25 Mar 2021 11:34

Tot Ion:

Ion Ratio

91 100

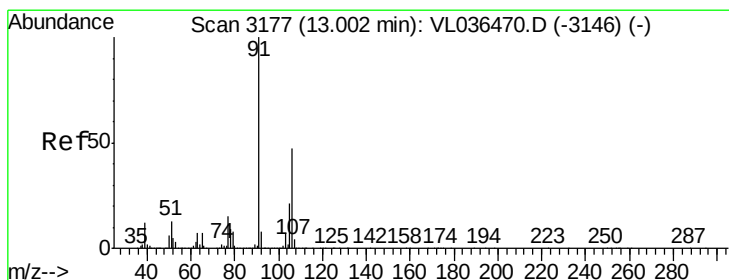
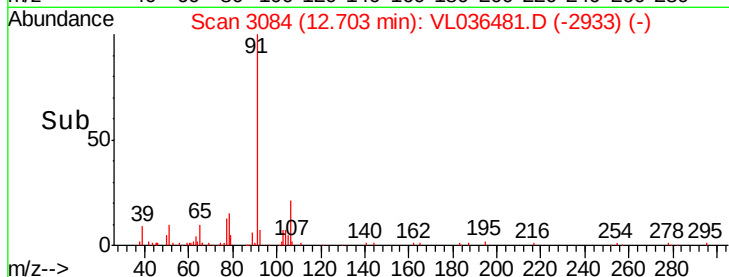
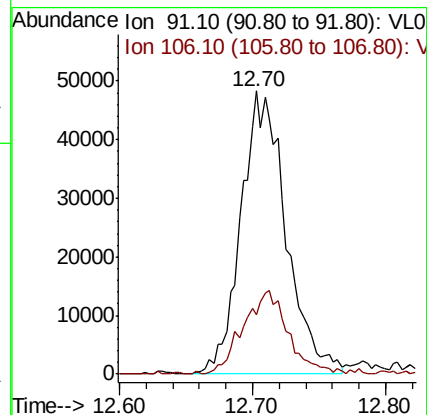
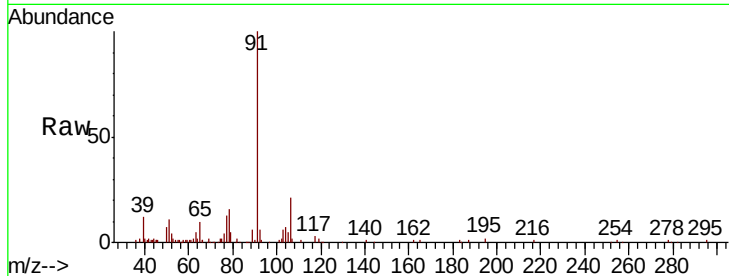
106 21.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/26/2021

Supervised By :Mahesh Dadoda 03/29/2021



#59

m/p-Xylene

Concen: 1.271 ppbv

RT: 12.96 min Scan# 3165

Delta R.T. -0.04 min

Lab File: VL036481.D

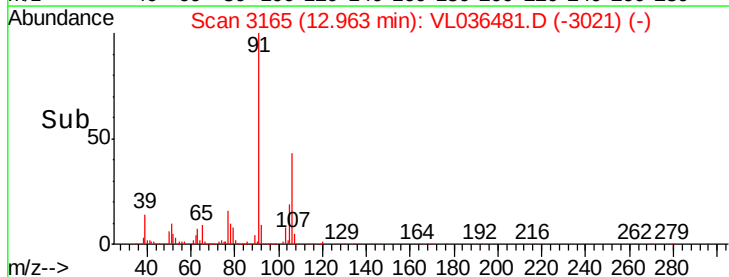
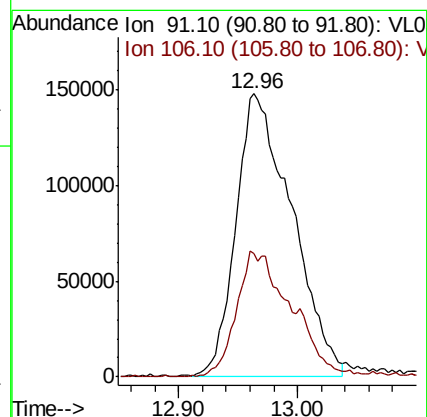
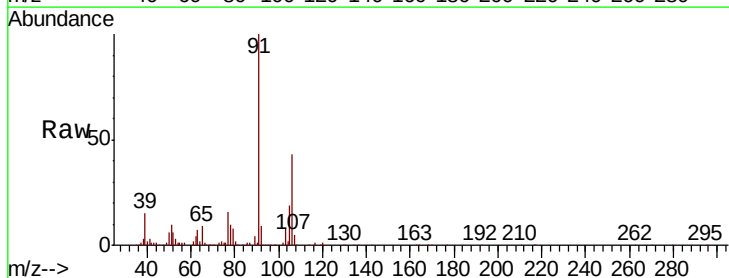
Acq: 25 Mar 2021 11:34

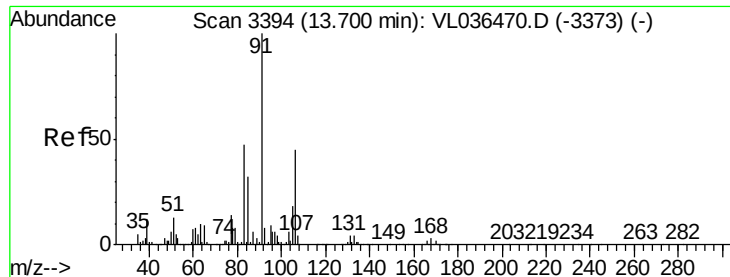
Tgt Ion: 91 Resp: 478458

Ion Ratio Lower Upper

91 100

106 44.7 35.3 52.9





#60

o-Xylene

Concen: 0.371 ppbv

RT: 13.69

Delta R.T.

Lab File:

Acq: 25 Mar 2021 11:34

Instrument :

MSVOA_1

ClientSampleId :

IA1DUP

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/26/2021

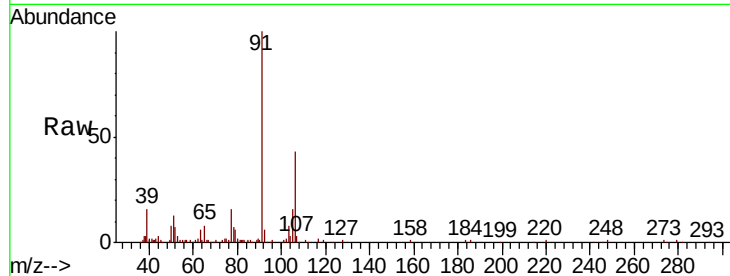
Supervised By :Mahesh Dadoda 03/29/2021

Tot Ion:

Ion Ratio

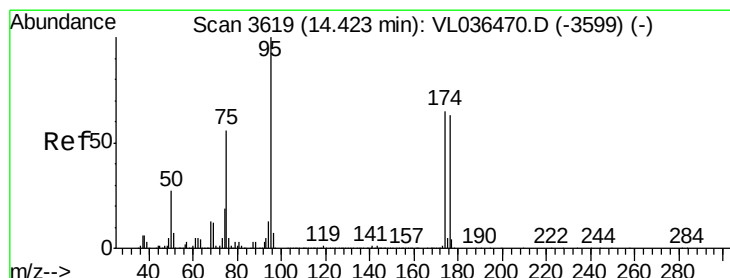
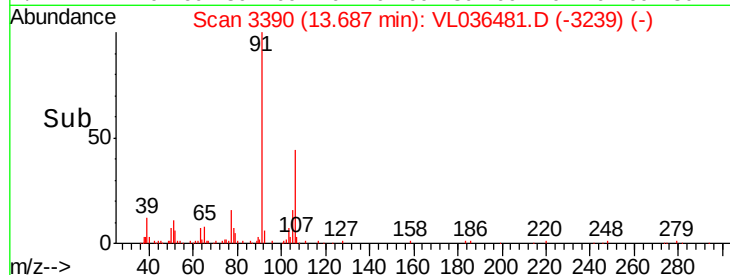
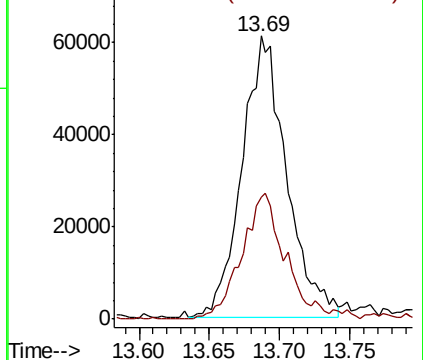
91 100

106 46.



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.775 ppbv

RT: 14.41 min Scan# 3615

Delta R.T. -0.01 min

Lab File: VL036481.D

Acq: 25 Mar 2021 11:34

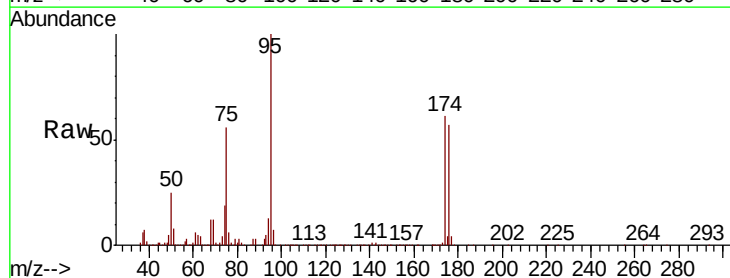
Tgt Ion: 95 Resp: 2311913

Ion Ratio Lower Upper

95 100

174 67.2 51.0 76.6

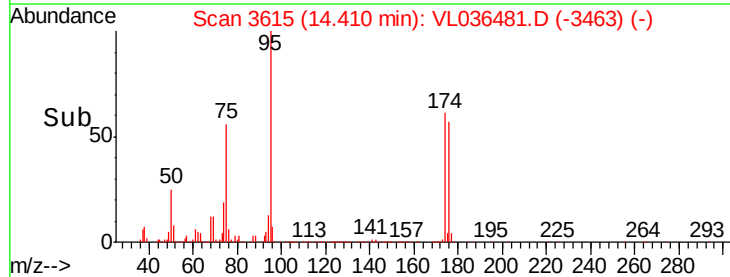
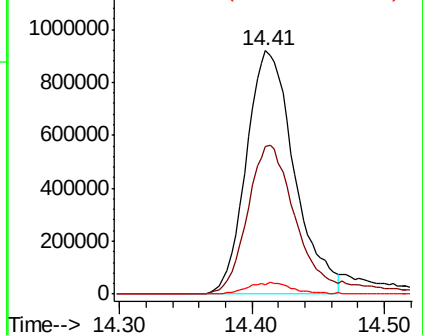
175 5.1 3.9 5.9

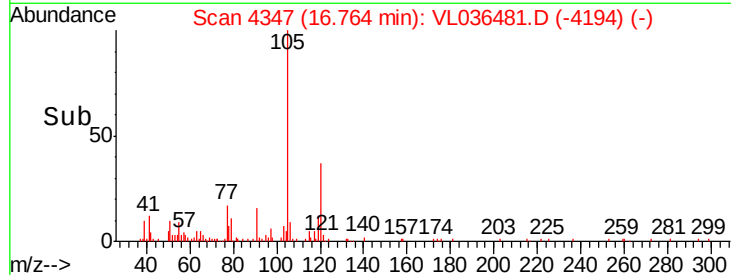
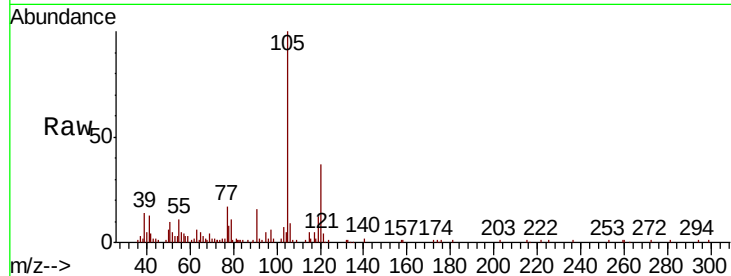
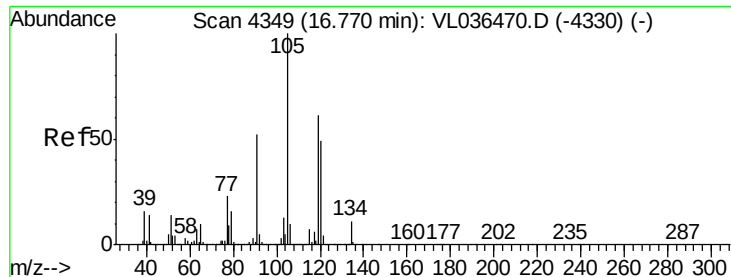


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#74
 1,2,4-Trimethylbenzene
 Concen: 0.315 ppbv m
 RT: 16.76
 Delta R.T
 Lab File: ClientSampleId :
 Acq: 25 Mar 2021 11:34

Tot Ion:1
 Ion Rati
 105 100
 120 37.
 91 16.
 77 17.5 18.6 28.0#

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/26/2021
 Supervised By :Mahesh Dadoda 03/29/2021

