

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032521\
 Data File : VL036486.D
 Acq On : 25 Mar 2021 14:55
 Operator : SY/AP
 Sample : M1801-02 4X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 SV2

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/28/2021
 Supervised By : Mahesh Dadoda 03/29/2021

Quant Time: Mar 28 23:19:42 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	1592712	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3806951	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3567399	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2908398	10.23	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.30%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.04	85	31924m	0.123	ppbv	
3) Chlorodifluoromethane	2.98	51	116673m	0.392	ppbv	
9) Propene	3.02	41	36158m	0.381	ppbv	
10) Heptane	8.12	43	133532	0.553	ppbv	92
11) Trichlorofluoromethane	3.95	101	25760m	0.097	ppbv	
13) Ethanol	3.61	45	40732m	3.606	ppbv	
20) Methylene Chloride	4.34	84	55744m	0.760	ppbv	
26) Hexane	5.68	57	979545	5.664	ppbv #	47
29) Chloroform	5.74	83	765317	2.767	ppbv	97
32) 1,1,1-Trichloroethane	6.51	97	10774m	0.039	ppbv	
35) Carbon Tetrachloride	7.01	117	14140m	0.048	ppbv	
38) Trichloroethene	7.83	130	48011m	0.351	ppbv	
52) Tetrachloroethene	11.22	164	3278018	25.354	ppbv	98
53) Toluene	9.80	91	375169	1.003	ppbv	100
58) Ethyl Benzene	12.71	91	781415	1.506	ppbv	94
59) m/p-Xylene	12.97	91	1594917	3.523	ppbv	96
60) o-Xylene	13.69	91	651342	1.488	ppbv	93
61) Styrene	13.53	104	154599	0.702	ppbv #	84
62) Isopropylbenzene	14.67	105	240714	0.408	ppbv	100
64) n-propylbenzene	15.57	120	104290	0.724	ppbv	69
67) sec-Butylbenzene	17.30	105	252071	0.349	ppbv	97
72) 4-Ethyltoluene	15.85	105	358970	0.748	ppbv #	93
73) 1,3,5-Trimethylbenzene	16.00	105	288067	0.644	ppbv	91
74) 1,2,4-Trimethylbenzene	16.77	105	707379	1.477	ppbv #	68

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

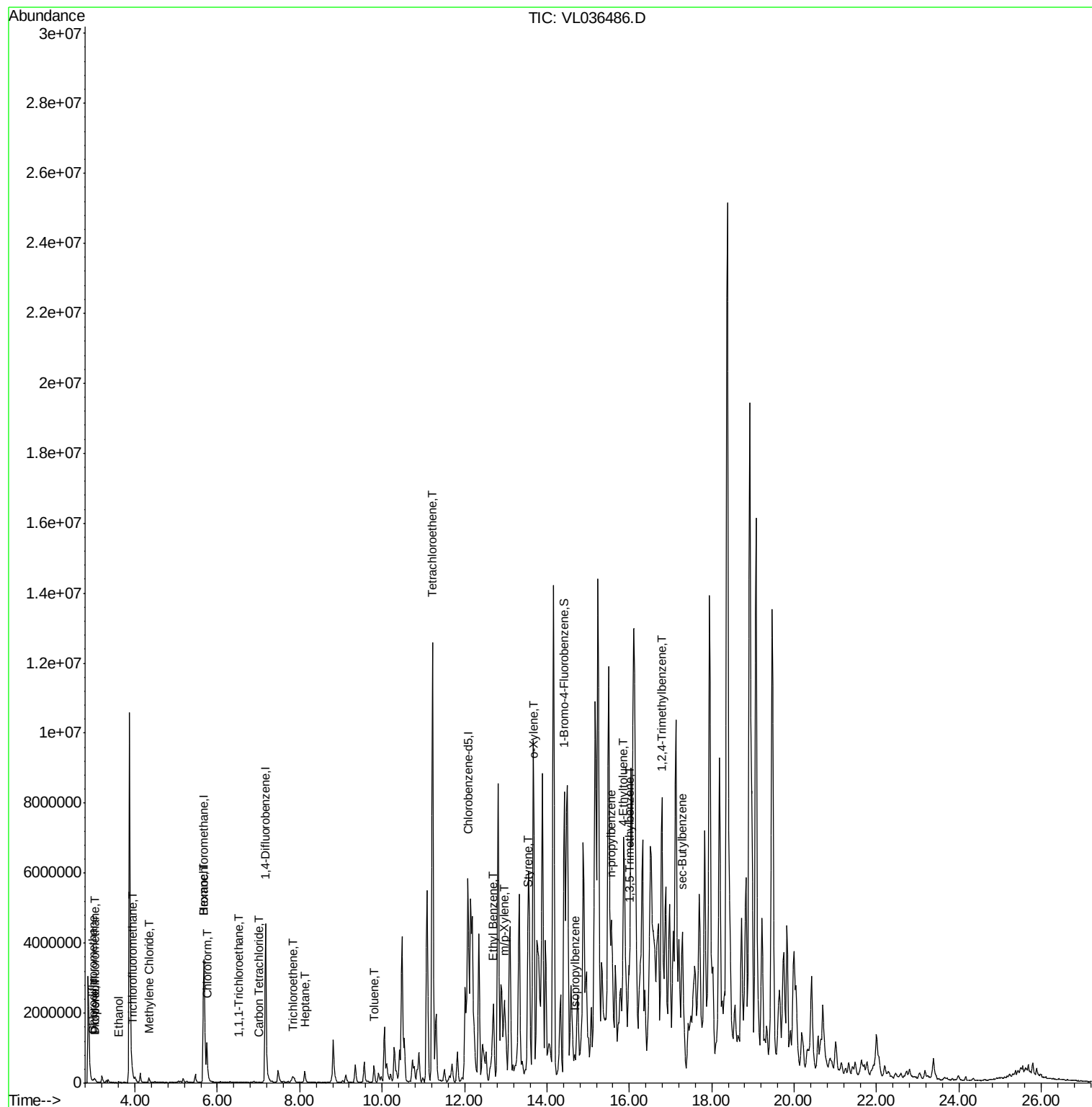
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032521\
Data File : VL036486.D
Acq On : 25 Mar 2021 14:55
Operator : SY/AP
Sample : M1801-02 4X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

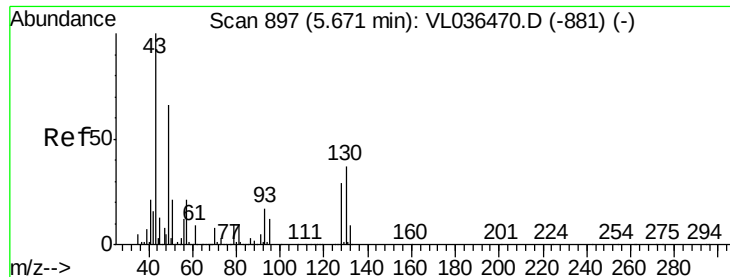
Instrument :
MSVOA_L
ClientSampleId :
SV2

Manual Integrations
APPROVED

Quant Time: Mar 28 23:19:42 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

Reviewed By :Semsettin Yesilyurt 03/28/2021
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 14:55

Tot Ion:

Ion Ratio

49 100

128 46.

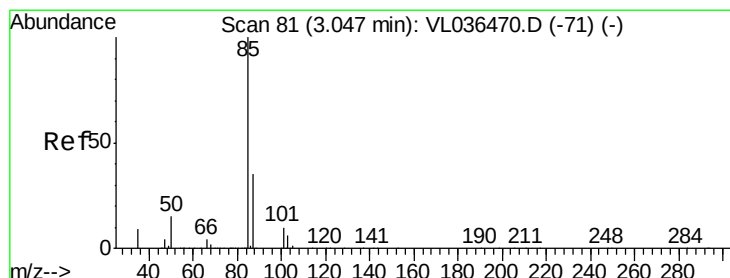
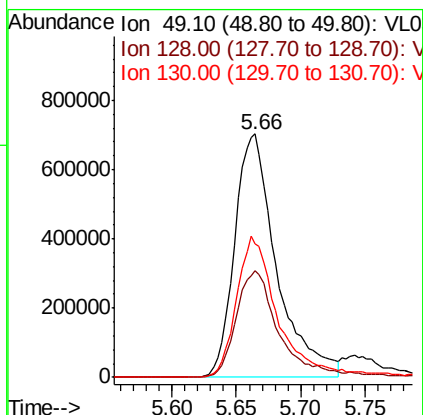
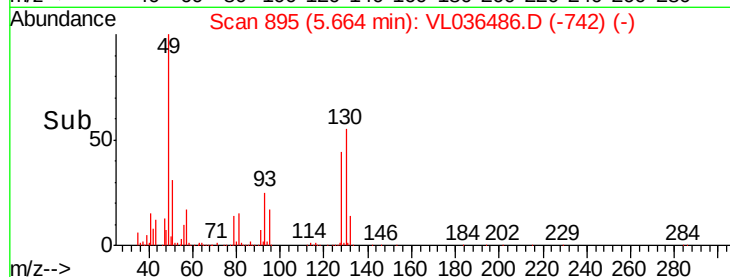
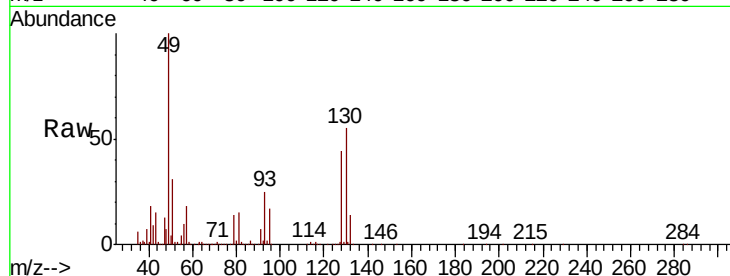
130 58.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/28/2021

Supervised By :Mahesh Dadoda 03/29/2021



#2

Dichlorodifluoromethane

Concen: 0.123 ppbv m

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL036486.D

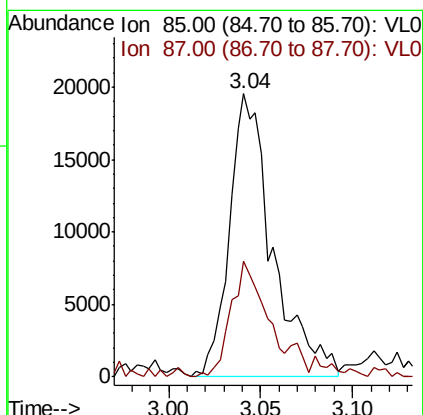
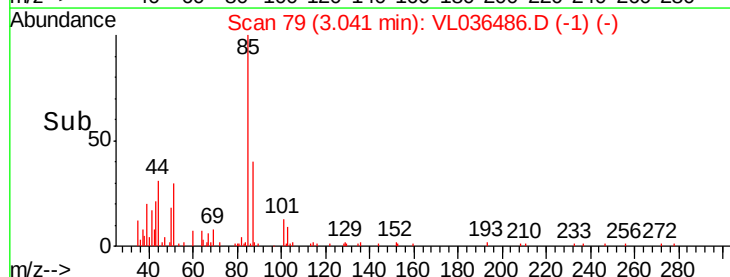
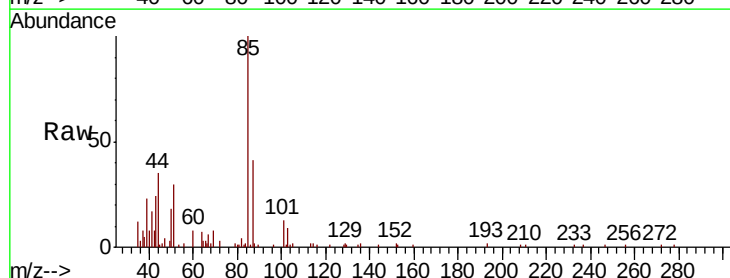
Acq: 25 Mar 2021 14:55

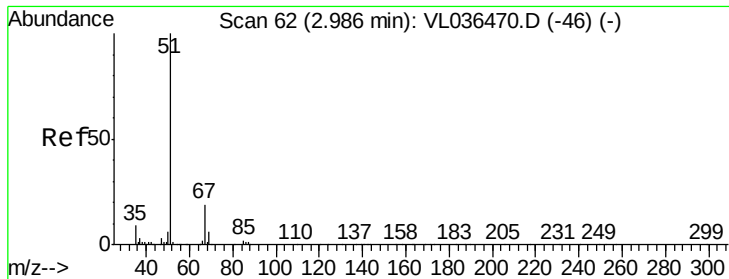
Tgt Ion: 85 Resp: 31924

Ion Ratio Lower Upper

85 100

87 40.7 27.8 41.8





#3

Chlorodifluoromethane

Concen: 0.392 ppbv m

RT: 2.98 Instrument: MSVOA_1

Delta R.T. 0.01

Lab File: ClientSampleId: SV2

Acq: 25 Mar 2021 14:55

Tot Ion:

Ion Ratio

51 100

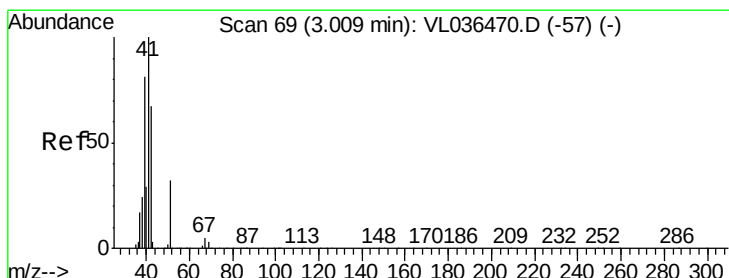
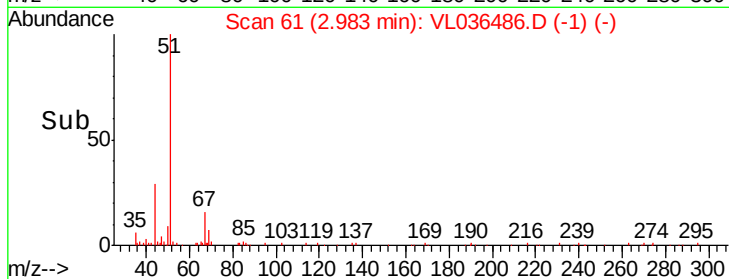
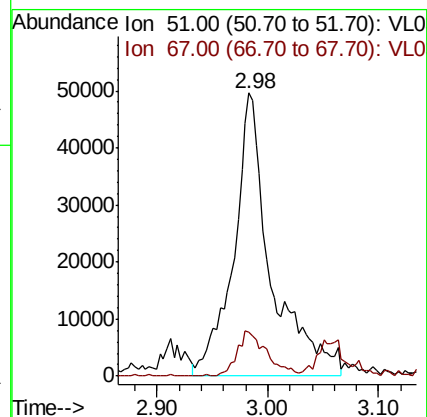
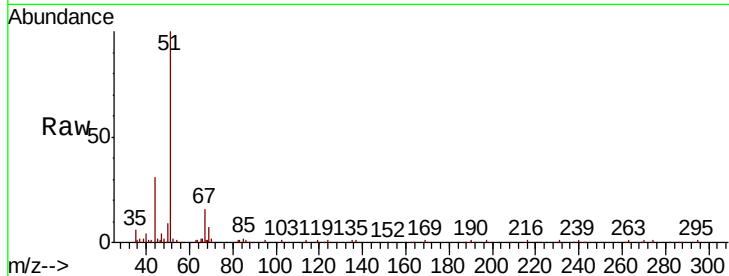
67 1.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/28/2021

Supervised By :Mahesh Dadoda 03/29/2021



#9

Propene

Concen: 0.381 ppbv m

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL036486.D

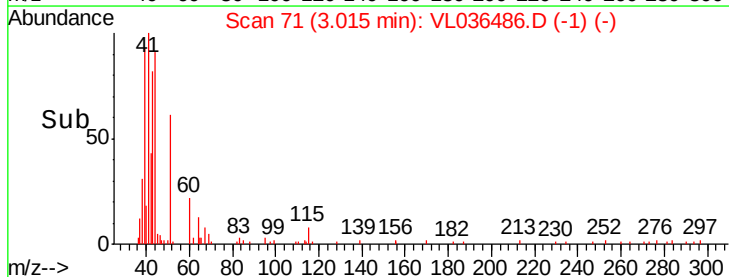
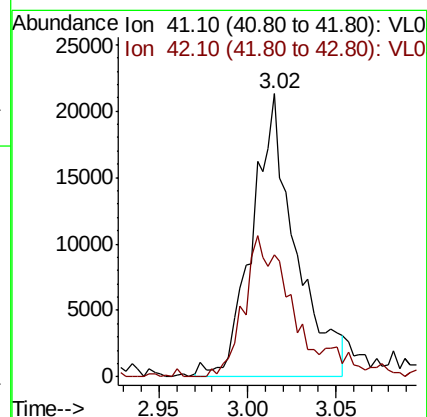
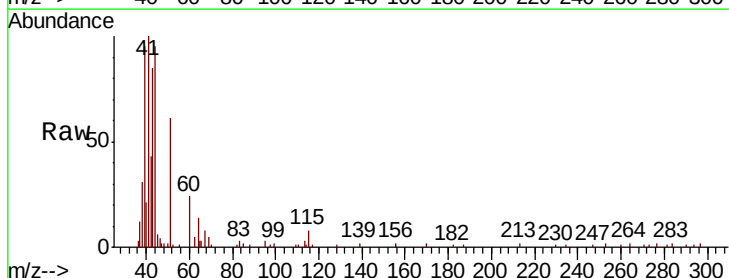
Acq: 25 Mar 2021 14:55

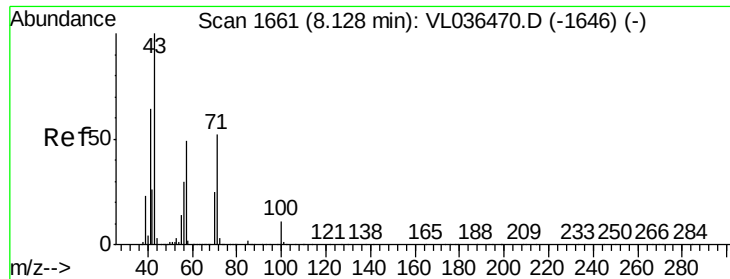
Tgt Ion: 41 Resp: 36158

Ion Ratio Lower Upper

41 100

42 59.4 57.0 85.4



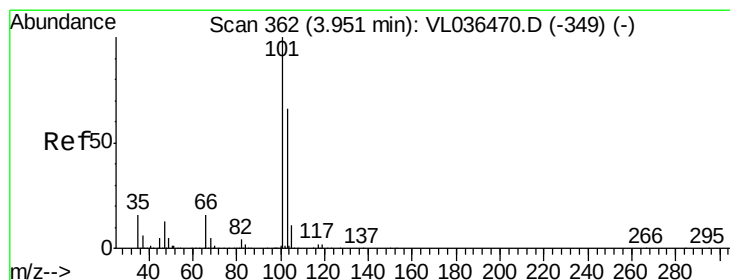
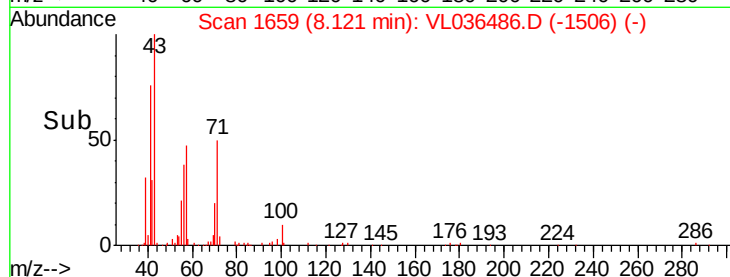
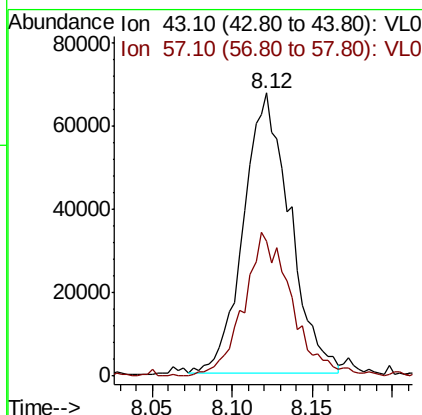
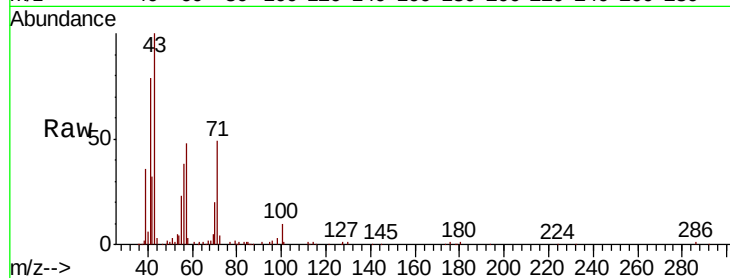


#10
 Heptane
 Concen: 0.553 ppbv
 RT: 8.12
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 25 Mar 2021 14:55

Tot Ion:
 Ion Ratio
 43 100
 57 54.

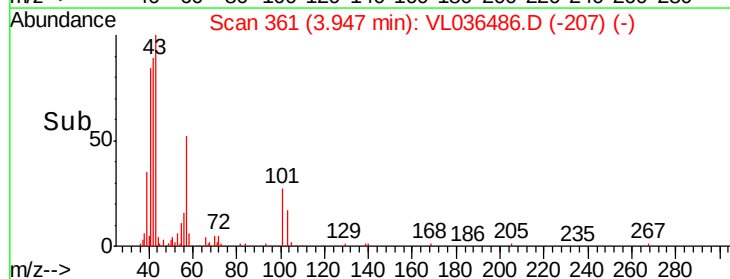
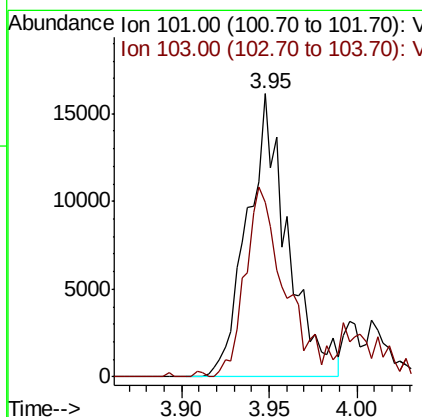
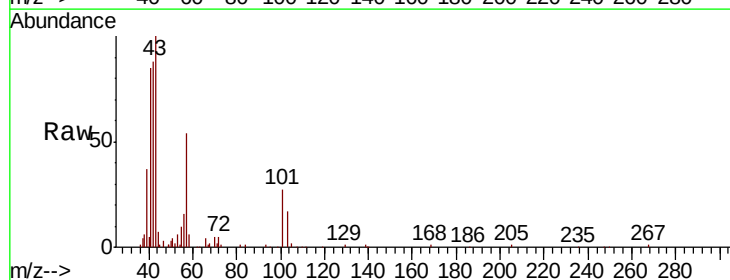
Manual Integrations
 APPROVED

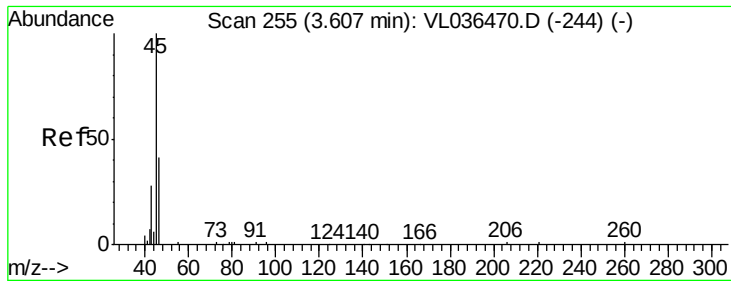
Reviewed By :Semsettin Yesilyurt 03/28/2021
 Supervised By :Mahesh Dadoda 03/29/2021



#11
 Trichlorofluoromethane
 Concen: 0.097 ppbv m
 RT: 3.95 min Scan# 361
 Delta R.T. -0.00 min
 Lab File: VL036486.D
 Acq: 25 Mar 2021 14:55

Tgt Ion:101 Resp: 25760
 Ion Ratio Lower Upper
 101 100
 103 61.5 52.5 78.7



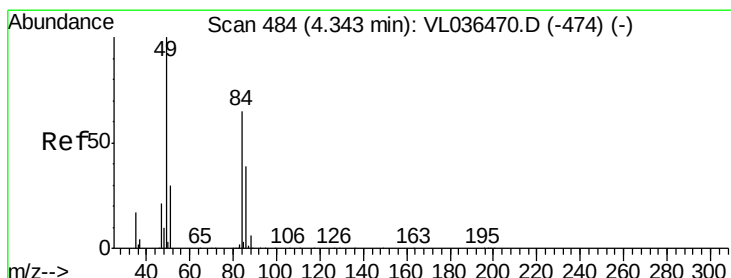
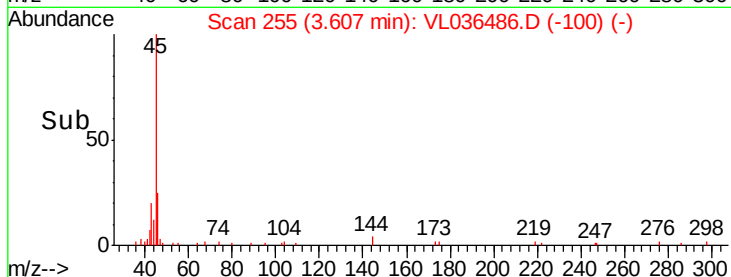
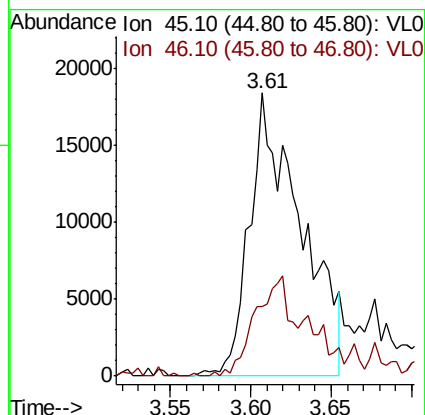
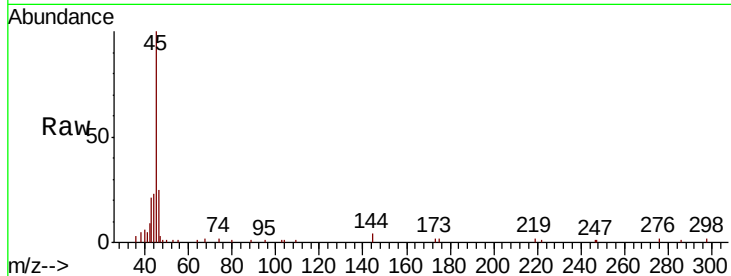


#13
Ethanol
Concen: 3.606 ppbv m
RT: 3.61
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 25 Mar 2021 14:55

Tot Ion:
Ion Ratio
45 100
46 0.

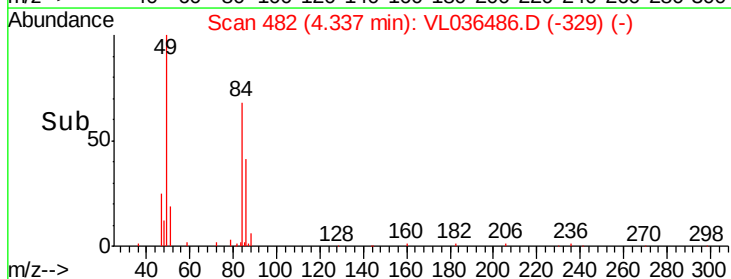
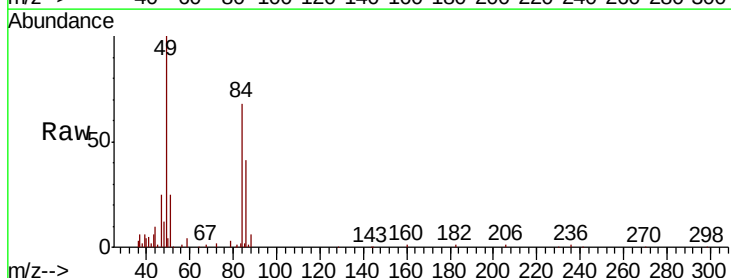
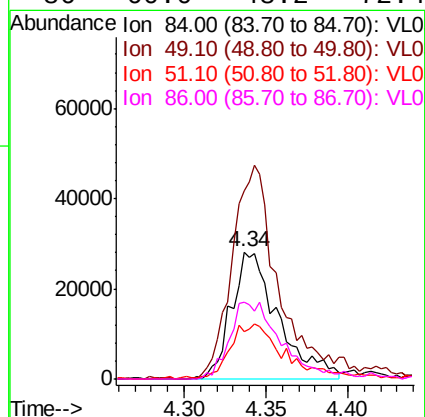
Manual Integrations
APPROVED

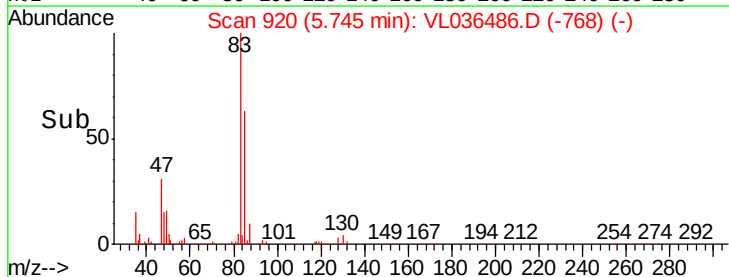
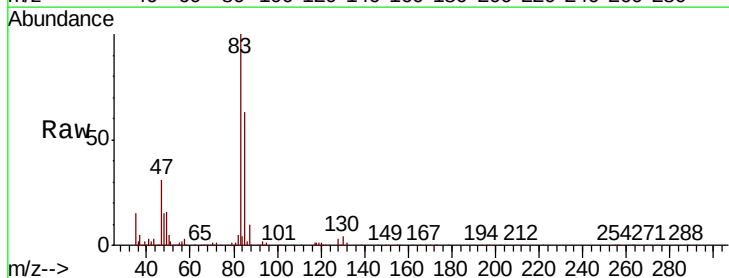
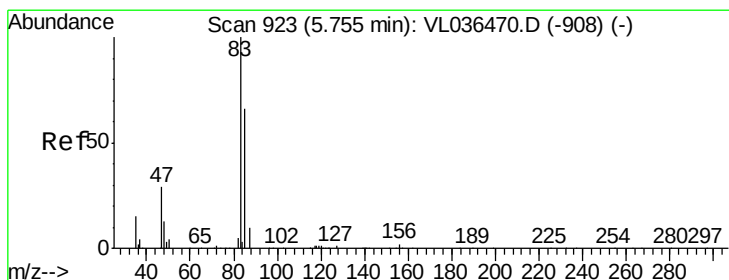
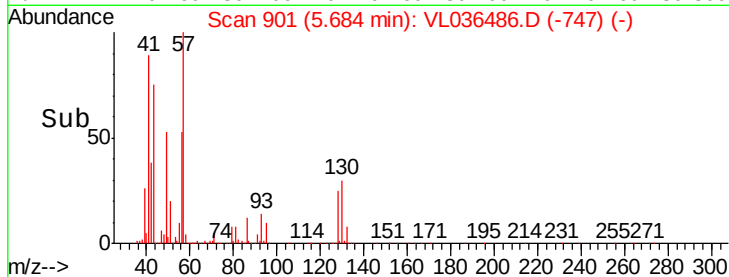
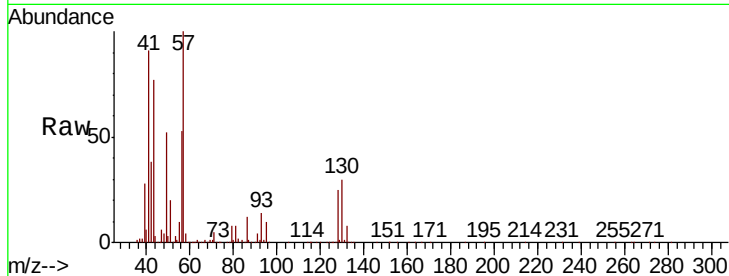
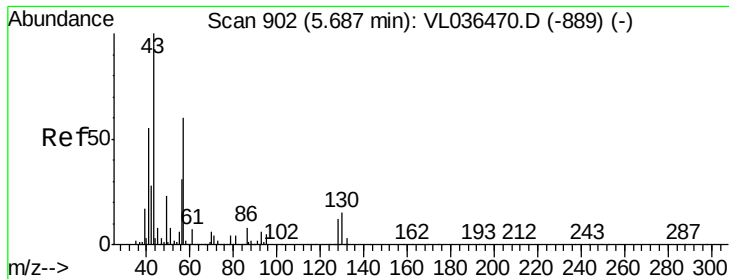
Reviewed By :Semsettin Yesilyurt 03/28/2021
Supervised By :Mahesh Dadoda 03/29/2021



#20
Methylene Chloride
Concen: 0.760 ppbv m
RT: 4.34 min Scan# 482
Delta R.T. -0.01 min
Lab File: VL036486.D
Acq: 25 Mar 2021 14:55

Tgt Ion: 84 Resp: 55744
Ion Ratio Lower Upper
84 100
49 147.7 122.9 184.3
51 37.5 36.9 55.3
86 60.0 48.2 72.4





#26

Hexane

Concen: 5.664 ppbv

RT: 5.68

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 25 Mar 2021 14:55

Tot Ion:

Ion Ratio

57 100

41 96.

43 75.

56 55.3

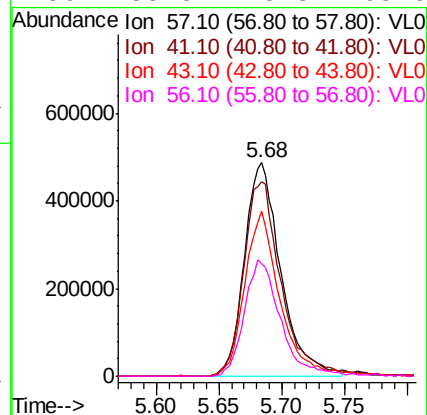
Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/28/2021

Supervised By :Mahesh Dadoda 03/29/2021

43.8 65.6



#29

Chloroform

Concen: 2.767 ppbv

RT: 5.74 min Scan# 920

Delta R.T. -0.01 min

Lab File: VL036486.D

Acq: 25 Mar 2021 14:55

Tgt Ion: 83 Resp: 765317

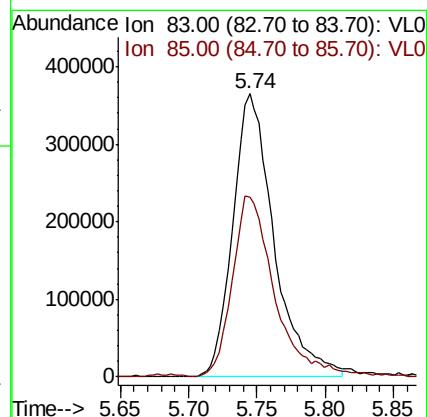
Ion Ratio Lower Upper

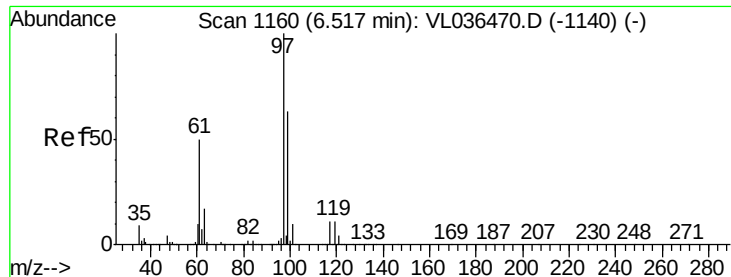
83 100

85 63.1

52.6

78.8





#32

1,1,1-Trichloroethane

Concen: 0.039 ppbv m

RT: 6.51 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2021 14:55 SV2

Tot Ion:

Ion Ratio

97 100

99 0.

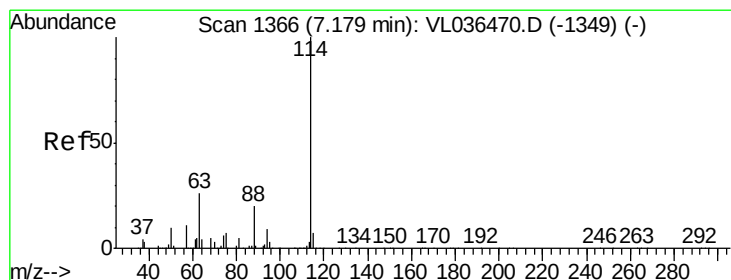
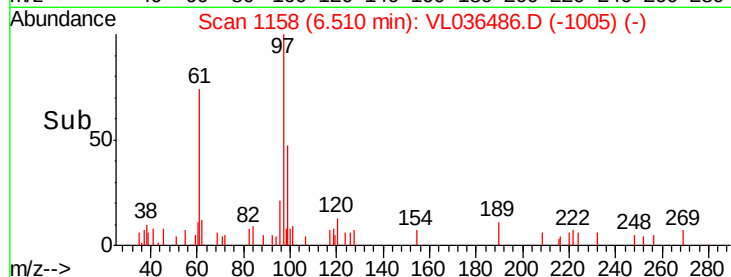
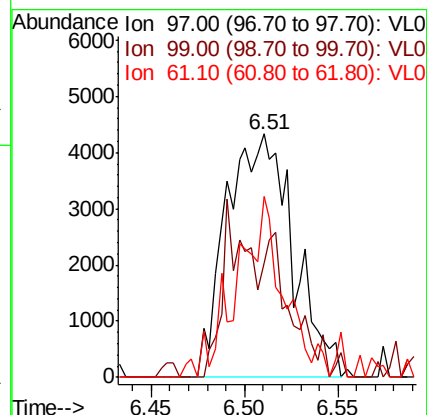
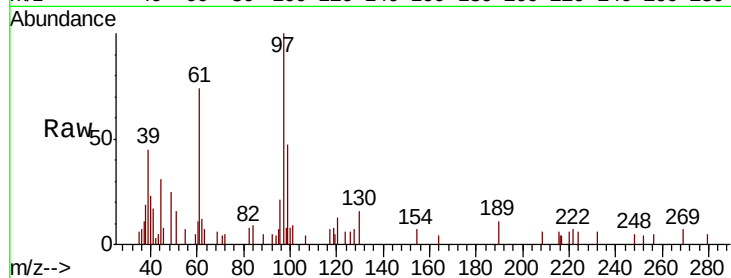
61 54.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/28/2021

Supervised By :Mahesh Dadoda 03/29/2021



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.01 min

Lab File: VL036486.D

Acq: 25 Mar 2021 14:55

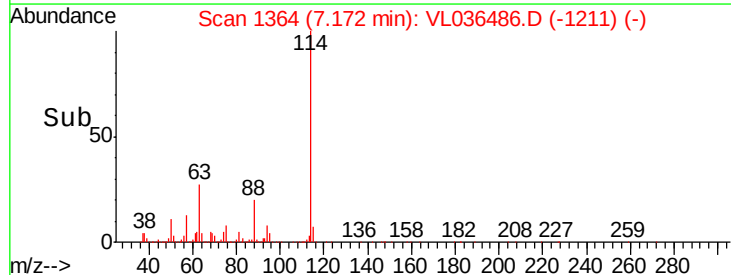
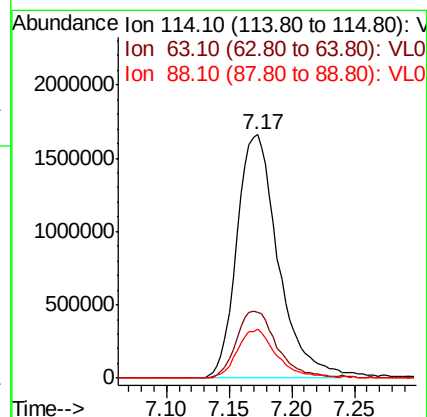
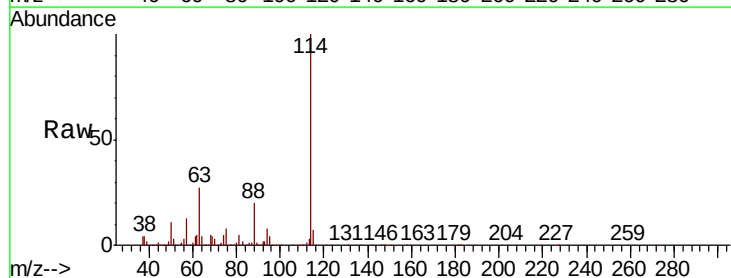
Tgt Ion:114 Resp: 3806951

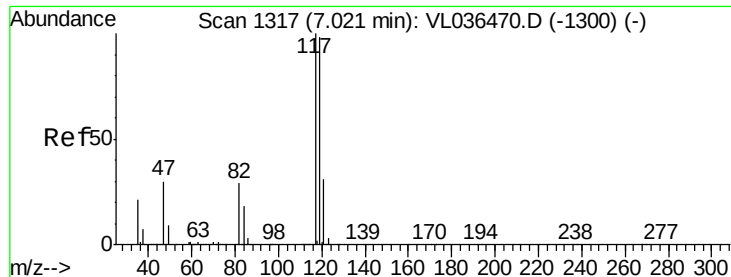
Ion Ratio Lower Upper

114 100

63 27.8 22.4 33.6

88 19.4 15.4 23.0





#35

Carbon Tetrachloride

Concen: 0.048 ppbv m

RT: 7.01 Instrument:

Delta R.T. MSVOA_L

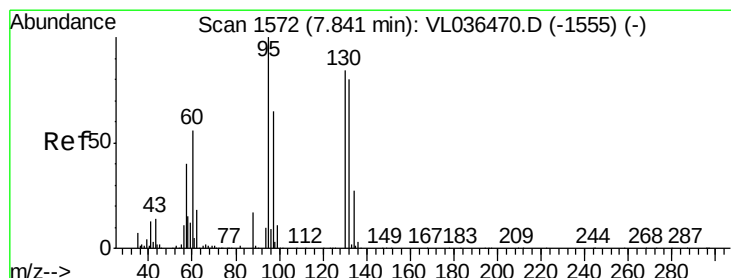
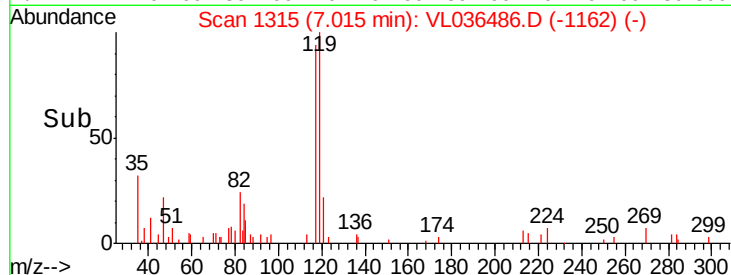
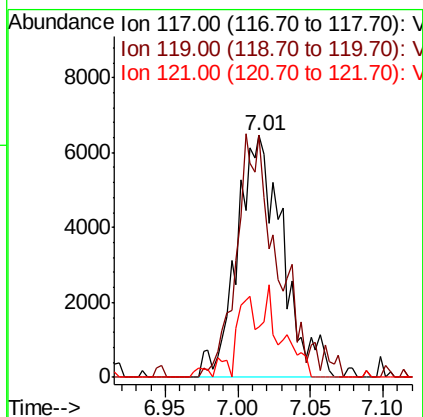
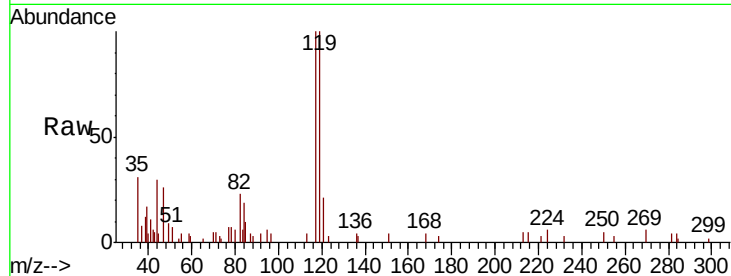
Lab File: ClientSampleId:

Acq: 25 Mar 2021 14:55 SV2

Tot Ion:1
Ion Rati
117 100
119 99.
121 21.

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/28/2021
Supervised By :Mahesh Dadoda 03/29/2021



#38

Trichloroethene

Concen: 0.351 ppbv m

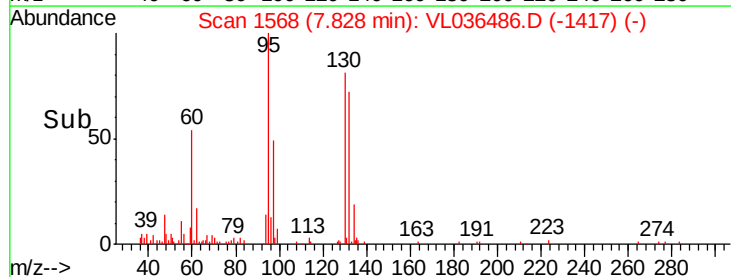
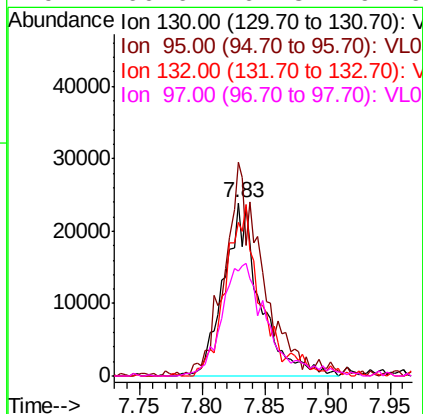
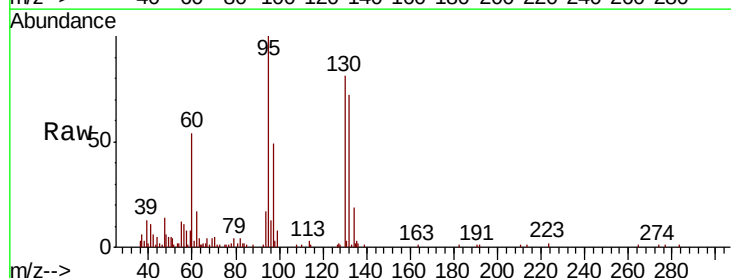
RT: 7.83 min Scan# 1568

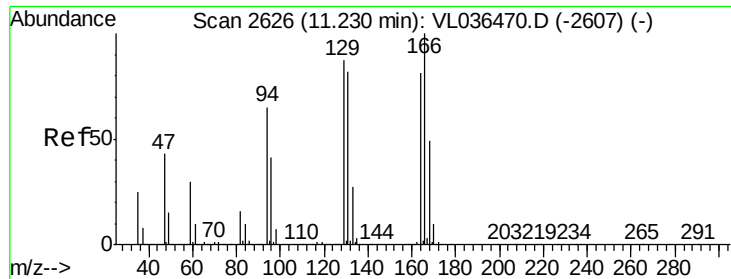
Delta R.T. -0.01 min

Lab File: VL036486.D

Acq: 25 Mar 2021 14:55

Tgt Ion:130 Resp: 48011
Ion Ratio Lower Upper
130 100
95 123.2 95.7 143.5
132 88.8 76.2 114.4
97 60.6 61.8 92.6#





#52

Tetrachloroethene

Concen: 25.354 ppbv

RT: 11.22

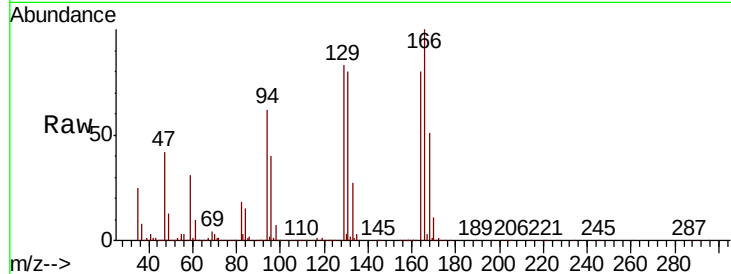
Delta R.T. MSVOA_L

Lab File:

Acq: 25 Mar 2021 14:55

ClientSampleId :

SV2



Tot Ion:1

Ion Ratio

164 100

166 124.

129 102.

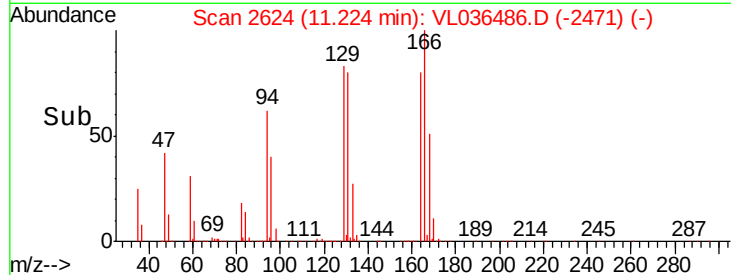
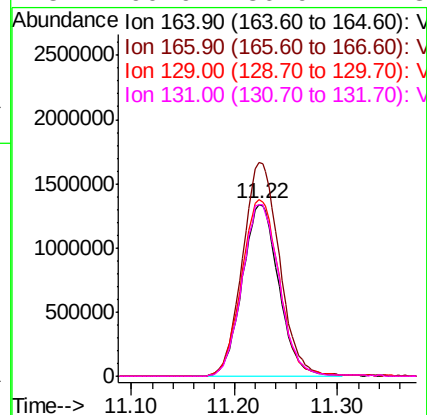
131 99.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/28/2021

Supervised By :Mahesh Dadoda 03/29/2021



#53

Toluene

Concen: 1.003 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. -0.01 min

Lab File: VL036486.D

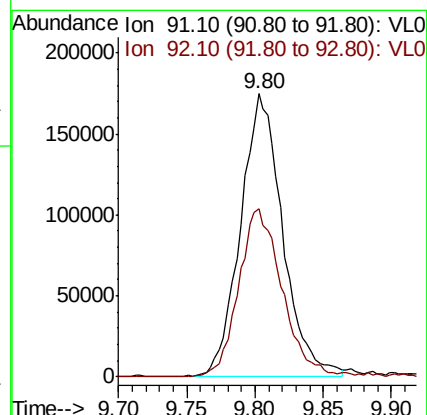
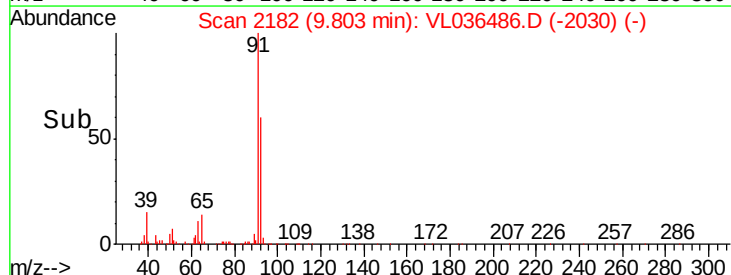
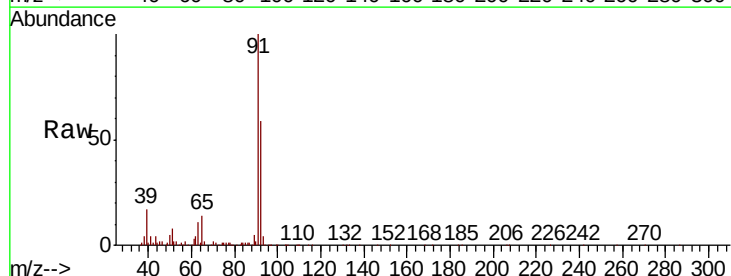
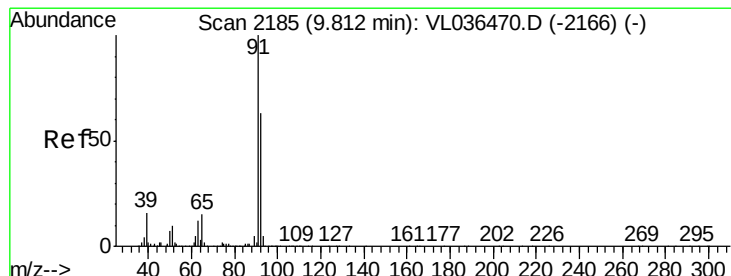
Acq: 25 Mar 2021 14:55

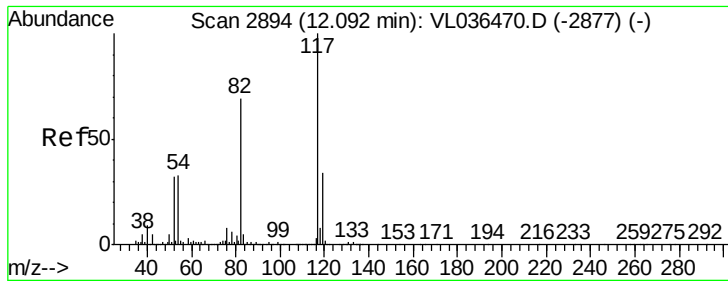
Tgt Ion: 91 Resp: 375169

Ion Ratio Lower Upper

91 100

92 61.2 48.8 73.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2021 14:55

Tot Ion:1

Ion Rati

117 100

82 68.

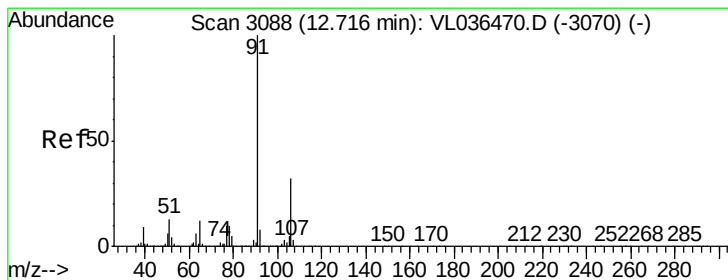
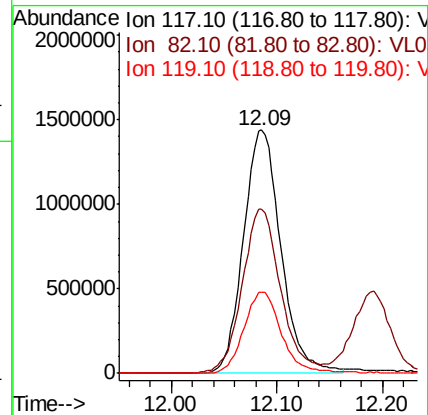
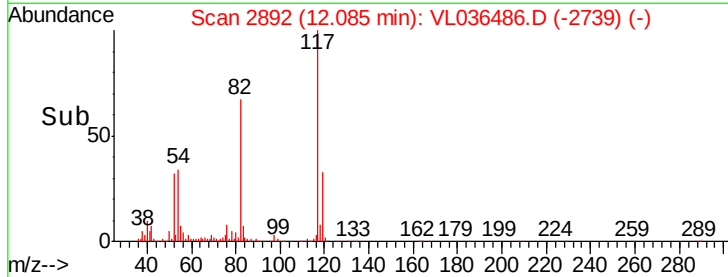
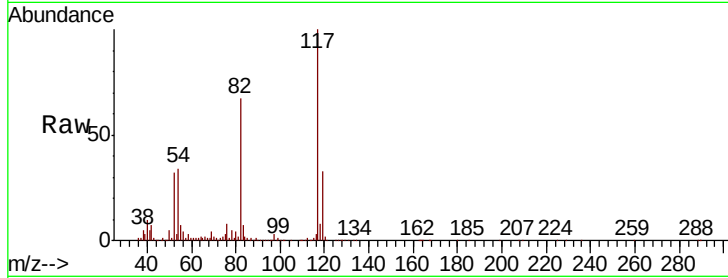
119 33.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/28/2021

Supervised By :Mahesh Dadoda 03/29/2021



#58

Ethyl Benzene

Concen: 1.506 ppbv

RT: 12.71 min Scan# 3087

Delta R.T. -0.00 min

Lab File: VL036486.D

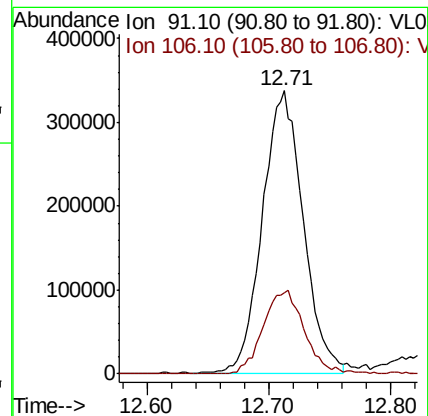
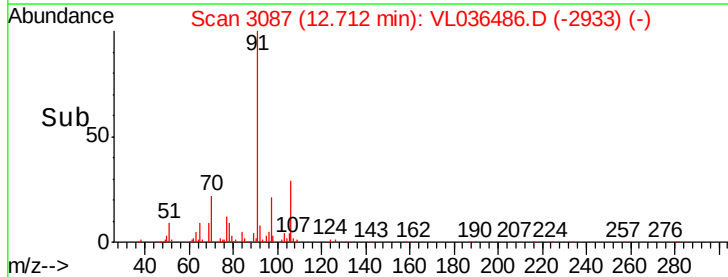
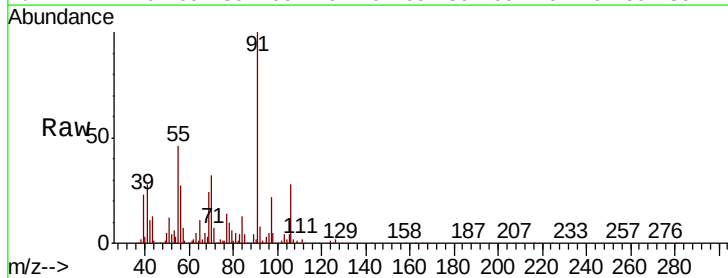
Acq: 25 Mar 2021 14:55

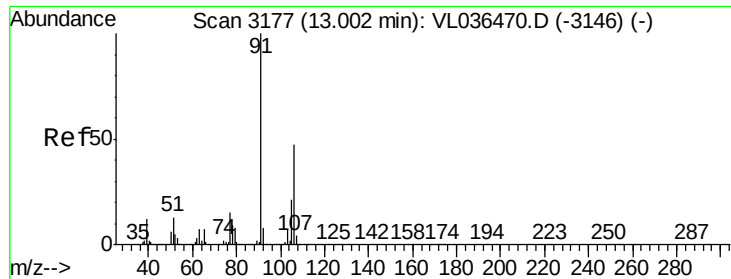
Tgt Ion: 91 Resp: 781415

Ion Ratio Lower Upper

91 100

106 28.4 25.3 37.9



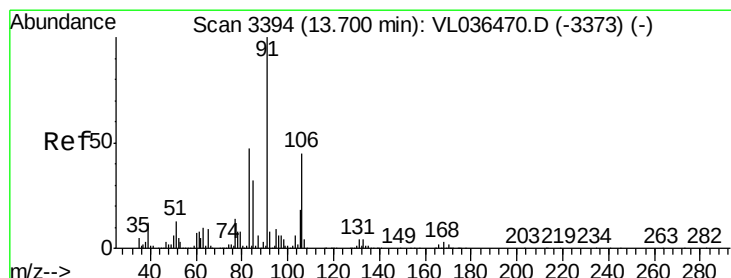
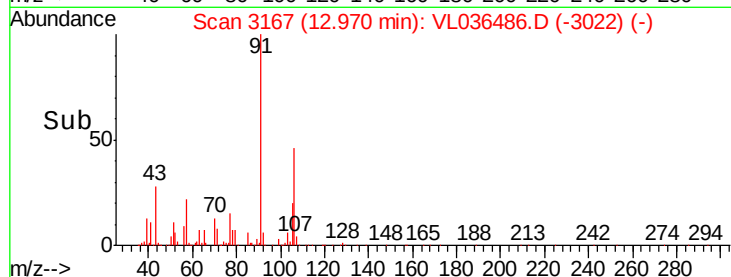
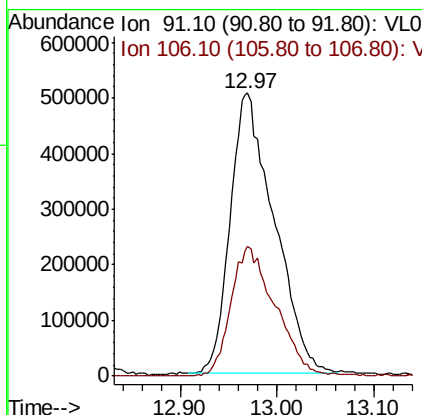
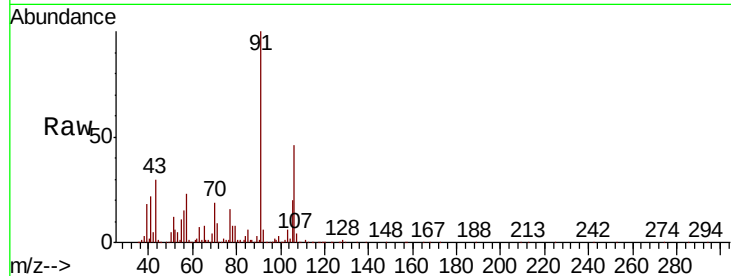


#59
m/p-Xylene
Concen: 3.523 ppbv
RT: 12.97 min
Delta R.T. MSVOA.L
Lab File: ClientSampleId :
Acq: 25 Mar 2021 14:55

Tot Ion:
Ion Ratio
91 100
106 46.

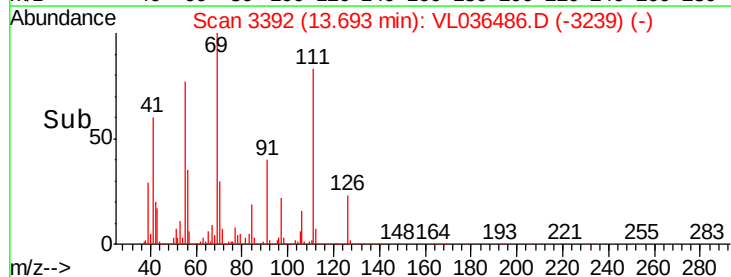
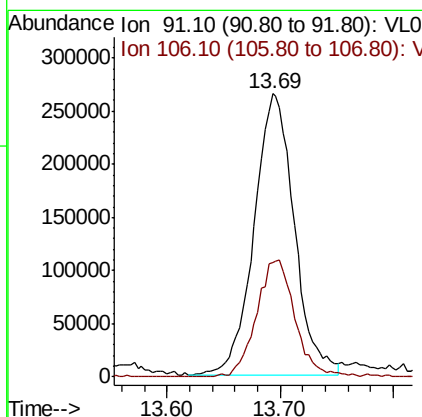
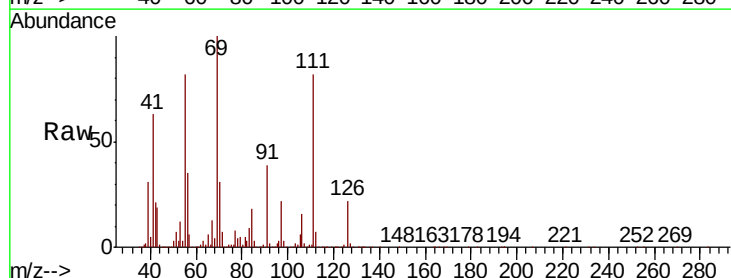
Manual Integrations
APPROVED

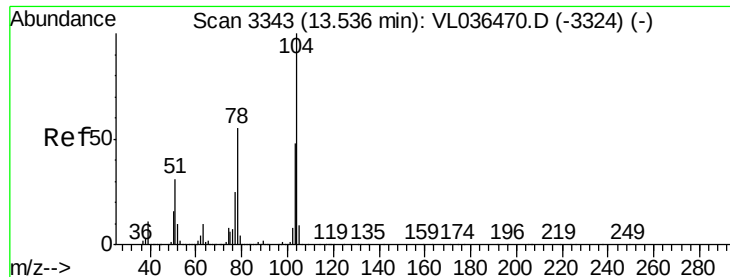
Reviewed By :Semsettin Yesilyurt 03/28/2021
Supervised By :Mahesh Dadoda 03/29/2021



#60
o-Xylene
Concen: 1.488 ppbv
RT: 13.69 min Scan# 3392
Delta R.T. -0.01 min
Lab File: VL036486.D
Acq: 25 Mar 2021 14:55

Tgt Ion: 91 Resp: 651342
Ion Ratio Lower Upper
91 100
106 40.2 22.3 66.9





#61

Styrene

Concen: 0.702 ppbv

RT: 13.53

Delta R.T.

Lab File:

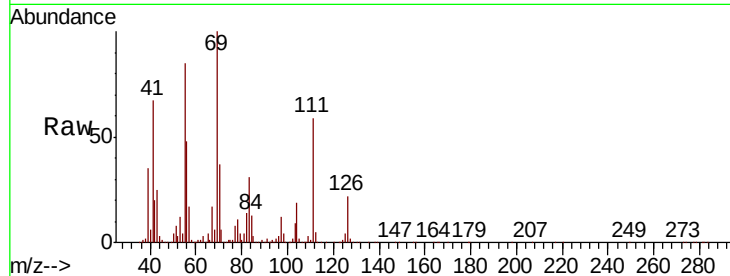
Acq: 25 Mar 2021 14:55

Instrument :

MSVOA_1

ClientSampleId :

SV2



Tot Ion:1

Ion Rati

104 100

78 73.

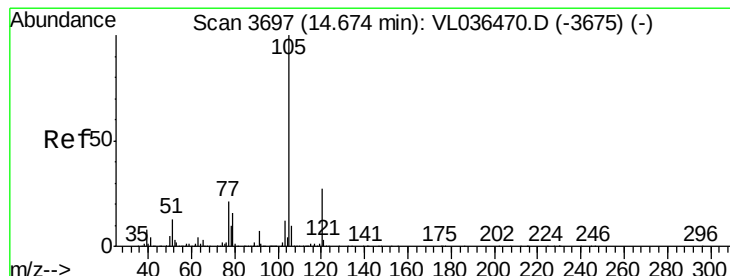
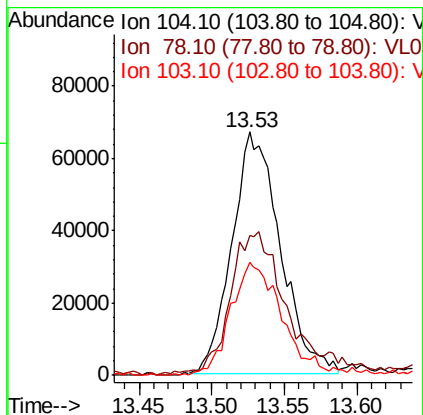
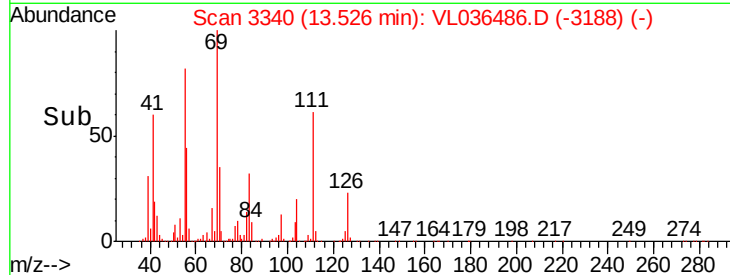
103 51.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/28/2021

Supervised By :Mahesh Dadoda 03/29/2021



#62

Isopropylbenzene

Concen: 0.408 ppbv

RT: 14.67 min Scan# 3696

Delta R.T. -0.00 min

Lab File: VL036486.D

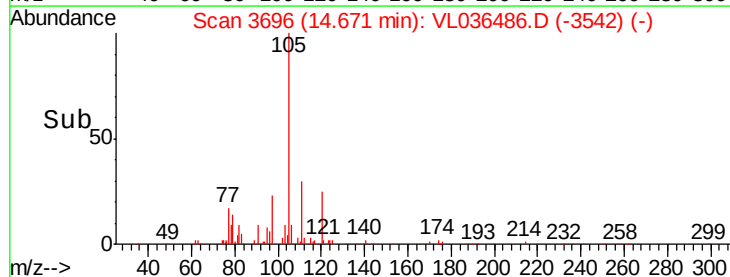
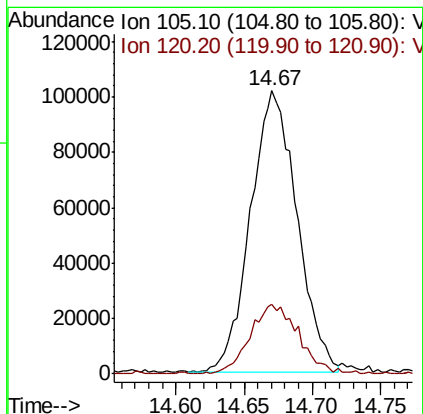
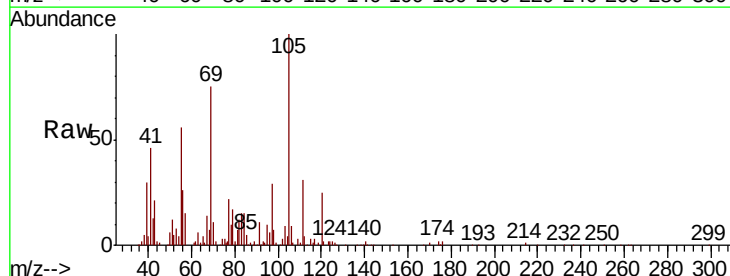
Acq: 25 Mar 2021 14:55

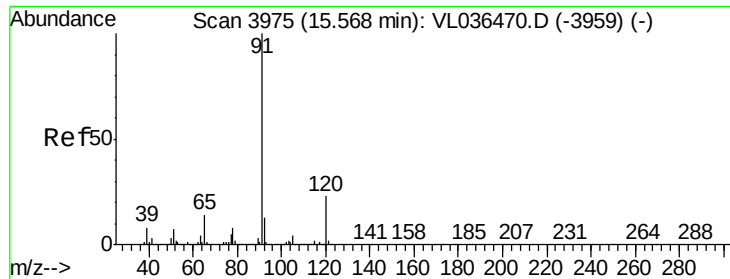
Tgt Ion:105 Resp: 240714

Ion Ratio Lower Upper

105 100

120 25.9 20.6 31.0





#64

n-propylbenzene

Concen: 0.724 ppbv

RT: 15.57

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2021 14:55

Tot Ion:1

Ion Ratio

120 100

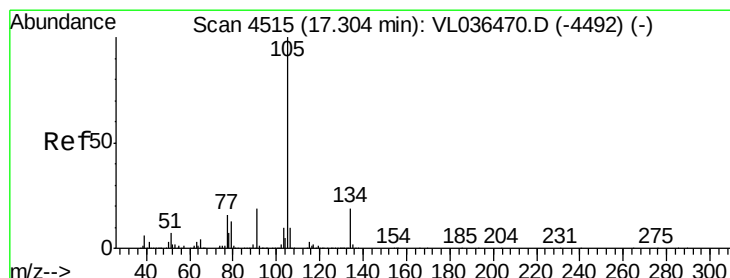
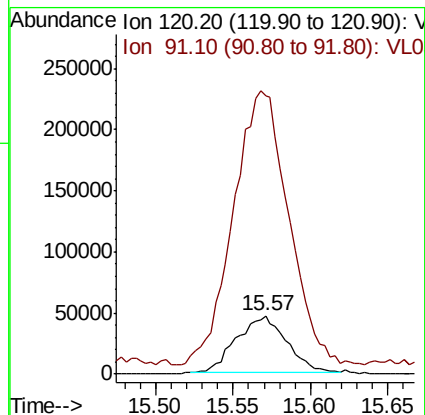
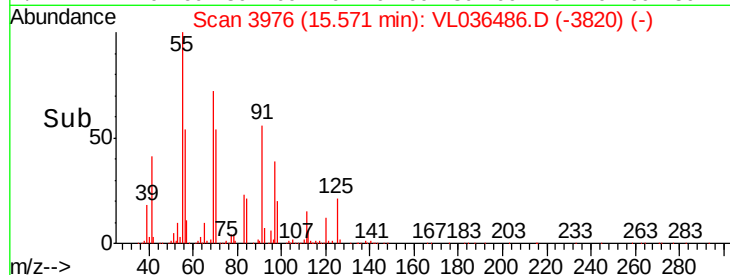
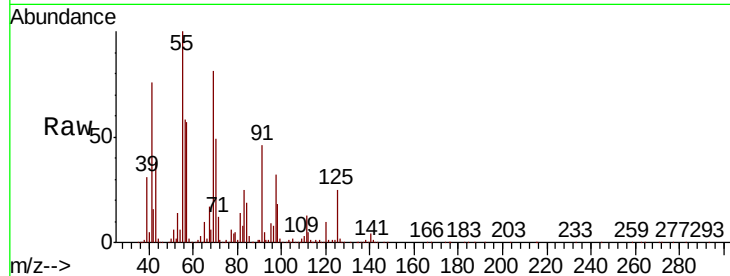
91 555.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/28/2021

Supervised By :Mahesh Dadoda 03/29/2021



#67

sec-Butylbenzene

Concen: 0.349 ppbv

RT: 17.30 min Scan# 4513

Delta R.T. -0.01 min

Lab File: VL036486.D

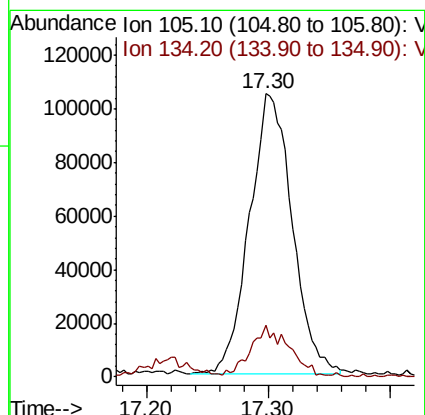
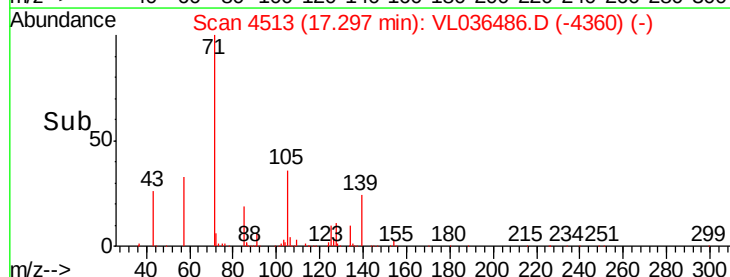
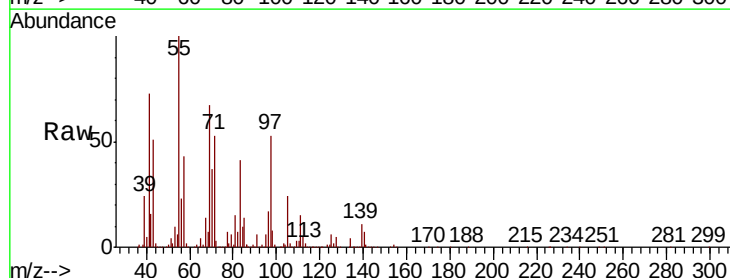
Acq: 25 Mar 2021 14:55

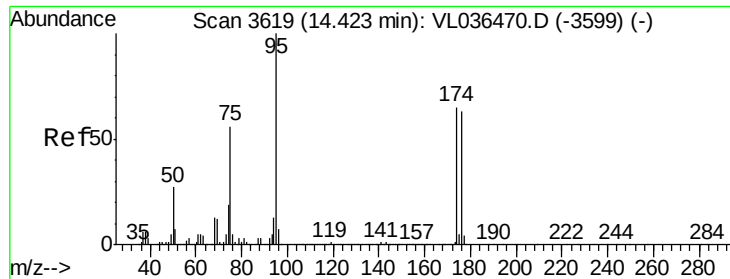
Tgt Ion:105 Resp: 252071

Ion Ratio Lower Upper

105 100

134 17.1 14.7 22.1



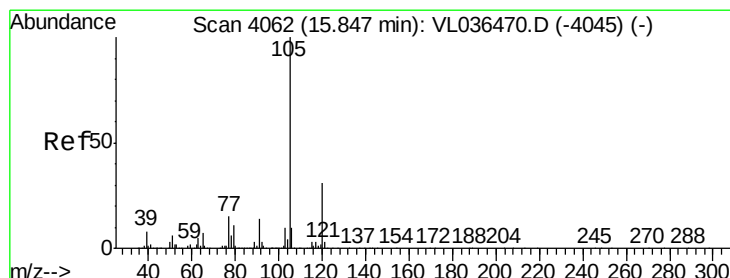
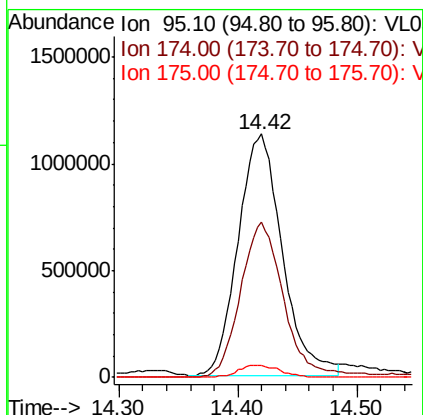
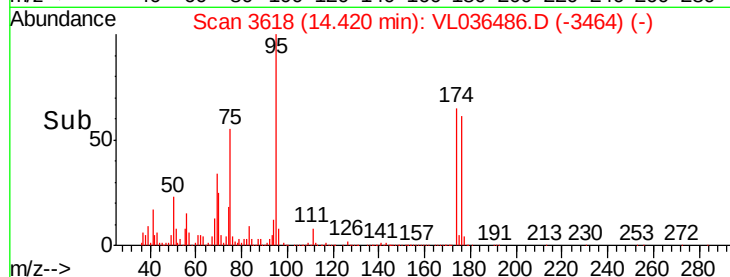
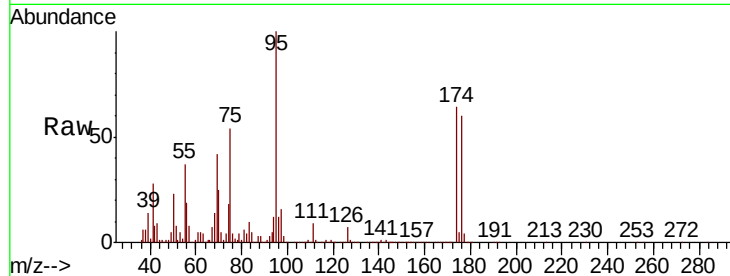


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.229 ppbv
 RT: 14.42 min
 Delta R.T.: MSVOA_L
 Lab File: ClientSampleId : SV2
 Acq: 25 Mar 2021 14:55

Tot Ion:
 Ion Ratio
 95 100
 174 65.
 175 5.

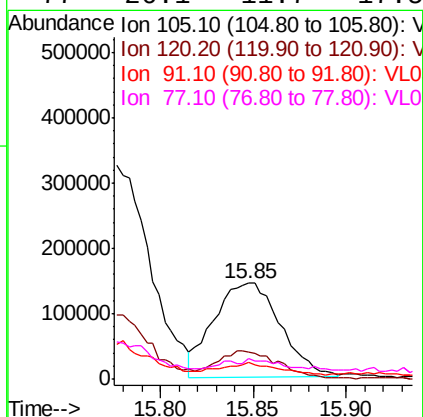
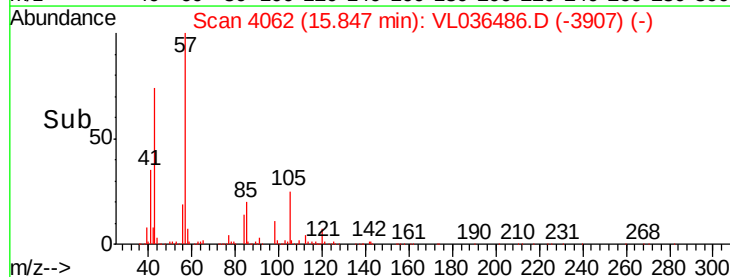
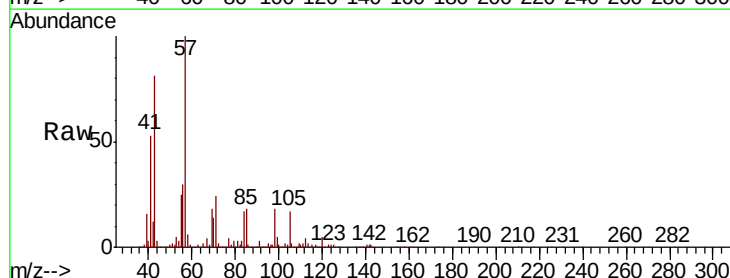
Manual Integrations
 APPROVED

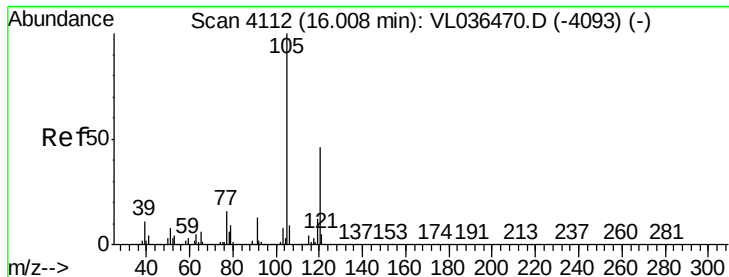
Reviewed By :Semsettin Yesilyurt 03/28/2021
 Supervised By :Mahesh Dadoda 03/29/2021



#72
 4-Ethyltoluene
 Concen: 0.748 ppbv
 RT: 15.85 min Scan# 4062
 Delta R.T.: -0.00 min
 Lab File: VL036486.D
 Acq: 25 Mar 2021 14:55

Tgt Ion:105 Resp: 358970
 Ion Ratio Lower Upper
 105 100
 120 30.1 24.0 36.0
 91 13.4 11.0 16.4
 77 26.1 11.7 17.5#





#73

1,3,5-Trimethylbenzene

Concen: 0.644 ppbv

RT: 16.00

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 25 Mar 2021 14:55

Tot Ion:1

Ion Rati

105 100

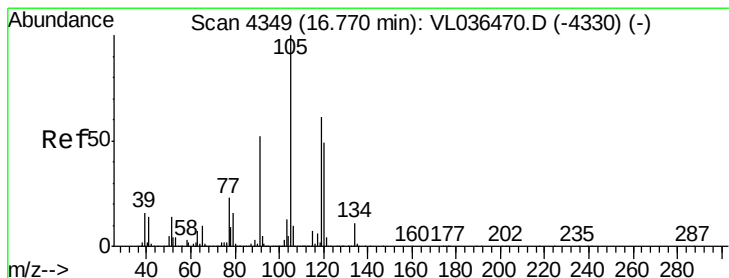
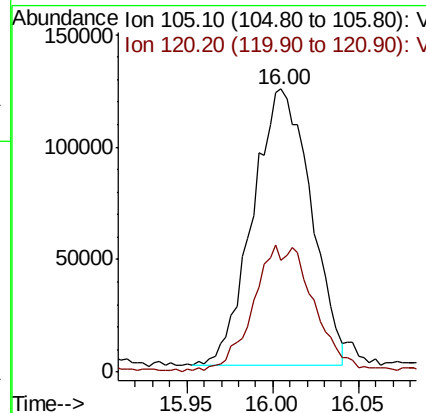
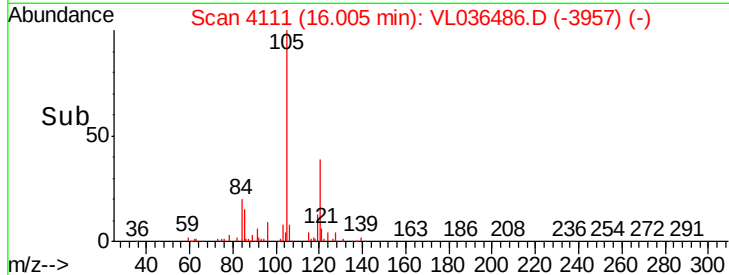
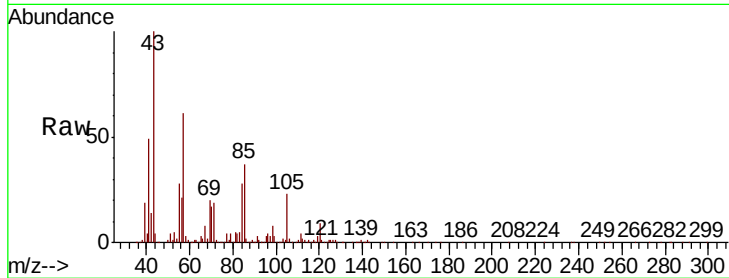
120 39.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/28/2021

Supervised By :Mahesh Dadoda 03/29/2021



#74

1,2,4-Trimethylbenzene

Concen: 1.477 ppbv

RT: 16.77 min Scan# 4349

Delta R.T. -0.00 min

Lab File: VL036486.D

Acq: 25 Mar 2021 14:55

Tgt Ion:105 Resp: 707379

Ion Ratio Lower Upper

105 100

120 39.7 39.2 58.8

91 12.0 42.6 64.0#

77 17.0 18.6 28.0#

