

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032521\
 Data File : VL036495.D
 Acq On : 25 Mar 2021 20:44
 Operator : SY/AP
 Sample : M1748-30
 Misc : 400ml/MSVOA L
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 UP-SG-1(2021)

Manual Integrations
 APPROVED

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

Quant Time: Mar 28 23:32:02 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	5.67	49	1454391	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3309979	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2982748	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2278491	9.58	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.80%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.05	85	42374	0.179	ppbv	91
4) Chloromethane	3.13	50	36479	0.380	ppbv	88
5) Vinyl Chloride	3.26	62	7985m	0.081	ppbv	
9) Propene	3.01	41	44238m	0.511	ppbv	
11) Trichlorofluoromethane	3.95	101	68143m	0.282	ppbv	
12) 1,1,2-Trichlorotrifluoroet	4.48	101	20965m	0.136	ppbv	
13) Ethanol	3.61	45	522004	50.602	ppbv	99
15) Acetone	3.85	43	1021637	7.137	ppbv	98
17) tert-Butyl alcohol	4.31	59	49660m	0.399	ppbv	
19) Isopropyl Alcohol	3.98	45	168261	2.137	ppbv #	72
20) Methylene Chloride	4.34	84	489862	7.309	ppbv	96
26) Hexane	5.69	57	596421	3.777	ppbv #	48
29) Chloroform	5.75	83	59003m	0.234	ppbv	
32) 1,1,1-Trichloroethane	6.52	97	13507m	0.053	ppbv	
34) 2-Butanone	5.25	43	87580	0.542	ppbv #	86
35) Carbon Tetrachloride	7.02	117	31447m	0.124	ppbv	
36) Benzene	6.89	78	43313	0.142	ppbv #	81
38) Trichloroethene	7.83	130	239156m	2.013	ppbv	
44) 2,2,4-Trimethylpentane	7.87	57	60214m	0.112	ppbv	
52) Tetrachloroethene	11.23	164	558400	4.967	ppbv	97
53) Toluene	9.81	91	65474m	0.201	ppbv	
59) m/p-Xylene	12.96	91	57629m	0.152	ppbv	

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

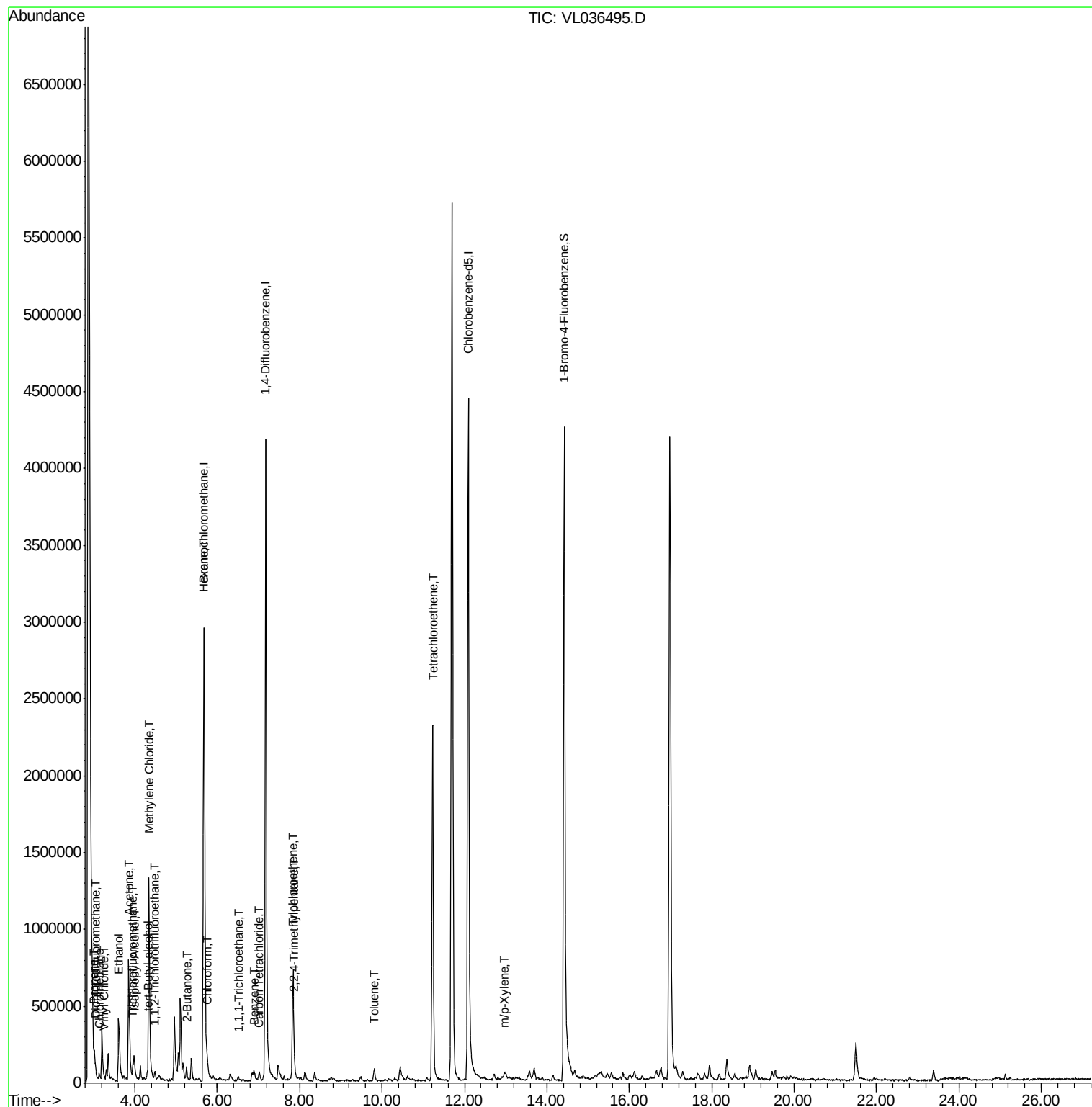
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032521\
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UP-SG-1(2021)

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2021 20:44

Tot Ion:

Ion Ratio

49 100

128 44.

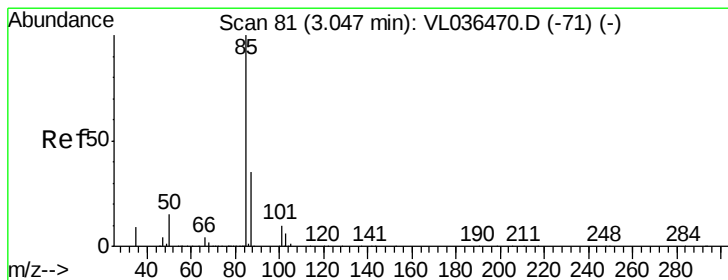
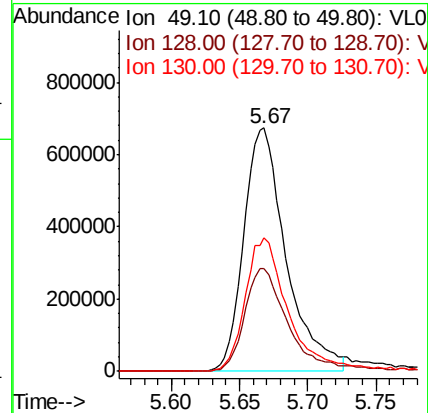
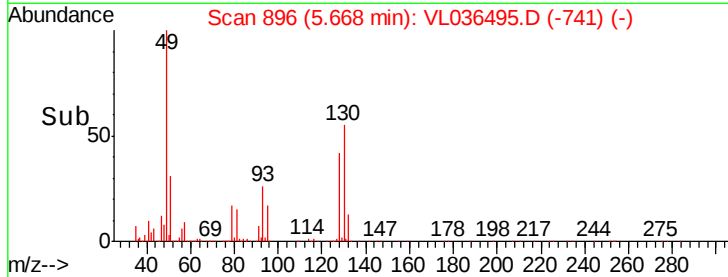
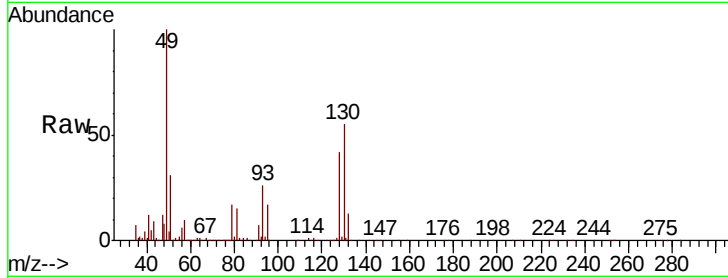
130 57.

Manual Integrations

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Supervised By :Mahesh Dadoda 03/29/2021



#2

Dichlorodifluoromethane

Concen: 0.179 ppbv

RT: 3.05 min Scan# 81

Delta R.T. 0.00 min

Lab File: VL036495.D

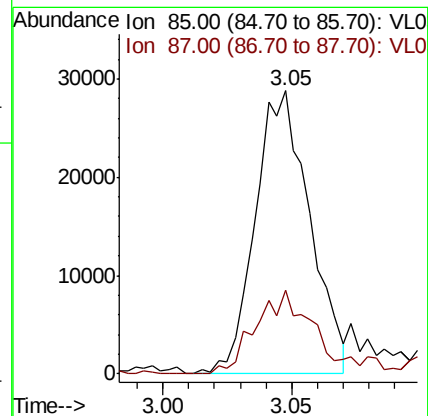
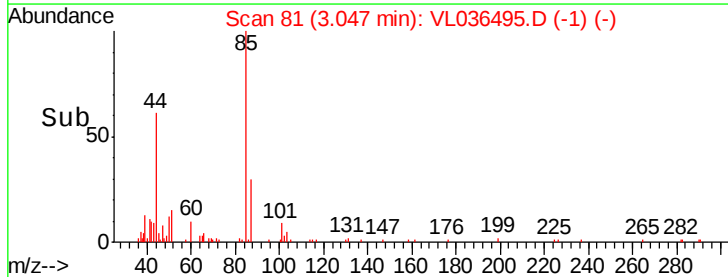
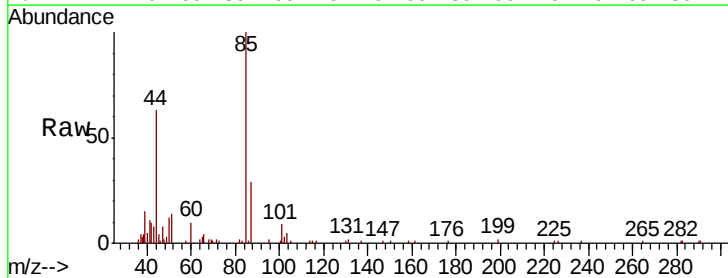
Acq: 25 Mar 2021 20:44

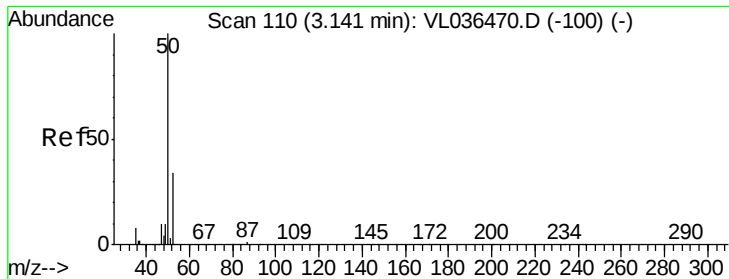
Tgt Ion: 85 Resp: 42374

Ion Ratio Lower Upper

85 100

87 29.5 27.8 41.8





#4

Chloromethane

Concen: 0.380 ppbv

RT: 3.13 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 25 Mar 2021 20:44

Tot Ion:

Ion Ratio

50 100

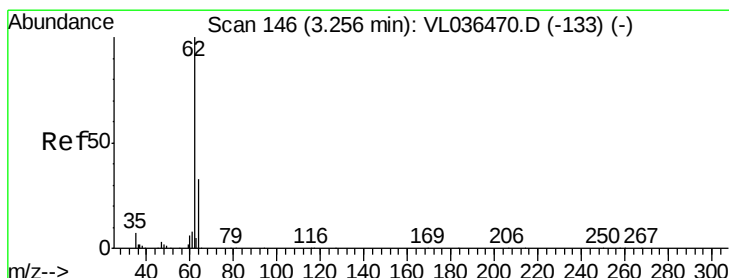
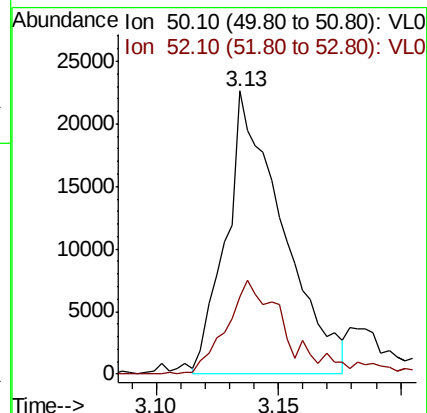
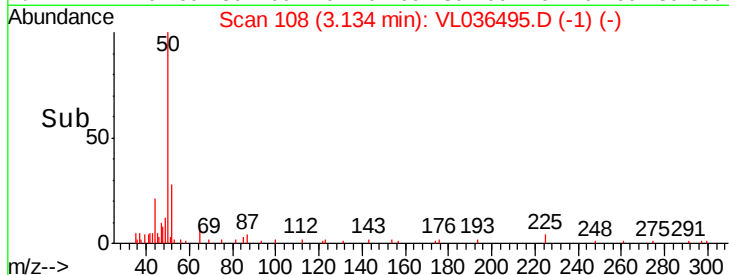
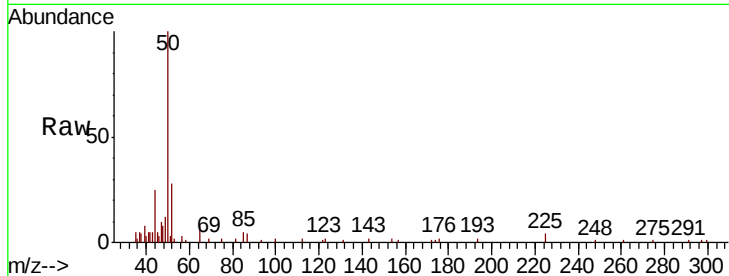
52 27.

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Reviewed By :Semsettin Yesilyurt 03/26/2021

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#5

Vinyl Chloride

Concen: 0.081 ppbv m

RT: 3.26 min Scan# 146

Delta R.T. 0.00 min

Lab File: VL036495.D

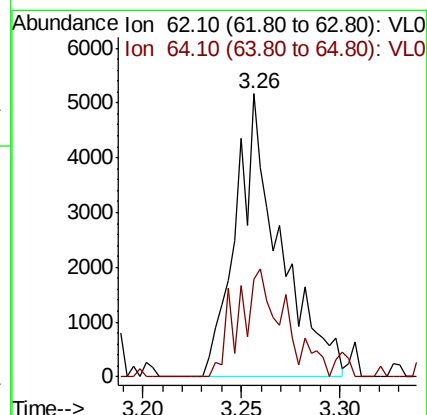
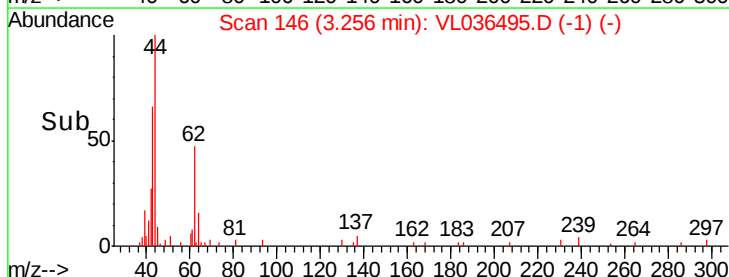
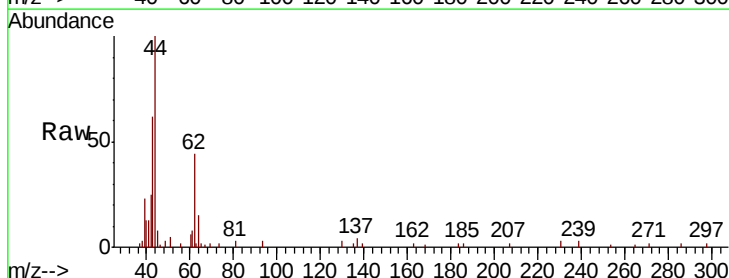
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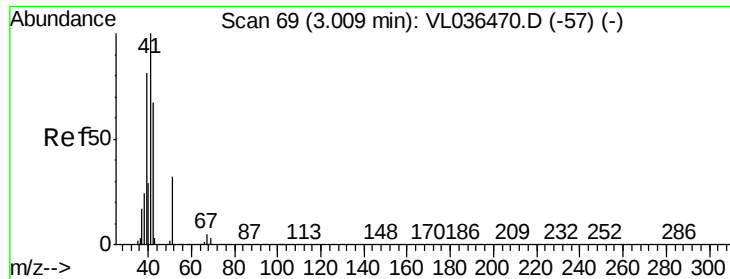
Tgt Ion: 62 Resp: 7985

Ion Ratio Lower Upper

62 100

64 34.5 26.4 39.6





#9

Propene

Concen: 0.511 ppbv m

RT: 3.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2021 20:44

Tot Ion:

Ion Ratio

41 100

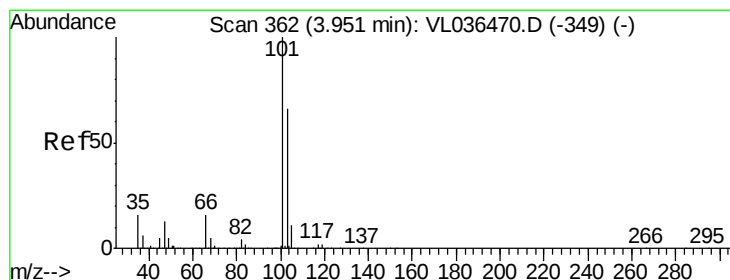
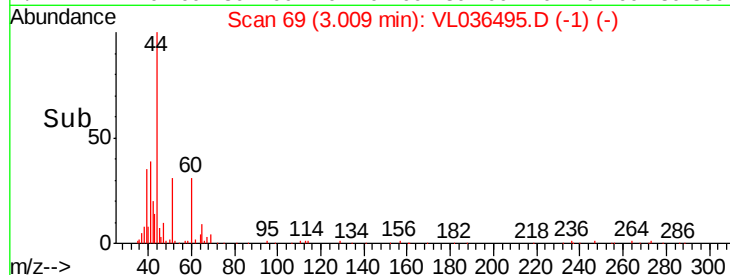
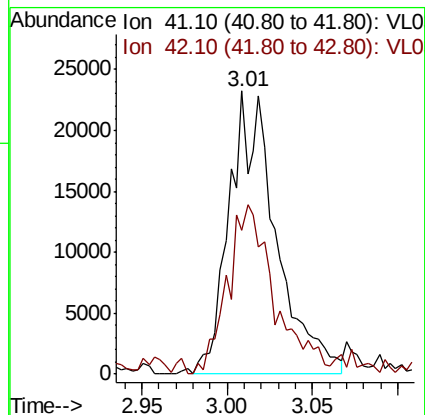
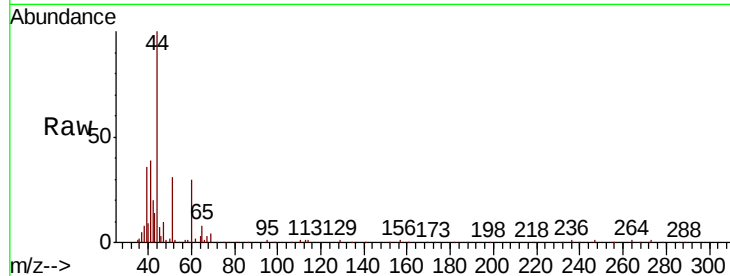
42 65.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/26/2021

Supervised By :Mahesh Dadoda 03/29/2021



#11

Trichlorofluoromethane

Concen: 0.282 ppbv m

RT: 3.95 min Scan# 361

Delta R.T. -0.00 min

Lab File: VL036495.D

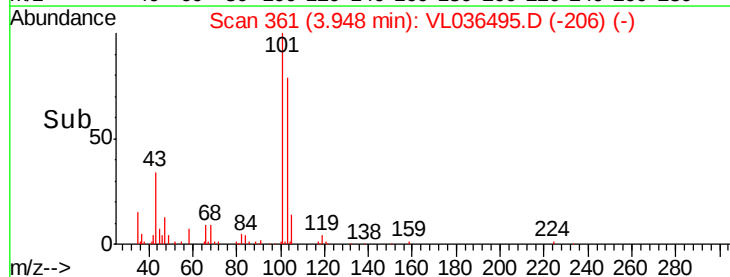
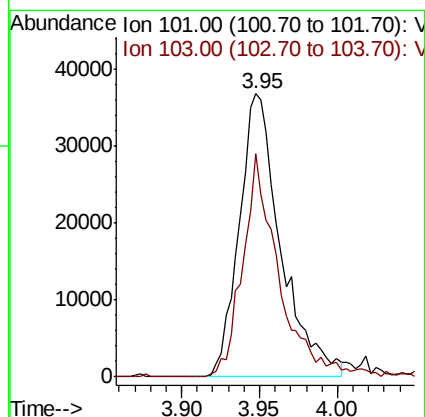
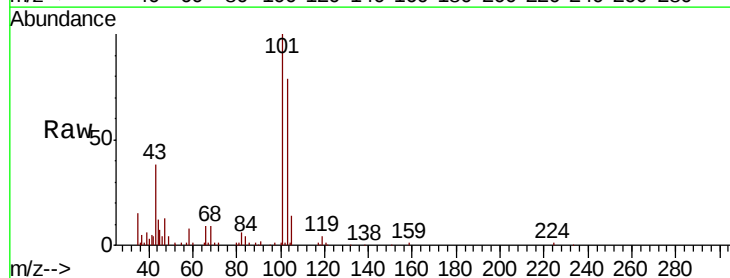
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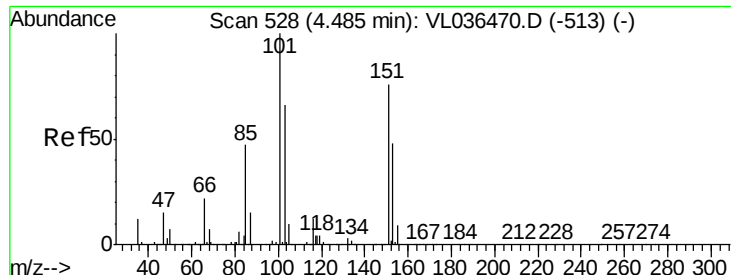
Tgt Ion:101 Resp: 68143

Ion Ratio Lower Upper

101 100

103 79.0 52.5 78.7#



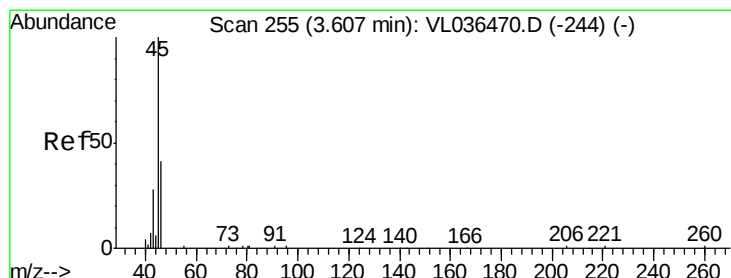
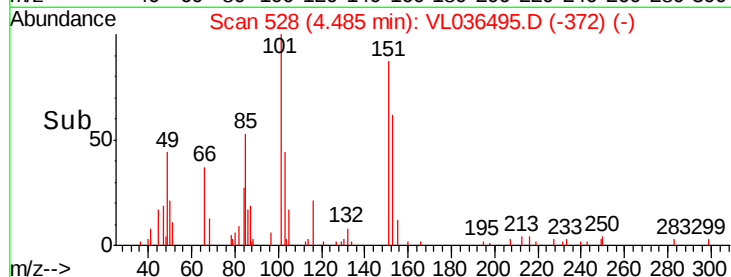
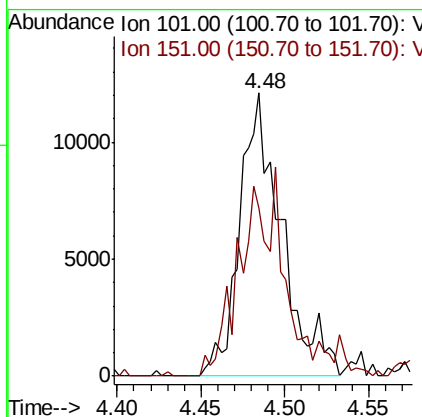
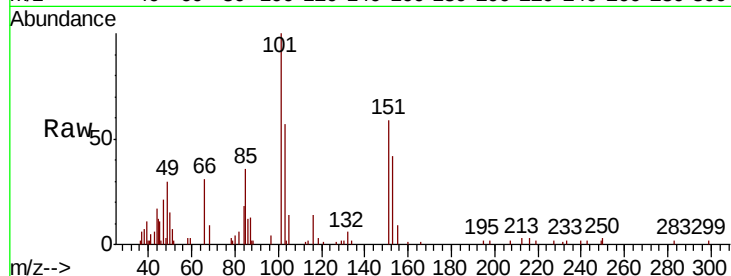


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.136 ppbv m
 RT: 4.48
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId :
 UP-SG-1(2021)
 Acq: 25 Mar 2021 20:44

Tot Ion:1
 Ion Rati
 101 100
 151 79.

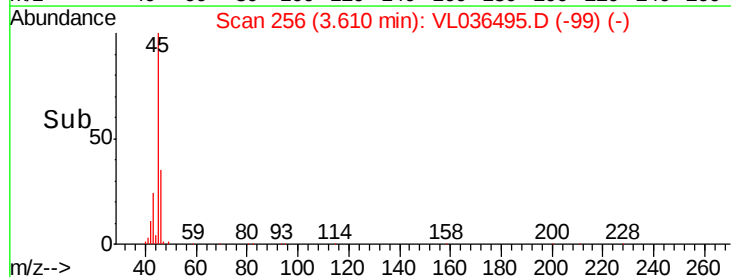
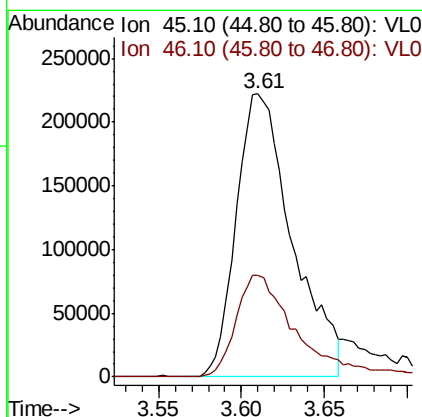
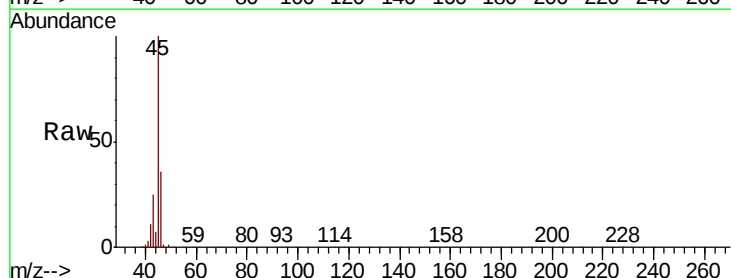
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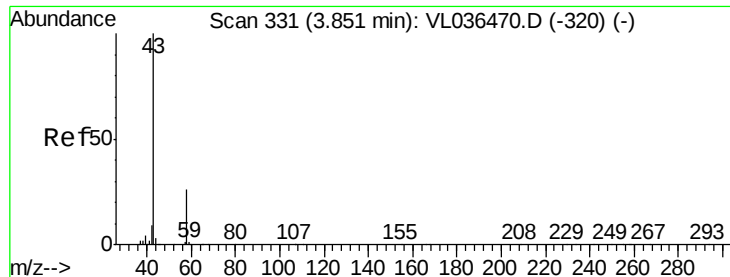
Reviewed By :Semsettin Yesilyurt 03/26/2021
 Supervised By :Mahesh Dadoda 03/29/2021



#13
 Ethanol
 Concen: 50.602 ppbv
 RT: 3.61 min Scan# 256
 Delta R.T. 0.00 min
 Lab File: VL036495.D
 Acq: 25 Mar 2021 20:44

Tgt Ion: 45 Resp: 522004
 Ion Ratio Lower Upper
 45 100
 46 40.5 16.6 66.2





#15

Acetone

Concen: 7.137 ppbv

RT: 3.85

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 25 Mar 2021 20:44

Tot Ion:

Ion Ratio

43 100

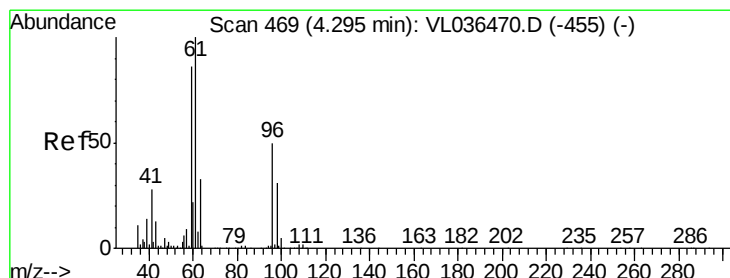
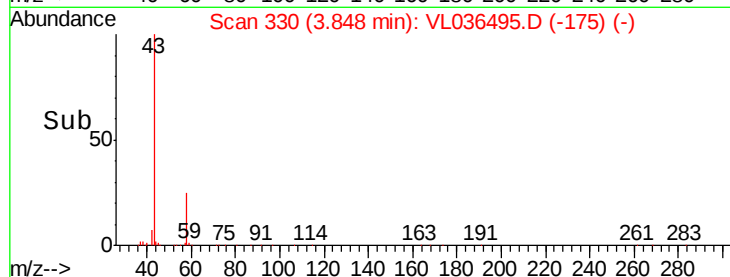
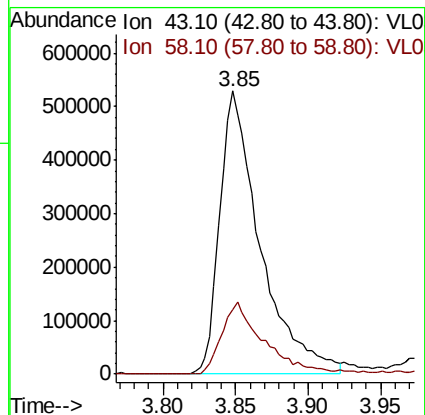
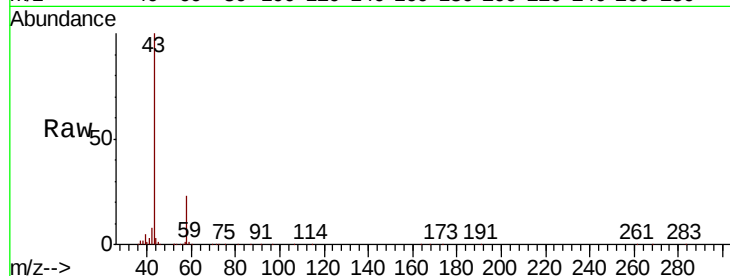
58 27.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/26/2021

Supervised By :Mahesh Dadoda 03/29/2021



#17

tert-Butyl alcohol

Concen: 0.399 ppbv m

RT: 4.31 min Scan# 474

Delta R.T. 0.02 min

Lab File: VL036495.D

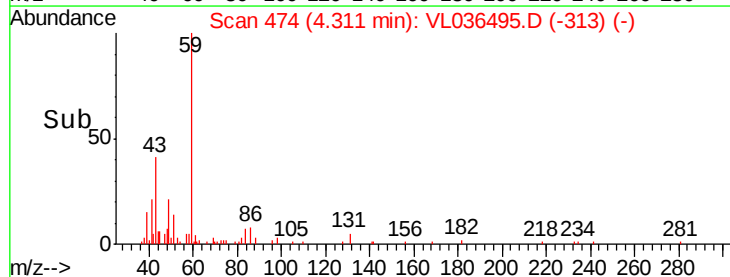
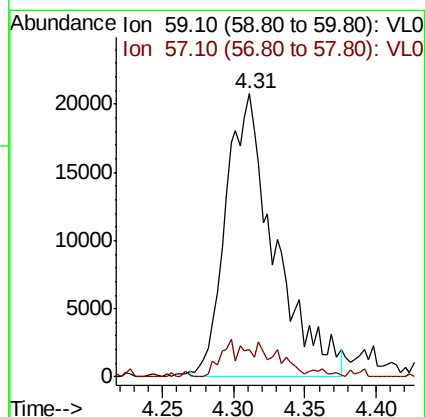
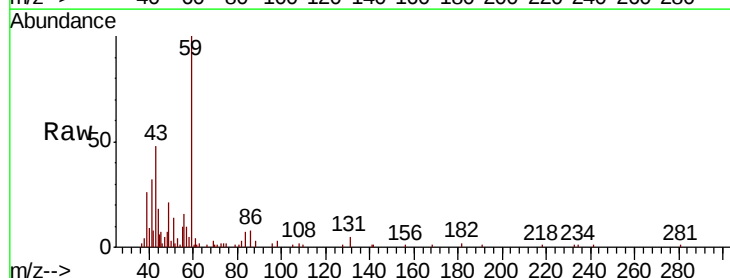
Acq: 25 Mar 2021 20:44

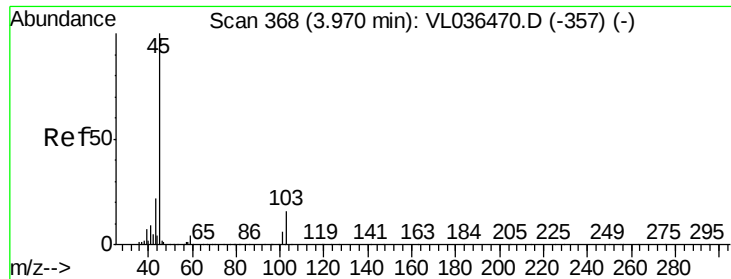
Tgt Ion: 59 Resp: 49660

Ion Ratio Lower Upper

59 100

57 14.5 8.6 12.8#





#19

Isopropyl Alcohol

Concen: 2.137 ppbv

RT: 3.98

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 25 Mar 2021 20:44

Tot Ion:

Ion Ratio

45 100

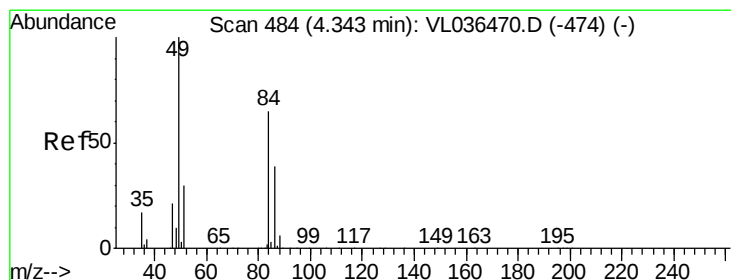
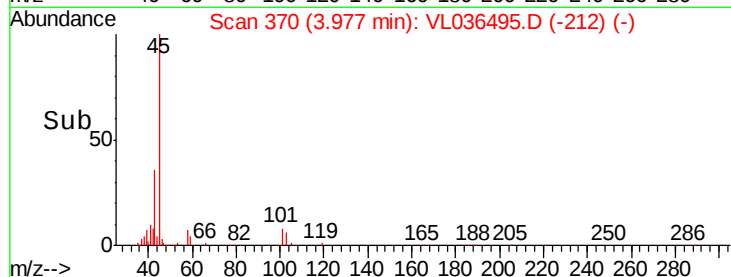
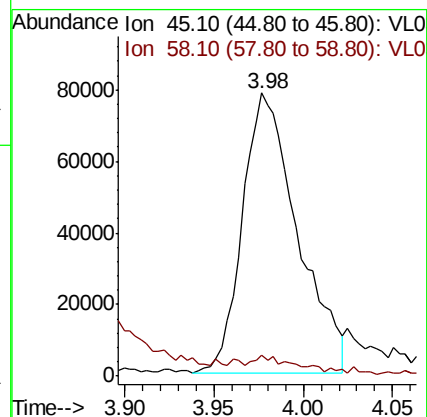
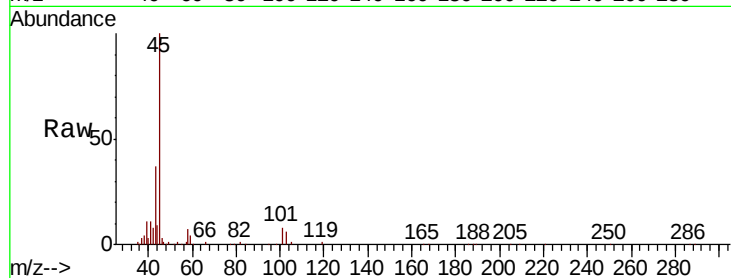
58 12.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/26/2021

Supervised By :Mahesh Dadoda 03/29/2021



#20

Methylene Chloride

Concen: 7.309 ppbv

RT: 4.34 min Scan# 484

Delta R.T. 0.00 min

Lab File: VL036495.D

Acq: 25 Mar 2021 20:44

Tgt Ion: 84 Resp: 489862

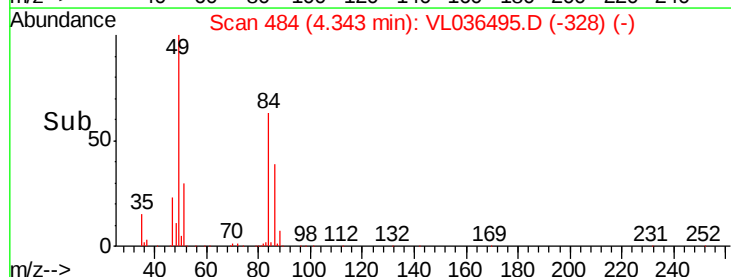
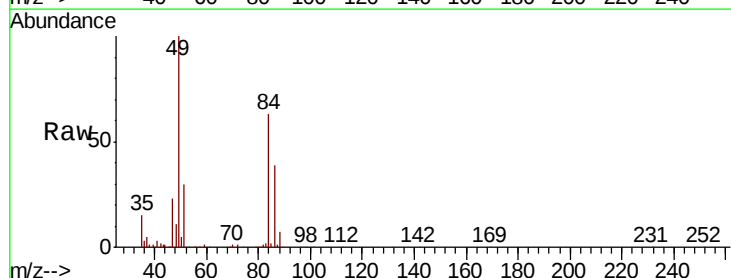
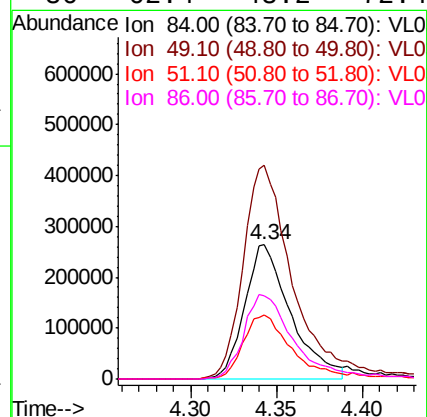
Ion Ratio Lower Upper

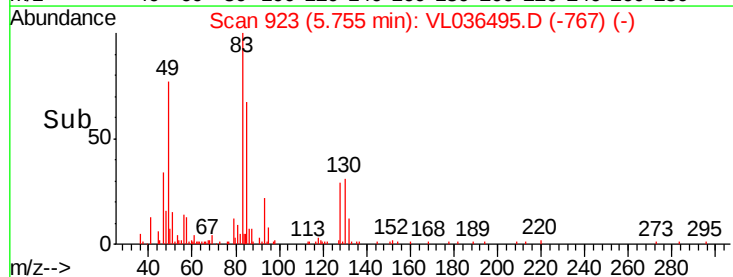
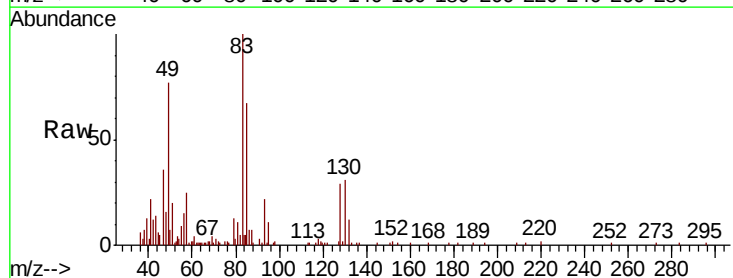
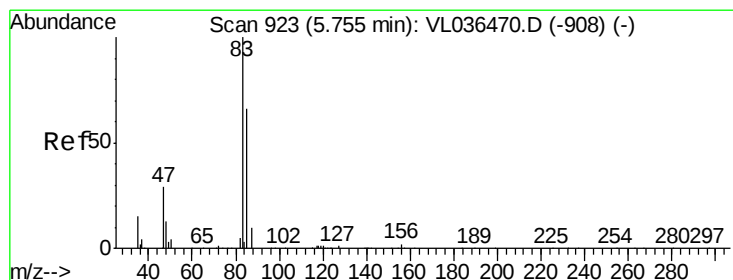
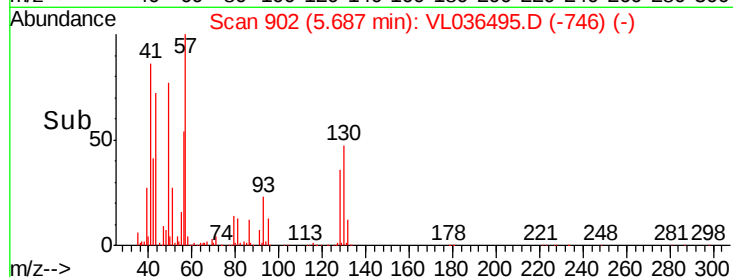
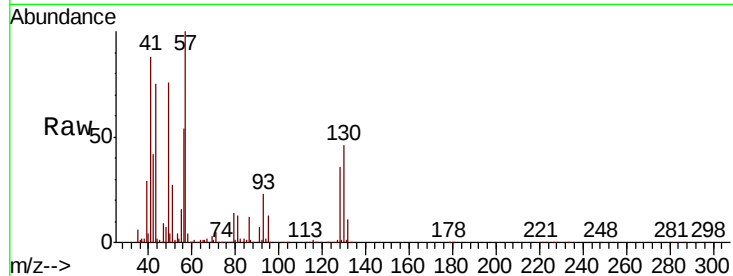
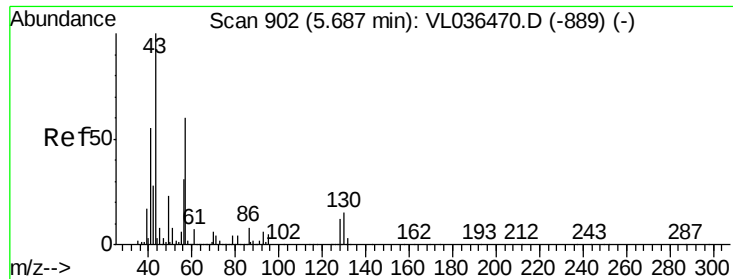
84 100

49 159.2 122.9 184.3

51 47.6 36.9 55.3

86 62.4 48.2 72.4





#26

Hexane

Concen: 3.777 ppbv

RT: 5.69

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 25 Mar 2021 20:44

Tot Ion:

Ion Ratio

57 100

41 98.

43 78.

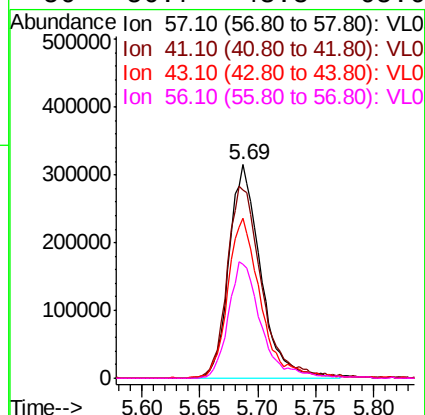
56 56.7 43.8 65.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/26/2021

Supervised By :Mahesh Dadoda 03/29/2021



#29

Chloroform

Concen: 0.234 ppbv m

RT: 5.75 min Scan# 923

Delta R.T. 0.00 min

Lab File: VL036495.D

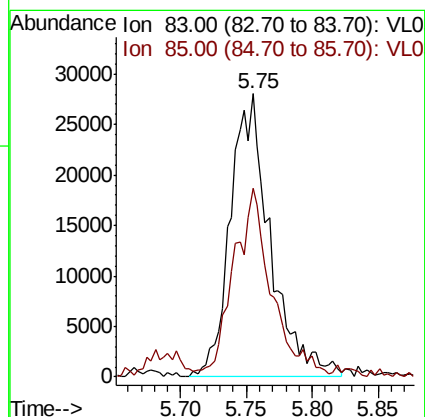
Acq: 25 Mar 2021 20:44

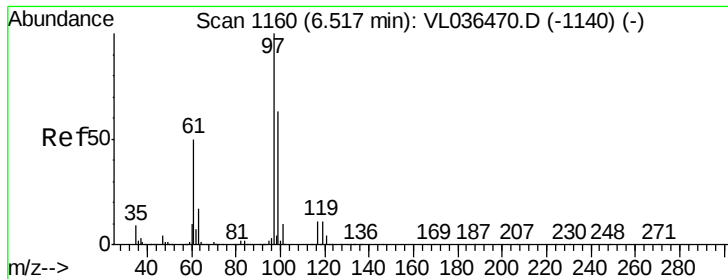
Tgt Ion: 83 Resp: 59003

Ion Ratio Lower Upper

83 100

85 66.7 52.6 78.8





#32

1,1,1-Trichloroethane

Concen: 0.053 ppbv m

RT: 6.52 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2021 20:44

Tot Ion:

Ion Ratio

97 100

99 0.

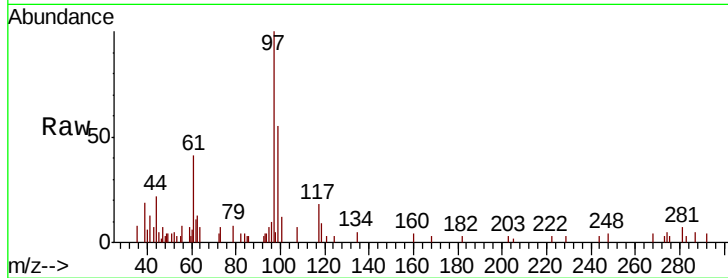
61 64.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/26/2021

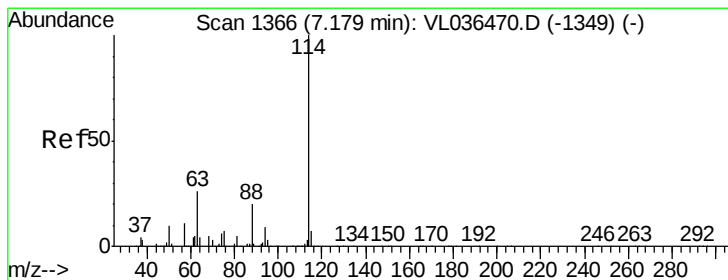
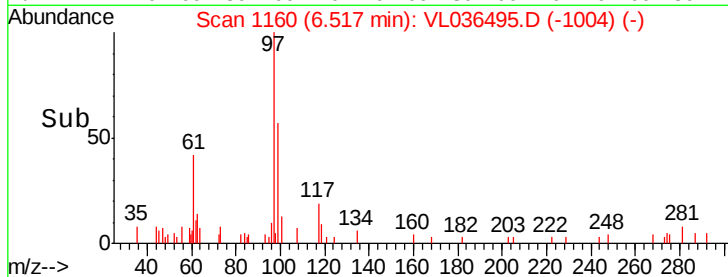
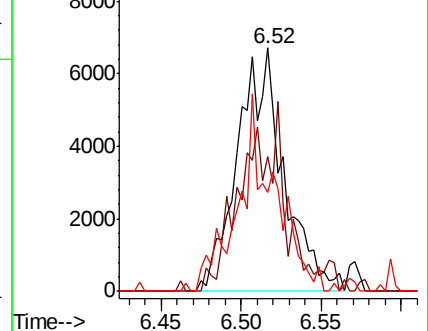
Supervised By :Mahesh Dadoda 03/29/2021



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: 7.18 min Scan# 1365

Delta R.T. -0.00 min

Lab File: VL036495.D

Acq: 25 Mar 2021 20:44

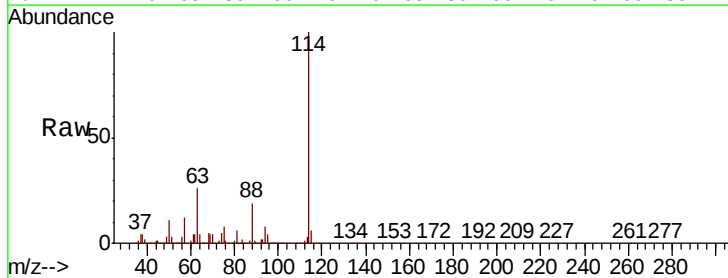
Tgt Ion:114 Resp: 3309979

Ion Ratio Lower Upper

114 100

63 28.6 22.4 33.6

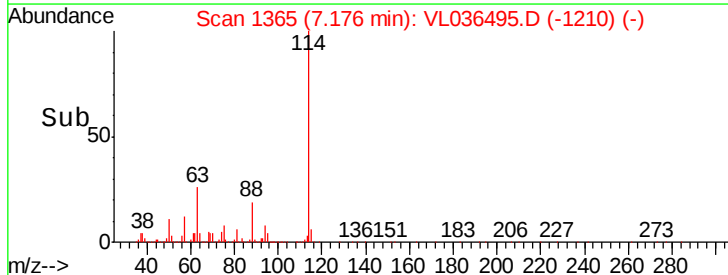
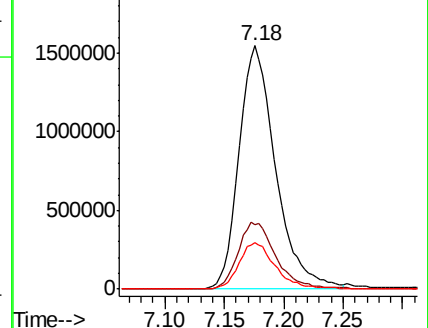
88 19.2 15.4 23.0

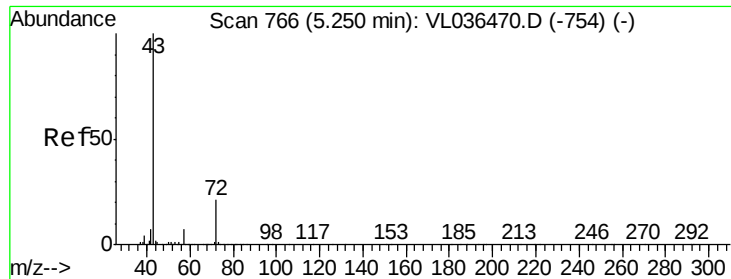


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



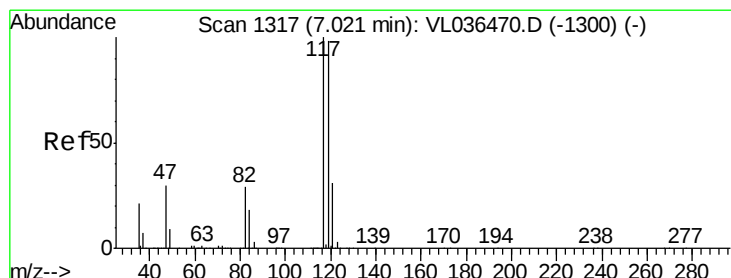
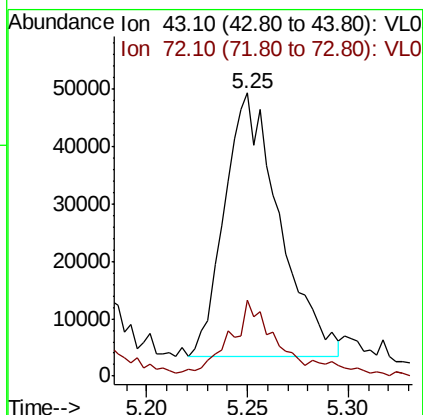
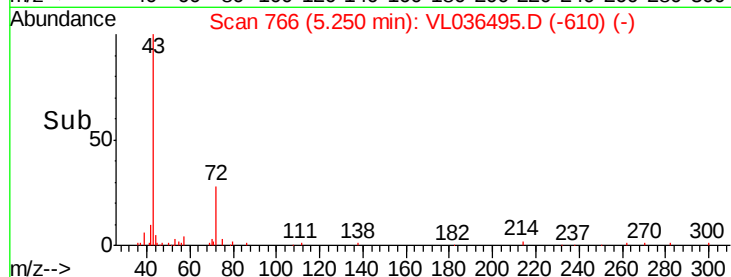
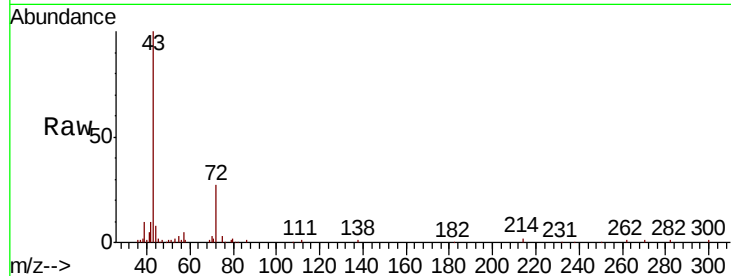


#34
2-Butanone
Concen: 0.542 ppbv
RT: 5.25
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
UP-SG-1(2021)
Acq: 25 Mar 2021 20:44

Tot Ion:
Ion Ratio
43 100
72 27.

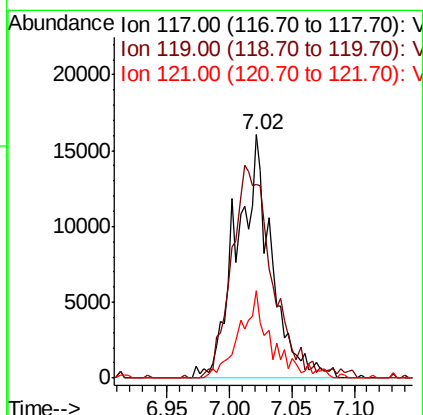
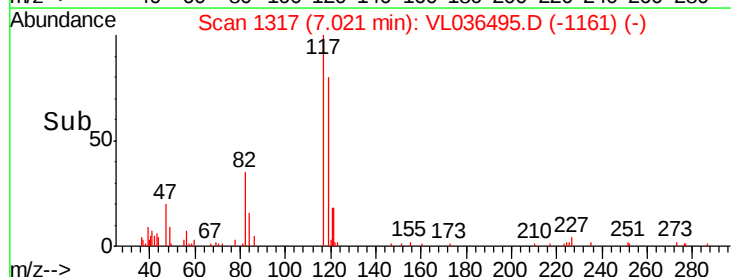
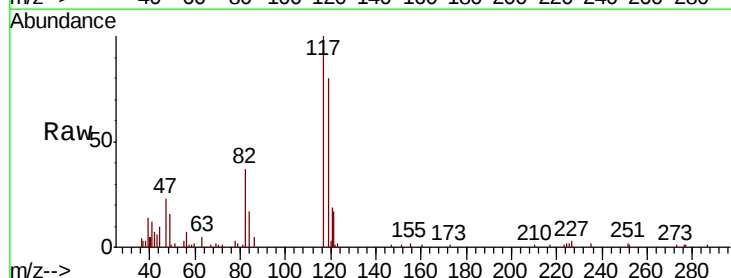
Manual Integrations
APPROVED

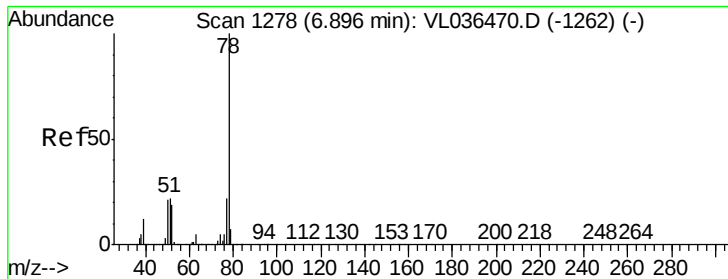
Reviewed By :Semsettin Yesilyurt 03/26/2021
Supervised By :Mahesh Dadoda 03/29/2021



#35
Carbon Tetrachloride
Concen: 0.124 ppbv m
RT: 7.02 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VL036495.D
Acq: 25 Mar 2021 20:44

Tgt Ion:117 Resp: 31447
Ion Ratio Lower Upper
117 100
119 79.6 78.2 117.2
121 18.6 24.5 36.7#



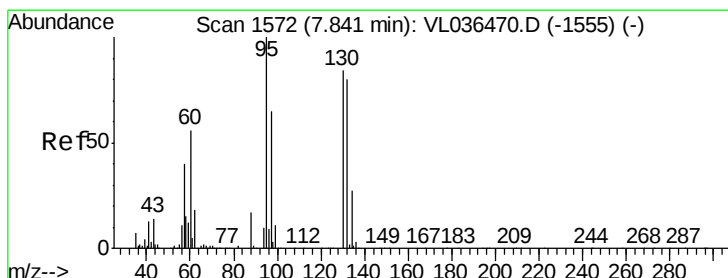
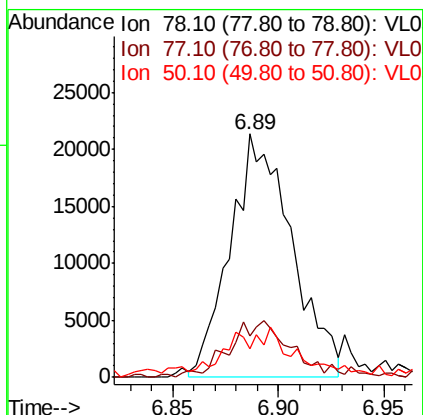
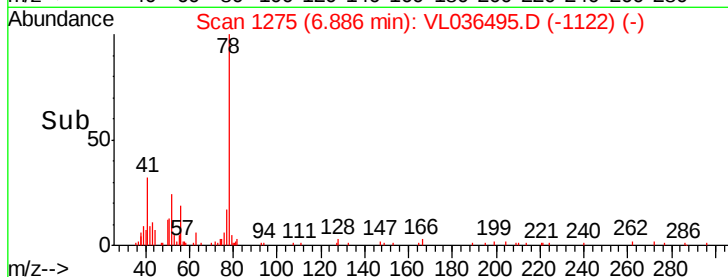
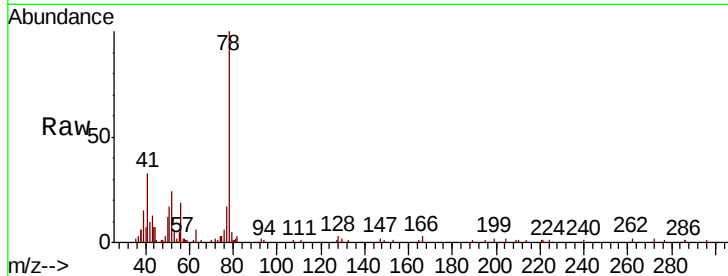


#36
Benzene
Concen: 0.142 ppbv
RT: 6.89
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
UP-SG-1(2021)
Acq: 25 Mar 2021 20:44

Tot Ion:
Ion Ratio
78 100
77 15.
50 10.

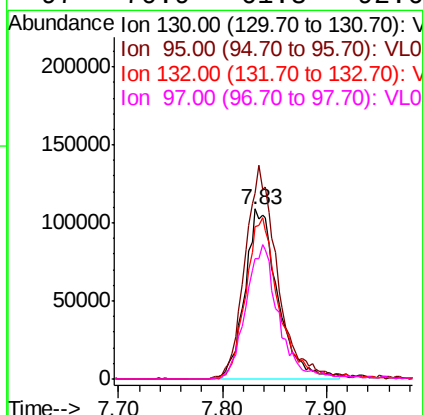
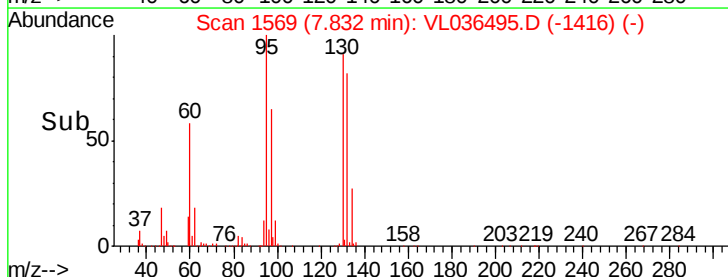
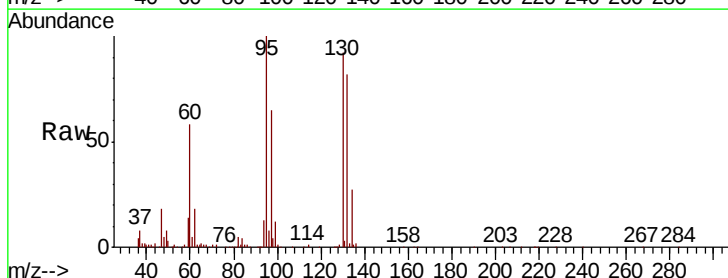
Manual Integrations
APPROVED

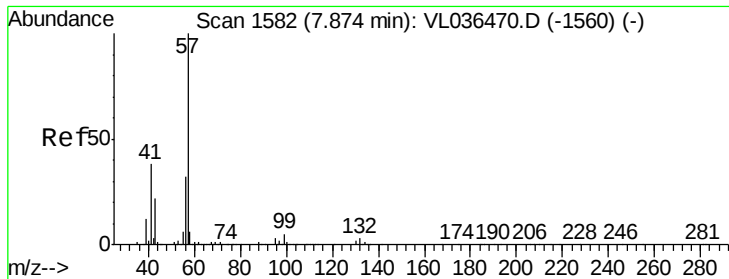
Reviewed By :Semsettin Yesilyurt 03/26/2021
Supervised By :Mahesh Dadoda 03/29/2021



#38
Trichloroethene
Concen: 2.013 ppbv m
RT: 7.83 min Scan# 1569
Delta R.T. -0.01 min
Lab File: VL036495.D
Acq: 25 Mar 2021 20:44

Tgt Ion:130 Resp: 239156
Ion Ratio Lower Upper
130 100
95 109.3 95.7 143.5
132 89.8 76.2 114.4
97 70.9 61.8 92.6





#44

2,2,4-Trimethylpentane

Concen: 0.112 ppbv m

RT: 7.87 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2021 20:44

Tot Ion:

Ion Ratio

57 100

41 0.

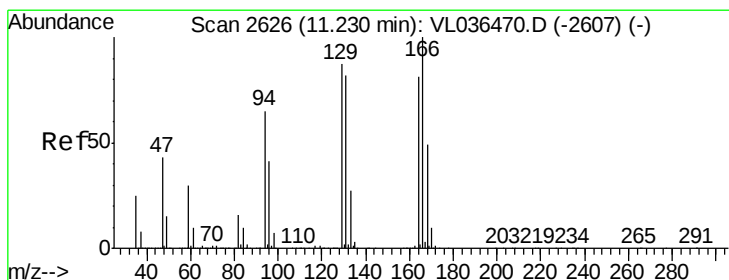
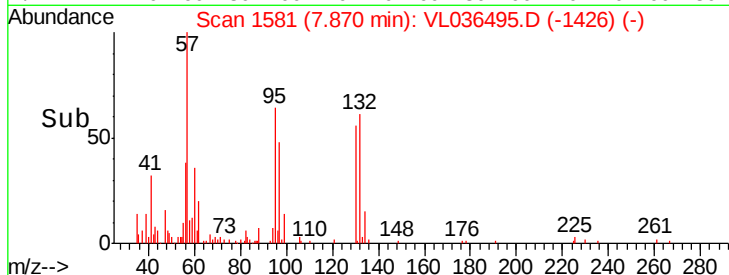
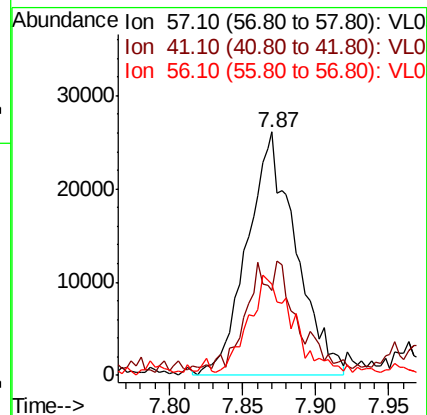
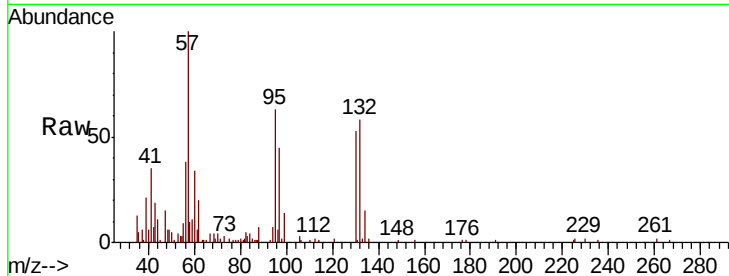
56 37.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/26/2021

Supervised By :Mahesh Dadoda 03/29/2021



#52

Tetrachloroethene

Concen: 4.967 ppbv

RT: 11.23 min Scan# 2626

Delta R.T. 0.00 min

Lab File: VL036495.D

Acq: 25 Mar 2021 20:44

Tgt Ion:164 Resp: 558400

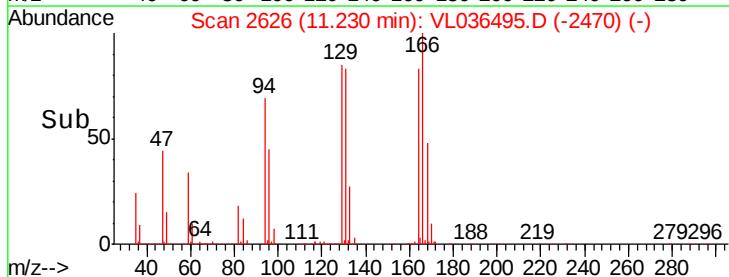
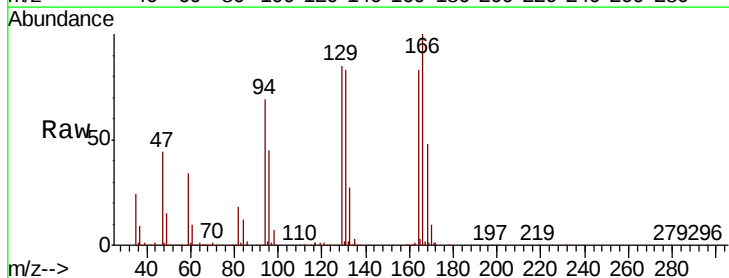
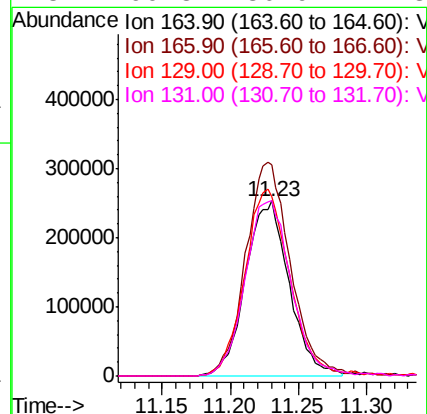
Ion Ratio Lower Upper

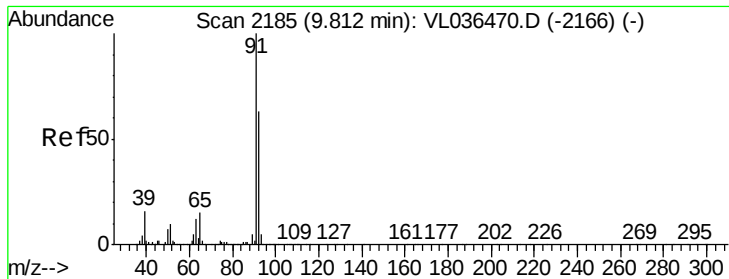
164 100

166 120.5 98.3 147.5

129 102.1 85.8 128.8

131 99.8 80.9 121.3





#53

Toluene

Concen: 0.201 ppbv m

RT: 9.81 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampled:

Acq: 25 Mar 2021 20:44 UP-SG-1(2021)

Tot Ion:

Ion Ratio

91 100

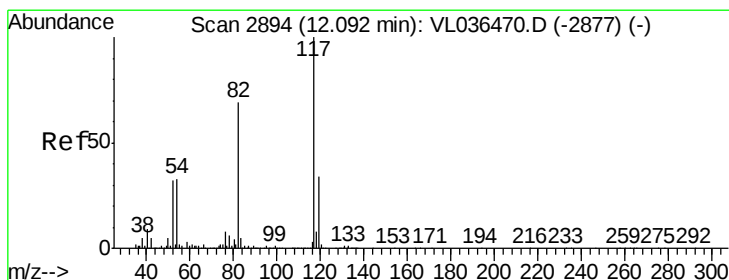
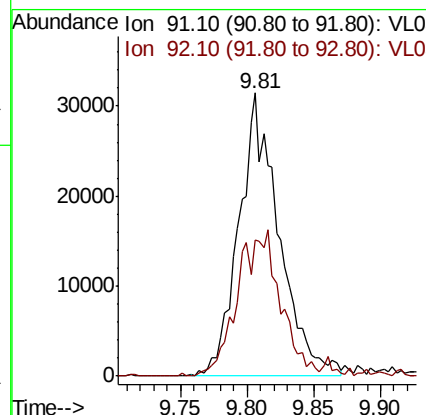
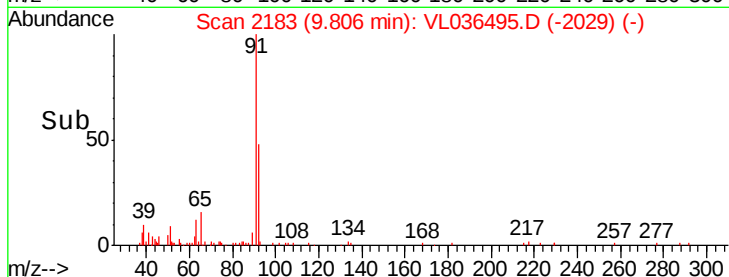
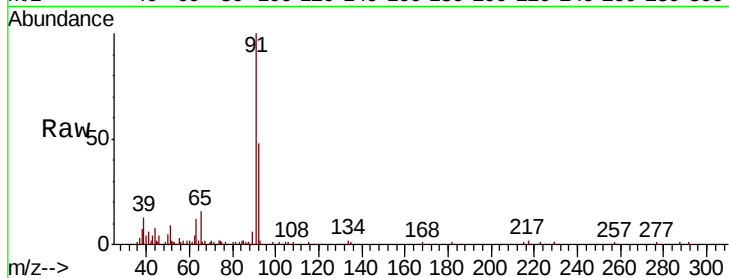
92 0.

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: 12.09 min Scan# 2893

Delta R.T. -0.00 min

Lab File: VL036495.D

Acq: 25 Mar 2021 20:44

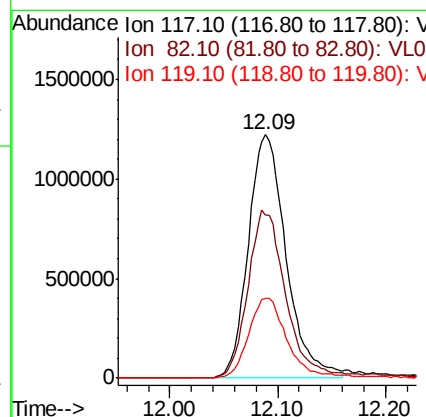
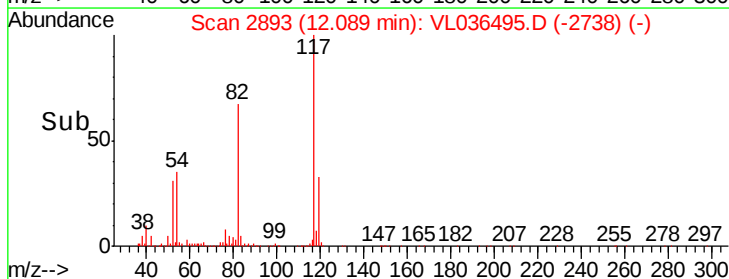
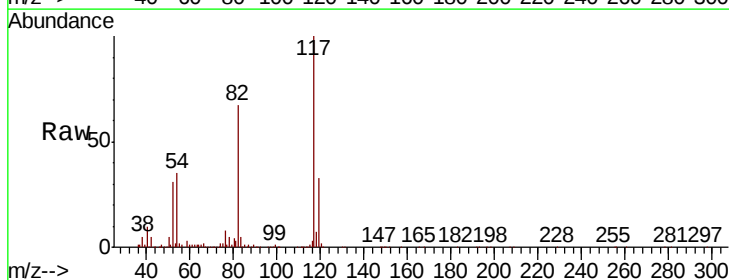
Tgt Ion:117 Resp: 2982748

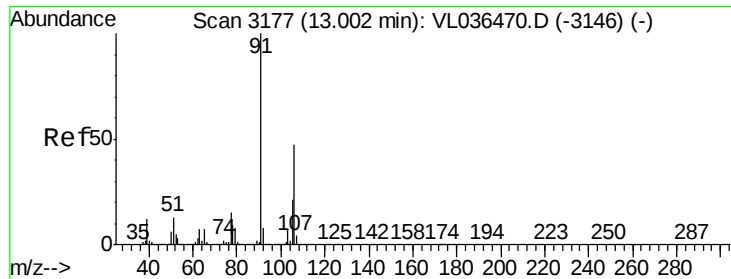
Ion Ratio Lower Upper

117 100

82 71.3 57.4 86.0

119 34.1 47.4 71.0#



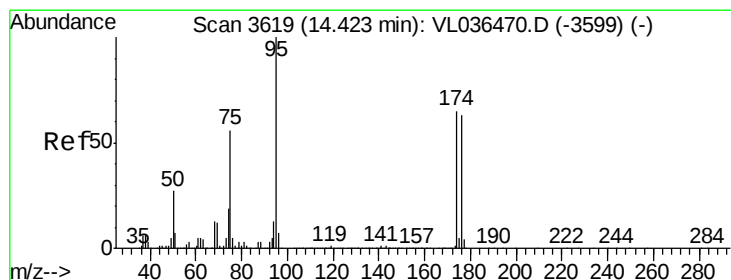
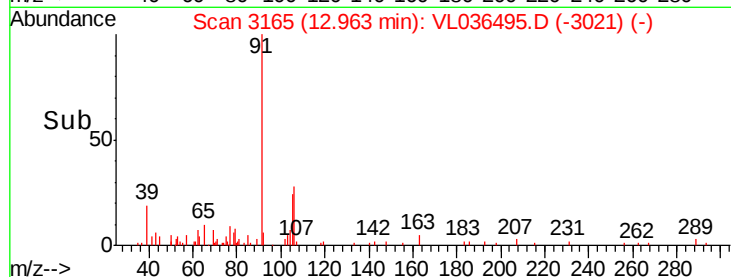
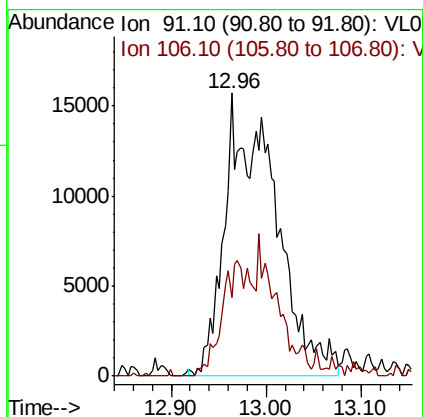
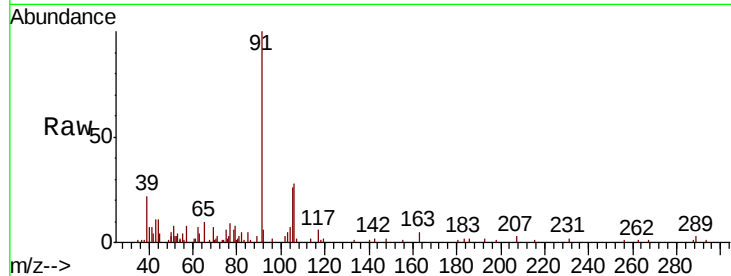


#59
m/p-Xylene
Concen: 0.152 ppbv m
RT: 12.96
Instrument: MSVOA_1
Delta R.T.:
ClientSampleId:
Lab File: UP-SG-1(2021)
Acq: 25 Mar 2021 20:44

Tot Ion:
Ion Ratio
91 100
106 44.

Manual Integrations
APPROVED

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



#68
1-Bromo-4-Fluorobenzene
Concen: 9.584 ppbv
RT: 14.42 min Scan# 3618
Delta R.T. -0.00 min
Lab File: VL036495.D
Acq: 25 Mar 2021 20:44

Tgt Ion: 95 Resp: 2278491
Ion Ratio Lower Upper
95 100
174 65.3 51.0 76.6
175 5.0 3.9 5.9

