

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032122\
 Data File : VL038673.D
 Acq On : 22 Mar 2022 5:55
 Operator : SY/AP
 Sample : N1964-15
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P85

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/24/2022
 Supervised By :Mahesh Dadoda 03/24/2022

Quant Time: Mar 22 06:47:27 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032122AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 22 2022

QLast Update : Mon Mar 21 17:09:26 2022

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.655	49	855201	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.160	114	2154230	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.069	117	1926760	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.397	95	1400495	9.481	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.800%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	3.044	85	23815	0.207	ppbv	93
3) Chlorodifluoromethane	2.983	51	24983m	0.277	ppbv	
4) Chloromethane	3.134	50	11590	0.234	ppbv	97
9) Propene	3.012	41	26093	0.598	ppbv	86
11) Trichlorofluoromethane	3.941	101	22502	0.222	ppbv	97
13) Ethanol	3.604	45	63963	13.297	ppbv	97
15) Acetone	3.842	43	181389	2.458	ppbv #	78
17) tert-Butyl alcohol	4.295	59	8963m	0.139	ppbv	
20) Methylene Chloride	4.333	84	618556	19.901	ppbv	97
26) Hexane	5.674	57	266601	3.206	ppbv #	39
29) Chloroform	5.739	83	22689m	0.170	ppbv	
31) cis-1,2-Dichloroethene	5.536	61	50202	0.642	ppbv	99
34) 2-Butanone	5.237	43	113397	1.330	ppbv	94
35) Carbon Tetrachloride	7.002	117	7009m	0.056	ppbv	
38) Trichloroethene	7.816	130	43510	0.625	ppbv	93
41) Tetrahydrofuran	6.047	42	46393	0.731	ppbv	97
44) 2,2,4-Trimethylpentane	7.851	57	157153	0.563	ppbv #	87
52) Tetrachloroethene	11.205	164	786125	12.921	ppbv	95
53) Toluene	9.790	91	291594	1.632	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032122\
Data File : VL038673.D
Acq On : 22 Mar 2022 5:55
Operator : SY/AP
Sample : N1964-15
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
C0P85

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/24/2022

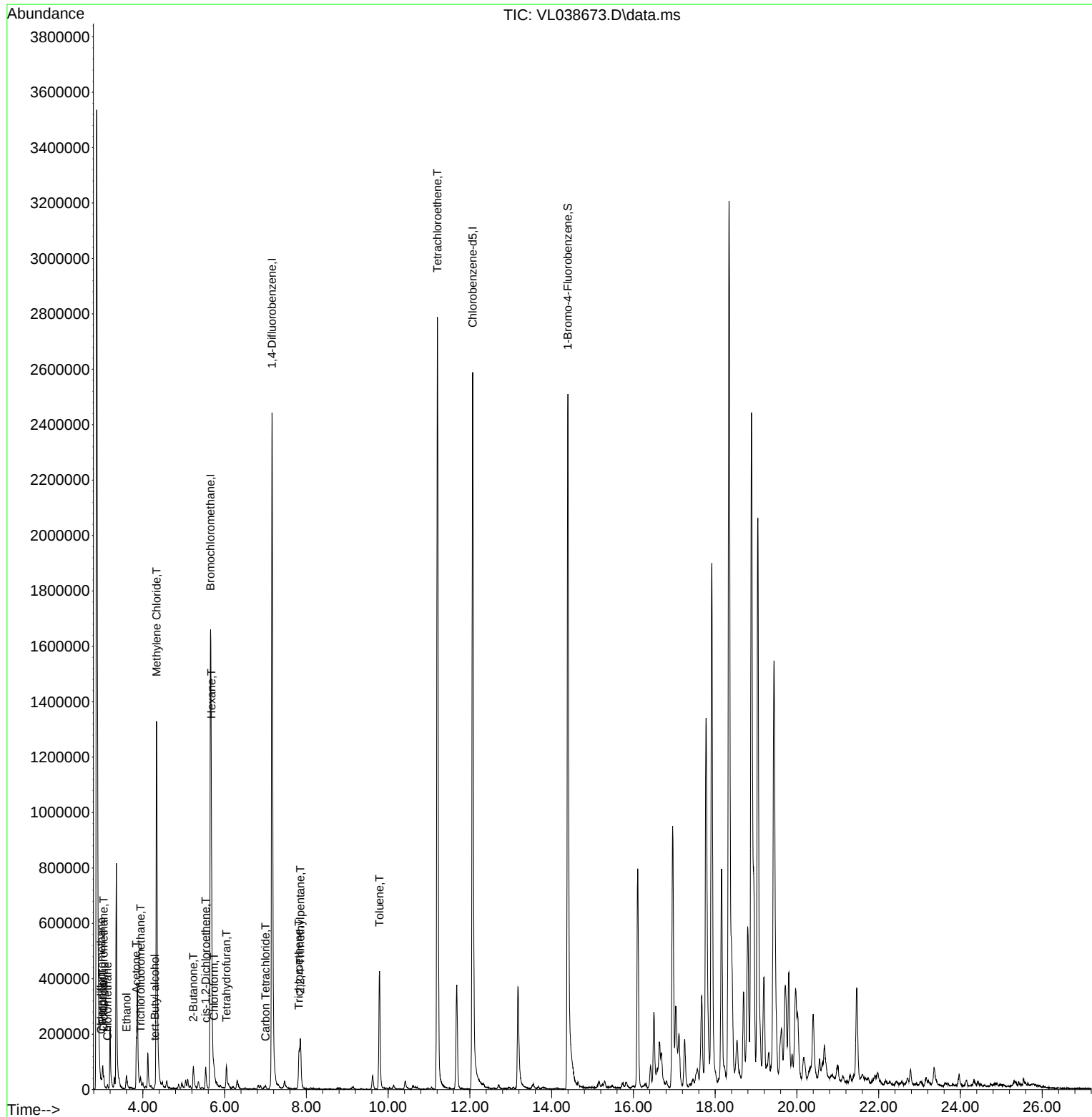
Quant Time: Mar 22 06:47:27 2022

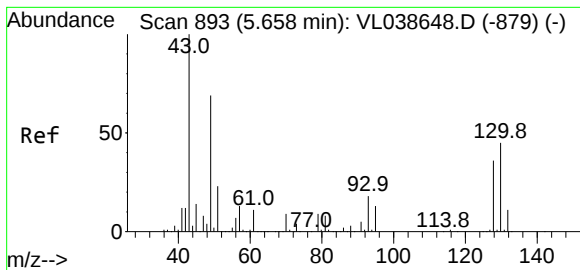
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032122AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar

QLast Update : Mon Mar 21 17:09:26 2022

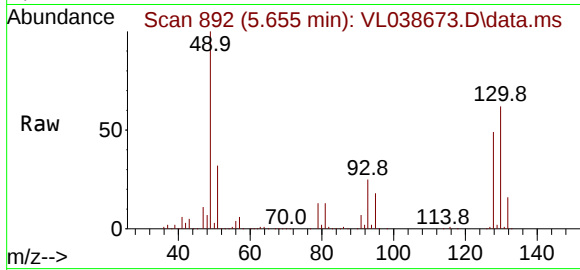
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.655 min Scan# 893
Delta R.T. -0.003 min
Lab File: VL038673.D
Acq: 22 Mar 2022 5:55

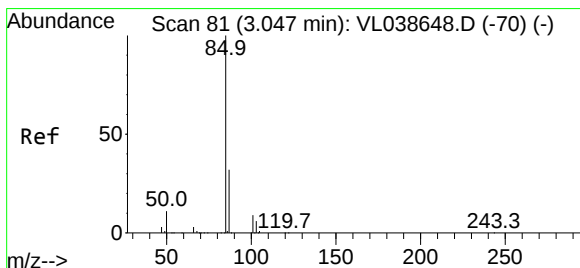
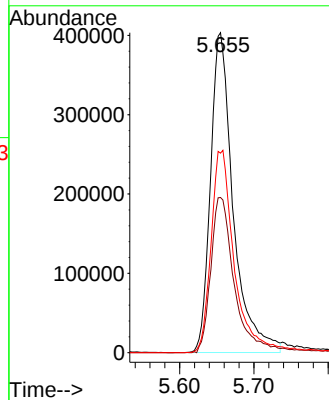
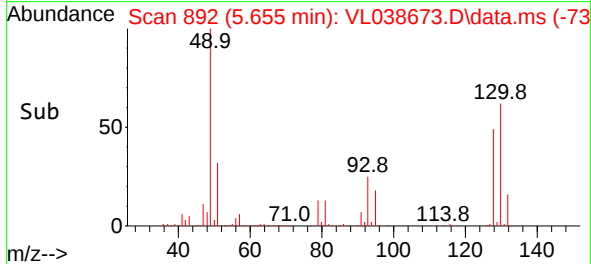
Instrument :
MSVOA_L
ClientSampleId :
COP85



Tgt Ion: 49 Resp: 85520
Ion Ratio Lower Upper
49 100
128 52.2 26.2 78.6
130 66.6 33.7 101.1

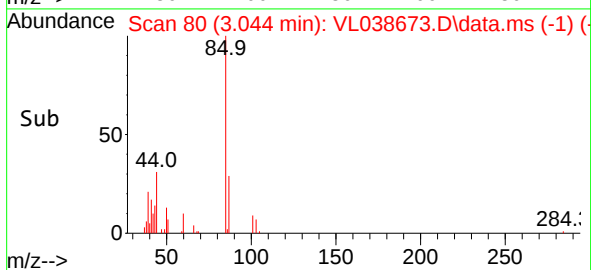
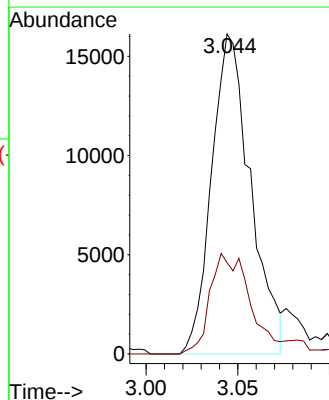
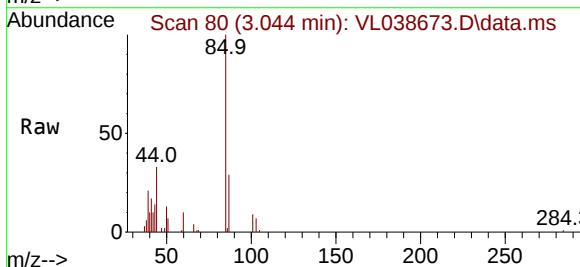
Manual Integrations
APPROVED

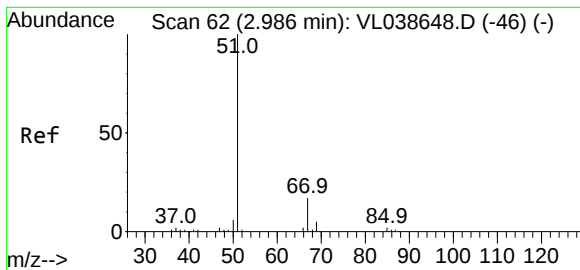
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/24/2022



#2
Dichlorodifluoromethane
Concen: 0.207 ppbv
RT: 3.044 min Scan# 80
Delta R.T. -0.003 min
Lab File: VL038673.D
Acq: 22 Mar 2022 5:55

Tgt Ion: 85 Resp: 23815
Ion Ratio Lower Upper
85 100
87 28.6 26.0 39.0





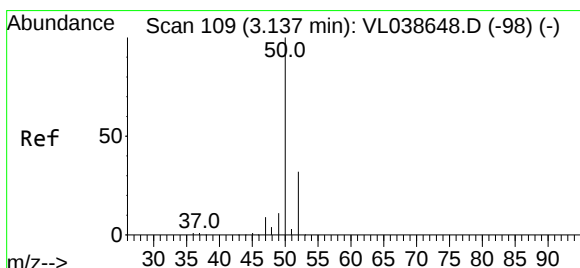
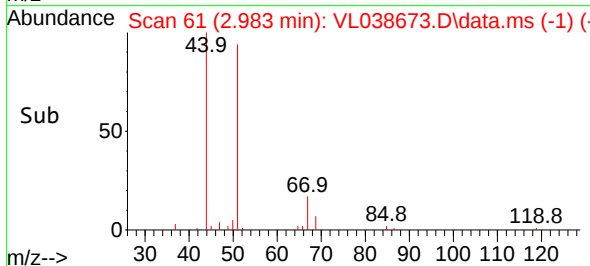
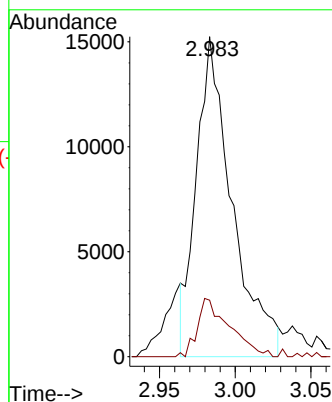
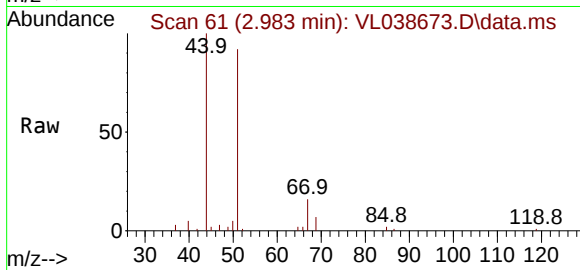
#3
Chlorodifluoromethane
Concen: 0.277 ppbv m
RT: 2.983 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL038673.D
Acq: 22 Mar 2022 5:55

Instrument :
MSVOA_L
ClientSampleId :
COP85

Tgt Ion: 51 Resp: 2498
Ion Ratio Lower Upper
51 100
67 17.1 14.1 21.1

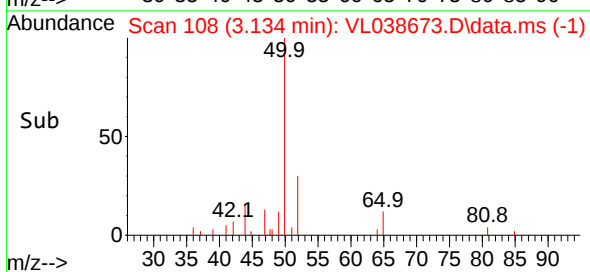
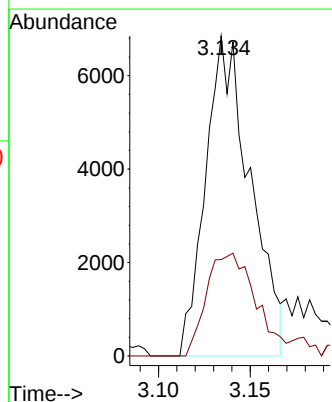
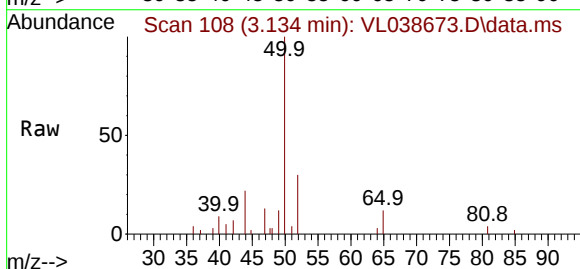
Manual Integrations
APPROVED

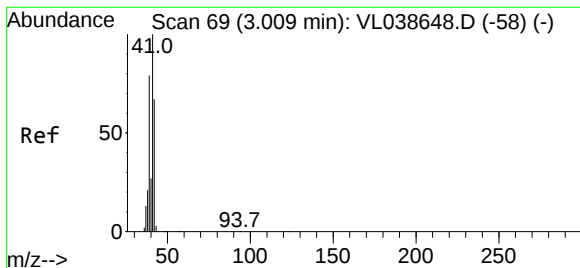
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/24/2022



#4
Chloromethane
Concen: 0.234 ppbv
RT: 3.134 min Scan# 108
Delta R.T. -0.003 min
Lab File: VL038673.D
Acq: 22 Mar 2022 5:55

Tgt Ion: 50 Resp: 11590
Ion Ratio Lower Upper
50 100
52 30.1 25.5 38.3





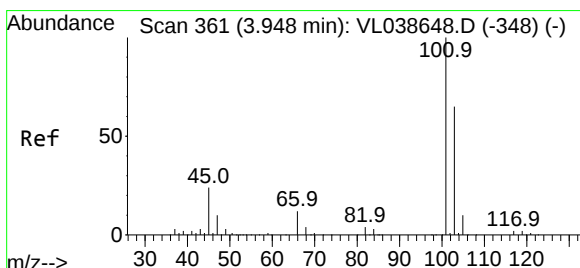
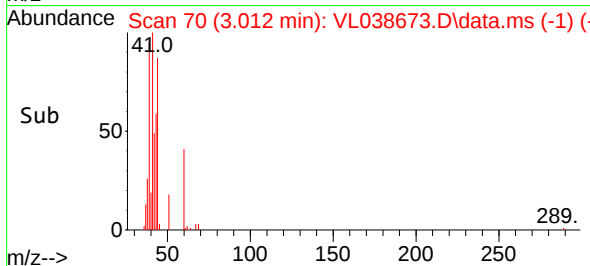
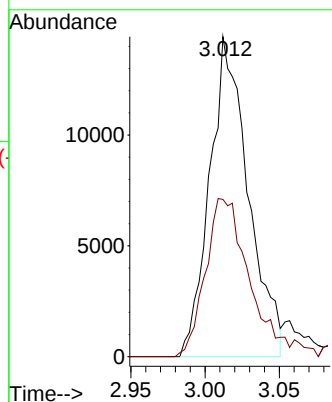
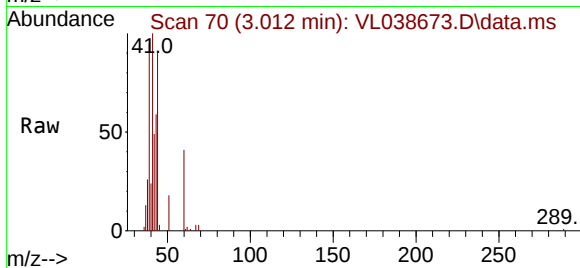
#9
Propene
Concen: 0.598 ppbv
RT: 3.012 min Scan# 70
Delta R.T. 0.003 min
Lab File: VL038673.D
Acq: 22 Mar 2022 5:55

Instrument :
MSVOA_L
ClientSampleId :
COP85

Tgt Ion: 41 Resp: 2609
Ion Ratio Lower Upper
41 100
42 58.9 56.2 84.4

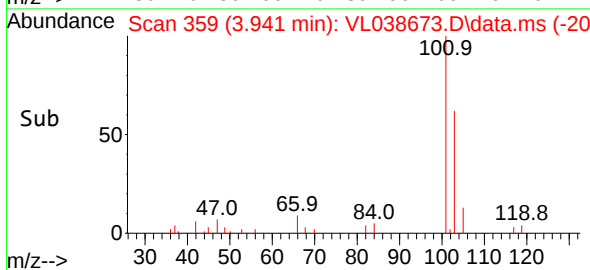
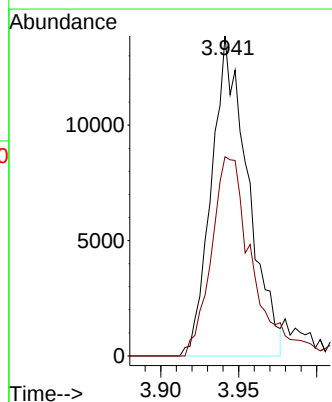
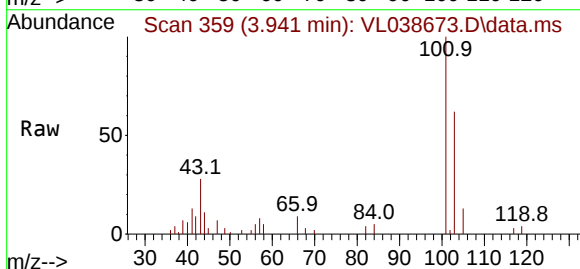
Manual Integrations
APPROVED

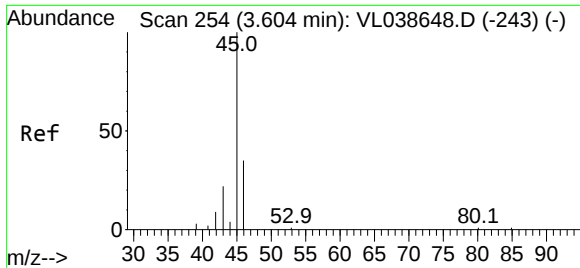
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/24/2022



#11
Trichlorofluoromethane
Concen: 0.222 ppbv
RT: 3.941 min Scan# 359
Delta R.T. -0.006 min
Lab File: VL038673.D
Acq: 22 Mar 2022 5:55

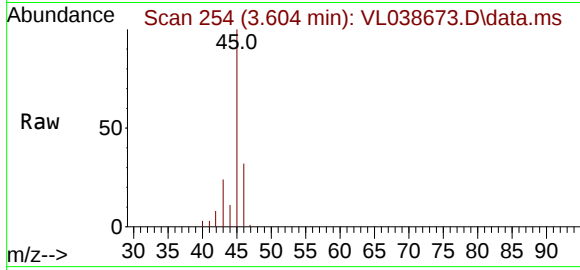
Tgt Ion:101 Resp: 22502
Ion Ratio Lower Upper
101 100
103 62.2 51.9 77.9





#13
Ethanol
Concen: 13.297 ppbv
RT: 3.604 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL038673.D
Acq: 22 Mar 2022 5:55

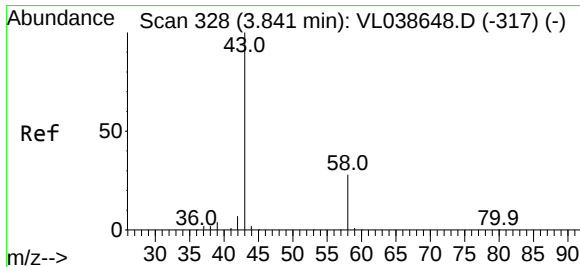
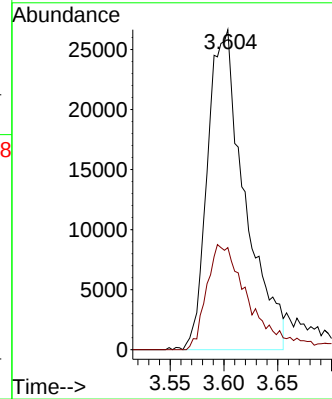
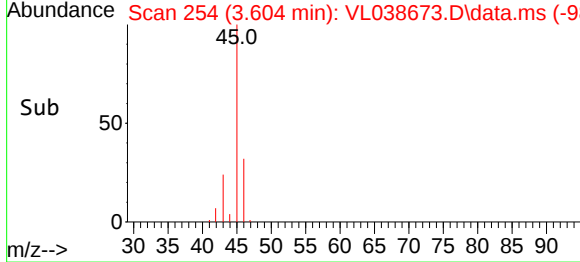
Instrument :
MSVOA_L
ClientSampleId :
COP85



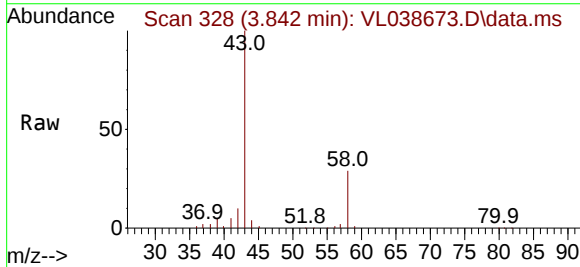
Tgt Ion: 45 Resp: 6396
Ion Ratio Lower Upper
45 100
46 39.4 15.1 60.5

Manual Integrations
APPROVED

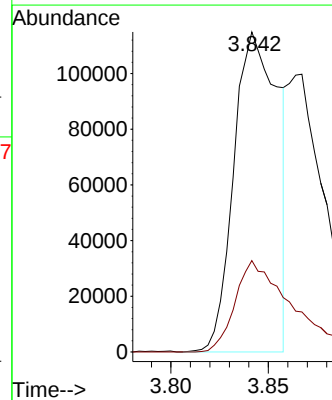
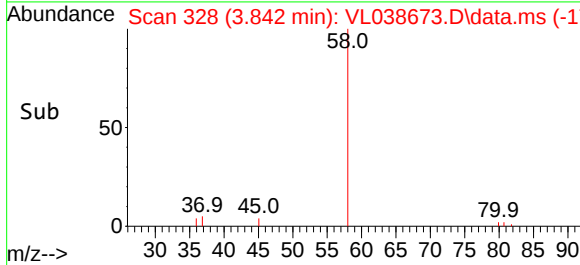
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/24/2022

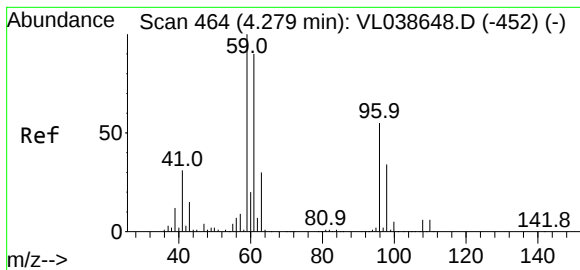


#15
Acetone
Concen: 2.458 ppbv
RT: 3.842 min Scan# 328
Delta R.T. 0.000 min
Lab File: VL038673.D
Acq: 22 Mar 2022 5:55



Tgt Ion: 43 Resp: 181389
Ion Ratio Lower Upper
43 100
58 41.1 23.3 34.9#





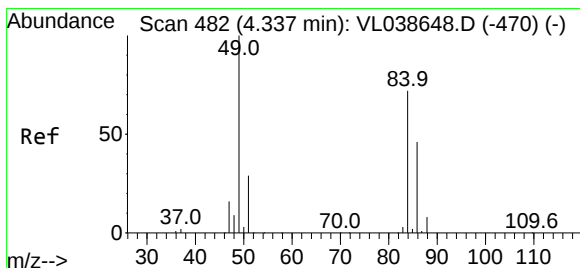
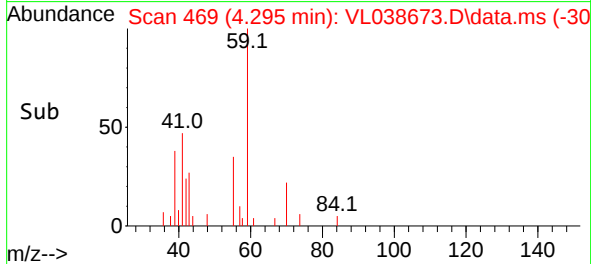
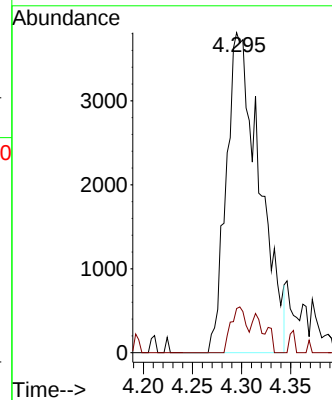
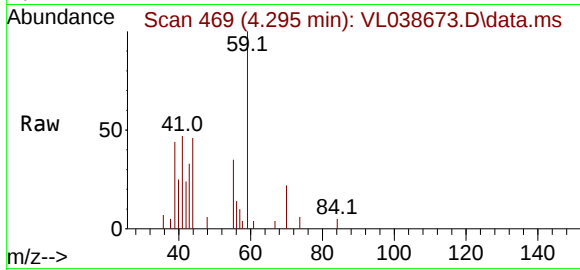
#17
tert-Butyl alcohol
Concen: 0.139 ppbv m
RT: 4.295 min Scan# 469
Delta R.T. 0.016 min
Lab File: VL038673.D
Acq: 22 Mar 2022 5:55

Instrument :
MSVOA_L
ClientSampleId :
COP85

Tgt Ion: 59 Resp: 896
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2

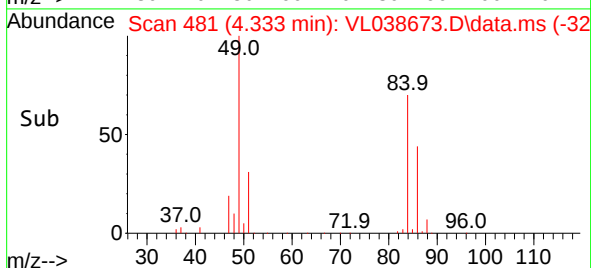
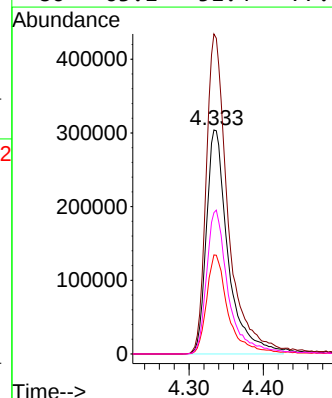
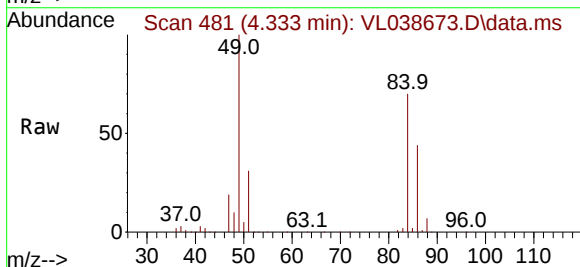
Manual Integrations
APPROVED

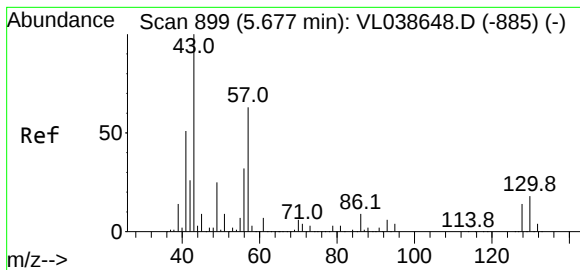
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/24/2022



#20
Methylene Chloride
Concen: 19.901 ppbv
RT: 4.333 min Scan# 481
Delta R.T. -0.003 min
Lab File: VL038673.D
Acq: 22 Mar 2022 5:55

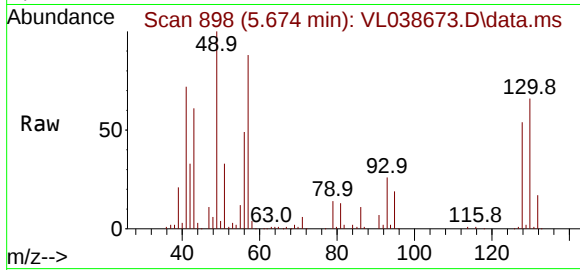
Tgt Ion: 84 Resp: 618556
Ion Ratio Lower Upper
84 100
49 142.9 111.2 166.8
51 44.2 32.8 49.2
86 63.1 51.4 77.0





#26
Hexane
Concen: 3.206 ppbv
RT: 5.674 min Scan# 899
Delta R.T. -0.003 min
Lab File: VL038673.D
Acq: 22 Mar 2022 5:55

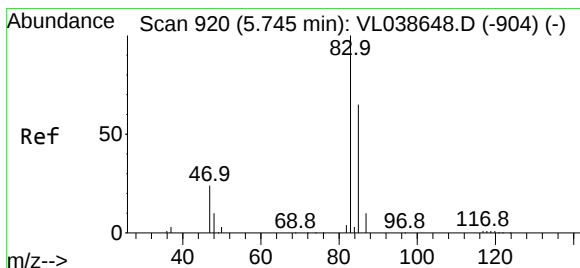
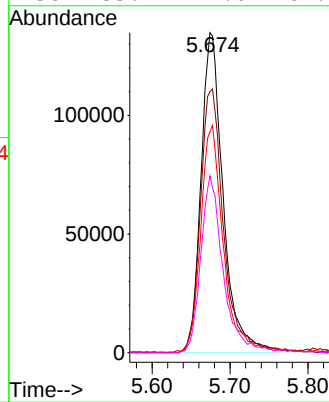
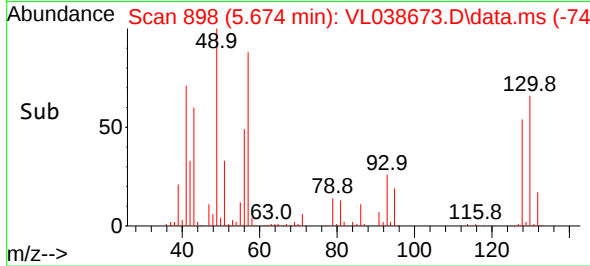
Instrument :
MSVOA_L
ClientSampleId :
COP85



Tgt Ion: 57 Resp: 26660
Ion Ratio Lower Upper
57 100
41 87.1 67.0 100.4
43 72.5 184.2 276.2
56 55.9 42.6 64.0

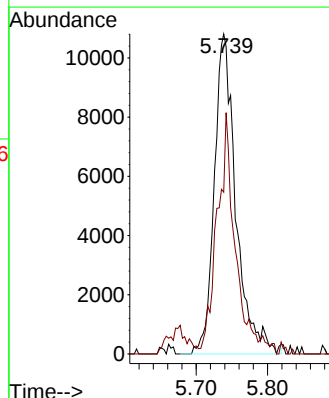
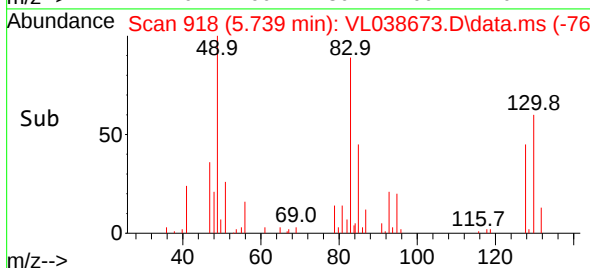
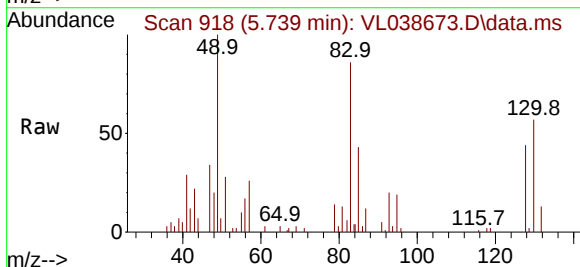
Manual Integrations
APPROVED

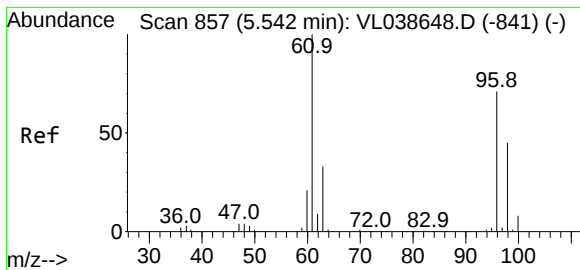
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/24/2022



#29
Chloroform
Concen: 0.170 ppbv m
RT: 5.739 min Scan# 918
Delta R.T. -0.006 min
Lab File: VL038673.D
Acq: 22 Mar 2022 5:55

Tgt Ion: 83 Resp: 22689
Ion Ratio Lower Upper
83 100
85 50.6 51.7 77.5#





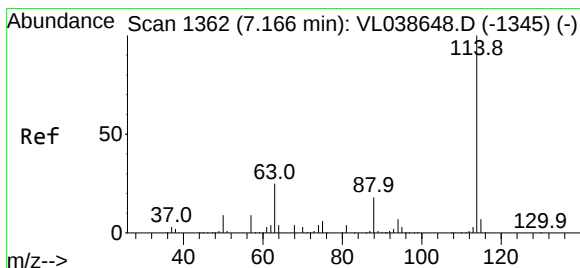
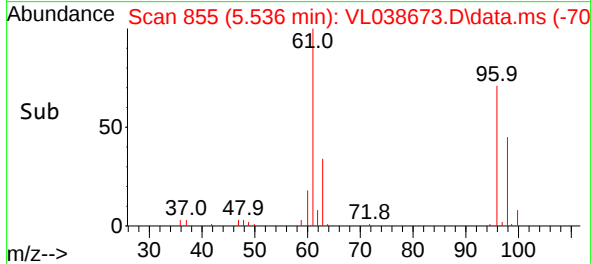
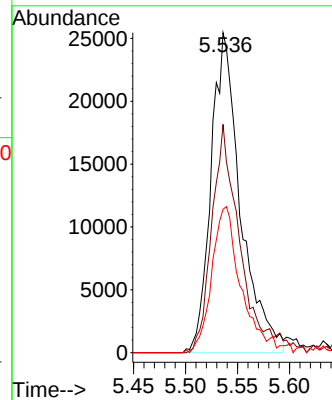
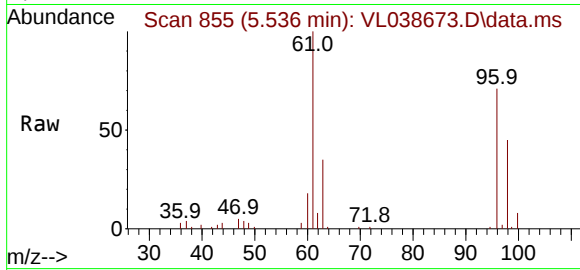
#31
cis-1,2-Dichloroethene
Concen: 0.642 ppbv
RT: 5.536 min Scan# 81
Delta R.T. -0.006 min
Lab File: VL038673.D
Acq: 22 Mar 2022 5:55

Instrument :
MSVOA_L
ClientSampleId :
COP85

Tgt Ion: 61 Resp: 5020
Ion Ratio Lower Upper
61 100
96 71.4 56.6 84.8
98 45.8 36.3 54.5

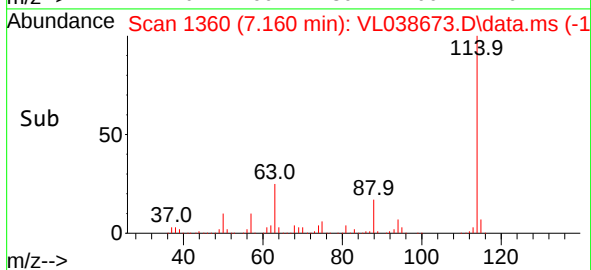
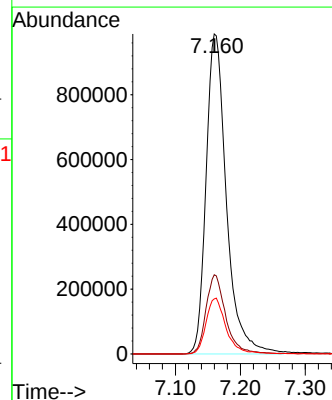
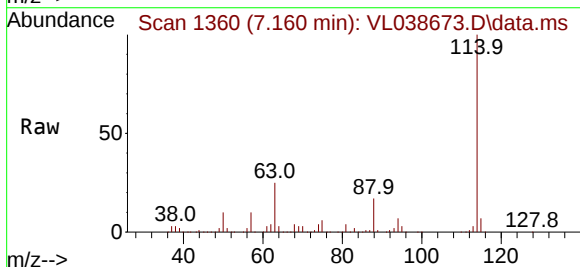
Manual Integrations
APPROVED

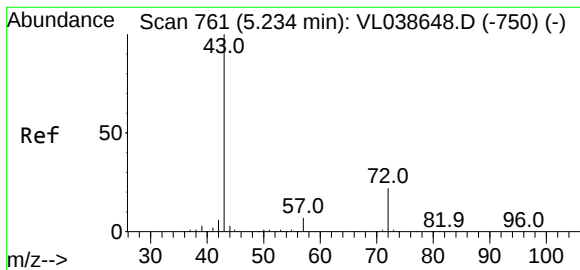
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/24/2022



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.160 min Scan# 1360
Delta R.T. -0.006 min
Lab File: VL038673.D
Acq: 22 Mar 2022 5:55

Tgt Ion:114 Resp: 2154230
Ion Ratio Lower Upper
114 100
63 24.1 19.4 29.0
88 17.3 13.9 20.9





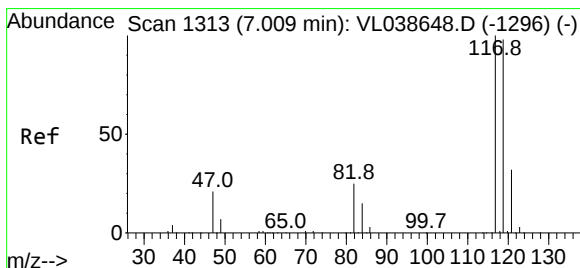
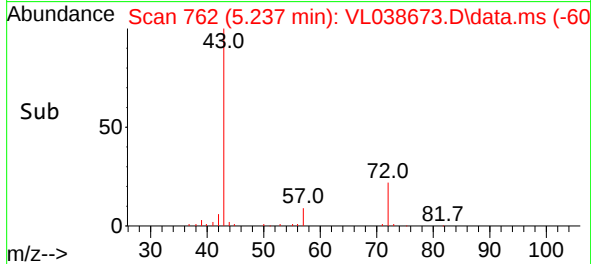
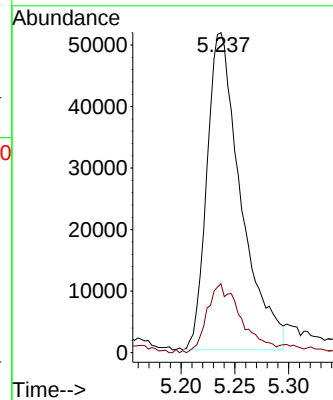
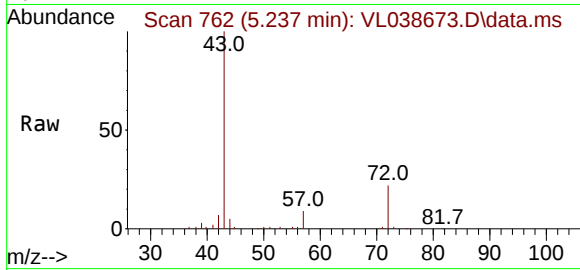
#34
2-Butanone
Concen: 1.330 ppbv
RT: 5.237 min Scan# 761
Delta R.T. 0.003 min
Lab File: VL038673.D
Acq: 22 Mar 2022 5:55

Instrument :
MSVOA_L
ClientSampleId :
COP85

Tgt Ion: 43 Resp: 11339
Ion Ratio Lower Upper
43 100
72 25.1 17.8 26.8

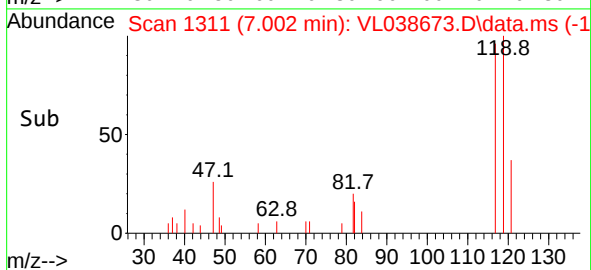
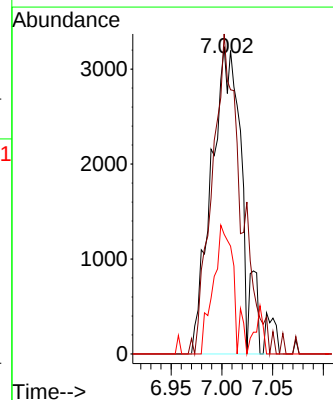
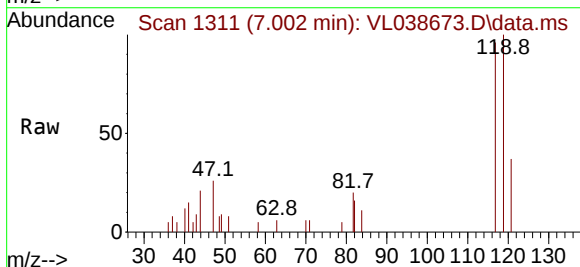
Manual Integrations
APPROVED

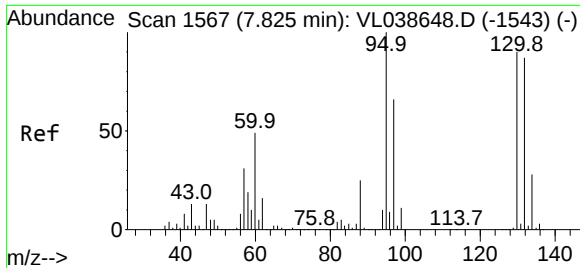
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/24/2022



#35
Carbon Tetrachloride
Concen: 0.056 ppbv m
RT: 7.002 min Scan# 1311
Delta R.T. -0.006 min
Lab File: VL038673.D
Acq: 22 Mar 2022 5:55

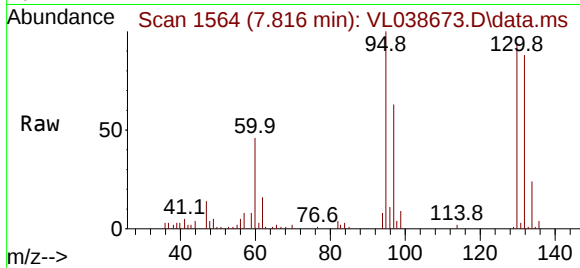
Tgt Ion:117 Resp: 7009
Ion Ratio Lower Upper
117 100
119 104.1 78.1 117.1
121 39.0 25.8 38.6#





#38
Trichloroethene
Concen: 0.625 ppbv
RT: 7.816 min Scan# 11
Delta R.T. -0.010 min
Lab File: VL038673.D
Acq: 22 Mar 2022 5:55

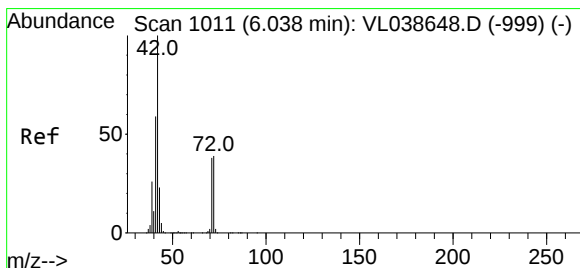
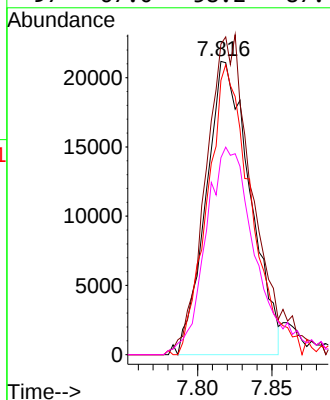
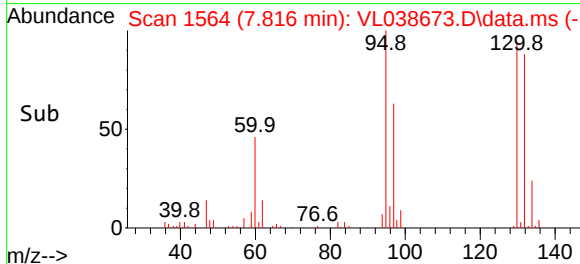
Instrument :
MSVOA_L
ClientSampleId :
COP85



Tgt Ion:130 Resp: 43510
Ion Ratio Lower Upper
130 100
95 100.8 88.9 133.3
132 93.5 77.4 116.0
97 67.0 58.2 87.4

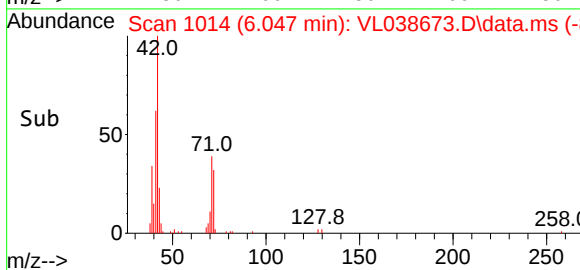
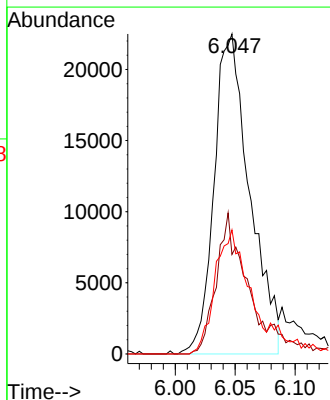
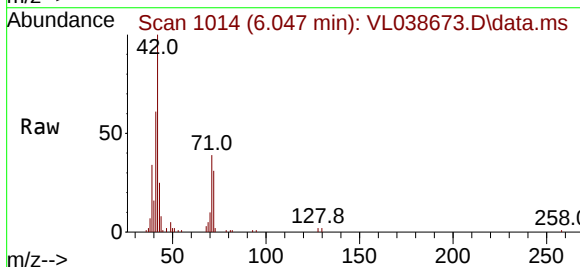
Manual Integrations
APPROVED

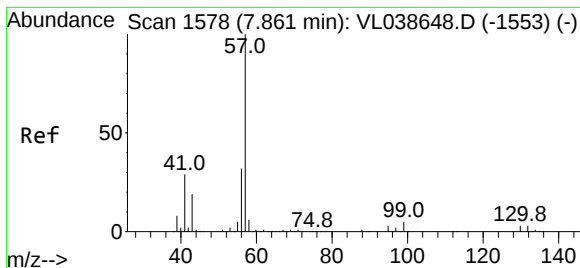
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/24/2022



#41
Tetrahydrofuran
Concen: 0.731 ppbv
RT: 6.047 min Scan# 1014
Delta R.T. 0.010 min
Lab File: VL038673.D
Acq: 22 Mar 2022 5:55

Tgt Ion: 42 Resp: 46393
Ion Ratio Lower Upper
42 100
72 42.0 32.5 48.7
71 41.5 31.4 47.2





#44

2,2,4-Trimethylpentane

Concen: 0.563 ppbv

RT: 7.851 min Scan# 1575

Delta R.T. -0.010 min

Lab File: VL038673.D

Acq: 22 Mar 2022 5:55

Instrument :

MSVOA_L

ClientSampleId :

COP85

Tgt Ion: 57 Resp: 15715

Ion Ratio Lower Upper

57 100

41 36.8 23.0 34.4

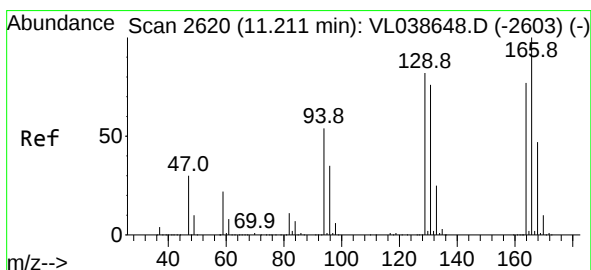
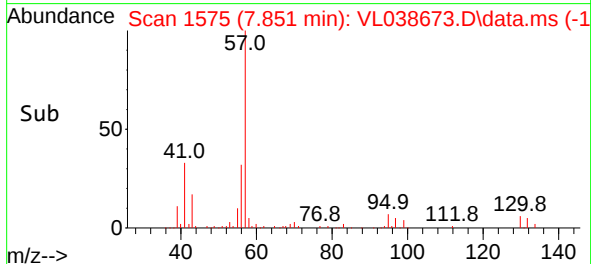
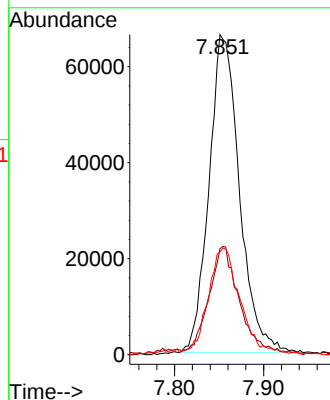
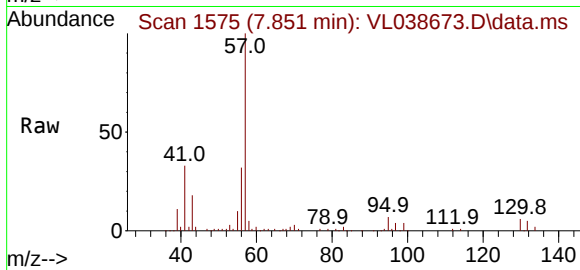
56 37.2 25.3 37.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/24/2022



#52

Tetrachloroethene

Concen: 12.921 ppbv

RT: 11.205 min Scan# 2618

Delta R.T. -0.006 min

Lab File: VL038673.D

Acq: 22 Mar 2022 5:55

Tgt Ion:164 Resp: 786125

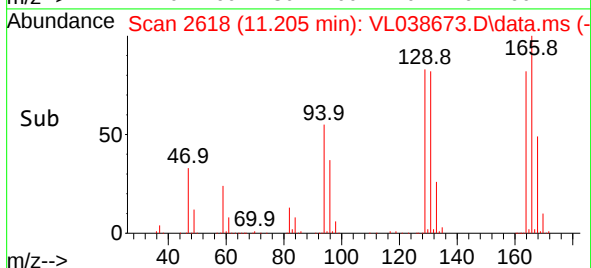
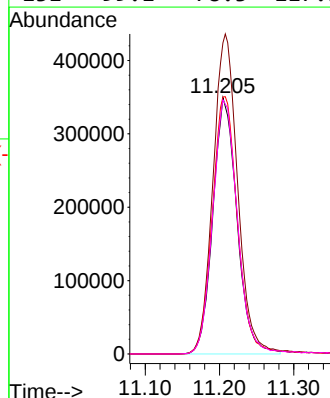
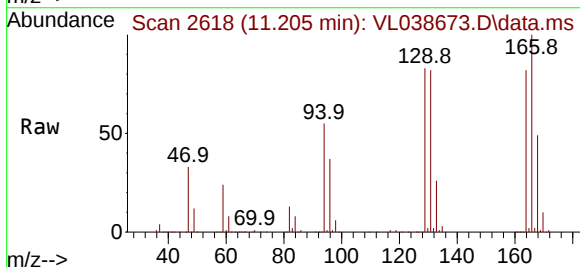
Ion Ratio Lower Upper

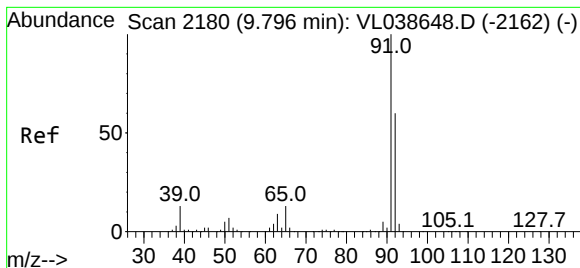
164 100

166 121.3 103.3 154.9

129 100.2 85.2 127.8

131 99.1 78.3 117.5





#53

Toluene

Concen: 1.632 ppbv

RT: 9.790 min Scan# 2180

Delta R.T. -0.006 min

Lab File: VL038673.D

Acq: 22 Mar 2022 5:55

Instrument :

MSVOA_L

ClientSampleId :

COP85

Tgt Ion: 91 Resp: 291594

Ion Ratio Lower Upper

91 100

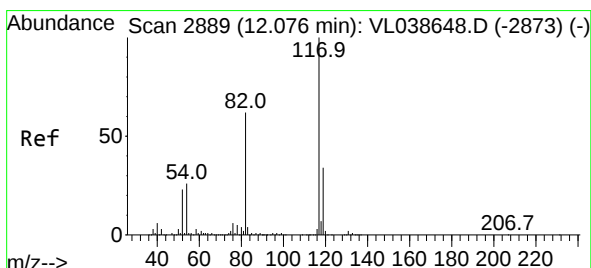
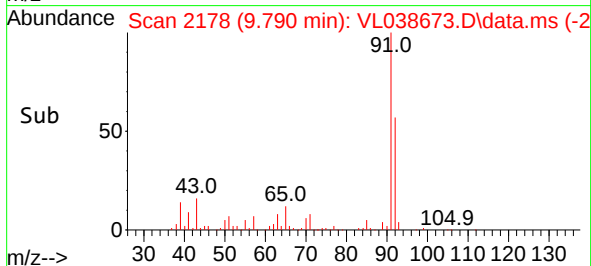
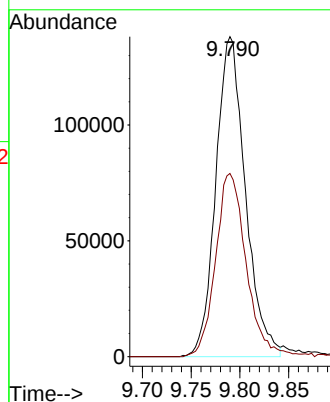
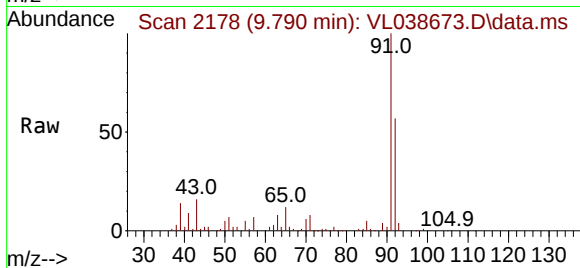
92 59.4 48.7 73.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/24/2022



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.069 min Scan# 2887

Delta R.T. -0.006 min

Lab File: VL038673.D

Acq: 22 Mar 2022 5:55

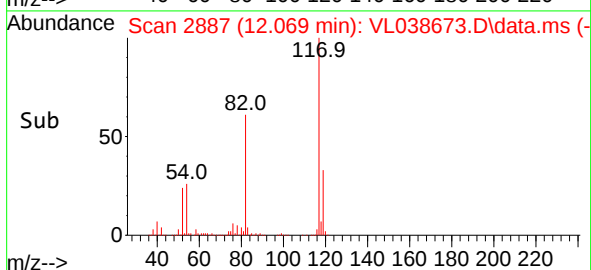
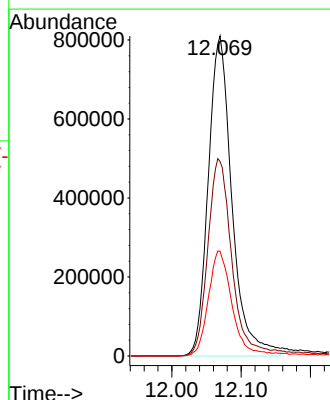
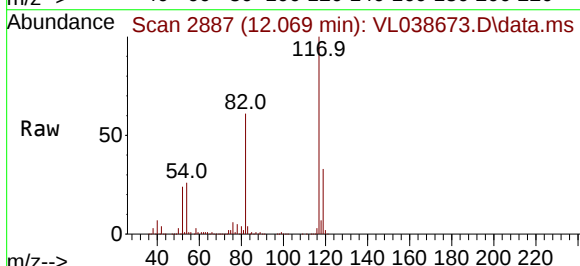
Tgt Ion:117 Resp: 1926760

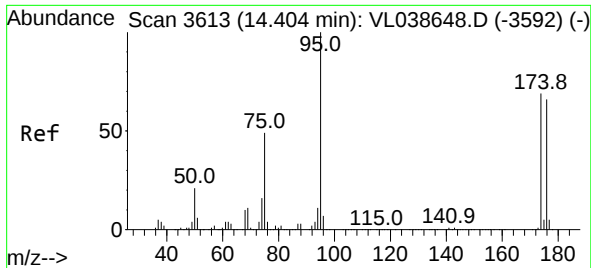
Ion Ratio Lower Upper

117 100

82 65.6 51.6 77.4

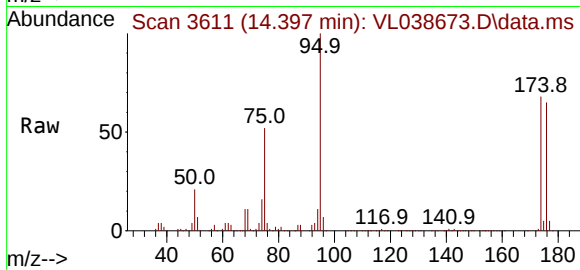
119 34.3 26.9 40.3





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.481 ppbv
 RT: 14.397 min Scan# 30
 Delta R.T. -0.006 min
 Lab File: VL038673.D
 Acq: 22 Mar 2022 5:55

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P85



Tgt Ion: 95 Resp: 140049

Ion	Ratio	Lower	Upper
95	100		
174	73.8	56.1	84.1
175	5.4	4.2	6.2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/24/2022
 Supervised By :Mahesh Dadoda 03/24/2022

