

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032222\
 Data File : VL038700.D
 Acq On : 23 Mar 2022 1:42
 Operator : SY/AP
 Sample : N2046-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P89

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/23/2022
 Supervised By : Mahesh Dadoda 03/25/2022

Quant Time: Mar 23 04:18:48 2022

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 23 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	5.648	49	796157	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.153	114	2193823	10.000	ppbv	-0.01
55) Chlorobenzene-d5	12.063	117	2058724	10.000	ppbv	-0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.388	95	1501855	9.515	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	3.041	85	20118	0.188	ppbv	93
3) Chlorodifluoromethane	2.980	51	35758	0.425	ppbv #	88
4) Chloromethane	3.134	50	11243	0.244	ppbv	98
9) Propene	3.005	41	93662	2.307	ppbv	89
11) Trichlorofluoromethane	3.941	101	17588	0.186	ppbv	89
13) Ethanol	3.584	45	244293	54.552	ppbv	100
15) Acetone	3.832	43	1452257	21.140	ppbv	94
17) tert-Butyl alcohol	4.282	59	55309	0.922	ppbv #	73
19) Isopropyl Alcohol	3.951	45	128934	3.385	ppbv #	1
20) Methylene Chloride	4.333	84	45246	1.564	ppbv	93
26) Hexane	5.671	57	68151	0.880	ppbv #	58
27) Carbon Disulfide	4.539	76	14110	0.186	ppbv #	65
29) Chloroform	5.732	83	104699	0.845	ppbv	98
30) Cyclohexane	7.111	84	13969m	0.208	ppbv	
32) 1,1,1-Trichloroethane	6.491	97	18259m	0.153	ppbv	
34) 2-Butanone	5.221	43	1750649	20.161	ppbv	98
35) Carbon Tetrachloride	6.989	117	5357m	0.042	ppbv	
36) Benzene	6.873	78	32833	0.194	ppbv #	90
38) Trichloroethene	7.816	130	9287	0.131	ppbv	92
41) Tetrahydrofuran	6.041	42	36255	0.561	ppbv	92
51) 2-Hexanone	10.114	43	135911	1.172	ppbv #	99
52) Tetrachloroethene	11.204	164	4263985	68.818	ppbv	94
53) Toluene	9.783	91	663122	3.645	ppbv	100
58) Ethyl Benzene	12.690	91	41617m	0.173	ppbv	
59) m/p-Xylene	12.944	91	75977m	0.361	ppbv	
60) o-Xylene	13.664	91	32792	0.164	ppbv	98
61) Styrene	13.503	104	11832m	0.109	ppbv	
69) p-Isopropyltoluene	17.625	119	39028m	0.124	ppbv	
74) 1,2,4-Trimethylbenzene	16.735	105	30266m	0.129	ppbv	
75) 1,3-Dichlorobenzene	16.973	146	42165m	0.283	ppbv	

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

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C0P89

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APPROVED

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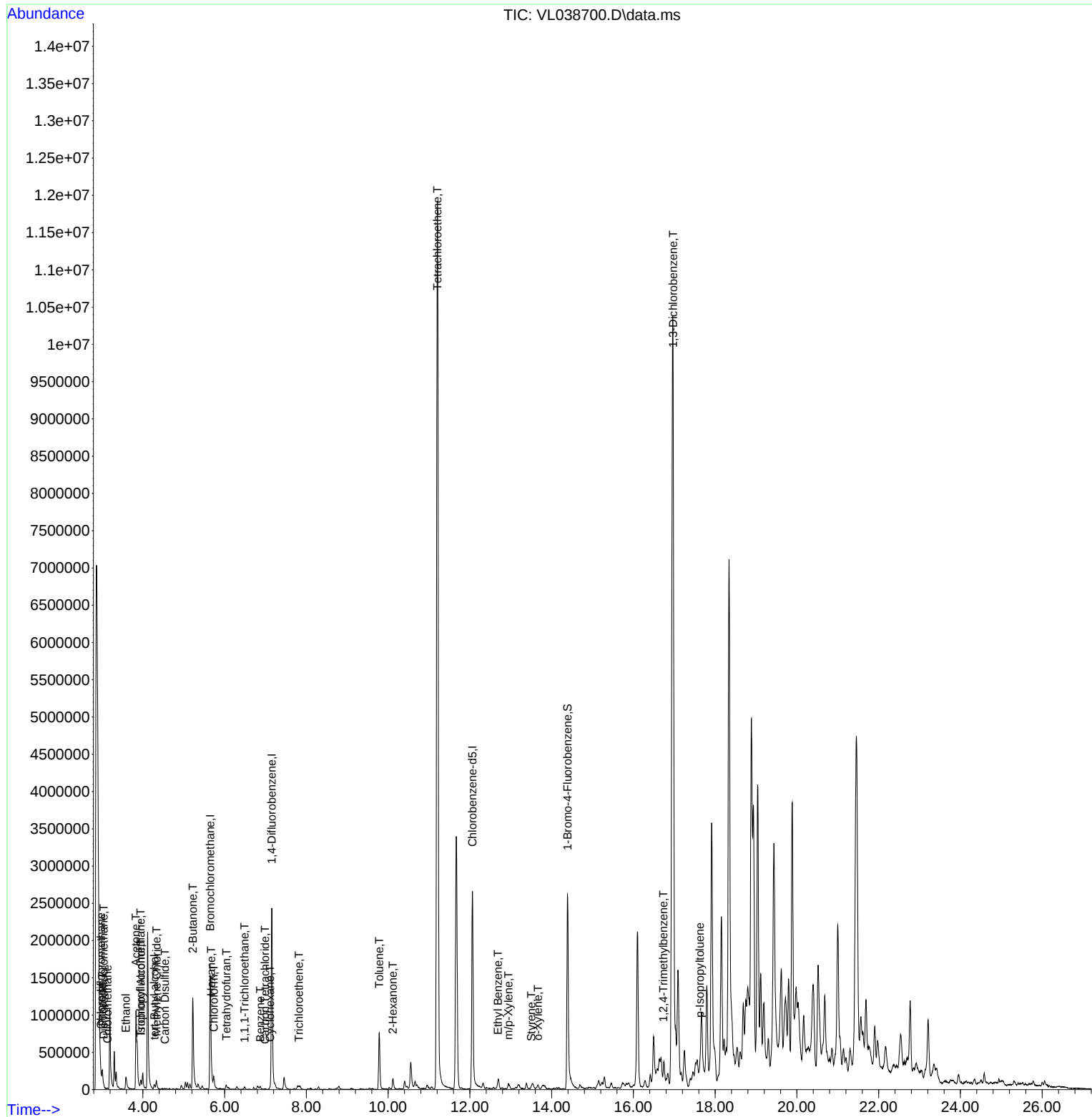
Quant Time: Mar 23 04:18:48 2022

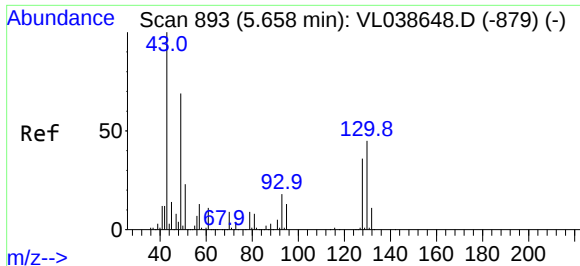
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032122AIR.M

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

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

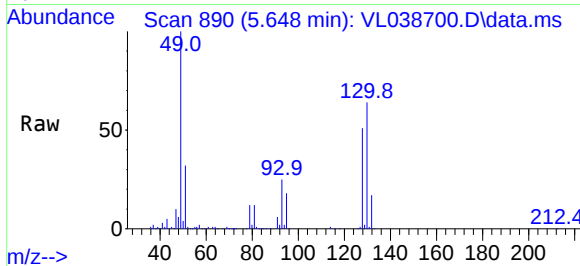
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.648 min Scan# 89
Delta R.T. -0.010 min
Lab File: VL038700.D
Acq: 23 Mar 2022 1:42

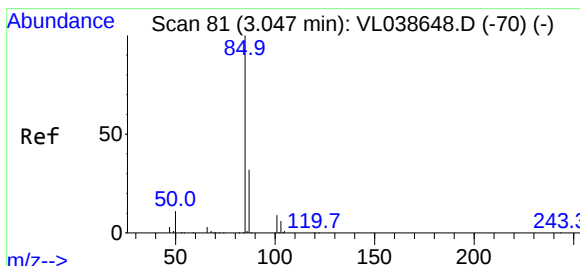
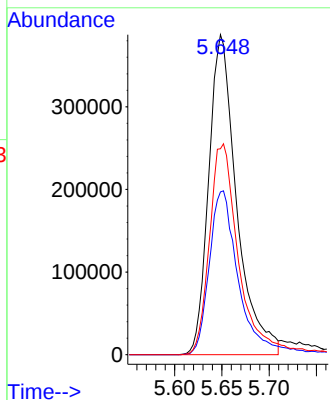
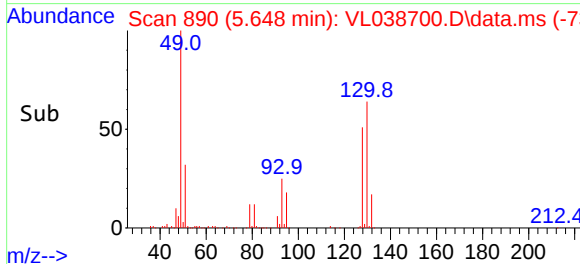
Instrument :
MSVOA_L
ClientSampleId :
COP89



Tgt Ion: 49 Resp: 79615
Ion Ratio Lower Upper
49 100
128 55.4 26.2 78.6
130 71.3 33.7 101.1

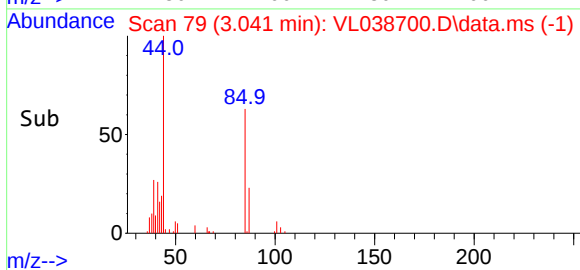
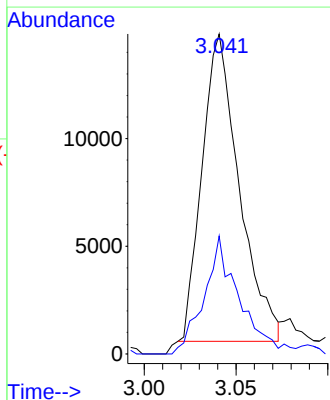
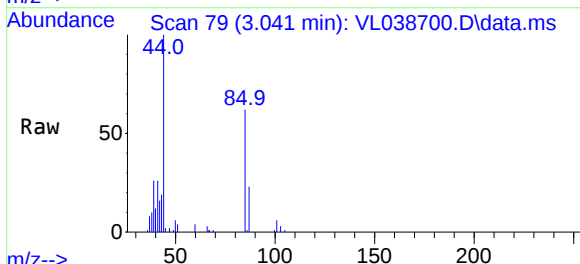
Manual Integrations
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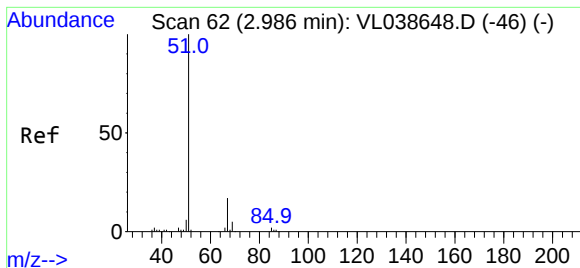
Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022



#2
Dichlorodifluoromethane
Concen: 0.188 ppbv
RT: 3.041 min Scan# 79
Delta R.T. -0.007 min
Lab File: VL038700.D
Acq: 23 Mar 2022 1:42

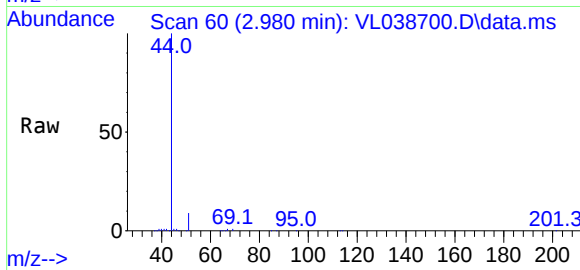
Tgt Ion: 85 Resp: 20118
Ion Ratio Lower Upper
85 100
87 36.6 26.0 39.0





#3
Chlorodifluoromethane
Concen: 0.425 ppbv
RT: 2.980 min Scan# 60
Delta R.T. -0.006 min
Lab File: VL038700.D
Acq: 23 Mar 2022 1:42

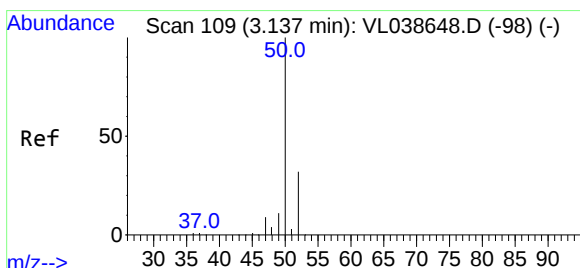
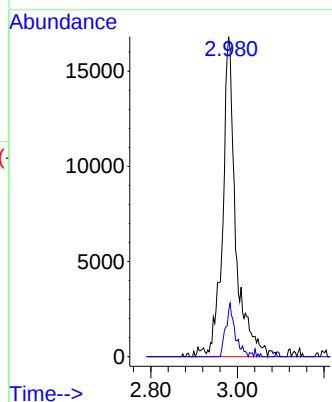
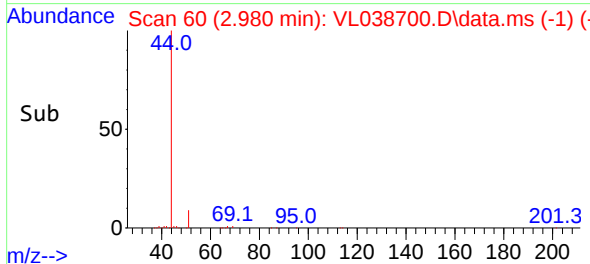
Instrument :
MSVOA_L
ClientSampleId :
COP89



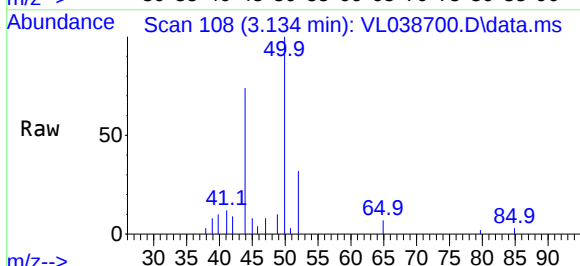
Tgt Ion: 51 Resp: 35758
Ion Ratio Lower Upper
51 100
67 12.3 14.1 21.1

Manual Integrations
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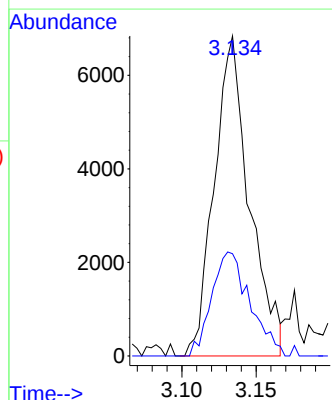
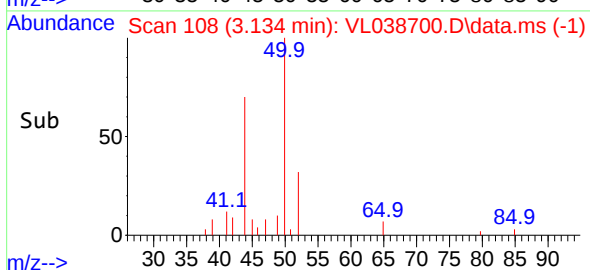
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Supervised By :Mahesh Dadoda 03/25/2022

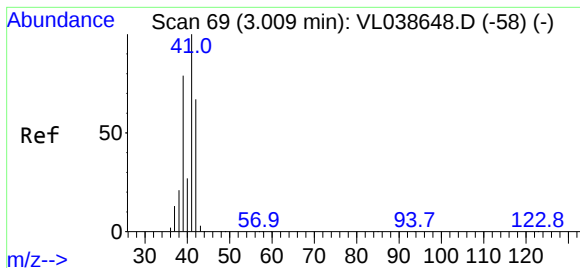


#4
Chloromethane
Concen: 0.244 ppbv
RT: 3.134 min Scan# 108
Delta R.T. -0.003 min
Lab File: VL038700.D
Acq: 23 Mar 2022 1:42



Tgt Ion: 50 Resp: 11243
Ion Ratio Lower Upper
50 100
52 30.9 25.5 38.3





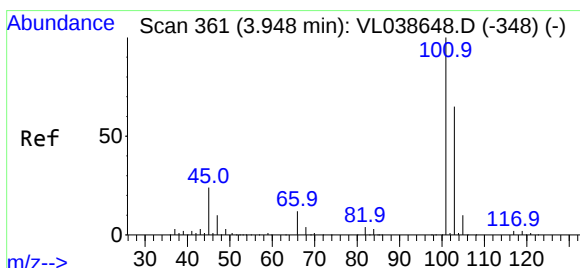
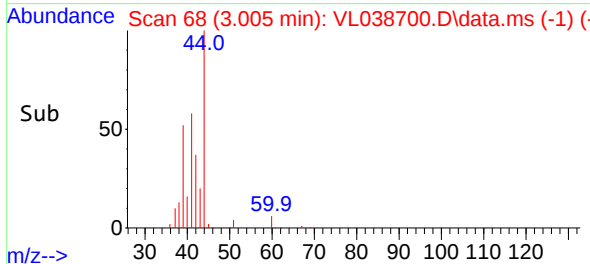
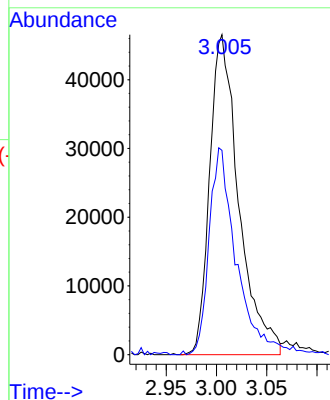
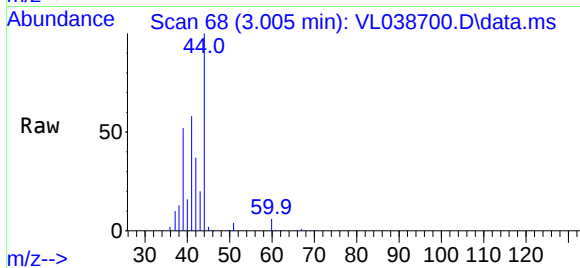
#9
Propene
Concen: 2.307 ppbv
RT: 3.005 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL038700.D
Acq: 23 Mar 2022 1:42

Instrument :
MSVOA_L
ClientSampleId :
COP89

Tgt Ion: 41 Resp: 93662
Ion Ratio Lower Upper
41 100
42 61.4 56.2 84.4

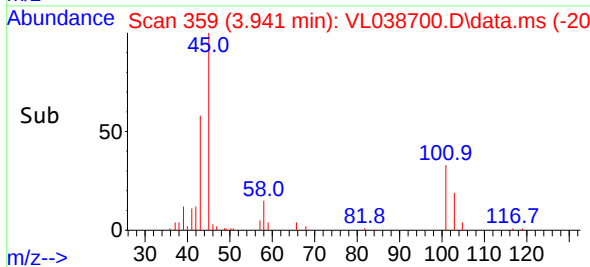
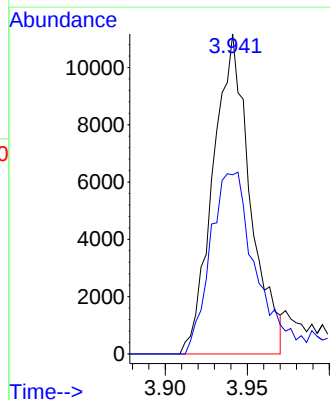
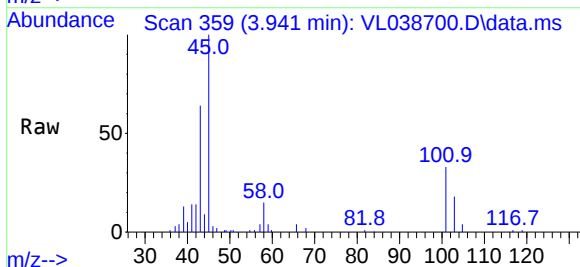
Manual Integrations
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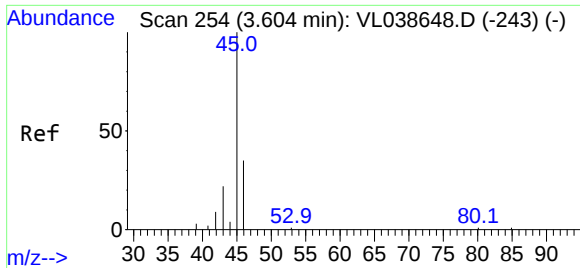
Reviewed By :Semsettin Yesilyurt 03/23/2022
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#11
Trichlorofluoromethane
Concen: 0.186 ppbv
RT: 3.941 min Scan# 359
Delta R.T. -0.007 min
Lab File: VL038700.D
Acq: 23 Mar 2022 1:42

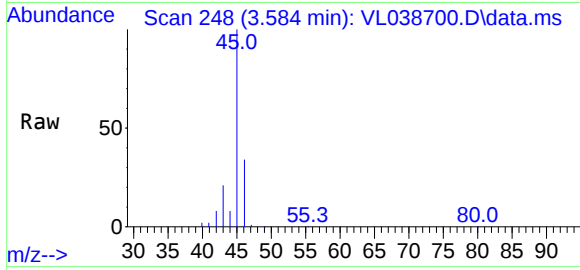
Tgt Ion:101 Resp: 17588
Ion Ratio Lower Upper
101 100
103 56.0 51.9 77.9





#13
Ethanol
Concen: 54.552 ppbv
RT: 3.584 min Scan# 244
Delta R.T. -0.019 min
Lab File: VL038700.D
Acq: 23 Mar 2022 1:42

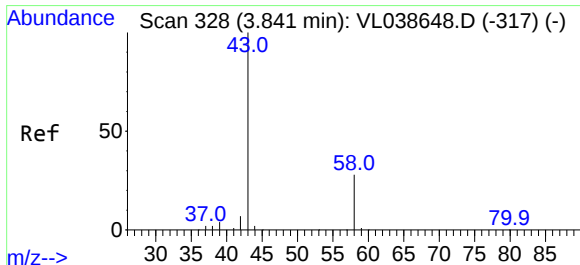
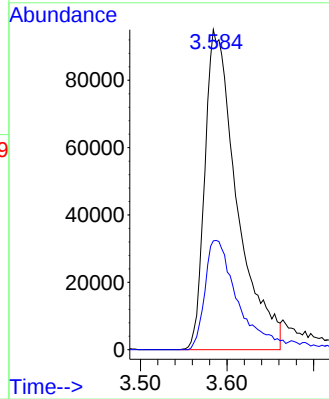
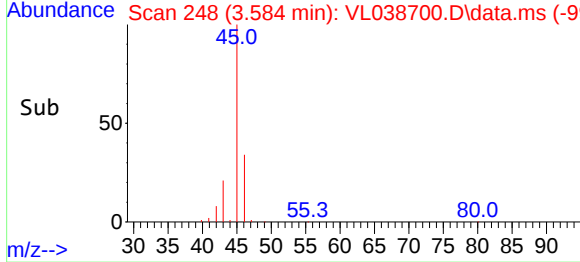
Instrument :
MSVOA_L
ClientSampleId :
COP89



Tgt Ion: 45 Resp: 24429
Ion Ratio Lower Upper
45 100
46 37.9 15.1 60.5

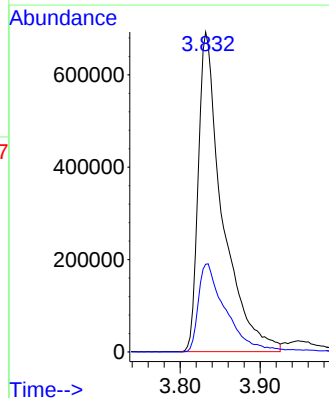
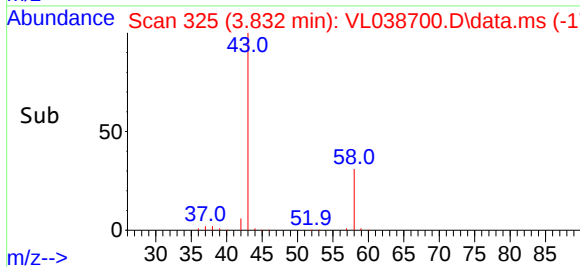
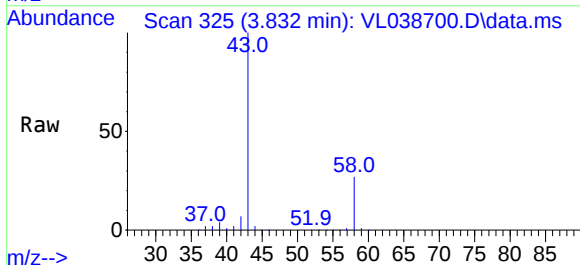
Manual Integrations
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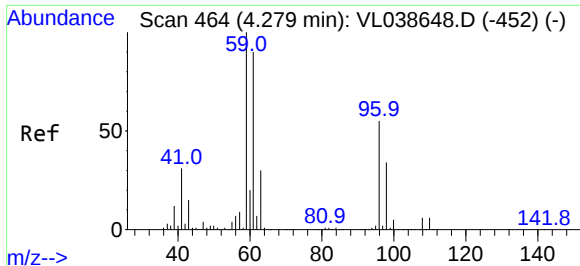
Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022



#15
Acetone
Concen: 21.140 ppbv
RT: 3.832 min Scan# 325
Delta R.T. -0.010 min
Lab File: VL038700.D
Acq: 23 Mar 2022 1:42

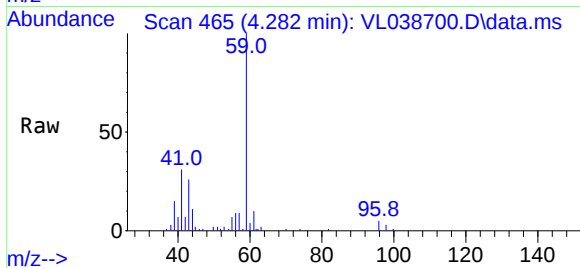
Tgt Ion: 43 Resp: 1452257
Ion Ratio Lower Upper
43 100
58 32.5 23.3 34.9





#17
tert-Butyl alcohol
Concen: 0.922 ppbv
RT: 4.282 min Scan# 40
Delta R.T. 0.003 min
Lab File: VL038700.D
Acq: 23 Mar 2022 1:42

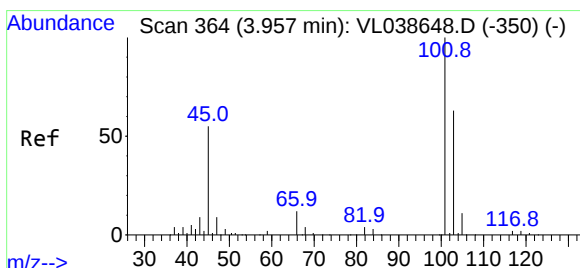
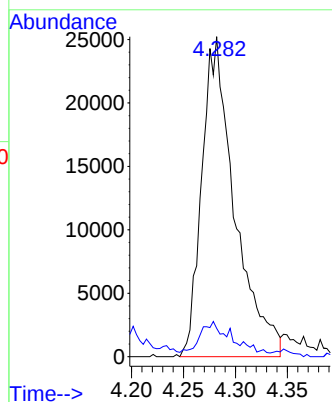
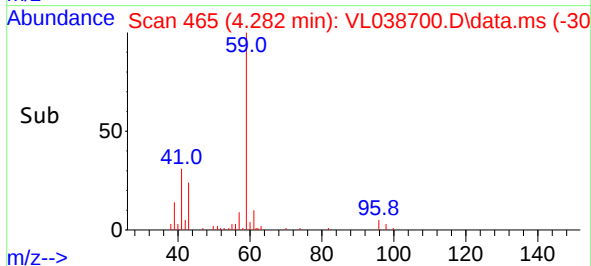
Instrument :
MSVOA_L
ClientSampleId :
COP89



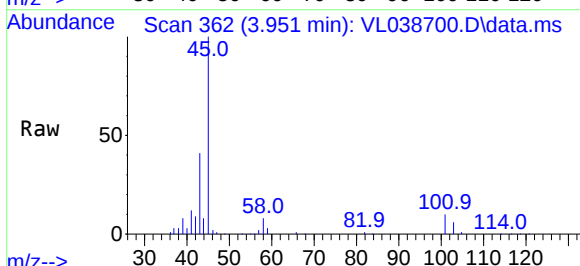
Tgt Ion: 59 Resp: 55309
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.25

Manual Integrations
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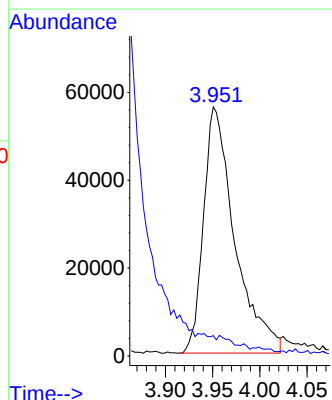
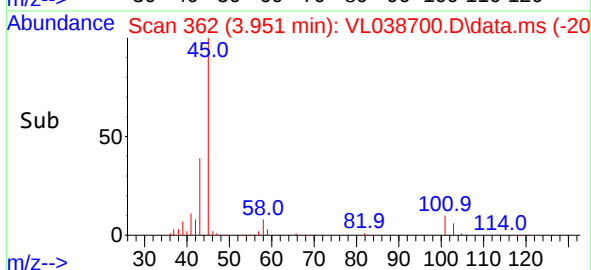
Reviewed By :Semsettin Yesilyurt 03/23/2022
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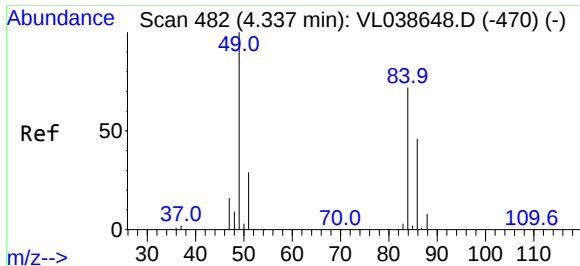


#19
Isopropyl Alcohol
Concen: 3.385 ppbv
RT: 3.951 min Scan# 362
Delta R.T. -0.006 min
Lab File: VL038700.D
Acq: 23 Mar 2022 1:42



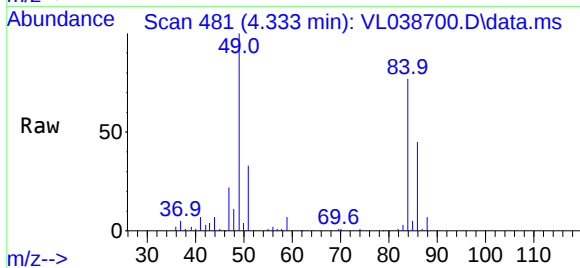
Tgt Ion: 45 Resp: 128934
Ion Ratio Lower Upper
45 100
58 365.7 2.3 3.5#





#20
Methylene Chloride
Concen: 1.564 ppbv
RT: 4.333 min Scan# 481
Delta R.T. -0.003 min
Lab File: VL038700.D
Acq: 23 Mar 2022 1:42

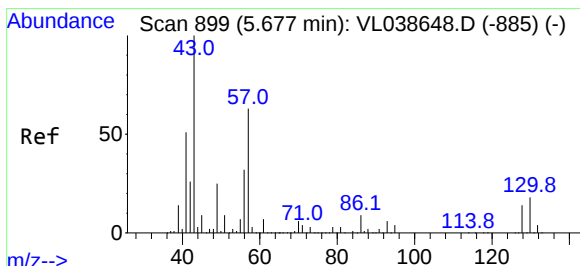
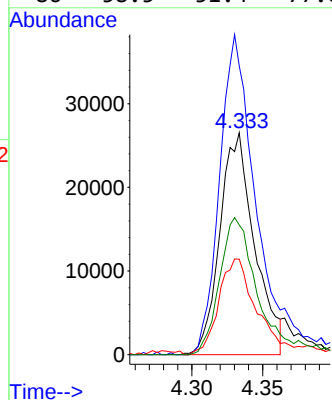
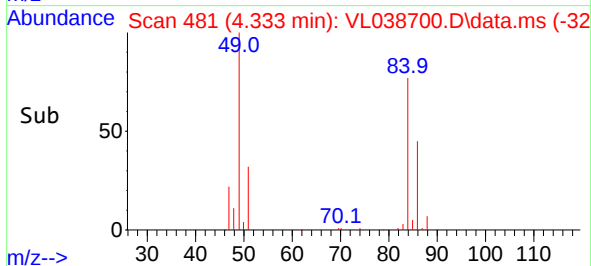
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COP89



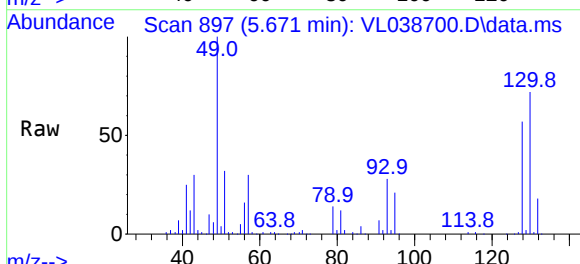
Tgt Ion: 84 Resp: 45240
Ion Ratio Lower Upper
84 100
49 128.7 111.2 166.8
51 41.3 32.8 49.2
86 58.5 51.4 77.0

Manual Integrations
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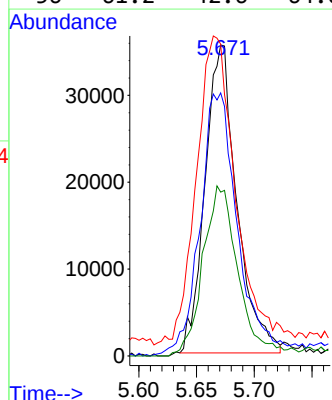
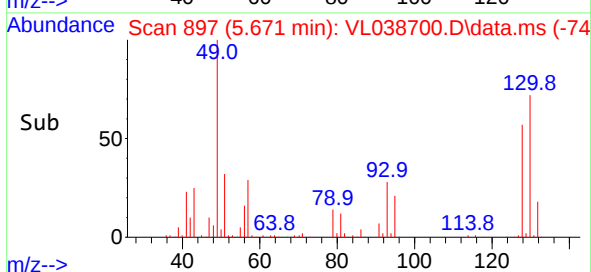
Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022

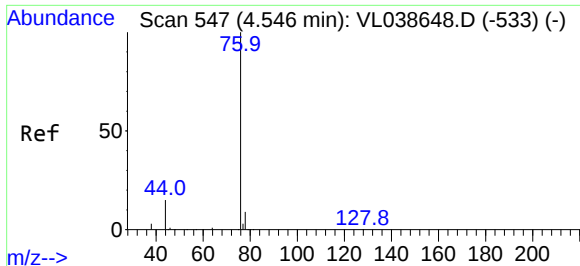


#26
Hexane
Concen: 0.880 ppbv
RT: 5.671 min Scan# 897
Delta R.T. -0.007 min
Lab File: VL038700.D
Acq: 23 Mar 2022 1:42



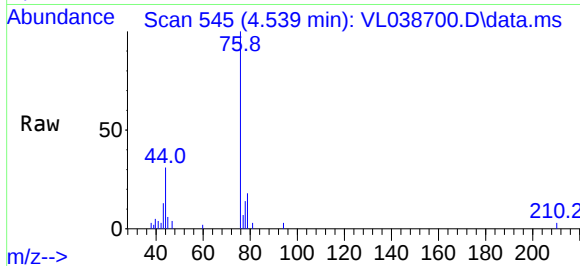
Tgt Ion: 57 Resp: 68151
Ion Ratio Lower Upper
57 100
41 101.8 67.0 100.4#
43 135.1 184.2 276.2#
56 61.2 42.6 64.0





#27
Carbon Disulfide
Concen: 0.186 ppbv
RT: 4.539 min Scan# 547
Delta R.T. -0.007 min
Lab File: VL038700.D
Acq: 23 Mar 2022 1:42

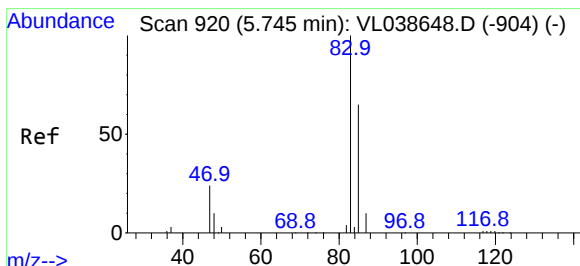
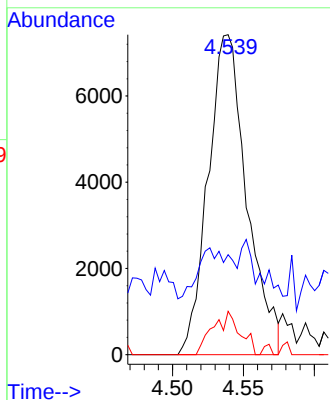
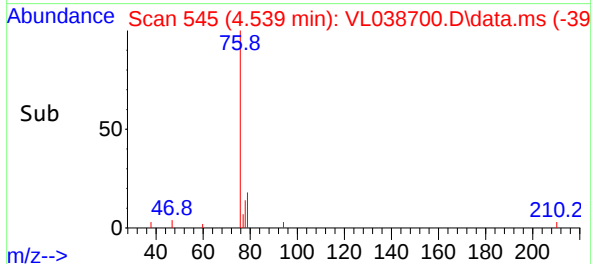
Instrument :
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COP89



Tgt Ion: 76 Resp: 14110
Ion Ratio Lower Upper
76 100
44 38.9 12.4 18.6
78 10.7 7.8 11.8

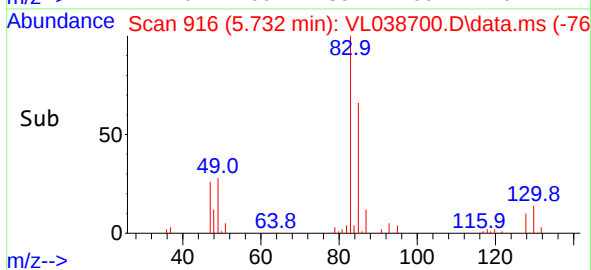
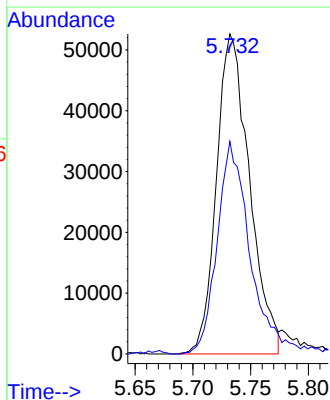
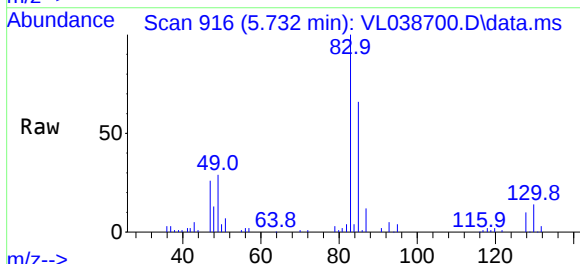
Manual Integrations
APPROVED

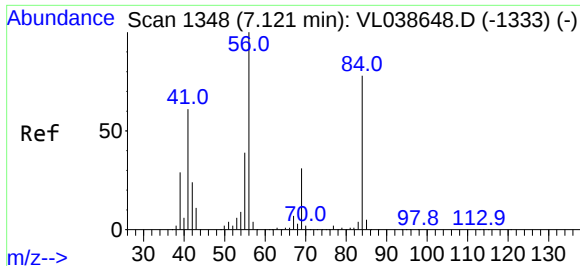
Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022



#29
Chloroform
Concen: 0.845 ppbv
RT: 5.732 min Scan# 916
Delta R.T. -0.013 min
Lab File: VL038700.D
Acq: 23 Mar 2022 1:42

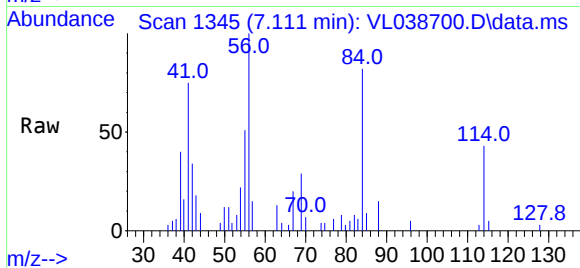
Tgt Ion: 83 Resp: 104699
Ion Ratio Lower Upper
83 100
85 66.4 51.7 77.5





#30
Cyclohexane
Concen: 0.208 ppbv m
RT: 7.111 min Scan# 1133
Delta R.T. -0.010 min
Lab File: VL038700.D
Acq: 23 Mar 2022 1:42

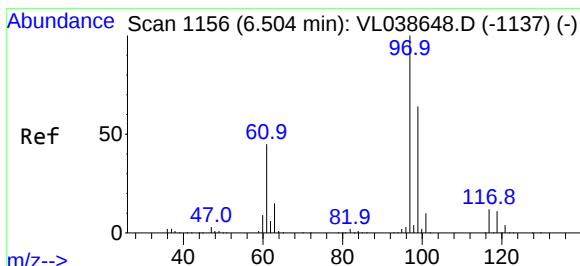
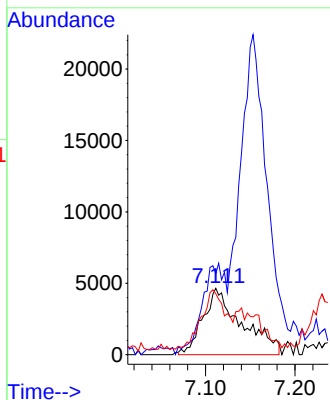
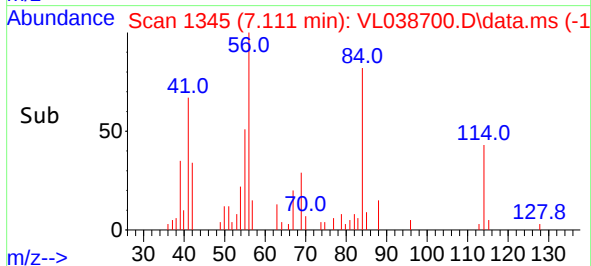
Instrument :
MSVOA_L
ClientSampleId :
COP89



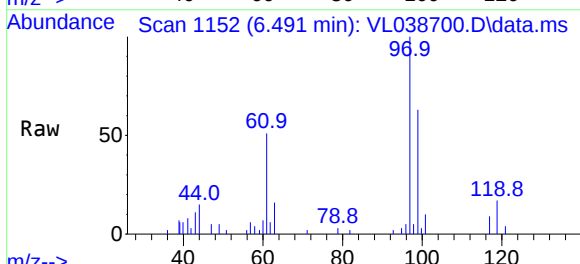
Tgt Ion: 84 Resp: 1396
Ion Ratio Lower Upper
84 100
56 0.0 108.2 162.4
41 75.8 61.8 92.6

Manual Integrations
APPROVED

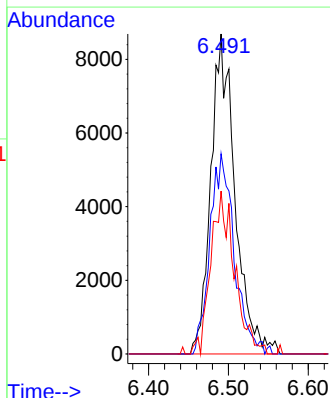
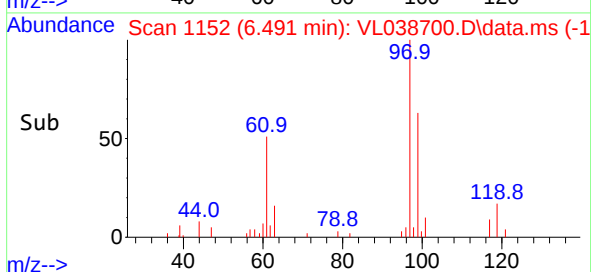
Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022

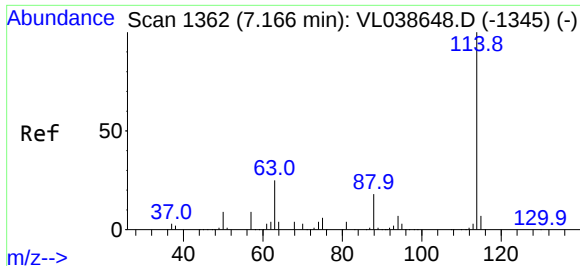


#32
1,1,1-Trichloroethane
Concen: 0.153 ppbv m
RT: 6.491 min Scan# 1152
Delta R.T. -0.013 min
Lab File: VL038700.D
Acq: 23 Mar 2022 1:42



Tgt Ion: 97 Resp: 18259
Ion Ratio Lower Upper
97 100
99 63.3 51.8 77.8
61 50.2 36.7 55.1





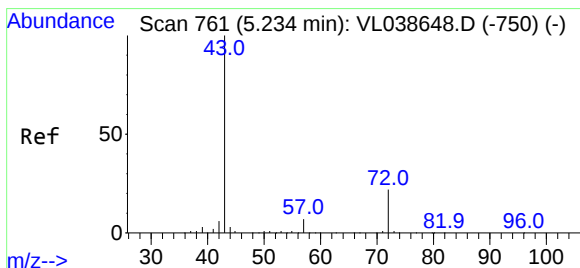
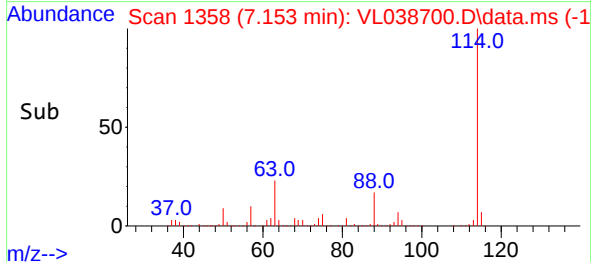
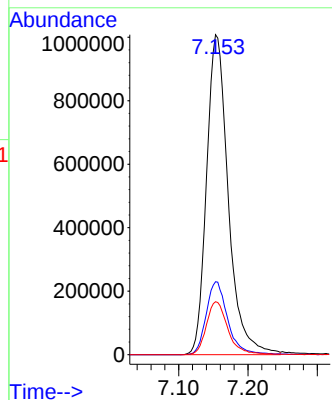
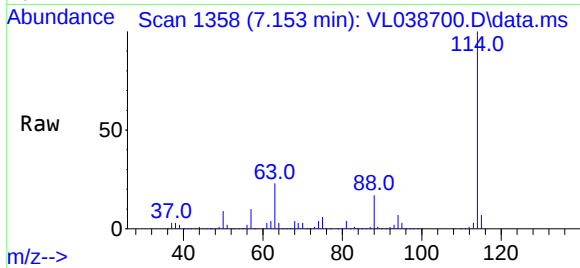
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.153 min Scan# 114
Delta R.T. -0.013 min
Lab File: VL038700.D
Acq: 23 Mar 2022 1:42

Instrument :
MSVOA_L
ClientSampleId :
COP89

Tgt Ion:114 Resp: 219382
Ion Ratio Lower Upper
114 100
63 22.8 19.4 29.0
88 16.6 13.9 20.9

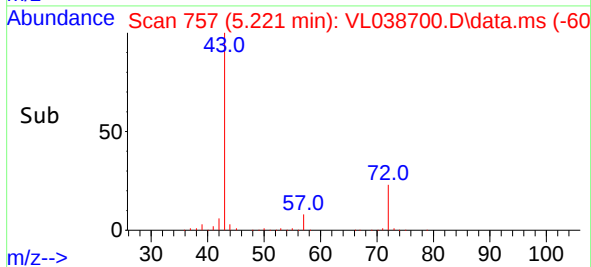
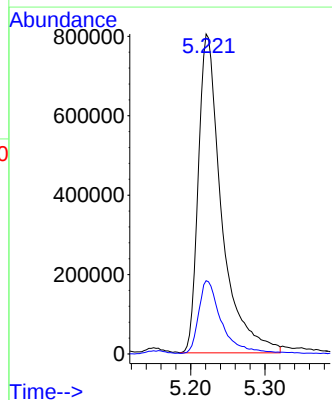
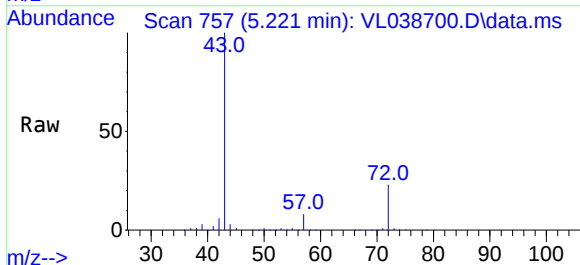
Manual Integrations
APPROVED

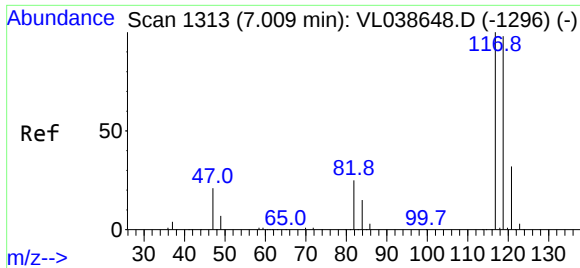
Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022



#34
2-Butanone
Concen: 20.161 ppbv
RT: 5.221 min Scan# 757
Delta R.T. -0.013 min
Lab File: VL038700.D
Acq: 23 Mar 2022 1:42

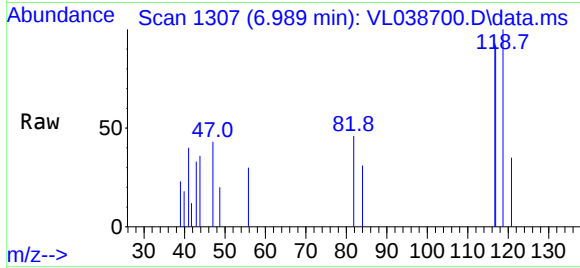
Tgt Ion: 43 Resp: 1750649
Ion Ratio Lower Upper
43 100
72 23.2 17.8 26.8





#35
Carbon Tetrachloride
Concen: 0.042 ppbv m
RT: 6.989 min Scan# 117
Delta R.T. -0.019 min
Lab File: VL038700.D
Acq: 23 Mar 2022 1:42

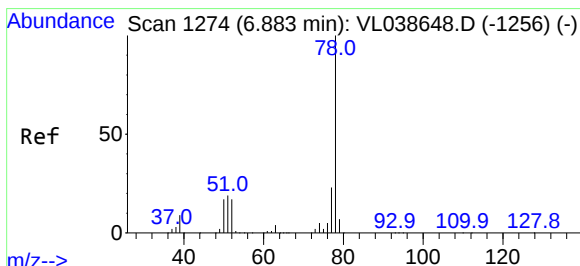
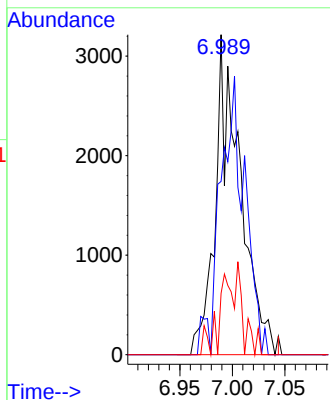
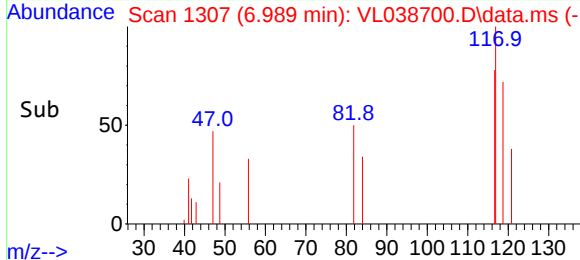
Instrument :
MSVOA_L
ClientSampleId :
COP89



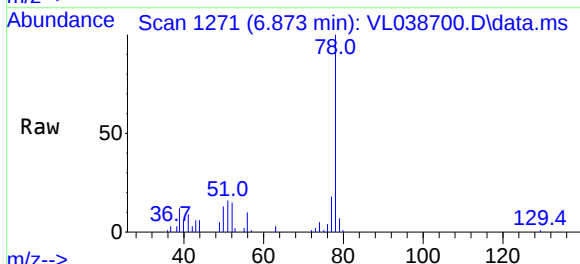
Tgt Ion:117 Resp: 535
Ion Ratio Lower Upper
117 100
119 107.9 78.1 117.1
121 38.2 25.8 38.6

Manual Integrations
APPROVED

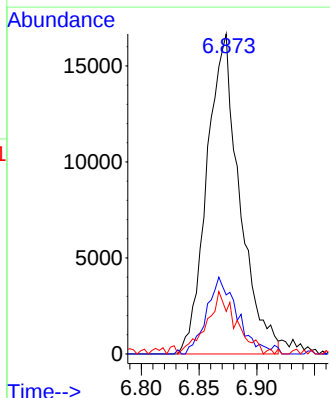
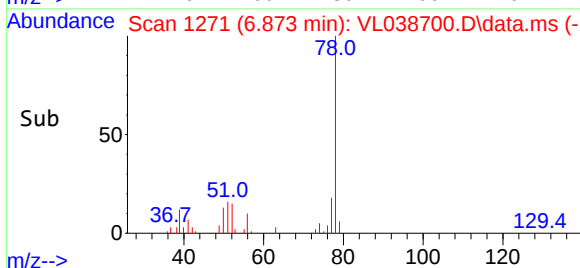
Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022

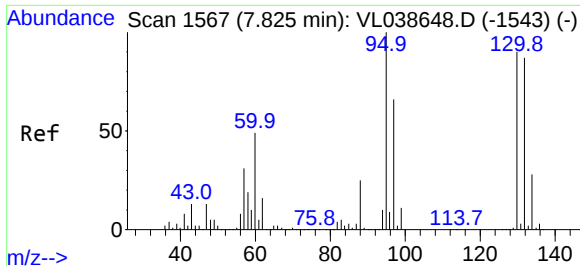


#36
Benzene
Concen: 0.194 ppbv
RT: 6.873 min Scan# 1271
Delta R.T. -0.010 min
Lab File: VL038700.D
Acq: 23 Mar 2022 1:42



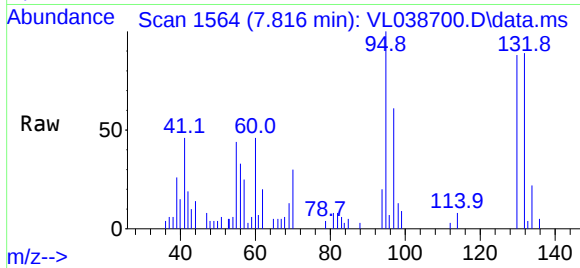
Tgt Ion: 78 Resp: 32833
Ion Ratio Lower Upper
78 100
77 17.2 18.1 27.1#
50 13.3 13.6 20.4#





#38
Trichloroethene
Concen: 0.131 ppbv
RT: 7.816 min Scan# 11
Delta R.T. -0.010 min
Lab File: VL038700.D
Acq: 23 Mar 2022 1:42

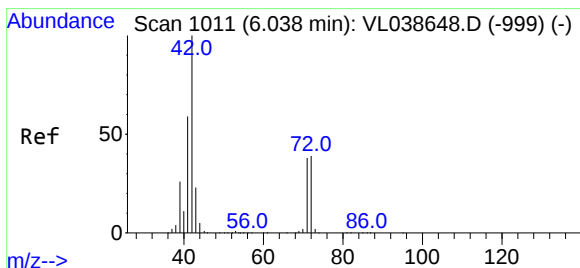
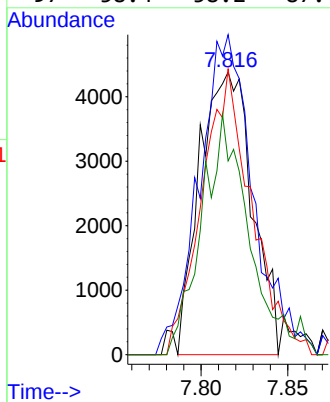
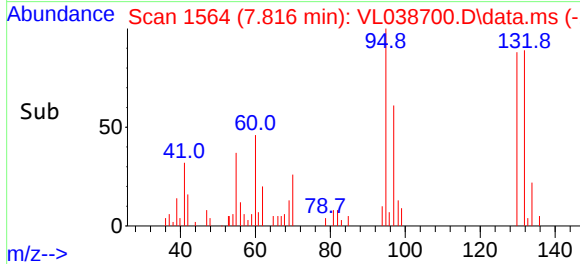
Instrument :
MSVOA_L
ClientSampleId :
COP89



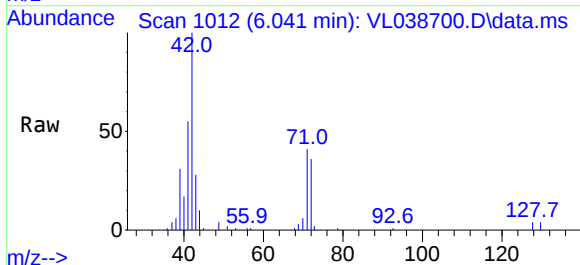
Tgt Ion:130 Resp: 928
Ion Ratio Lower Upper
130 100
95 103.9 88.9 133.3
132 93.0 77.4 116.0
97 58.4 58.2 87.4

Manual Integrations
APPROVED

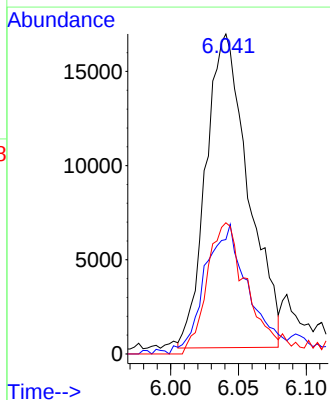
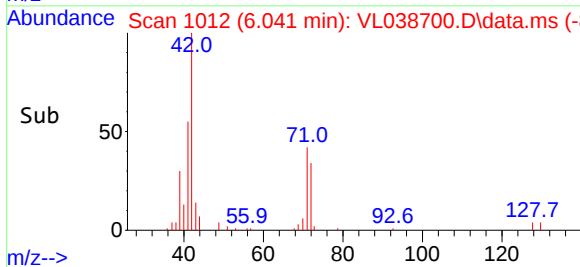
Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022

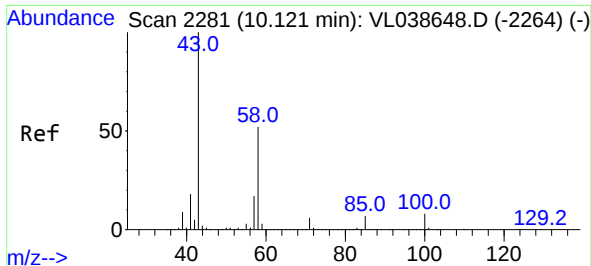


#41
Tetrahydrofuran
Concen: 0.561 ppbv
RT: 6.041 min Scan# 1012
Delta R.T. 0.003 min
Lab File: VL038700.D
Acq: 23 Mar 2022 1:42



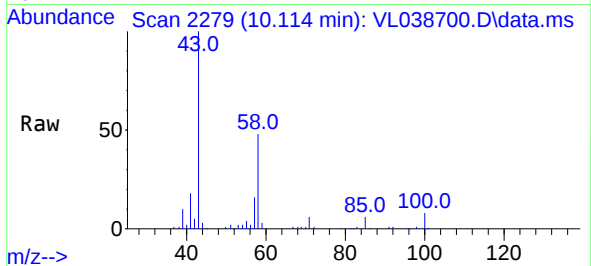
Tgt Ion: 42 Resp: 36255
Ion Ratio Lower Upper
42 100
72 46.7 32.5 48.7
71 42.8 31.4 47.2





#51
2-Hexanone
Concen: 1.172 ppbv
RT: 10.114 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL038700.D
Acq: 23 Mar 2022 1:42

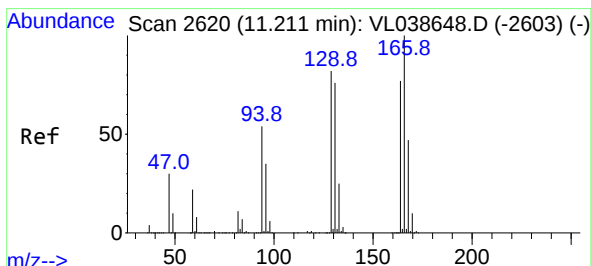
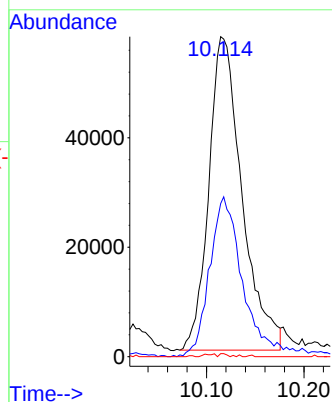
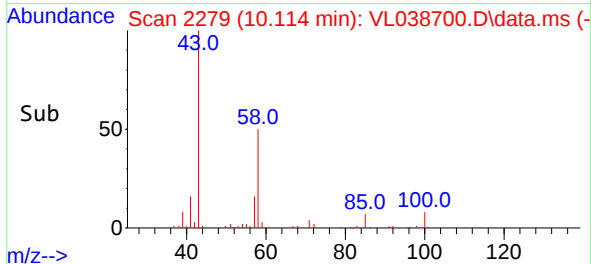
Instrument :
MSVOA_L
ClientSampleId :
COP89



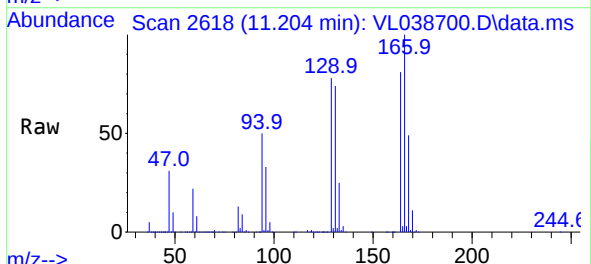
Tgt Ion: 43 Resp: 13591
Ion Ratio Lower Upper
43 100
58 51.1 41.2 61.8
98 0.7 0.2 0.4

Manual Integrations
APPROVED

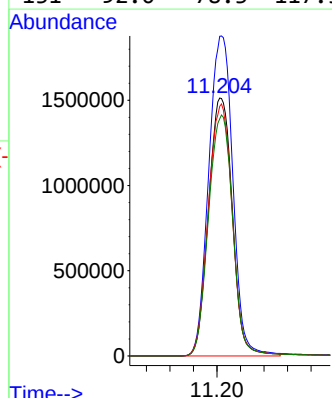
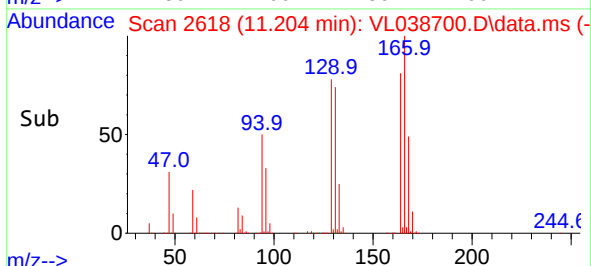
Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022

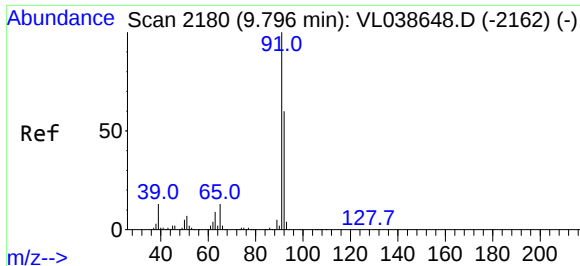


#52
Tetrachloroethene
Concen: 68.818 ppbv
RT: 11.204 min Scan# 2618
Delta R.T. -0.006 min
Lab File: VL038700.D
Acq: 23 Mar 2022 1:42



Tgt Ion:164 Resp: 4263985
Ion Ratio Lower Upper
164 100
166 124.0 103.3 154.9
129 96.8 85.2 127.8
131 92.0 78.3 117.5





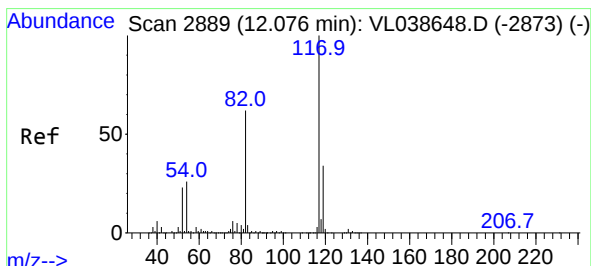
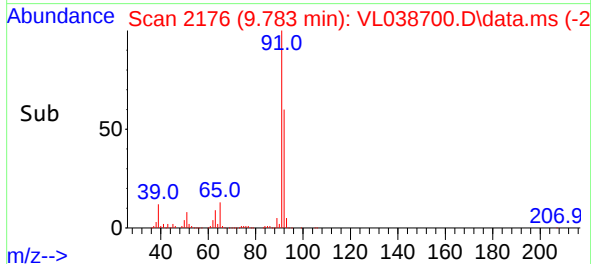
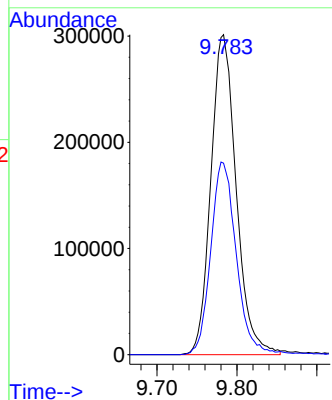
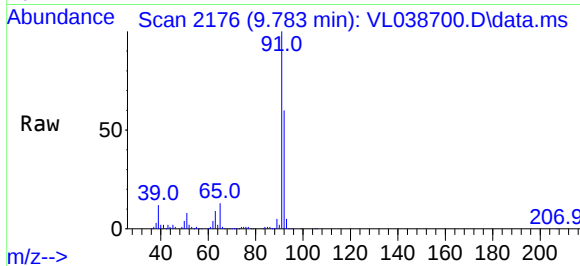
#53
Toluene
Concen: 3.645 ppbv
RT: 9.783 min Scan# 2180
Delta R.T. -0.013 min
Lab File: VL038700.D
Acq: 23 Mar 2022 1:42

Instrument :
MSVOA_L
ClientSampleId :
COP89

Tgt Ion: 91 Resp: 66312
Ion Ratio Lower Upper
91 100
92 61.1 48.7 73.1

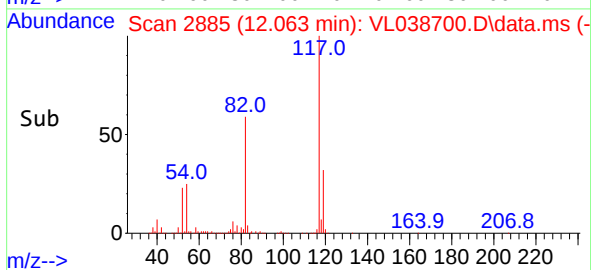
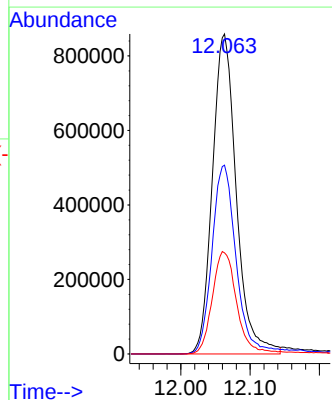
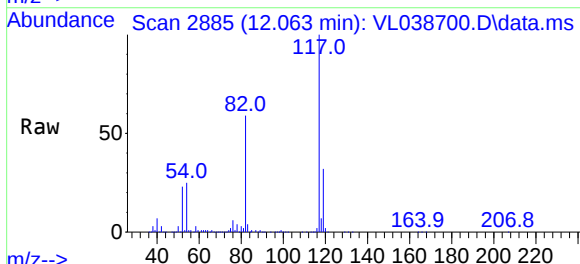
Manual Integrations
APPROVED

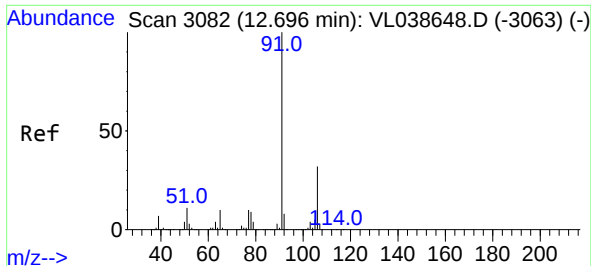
Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.063 min Scan# 2885
Delta R.T. -0.013 min
Lab File: VL038700.D
Acq: 23 Mar 2022 1:42

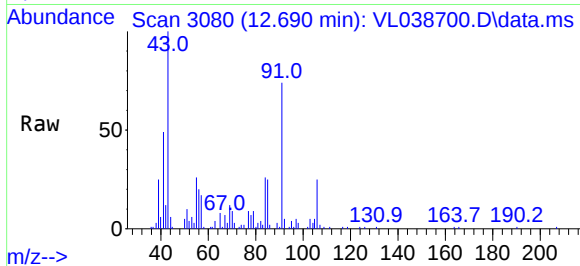
Tgt Ion:117 Resp: 2058724
Ion Ratio Lower Upper
117 100
82 62.1 51.6 77.4
119 33.9 26.9 40.3





#58
Ethyl Benzene
Concen: 0.173 ppbv m
RT: 12.690 min Scan# 3082
Delta R.T. -0.006 min
Lab File: VL038700.D
Acq: 23 Mar 2022 1:42

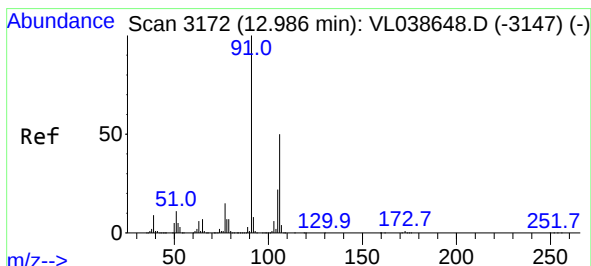
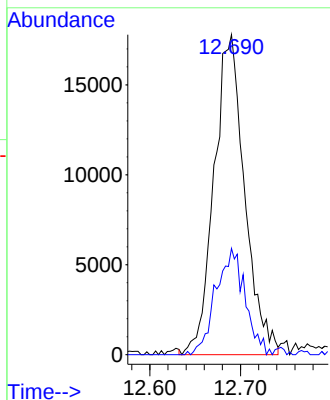
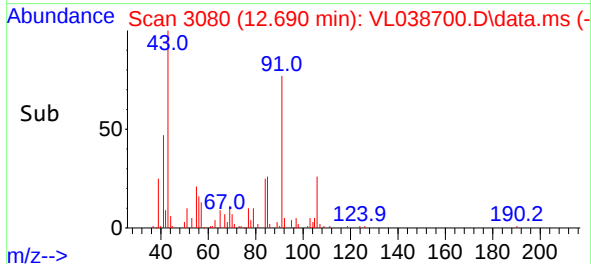
Instrument :
MSVOA_L
ClientSampleId :
COP89



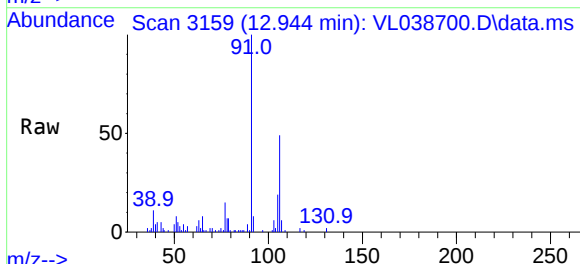
Tgt Ion: 91 Resp: 4161
Ion Ratio Lower Upper
91 100
106 33.2 25.4 38.0

Manual Integrations
APPROVED

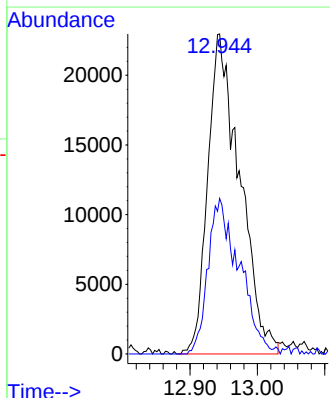
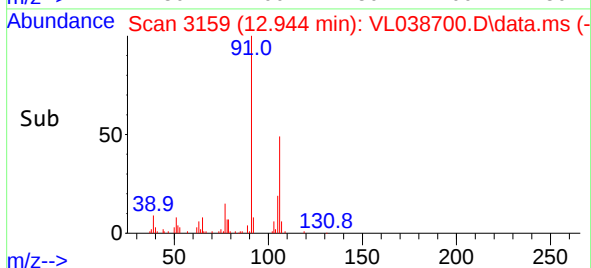
Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022

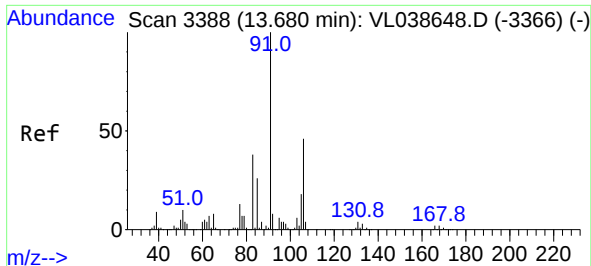


#59
m/p-Xylene
Concen: 0.361 ppbv m
RT: 12.944 min Scan# 3159
Delta R.T. -0.042 min
Lab File: VL038700.D
Acq: 23 Mar 2022 1:42



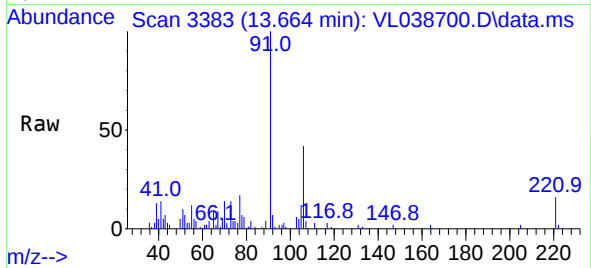
Tgt Ion: 91 Resp: 75977
Ion Ratio Lower Upper
91 100
106 0.0 37.2 55.8#





#60
o-Xylene
Concen: 0.164 ppbv
RT: 13.664 min Scan# 31
Delta R.T. -0.016 min
Lab File: VL038700.D
Acq: 23 Mar 2022 1:42

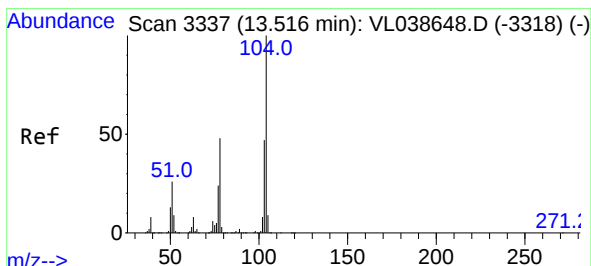
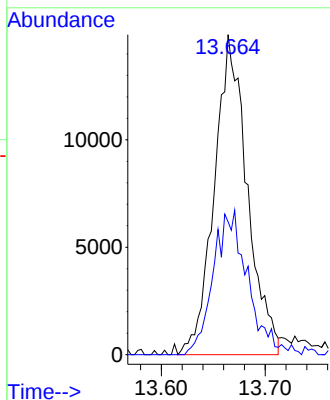
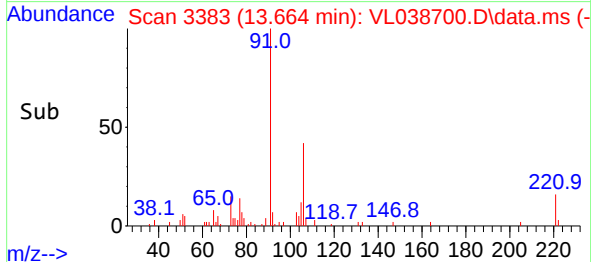
Instrument :
MSVOA_L
ClientSampleId :
COP89



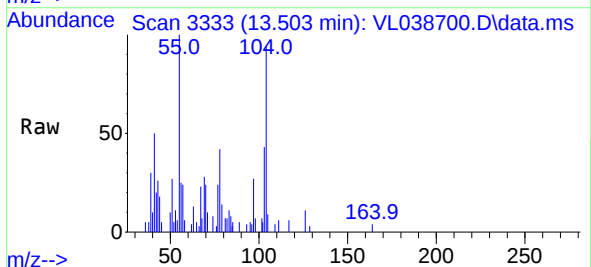
Tgt Ion: 91 Resp: 3279
Ion Ratio Lower Upper
91 100
106 48.1 23.5 70.5

Manual Integrations
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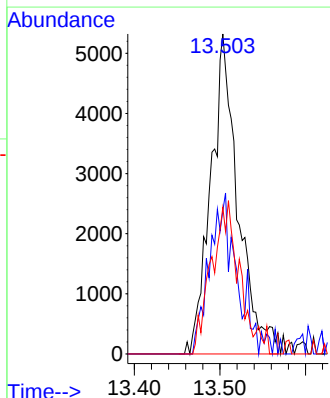
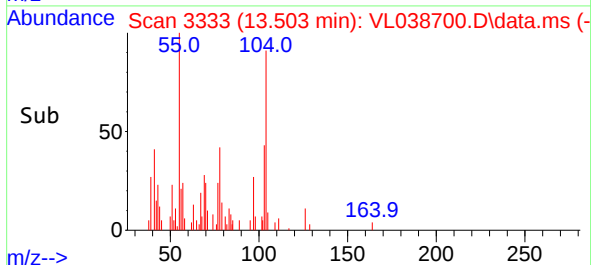
Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022

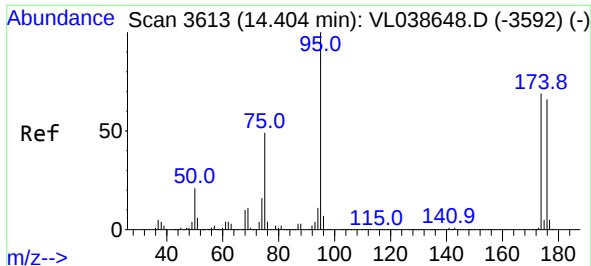


#61
Styrene
Concen: 0.109 ppbv m
RT: 13.503 min Scan# 3333
Delta R.T. -0.013 min
Lab File: VL038700.D
Acq: 23 Mar 2022 1:42



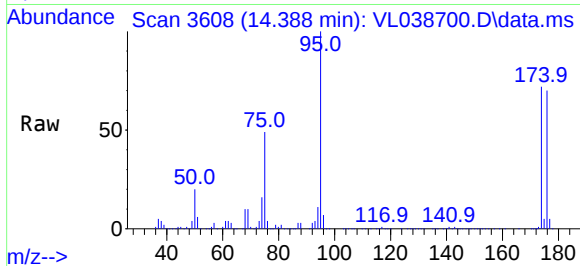
Tgt Ion:104 Resp: 11832
Ion Ratio Lower Upper
104 100
78 50.6 39.0 58.4
103 49.2 37.8 56.8





#68
1-Bromo-4-Fluorobenzene
Concen: 9.515 ppbv
RT: 14.388 min Scan# 30
Delta R.T. -0.016 min
Lab File: VL038700.D
Acq: 23 Mar 2022 1:42

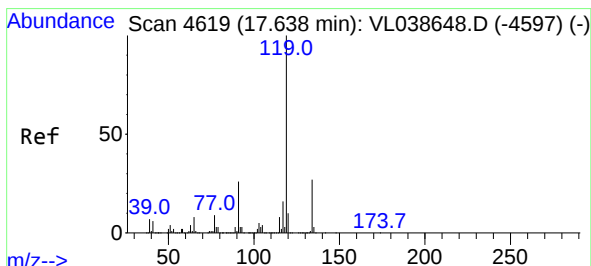
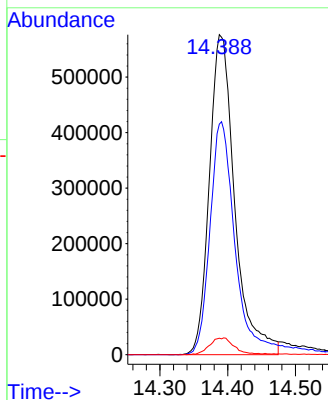
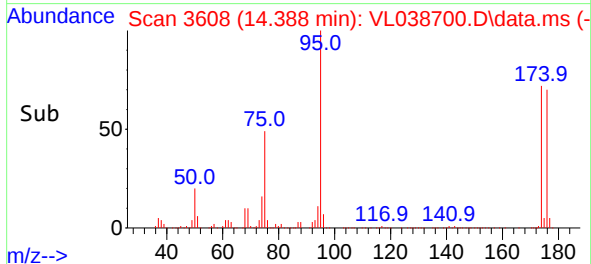
Instrument :
MSVOA_L
ClientSampleId :
COP89



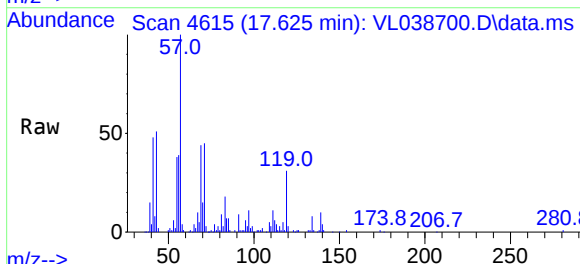
Tgt Ion: 95 Resp: 150185
Ion Ratio Lower Upper
95 100
174 75.2 56.1 84.1
175 5.5 4.2 6.2

Manual Integrations
APPROVED

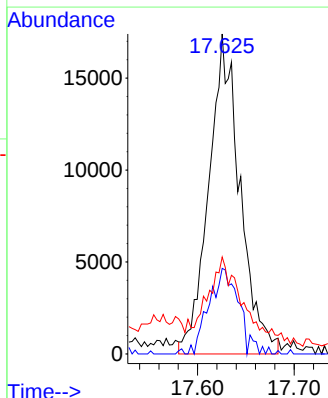
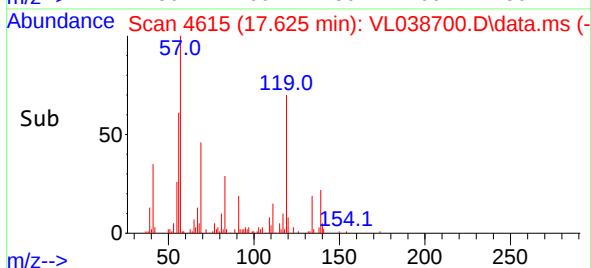
Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022

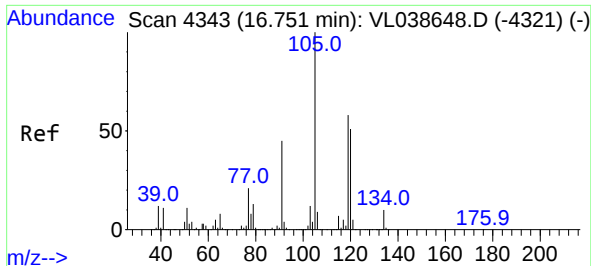


#69
p-Isopropyltoluene
Concen: 0.124 ppbv m
RT: 17.625 min Scan# 4615
Delta R.T. -0.013 min
Lab File: VL038700.D
Acq: 23 Mar 2022 1:42



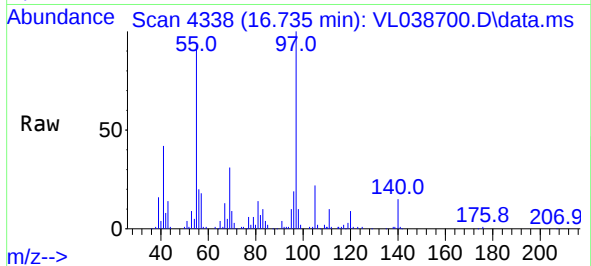
Tgt Ion:119 Resp: 39028
Ion Ratio Lower Upper
119 100
134 25.9 21.2 31.8
91 43.0 21.4 32.2#





#74
1,2,4-Trimethylbenzene
Concen: 0.129 ppbv m
RT: 16.735 min Scan# 41
Delta R.T. -0.016 min
Lab File: VL038700.D
Acq: 23 Mar 2022 1:42

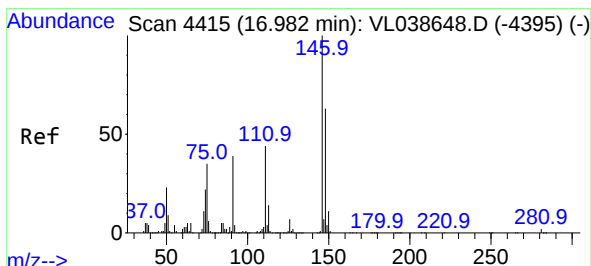
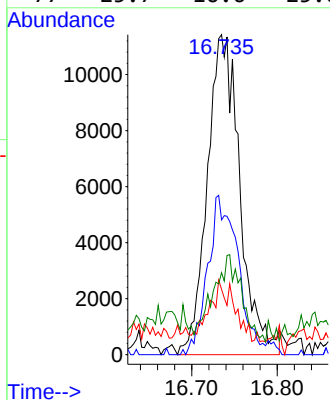
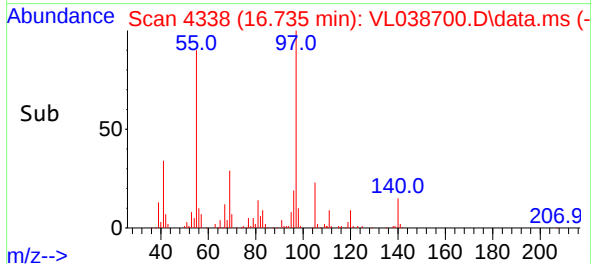
Instrument :
MSVOA_L
ClientSampleId :
COP89



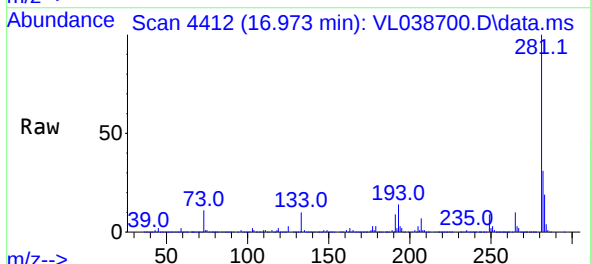
Tgt Ion:105 Resp: 30260
Ion Ratio Lower Upper
105 100
120 42.1 40.5 60.7
91 20.4 35.9 53.9
77 25.7 16.6 25.0#

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022



#75
1,3-Dichlorobenzene
Concen: 0.283 ppbv m
RT: 16.973 min Scan# 4412
Delta R.T. -0.010 min
Lab File: VL038700.D
Acq: 23 Mar 2022 1:42



Tgt Ion:146 Resp: 42165
Ion Ratio Lower Upper
146 100
111 231.8 22.2 66.6#
148 0.0 32.5 97.5#

