

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032222\
 Data File : VL038690.D
 Acq On : 22 Mar 2022 19:05
 Operator : SY/AP
 Sample : N1961-12
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P75

Manual Integrations
 APPROVED

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

Quant Time: Mar 23 04:15:54 2022

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 2

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	837535	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.163	114	2238218	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.069	117	1977975	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.397 95 1476163 9.734 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 97.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.047	85	22585	0.201	ppbv	90
3) Chlorodifluoromethane	2.986	51	37560	0.425	ppbv #	89
4) Chloromethane	3.137	50	17629m	0.363	ppbv	
9) Propene	3.009	41	175350	4.106	ppbv	97
11) Trichlorofluoromethane	3.948	101	22857	0.230	ppbv	93
13) Ethanol	3.600	45	169102	35.896	ppbv	99
15) Acetone	3.838	43	1399609	19.367	ppbv #	88
17) tert-Butyl alcohol	4.301	59	15208m	0.241	ppbv	
19) Isopropyl Alcohol	3.964	45	41711	1.041	ppbv #	1
20) Methylene Chloride	4.337	84	605556	19.894	ppbv	97
26) Hexane	5.677	57	854241	10.488	ppbv #	40
29) Chloroform	5.742	83	13396m	0.103	ppbv	
30) Cyclohexane	7.118	84	61728	0.872	ppbv	92
31) cis-1,2-Dichloroethene	5.536	61	23153	0.302	ppbv	99
34) 2-Butanone	5.230	43	1847922	20.860	ppbv	97
35) Carbon Tetrachloride	7.008	117	7269	0.056	ppbv	92
36) Benzene	6.880	78	45091	0.261	ppbv	99
38) Trichloroethene	7.825	130	23400	0.323	ppbv #	85
41) Tetrahydrofuran	6.041	42	21790	0.330	ppbv #	83
44) 2,2,4-Trimethylpentane	7.857	57	39676m	0.137	ppbv	
51) 2-Hexanone	10.134	43	73900m	0.625	ppbv	
52) Tetrachloroethene	11.211	164	1619760	25.623	ppbv	97
53) Toluene	9.790	91	3438115	18.523	ppbv	99
58) Ethyl Benzene	12.693	91	28560m	0.124	ppbv	
59) m/p-Xylene	12.944	91	56300m	0.278	ppbv	
60) o-Xylene	13.674	91	25144	0.131	ppbv	97
62) Isopropylbenzene	14.651	105	109681	0.380	ppbv	99
69) p-Isopropyltoluene	17.635	119	33676m	0.111	ppbv	
74) 1,2,4-Trimethylbenzene	16.741	105	22882	0.102	ppbv #	77

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

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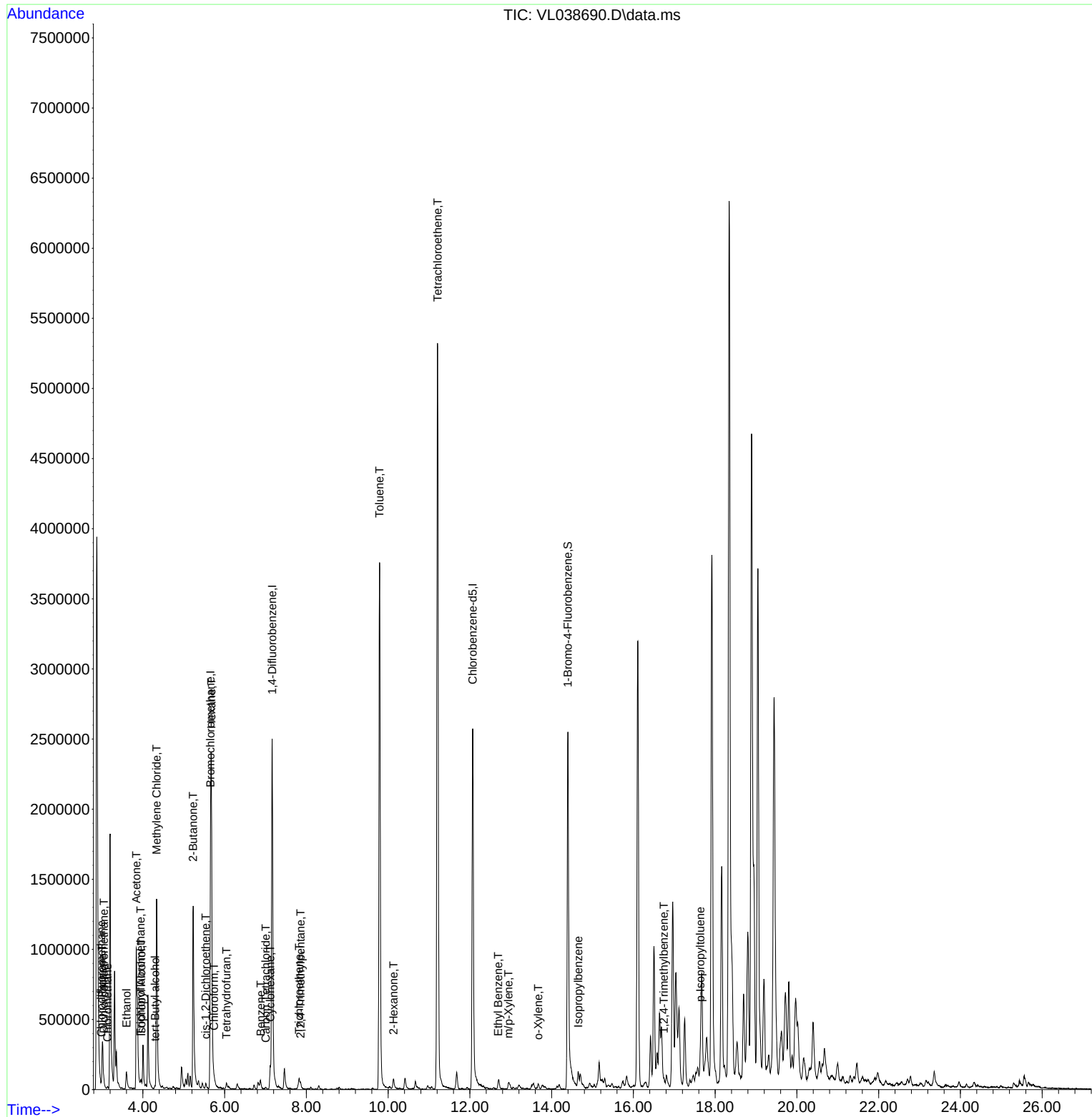
Quant Time: Mar 23 04:15:54 2022

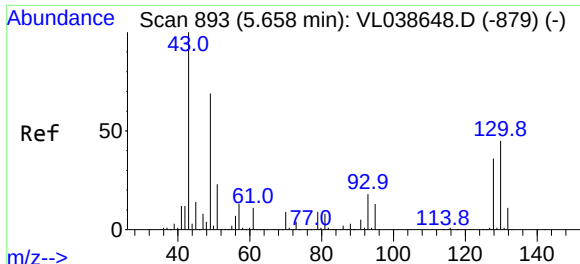
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032122AIR.M

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

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

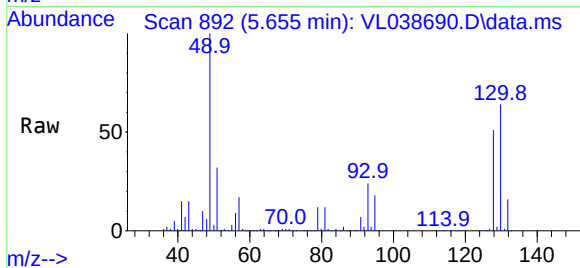
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.655 min Scan# 893
Delta R.T. -0.003 min
Lab File: VL038690.D
Acq: 22 Mar 2022 19:05

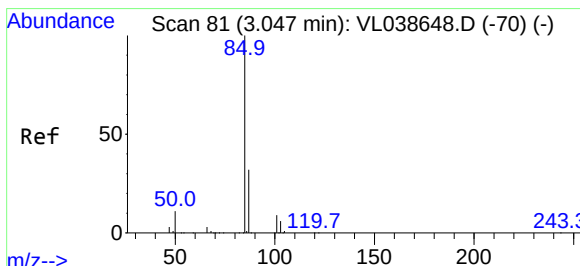
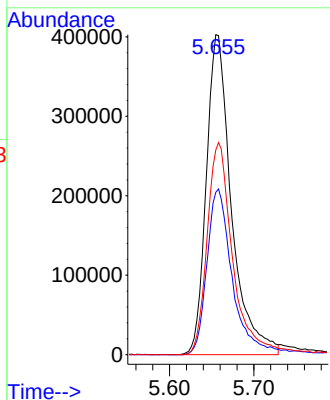
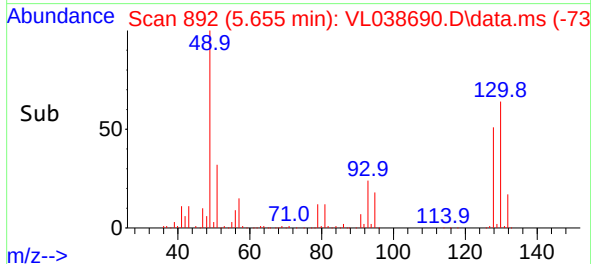
Instrument :
MSVOA_L
ClientSampleId :
COP75



Tgt Ion: 49 Resp: 83753
Ion Ratio Lower Upper
49 100
128 53.9 26.2 78.6
130 69.7 33.7 101.1

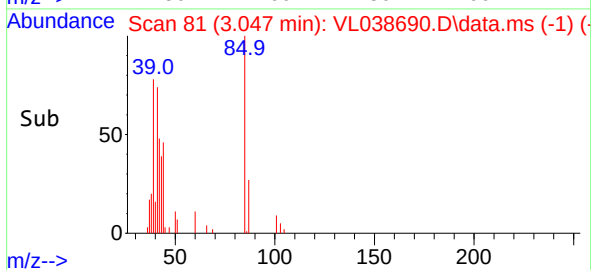
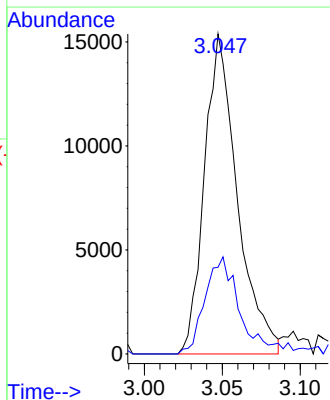
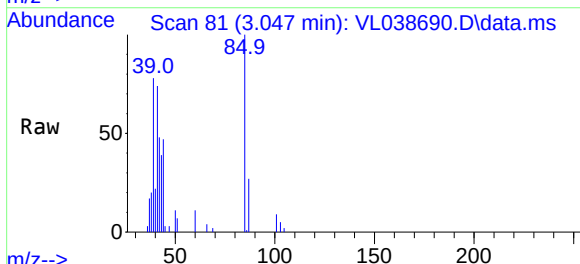
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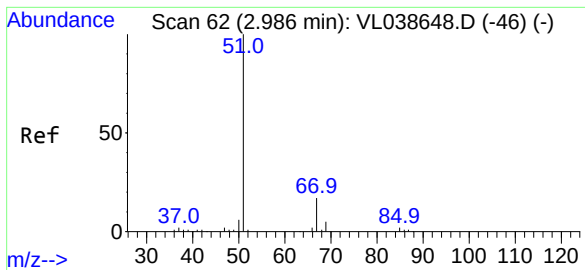
Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022



#2
Dichlorodifluoromethane
Concen: 0.201 ppbv
RT: 3.047 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL038690.D
Acq: 22 Mar 2022 19:05

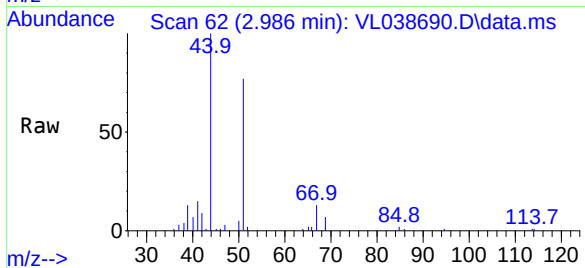
Tgt Ion: 85 Resp: 22585
Ion Ratio Lower Upper
85 100
87 27.1 26.0 39.0





#3
Chlorodifluoromethane
Concen: 0.425 ppbv
RT: 2.986 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL038690.D
Acq: 22 Mar 2022 19:05

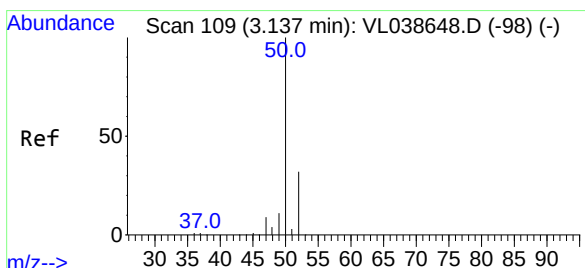
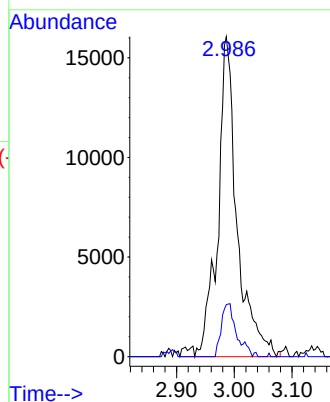
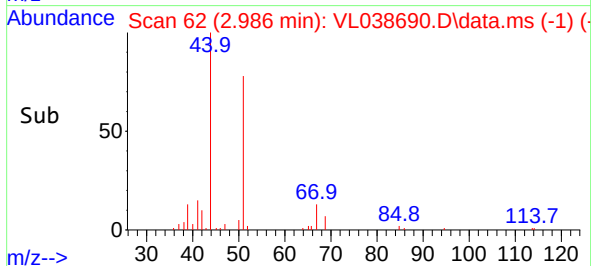
Instrument :
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ClientSampleId :
COP75



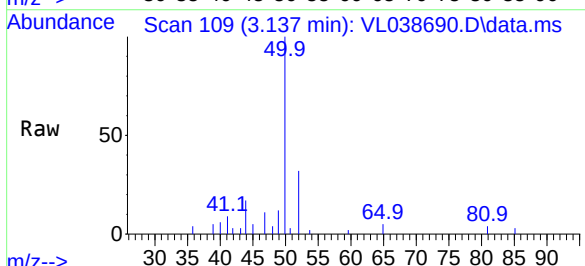
Tgt Ion: 51 Resp: 37560
Ion Ratio Lower Upper
51 100
67 12.9 14.1 21.1

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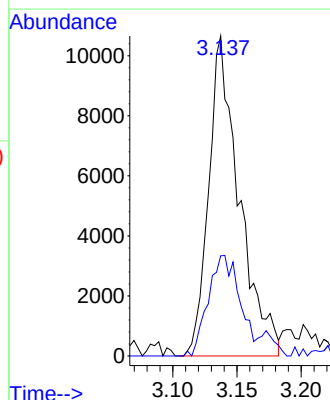
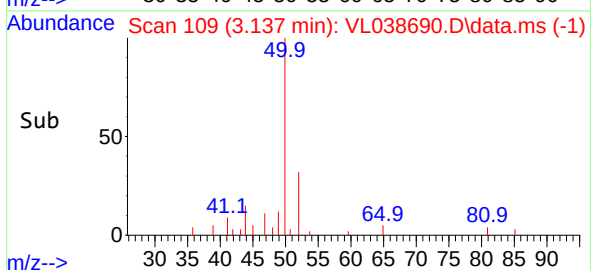
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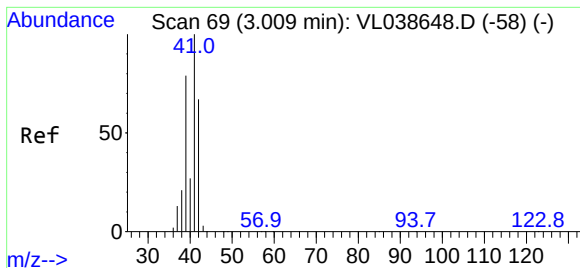


#4
Chloromethane
Concen: 0.363 ppbv m
RT: 3.137 min Scan# 109
Delta R.T. -0.000 min
Lab File: VL038690.D
Acq: 22 Mar 2022 19:05



Tgt Ion: 50 Resp: 17629
Ion Ratio Lower Upper
50 100
52 32.3 25.5 38.3





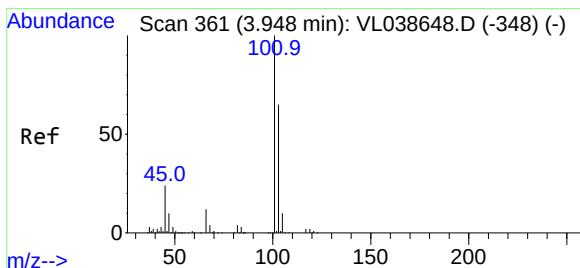
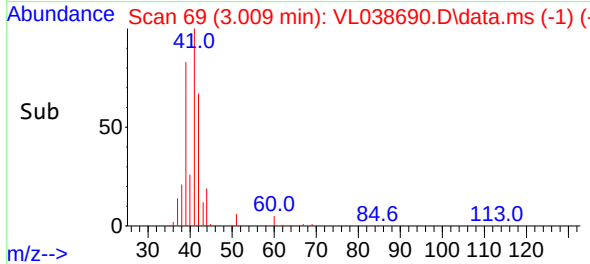
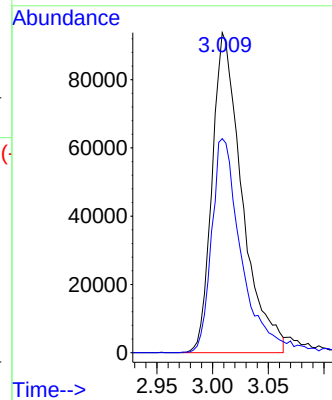
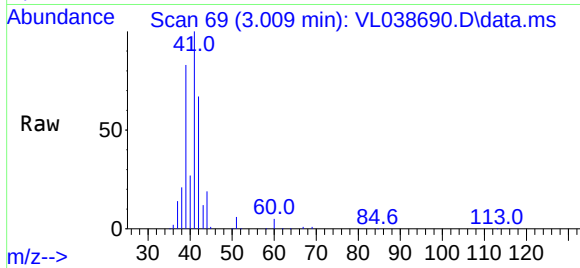
#9
Propene
Concen: 4.106 ppbv
RT: 3.009 min Scan# 69
Delta R.T. -0.000 min
Lab File: VL038690.D
Acq: 22 Mar 2022 19:05

Instrument :
MSVOA_L
ClientSampleId :
COP75

Tgt Ion: 41 Resp: 175350
Ion Ratio Lower Upper
41 100
42 67.9 56.2 84.4

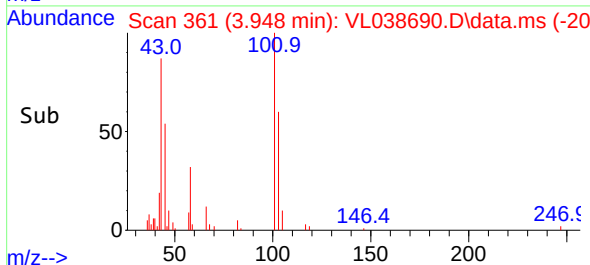
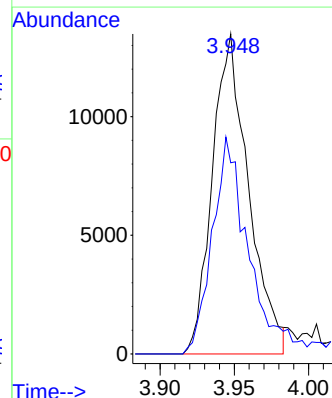
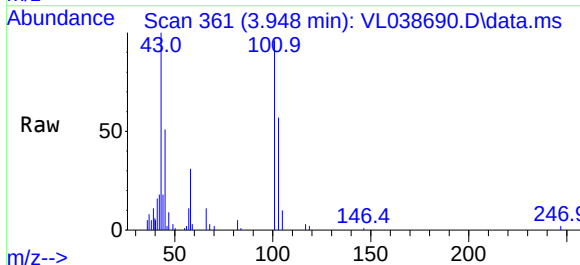
Manual Integrations
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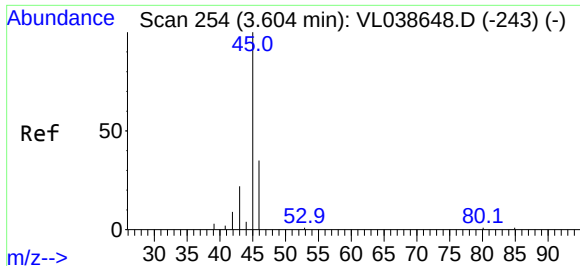
Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022



#11
Trichlorofluoromethane
Concen: 0.230 ppbv
RT: 3.948 min Scan# 361
Delta R.T. -0.000 min
Lab File: VL038690.D
Acq: 22 Mar 2022 19:05

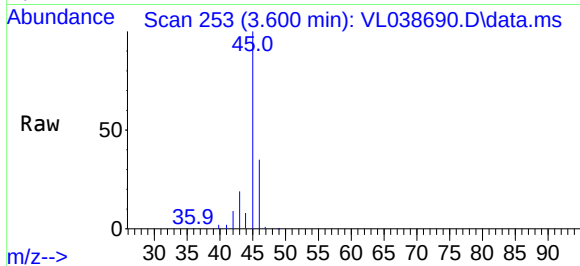
Tgt Ion:101 Resp: 22857
Ion Ratio Lower Upper
101 100
103 59.8 51.9 77.9





#13
Ethanol
Concen: 35.896 ppbv
RT: 3.600 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL038690.D
Acq: 22 Mar 2022 19:05

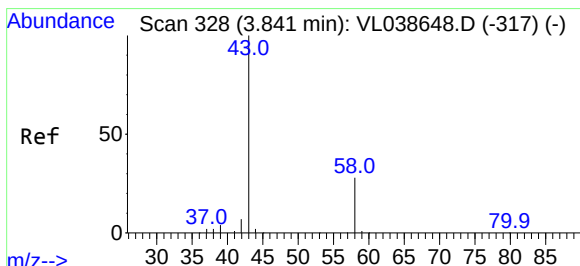
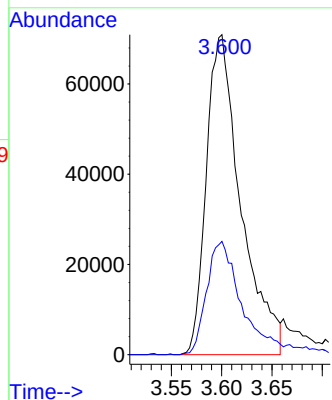
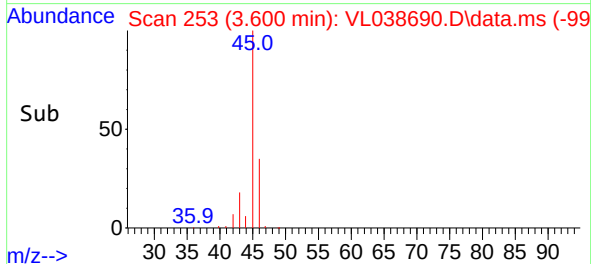
Instrument :
MSVOA_L
ClientSampleId :
COP75



Tgt Ion: 45 Resp: 169102
Ion Ratio Lower Upper
45 100
46 38.5 15.1 60.5

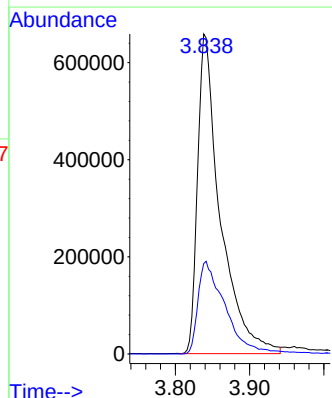
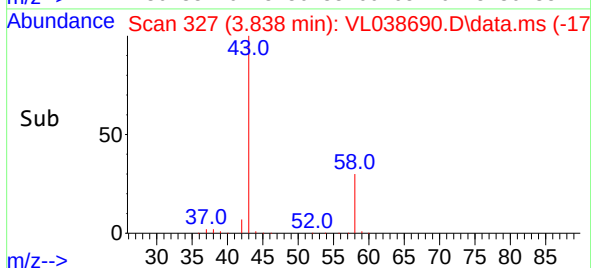
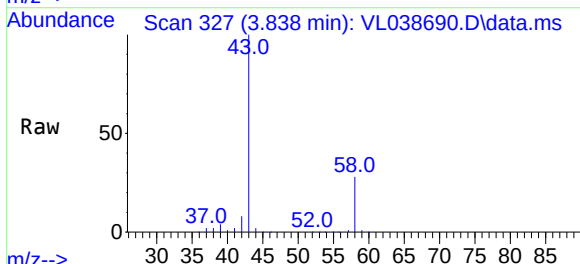
Manual Integrations
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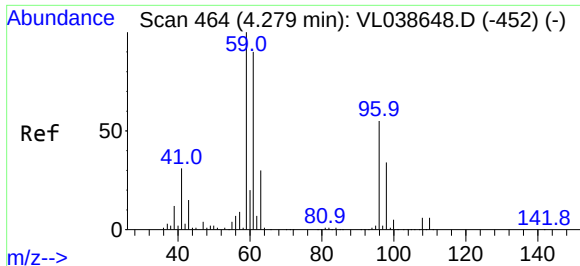
Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022



#15
Acetone
Concen: 19.367 ppbv
RT: 3.838 min Scan# 327
Delta R.T. -0.003 min
Lab File: VL038690.D
Acq: 22 Mar 2022 19:05

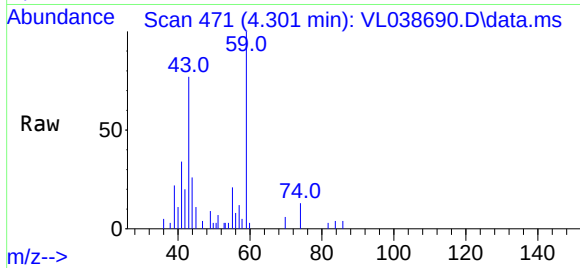
Tgt Ion: 43 Resp: 1399609
Ion Ratio Lower Upper
43 100
58 35.3 23.3 34.9





#17
tert-Butyl alcohol
Concen: 0.241 ppbv m
RT: 4.301 min Scan# 41
Delta R.T. 0.022 min
Lab File: VL038690.D
Acq: 22 Mar 2022 19:05

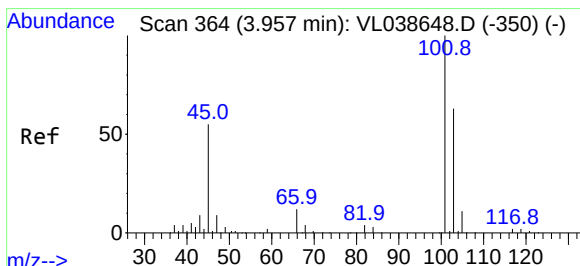
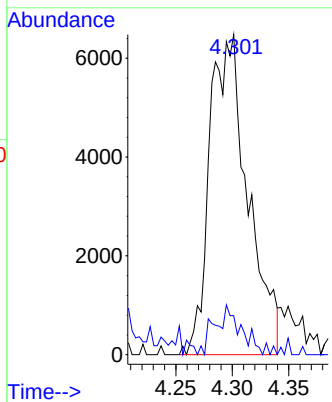
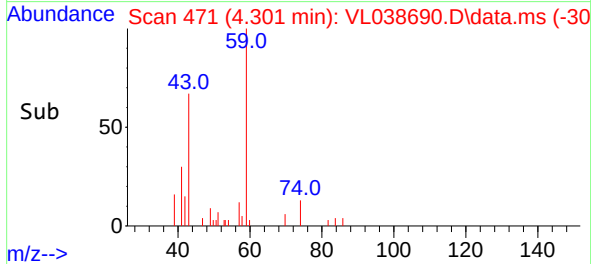
Instrument :
MSVOA_L
ClientSampleId :
COP75



Tgt Ion: 59 Resp: 15208
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2

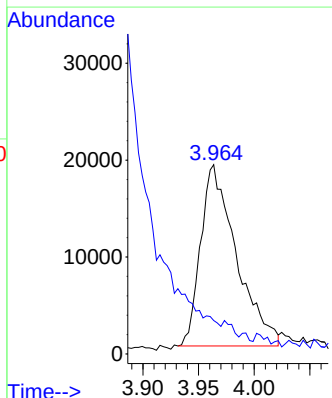
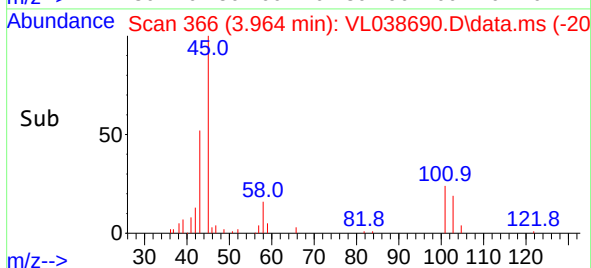
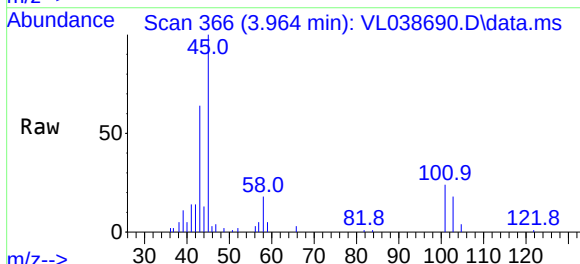
Manual Integrations
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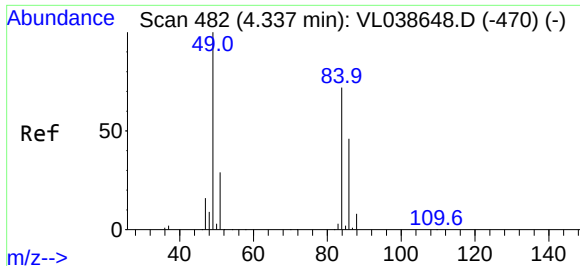
Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022



#19
Isopropyl Alcohol
Concen: 1.041 ppbv
RT: 3.964 min Scan# 366
Delta R.T. 0.006 min
Lab File: VL038690.D
Acq: 22 Mar 2022 19:05

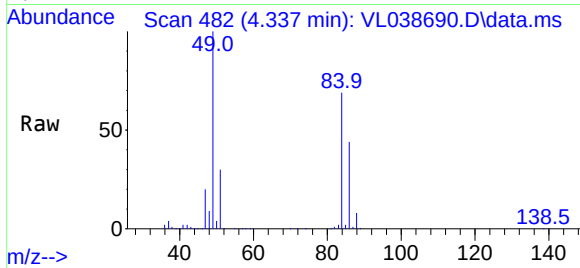
Tgt Ion: 45 Resp: 41711
Ion Ratio Lower Upper
45 100
58 1183.6 2.3 3.5#





#20
Methylene Chloride
Concen: 19.894 ppbv
RT: 4.337 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL038690.D
Acq: 22 Mar 2022 19:05

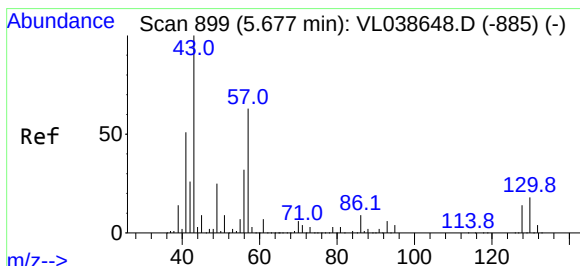
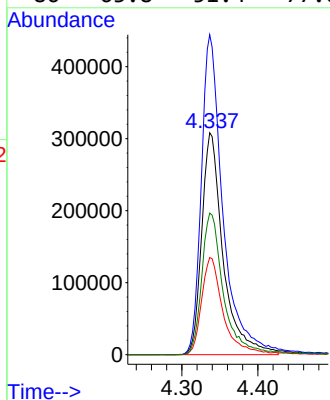
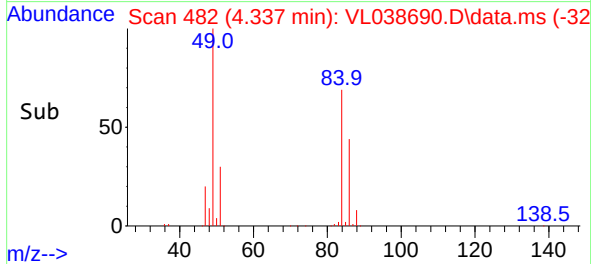
Instrument :
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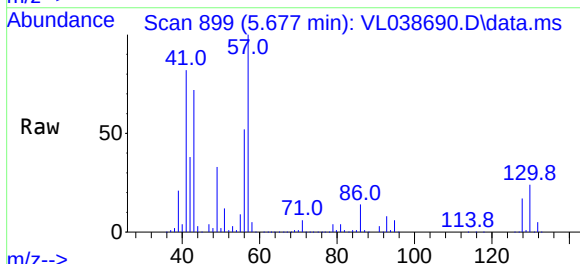
Tgt Ion: 84 Resp: 605550
Ion Ratio Lower Upper
84 100
49 144.2 111.2 166.8
51 43.6 32.8 49.2
86 63.8 51.4 77.0

Manual Integrations
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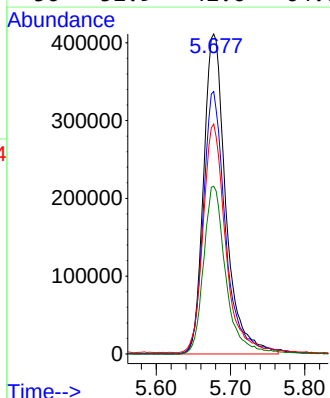
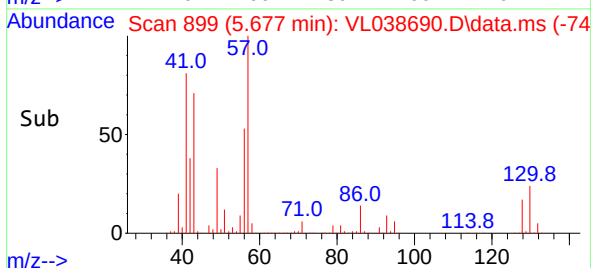
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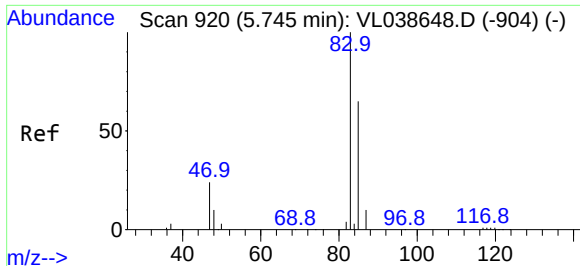


#26
Hexane
Concen: 10.488 ppbv
RT: 5.677 min Scan# 899
Delta R.T. -0.000 min
Lab File: VL038690.D
Acq: 22 Mar 2022 19:05



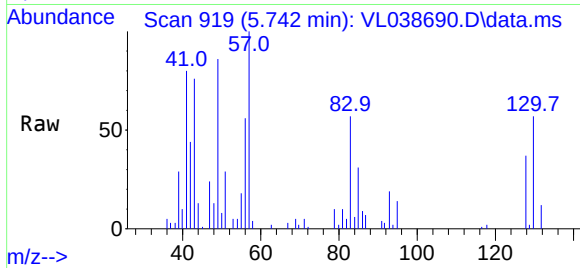
Tgt Ion: 57 Resp: 854241
Ion Ratio Lower Upper
57 100
41 82.8 67.0 100.4
43 73.0 184.2 276.2#
56 52.9 42.6 64.0





#29
Chloroform
Concen: 0.103 ppbv m
RT: 5.742 min Scan# 919
Delta R.T. -0.003 min
Lab File: VL038690.D
Acq: 22 Mar 2022 19:05

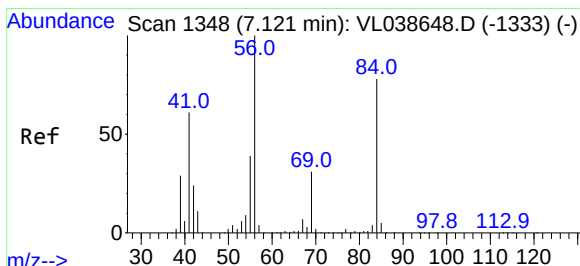
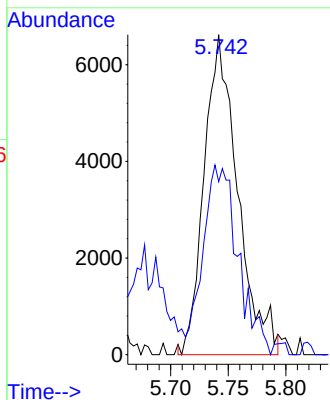
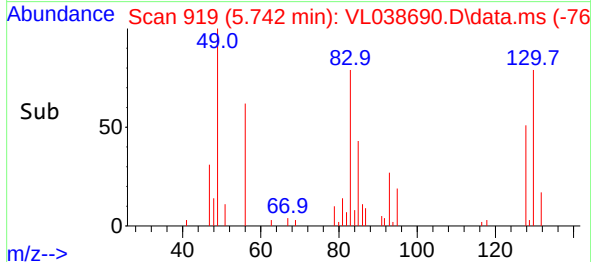
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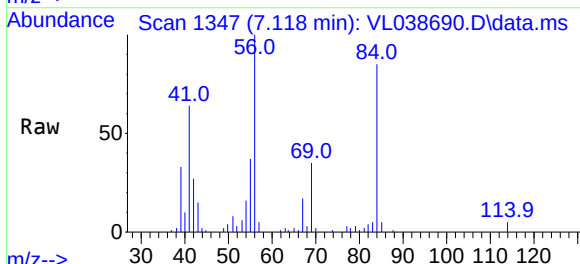
Tgt Ion: 83 Resp: 13390
Ion Ratio Lower Upper
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85 54.1 51.7 77.5

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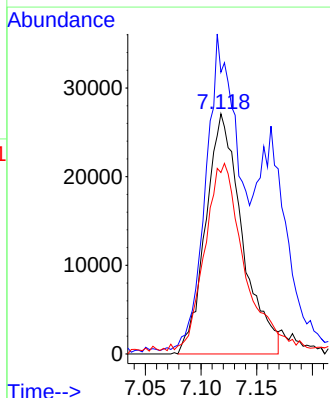
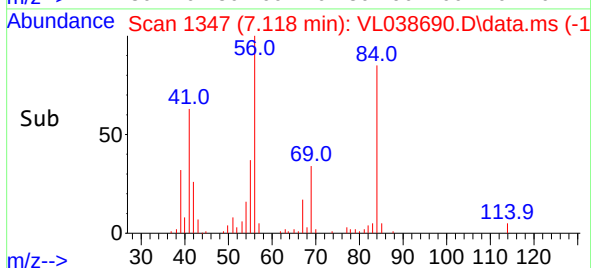
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Supervised By :Mahesh Dadoda 03/25/2022

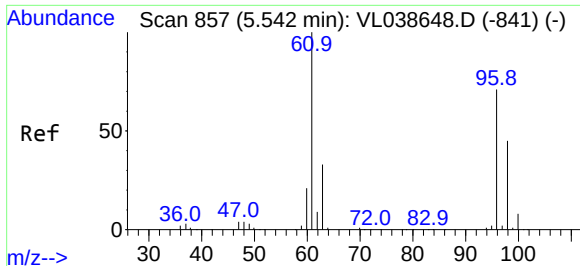


#30
Cyclohexane
Concen: 0.872 ppbv
RT: 7.118 min Scan# 1347
Delta R.T. -0.003 min
Lab File: VL038690.D
Acq: 22 Mar 2022 19:05



Tgt Ion: 84 Resp: 61728
Ion Ratio Lower Upper
84 100
56 125.4 108.2 162.4
41 84.6 61.8 92.6





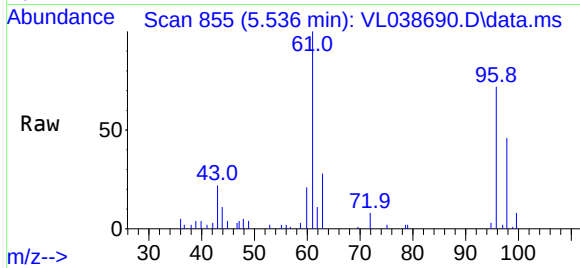
#31
 cis-1,2-Dichloroethene
 Concen: 0.302 ppbv
 RT: 5.536 min Scan# 81
 Delta R.T. -0.007 min
 Lab File: VL038690.D
 Acq: 22 Mar 2022 19:05

Instrument :

MSVOA_L

ClientSampleId :

COP75

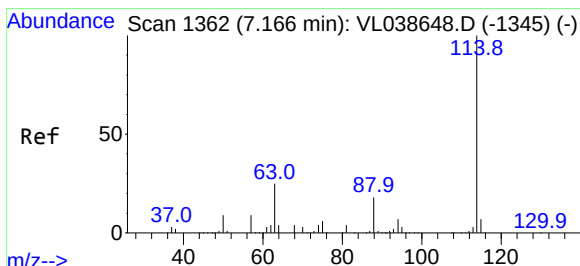
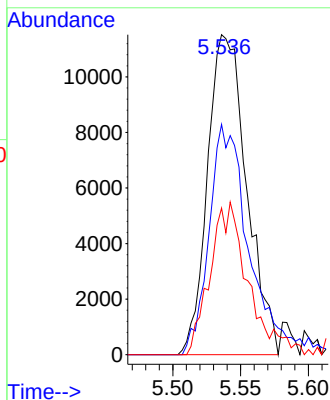
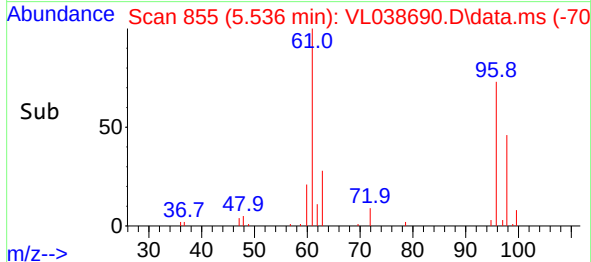


Tgt Ion: 61 Resp: 2315
 Ion Ratio Lower Upper
 61 100
 96 71.9 56.6 84.8
 98 45.8 36.3 54.5

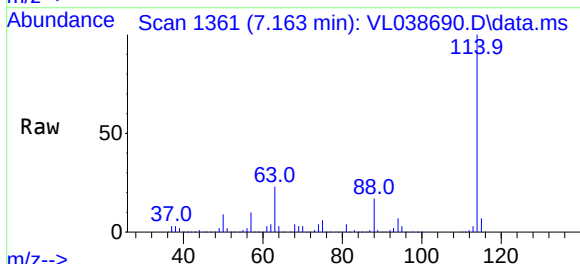
Manual Integrations

APPROVED

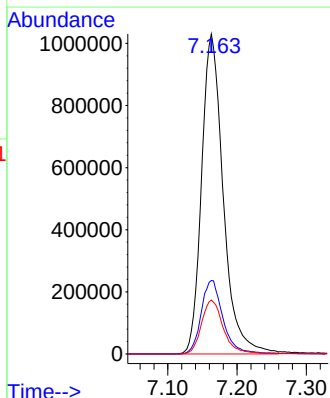
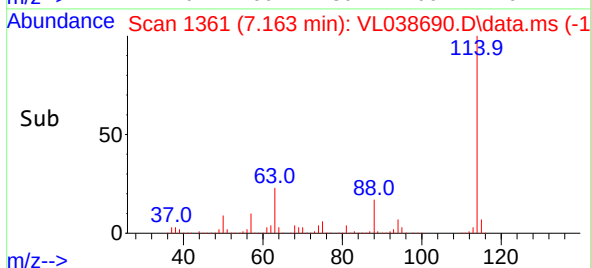
Reviewed By :Semsettin Yesilyurt 03/23/2022
 Supervised By :Mahesh Dadoda 03/25/2022

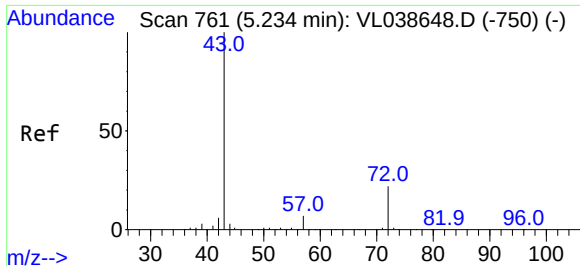


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.163 min Scan# 1361
 Delta R.T. -0.003 min
 Lab File: VL038690.D
 Acq: 22 Mar 2022 19:05



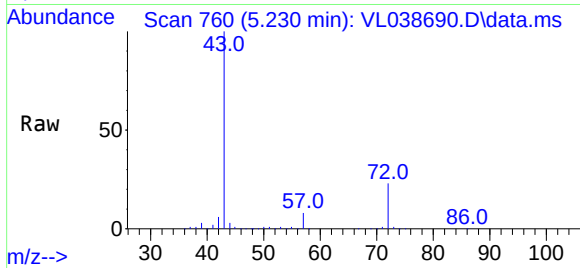
Tgt Ion:114 Resp: 2238218
 Ion Ratio Lower Upper
 114 100
 63 23.4 19.4 29.0
 88 17.0 13.9 20.9





#34
2-Butanone
Concen: 20.860 ppbv
RT: 5.230 min Scan# 761
Delta R.T. -0.003 min
Lab File: VL038690.D
Acq: 22 Mar 2022 19:05

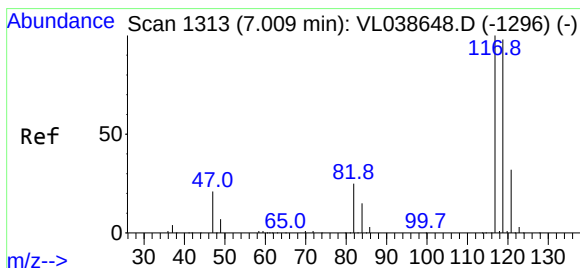
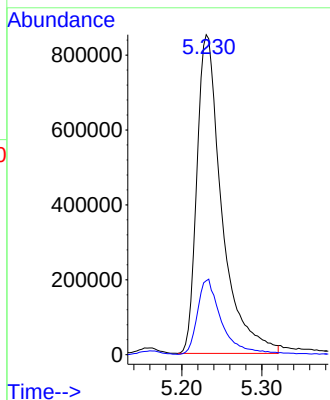
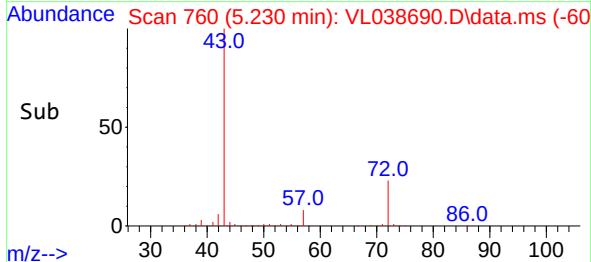
Instrument :
MSVOA_L
ClientSampleId :
COP75



Tgt Ion: 43 Resp: 184792
Ion Ratio Lower Upper
43 100
72 23.6 17.8 26.8

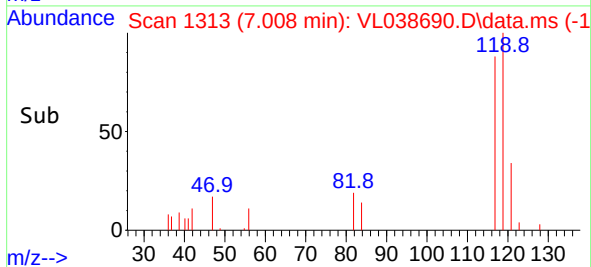
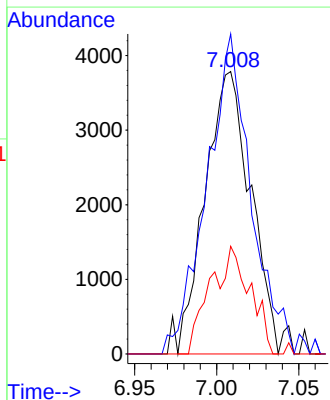
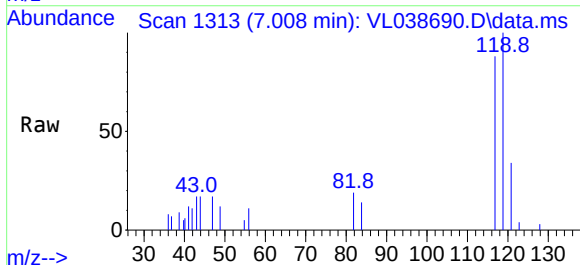
Manual Integrations
APPROVED

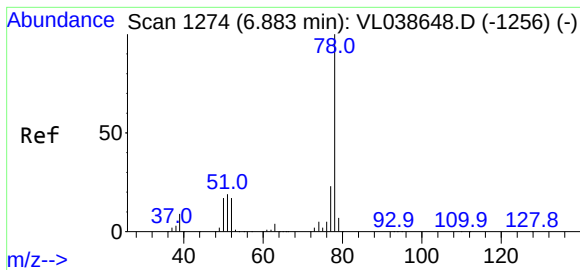
Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022



#35
Carbon Tetrachloride
Concen: 0.056 ppbv
RT: 7.008 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VL038690.D
Acq: 22 Mar 2022 19:05

Tgt Ion:117 Resp: 7269
Ion Ratio Lower Upper
117 100
119 105.0 78.1 117.1
121 38.1 25.8 38.6





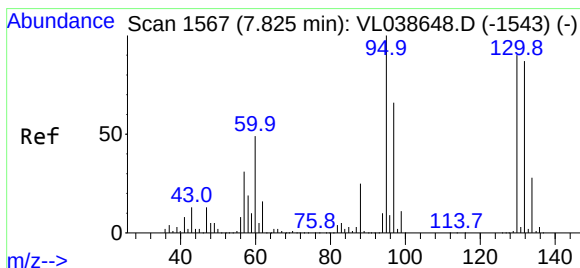
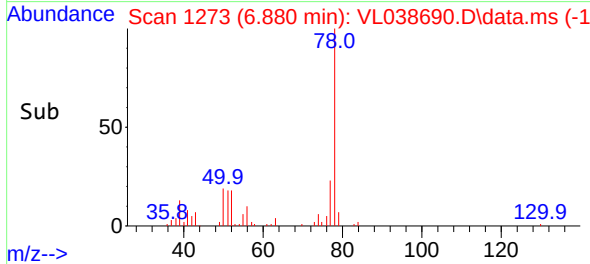
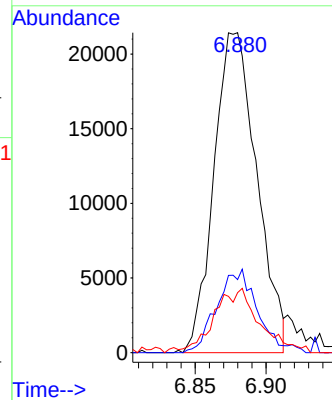
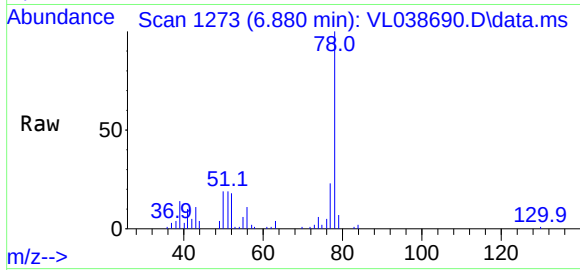
#36
Benzene
Concen: 0.261 ppbv
RT: 6.880 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL038690.D
Acq: 22 Mar 2022 19:05

Instrument :
MSVOA_L
ClientSampleId :
COP75

Tgt Ion: 78 Resp: 4509
Ion Ratio Lower Upper
78 100
77 22.9 18.1 27.1
50 17.6 13.6 20.4

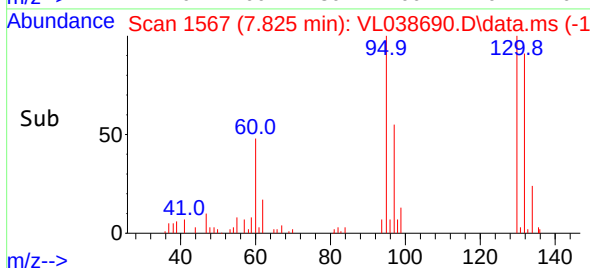
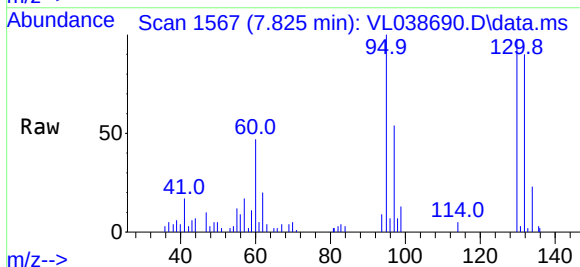
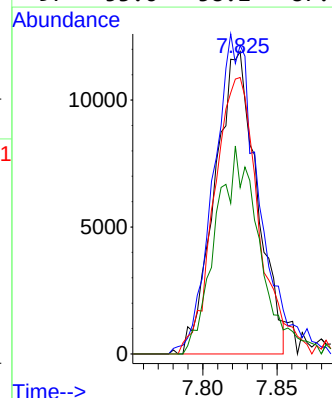
Manual Integrations
APPROVED

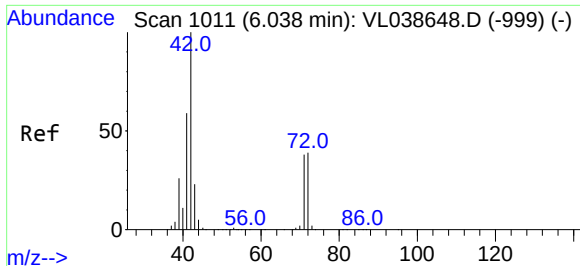
Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022



#38
Trichloroethene
Concen: 0.323 ppbv
RT: 7.825 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VL038690.D
Acq: 22 Mar 2022 19:05

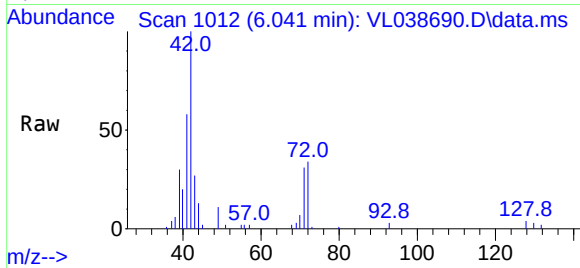
Tgt Ion:130 Resp: 23400
Ion Ratio Lower Upper
130 100
95 96.5 88.9 133.3
132 87.7 77.4 116.0
97 53.6 58.2 87.4#





#41
Tetrahydrofuran
Concen: 0.330 ppbv
RT: 6.041 min Scan# 1011
Delta R.T. 0.003 min
Lab File: VL038690.D
Acq: 22 Mar 2022 19:05

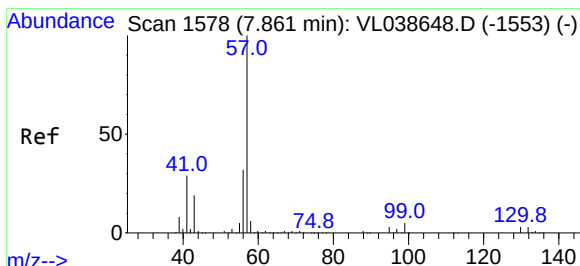
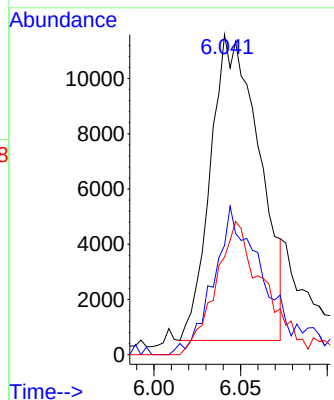
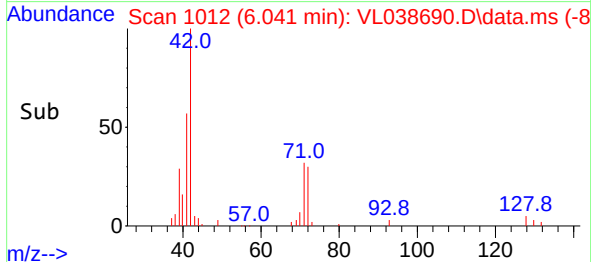
Instrument :
MSVOA_L
ClientSampleId :
COP75



Tgt Ion: 42 Resp: 21790
Ion Ratio Lower Upper
42 100
72 54.9 32.5 48.7
71 46.5 31.4 47.2

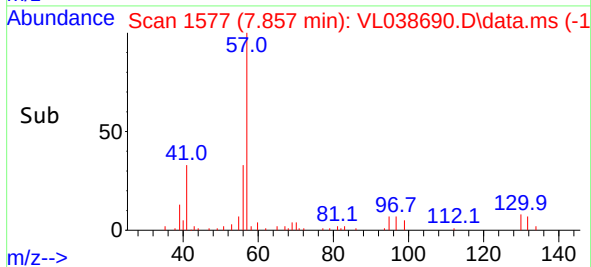
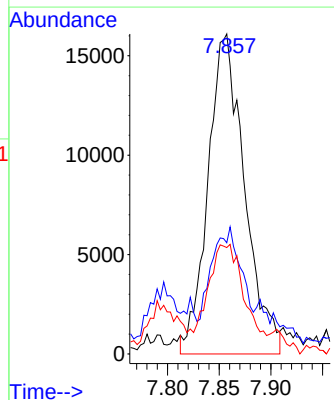
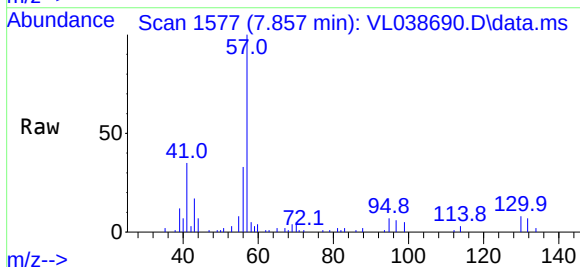
Manual Integrations
APPROVED

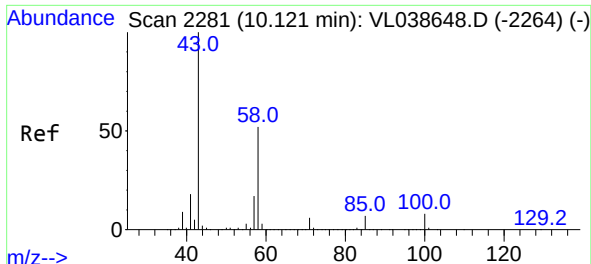
Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022



#44
2,2,4-Trimethylpentane
Concen: 0.137 ppbv m
RT: 7.857 min Scan# 1577
Delta R.T. -0.003 min
Lab File: VL038690.D
Acq: 22 Mar 2022 19:05

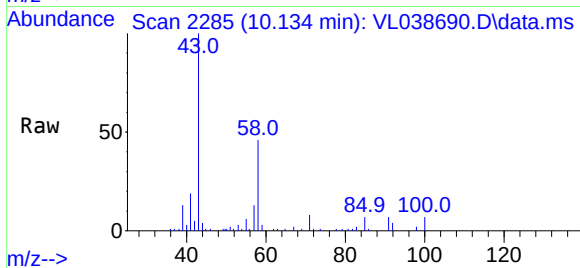
Tgt Ion: 57 Resp: 39676
Ion Ratio Lower Upper
57 100
41 44.7 23.0 34.4#
56 40.4 25.3 37.9#





#51
2-Hexanone
Concen: 0.625 ppbv m
RT: 10.134 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL038690.D
Acq: 22 Mar 2022 19:05

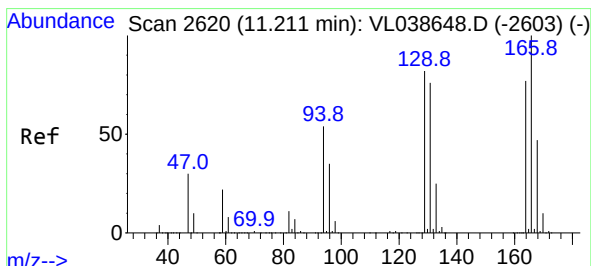
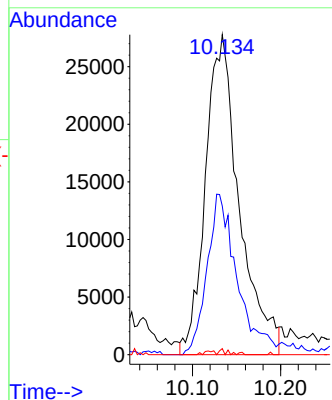
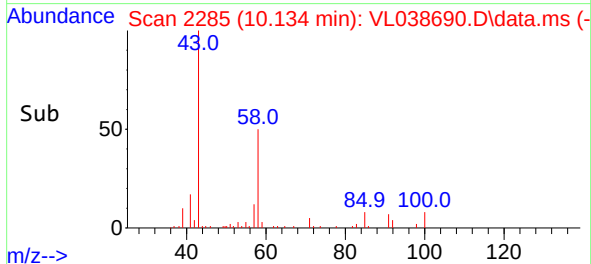
Instrument :
MSVOA_L
ClientSampleId :
COP75



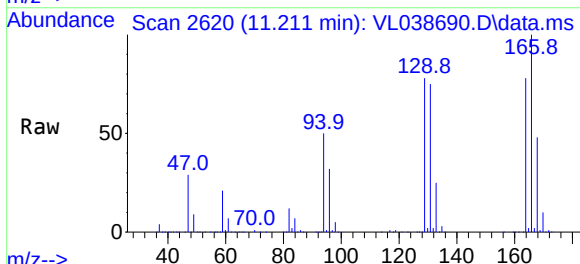
Tgt Ion: 43 Resp: 73900
Ion Ratio Lower Upper
43 100
58 47.3 41.2 61.8
98 0.0 0.2 0.4

Manual Integrations
APPROVED

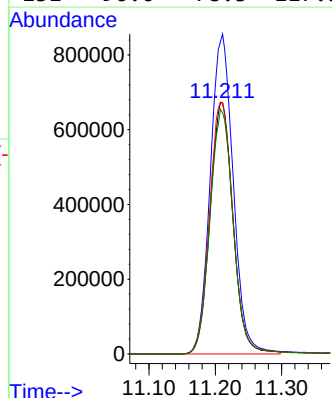
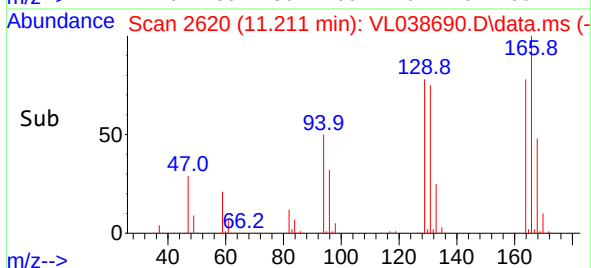
Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022

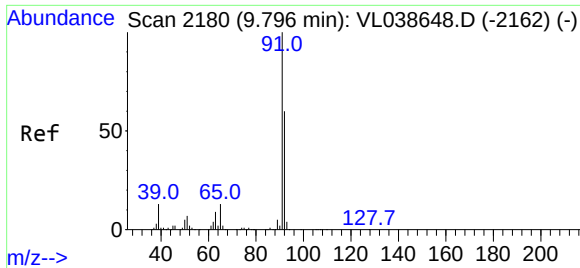


#52
Tetrachloroethene
Concen: 25.623 ppbv
RT: 11.211 min Scan# 2620
Delta R.T. -0.000 min
Lab File: VL038690.D
Acq: 22 Mar 2022 19:05



Tgt Ion:164 Resp: 1619760
Ion Ratio Lower Upper
164 100
166 127.4 103.3 154.9
129 100.0 85.2 127.8
131 96.0 78.3 117.5





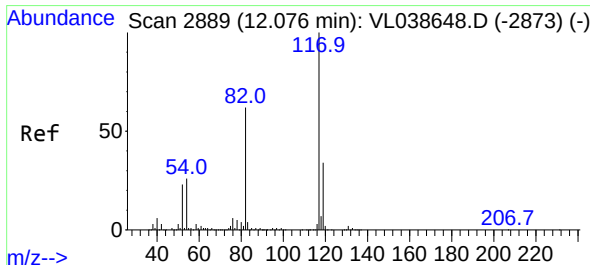
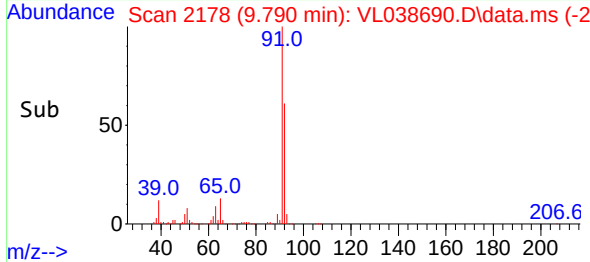
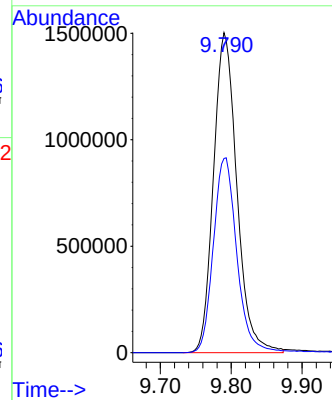
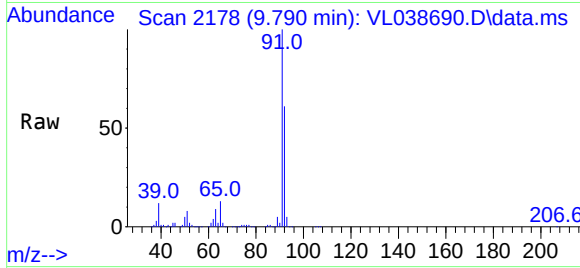
#53
Toluene
Concen: 18.523 ppbv
RT: 9.790 min Scan# 2180
Delta R.T. -0.007 min
Lab File: VL038690.D
Acq: 22 Mar 2022 19:05

Instrument :
MSVOA_L
ClientSampleId :
COP75

Tgt Ion: 91 Resp: 343811
Ion Ratio Lower Upper
91 100
92 62.0 48.7 73.1

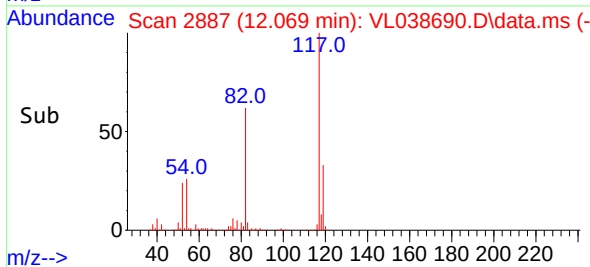
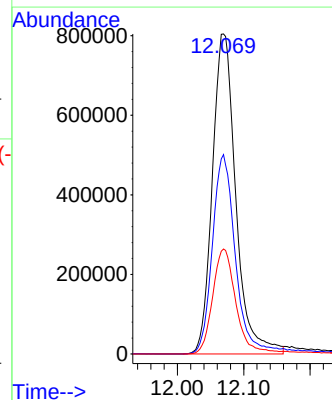
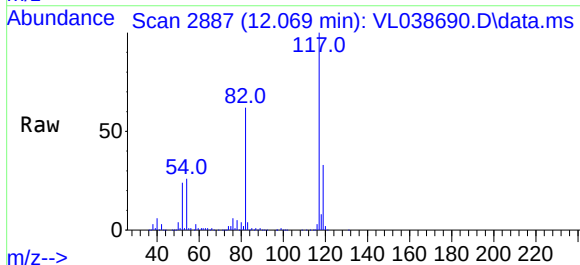
Manual Integrations
APPROVED

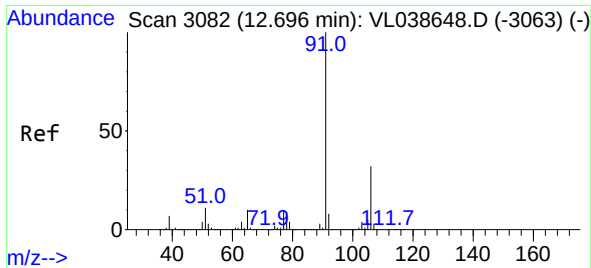
Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.069 min Scan# 2887
Delta R.T. -0.007 min
Lab File: VL038690.D
Acq: 22 Mar 2022 19:05

Tgt Ion:117 Resp: 1977975
Ion Ratio Lower Upper
117 100
82 63.4 51.6 77.4
119 33.9 26.9 40.3





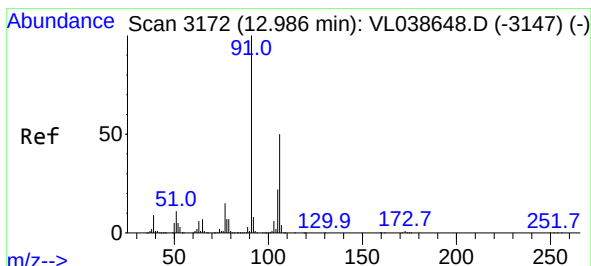
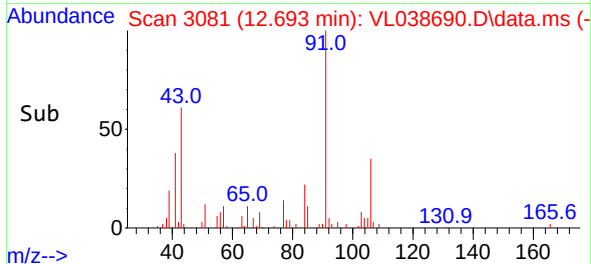
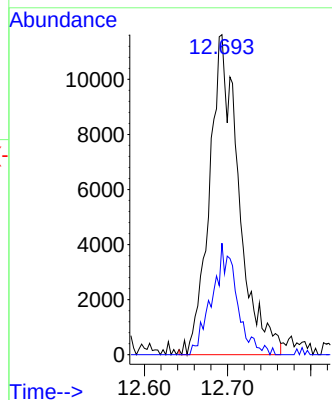
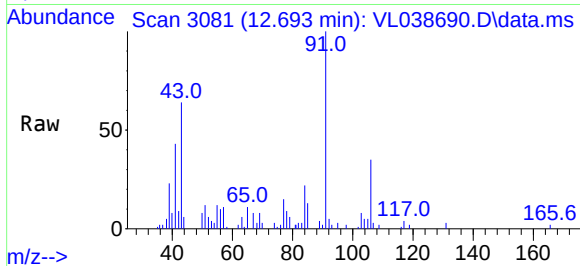
#58
Ethyl Benzene
Concen: 0.124 ppbv m
RT: 12.693 min Scan# 3082
Delta R.T. -0.003 min
Lab File: VL038690.D
Acq: 22 Mar 2022 19:05

Instrument :
MSVOA_L
ClientSampleId :
COP75

Tgt Ion: 91 Resp: 28560
Ion Ratio Lower Upper
91 100
106 34.9 25.4 38.0

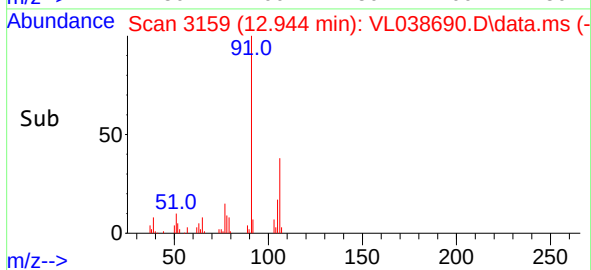
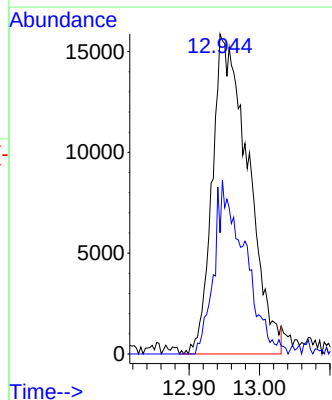
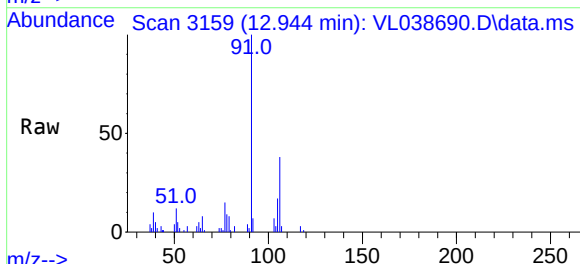
Manual Integrations
APPROVED

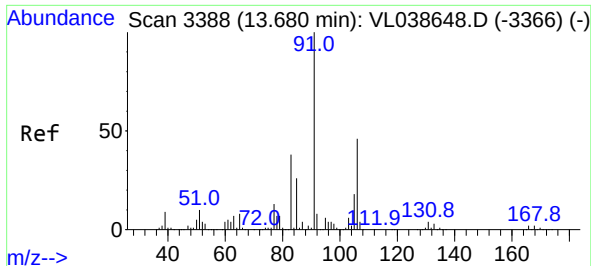
Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022



#59
m/p-Xylene
Concen: 0.278 ppbv m
RT: 12.944 min Scan# 3159
Delta R.T. -0.042 min
Lab File: VL038690.D
Acq: 22 Mar 2022 19:05

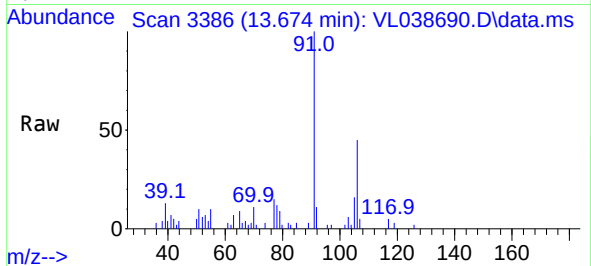
Tgt Ion: 91 Resp: 56300
Ion Ratio Lower Upper
91 100
106 0.0 37.2 55.8#





#60
o-Xylene
Concen: 0.131 ppbv
RT: 13.674 min Scan# 31
Delta R.T. -0.006 min
Lab File: VL038690.D
Acq: 22 Mar 2022 19:05

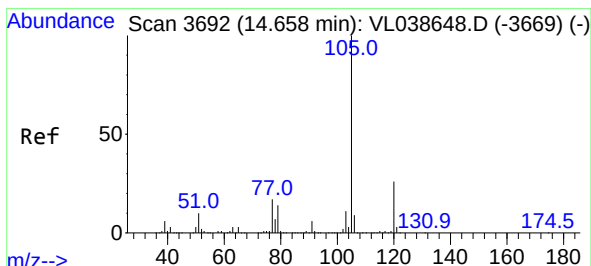
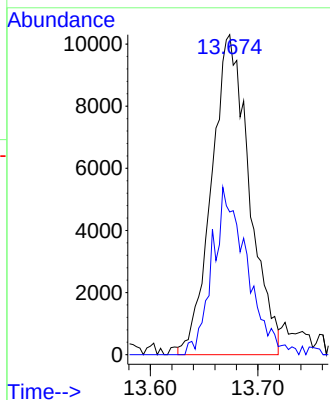
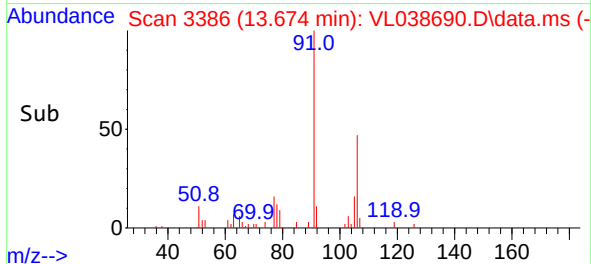
Instrument :
MSVOA_L
ClientSampleId :
COP75



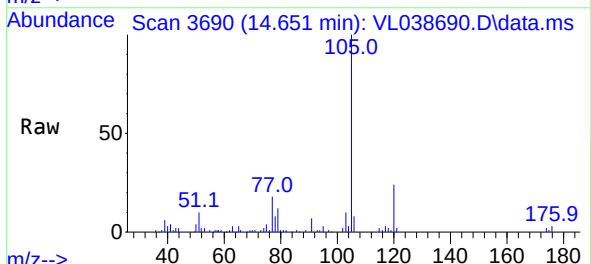
Tgt Ion: 91 Resp: 25144
Ion Ratio Lower Upper
91 100
106 48.9 23.5 70.5

Manual Integrations
APPROVED

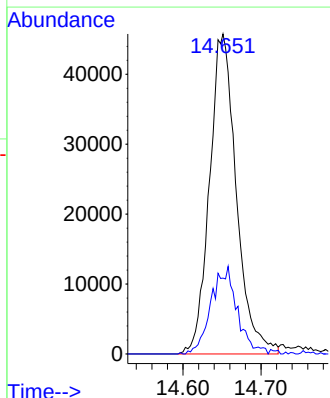
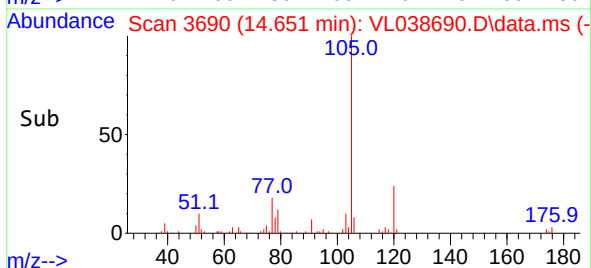
Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022

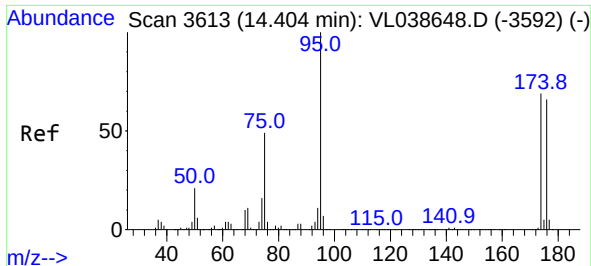


#62
Isopropylbenzene
Concen: 0.380 ppbv
RT: 14.651 min Scan# 3690
Delta R.T. -0.007 min
Lab File: VL038690.D
Acq: 22 Mar 2022 19:05



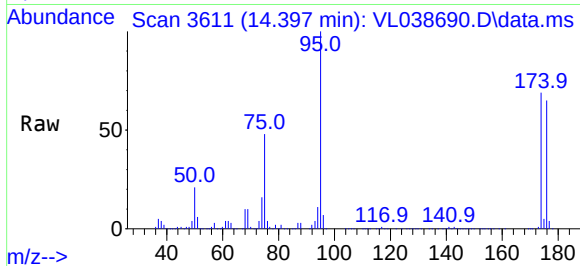
Tgt Ion:105 Resp: 109681
Ion Ratio Lower Upper
105 100
120 27.0 21.2 31.8





#68
1-Bromo-4-Fluorobenzene
Concen: 9.734 ppbv
RT: 14.397 min Scan# 30
Delta R.T. -0.007 min
Lab File: VL038690.D
Acq: 22 Mar 2022 19:05

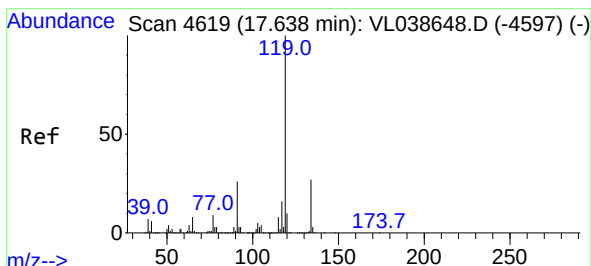
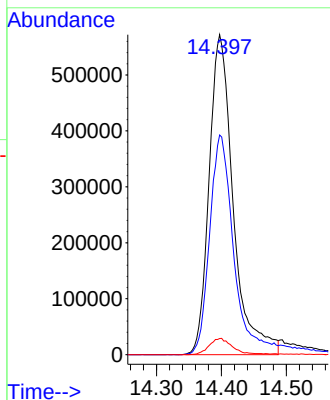
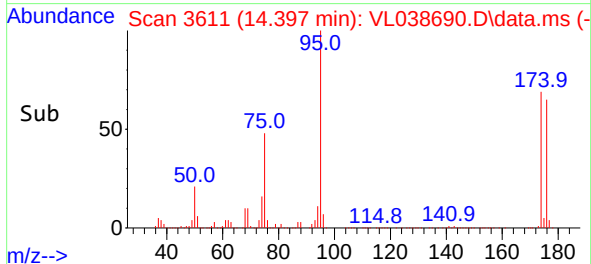
Instrument :
MSVOA_L
ClientSampleId :
COP75



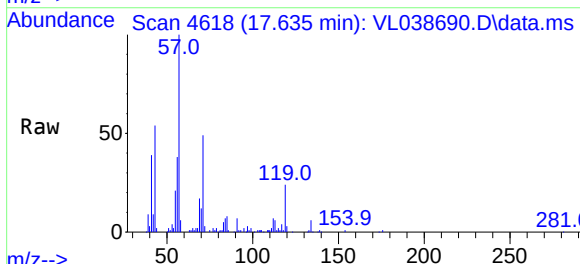
Tgt Ion: 95 Resp: 147616
Ion Ratio Lower Upper
95 100
174 72.7 56.1 84.1
175 5.1 4.2 6.2

Manual Integrations
APPROVED

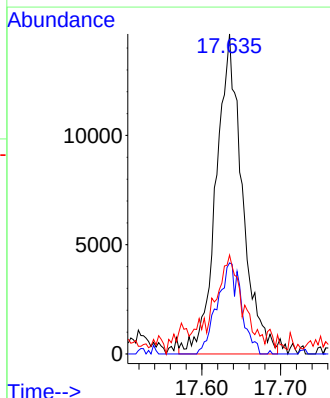
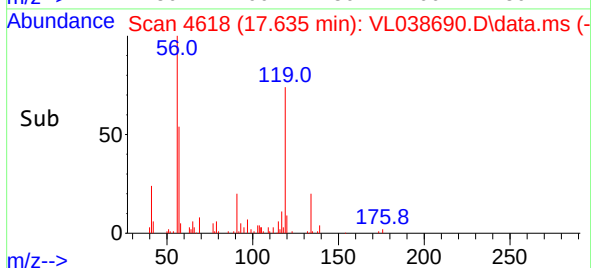
Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022

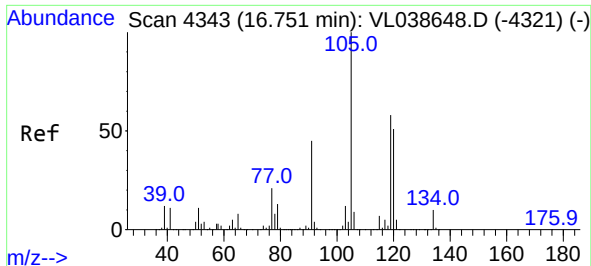


#69
p-Isopropyltoluene
Concen: 0.111 ppbv m
RT: 17.635 min Scan# 4618
Delta R.T. -0.003 min
Lab File: VL038690.D
Acq: 22 Mar 2022 19:05



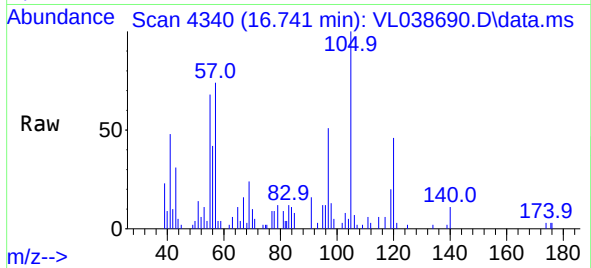
Tgt Ion:119 Resp: 33676
Ion Ratio Lower Upper
119 100
134 26.3 21.2 31.8
91 35.4 21.4 32.2#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.102 ppbv
 RT: 16.741 min Scan# 41
 Delta R.T. -0.010 min
 Lab File: VL038690.D
 Acq: 22 Mar 2022 19:05

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P75



Tgt Ion:	105	Resp:	2288
Ion	Ratio	Lower	Upper
105	100		
120	46.1	40.5	60.7
91	16.2	35.9	53.9
77	13.2	16.6	25.0

Manual Integrations
 APPROVED

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

