

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051722\
 Data File : VL039079.D
 Acq On : 17 May 2022 21:38
 Operator : SY/AP
 Sample : N2854-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 1161-8.01-SG-5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/18/2022
 Supervised By :Mahesh Dadoda 05/20/2022

Quant Time: May 18 01:54:19 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL050522AIR.M

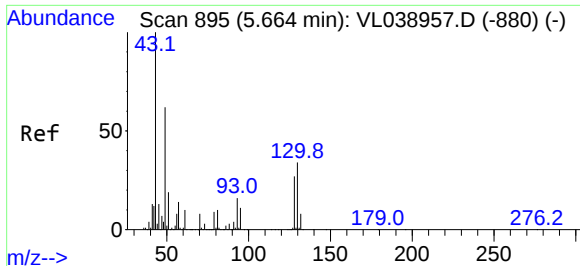
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu May 0

QLast Update : Thu May 05 10:12:15 2022

Response via : Initial Calibration

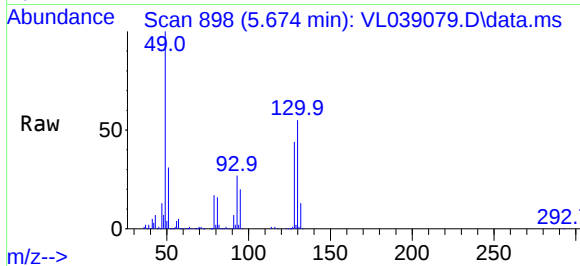
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.674	49	837662	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.179	114	1941893	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.082	117	1674530	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.416	95	1415292	10.672	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	3.057	85	39956	0.304	ppbv	95
3) Chlorodifluoromethane	2.999	51	84250	0.811	ppbv #	89
4) Chloromethane	3.150	50	28780	0.553	ppbv	89
9) Propene	3.031	41	42581	0.938	ppbv	86
10) Heptane	8.124	43	99047	0.889	ppbv	89
11) Trichlorofluoromethane	3.960	101	30266	0.269	ppbv	96
13) Ethanol	3.603	45	856607	266.661	ppbv	92
15) Acetone	3.851	43	2057414m	26.038	ppbv	
19) Isopropyl Alcohol	3.967	45	704460	18.751	ppbv #	95
20) Methylene Chloride	4.353	84	53045	1.781	ppbv	95
26) Hexane	5.693	57	142707	1.698	ppbv #	45
30) Cyclohexane	7.137	84	18818m	0.267	ppbv	
34) 2-Butanone	5.250	43	249391	2.517	ppbv	97
35) Carbon Tetrachloride	7.031	117	9668m	0.076	ppbv	
36) Benzene	6.896	78	176674	1.063	ppbv	97
41) Tetrahydrofuran	6.060	42	91684	1.377	ppbv	89
44) 2,2,4-Trimethylpentane	7.873	57	375090	1.286	ppbv #	91
50) 4-Methyl-2-Pentanone	8.758	43	62669m	0.361	ppbv	
53) Toluene	9.806	91	2320382	12.458	ppbv	100
58) Ethyl Benzene	12.706	91	540441m	2.243	ppbv	
59) m/p-Xylene	12.966	91	1776313	8.634	ppbv	99
60) o-Xylene	13.693	91	618649	3.195	ppbv	98
61) Styrene	13.526	104	11221m	0.109	ppbv	
72) 4-Ethyltoluene	15.834	105	198728	0.901	ppbv	99
73) 1,3,5-Trimethylbenzene	15.992	105	127070m	0.640	ppbv	
74) 1,2,4-Trimethylbenzene	16.757	105	495296	2.277	ppbv #	66
79) Naphthalene	22.201	128	30085m	0.170	ppbv	

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.674 min Scan# 84
Delta R.T. 0.010 min
Lab File: VL039079.D
Acq: 17 May 2022 21:38

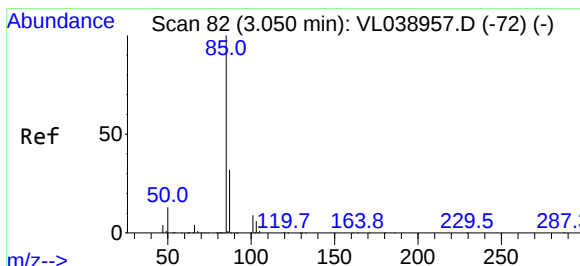
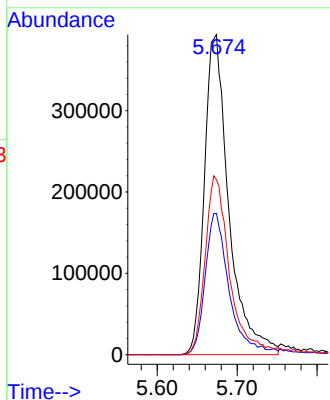
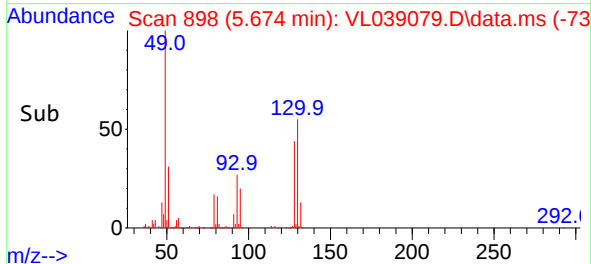
Instrument :
MSVOA_L
ClientSampleId :
1161-8.01-SG-5



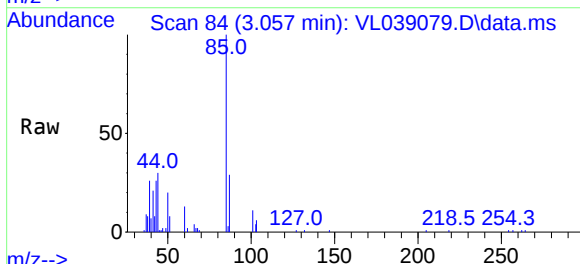
Tgt Ion: 49 Resp: 837662
Ion Ratio Lower Upper
49 100
128 45.2 23.3 69.8
130 58.4 29.8 89.3

Manual Integrations
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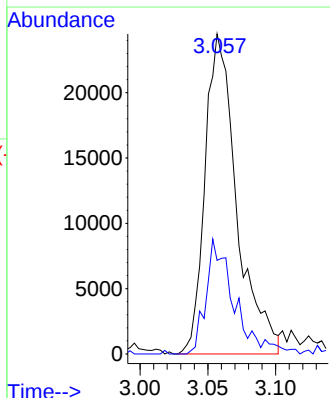
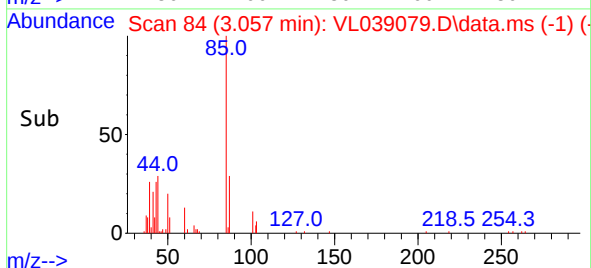
Reviewed By :Semsettin Yesilyurt 05/18/2022
Supervised By :Mahesh Dadoda 05/20/2022

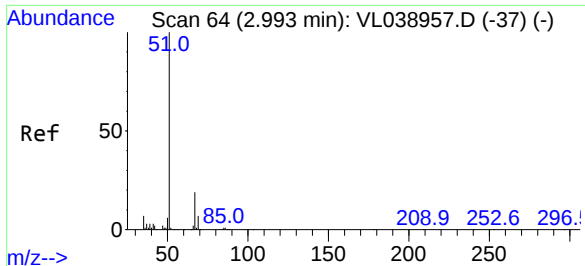


#2
Dichlorodifluoromethane
Concen: 0.304 ppbv
RT: 3.057 min Scan# 84
Delta R.T. 0.006 min
Lab File: VL039079.D
Acq: 17 May 2022 21:38



Tgt Ion: 85 Resp: 39956
Ion Ratio Lower Upper
85 100
87 29.2 25.7 38.5





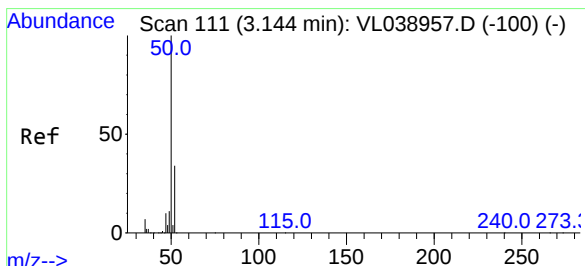
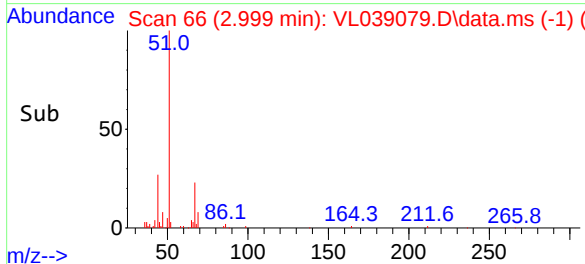
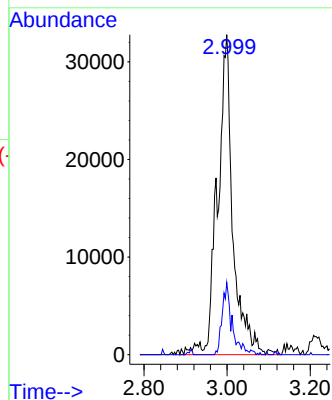
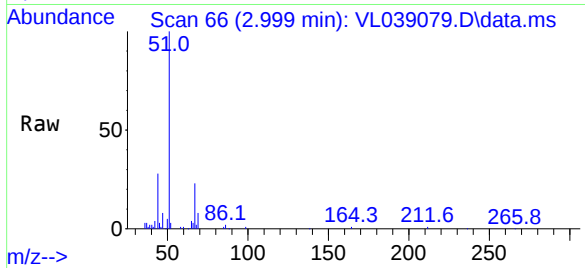
#3
Chlorodifluoromethane
Concen: 0.811 ppbv
RT: 2.999 min Scan# 60
Delta R.T. 0.006 min
Lab File: VL039079.D
Acq: 17 May 2022 21:38

Instrument :
MSVOA_L
ClientSampleId :
1161-8.01-SG-5

Tgt Ion: 51 Resp: 84250
Ion Ratio Lower Upper
51 100
67 14.7 15.8 23.8

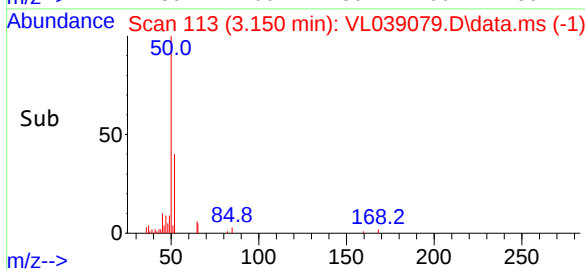
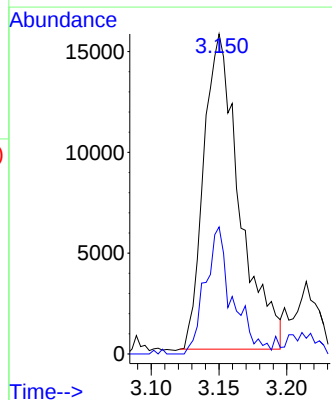
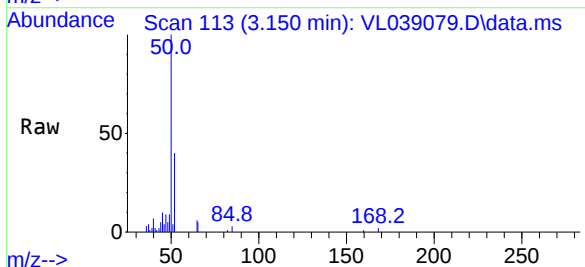
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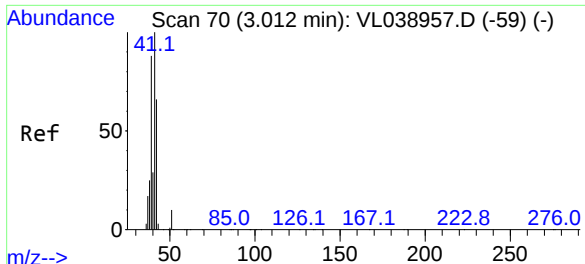
Reviewed By :Semsettin Yesilyurt 05/18/2022
Supervised By :Mahesh Dadoda 05/20/2022



#4
Chloromethane
Concen: 0.553 ppbv
RT: 3.150 min Scan# 113
Delta R.T. 0.006 min
Lab File: VL039079.D
Acq: 17 May 2022 21:38

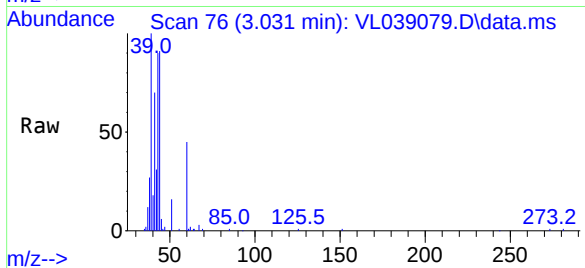
Tgt Ion: 50 Resp: 28780
Ion Ratio Lower Upper
50 100
52 40.3 27.3 40.9





#9
Propene
Concen: 0.938 ppbv
RT: 3.031 min Scan# 70
Delta R.T. 0.019 min
Lab File: VL039079.D
Acq: 17 May 2022 21:38

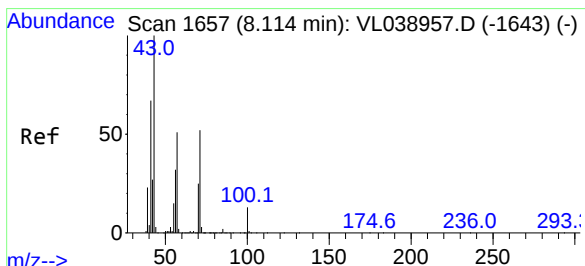
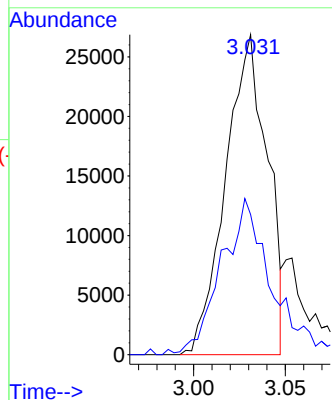
Instrument :
MSVOA_L
ClientSampleId :
1161-8.01-SG-5



Tgt Ion: 41 Resp: 4258
Ion Ratio Lower Upper
41 100
42 61.0 58.3 87.5

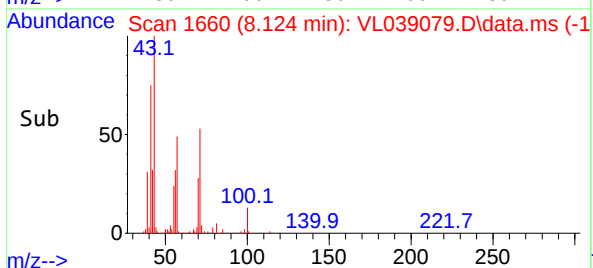
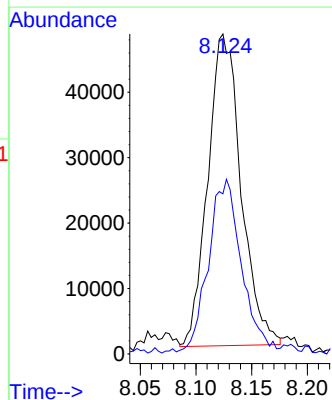
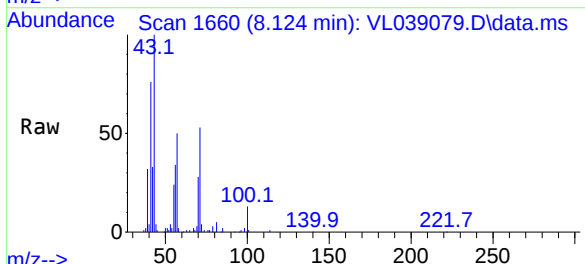
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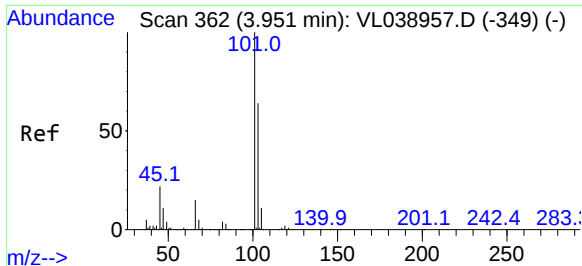
Reviewed By :Semsettin Yesilyurt 05/18/2022
Supervised By :Mahesh Dadoda 05/20/2022



#10
Heptane
Concen: 0.889 ppbv
RT: 8.124 min Scan# 1660
Delta R.T. 0.010 min
Lab File: VL039079.D
Acq: 17 May 2022 21:38

Tgt Ion: 43 Resp: 99047
Ion Ratio Lower Upper
43 100
57 58.2 40.5 60.7





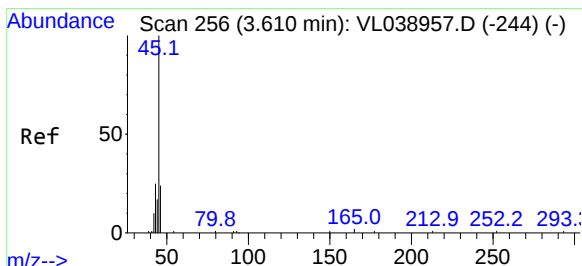
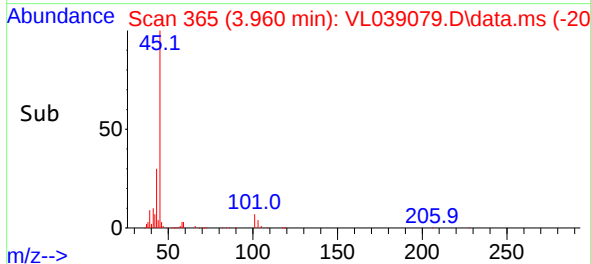
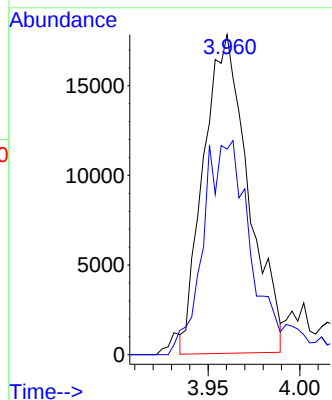
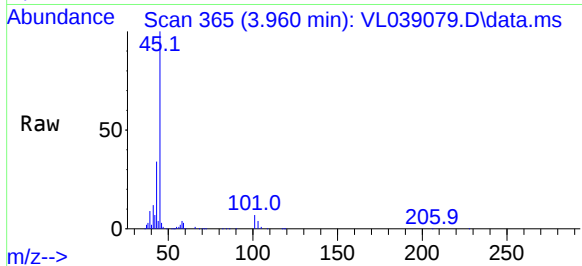
#11
Trichlorofluoromethane
Concen: 0.269 ppbv
RT: 3.960 min Scan# 30260
Delta R.T. 0.010 min
Lab File: VL039079.D
Acq: 17 May 2022 21:38

Instrument :
MSVOA_L
ClientSampleId :
1161-8.01-SG-5

Tgt Ion:101 Resp: 30260
Ion Ratio Lower Upper
101 100
103 61.0 51.5 77.3

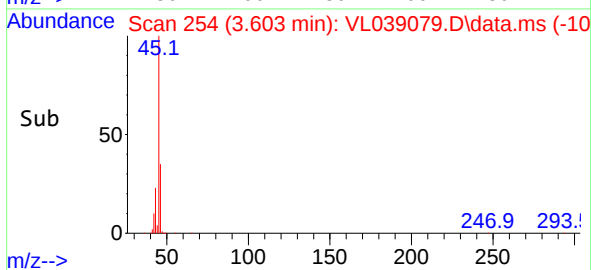
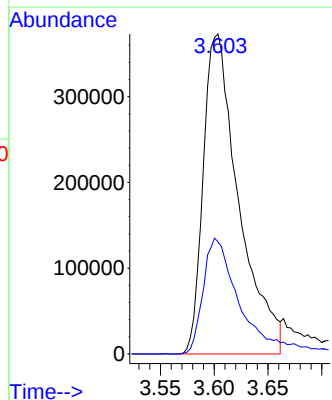
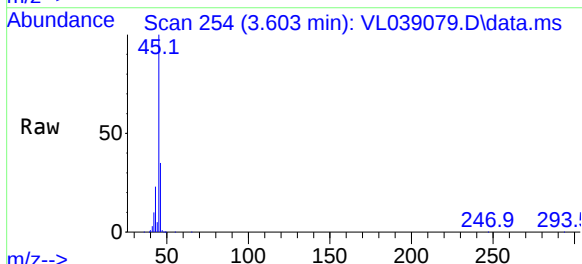
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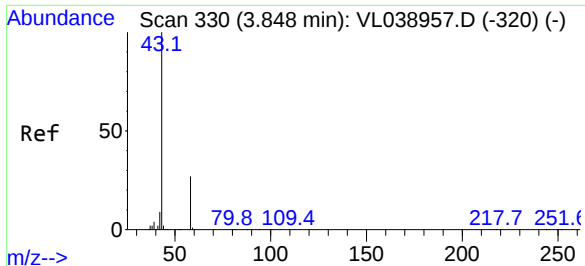
Reviewed By :Semsettin Yesilyurt 05/18/2022
Supervised By :Mahesh Dadoda 05/20/2022



#13
Ethanol
Concen: 266.661 ppbv
RT: 3.603 min Scan# 254
Delta R.T. -0.006 min
Lab File: VL039079.D
Acq: 17 May 2022 21:38

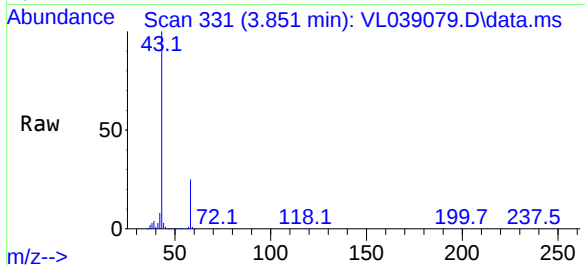
Tgt Ion: 45 Resp: 856607
Ion Ratio Lower Upper
45 100
46 40.0 18.0 72.2





#15
Acetone
Concen: 26.038 ppbv m
RT: 3.851 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL039079.D
Acq: 17 May 2022 21:38

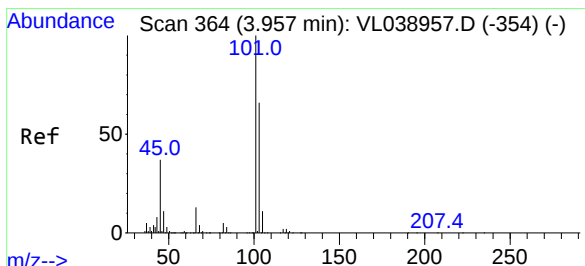
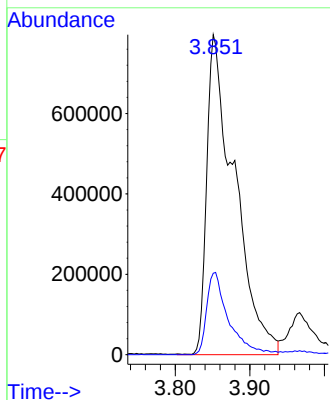
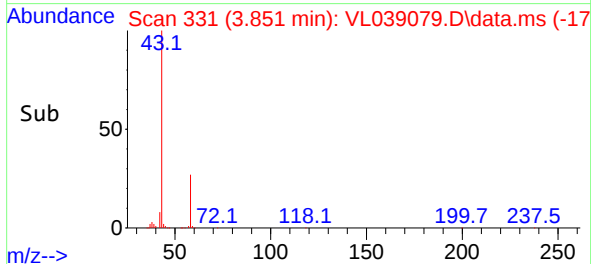
Instrument :
MSVOA_L
ClientSampleId :
1161-8.01-SG-5



Tgt Ion: 43 Resp: 2057414
Ion Ratio Lower Upper
43 100
58 20.6 21.3 31.9

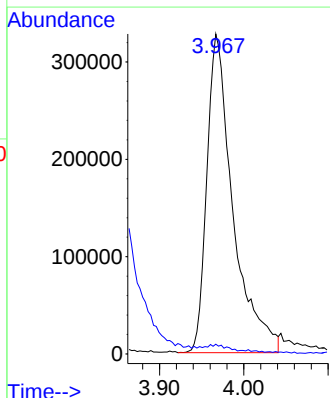
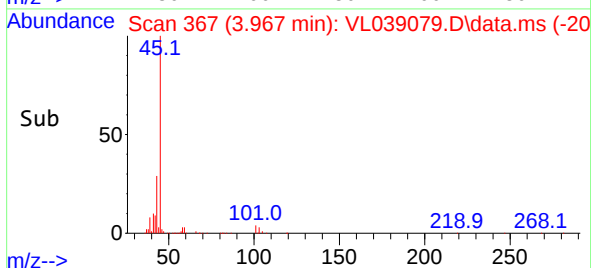
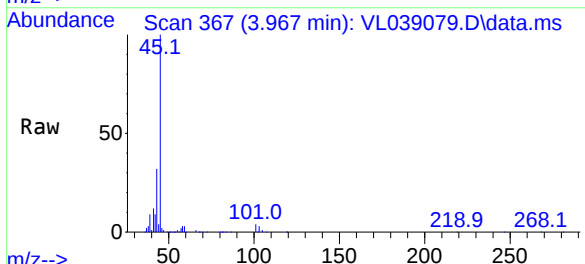
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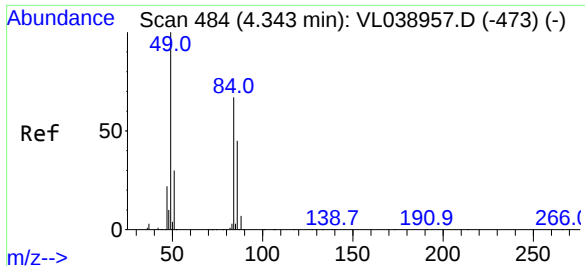
Reviewed By :Semsettin Yesilyurt 05/18/2022
Supervised By :Mahesh Dadoda 05/20/2022



#19
Isopropyl Alcohol
Concen: 18.751 ppbv
RT: 3.967 min Scan# 367
Delta R.T. 0.010 min
Lab File: VL039079.D
Acq: 17 May 2022 21:38

Tgt Ion: 45 Resp: 704460
Ion Ratio Lower Upper
45 100
58 3.7 1.4 2.2





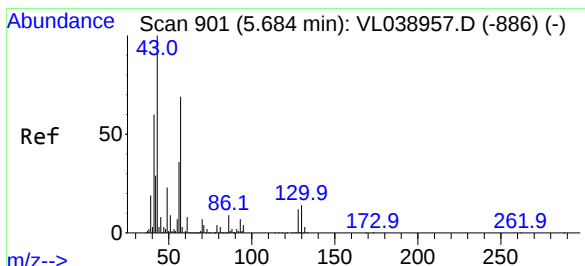
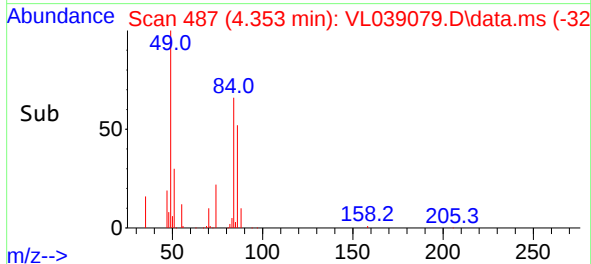
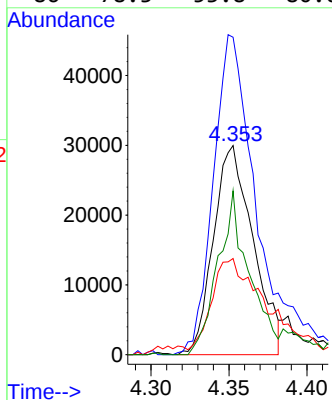
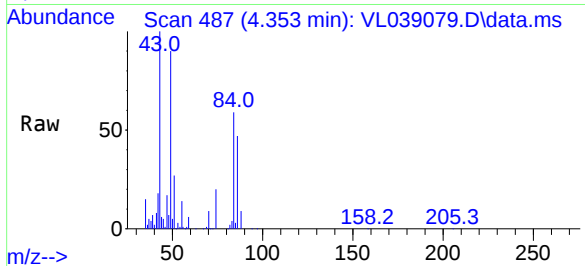
#20
Methylene Chloride
Concen: 1.781 ppbv
RT: 4.353 min Scan# 41
Delta R.T. 0.010 min
Lab File: VL039079.D
Acq: 17 May 2022 21:38

Instrument :
MSVOA_L
ClientSampleId :
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Tgt Ion:	84	Resp:	5304
Ion	Ratio	Lower	Upper
84	100		
49	150.9	119.9	179.9
51	41.9	35.7	53.5
86	78.3	53.8	80.6

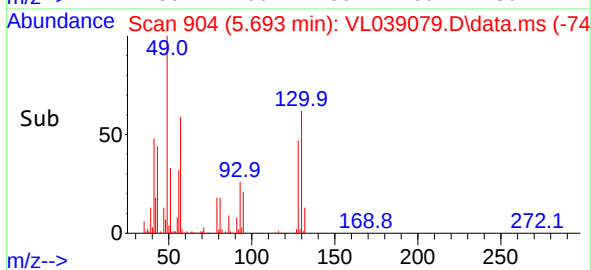
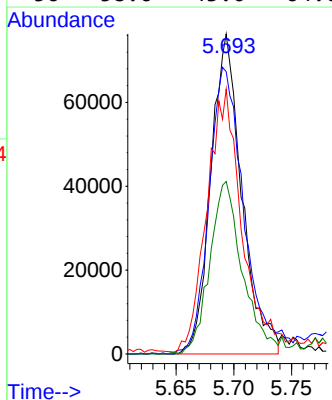
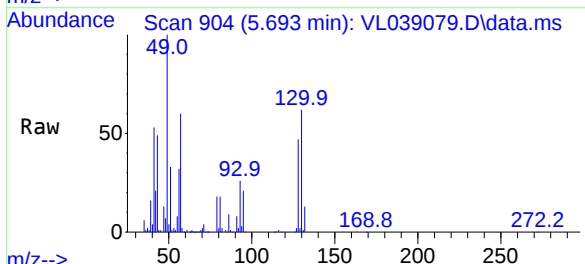
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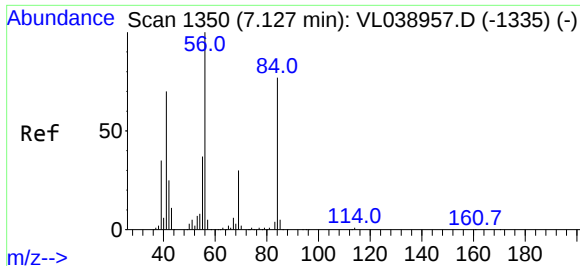
Reviewed By :Semsettin Yesilyurt 05/18/2022
Supervised By :Mahesh Dadoda 05/20/2022



#26
Hexane
Concen: 1.698 ppbv
RT: 5.693 min Scan# 904
Delta R.T. 0.010 min
Lab File: VL039079.D
Acq: 17 May 2022 21:38

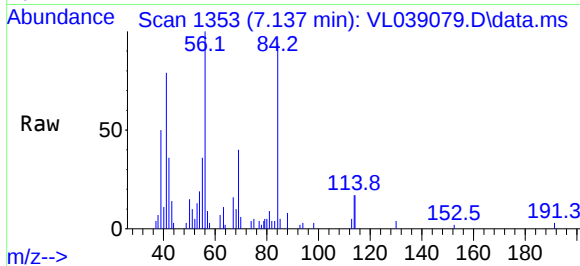
Tgt Ion:	57	Resp:	142707
Ion	Ratio	Lower	Upper
57	100		
41	101.2	75.2	112.8
43	95.9	190.8	286.2#
56	58.6	43.0	64.6





#30
Cyclohexane
Concen: 0.267 ppbv m
RT: 7.137 min Scan# 1161
Delta R.T. 0.010 min
Lab File: VL039079.D
Acq: 17 May 2022 21:38

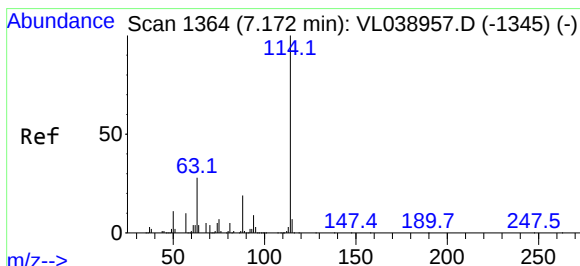
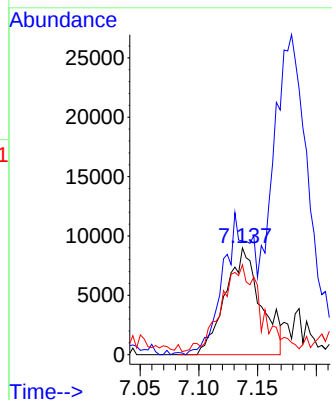
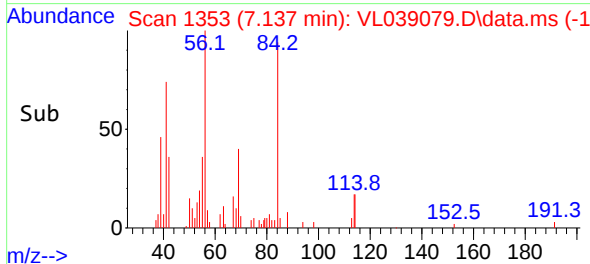
Instrument :
MSVOA_L
ClientSampleId :
1161-8.01-SG-5



Tgt Ion: 84 Resp: 18818
Ion Ratio Lower Upper
84 100
56 0.0 115.3 172.9
41 89.5 72.0 108.0

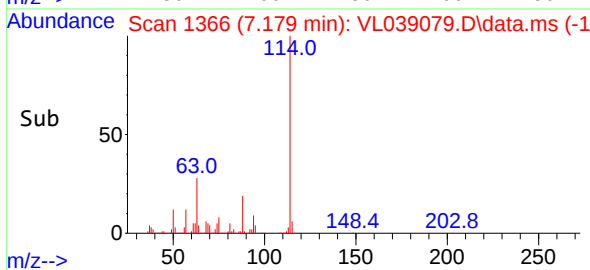
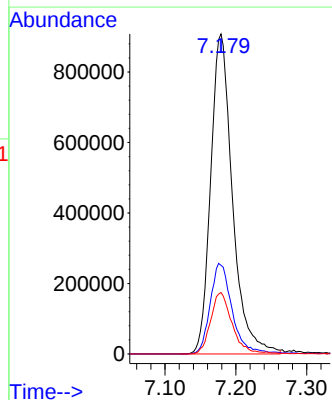
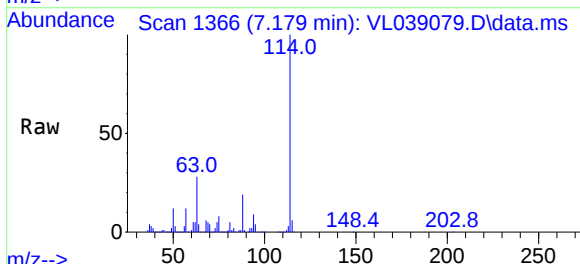
Manual Integrations
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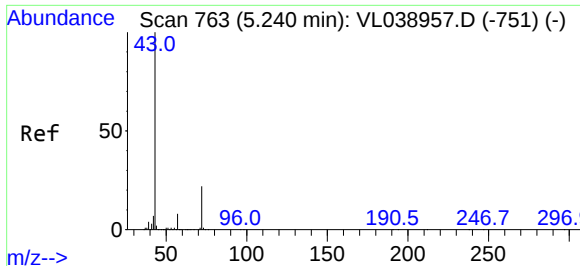
Reviewed By :Semsettin Yesilyurt 05/18/2022
Supervised By :Mahesh Dadoda 05/20/2022



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.179 min Scan# 1366
Delta R.T. 0.006 min
Lab File: VL039079.D
Acq: 17 May 2022 21:38

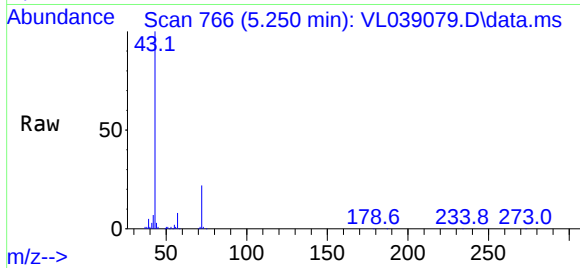
Tgt Ion:114 Resp: 1941893
Ion Ratio Lower Upper
114 100
63 28.8 22.6 33.8
88 19.1 15.4 23.0





#34
2-Butanone
Concen: 2.517 ppbv
RT: 5.250 min Scan# 70
Delta R.T. 0.010 min
Lab File: VL039079.D
Acq: 17 May 2022 21:38

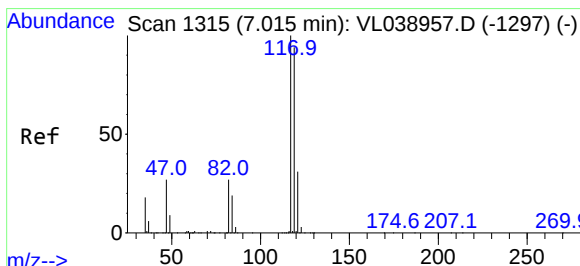
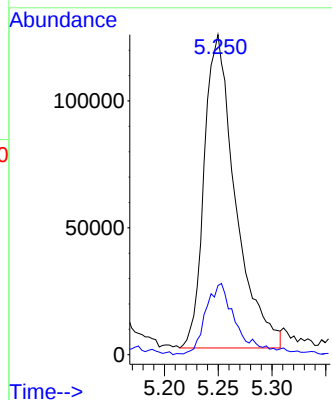
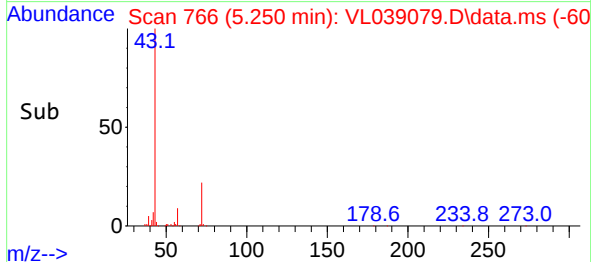
Instrument :
MSVOA_L
ClientSampleId :
1161-8.01-SG-5



Tgt Ion: 43 Resp: 24939
Ion Ratio Lower Upper
43 100
72 23.4 17.8 26.6

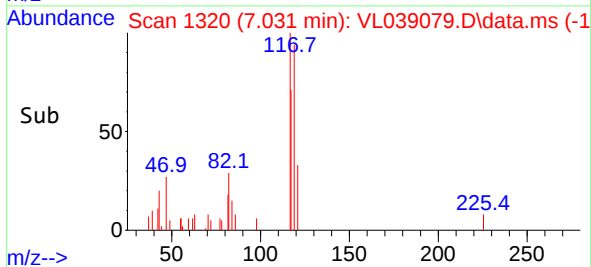
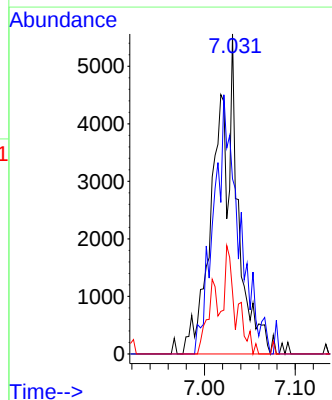
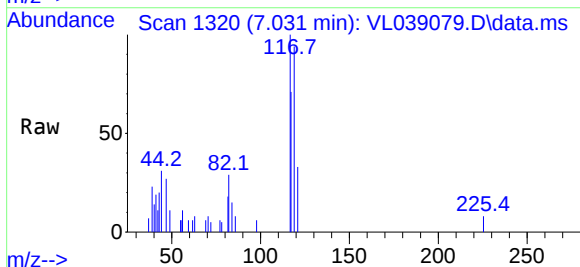
Manual Integrations
APPROVED

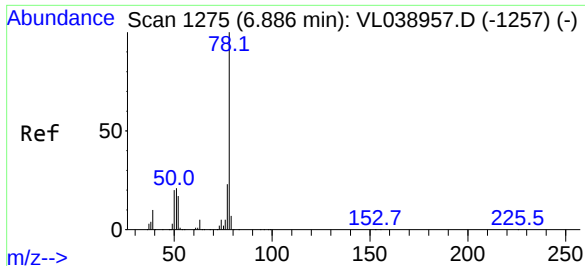
Reviewed By :Semsettin Yesilyurt 05/18/2022
Supervised By :Mahesh Dadoda 05/20/2022



#35
Carbon Tetrachloride
Concen: 0.076 ppbv m
RT: 7.031 min Scan# 1320
Delta R.T. 0.016 min
Lab File: VL039079.D
Acq: 17 May 2022 21:38

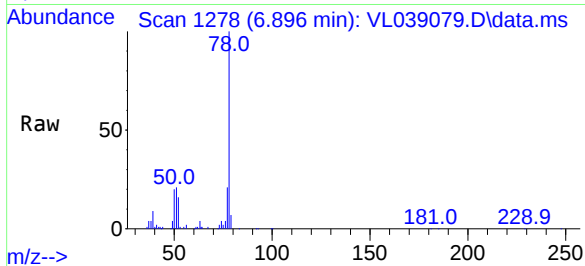
Tgt Ion:117 Resp: 9668
Ion Ratio Lower Upper
117 100
119 93.5 75.2 112.8
121 33.1 24.6 37.0





#36
Benzene
Concen: 1.063 ppbv
RT: 6.896 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL039079.D
Acq: 17 May 2022 21:38

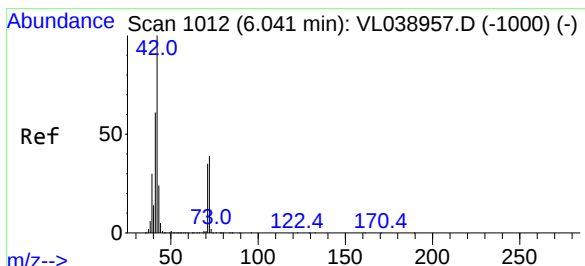
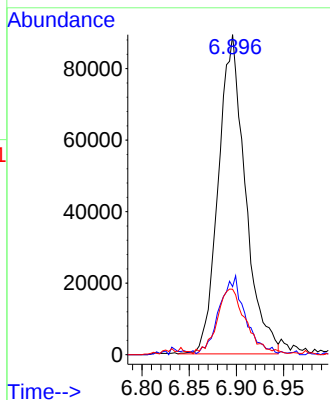
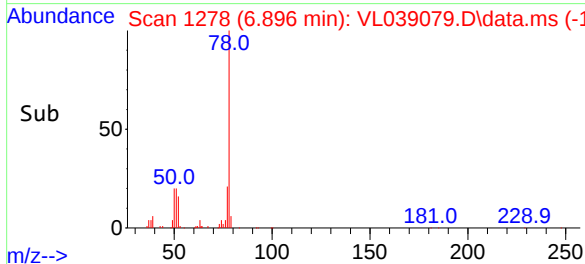
Instrument :
MSVOA_L
ClientSampleId :
1161-8.01-SG-5



Tgt Ion: 78 Resp: 176674
Ion Ratio Lower Upper
78 100
77 20.8 18.6 28.0
50 19.5 15.6 23.4

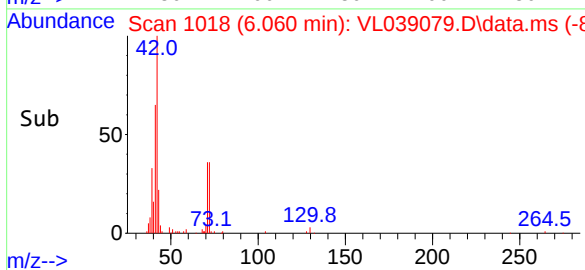
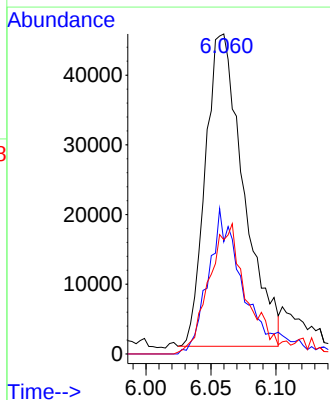
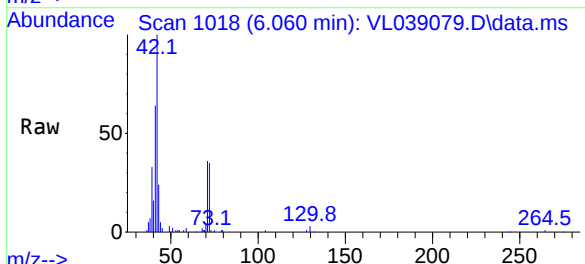
Manual Integrations
APPROVED

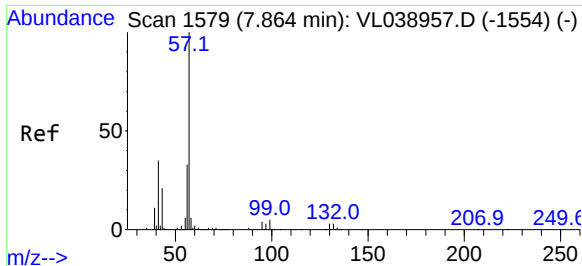
Reviewed By :Semsettin Yesilyurt 05/18/2022
Supervised By :Mahesh Dadoda 05/20/2022



#41
Tetrahydrofuran
Concen: 1.377 ppbv
RT: 6.060 min Scan# 1018
Delta R.T. 0.019 min
Lab File: VL039079.D
Acq: 17 May 2022 21:38

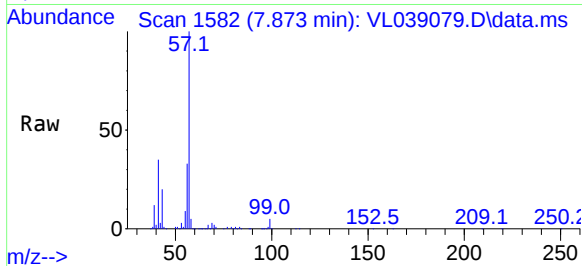
Tgt Ion: 42 Resp: 91684
Ion Ratio Lower Upper
42 100
72 45.7 31.8 47.6
71 45.0 30.6 45.8





#44
2,2,4-Trimethylpentane
Concen: 1.286 ppbv
RT: 7.873 min Scan# 1161
Delta R.T. 0.010 min
Lab File: VL039079.D
Acq: 17 May 2022 21:38

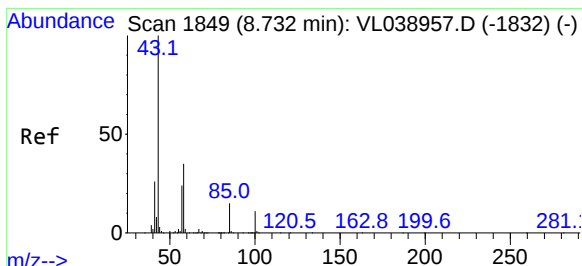
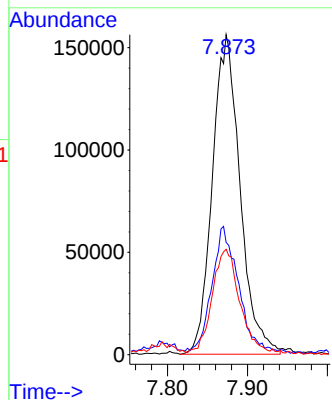
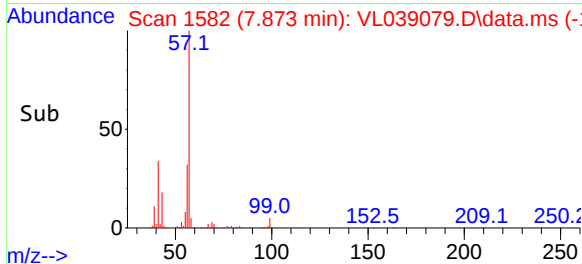
Instrument :
MSVOA_L
ClientSampleId :
1161-8.01-SG-5



Tgt Ion: 57 Resp: 375090
Ion Ratio Lower Upper
57 100
41 39.6 26.3 39.5
56 33.5 24.6 37.0

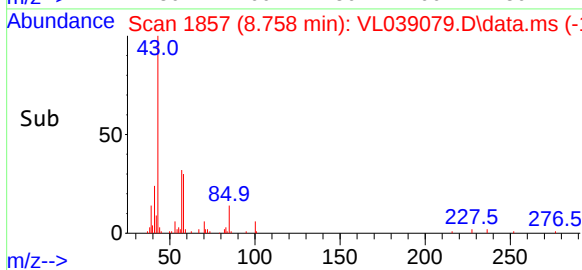
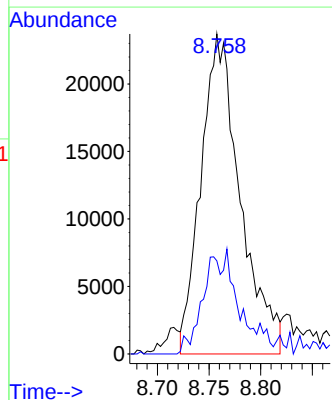
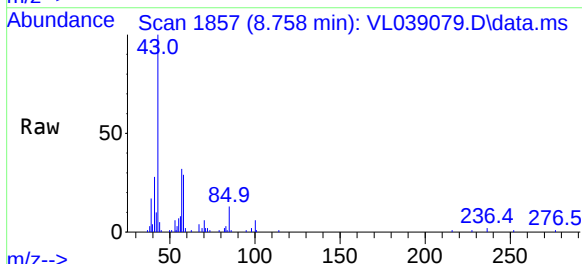
Manual Integrations
APPROVED

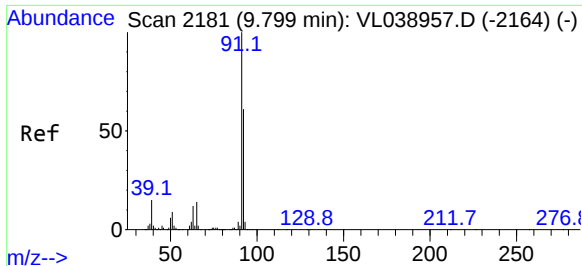
Reviewed By :Semsettin Yesilyurt 05/18/2022
Supervised By :Mahesh Dadoda 05/20/2022



#50
4-Methyl-2-Pentanone
Concen: 0.361 ppbv m
RT: 8.758 min Scan# 1857
Delta R.T. 0.026 min
Lab File: VL039079.D
Acq: 17 May 2022 21:38

Tgt Ion: 43 Resp: 62669
Ion Ratio Lower Upper
43 100
58 0.0 28.4 42.6





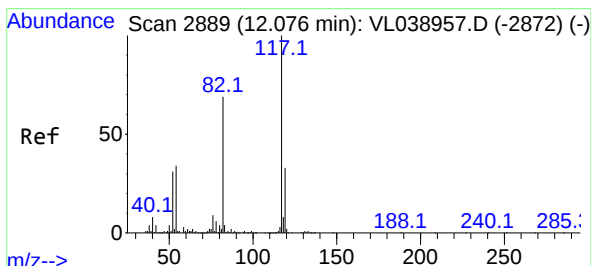
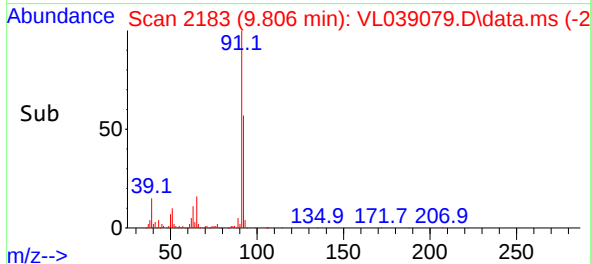
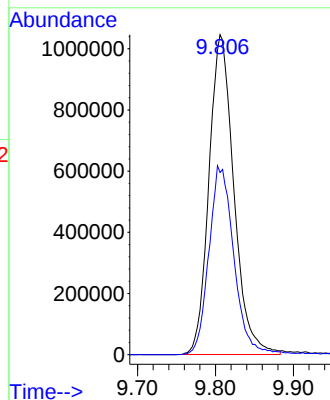
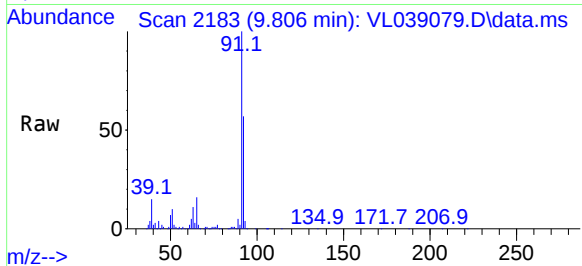
#53
Toluene
Concen: 12.458 ppbv
RT: 9.806 min Scan# 2181
Delta R.T. 0.006 min
Lab File: VL039079.D
Acq: 17 May 2022 21:38

Instrument :
MSVOA_L
ClientSampleId :
1161-8.01-SG-5

Tgt Ion: 91 Resp: 232038
Ion Ratio Lower Upper
91 100
92 60.0 48.2 72.2

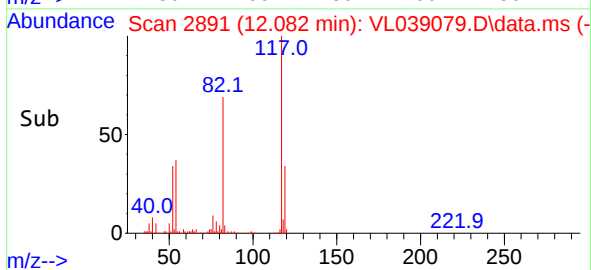
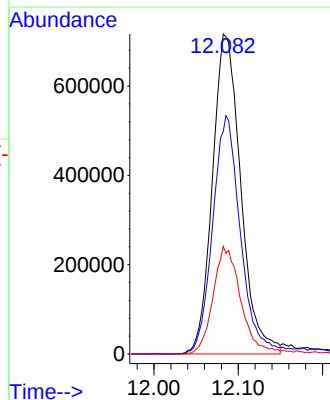
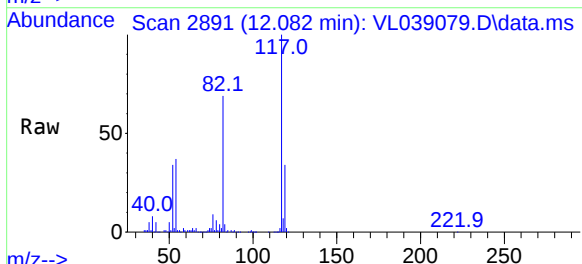
Manual Integrations
APPROVED

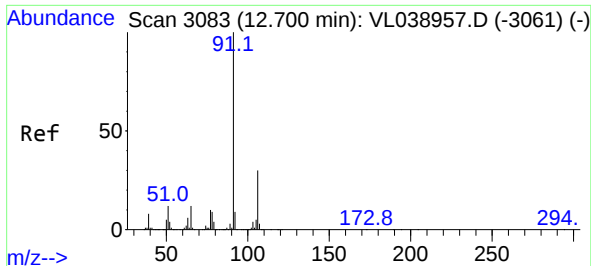
Reviewed By :Semsettin Yesilyurt 05/18/2022
Supervised By :Mahesh Dadoda 05/20/2022



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.082 min Scan# 2891
Delta R.T. 0.006 min
Lab File: VL039079.D
Acq: 17 May 2022 21:38

Tgt Ion:117 Resp: 1674530
Ion Ratio Lower Upper
117 100
82 73.2 57.0 85.6
119 33.8 27.2 40.8





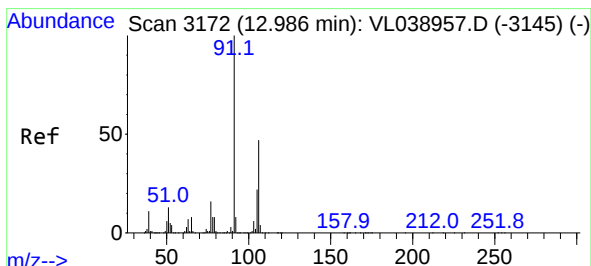
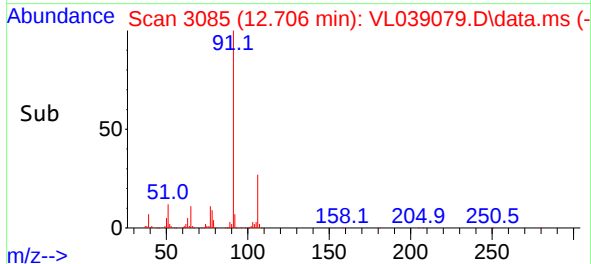
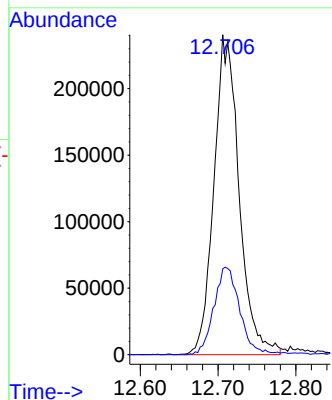
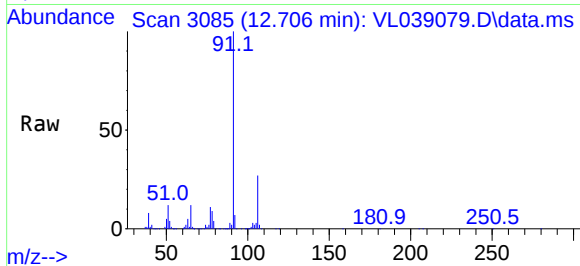
#58
Ethyl Benzene
Concen: 2.243 ppbv m
RT: 12.706 min Scan# 3083
Delta R.T. 0.006 min
Lab File: VL039079.D
Acq: 17 May 2022 21:38

Instrument :
MSVOA_L
ClientSampleId :
1161-8.01-SG-5

Tgt Ion: 91 Resp: 54044
Ion Ratio Lower Upper
91 100
106 26.8 24.2 36.4

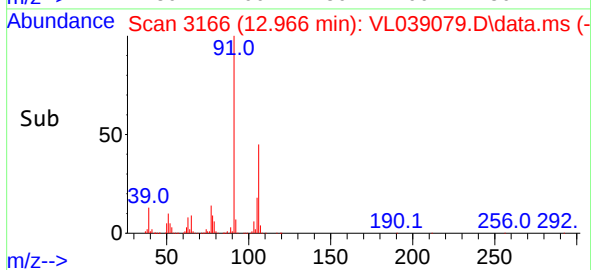
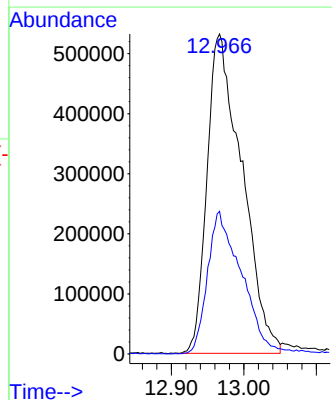
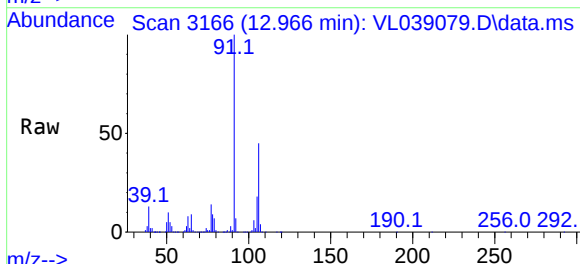
Manual Integrations
APPROVED

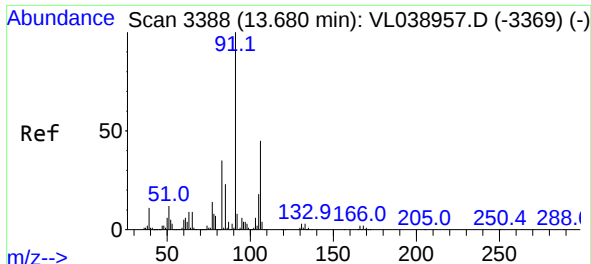
Reviewed By :Semsettin Yesilyurt 05/18/2022
Supervised By :Mahesh Dadoda 05/20/2022



#59
m/p-Xylene
Concen: 8.634 ppbv
RT: 12.966 min Scan# 3166
Delta R.T. -0.019 min
Lab File: VL039079.D
Acq: 17 May 2022 21:38

Tgt Ion: 91 Resp: 1776313
Ion Ratio Lower Upper
91 100
106 44.1 34.6 52.0





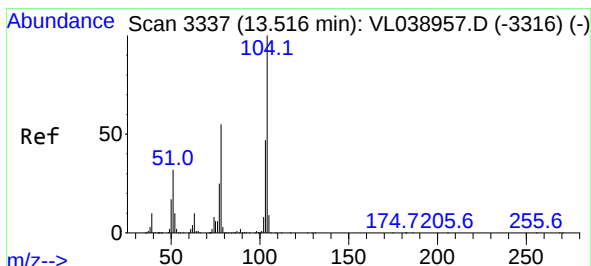
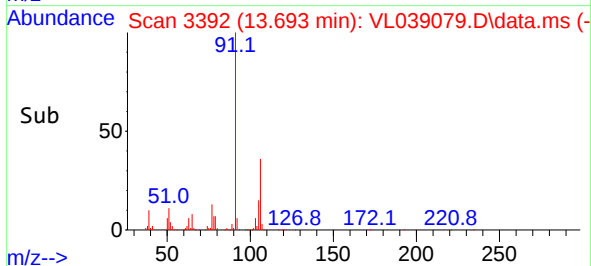
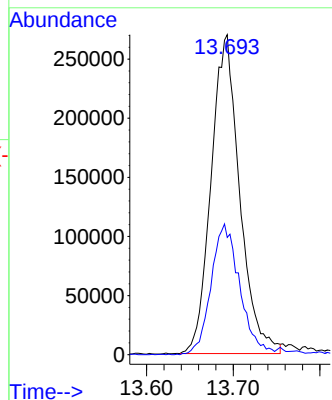
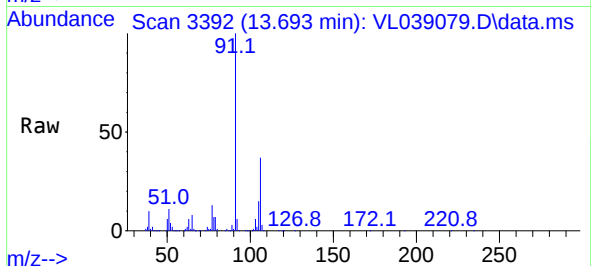
#60
o-Xylene
Concen: 3.195 ppbv
RT: 13.693 min Scan# 3392
Delta R.T. 0.013 min
Lab File: VL039079.D
Acq: 17 May 2022 21:38

Instrument :
MSVOA_L
ClientSampleId :
1161-8.01-SG-5

Tgt Ion: 91 Resp: 618649
Ion Ratio Lower Upper
91 100
106 43.1 22.2 66.6

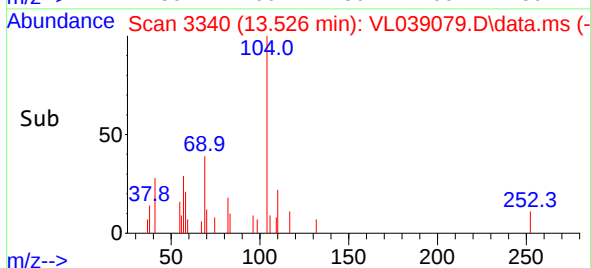
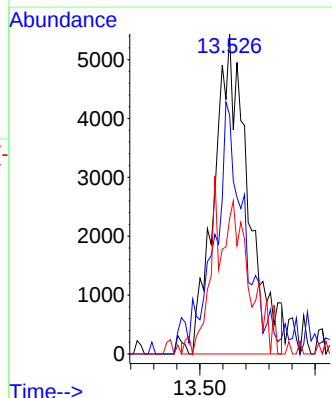
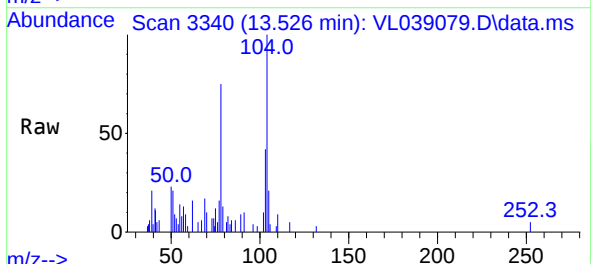
Manual Integrations
APPROVED

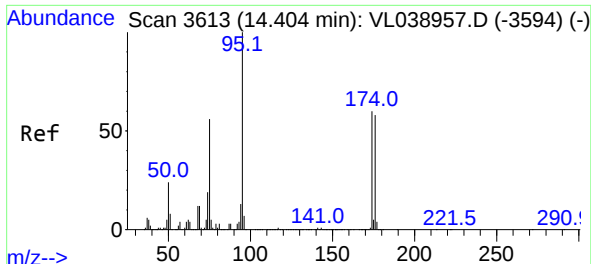
Reviewed By :Semsettin Yesilyurt 05/18/2022
Supervised By :Mahesh Dadoda 05/20/2022



#61
Styrene
Concen: 0.109 ppbv m
RT: 13.526 min Scan# 3340
Delta R.T. 0.010 min
Lab File: VL039079.D
Acq: 17 May 2022 21:38

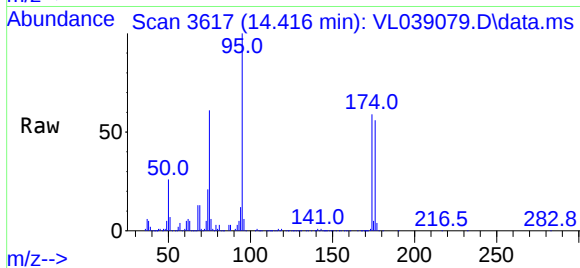
Tgt Ion:104 Resp: 11221
Ion Ratio Lower Upper
104 100
78 70.1 46.4 69.6#
103 51.9 39.3 58.9





#68
1-Bromo-4-Fluorobenzene
Concen: 10.672 ppbv
RT: 14.416 min Scan# 30
Delta R.T. 0.013 min
Lab File: VL039079.D
Acq: 17 May 2022 21:38

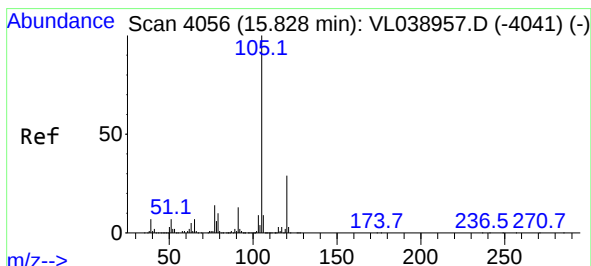
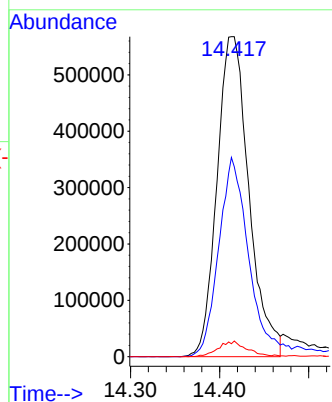
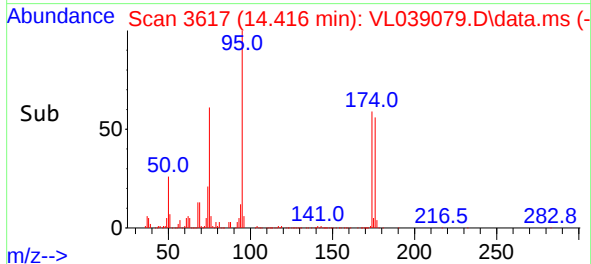
Instrument :
MSVOA_L
ClientSampleId :
1161-8.01-SG-5



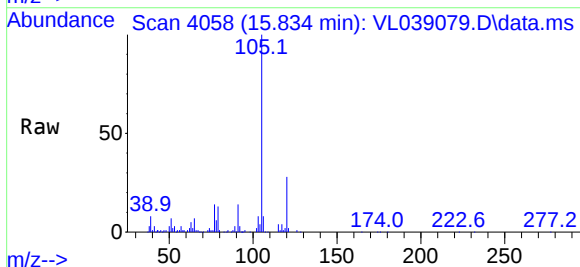
Tgt Ion: 95 Resp: 1415292
Ion Ratio Lower Upper
95 100
174 63.3 50.8 76.2
175 4.7 3.8 5.6

Manual Integrations
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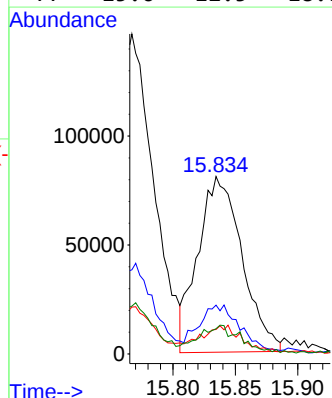
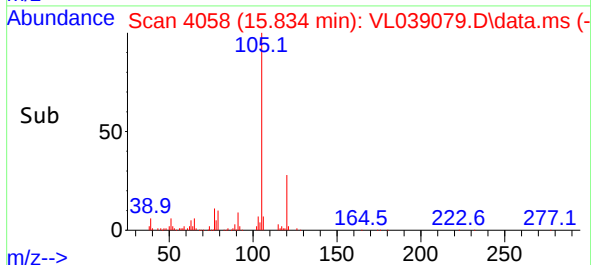
Reviewed By :Semsettin Yesilyurt 05/18/2022
Supervised By :Mahesh Dadoda 05/20/2022

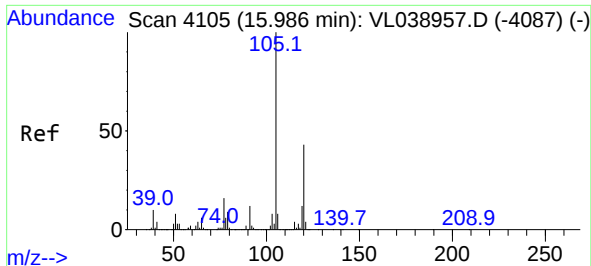


#72
4-Ethyltoluene
Concen: 0.901 ppbv
RT: 15.834 min Scan# 4058
Delta R.T. 0.006 min
Lab File: VL039079.D
Acq: 17 May 2022 21:38



Tgt Ion:105 Resp: 198728
Ion Ratio Lower Upper
105 100
120 29.0 23.4 35.0
91 15.4 10.6 16.0
77 15.6 12.5 18.7





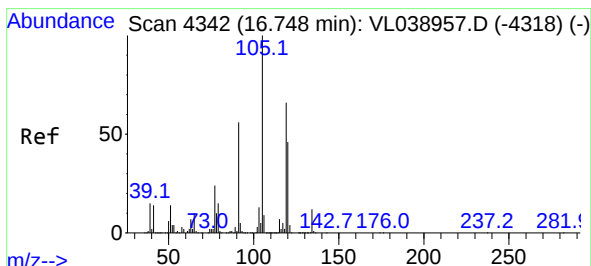
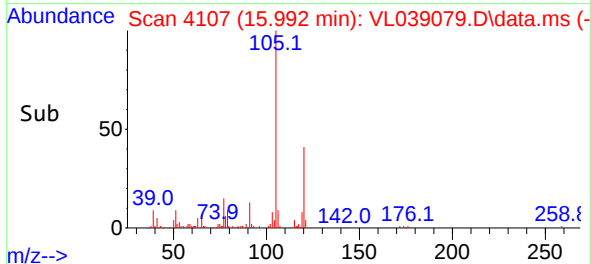
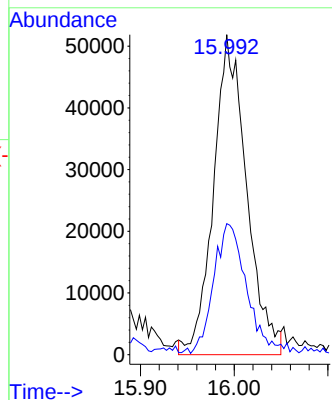
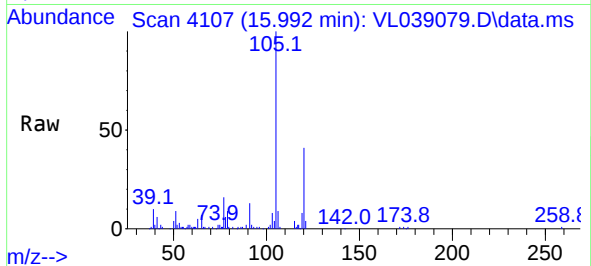
#73
1,3,5-Trimethylbenzene
Concen: 0.640 ppbv m
RT: 15.992 min Scan# 4107
Delta R.T. 0.006 min
Lab File: VL039079.D
Acq: 17 May 2022 21:38

Instrument :
MSVOA_L
ClientSampleId :
1161-8.01-SG-5

Tgt Ion:105 Resp: 127070
Ion Ratio Lower Upper
105 100
120 41.0 34.4 51.6

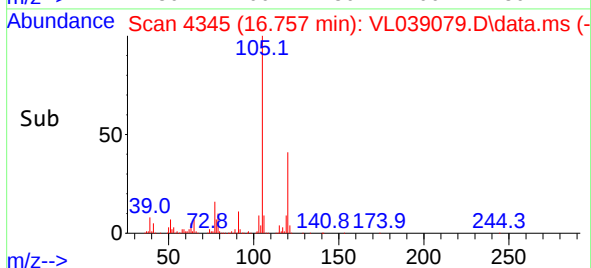
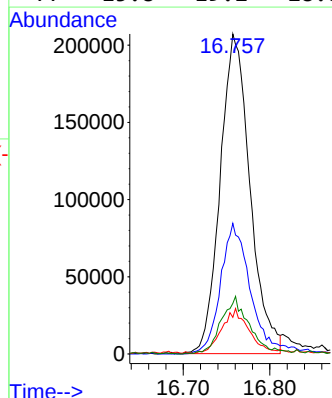
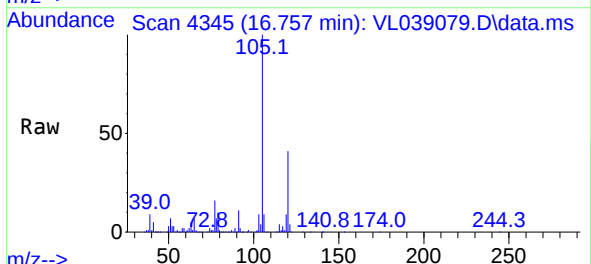
Manual Integrations
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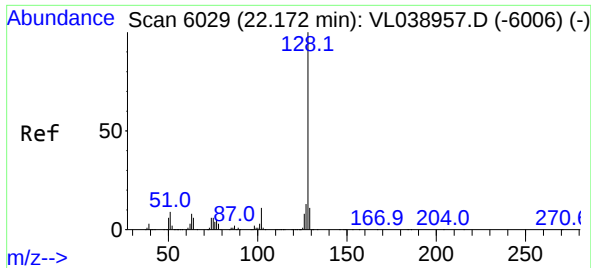
Reviewed By :Semsettin Yesilyurt 05/18/2022
Supervised By :Mahesh Dadoda 05/20/2022



#74
1,2,4-Trimethylbenzene
Concen: 2.277 ppbv
RT: 16.757 min Scan# 4345
Delta R.T. 0.010 min
Lab File: VL039079.D
Acq: 17 May 2022 21:38

Tgt Ion:105 Resp: 495296
Ion Ratio Lower Upper
105 100
120 40.8 36.9 55.3
91 11.1 45.0 67.4#
77 15.8 19.2 28.8#





#79

Naphthalene

Concen: 0.170 ppbv m

RT: 22.201 min Scan# 60

Delta R.T. 0.029 min

Lab File: VL039079.D

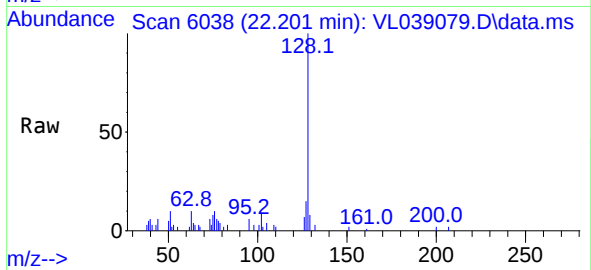
Acq: 17 May 2022 21:38

Instrument :

MSVOA_L

ClientSampleId :

1161-8.01-SG-5



Tgt Ion:	128	Resp:	3008
Ion	Ratio	Lower	Upper
128	100		
127	15.0	10.2	15.2
129	8.1	8.9	13.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/18/2022
Supervised By :Mahesh Dadoda 05/20/2022

