

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL060122\
 Data File : VL039147.D
 Acq On : 1 Jun 2022 14:27
 Operator : SY/AP
 Sample : N3106-05DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 06/06/2022
 Supervised By : Mahesh Dadoda 06/06/2022

Quant Time: Jun 02 00:39:03 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL053122AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jun 01 01:22:18 2022

QLast Update : Wed Jun 01 01:22:18 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.671	49	1111909	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.179	114	2683179	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.082	117	2329389	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.410	95	2041107	10.599	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.000%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.057	85	48560	0.249	ppbv	96
4) Chloromethane	3.150	50	45549m	0.627	ppbv	
9) Propene	3.034	41	672030m	10.894	ppbv	
10) Heptane	8.124	43	25827m	0.179	ppbv	
11) Trichlorofluoromethane	3.954	101	42292	0.239	ppbv	86
13) Ethanol	3.604	45	2563754	762.054	ppbv #	100
15) Acetone	3.851	43	2995985	25.866	ppbv	99
19) Isopropyl Alcohol	3.967	45	4418962	81.343	ppbv	99
20) Methylene Chloride	4.350	84	566371	11.603	ppbv	93
25) Ethyl Acetate	5.684	43	700143	2.682	ppbv #	94
29) Chloroform	5.758	83	29100m	0.151	ppbv	
30) Cyclohexane	7.137	84	73232m	0.760	ppbv	
34) 2-Butanone	5.247	43	444604	3.050	ppbv	95
35) Carbon Tetrachloride	7.021	117	13561	0.069	ppbv #	84
36) Benzene	6.893	78	211136	0.969	ppbv	95
37) 1,2-Dichloroethane	6.311	62	872383	6.085	ppbv	99
41) Tetrahydrofuran	6.050	42	238857m	2.724	ppbv	
44) 2,2,4-Trimethylpentane	7.870	57	55178m	0.145	ppbv	
52) Tetrachloroethene	11.217	164	4893m	0.058	ppbv	
53) Toluene	9.806	91	752732	3.001	ppbv	98
58) Ethyl Benzene	12.706	91	85564m	0.267	ppbv	
59) m/p-Xylene	12.967	91	281839	0.997	ppbv	98
60) o-Xylene	13.687	91	97836	0.368	ppbv	99
72) 4-Ethyltoluene	15.835	105	31477m	0.101	ppbv	
73) 1,3,5-Trimethylbenzene	15.992	105	32286m	0.115	ppbv	
74) 1,2,4-Trimethylbenzene	16.751	105	96466m	0.308	ppbv	
76) 1,4-Dichlorobenzene	17.134	146	536795	3.035	ppbv	98

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

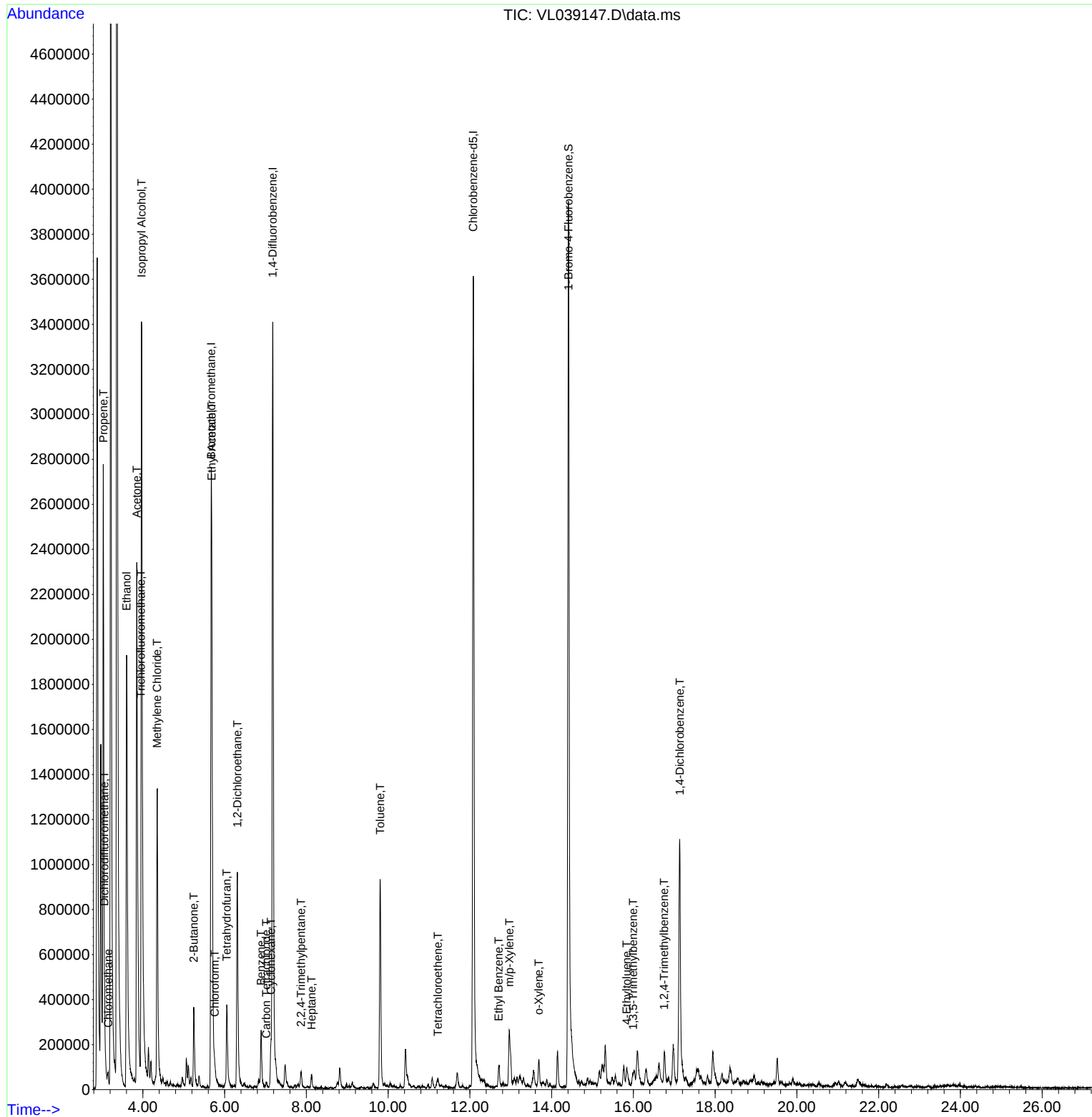
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL060122\
Data File : VL039147.D
Acq On : 1 Jun 2022 14:27
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Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

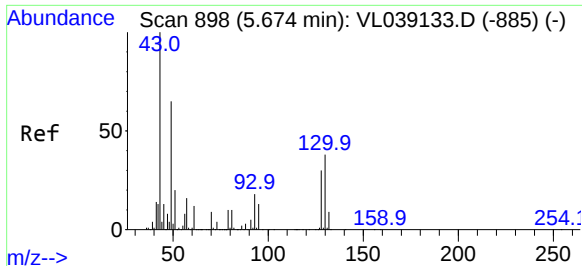
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Quant Time: Jun 02 00:39:03 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL053122AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun
QLast Update : Wed Jun 01 01:22:18 2022
Response via : Initial Calibration

Manual Integrations
APPROVED

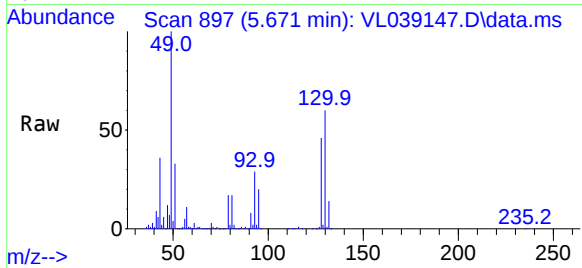
Reviewed By :Semsettin Yesilyurt 06/06/2022
Supervised By :Mahesh Dadoda 06/06/2022





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.671 min Scan# 89
Delta R.T. -0.003 min
Lab File: VL039147.D
Acq: 1 Jun 2022 14:27

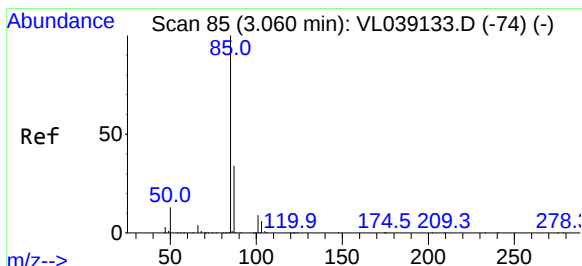
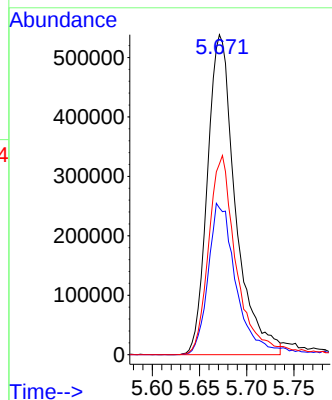
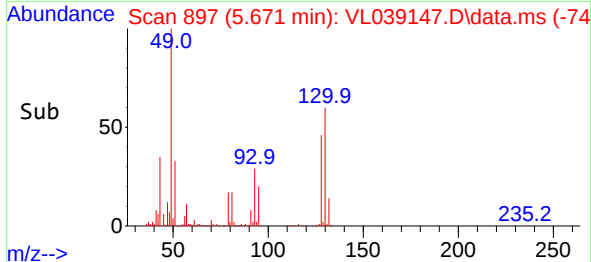
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 49 Resp: 1111909
Ion Ratio Lower Upper
49 100
128 49.2 24.7 74.1
130 62.7 31.4 94.0

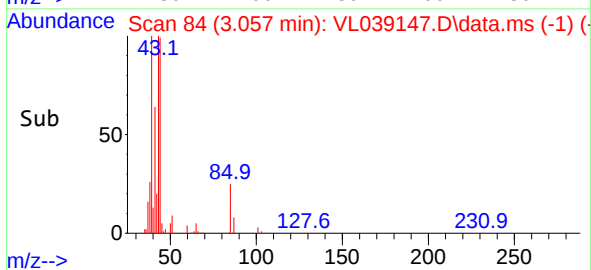
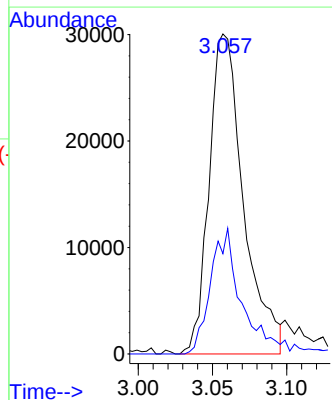
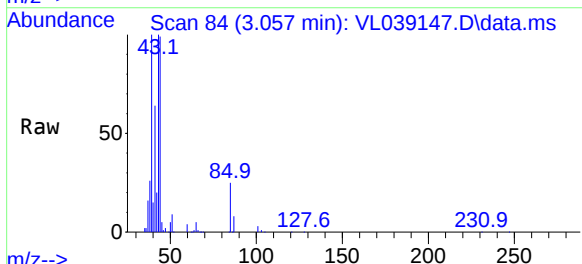
Manual Integrations
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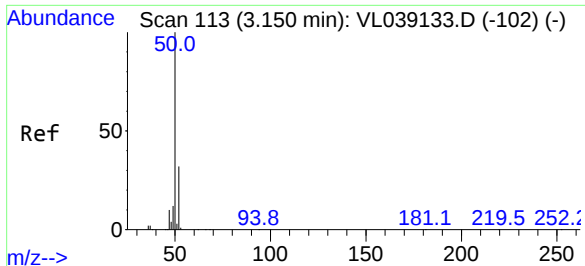
Reviewed By :Semsettin Yesilyurt 06/06/2022
Supervised By :Mahesh Dadoda 06/06/2022



#2
Dichlorodifluoromethane
Concen: 0.249 ppbv
RT: 3.057 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL039147.D
Acq: 1 Jun 2022 14:27

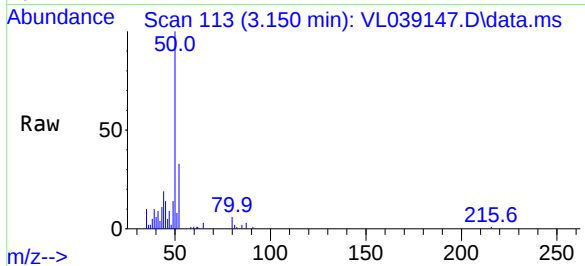
Tgt Ion: 85 Resp: 48560
Ion Ratio Lower Upper
85 100
87 31.3 26.9 40.3





#4
Chloromethane
Concen: 0.627 ppbv m
RT: 3.150 min Scan# 113
Delta R.T. 0.000 min
Lab File: VL039147.D
Acq: 1 Jun 2022 14:27

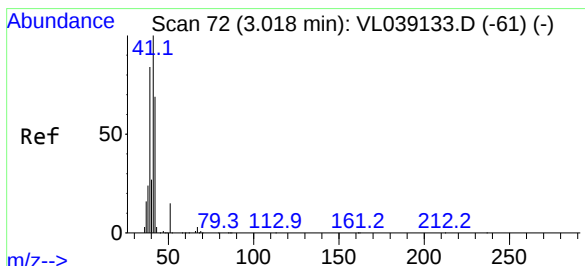
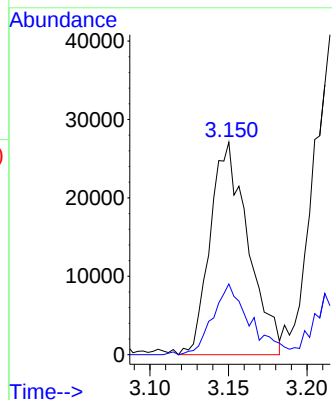
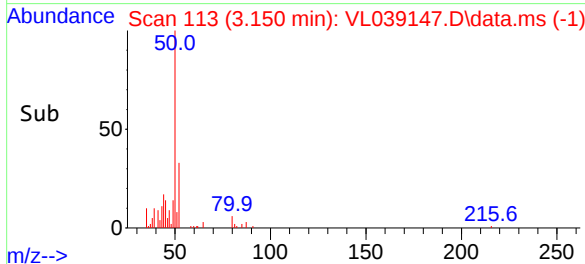
Instrument :
MSVOA_L
ClientSampleId :
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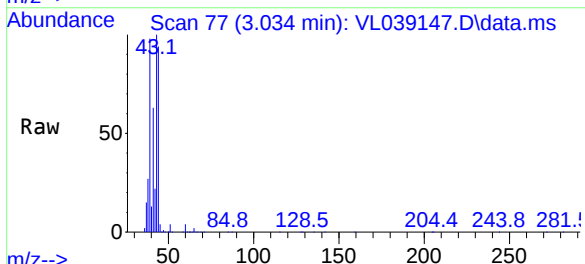
Tgt Ion: 50 Resp: 45549
Ion Ratio Lower Upper
50 100
52 33.3 25.9 38.9

Manual Integrations
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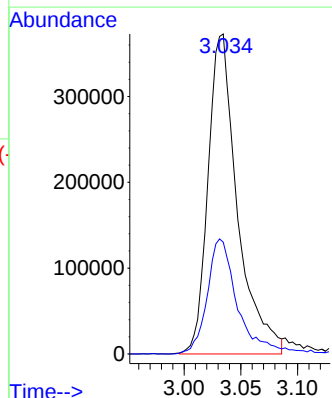
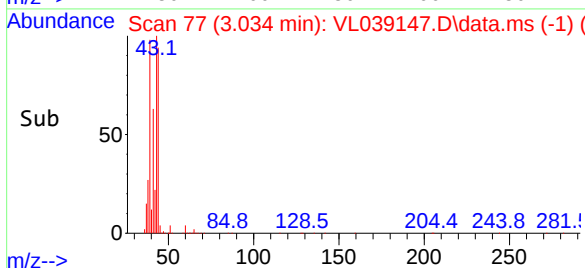
Reviewed By :Semsettin Yesilyurt 06/06/2022
Supervised By :Mahesh Dadoda 06/06/2022

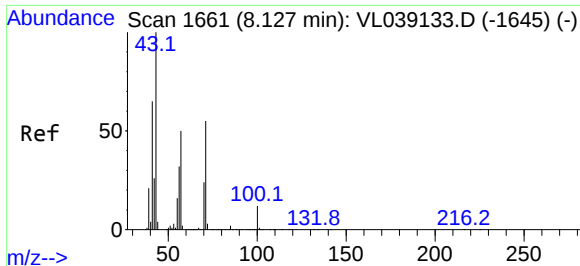


#9
Propene
Concen: 10.894 ppbv m
RT: 3.034 min Scan# 77
Delta R.T. 0.016 min
Lab File: VL039147.D
Acq: 1 Jun 2022 14:27



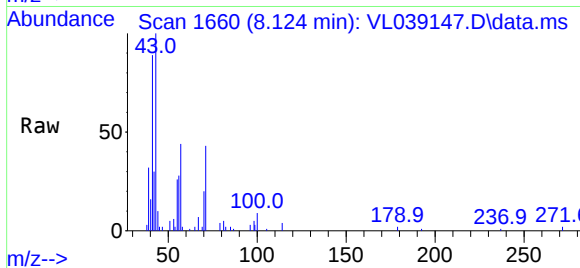
Tgt Ion: 41 Resp: 672030
Ion Ratio Lower Upper
41 100
42 256.4 55.4 83.2#





#10
Heptane
Concen: 0.179 ppbv m
RT: 8.124 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL039147.D
Acq: 1 Jun 2022 14:27

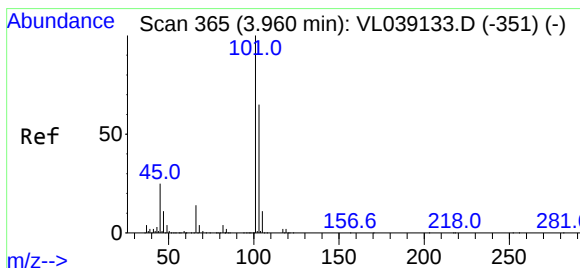
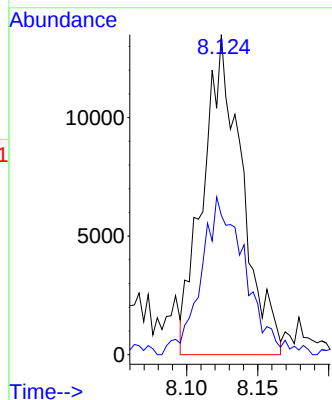
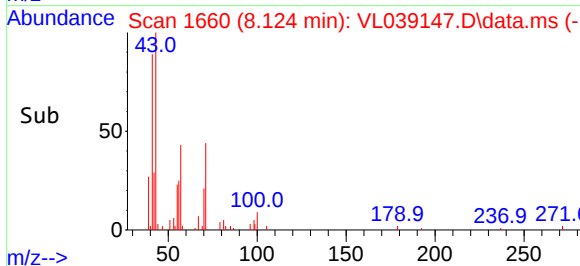
Instrument :
MSVOA_L
ClientSampleId :
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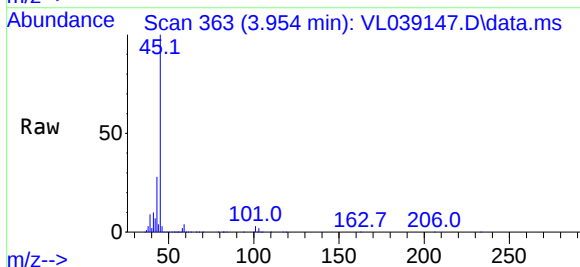
Tgt Ion: 43 Resp: 2582
Ion Ratio Lower Upper
43 100
57 56.3 41.4 62.2

Manual Integrations
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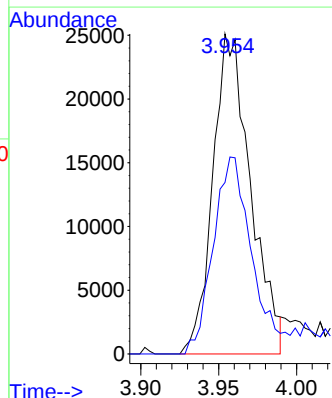
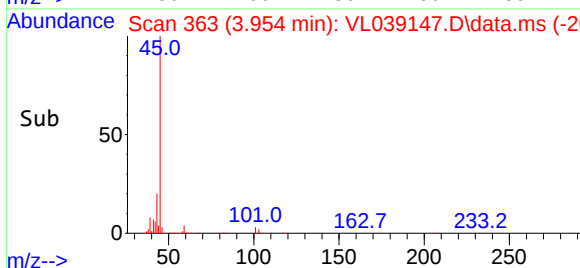
Reviewed By :Semsettin Yesilyurt 06/06/2022
Supervised By :Mahesh Dadoda 06/06/2022

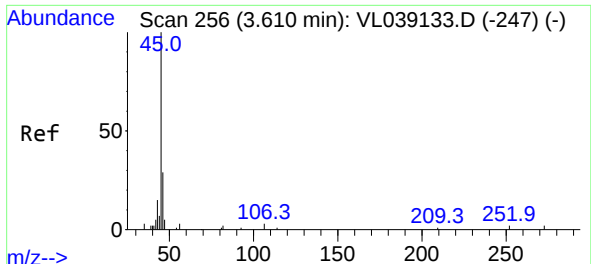


#11
Trichlorofluoromethane
Concen: 0.239 ppbv
RT: 3.954 min Scan# 363
Delta R.T. -0.006 min
Lab File: VL039147.D
Acq: 1 Jun 2022 14:27



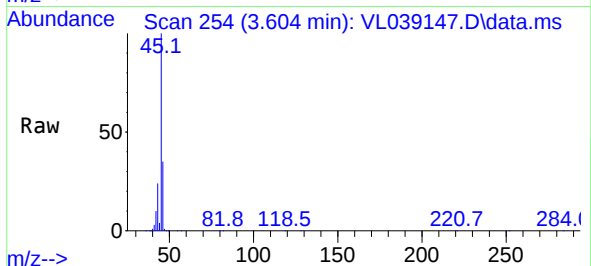
Tgt Ion:101 Resp: 42292
Ion Ratio Lower Upper
101 100
103 53.6 51.7 77.5





#13
Ethanol
Concen: 762.054 ppbv
RT: 3.604 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL039147.D
Acq: 1 Jun 2022 14:27

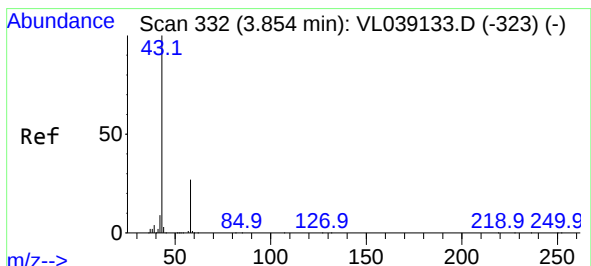
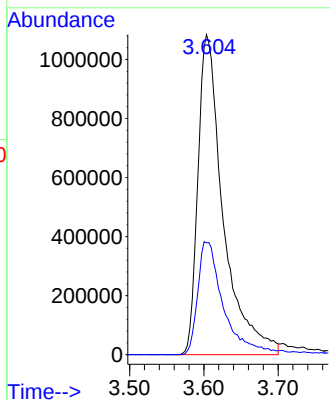
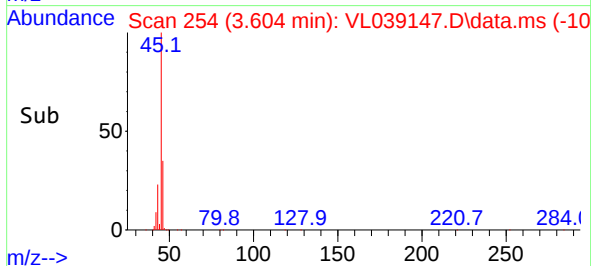
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



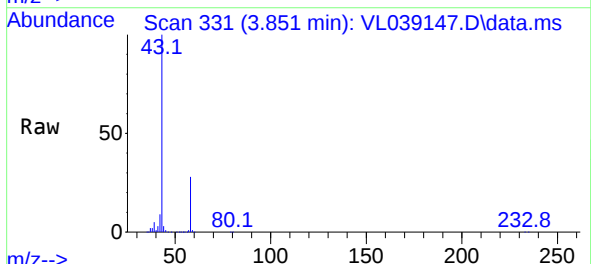
Tgt Ion: 45 Resp: 2563754
Ion Ratio Lower Upper
45 100
46 37.8 0.0 0.0

Manual Integrations
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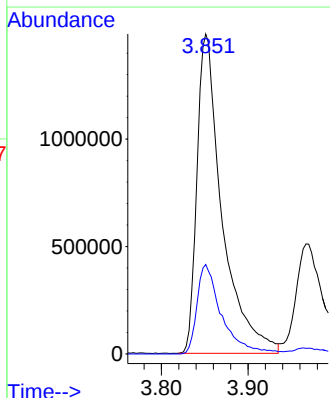
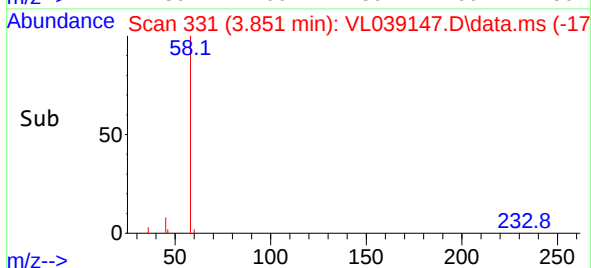
Reviewed By :Semsettin Yesilyurt 06/06/2022
Supervised By :Mahesh Dadoda 06/06/2022

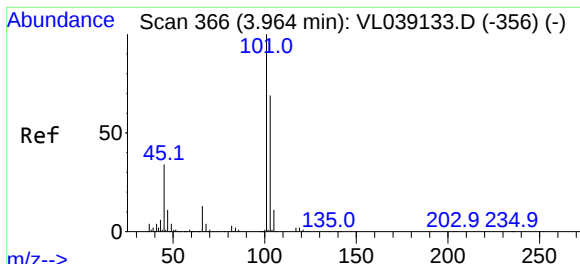


#15
Acetone
Concen: 25.866 ppbv
RT: 3.851 min Scan# 331
Delta R.T. -0.003 min
Lab File: VL039147.D
Acq: 1 Jun 2022 14:27



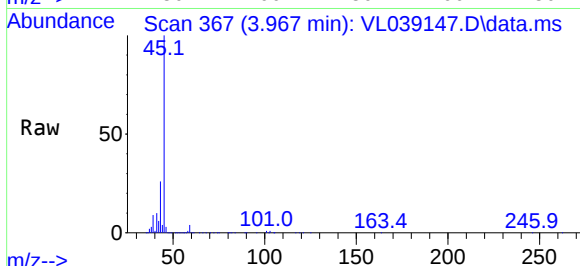
Tgt Ion: 43 Resp: 2995985
Ion Ratio Lower Upper
43 100
58 27.5 22.5 33.7





#19
Isopropyl Alcohol
Concen: 81.343 ppbv
RT: 3.967 min Scan# 30
Delta R.T. 0.003 min
Lab File: VL039147.D
Acq: 1 Jun 2022 14:27

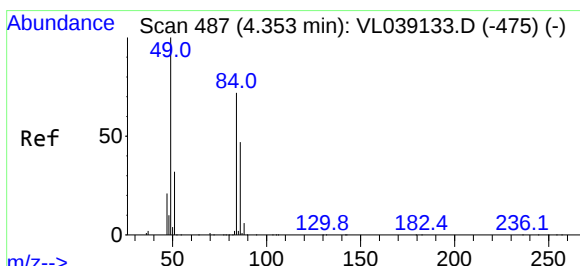
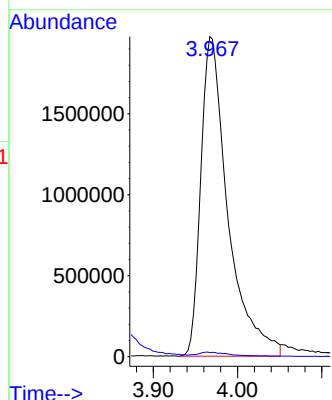
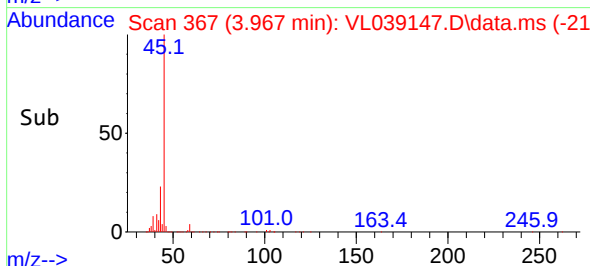
Instrument :
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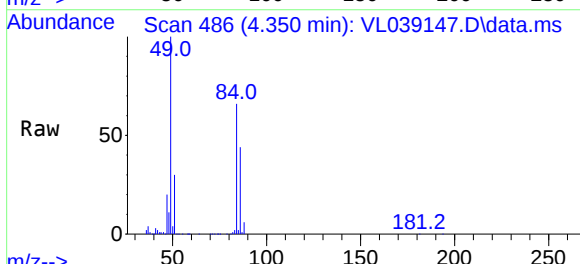
Tgt Ion: 45 Resp: 441896
Ion Ratio Lower Upper
45 100
58 2.0 1.8 2.8

Manual Integrations
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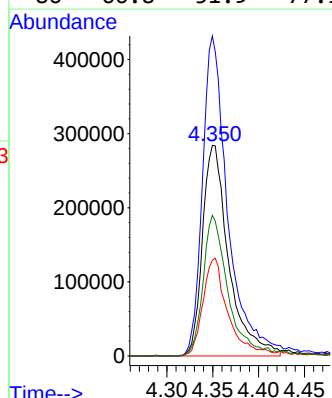
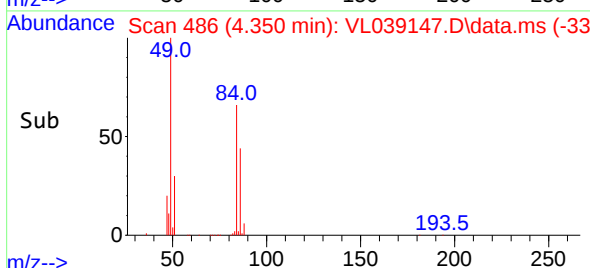
Reviewed By :Semsettin Yesilyurt 06/06/2022
Supervised By :Mahesh Dadoda 06/06/2022

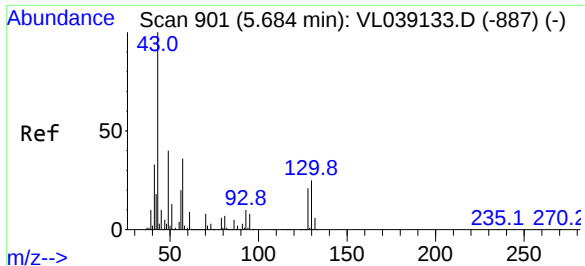


#20
Methylene Chloride
Concen: 11.603 ppbv
RT: 4.350 min Scan# 486
Delta R.T. -0.003 min
Lab File: VL039147.D
Acq: 1 Jun 2022 14:27



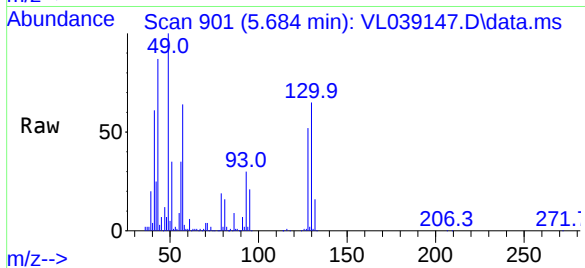
Tgt Ion: 84 Resp: 566371
Ion Ratio Lower Upper
84 100
49 151.7 111.1 166.7
51 45.2 35.3 52.9
86 66.8 51.9 77.9





#25
Ethyl Acetate
Concen: 2.682 ppbv
RT: 5.684 min Scan# 901
Delta R.T. 0.000 min
Lab File: VL039147.D
Acq: 1 Jun 2022 14:27

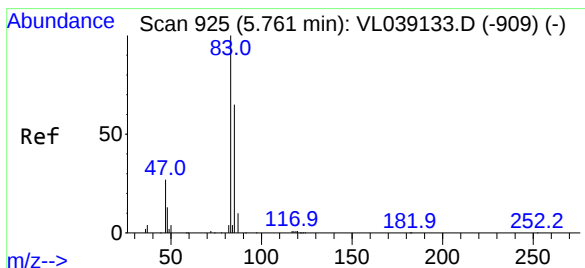
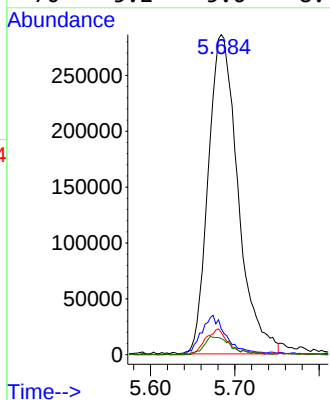
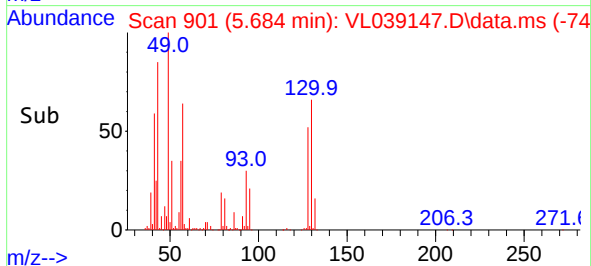
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 43 Resp: 70014
Ion Ratio Lower Upper
43 100
45 11.3 8.2 12.2
61 6.6 8.4 12.6
70 5.2 5.6 8.4#

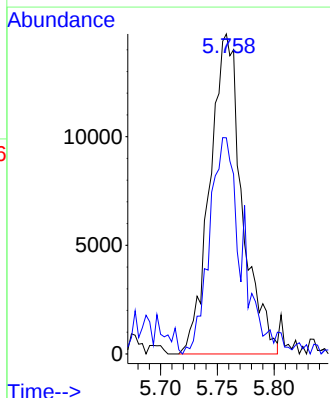
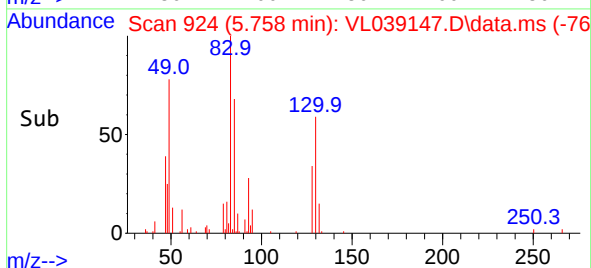
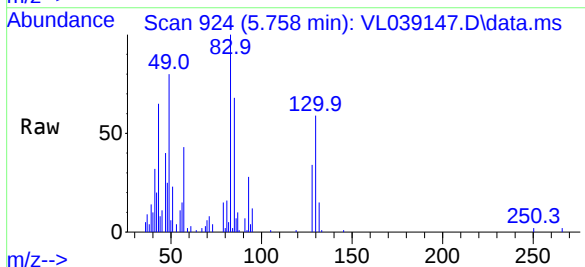
Manual Integrations
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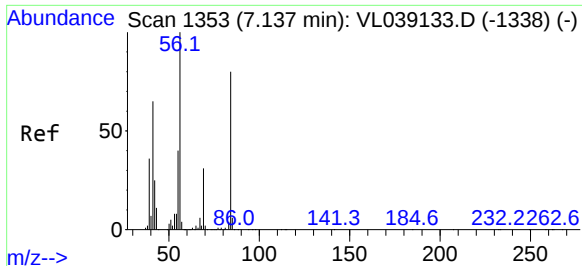
Reviewed By :Semsettin Yesilyurt 06/06/2022
Supervised By :Mahesh Dadoda 06/06/2022



#29
Chloroform
Concen: 0.151 ppbv m
RT: 5.758 min Scan# 924
Delta R.T. -0.003 min
Lab File: VL039147.D
Acq: 1 Jun 2022 14:27

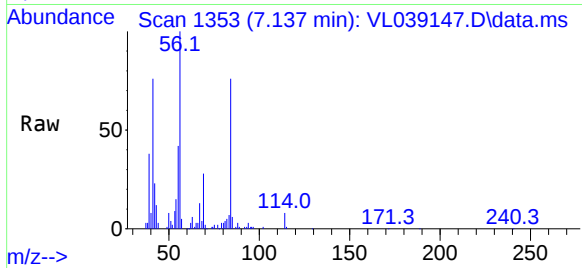
Tgt Ion: 83 Resp: 29100
Ion Ratio Lower Upper
83 100
85 67.6 52.4 78.6





#30
Cyclohexane
Concen: 0.760 ppbv m
RT: 7.137 min Scan# 1353
Delta R.T. 0.000 min
Lab File: VL039147.D
Acq: 1 Jun 2022 14:27

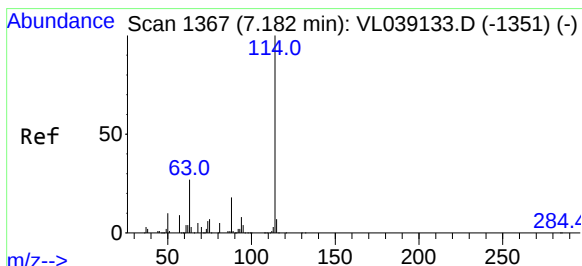
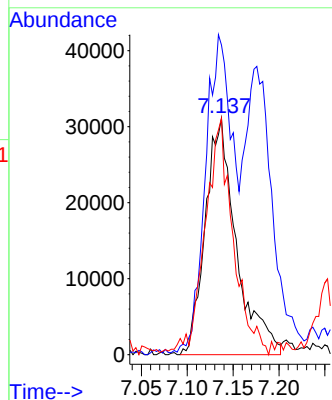
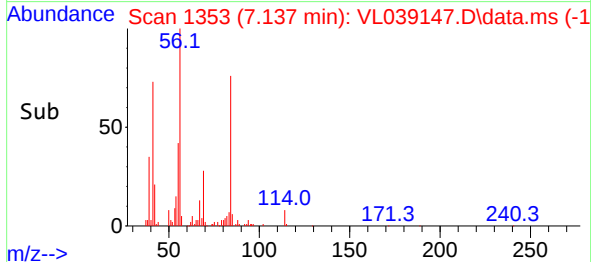
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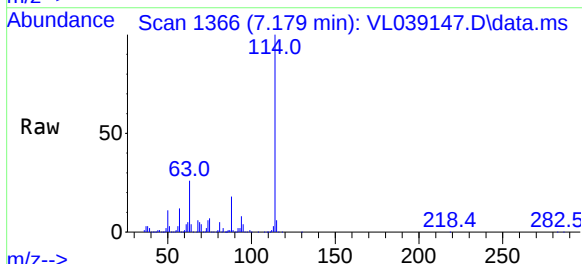
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Ion Ratio Lower Upper
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41 93.7 68.9 103.3

Manual Integrations
APPROVED

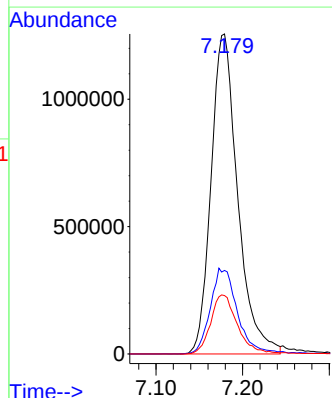
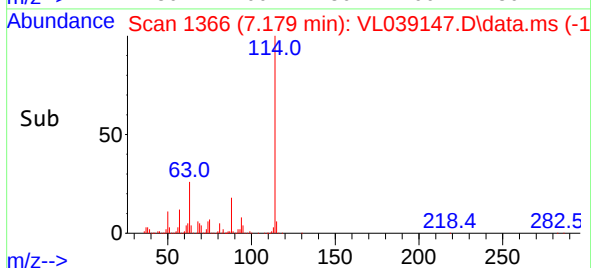
Reviewed By :Semsettin Yesilyurt 06/06/2022
Supervised By :Mahesh Dadoda 06/06/2022

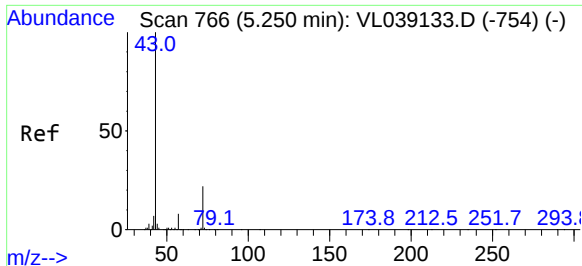


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.179 min Scan# 1366
Delta R.T. -0.003 min
Lab File: VL039147.D
Acq: 1 Jun 2022 14:27



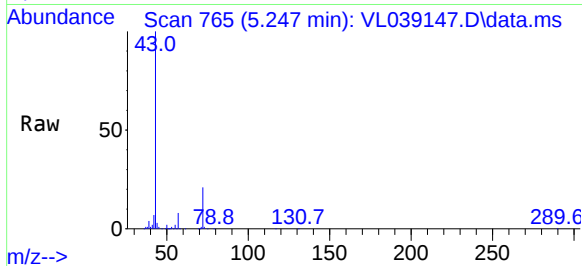
Tgt Ion:114 Resp: 2683179
Ion Ratio Lower Upper
114 100
63 27.6 21.7 32.5
88 18.9 14.8 22.2





#34
2-Butanone
Concen: 3.050 ppbv
RT: 5.247 min Scan# 70
Delta R.T. -0.003 min
Lab File: VL039147.D
Acq: 1 Jun 2022 14:27

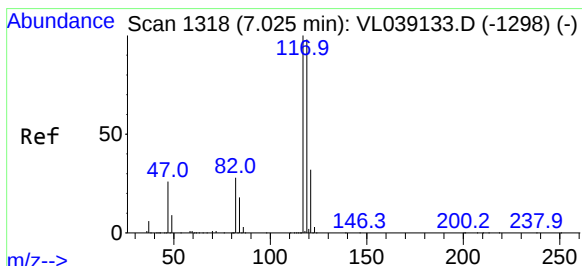
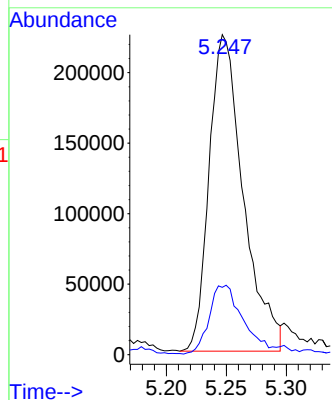
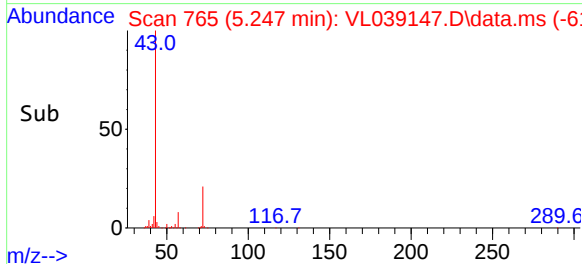
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



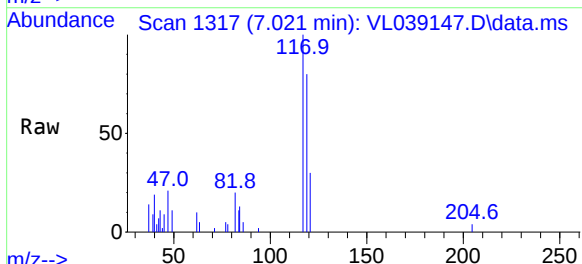
Tgt Ion: 43 Resp: 444604
Ion Ratio Lower Upper
43 100
72 25.1 18.2 27.2

Manual Integrations
APPROVED

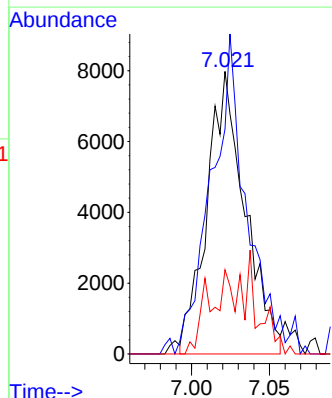
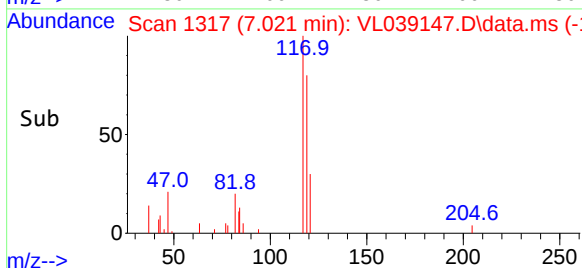
Reviewed By :Semsettin Yesilyurt 06/06/2022
Supervised By :Mahesh Dadoda 06/06/2022

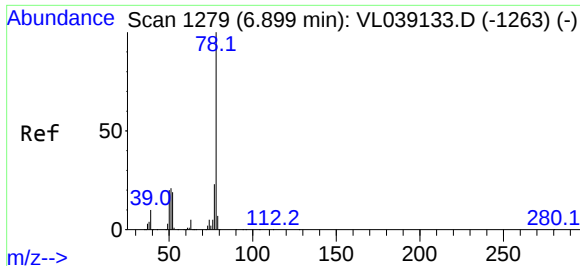


#35
Carbon Tetrachloride
Concen: 0.069 ppbv
RT: 7.021 min Scan# 1317
Delta R.T. -0.003 min
Lab File: VL039147.D
Acq: 1 Jun 2022 14:27



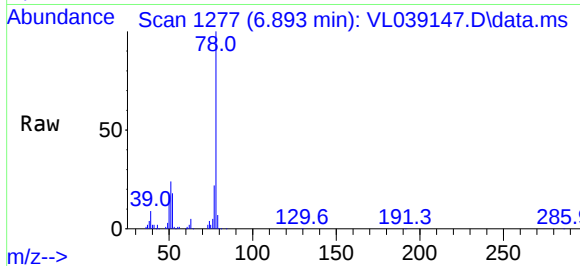
Tgt Ion:117 Resp: 13561
Ion Ratio Lower Upper
117 100
119 77.4 78.6 118.0#
121 30.7 25.4 38.0





#36
Benzene
Concen: 0.969 ppbv
RT: 6.893 min Scan# 11
Delta R.T. -0.006 min
Lab File: VL039147.D
Acq: 1 Jun 2022 14:27

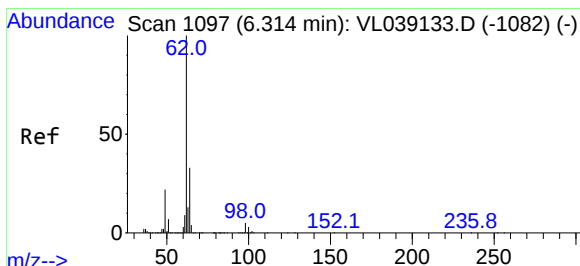
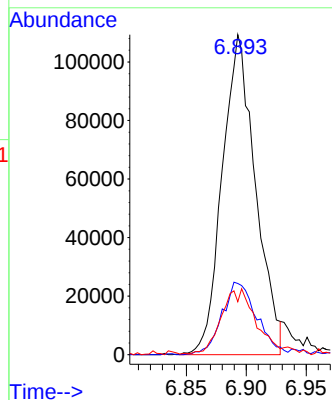
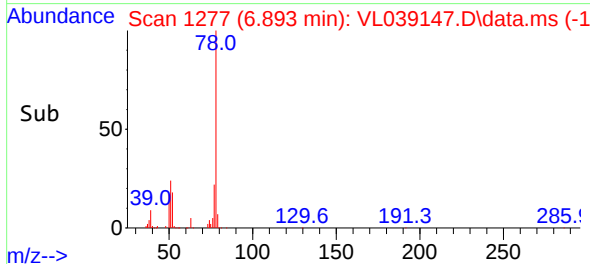
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 78 Resp: 211130
Ion Ratio Lower Upper
78 100
77 22.3 18.6 27.8
50 16.4 15.8 23.8

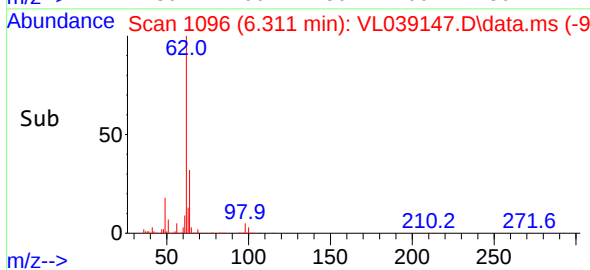
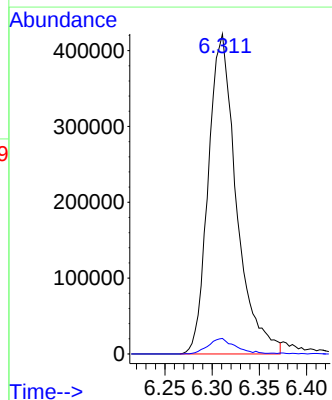
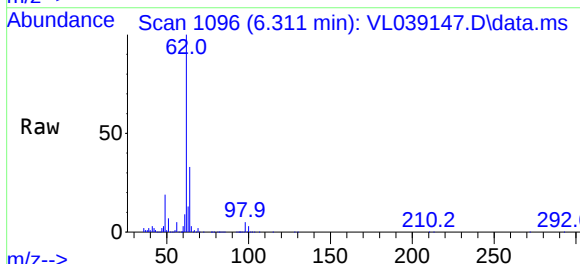
Manual Integrations
APPROVED

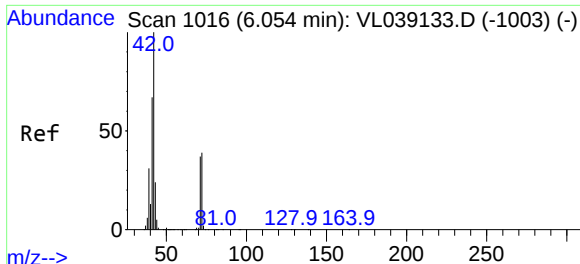
Reviewed By :Semsettin Yesilyurt 06/06/2022
Supervised By :Mahesh Dadoda 06/06/2022



#37
1,2-Dichloroethane
Concen: 6.085 ppbv
RT: 6.311 min Scan# 1096
Delta R.T. -0.003 min
Lab File: VL039147.D
Acq: 1 Jun 2022 14:27

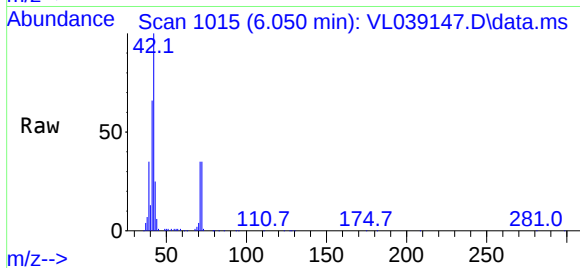
Tgt Ion: 62 Resp: 872383
Ion Ratio Lower Upper
62 100
98 4.9 4.3 6.5





#41
Tetrahydrofuran
Concen: 2.724 ppbv m
RT: 6.050 min Scan# 1016
Delta R.T. -0.003 min
Lab File: VL039147.D
Acq: 1 Jun 2022 14:27

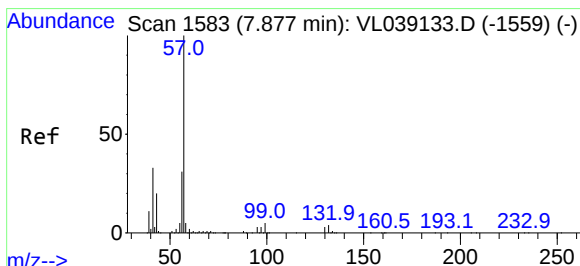
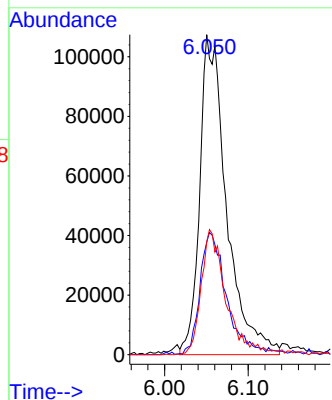
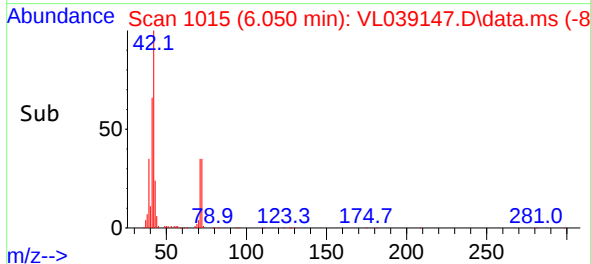
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 42 Resp: 23885
Ion Ratio Lower Upper
42 100
72 39.5 32.0 48.0
71 37.1 31.1 46.7

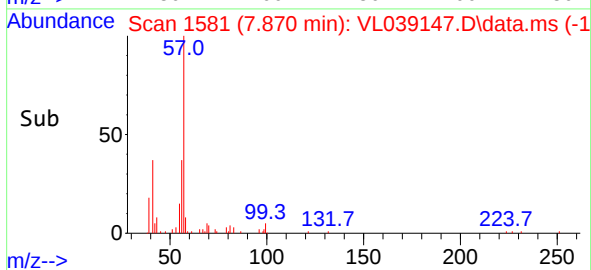
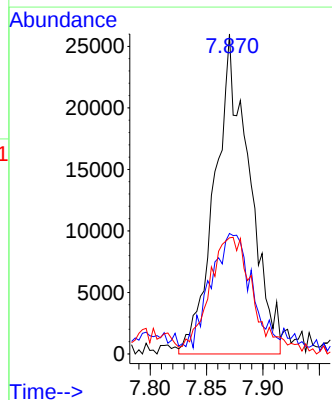
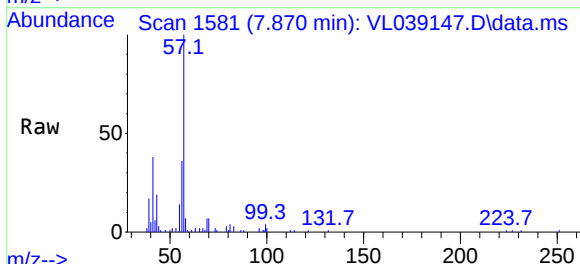
Manual Integrations
APPROVED

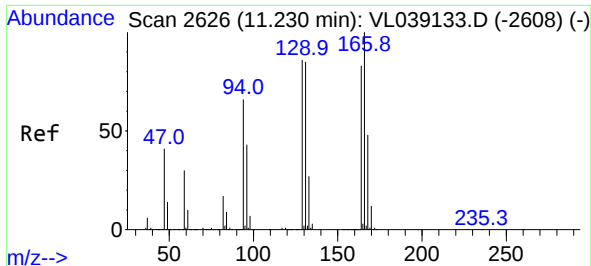
Reviewed By :Semsettin Yesilyurt 06/06/2022
Supervised By :Mahesh Dadoda 06/06/2022



#44
2,2,4-Trimethylpentane
Concen: 0.145 ppbv m
RT: 7.870 min Scan# 1581
Delta R.T. -0.006 min
Lab File: VL039147.D
Acq: 1 Jun 2022 14:27

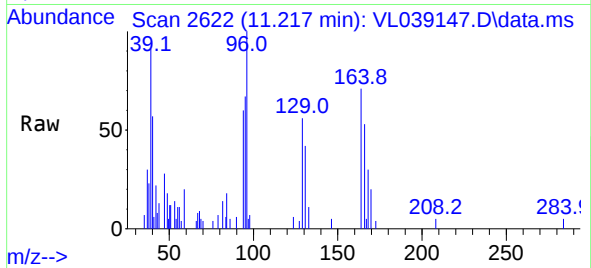
Tgt Ion: 57 Resp: 55178
Ion Ratio Lower Upper
57 100
41 51.5 26.2 39.4#
56 48.7 24.7 37.1#





#52
Tetrachloroethene
Concen: 0.058 ppbv m
RT: 11.217 min Scan# 2622
Delta R.T. -0.013 min
Lab File: VL039147.D
Acq: 1 Jun 2022 14:27

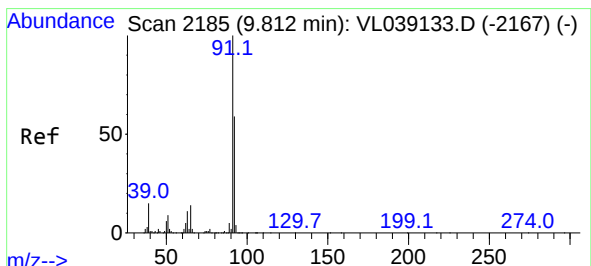
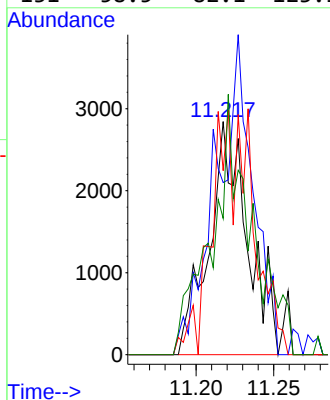
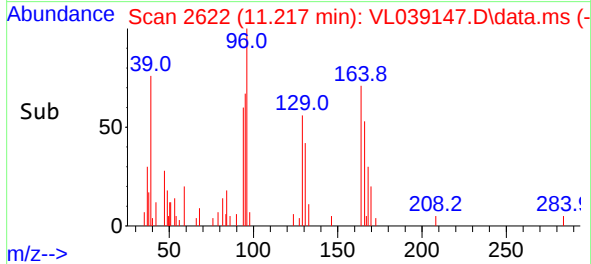
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



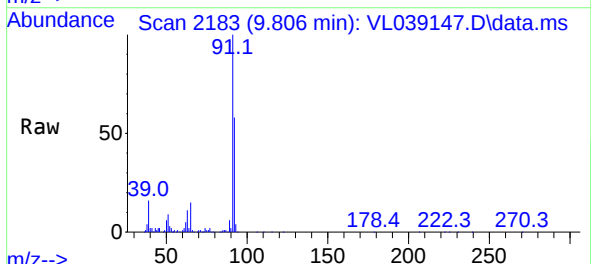
Tgt Ion:164 Resp: 489
Ion Ratio Lower Upper
164 100
166 73.8 96.3 144.5
129 78.9 82.5 123.7
131 58.5 82.1 123.1

Manual Integrations
APPROVED

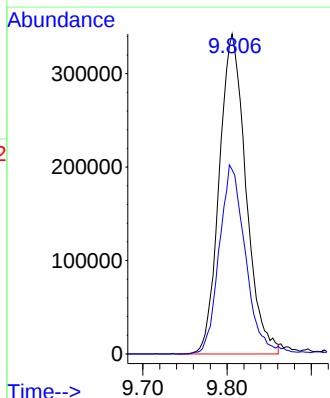
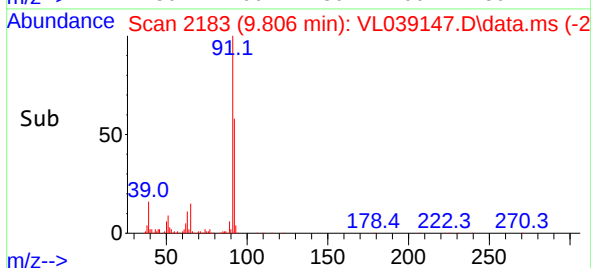
Reviewed By :Semsettin Yesilyurt 06/06/2022
Supervised By :Mahesh Dadoda 06/06/2022

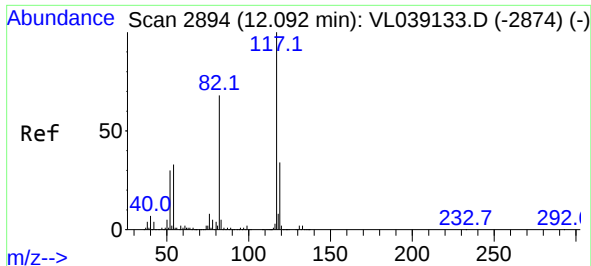


#53
Toluene
Concen: 3.001 ppbv
RT: 9.806 min Scan# 2183
Delta R.T. -0.006 min
Lab File: VL039147.D
Acq: 1 Jun 2022 14:27



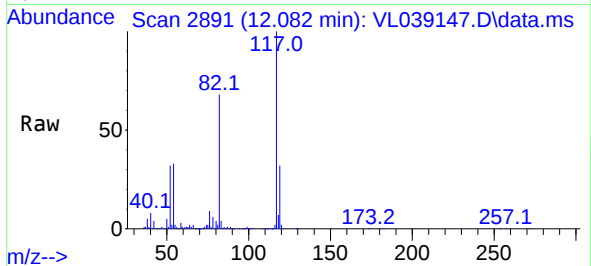
Tgt Ion: 91 Resp: 752732
Ion Ratio Lower Upper
91 100
92 58.8 48.1 72.1





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.082 min Scan# 21
Delta R.T. -0.010 min
Lab File: VL039147.D
Acq: 1 Jun 2022 14:27

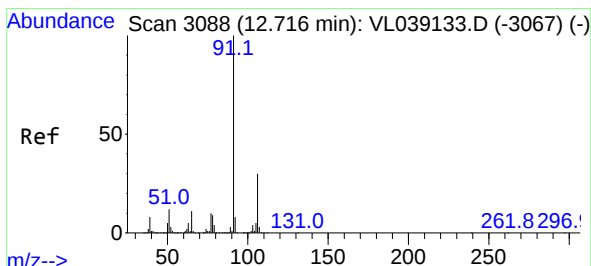
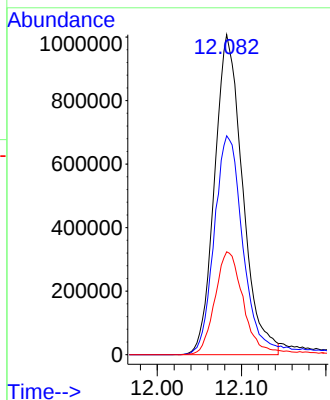
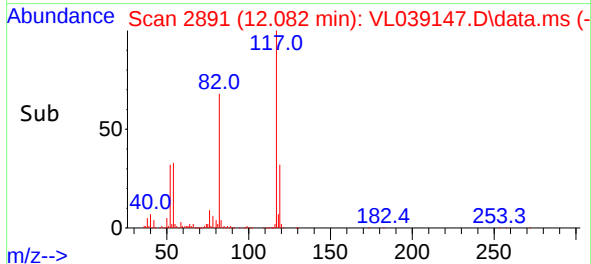
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



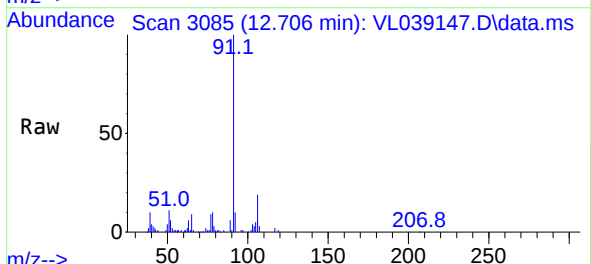
Tgt Ion: 117 Resp: 232938
Ion Ratio Lower Upper
117 100
82 73.4 55.1 82.7
119 34.0 24.7 37.1

Manual Integrations
APPROVED

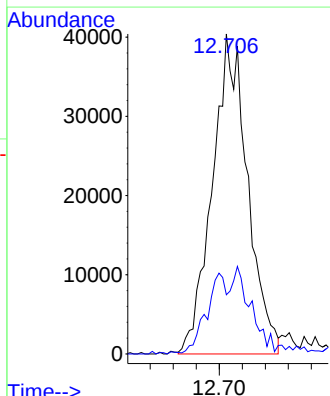
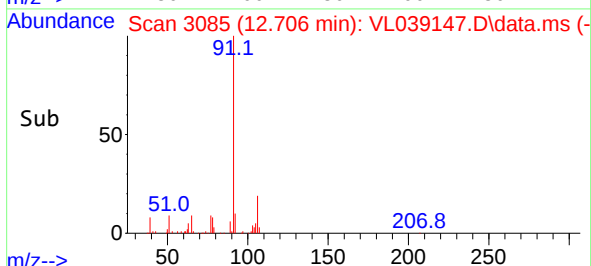
Reviewed By :Semsettin Yesilyurt 06/06/2022
Supervised By :Mahesh Dadoda 06/06/2022

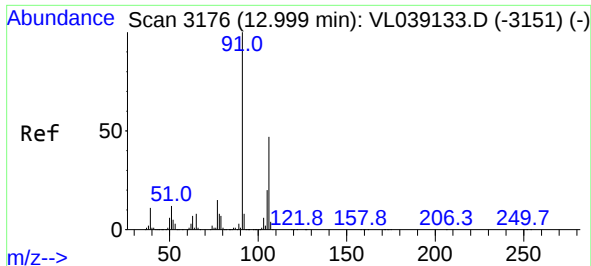


#58
Ethyl Benzene
Concen: 0.267 ppbv m
RT: 12.706 min Scan# 3085
Delta R.T. -0.010 min
Lab File: VL039147.D
Acq: 1 Jun 2022 14:27



Tgt Ion: 91 Resp: 85564
Ion Ratio Lower Upper
91 100
106 18.5 24.2 36.4#





#59

m/p-Xylene

Concen: 0.997 ppbv

RT: 12.967 min Scan# 3176

Delta R.T. -0.032 min

Lab File: VL039147.D

Acq: 1 Jun 2022 14:27

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion: 91 Resp: 281839

Ion Ratio Lower Upper

91 100

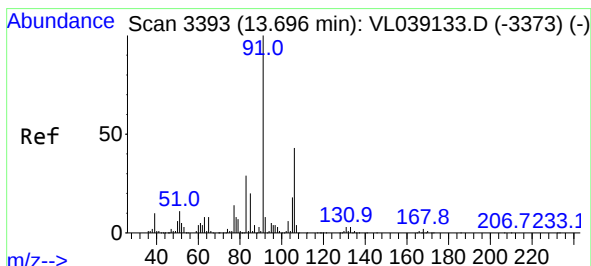
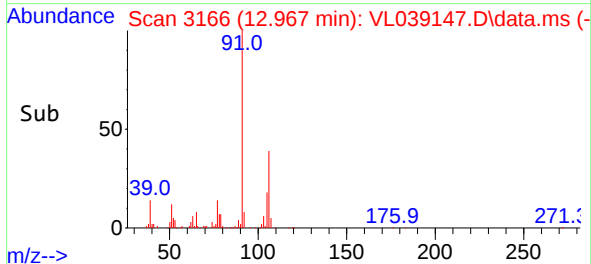
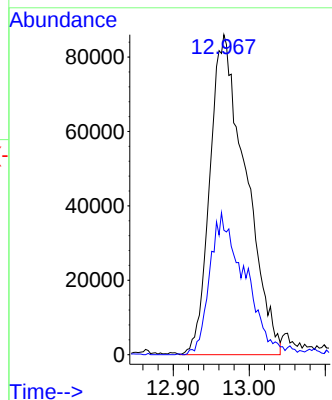
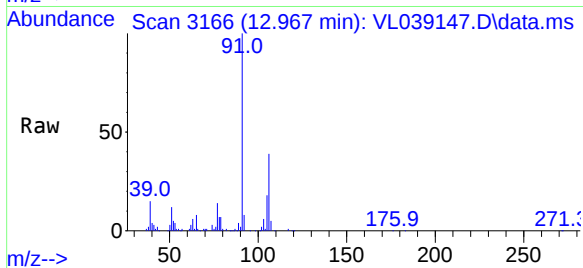
106 44.3 34.3 51.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/06/2022

Supervised By :Mahesh Dadoda 06/06/2022



#60

o-Xylene

Concen: 0.368 ppbv

RT: 13.687 min Scan# 3390

Delta R.T. -0.010 min

Lab File: VL039147.D

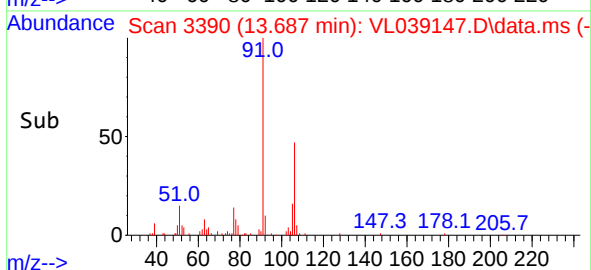
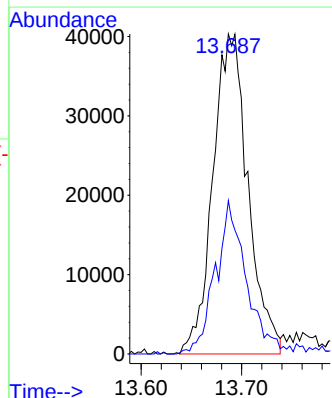
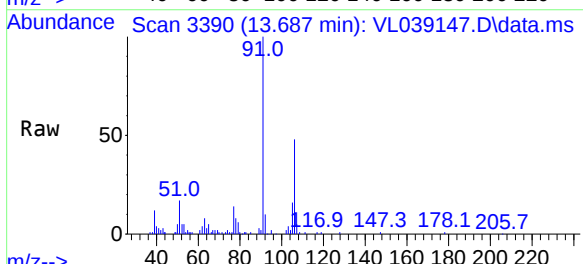
Acq: 1 Jun 2022 14:27

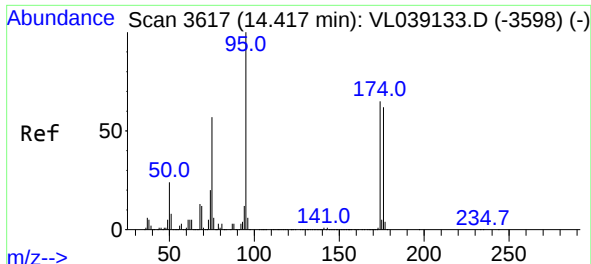
Tgt Ion: 91 Resp: 97836

Ion Ratio Lower Upper

91 100

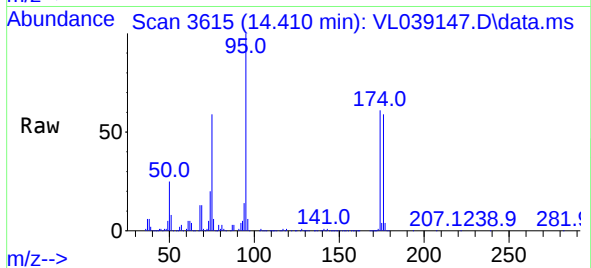
106 44.0 22.3 66.9





#68
1-Bromo-4-Fluorobenzene
Concen: 10.599 ppbv
RT: 14.410 min Scan# 30
Delta R.T. -0.006 min
Lab File: VL039147.D
Acq: 1 Jun 2022 14:27

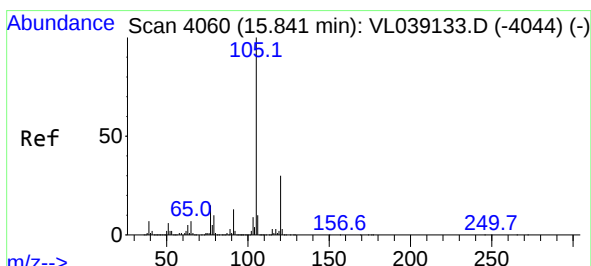
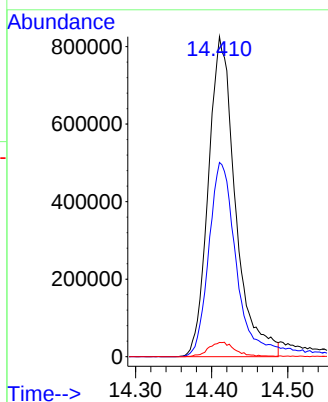
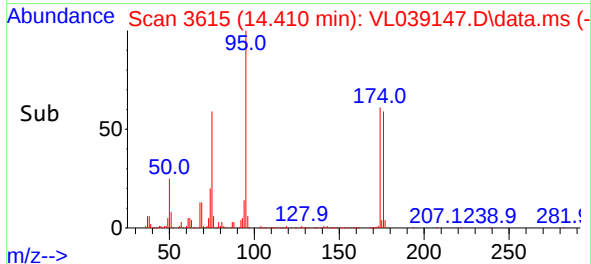
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



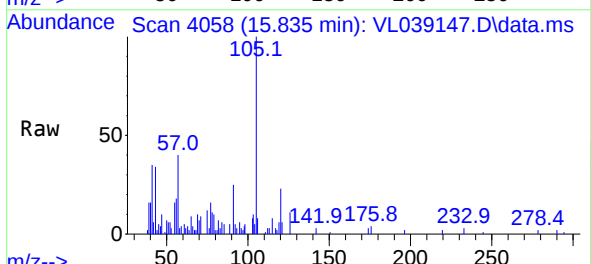
Tgt Ion: 95 Resp: 204110
Ion Ratio Lower Upper
95 100
174 65.4 53.8 80.8
175 4.6 4.1 6.1

Manual Integrations
APPROVED

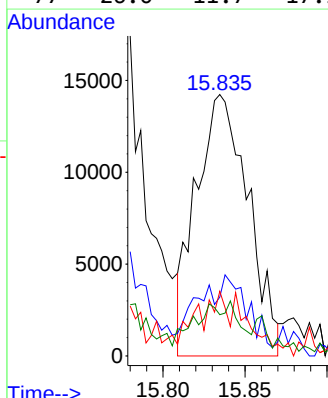
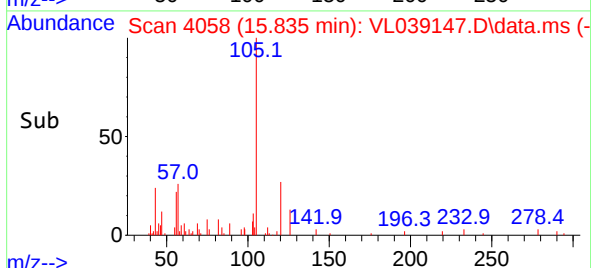
Reviewed By :Semsettin Yesilyurt 06/06/2022
Supervised By :Mahesh Dadoda 06/06/2022

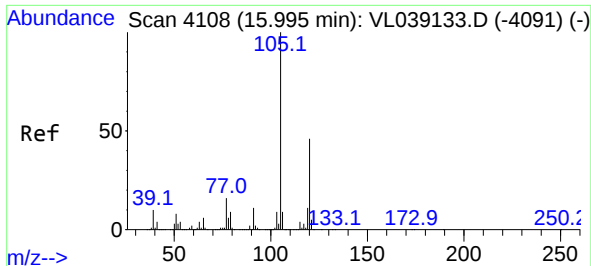


#72
4-Ethyltoluene
Concen: 0.101 ppbv m
RT: 15.835 min Scan# 4058
Delta R.T. -0.006 min
Lab File: VL039147.D
Acq: 1 Jun 2022 14:27



Tgt Ion:105 Resp: 31477
Ion Ratio Lower Upper
105 100
120 36.0 23.9 35.9#
91 24.2 10.6 16.0#
77 26.0 11.7 17.5#





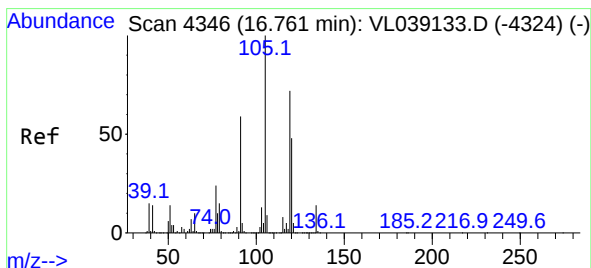
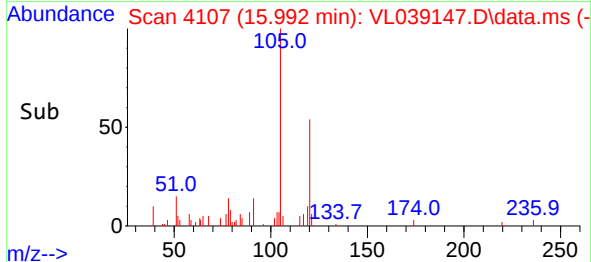
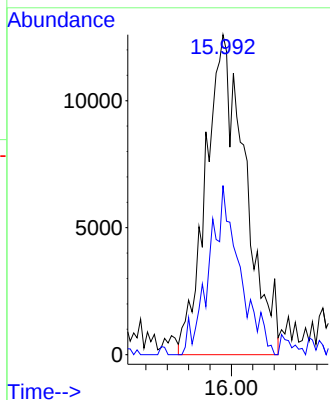
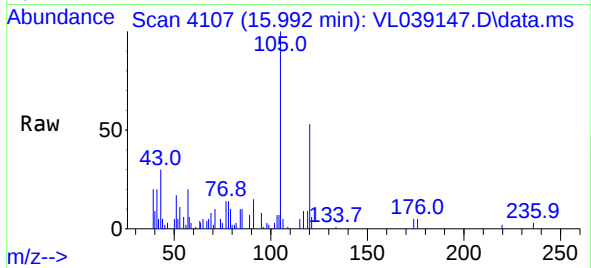
#73
1,3,5-Trimethylbenzene
Concen: 0.115 ppbv m
RT: 15.992 min Scan# 4108
Delta R.T. -0.003 min
Lab File: VL039147.D
Acq: 1 Jun 2022 14:27

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion:105 Resp: 32280
Ion Ratio Lower Upper
105 100
120 52.8 36.7 55.1

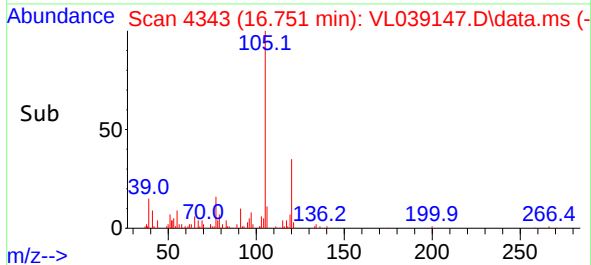
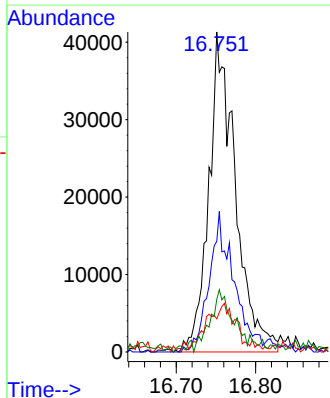
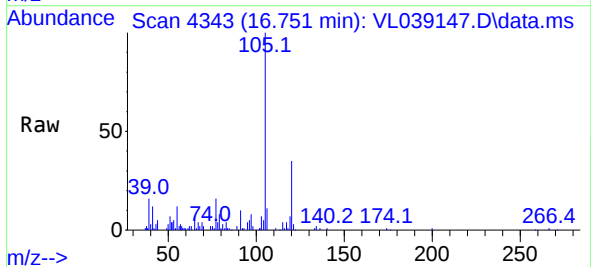
Manual Integrations
APPROVED

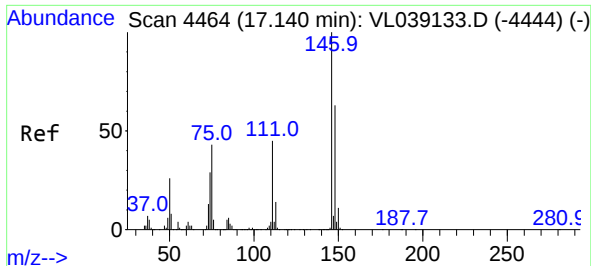
Reviewed By :Semsettin Yesilyurt 06/06/2022
Supervised By :Mahesh Dadoda 06/06/2022



#74
1,2,4-Trimethylbenzene
Concen: 0.308 ppbv m
RT: 16.751 min Scan# 4343
Delta R.T. -0.010 min
Lab File: VL039147.D
Acq: 1 Jun 2022 14:27

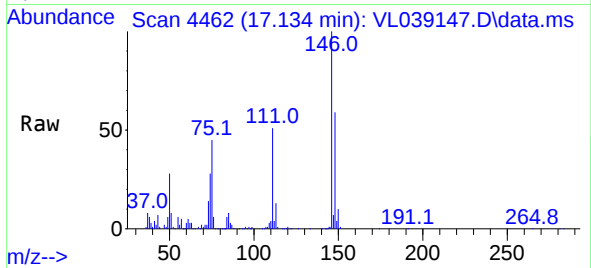
Tgt Ion:105 Resp: 96466
Ion Ratio Lower Upper
105 100
120 34.5 38.1 57.1#
91 10.4 47.4 71.0#
77 16.4 19.5 29.3#





#76
 1,4-Dichlorobenzene
 Concen: 3.035 ppbv
 RT: 17.134 min Scan# 44
 Delta R.T. -0.006 min
 Lab File: VL039147.D
 Acq: 1 Jun 2022 14:27

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP



Tgt Ion:146 Resp: 536799
 Ion Ratio Lower Upper
 146 100
 111 49.8 23.6 71.0
 148 67.8 33.7 101.0

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/06/2022
 Supervised By :Mahesh Dadoda 06/06/2022

