

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041122\
 Data File : VL038876.D
 Acq On : 11 Apr 2022 19:00
 Operator : SY/AP
 Sample : N2332-01DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/13/2022
 Supervised By :Mahesh Dadoda 04/14/2022

Quant Time: Apr 12 02:51:34 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL040522AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Apr 06 06:12:53 2022

QLast Update : Wed Apr 06 06:12:53 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.671	49	1280547	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.172	114	3321478	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.076	117	3049265	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.407	95	2419935	10.462	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	3.047	85	24289	0.134	ppbv	95
4) Chloromethane	3.140	50	9932	0.123	ppbv #	86
9) Propene	3.012	41	575081	6.955	ppbv	94
10) Heptane	8.115	43	2644385	12.697	ppbv	98
13) Ethanol	3.603	45	699513	139.211	ppbv #	100
15) Acetone	3.845	43	16685159	130.874	ppbv #	85
20) Methylene Chloride	4.349	84	67931	1.469	ppbv	89
25) Ethyl Acetate	5.671	43	2180319	6.740	ppbv #	95
26) Hexane	5.690	57	494679	3.360	ppbv #	17
30) Cyclohexane	7.131	84	185829	1.432	ppbv	84
34) 2-Butanone	5.246	43	91122	0.694	ppbv #	89
36) Benzene	6.890	78	699396	2.315	ppbv	97
44) 2,2,4-Trimethylpentane	7.864	57	753983	1.474	ppbv #	61
50) 4-Methyl-2-Pentanone	8.751	43	126451	0.428	ppbv	93
52) Tetrachloroethene	11.214	164	84191	0.798	ppbv	94
53) Toluene	9.803	91	15153399	43.443	ppbv	90
58) Ethyl Benzene	12.696	91	811579	1.781	ppbv	94
59) m/p-Xylene	12.957	91	2111556	5.516	ppbv	99
60) o-Xylene	13.680	91	800973	2.236	ppbv	96
61) Styrene	13.516	104	42056	0.193	ppbv	97
62) Isopropylbenzene	14.654	105	65163m	0.121	ppbv	
64) n-propylbenzene	15.552	120	49841	0.357	ppbv	67
70) n-Butylbenzene	18.539	91	175327	0.317	ppbv #	51
72) 4-Ethyltoluene	15.828	105	353860m	0.827	ppbv	
73) 1,3,5-Trimethylbenzene	15.989	105	296846	0.773	ppbv	90
74) 1,2,4-Trimethylbenzene	16.748	105	1100985	2.711	ppbv #	70
79) Naphthalene	22.175	128	118162m	0.389	ppbv	

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

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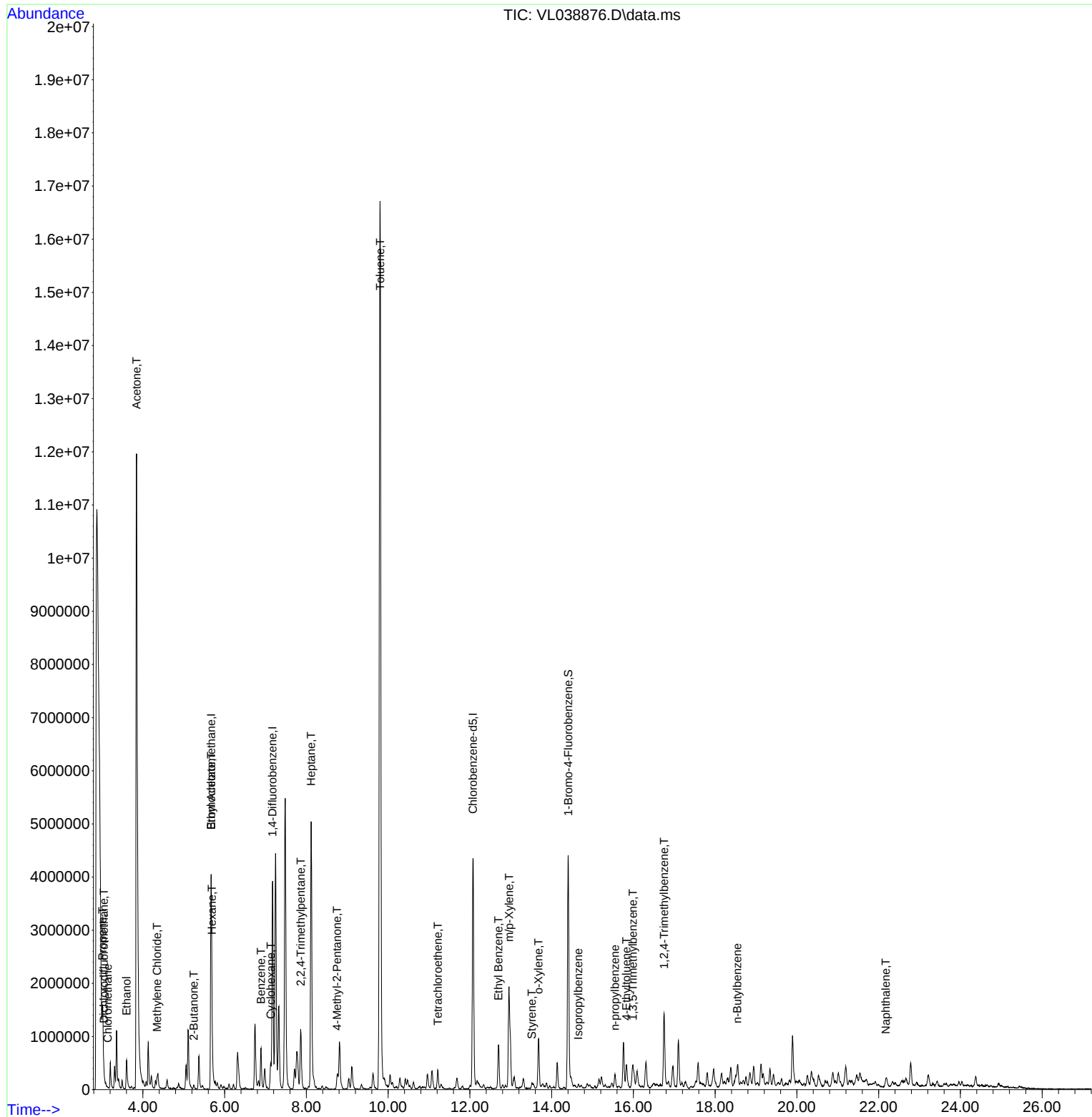
Quant Time: Apr 12 02:51:34 2022

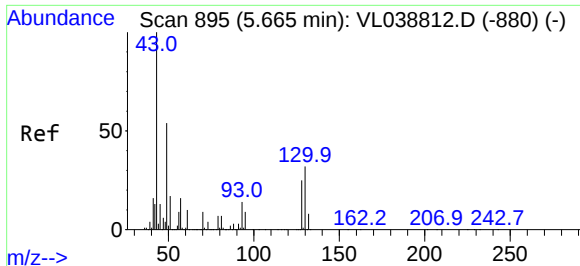
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL040522AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Apr

QLast Update : Wed Apr 06 06:12:53 2022

Response via : Initial Calibration





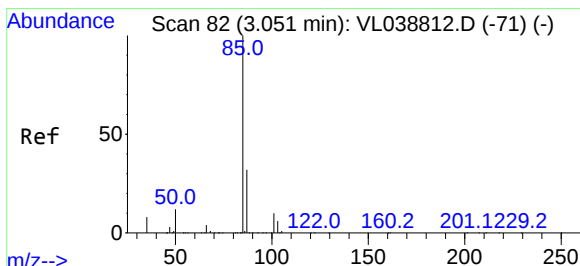
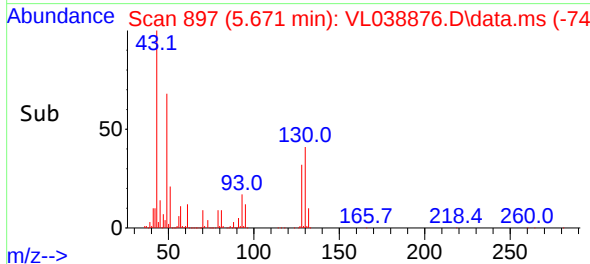
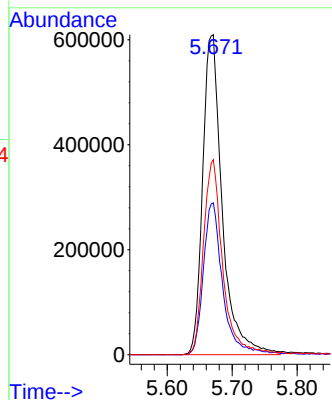
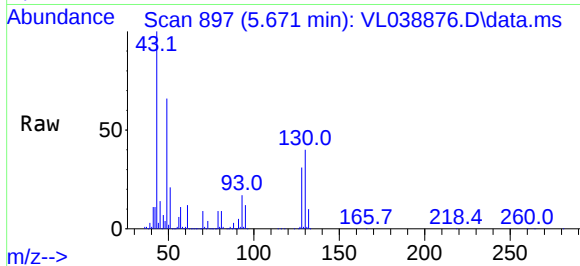
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.671 min Scan# 89
Delta R.T. 0.006 min
Lab File: VL038876.D
Acq: 11 Apr 2022 19:00

Instrument :
MSVOA_L
ClientSampleId :
IA-1DL

Tgt Ion: 49 Resp: 128054
Ion Ratio Lower Upper
49 100
128 47.2 24.1 72.3
130 61.0 30.9 92.8

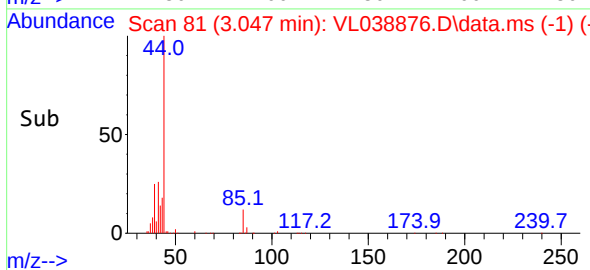
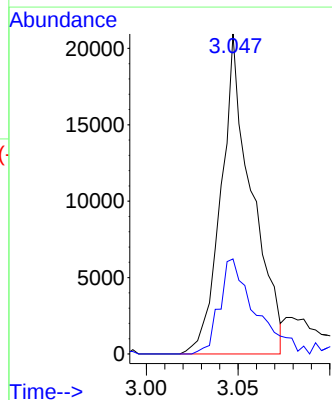
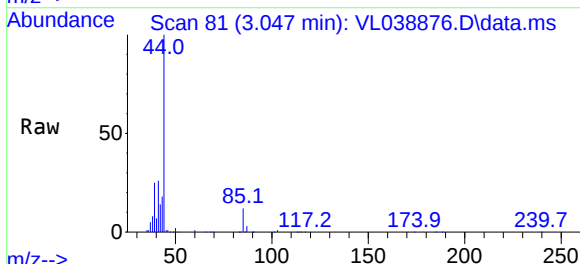
Manual Integrations
APPROVED

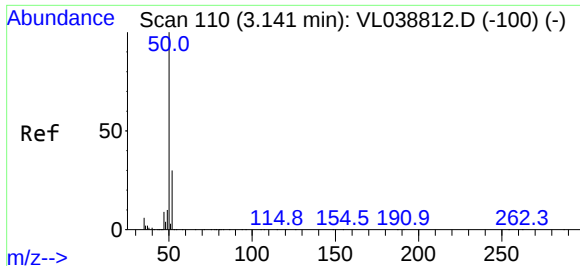
Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022



#2
Dichlorodifluoromethane
Concen: 0.134 ppbv
RT: 3.047 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL038876.D
Acq: 11 Apr 2022 19:00

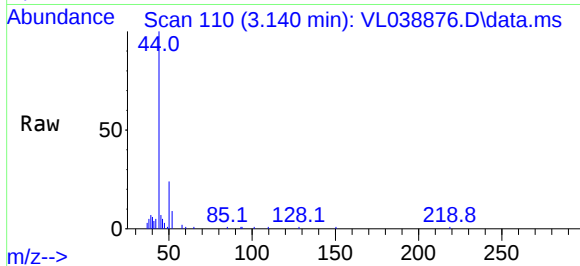
Tgt Ion: 85 Resp: 24289
Ion Ratio Lower Upper
85 100
87 29.7 25.9 38.9





#4
Chloromethane
Concen: 0.123 ppbv
RT: 3.140 min Scan# 110
Delta R.T. -0.000 min
Lab File: VL038876.D
Acq: 11 Apr 2022 19:00

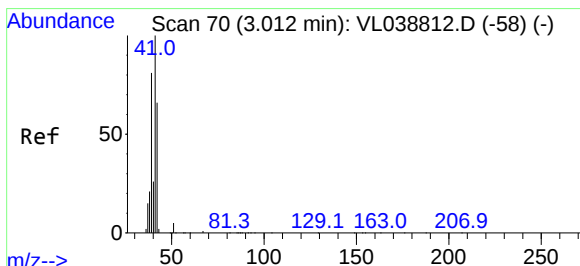
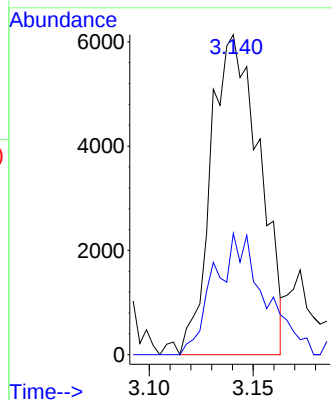
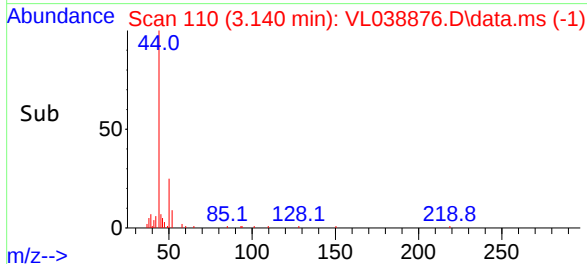
Instrument :
MSVOA_L
ClientSampleId :
IA-1DL



Tgt Ion: 50 Resp: 9932
Ion Ratio Lower Upper
50 100
52 37.9 24.3 36.5

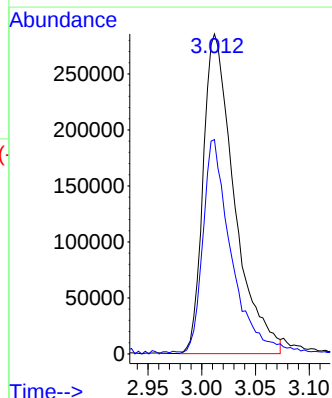
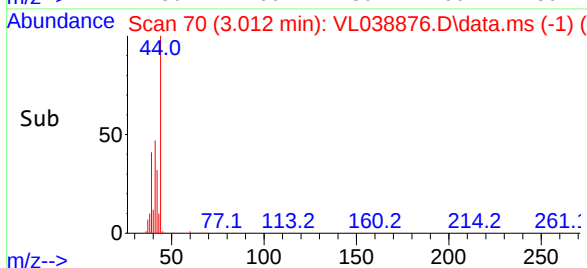
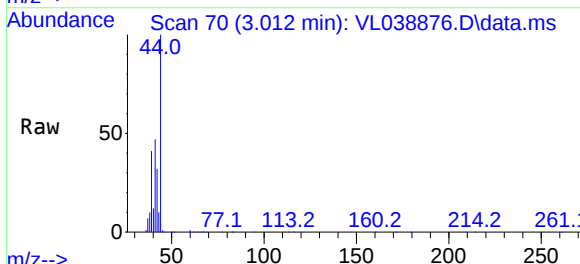
Manual Integrations
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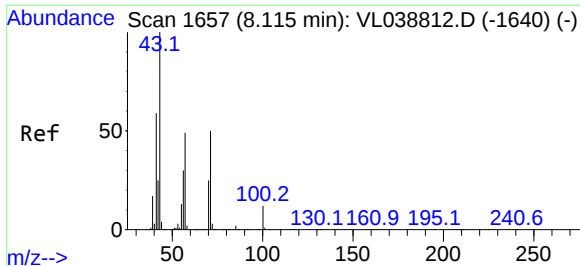
Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022



#9
Propene
Concen: 6.955 ppbv
RT: 3.012 min Scan# 70
Delta R.T. -0.000 min
Lab File: VL038876.D
Acq: 11 Apr 2022 19:00

Tgt Ion: 41 Resp: 575081
Ion Ratio Lower Upper
41 100
42 63.2 54.2 81.4





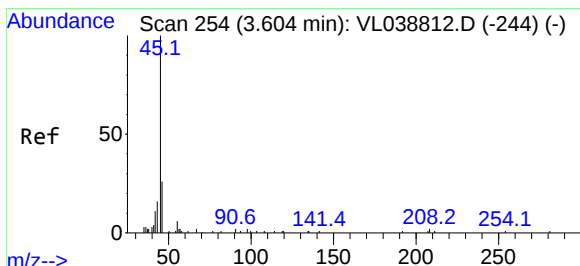
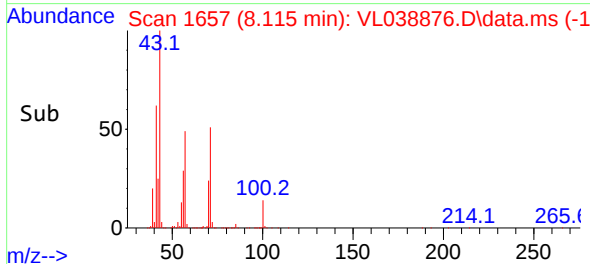
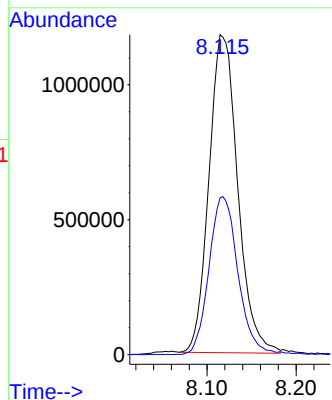
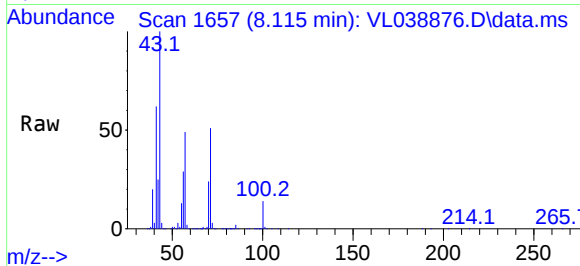
#10
Heptane
Concen: 12.697 ppbv
RT: 8.115 min Scan# 10
Delta R.T. -0.000 min
Lab File: VL038876.D
Acq: 11 Apr 2022 19:00

Instrument :
MSVOA_L
ClientSampleId :
IA-1DL

Tgt Ion: 43 Resp: 264438
Ion Ratio Lower Upper
43 100
57 50.5 39.3 58.9

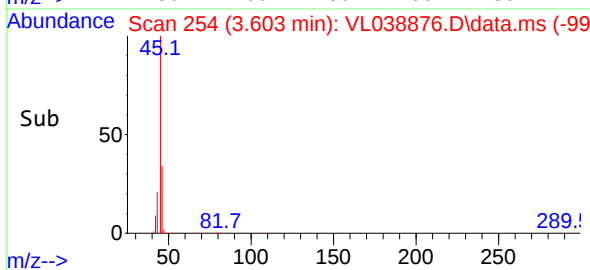
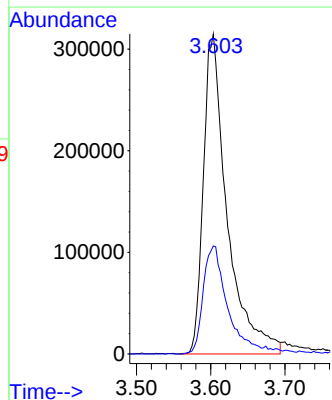
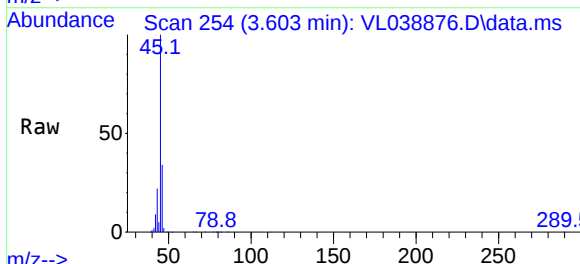
Manual Integrations
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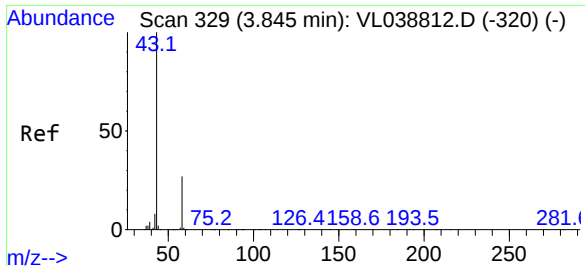
Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022



#13
Ethanol
Concen: 139.211 ppbv
RT: 3.603 min Scan# 254
Delta R.T. -0.000 min
Lab File: VL038876.D
Acq: 11 Apr 2022 19:00

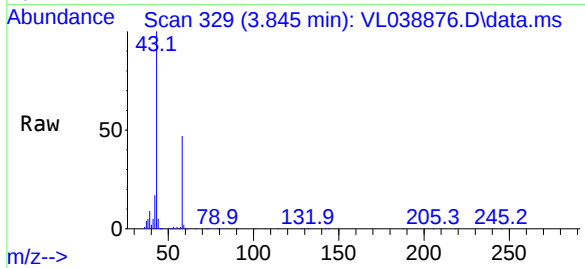
Tgt Ion: 45 Resp: 699513
Ion Ratio Lower Upper
45 100
46 36.6 0.0 0.0#





#15
Acetone
Concen: 130.874 ppbv
RT: 3.845 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL038876.D
Acq: 11 Apr 2022 19:00

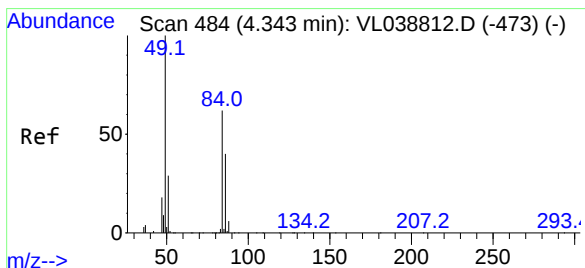
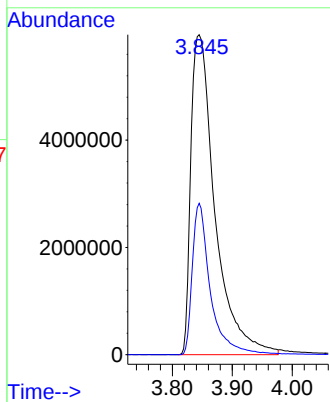
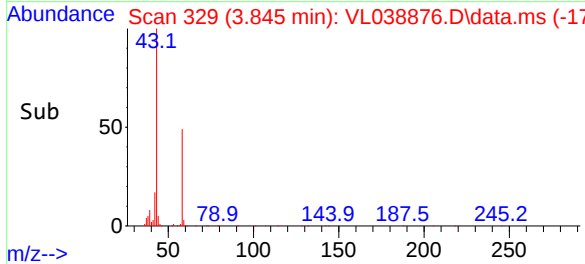
Instrument :
MSVOA_L
ClientSampleId :
IA-1DL



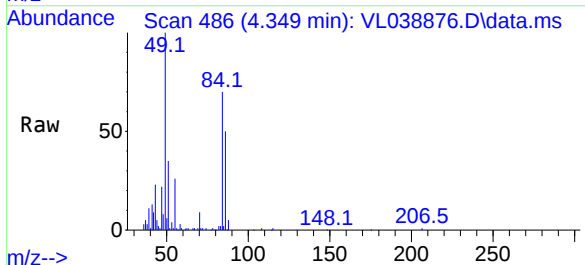
Tgt Ion: 43 Resp:16685159
Ion Ratio Lower Upper
43 100
58 35.9 22.5 33.7

Manual Integrations
APPROVED

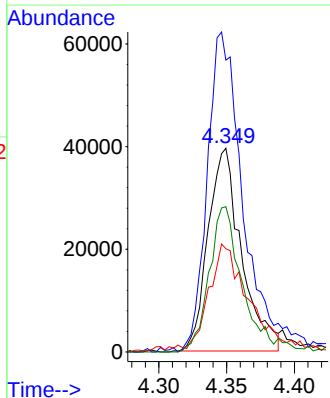
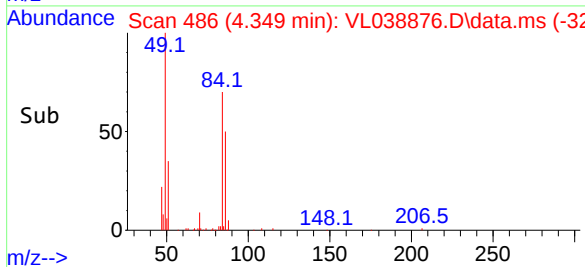
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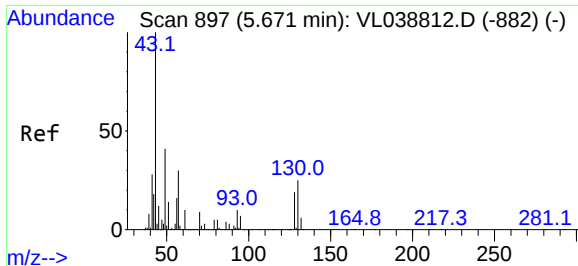


#20
Methylene Chloride
Concen: 1.469 ppbv
RT: 4.349 min Scan# 486
Delta R.T. 0.006 min
Lab File: VL038876.D
Acq: 11 Apr 2022 19:00



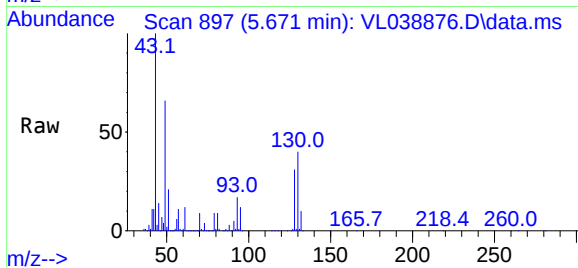
Tgt Ion: 84 Resp: 67931
Ion Ratio Lower Upper
84 100
49 142.9 129.4 194.0
51 47.5 37.4 56.2
86 71.6 51.4 77.2





#25
Ethyl Acetate
Concen: 6.740 ppbv
RT: 5.671 min Scan# 897
Delta R.T. -0.000 min
Lab File: VL038876.D
Acq: 11 Apr 2022 19:00

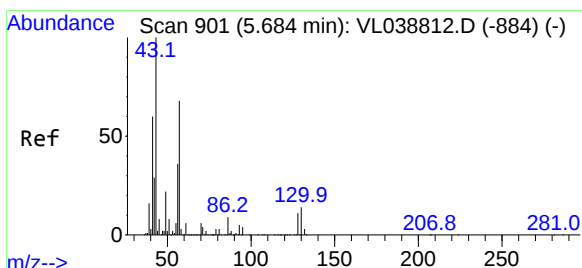
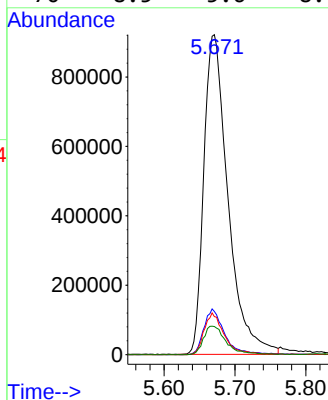
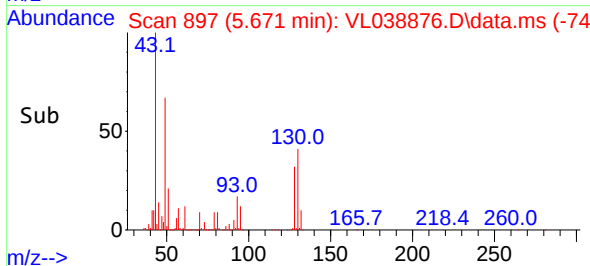
Instrument :
MSVOA_L
Client Sample Id :
IA-1DL



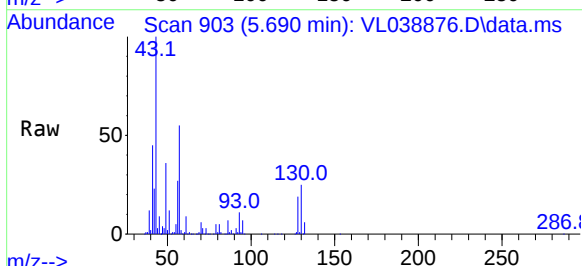
Tgt Ion: 43 Resp: 2180319
Ion Ratio Lower Upper
43 100
45 12.6 8.4 12.6
61 11.3 7.9 11.9
70 8.5 5.6 8.4#

Manual Integrations
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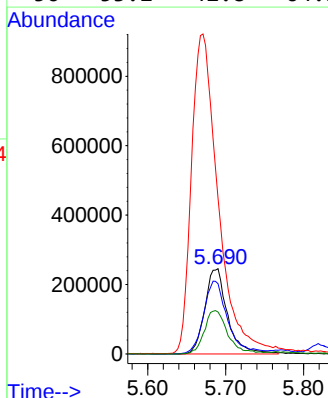
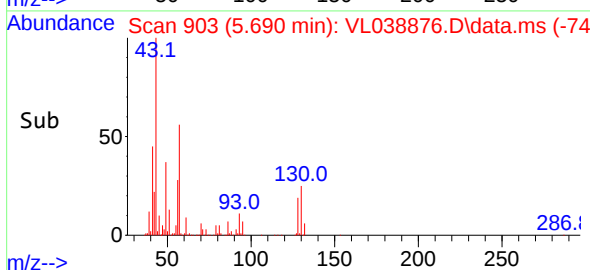
Reviewed By :Semsettin Yesilyurt 04/13/2022
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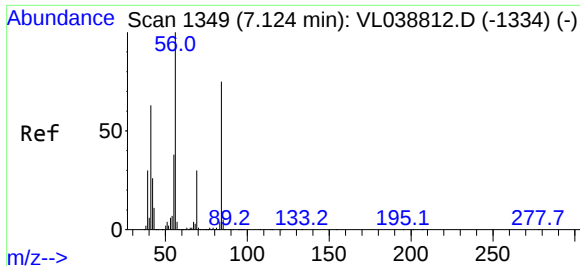


#26
Hexane
Concen: 3.360 ppbv
RT: 5.690 min Scan# 903
Delta R.T. 0.006 min
Lab File: VL038876.D
Acq: 11 Apr 2022 19:00



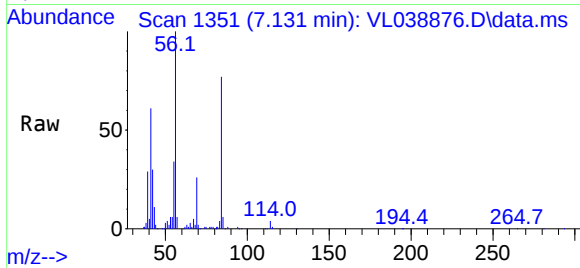
Tgt Ion: 57 Resp: 494679
Ion Ratio Lower Upper
57 100
41 95.5 72.0 108.0
43 452.8 186.6 280.0#
56 53.2 42.8 64.2





#30
Cyclohexane
Concen: 1.432 ppbv
RT: 7.131 min Scan# 1351
Delta R.T. 0.006 min
Lab File: VL038876.D
Acq: 11 Apr 2022 19:00

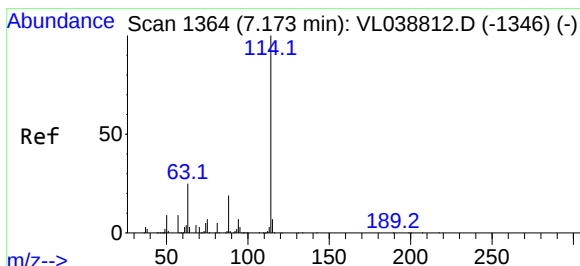
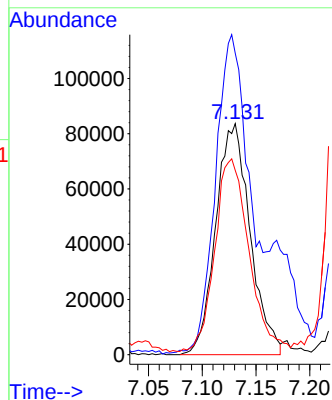
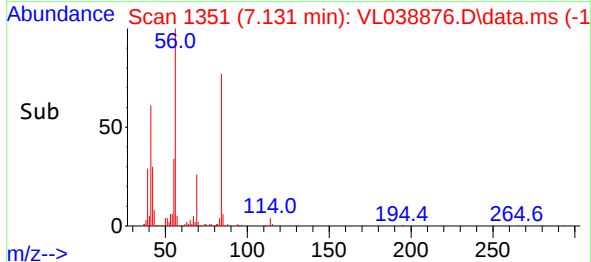
Instrument :
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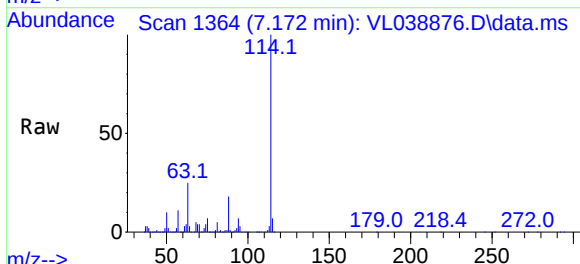
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Ion Ratio Lower Upper
84 100
56 171.0 114.4 171.6
41 82.3 69.0 103.4

Manual Integrations
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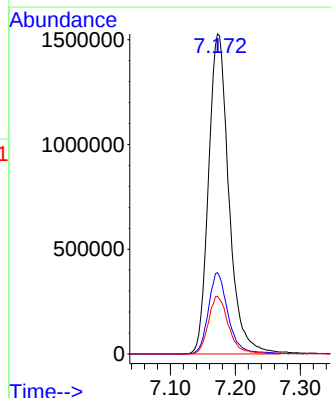
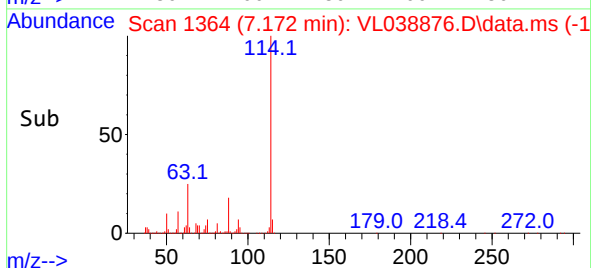
Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022

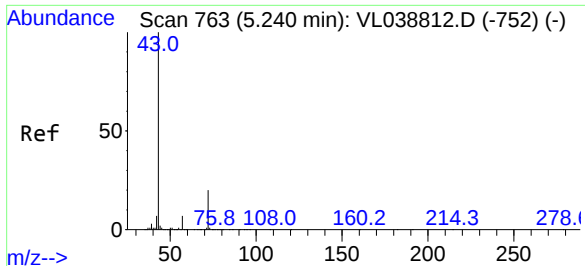


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.172 min Scan# 1364
Delta R.T. -0.000 min
Lab File: VL038876.D
Acq: 11 Apr 2022 19:00



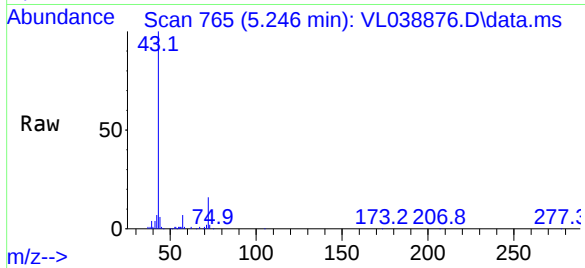
Tgt Ion:114 Resp: 3321478
Ion Ratio Lower Upper
114 100
63 24.9 19.8 29.8
88 17.9 14.2 21.4





#34
2-Butanone
Concen: 0.694 ppbv
RT: 5.246 min Scan# 763
Delta R.T. 0.006 min
Lab File: VL038876.D
Acq: 11 Apr 2022 19:00

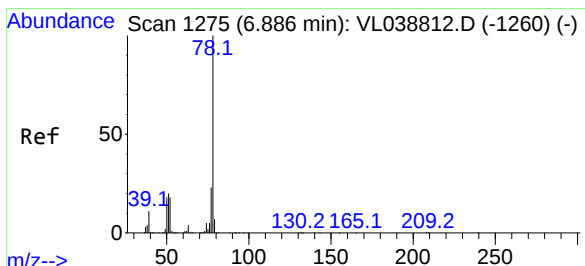
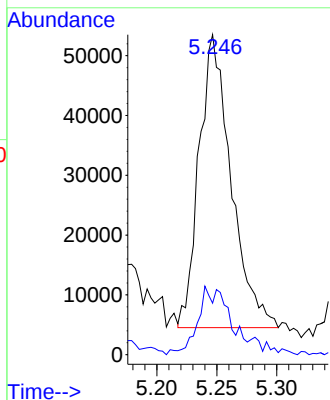
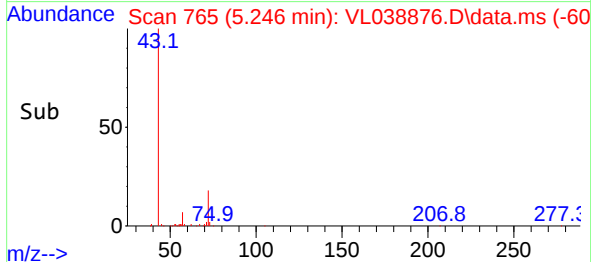
Instrument :
MSVOA_L
ClientSampleId :
IA-1DL



Tgt Ion: 43 Resp: 9112
Ion Ratio Lower Upper
43 100
72 26.2 16.9 25.3

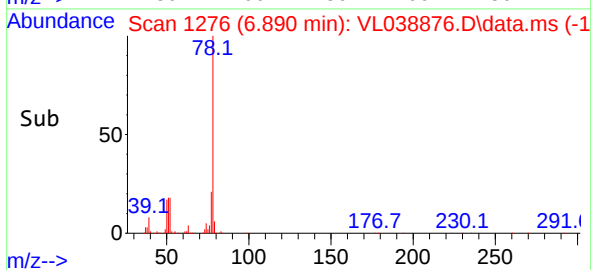
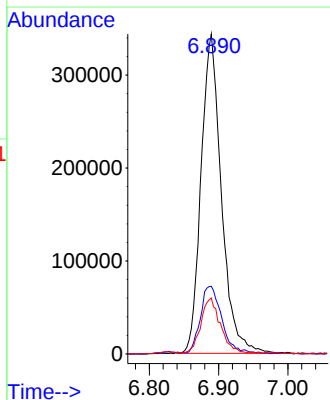
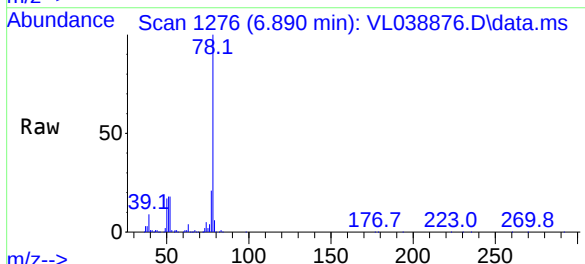
Manual Integrations
APPROVED

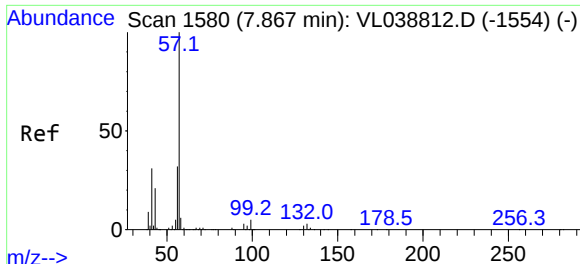
Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022



#36
Benzene
Concen: 2.315 ppbv
RT: 6.890 min Scan# 1276
Delta R.T. 0.003 min
Lab File: VL038876.D
Acq: 11 Apr 2022 19:00

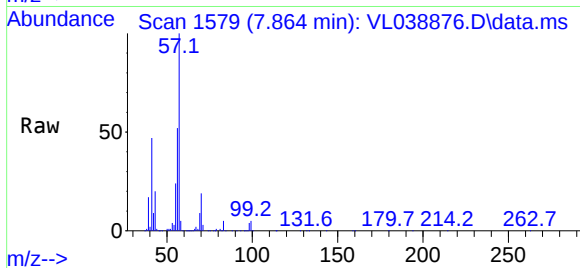
Tgt Ion: 78 Resp: 699396
Ion Ratio Lower Upper
78 100
77 20.6 18.2 27.2
50 17.1 14.0 21.0





#44
2,2,4-Trimethylpentane
Concen: 1.474 ppbv
RT: 7.864 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL038876.D
Acq: 11 Apr 2022 19:00

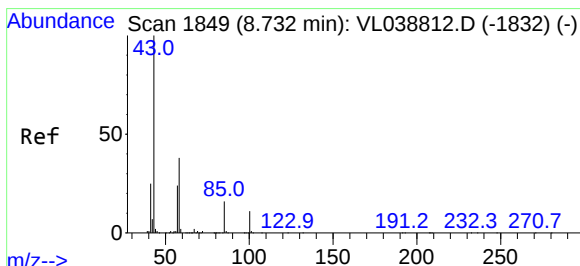
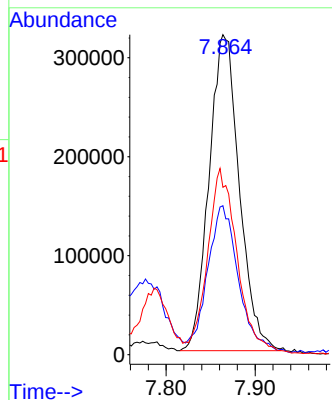
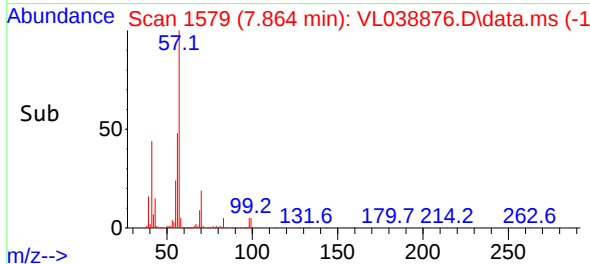
Instrument :
MSVOA_L
ClientSampleId :
IA-1DL



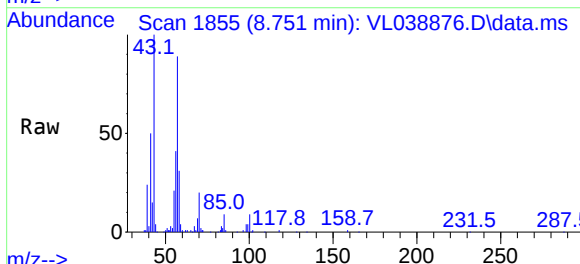
Tgt Ion: 57 Resp: 75398
Ion Ratio Lower Upper
57 100
41 47.7 25.0 37.4
56 57.9 25.3 37.9

Manual Integrations
APPROVED

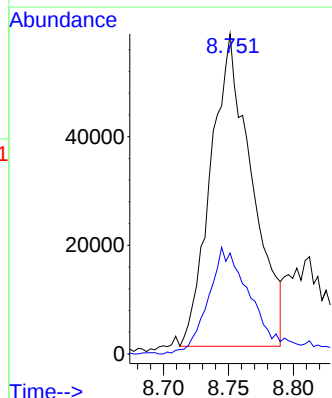
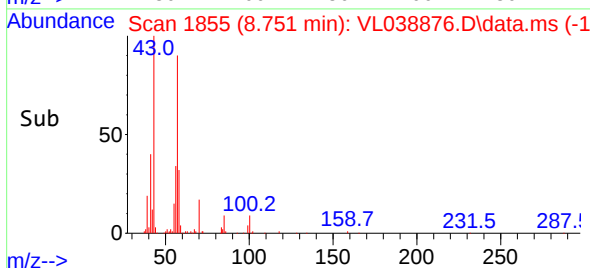
Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022

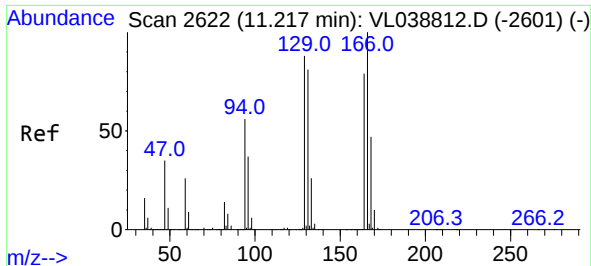


#50
4-Methyl-2-Pentanone
Concen: 0.428 ppbv
RT: 8.751 min Scan# 1855
Delta R.T. 0.019 min
Lab File: VL038876.D
Acq: 11 Apr 2022 19:00



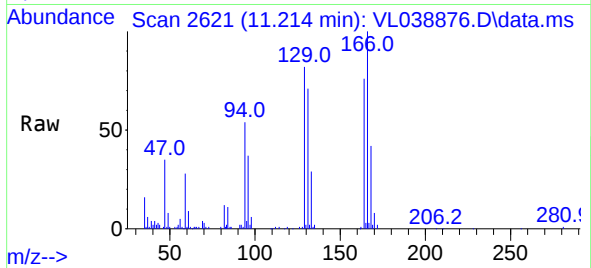
Tgt Ion: 43 Resp: 126451
Ion Ratio Lower Upper
43 100
58 40.2 29.0 43.6





#52
Tetrachloroethene
Concen: 0.798 ppbv
RT: 11.214 min Scan# 2621
Delta R.T. -0.003 min
Lab File: VL038876.D
Acq: 11 Apr 2022 19:00

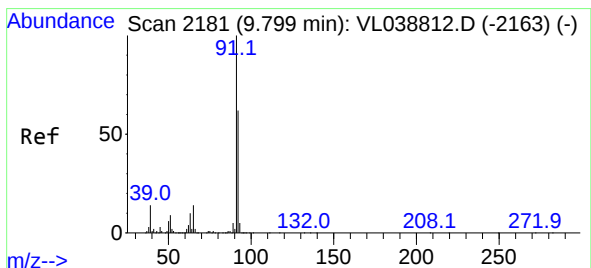
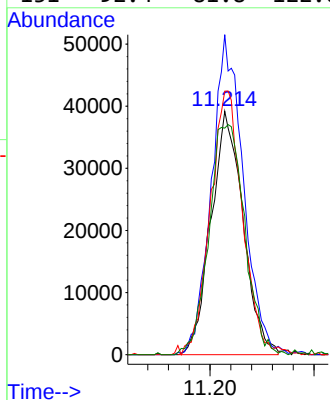
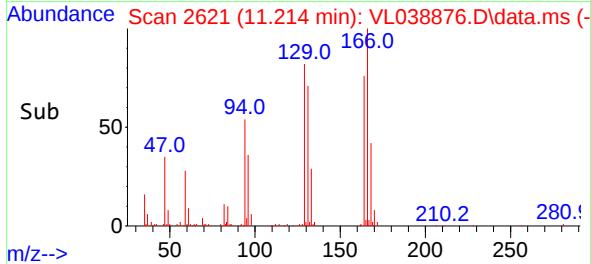
Instrument :
MSVOA_L
ClientSampleId :
IA-1DL



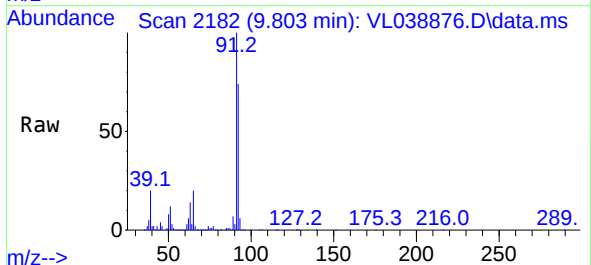
Tgt Ion:164 Resp: 8419
Ion Ratio Lower Upper
164 100
166 130.5 101.0 151.6
129 105.0 88.7 133.1
131 92.4 81.8 122.6

Manual Integrations
APPROVED

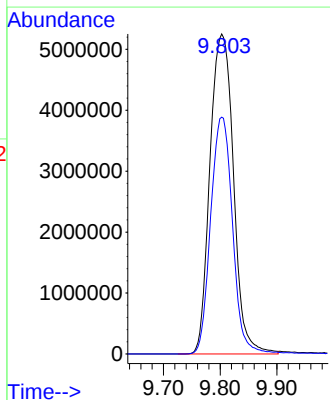
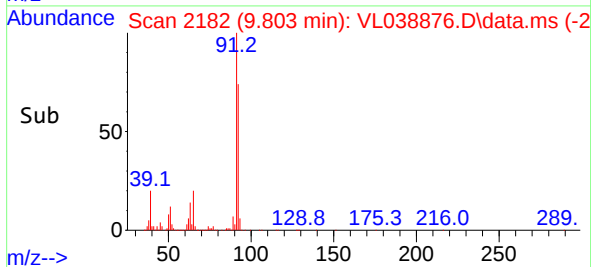
Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022

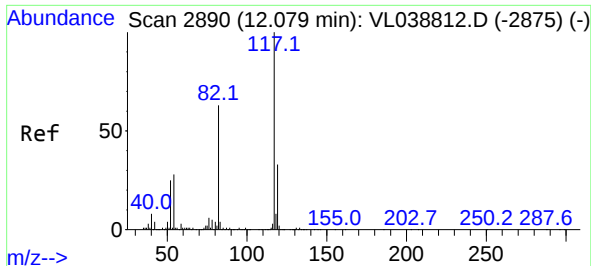


#53
Toluene
Concen: 43.443 ppbv
RT: 9.803 min Scan# 2182
Delta R.T. 0.003 min
Lab File: VL038876.D
Acq: 11 Apr 2022 19:00



Tgt Ion: 91 Resp:15153399
Ion Ratio Lower Upper
91 100
92 69.2 49.2 73.8





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.076 min Scan# 2890

Delta R.T. -0.003 min

Lab File: VL038876.D

Acq: 11 Apr 2022 19:00

Instrument :

MSVOA_L

ClientSampleId :

IA-1DL

Tgt Ion:117 Resp: 304926

Ion Ratio Lower Upper

117 100

82 64.9 53.0 79.6

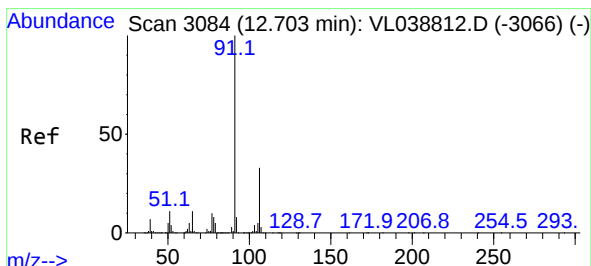
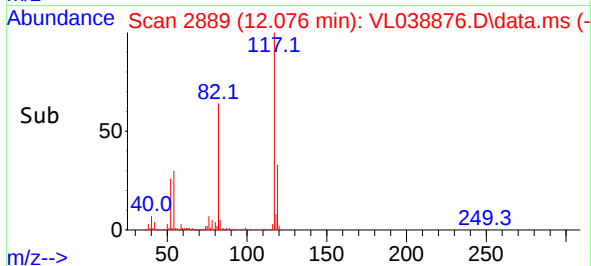
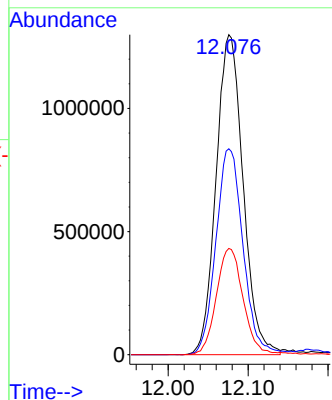
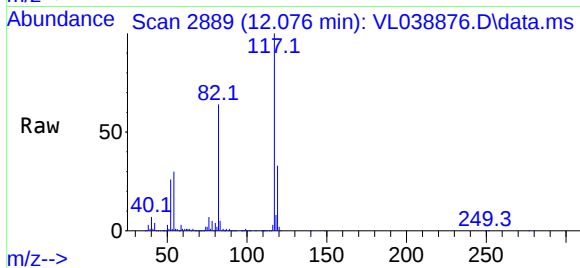
119 33.2 24.9 37.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/13/2022

Supervised By :Mahesh Dadoda 04/14/2022



#58

Ethyl Benzene

Concen: 1.781 ppbv

RT: 12.696 min Scan# 3082

Delta R.T. -0.007 min

Lab File: VL038876.D

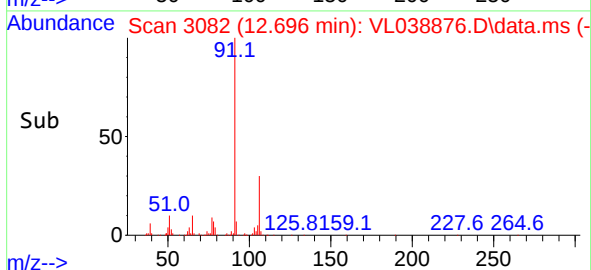
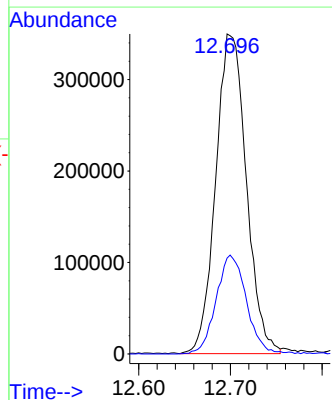
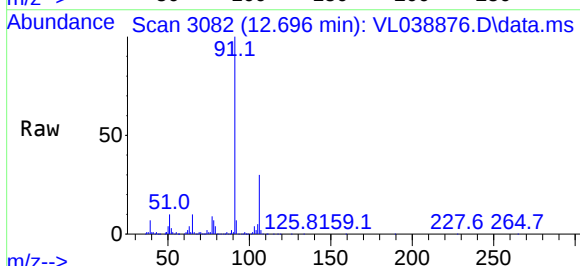
Acq: 11 Apr 2022 19:00

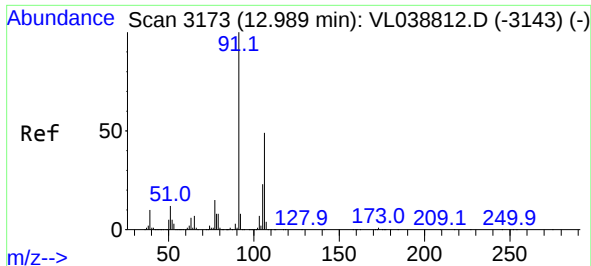
Tgt Ion: 91 Resp: 811579

Ion Ratio Lower Upper

91 100

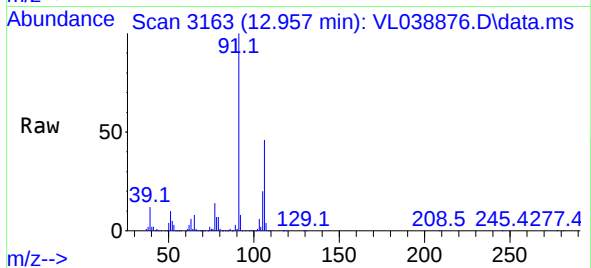
106 29.9 26.7 40.1





#59
m/p-Xylene
Concen: 5.516 ppbv
RT: 12.957 min Scan# 3115
Delta R.T. -0.032 min
Lab File: VL038876.D
Acq: 11 Apr 2022 19:00

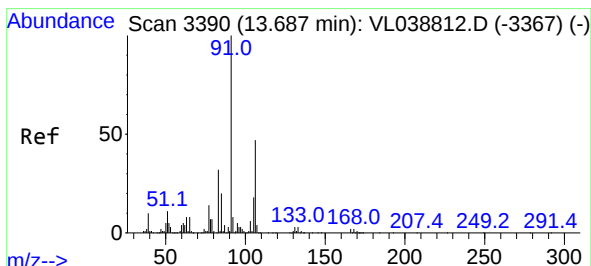
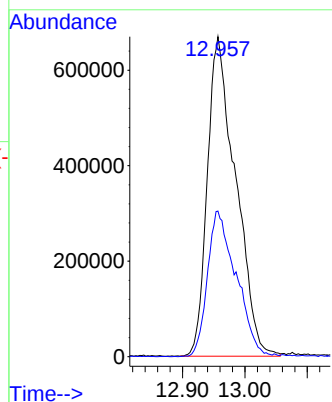
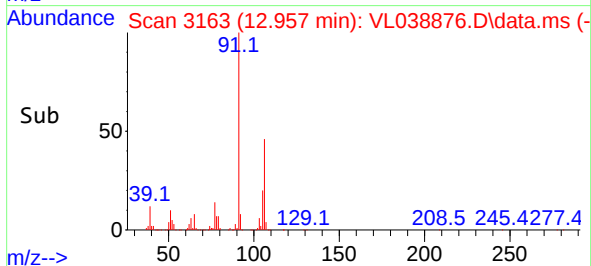
Instrument :
MSVOA_L
ClientSampleId :
IA-1DL



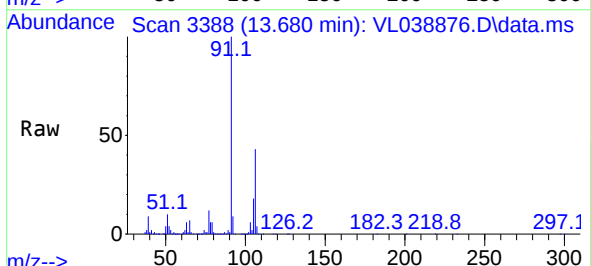
Tgt Ion: 91 Resp: 211155
Ion Ratio Lower Upper
91 100
106 46.8 37.1 55.7

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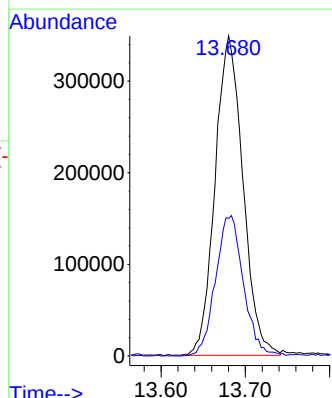
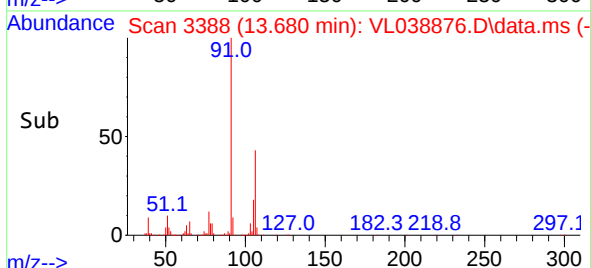
Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022

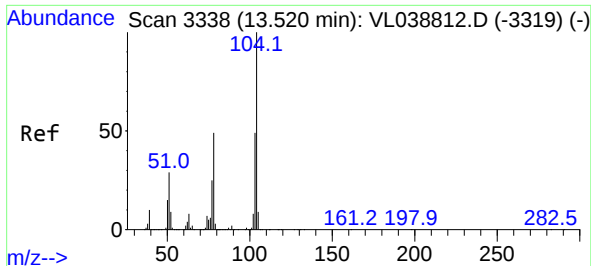


#60
o-Xylene
Concen: 2.236 ppbv
RT: 13.680 min Scan# 3388
Delta R.T. -0.007 min
Lab File: VL038876.D
Acq: 11 Apr 2022 19:00



Tgt Ion: 91 Resp: 800973
Ion Ratio Lower Upper
91 100
106 44.6 23.8 71.4





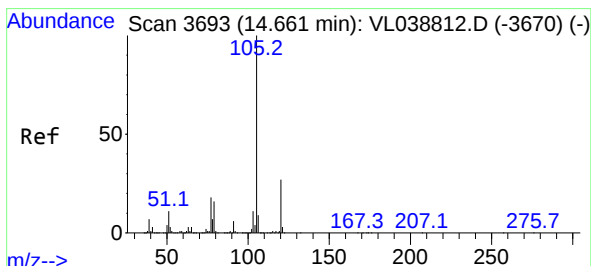
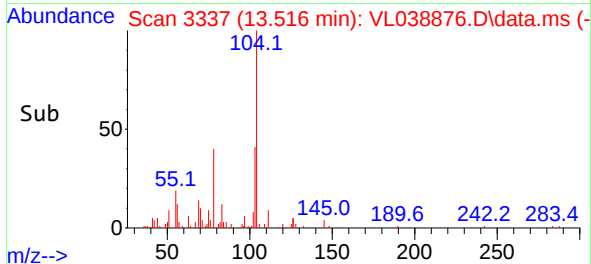
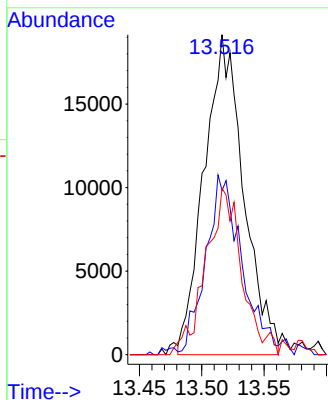
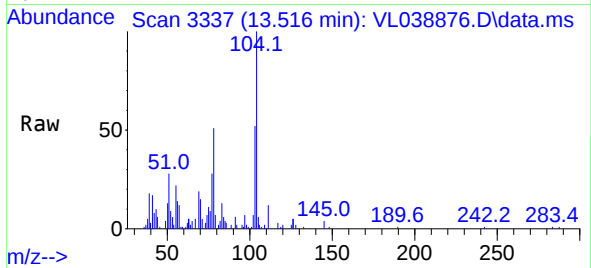
#61
Styrene
Concen: 0.193 ppbv
RT: 13.516 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL038876.D
Acq: 11 Apr 2022 19:00

Instrument :
MSVOA_L
Client Sample Id :
IA-1DL

Tgt Ion:104 Resp: 42050
Ion Ratio Lower Upper
104 100
78 54.1 40.5 60.7
103 49.8 39.0 58.4

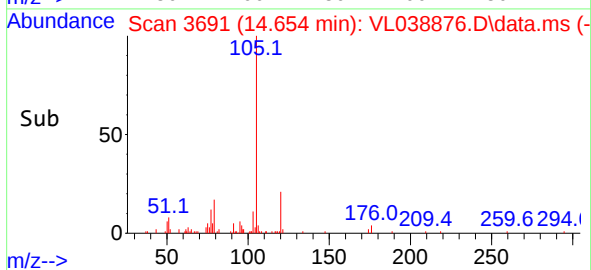
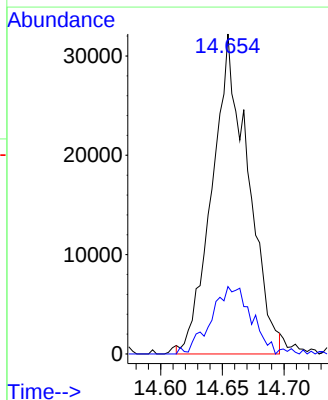
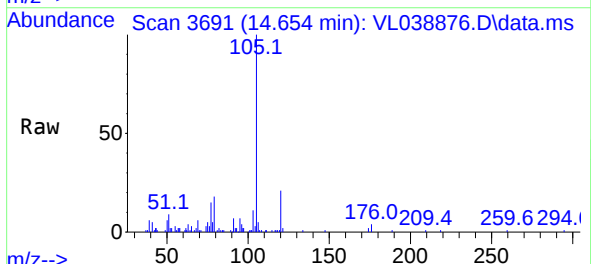
Manual Integrations
APPROVED

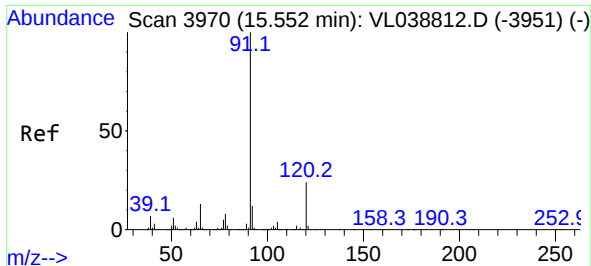
Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022



#62
Isopropylbenzene
Concen: 0.121 ppbv m
RT: 14.654 min Scan# 3691
Delta R.T. -0.007 min
Lab File: VL038876.D
Acq: 11 Apr 2022 19:00

Tgt Ion:105 Resp: 65163
Ion Ratio Lower Upper
105 100
120 24.3 21.8 32.8





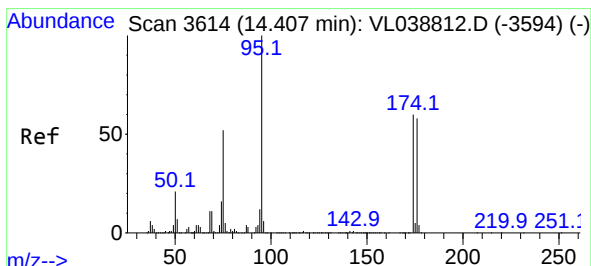
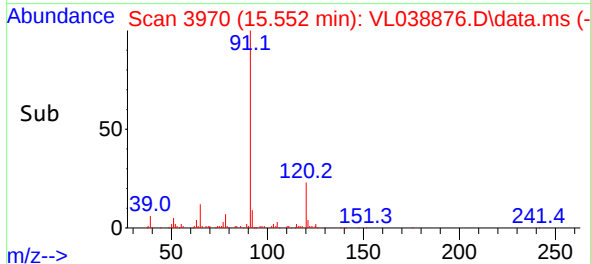
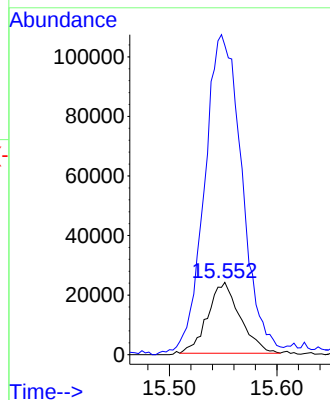
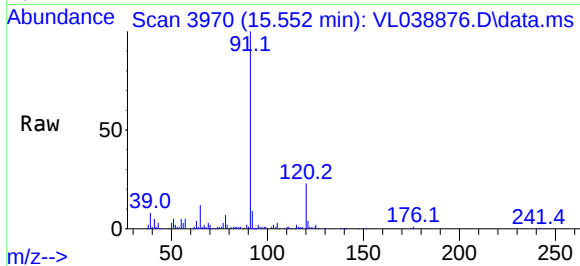
#64
n-propylbenzene
Concen: 0.357 ppbv
RT: 15.552 min Scan# 3970
Delta R.T. -0.000 min
Lab File: VL038876.D
Acq: 11 Apr 2022 19:00

Instrument :
MSVOA_L
ClientSampleId :
IA-1DL

Tgt Ion:120 Resp: 4984
Ion Ratio Lower Upper
120 100
91 536.1 360.6 540.8

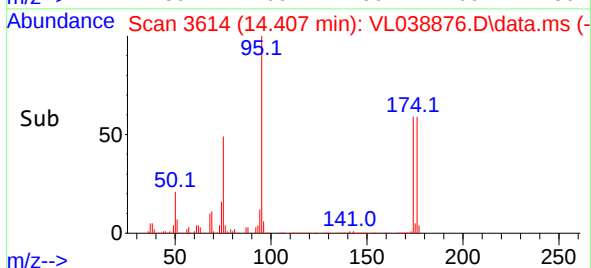
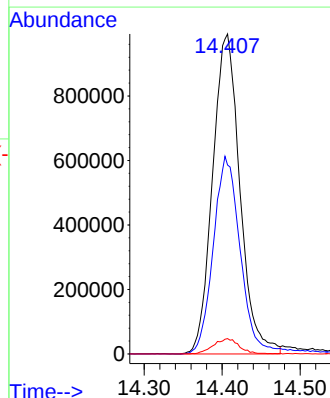
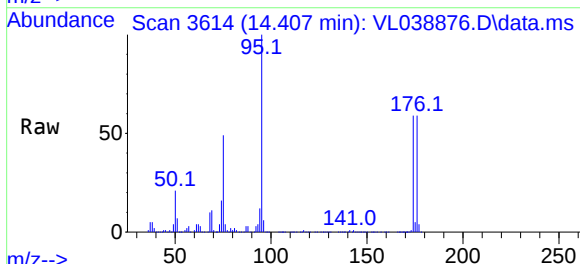
Manual Integrations
APPROVED

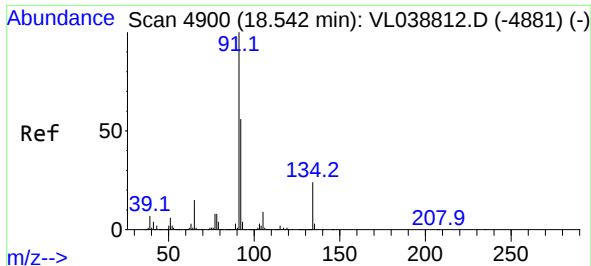
Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022



#68
1-Bromo-4-Fluorobenzene
Concen: 10.462 ppbv
RT: 14.407 min Scan# 3614
Delta R.T. -0.000 min
Lab File: VL038876.D
Acq: 11 Apr 2022 19:00

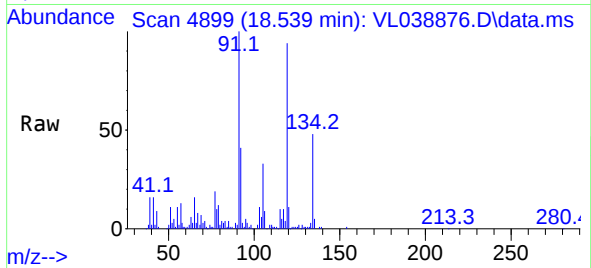
Tgt Ion: 95 Resp: 2419935
Ion Ratio Lower Upper
95 100
174 62.6 52.0 78.0
175 4.7 4.0 6.0





#70
n-Butylbenzene
Concen: 0.317 ppbv
RT: 18.539 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL038876.D
Acq: 11 Apr 2022 19:00

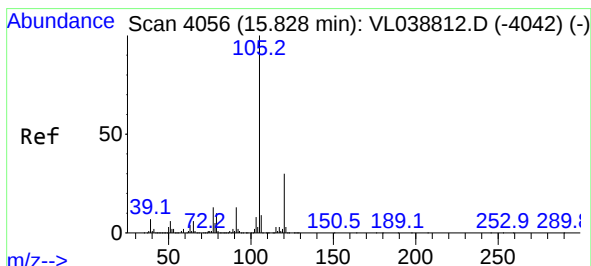
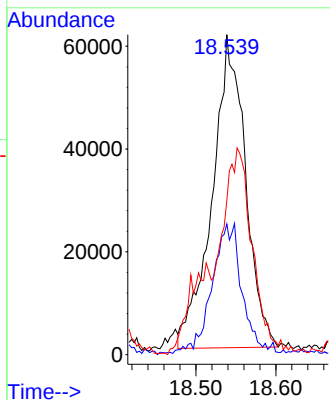
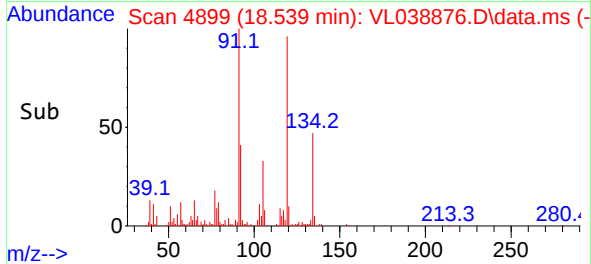
Instrument :
MSVOA_L
ClientSampleId :
IA-1DL



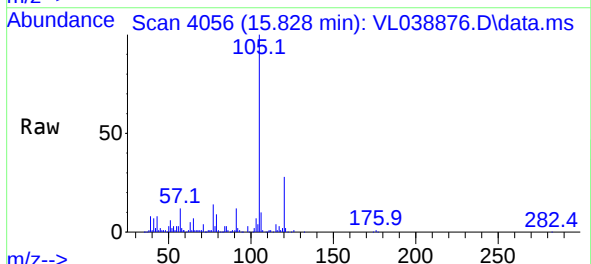
Tgt Ion: 91 Resp: 17532
Ion Ratio Lower Upper
91 100
92 39.2 44.6 66.8#
134 79.0 19.2 28.8#

Manual Integrations
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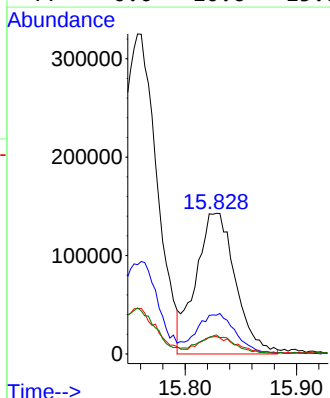
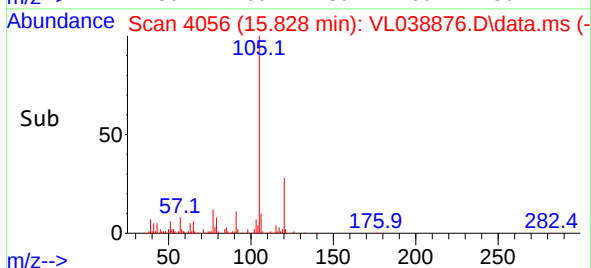
Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022

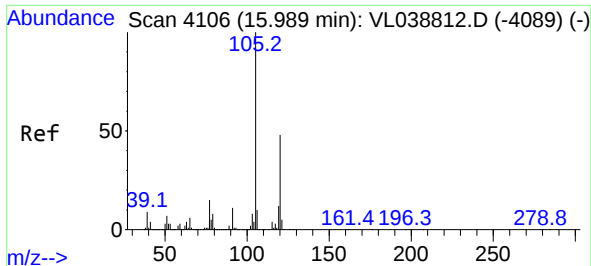


#72
4-Ethyltoluene
Concen: 0.827 ppbv m
RT: 15.828 min Scan# 4056
Delta R.T. -0.000 min
Lab File: VL038876.D
Acq: 11 Apr 2022 19:00



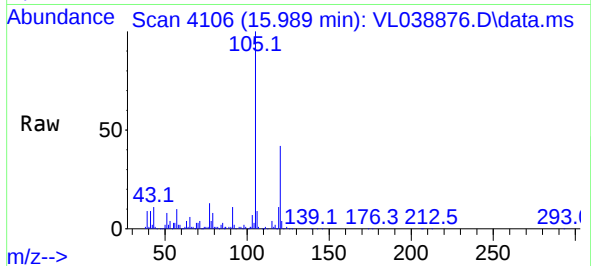
Tgt Ion:105 Resp: 353860
Ion Ratio Lower Upper
105 100
120 0.0 24.3 36.5#
91 0.0 9.4 14.2#
77 0.0 10.6 15.8#





#73
 1,3,5-Trimethylbenzene
 Concen: 0.773 ppbv
 RT: 15.989 min Scan# 4106
 Delta R.T. -0.000 min
 Lab File: VL038876.D
 Acq: 11 Apr 2022 19:00

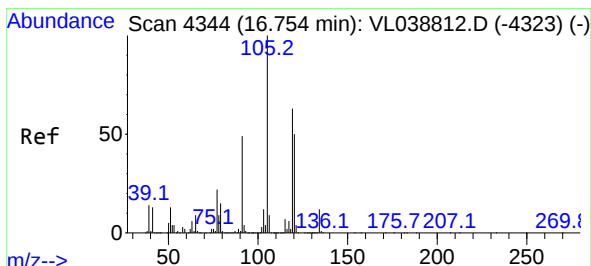
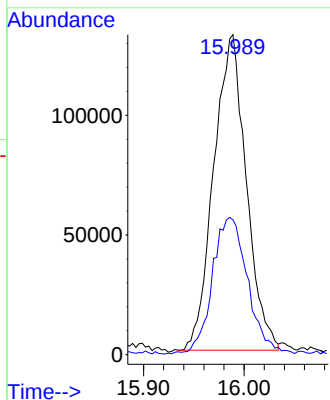
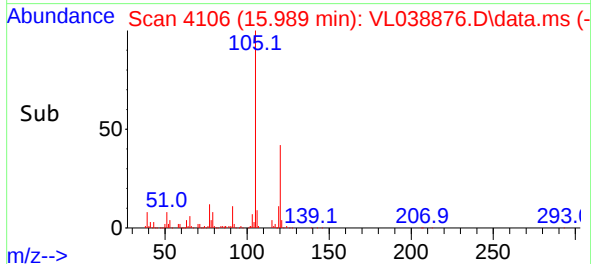
Instrument :
 MSVOA_L
 Client Sample Id :
 IA-1DL



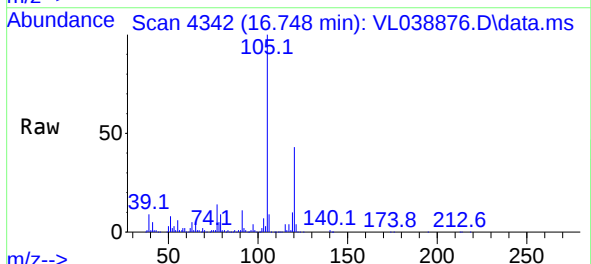
Tgt Ion:105 Resp: 296840
 Ion Ratio Lower Upper
 105 100
 120 41.8 38.7 58.1

Manual Integrations
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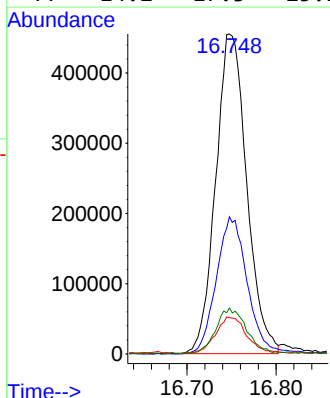
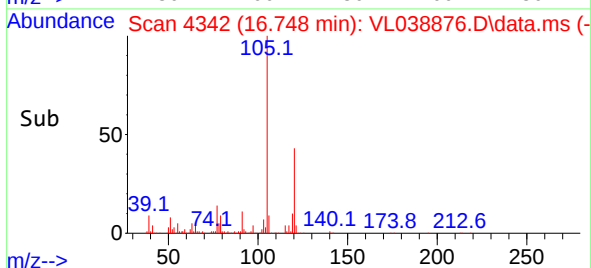
Reviewed By :Semsettin Yesilyurt 04/13/2022
 Supervised By :Mahesh Dadoda 04/14/2022

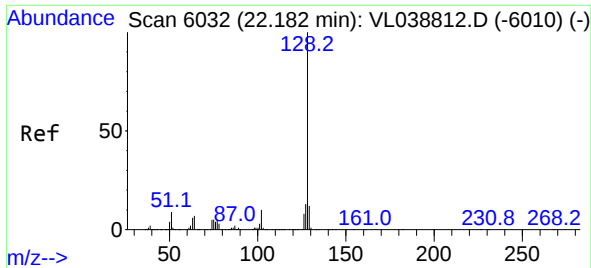


#74
 1,2,4-Trimethylbenzene
 Concen: 2.711 ppbv
 RT: 16.748 min Scan# 4342
 Delta R.T. -0.007 min
 Lab File: VL038876.D
 Acq: 11 Apr 2022 19:00



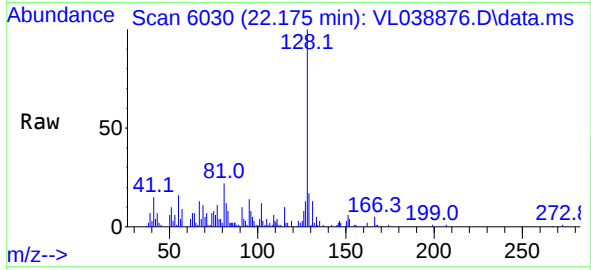
Tgt Ion:105 Resp: 1100985
 Ion Ratio Lower Upper
 105 100
 120 42.9 39.8 59.8
 91 11.1 39.4 59.0#
 77 14.2 17.3 25.9#





#79
Naphthalene
Concen: 0.389 ppbv m
RT: 22.175 min Scan# 6030
Delta R.T. -0.007 min
Lab File: VL038876.D
Acq: 11 Apr 2022 19:00

Instrument :
MSVOA_L
ClientSampleId :
IA-1DL



Tgt Ion:128 Resp: 118162
Ion Ratio Lower Upper
128 100
127 13.3 10.6 15.8
129 17.0 9.4 14.0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022

