

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041122\
 Data File : VL038881.D
 Acq On : 11 Apr 2022 22:18
 Operator : SY/AP
 Sample : N2332-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-4

Manual Integrations
 APPROVED

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

Quant Time: Apr 12 02:53:58 2022

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed 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	5.665	49	1167035	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.169	114	3137362	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.073	117	2877940	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.404	95	2315159	10.605	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	3.044	85	91701	0.554	ppbv	96
3) Chlorodifluoromethane	2.983	51	33914m	0.238	ppbv	
4) Chloromethane	3.134	50	44782	0.607	ppbv	99
9) Propene	3.018	41	740937	9.833	ppbv #	63
10) Heptane	8.115	43	471947	2.486	ppbv	100
11) Trichlorofluoromethane	3.951	101	35596m	0.268	ppbv	
13) Ethanol	3.597	45	613211	133.905	ppbv #	100
15) Acetone	3.848	43	5779817	49.745	ppbv	99
20) Methylene Chloride	4.346	84	103440	2.455	ppbv	94
25) Ethyl Acetate	5.665	43	2747139	9.318	ppbv #	92
30) Cyclohexane	7.128	84	44108	0.373	ppbv	86
34) 2-Butanone	5.237	43	455972	3.678	ppbv	95
36) Benzene	6.886	78	197862	0.693	ppbv	94
38) Trichloroethene	7.828	130	14978m	0.128	ppbv	
41) Tetrahydrofuran	6.050	42	27854	0.237	ppbv #	75
44) 2,2,4-Trimethylpentane	7.864	57	266795	0.552	ppbv #	48
50) 4-Methyl-2-Pentanone	8.742	43	133955	0.480	ppbv	96
52) Tetrachloroethene	11.217	164	87035	0.873	ppbv	98
53) Toluene	9.799	91	8073065	24.503	ppbv	98
58) Ethyl Benzene	12.700	91	547579	1.273	ppbv	90
59) m/p-Xylene	12.954	91	1703681	4.715	ppbv	99
60) o-Xylene	13.677	91	574449	1.699	ppbv	94
61) Styrene	13.516	104	194066	0.942	ppbv	99
64) n-propylbenzene	15.552	120	19123m	0.145	ppbv	
72) 4-Ethyltoluene	15.828	105	91516	0.227	ppbv #	94
73) 1,3,5-Trimethylbenzene	15.986	105	86392m	0.238	ppbv	
74) 1,2,4-Trimethylbenzene	16.751	105	285951	0.746	ppbv #	69
79) Naphthalene	22.185	128	30962m	0.108	ppbv	

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

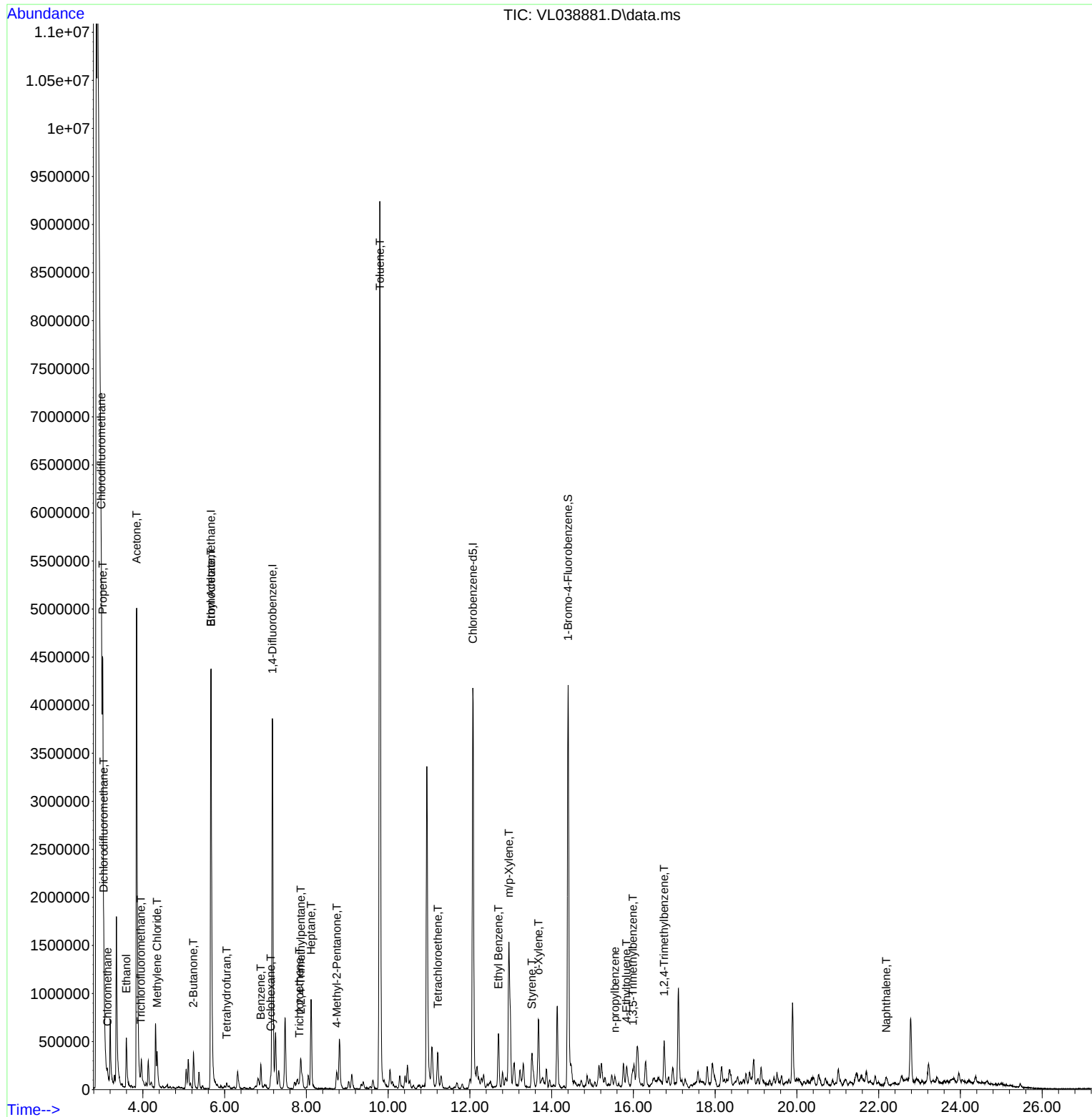
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041122\
Data File : VL038881.D
Acq On : 11 Apr 2022 22:18
Operator : SY/AP
Sample : N2332-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

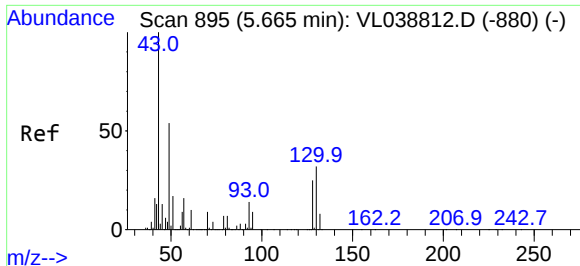
Instrument :
MSVOA_L
ClientSampleId :
IA-4

Quant Time: Apr 12 02:53:58 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

Manual Integrations
APPROVED

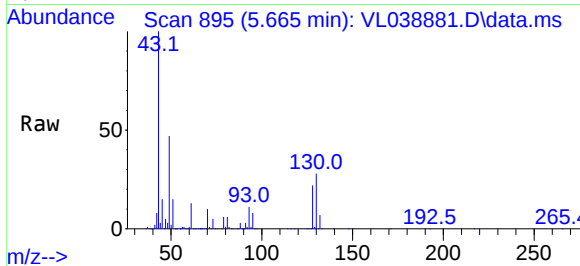
Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.665 min Scan# 80
Delta R.T. -0.000 min
Lab File: VL038881.D
Acq: 11 Apr 2022 22:18

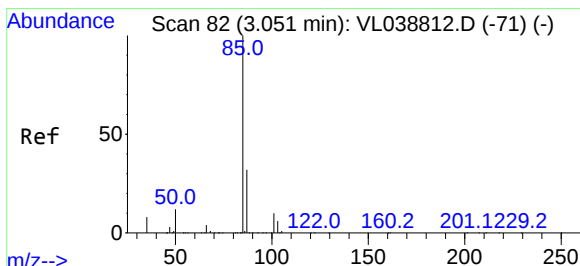
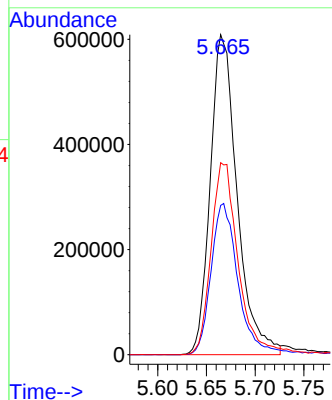
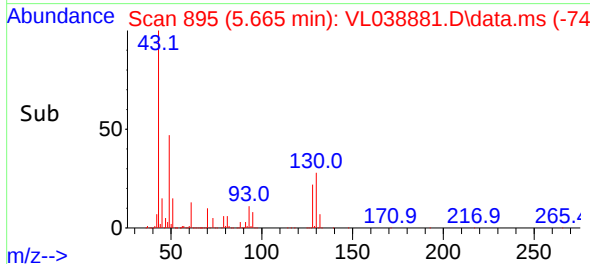
Instrument :
MSVOA_L
ClientSampleId :
IA-4



Tgt Ion: 49 Resp: 116703
Ion Ratio Lower Upper
49 100
128 48.7 24.1 72.3
130 62.4 30.9 92.8

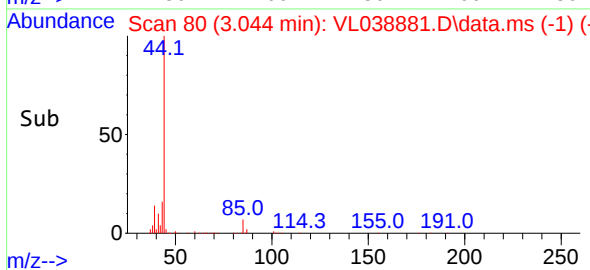
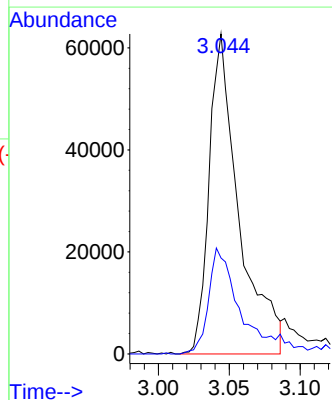
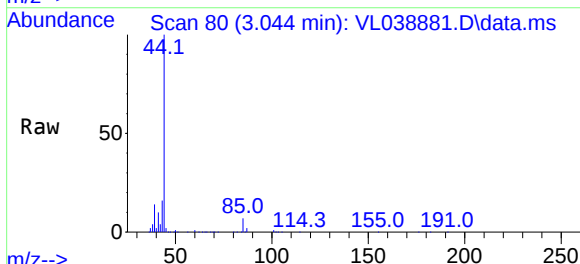
Manual Integrations
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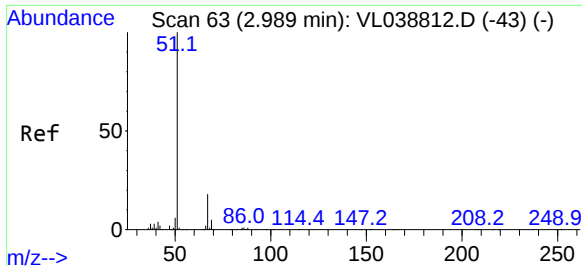
Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022



#2
Dichlorodifluoromethane
Concen: 0.554 ppbv
RT: 3.044 min Scan# 80
Delta R.T. -0.006 min
Lab File: VL038881.D
Acq: 11 Apr 2022 22:18

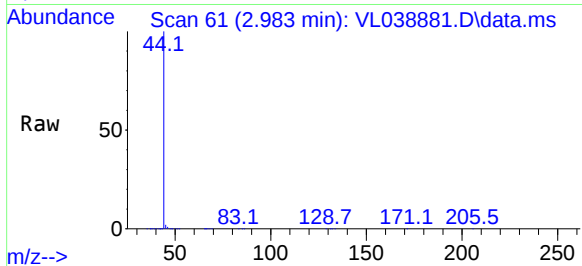
Tgt Ion: 85 Resp: 91701
Ion Ratio Lower Upper
85 100
87 30.0 25.9 38.9





#3
Chlorodifluoromethane
Concen: 0.238 ppbv m
RT: 2.983 min Scan# 61
Delta R.T. -0.006 min
Lab File: VL038881.D
Acq: 11 Apr 2022 22:18

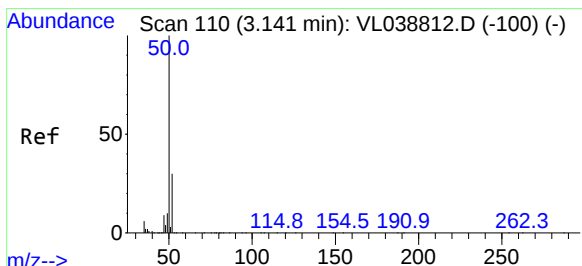
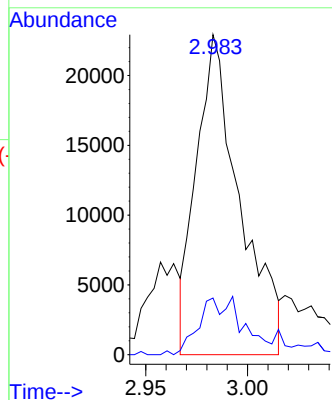
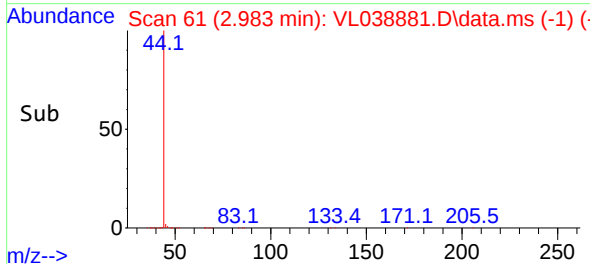
Instrument :
MSVOA_L
ClientSampleId :
IA-4



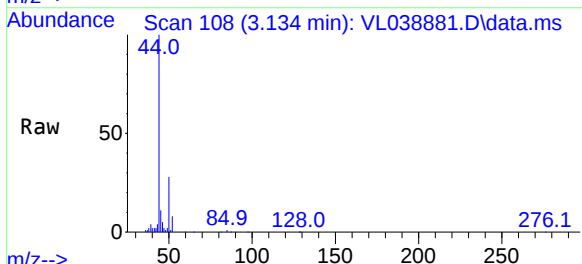
Tgt Ion: 51 Resp: 33914
Ion Ratio Lower Upper
51 100
67 21.7 13.4 20.0

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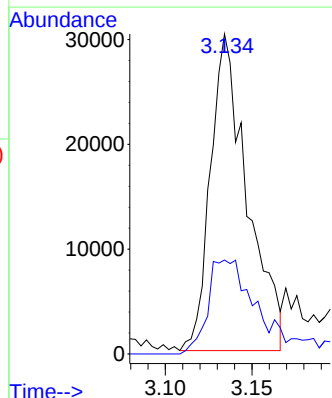
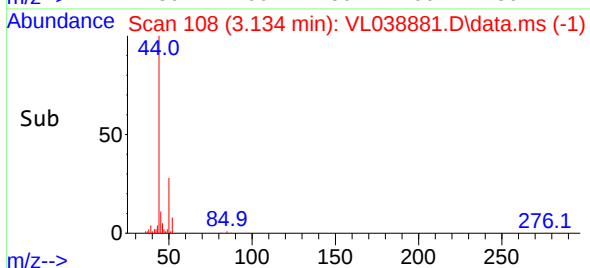
Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022

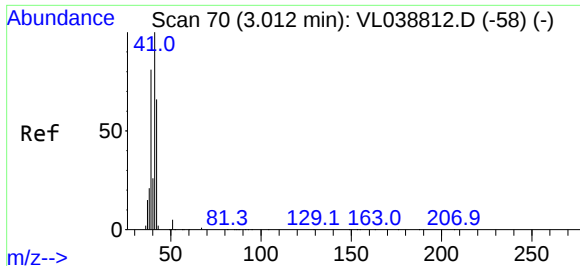


#4
Chloromethane
Concen: 0.607 ppbv
RT: 3.134 min Scan# 108
Delta R.T. -0.006 min
Lab File: VL038881.D
Acq: 11 Apr 2022 22:18



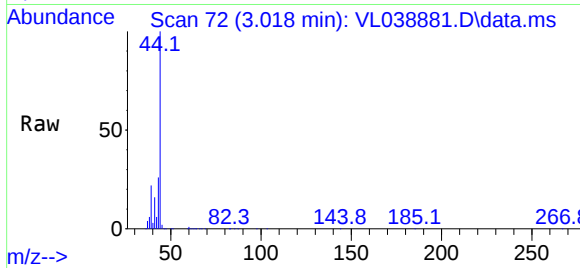
Tgt Ion: 50 Resp: 44782
Ion Ratio Lower Upper
50 100
52 29.7 24.3 36.5





#9
Propene
Concen: 9.833 ppbv
RT: 3.018 min Scan# 70
Delta R.T. 0.006 min
Lab File: VL038881.D
Acq: 11 Apr 2022 22:18

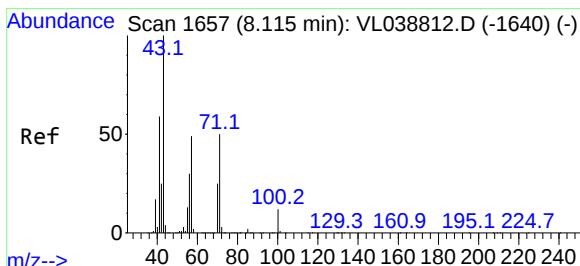
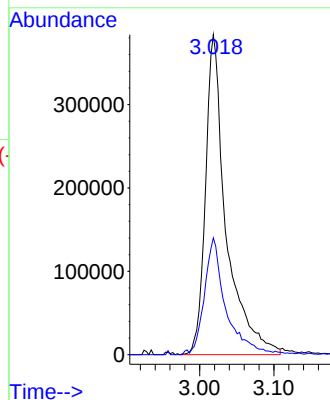
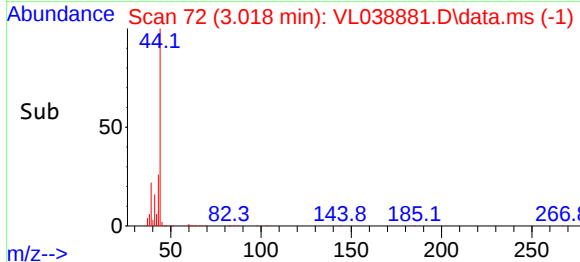
Instrument :
MSVOA_L
ClientSampleId :
IA-4



Tgt Ion: 41 Resp: 74093
Ion Ratio Lower Upper
41 100
42 38.3 54.2 81.4

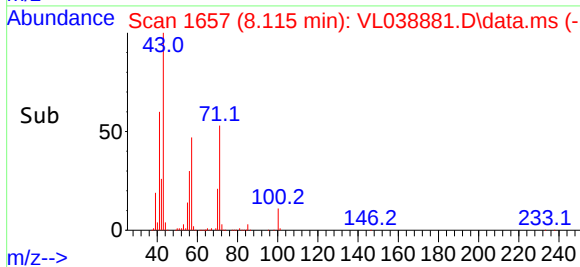
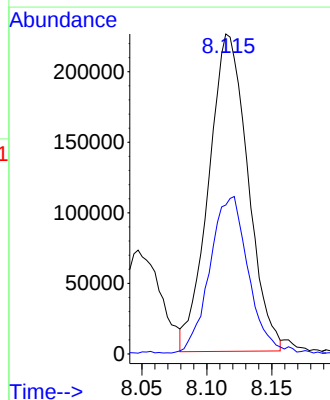
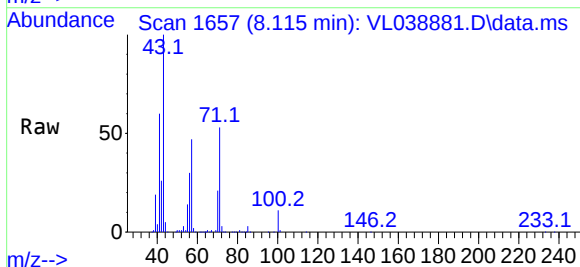
Manual Integrations
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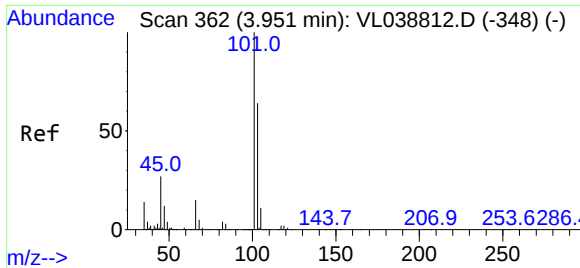
Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022



#10
Heptane
Concen: 2.486 ppbv
RT: 8.115 min Scan# 1657
Delta R.T. -0.000 min
Lab File: VL038881.D
Acq: 11 Apr 2022 22:18

Tgt Ion: 43 Resp: 471947
Ion Ratio Lower Upper
43 100
57 49.3 39.3 58.9





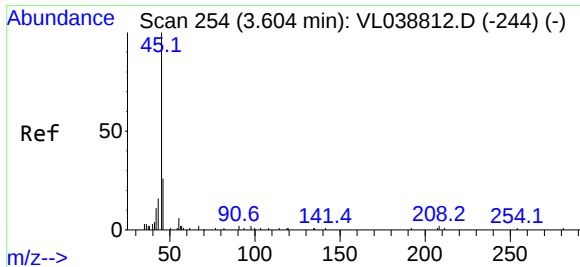
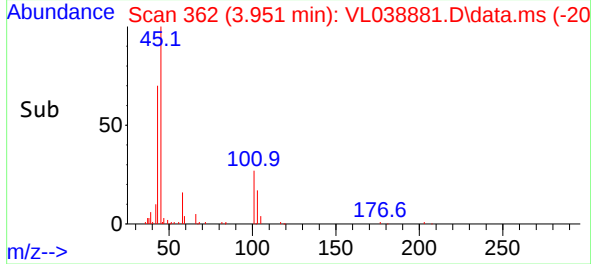
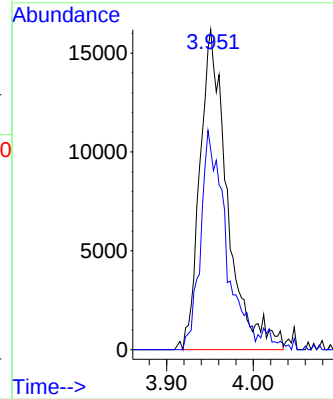
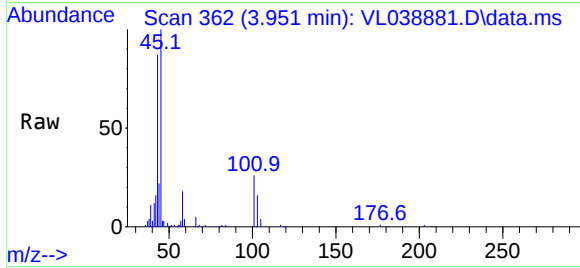
#11
Trichlorofluoromethane
Concen: 0.268 ppbv m
RT: 3.951 min Scan# 30
Delta R.T. -0.000 min
Lab File: VL038881.D
Acq: 11 Apr 2022 22:18

Instrument :
MSVOA_L
ClientSampleId :
IA-4

Tgt Ion:101 Resp: 35590
Ion Ratio Lower Upper
101 100
103 62.6 51.4 77.0

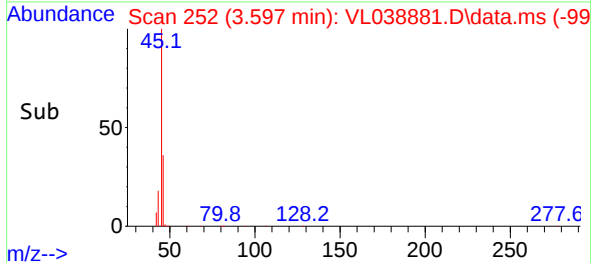
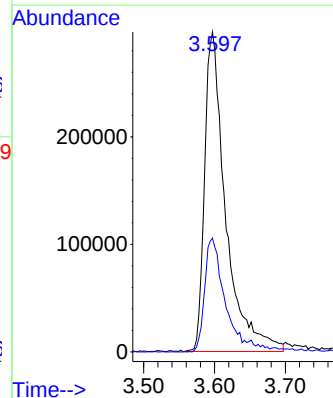
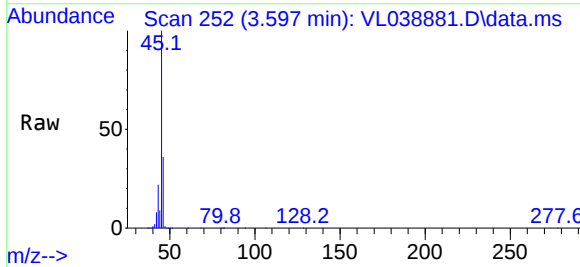
Manual Integrations
APPROVED

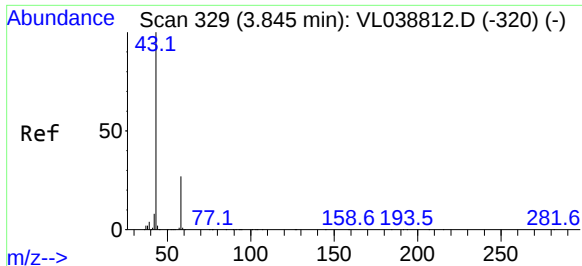
Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022



#13
Ethanol
Concen: 133.905 ppbv
RT: 3.597 min Scan# 252
Delta R.T. -0.006 min
Lab File: VL038881.D
Acq: 11 Apr 2022 22:18

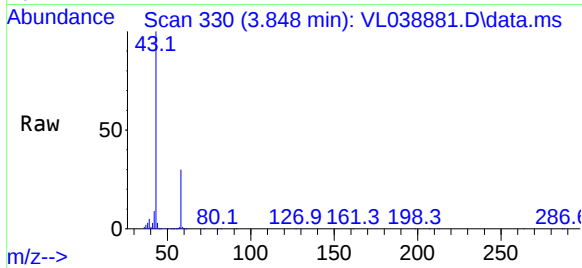
Tgt Ion: 45 Resp: 613211
Ion Ratio Lower Upper
45 100
46 36.5 0.0 0.0#





#15
Acetone
Concen: 49.745 ppbv
RT: 3.848 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL038881.D
Acq: 11 Apr 2022 22:18

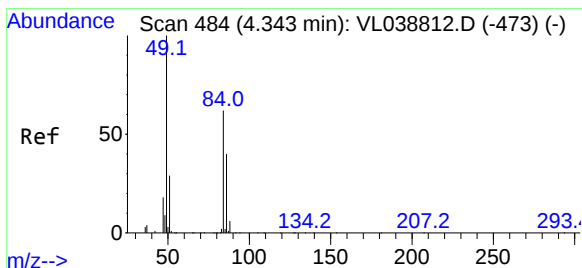
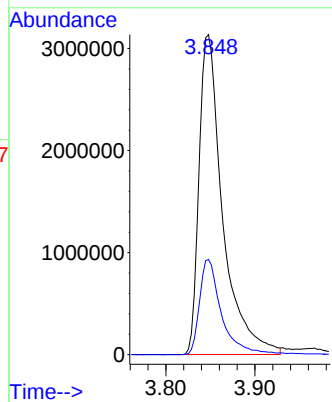
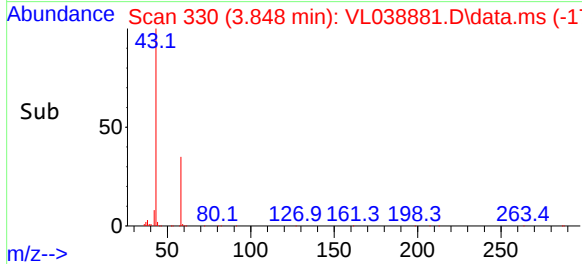
Instrument :
MSVOA_L
ClientSampleId :
IA-4



Tgt Ion: 43 Resp: 577981
Ion Ratio Lower Upper
43 100
58 28.4 22.5 33.7

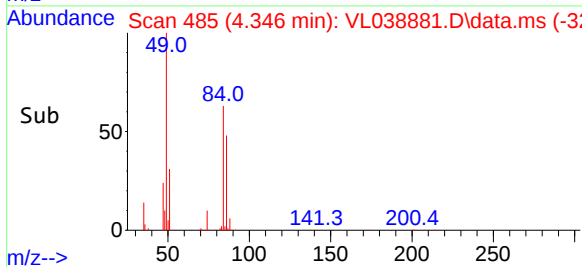
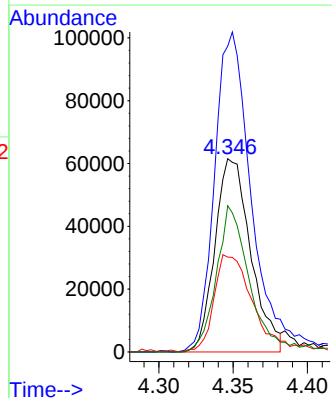
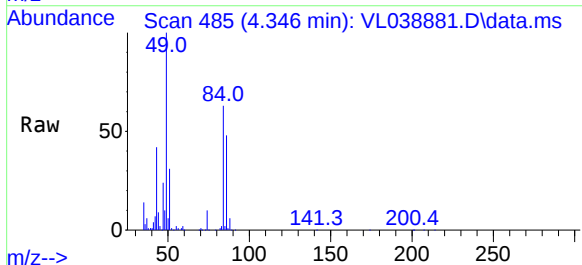
Manual Integrations
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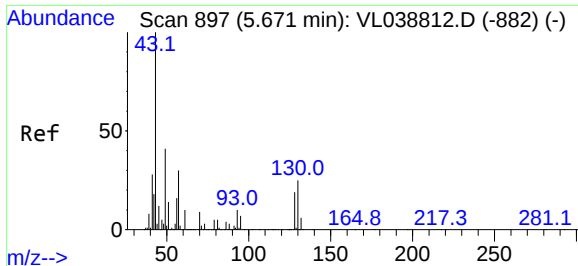
Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022



#20
Methylene Chloride
Concen: 2.455 ppbv
RT: 4.346 min Scan# 485
Delta R.T. 0.003 min
Lab File: VL038881.D
Acq: 11 Apr 2022 22:18

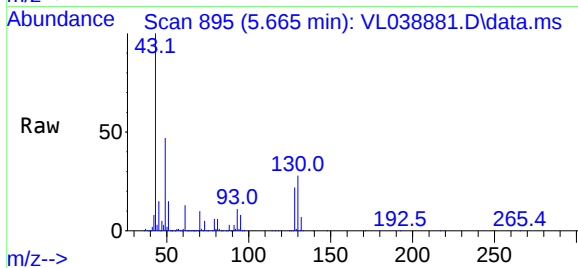
Tgt Ion: 84 Resp: 103440
Ion Ratio Lower Upper
84 100
49 157.9 129.4 194.0
51 49.1 37.4 56.2
86 75.7 51.4 77.2





#25
Ethyl Acetate
Concen: 9.318 ppbv
RT: 5.665 min Scan# 897
Delta R.T. -0.006 min
Lab File: VL038881.D
Acq: 11 Apr 2022 22:18

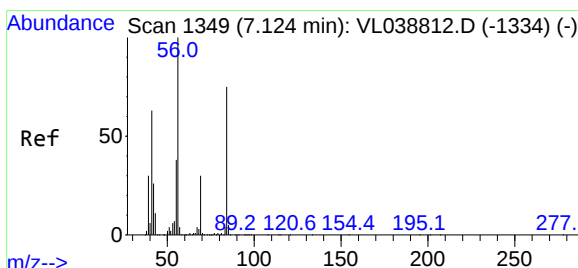
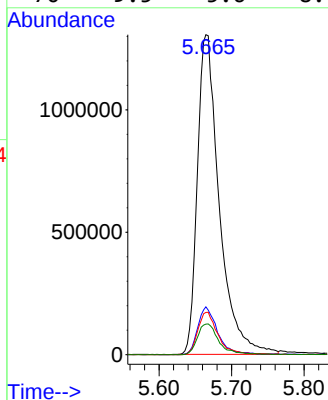
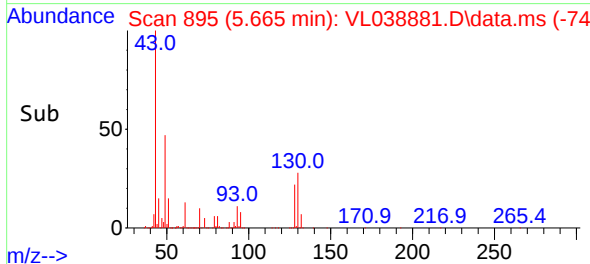
Instrument :
MSVOA_L
ClientSampleId :
IA-4



Tgt Ion: 43 Resp: 2747139
Ion Ratio Lower Upper
43 100
45 13.9 8.4 12.6
61 12.5 7.9 11.9
70 9.5 5.6 8.4

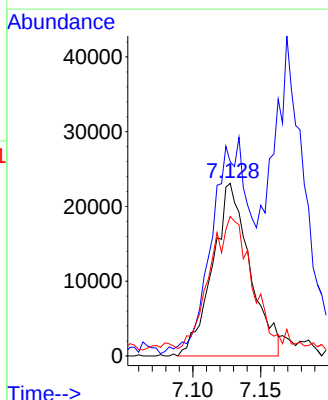
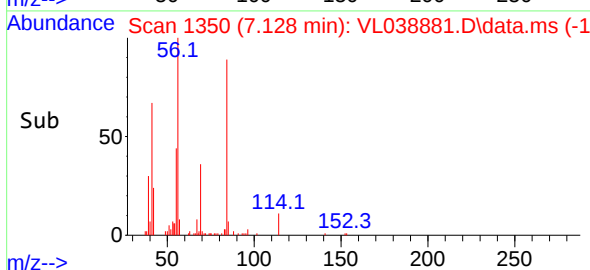
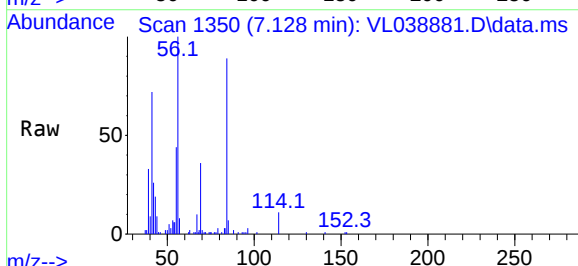
Manual Integrations
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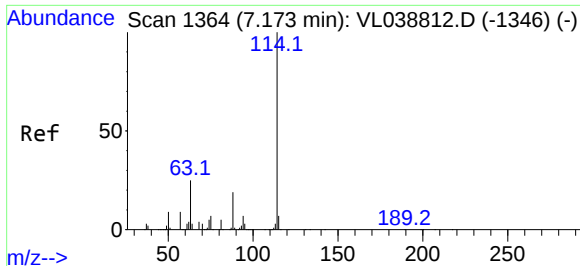
Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022



#30
Cyclohexane
Concen: 0.373 ppbv
RT: 7.128 min Scan# 1350
Delta R.T. 0.003 min
Lab File: VL038881.D
Acq: 11 Apr 2022 22:18

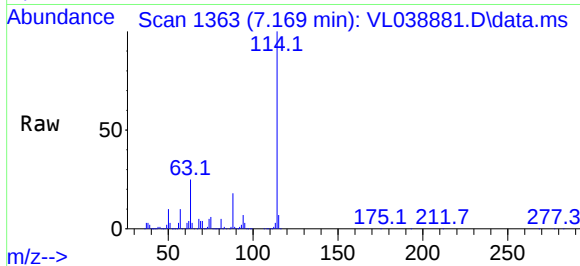
Tgt Ion: 84 Resp: 44108
Ion Ratio Lower Upper
84 100
56 118.0 114.4 171.6
41 89.6 69.0 103.4





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.169 min Scan# 114
Delta R.T. -0.003 min
Lab File: VL038881.D
Acq: 11 Apr 2022 22:18

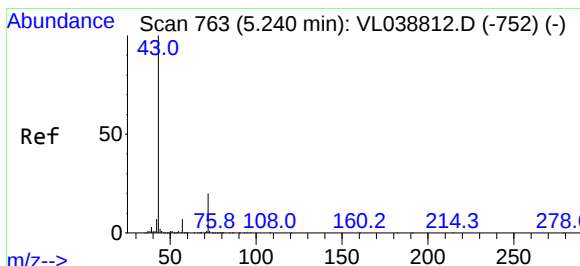
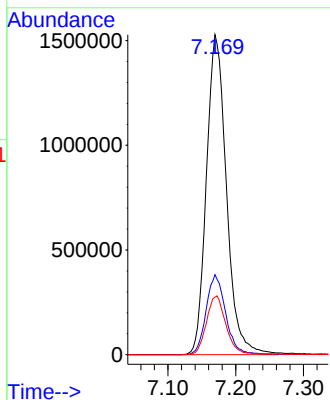
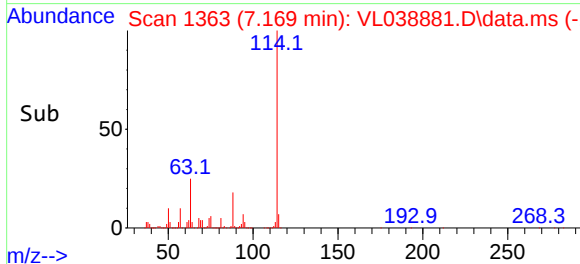
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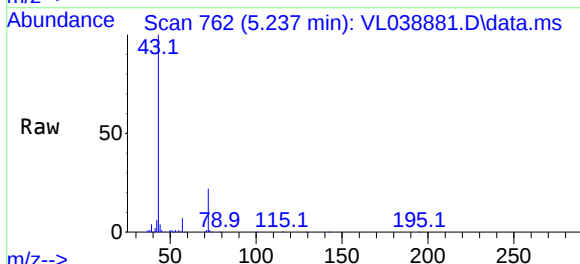
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Ion Ratio Lower Upper
114 100
63 24.6 19.8 29.8
88 18.1 14.2 21.4

Manual Integrations
APPROVED

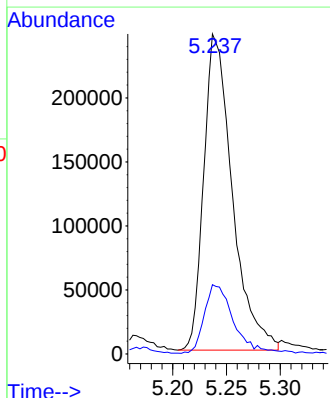
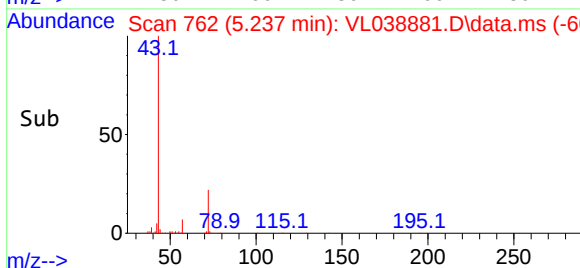
Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022

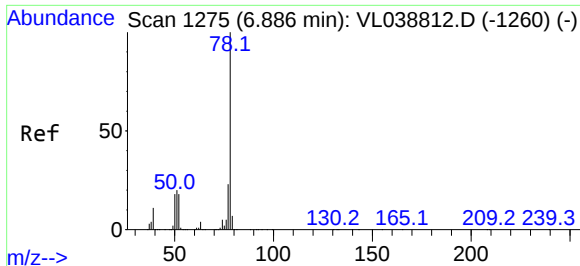


#34
2-Butanone
Concen: 3.678 ppbv
RT: 5.237 min Scan# 762
Delta R.T. -0.003 min
Lab File: VL038881.D
Acq: 11 Apr 2022 22:18



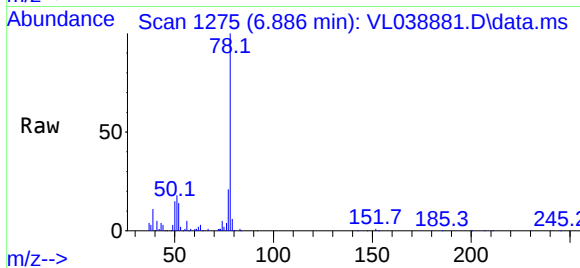
Tgt Ion: 43 Resp: 455972
Ion Ratio Lower Upper
43 100
72 23.2 16.9 25.3





#36
Benzene
Concen: 0.693 ppbv
RT: 6.886 min Scan# 1275
Delta R.T. -0.000 min
Lab File: VL038881.D
Acq: 11 Apr 2022 22:18

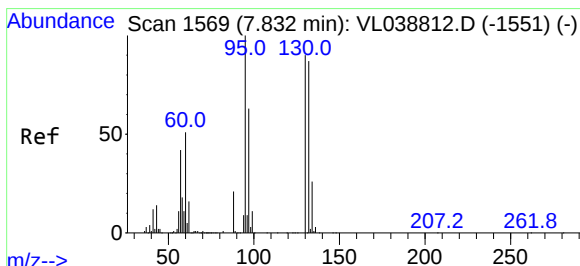
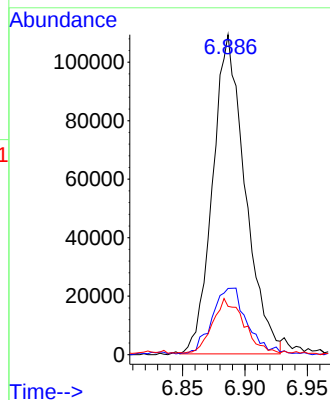
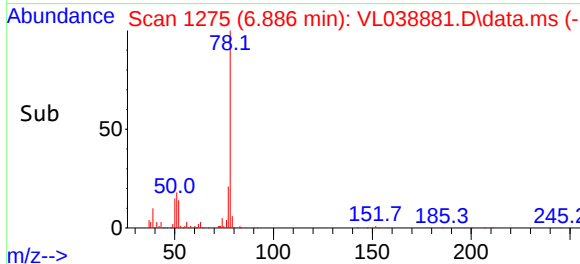
Instrument :
MSVOA_L
ClientSampleId :
IA-4



Tgt Ion: 78 Resp: 197862
Ion Ratio Lower Upper
78 100
77 20.3 18.2 27.2
50 14.6 14.0 21.0

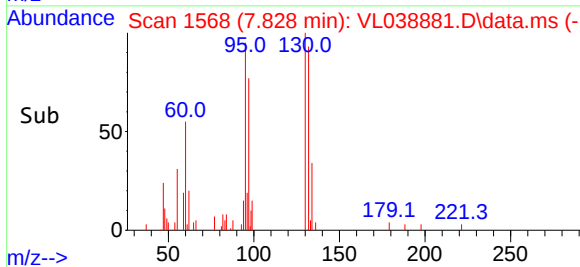
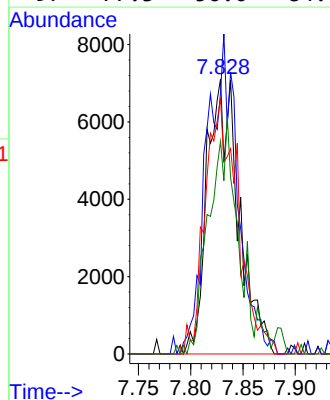
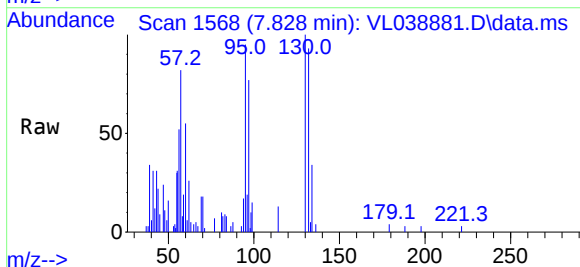
Manual Integrations
APPROVED

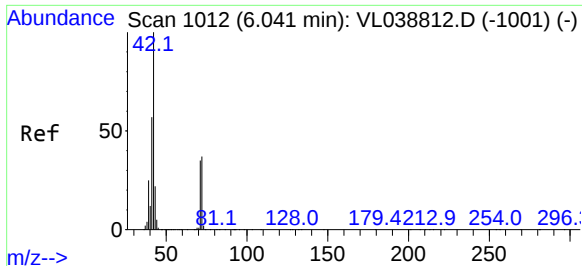
Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022



#38
Trichloroethene
Concen: 0.128 ppbv m
RT: 7.828 min Scan# 1568
Delta R.T. -0.003 min
Lab File: VL038881.D
Acq: 11 Apr 2022 22:18

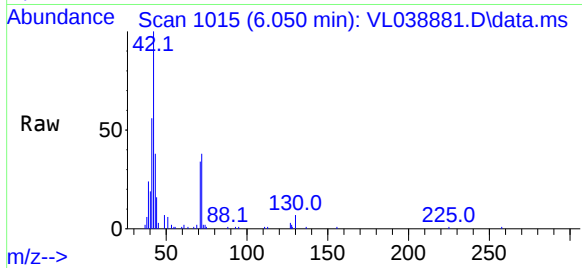
Tgt Ion:130 Resp: 14978
Ion Ratio Lower Upper
130 100
95 94.9 89.4 134.0
132 92.9 77.7 116.5
97 77.3 56.0 84.0





#41
Tetrahydrofuran
Concen: 0.237 ppbv
RT: 6.050 min Scan# 1012
Delta R.T. 0.010 min
Lab File: VL038881.D
Acq: 11 Apr 2022 22:18

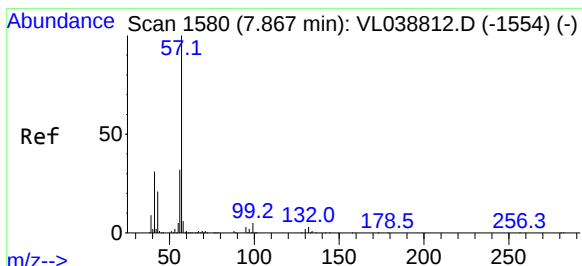
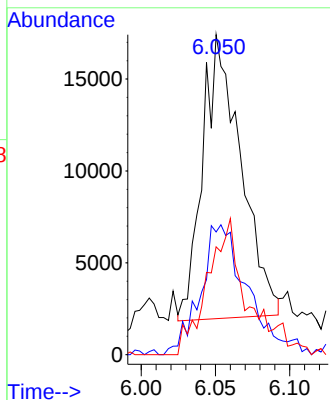
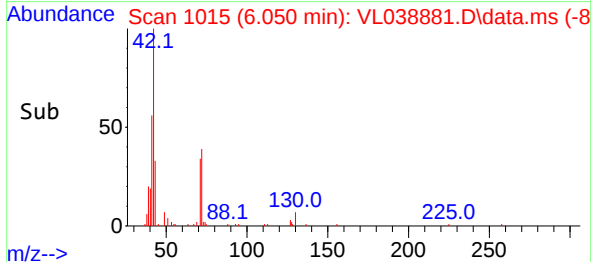
Instrument :
MSVOA_L
ClientSampleId :
IA-4



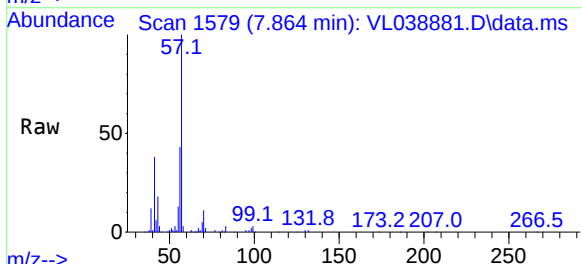
Tgt Ion: 42 Resp: 27854
Ion Ratio Lower Upper
42 100
72 55.8 31.4 47.0#
71 51.8 30.2 45.4#

Manual Integrations
APPROVED

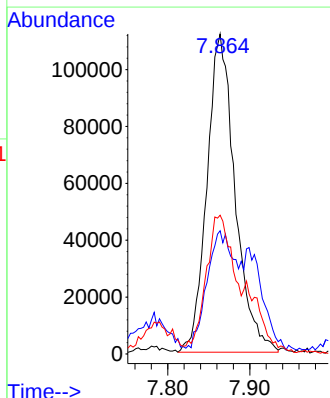
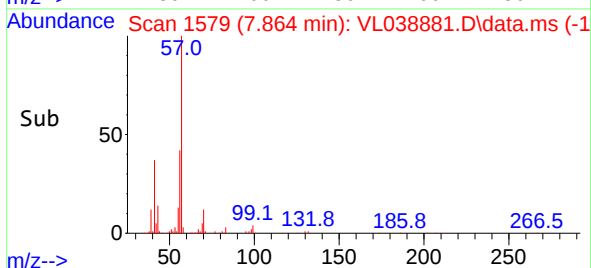
Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022

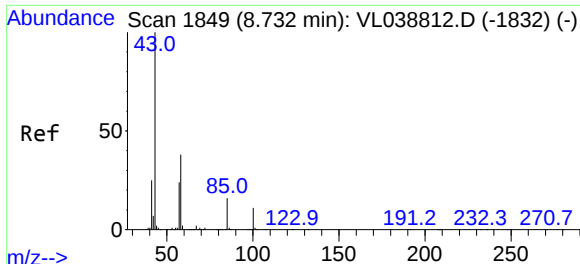


#44
2,2,4-Trimethylpentane
Concen: 0.552 ppbv
RT: 7.864 min Scan# 1579
Delta R.T. -0.003 min
Lab File: VL038881.D
Acq: 11 Apr 2022 22:18



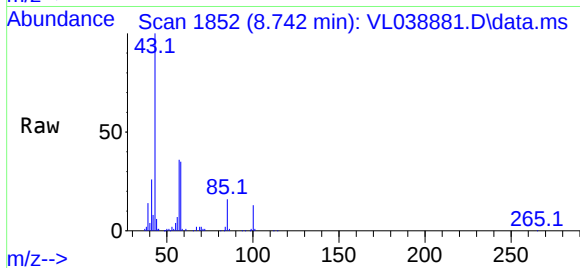
Tgt Ion: 57 Resp: 266795
Ion Ratio Lower Upper
57 100
41 64.4 25.0 37.4#
56 55.6 25.3 37.9#





#50
4-Methyl-2-Pentanone
Concen: 0.480 ppbv
RT: 8.742 min Scan# 1849
Delta R.T. 0.010 min
Lab File: VL038881.D
Acq: 11 Apr 2022 22:18

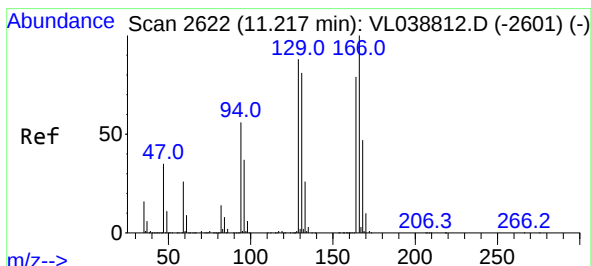
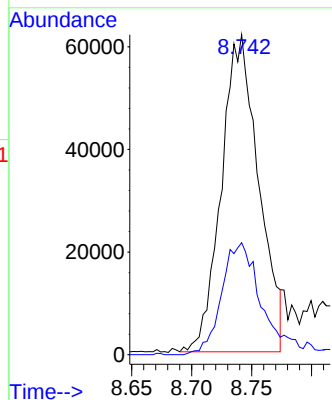
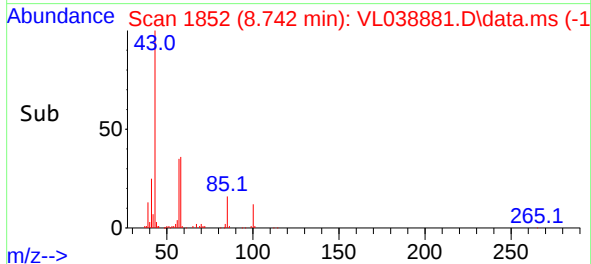
Instrument :
MSVOA_L
ClientSampleId :
IA-4



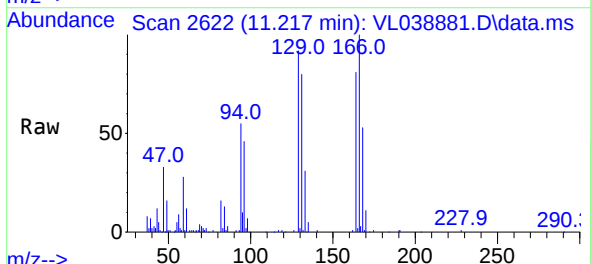
Tgt Ion: 43 Resp: 13395
Ion Ratio Lower Upper
43 100
58 38.9 29.0 43.6

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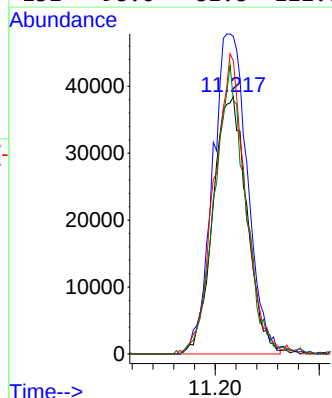
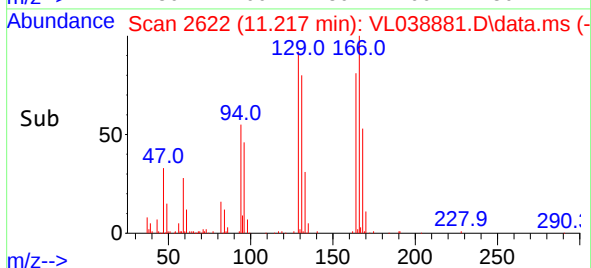
Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022

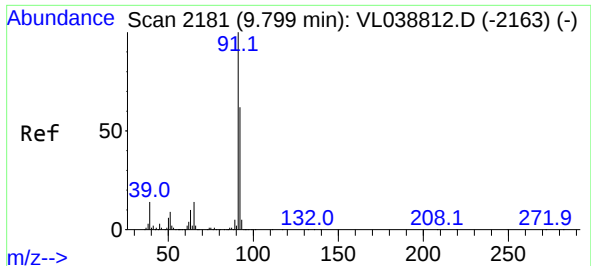


#52
Tetrachloroethene
Concen: 0.873 ppbv
RT: 11.217 min Scan# 2622
Delta R.T. -0.000 min
Lab File: VL038881.D
Acq: 11 Apr 2022 22:18



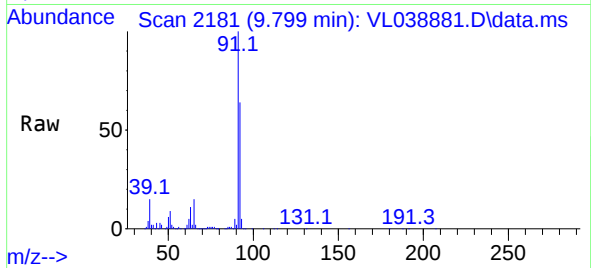
Tgt Ion:164 Resp: 87035
Ion Ratio Lower Upper
164 100
166 123.5 101.0 151.6
129 112.6 88.7 133.1
131 98.6 81.8 122.6





#53
Toluene
Concen: 24.503 ppbv
RT: 9.799 min Scan# 2181
Delta R.T. -0.000 min
Lab File: VL038881.D
Acq: 11 Apr 2022 22:18

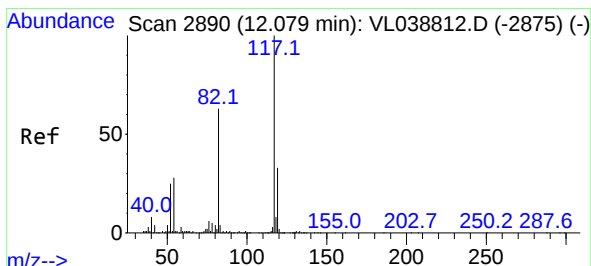
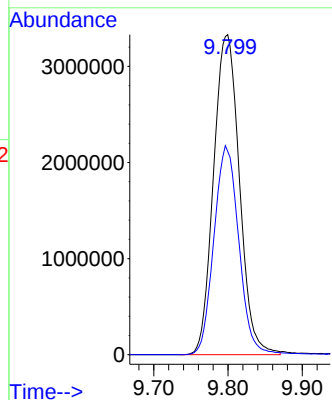
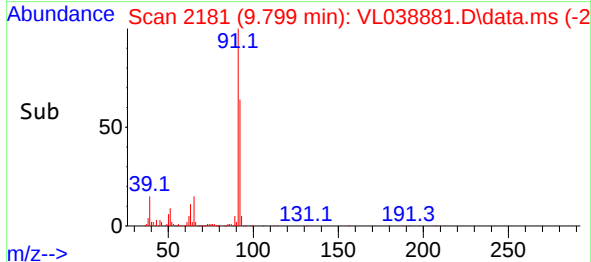
Instrument :
MSVOA_L
ClientSampleId :
IA-4



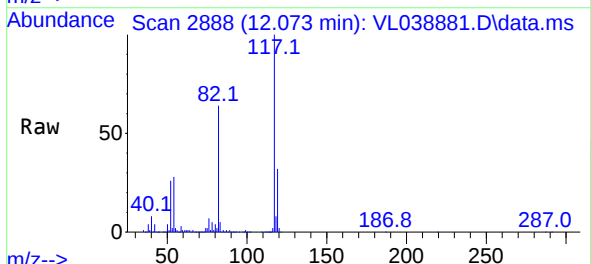
Tgt Ion: 91 Resp: 807306
Ion Ratio Lower Upper
91 100
92 63.4 49.2 73.8

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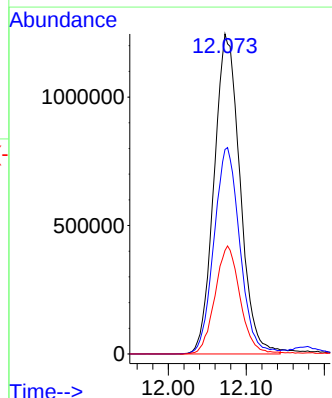
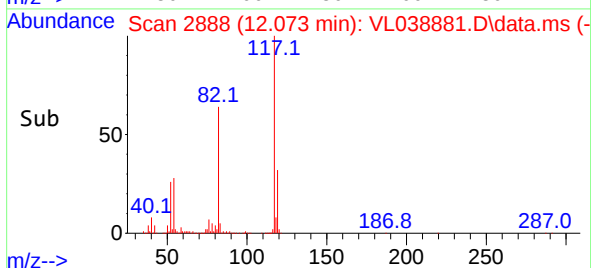
Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022

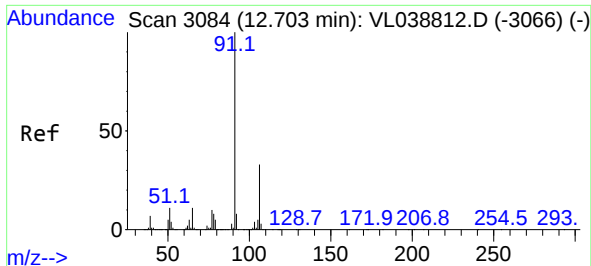


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.073 min Scan# 2888
Delta R.T. -0.006 min
Lab File: VL038881.D
Acq: 11 Apr 2022 22:18



Tgt Ion:117 Resp: 2877940
Ion Ratio Lower Upper
117 100
82 64.8 53.0 79.6
119 33.0 24.9 37.3





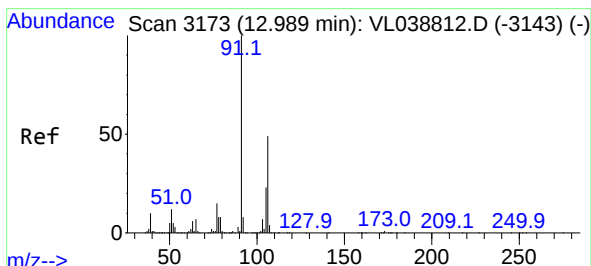
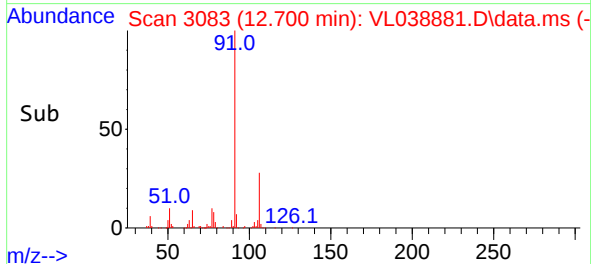
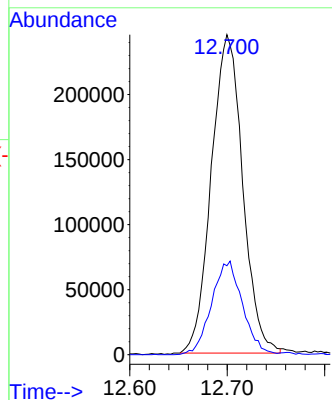
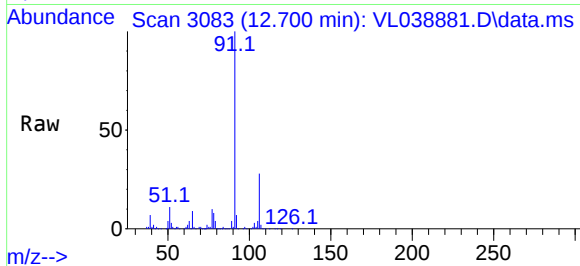
#58
Ethyl Benzene
Concen: 1.273 ppbv
RT: 12.700 min Scan# 3084
Delta R.T. -0.003 min
Lab File: VL038881.D
Acq: 11 Apr 2022 22:18

Instrument :
MSVOA_L
ClientSampleId :
IA-4

Tgt Ion: 91 Resp: 547579
Ion Ratio Lower Upper
91 100
106 27.9 26.7 40.1

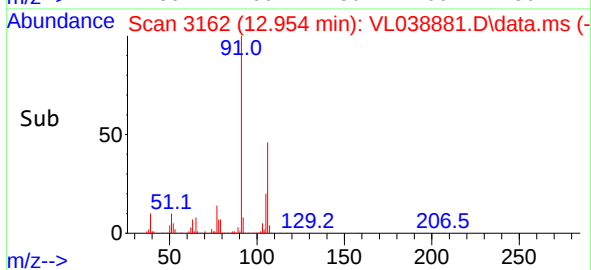
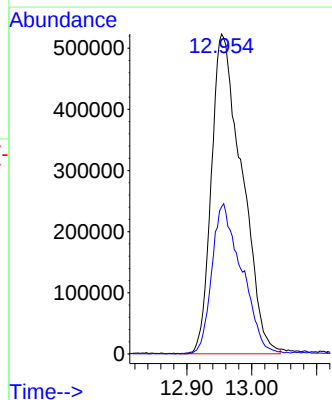
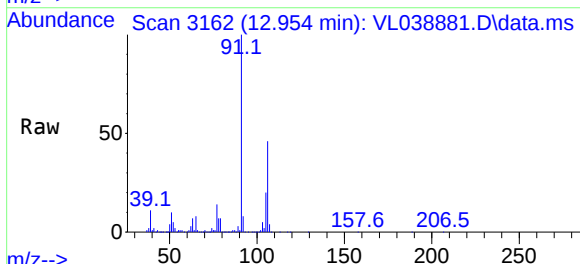
Manual Integrations
APPROVED

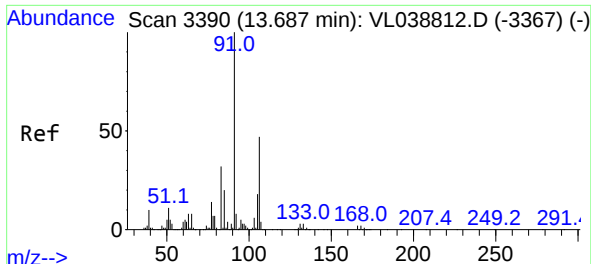
Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022



#59
m/p-Xylene
Concen: 4.715 ppbv
RT: 12.954 min Scan# 3162
Delta R.T. -0.035 min
Lab File: VL038881.D
Acq: 11 Apr 2022 22:18

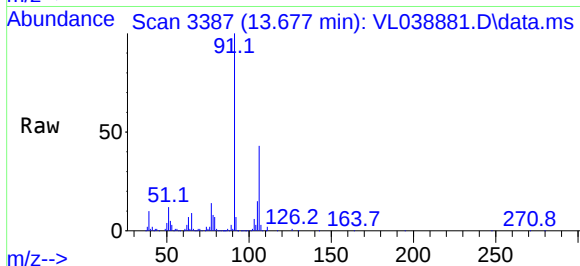
Tgt Ion: 91 Resp: 1703681
Ion Ratio Lower Upper
91 100
106 45.9 37.1 55.7





#60
o-Xylene
Concen: 1.699 ppbv
RT: 13.677 min Scan# 31
Delta R.T. -0.010 min
Lab File: VL038881.D
Acq: 11 Apr 2022 22:18

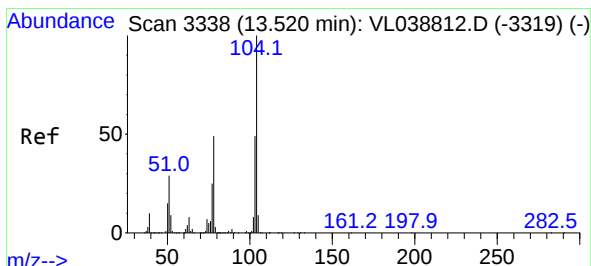
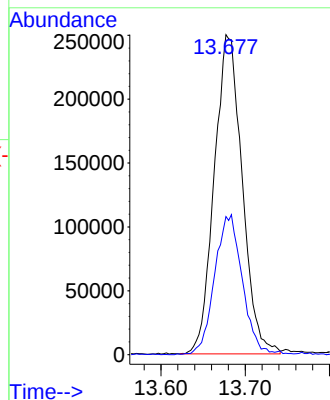
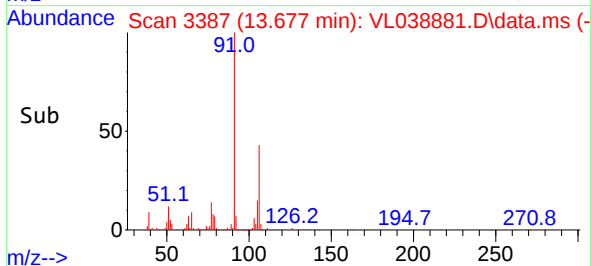
Instrument :
MSVOA_L
ClientSampleId :
IA-4



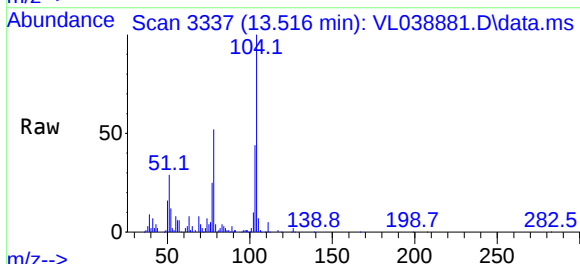
Tgt Ion: 91 Resp: 574449
Ion Ratio Lower Upper
91 100
106 43.6 23.8 71.4

Manual Integrations
APPROVED

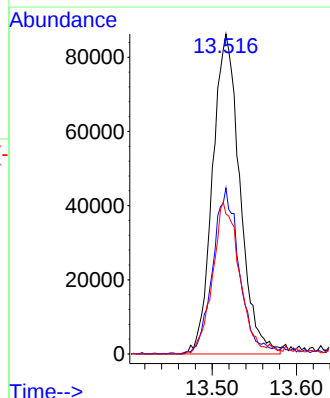
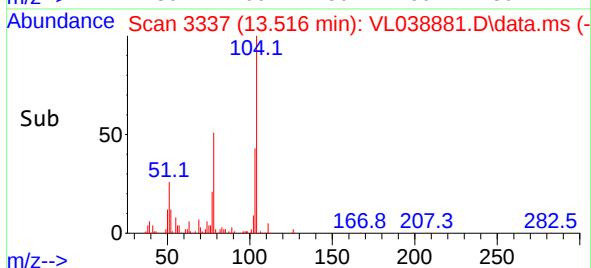
Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022

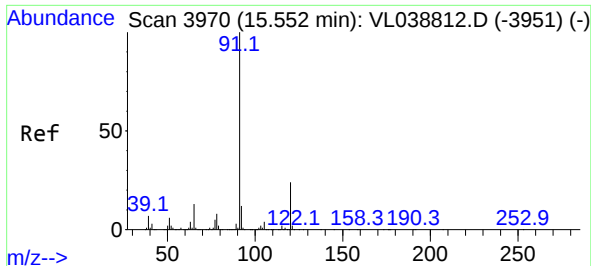


#61
Styrene
Concen: 0.942 ppbv
RT: 13.516 min Scan# 3337
Delta R.T. -0.003 min
Lab File: VL038881.D
Acq: 11 Apr 2022 22:18



Tgt Ion:104 Resp: 194066
Ion Ratio Lower Upper
104 100
78 51.3 40.5 60.7
103 48.4 39.0 58.4





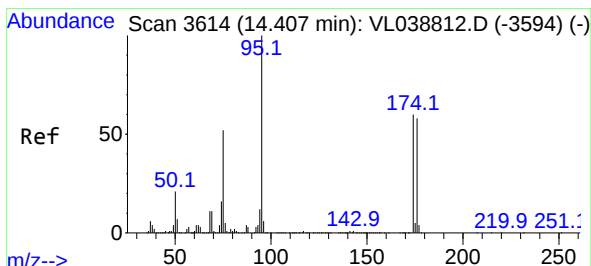
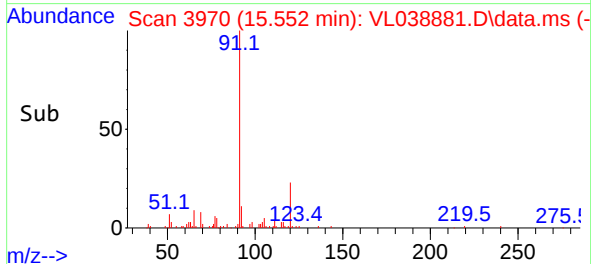
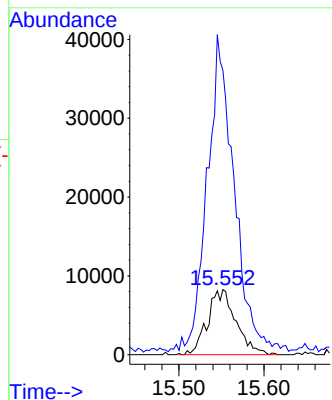
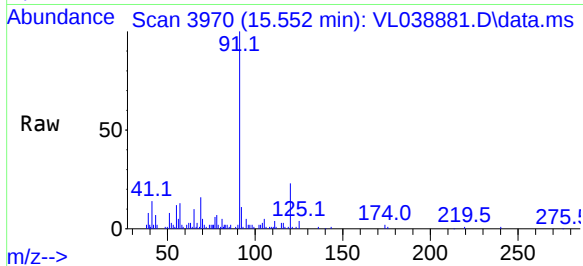
#64
n-propylbenzene
Concen: 0.145 ppbv m
RT: 15.552 min Scan# 3970
Delta R.T. -0.000 min
Lab File: VL038881.D
Acq: 11 Apr 2022 22:18

Instrument :
MSVOA_L
ClientSampleId :
IA-4

Tgt Ion:120 Resp: 1912
Ion Ratio Lower Upper
120 100
91 477.2 360.6 540.8

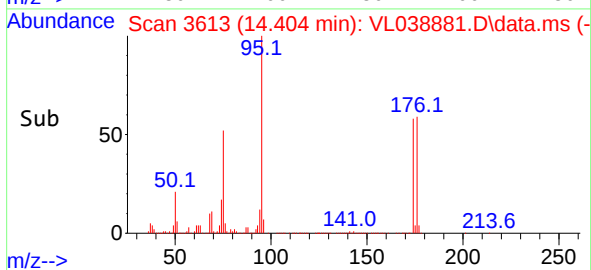
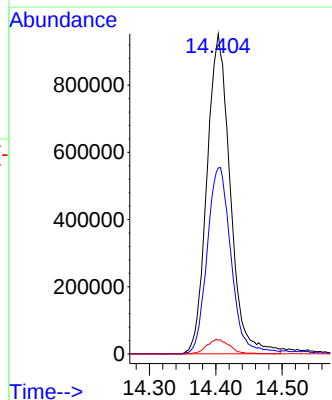
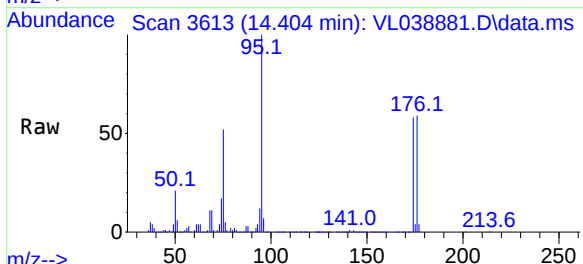
Manual Integrations
APPROVED

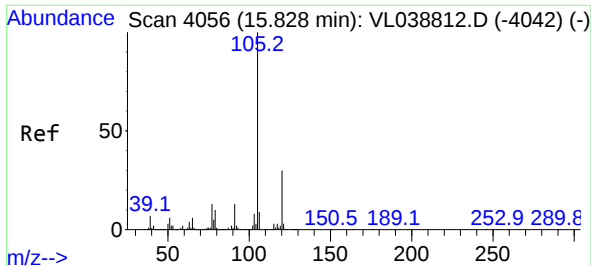
Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022



#68
1-Bromo-4-Fluorobenzene
Concen: 10.605 ppbv
RT: 14.404 min Scan# 3613
Delta R.T. -0.003 min
Lab File: VL038881.D
Acq: 11 Apr 2022 22:18

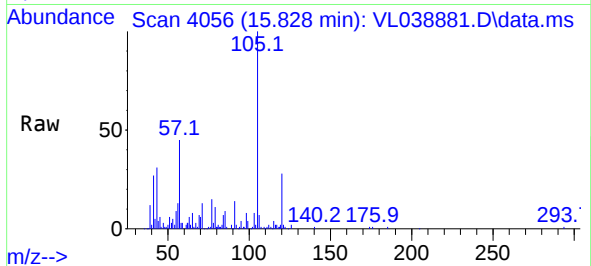
Tgt Ion: 95 Resp: 2315159
Ion Ratio Lower Upper
95 100
174 61.4 52.0 78.0
175 4.6 4.0 6.0





#72
4-Ethyltoluene
Concen: 0.227 ppbv
RT: 15.828 min Scan# 4056
Delta R.T. -0.000 min
Lab File: VL038881.D
Acq: 11 Apr 2022 22:18

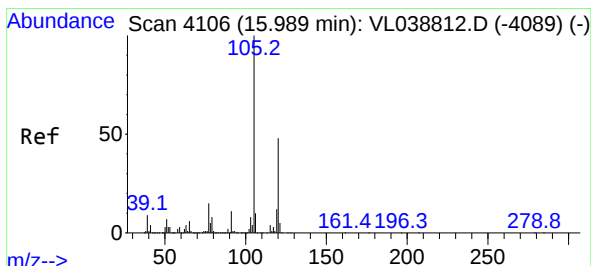
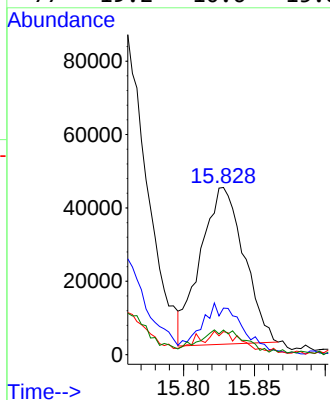
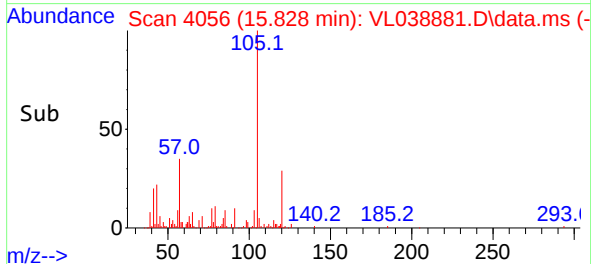
Instrument :
MSVOA_L
ClientSampleId :
IA-4



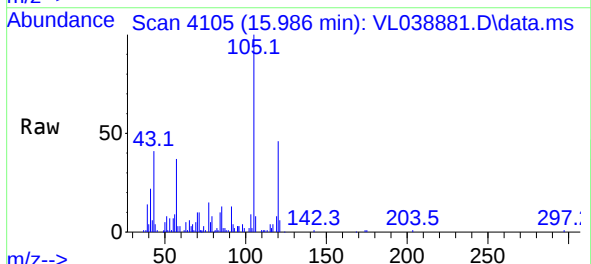
Tgt Ion:105 Resp: 91510
Ion Ratio Lower Upper
105 100
120 30.5 24.3 36.5
91 16.2 9.4 14.2
77 19.2 10.6 15.8

Manual Integrations
APPROVED

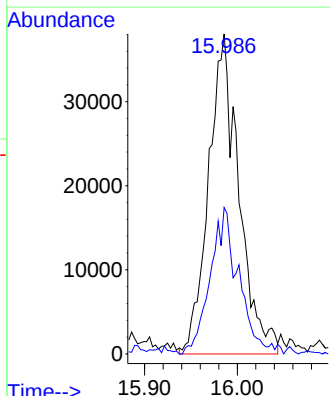
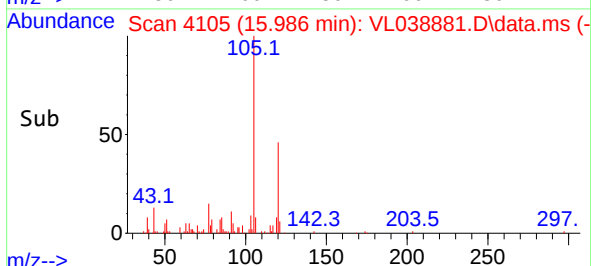
Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022

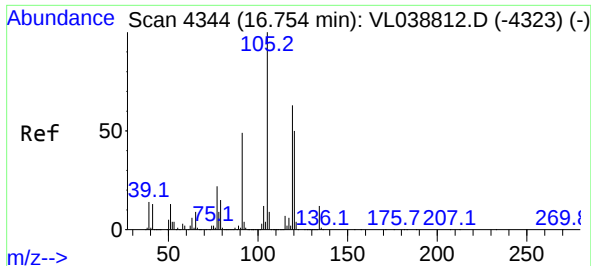


#73
1,3,5-Trimethylbenzene
Concen: 0.238 ppbv m
RT: 15.986 min Scan# 4105
Delta R.T. -0.003 min
Lab File: VL038881.D
Acq: 11 Apr 2022 22:18



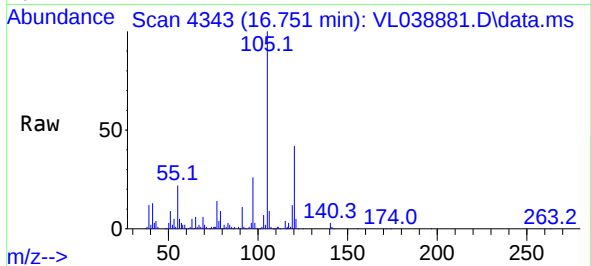
Tgt Ion:105 Resp: 86392
Ion Ratio Lower Upper
105 100
120 45.8 38.7 58.1





#74
1,2,4-Trimethylbenzene
Concen: 0.746 ppbv
RT: 16.751 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL038881.D
Acq: 11 Apr 2022 22:18

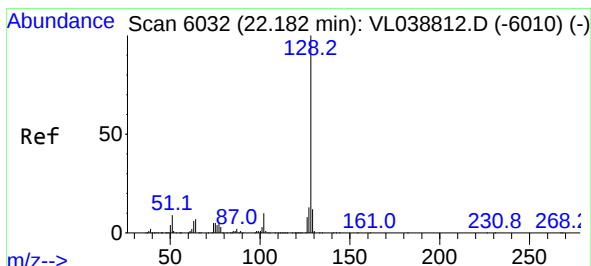
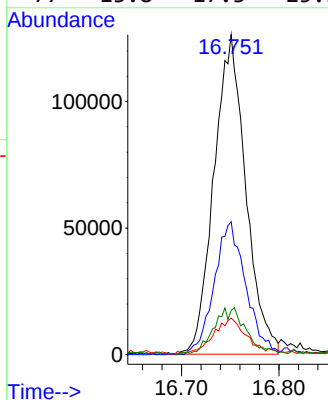
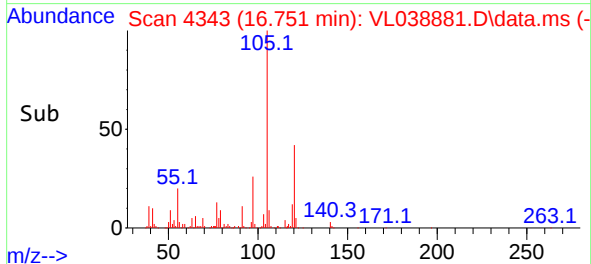
Instrument :
MSVOA_L
ClientSampleId :
IA-4



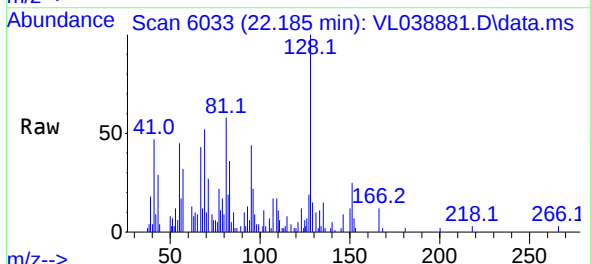
Tgt Ion:105 Resp: 28595
Ion Ratio Lower Upper
105 100
120 41.6 39.8 59.8
91 10.6 39.4 59.0
77 13.8 17.3 25.9#

Manual Integrations
APPROVED

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



#79
Naphthalene
Concen: 0.108 ppbv m
RT: 22.185 min Scan# 6033
Delta R.T. 0.003 min
Lab File: VL038881.D
Acq: 11 Apr 2022 22:18



Tgt Ion:128 Resp: 30962
Ion Ratio Lower Upper
128 100
127 18.9 10.6 15.8#
129 15.3 9.4 14.0#

