

The wet building materials should open at hood and conduct brushing in chamber to prepare the testing samples. The testing samples are made in chamber by brushing as four 200mm\*400mm glass boards.



(4)GC/MS Tune :

Before analyzing the samples, we must correct GC/MS by FC-43 ( PFTB Tributyl Amine) built in GC/MS. The analysis results must accord with the GC/MS' following table. Correction results are presented as follows

M/z	Ion Abundance	Ion Abundance Criteria
69	100	Base peak, 100% relative
219	49.59	40-60% of mass 69
502	2.79	1-3% of mass 69

(5) The blank test in chamber:

The concentration of the individual volatile organic compounds is needed to be smaller than  $2\mu\text{g}/\text{m}^3$ , and the total volatile organic compounds (TVOC) can't exceed  $10\mu\text{g}/\text{m}^3$ . The concentration of the formaldehyde should be smaller than  $2\mu\text{g}/\text{m}^3$ .

Test results:

Test items	Test concentrations ( $\mu\text{g}/\text{m}^3$ )	Detection limit ( $\mu\text{g}/\text{m}^3$ )	Permission values ( $\mu\text{g}/\text{m}^3$ )	Test results
Benzene	N.D.	0.27	2	PASS
Toluene	1.04	0.23	2	PASS
Ethylbenzene	0.82	0.12	2	PASS
o-Xylene	0.73	0.12	2	PASS
m,p-Xylene	1.43	0.1	4	PASS
TVOC	4.01	-	10	PASS
Formaldehyde	N.D.	0.16	2	PASS