

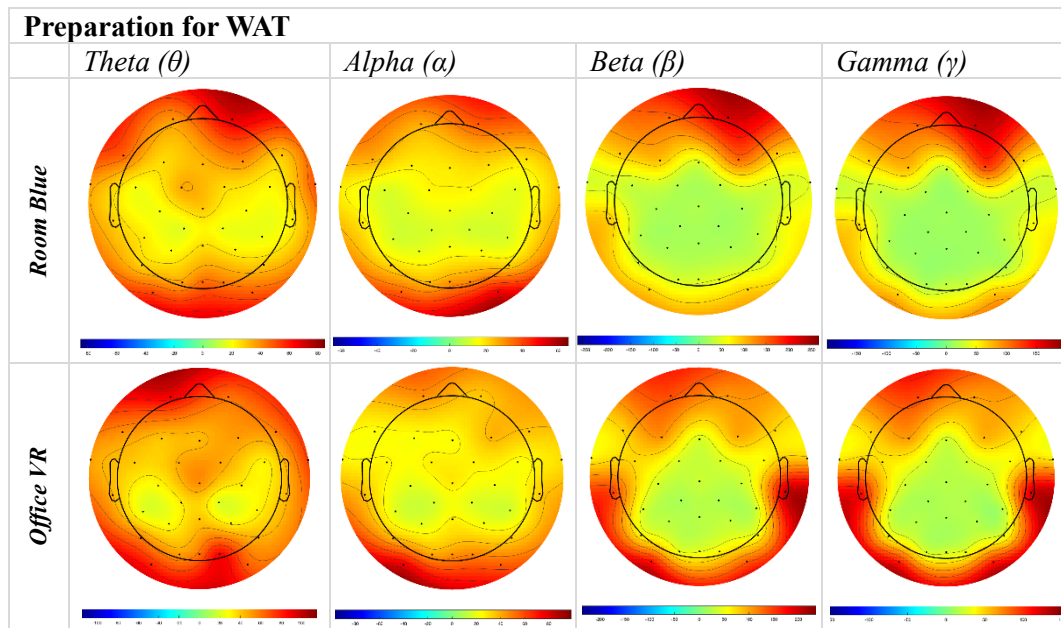
Visualised maps

Table 1 Comparing brain map patterns between two conditions, where each channel recorded varying amplitudes of all frequency band powers. The colour on each channel indicates the highest amplitude of theta, alpha, beta, or gamma.

Interval	Frequency band power in Final A-Room Blue vs. Office VR	
	Room Blue VR	Office VR
Preparation for WAT		
Preparation for AUT		
Idea generation (WAT)		
Idea generation (Drawing)		
Idea generation (AUT)		
Verification		
<div><div></div> Theta</div> <div><div></div> Alpha</div> <div><div></div> Beta</div> <div><div></div> Gamma</div> <div>The highlighted channels are those with significantly higher power than the other bands</div>		

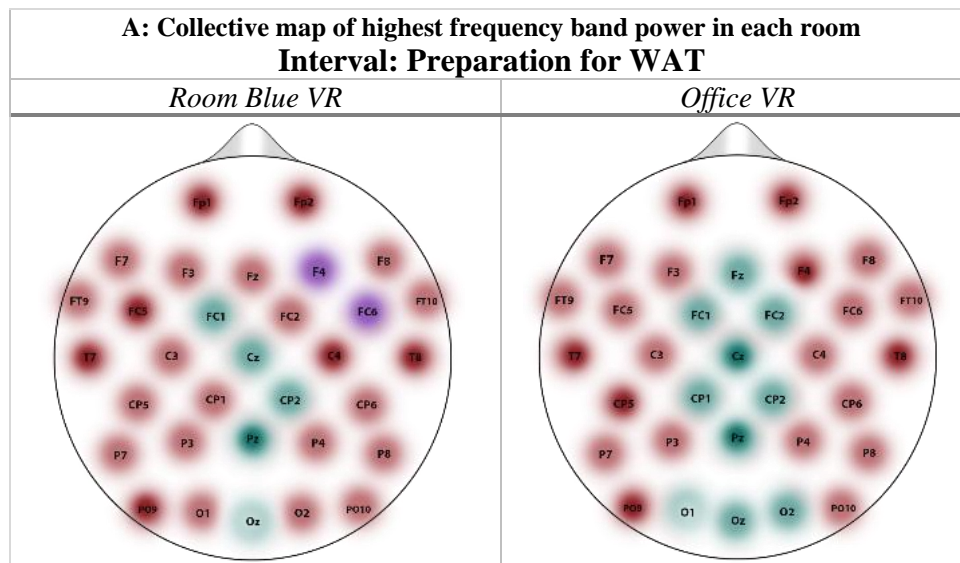
1. Interval of preparation for WAT

Table 2 Heat map illustrating the intensity of frequency band power collected from participants in Room Blue and Office VR during the preparation for WAT interval.

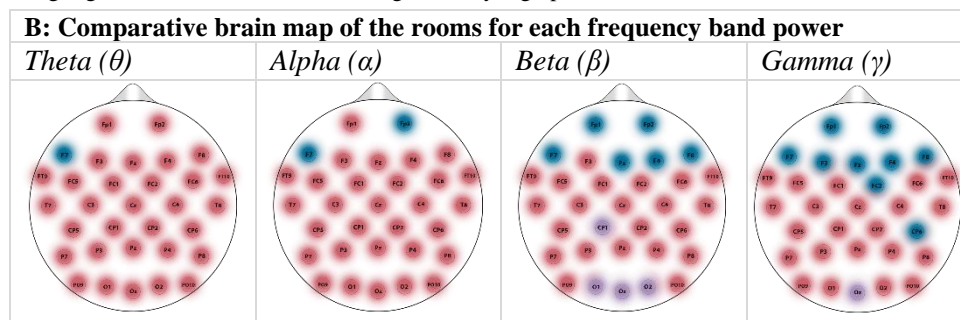


Dark Blue/Green: Low amplitude or power
 Light Blue: Moderate amplitude or power
 Yellow/Orange/Red: High amplitude or power

Table 3 Comprehensive map illustrating the highest frequency band power in each channel for a holistic view and comparison between two conditions during the preparation for WAT interval.



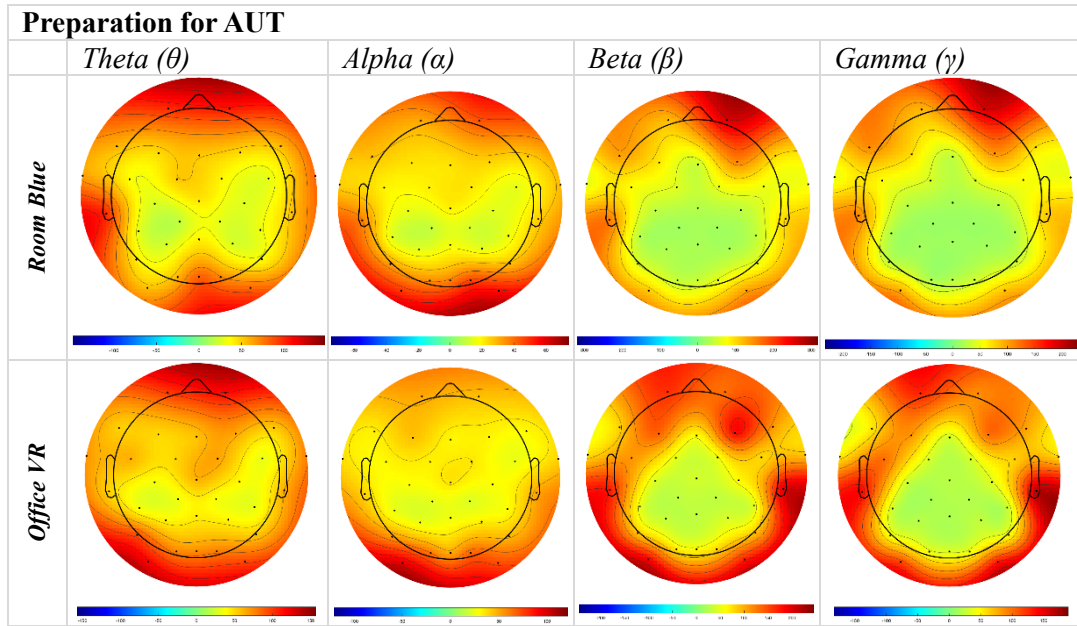
■ Theta
 ■ Alpha
 ■ Beta
 ■ Gamma
 Highlighted channels are those with significantly high power.



Red colour: power of frequency band in "Office" is higher than in "Room Blue"
 Blue colour: power of frequency band in "Room Blue" is higher than in "Office"
 Purple colour: Power of frequency band in "Room Blue" is almost equivalent to that in "Office"

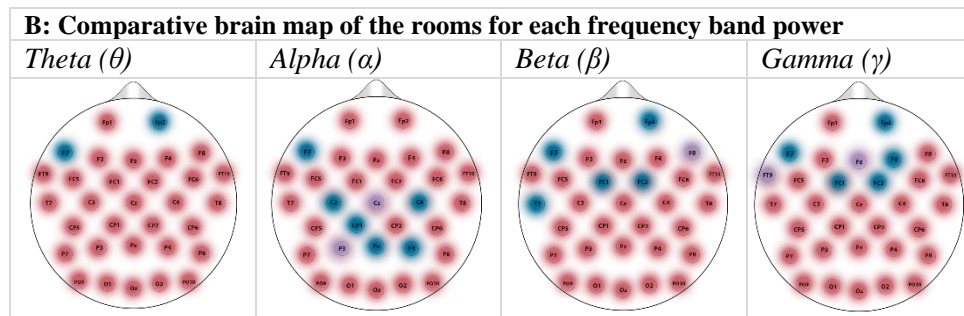
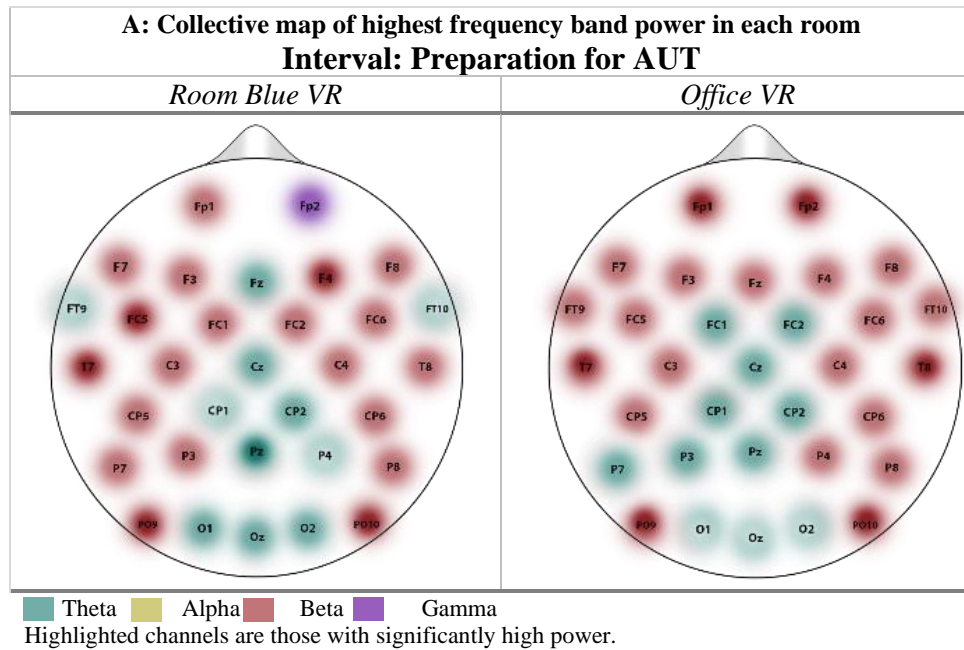
2. Interval of preparation for AUT

Table 4 Heat map illustrating the intensity of frequency band power collected from participants in Room Blue and Office VR during the preparation for AUT interval.



Dark Blue/Green: Low amplitude or power
 Light Blue: Moderate amplitude or power
 Yellow/Orange/Red: High amplitude or power

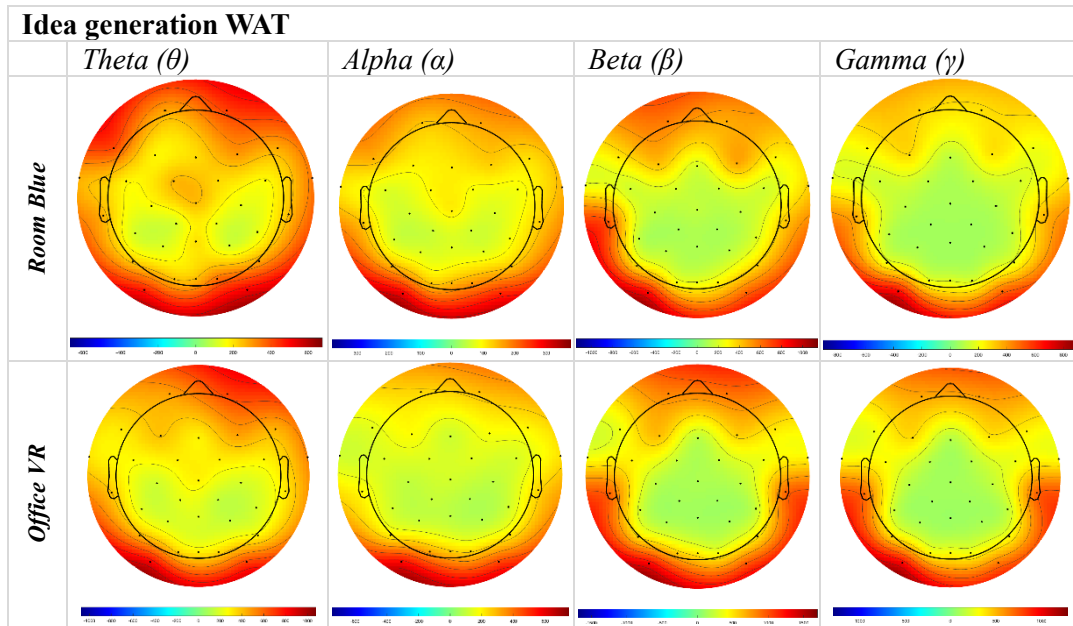
Table 5 Comprehensive map illustrating the highest frequency band power in each channel for a holistic view and comparison between two conditions during the preparation for AUT interval.



Red colour: power of frequency band in “Office” is higher than in “Room Blue”
 Blue colour: power of frequency band in “Room Blue” is higher than in “Office”
 Purple colour: Power of frequency band in “Room Blue” is almost equivalent to that in “Office”

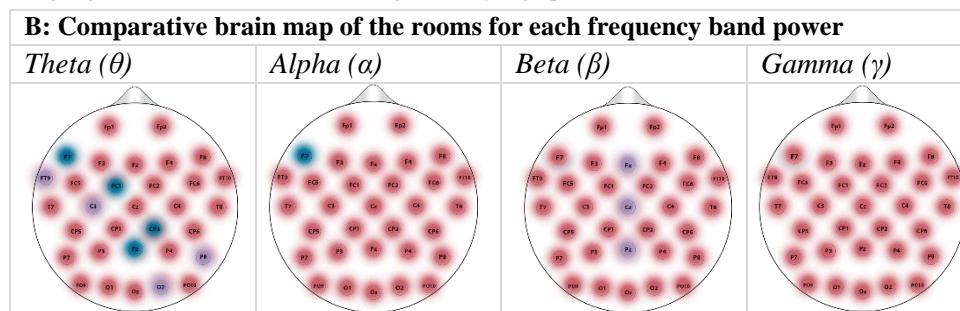
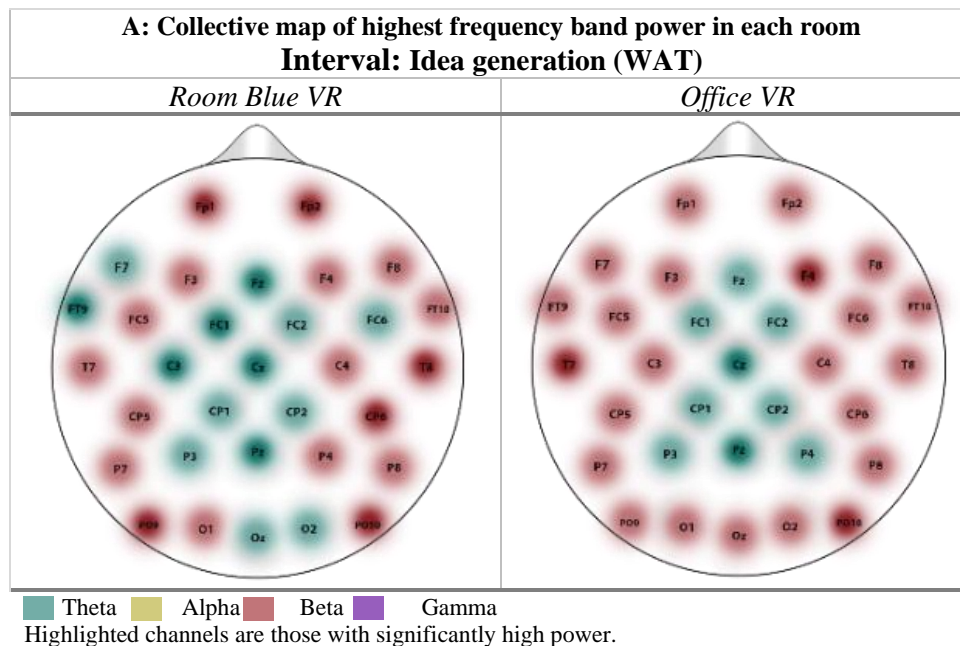
3. Interval of Idea generation (WAT)

Table 6 Heat map illustrating the intensity of frequency band power collected from participants in Room Blue and Office VR during the idea generation (WAT) interval.



Dark Blue/Green: Low amplitude or power
 Light Blue: Moderate amplitude or power
 Yellow/Orange/Red: High amplitude or power

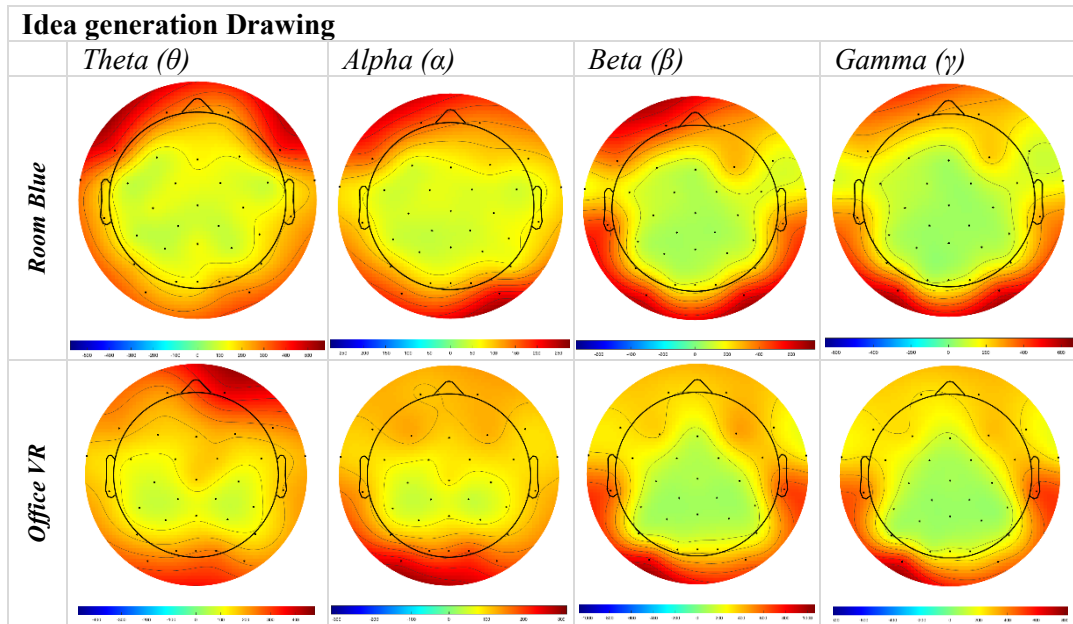
Table 7 Comprehensive map illustrating the highest frequency band power in each channel for a holistic view and comparison between two conditions during the idea generation (WAT) interval.



Red colour: power of frequency band in "Office" is higher than in "Room Blue"
 Blue colour: power of frequency band in "Room Blue" is higher than in "Office"
 Purple colour: Power of frequency band in "Room Blue" is almost equivalent to that in "Office"

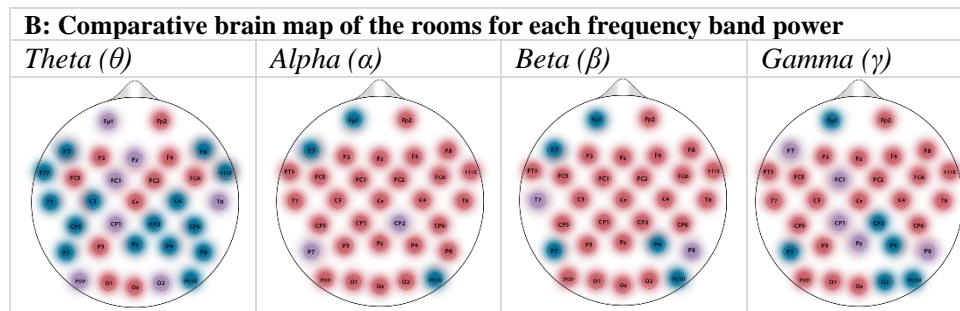
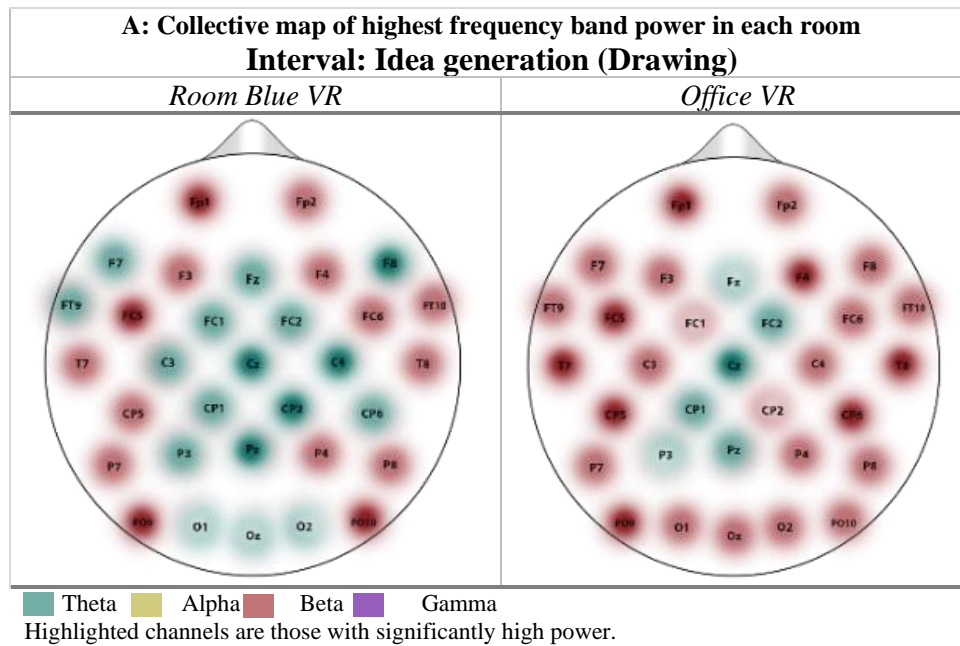
4. Interval of Idea generation (Drawing)

Table 8 Heat map illustrating the intensity of frequency band power collected from participants in Room Blue and Office VR during the idea generation (Drawing) interval.



Dark Blue/Green: Low amplitude or power
 Light Blue: Moderate amplitude or power
 Yellow/Orange/Red: High amplitude or power

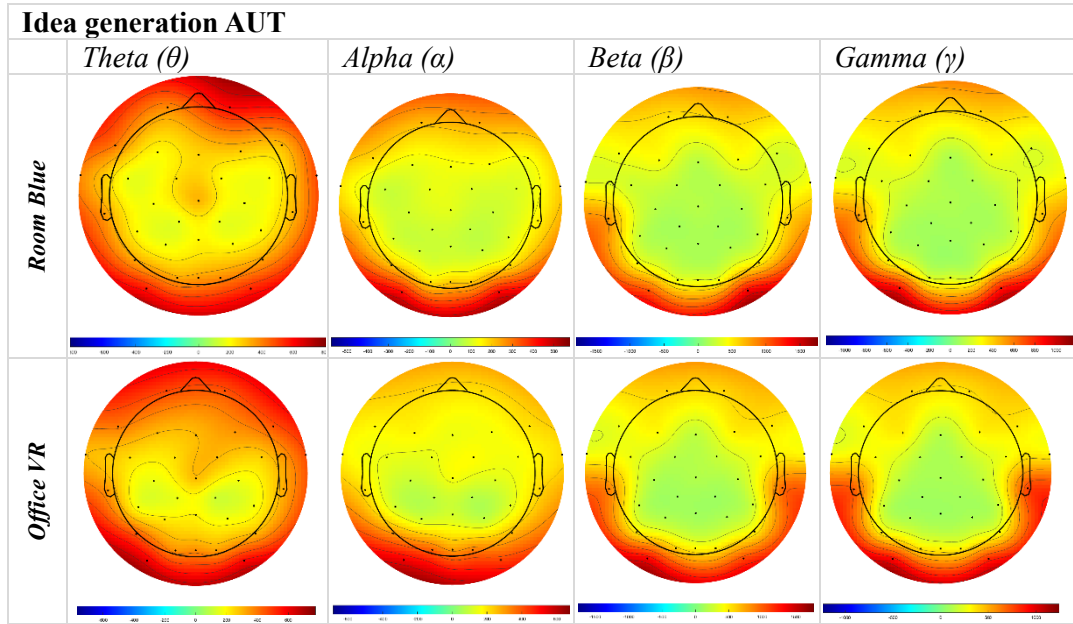
Table 9 Comprehensive map illustrating the highest frequency band power in each channel for a holistic view and comparison between two conditions during the idea generation (Drawing) interval.



Red colour: power of frequency band in "Office" is higher than in "Room Blue"
 Blue colour: power of frequency band in "Room Blue" is higher than in "Office"
 Purple colour: Power of frequency band in "Room Blue" is almost equivalent to that in "Office"

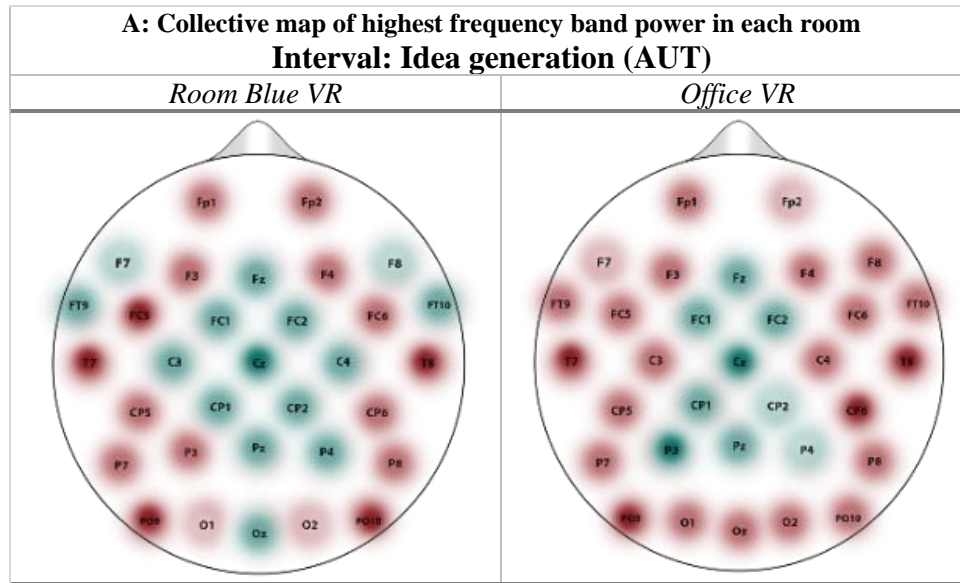
5. Interval of Idea generation (AUT)

Table 10 Heat map illustrating the intensity of frequency band power collected from participants in Room Blue and Office VR during the idea generation (AUT) interval.

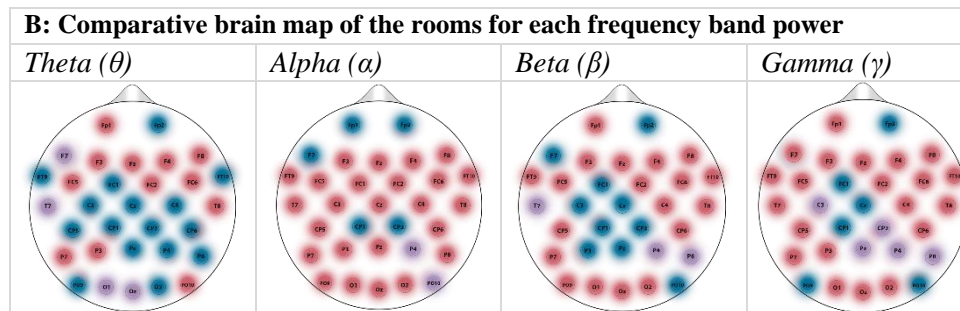


Dark Blue/Green: Low amplitude or power
 Light Blue: Moderate amplitude or power
 Yellow/Orange/Red: High amplitude or power

Table 11 Comprehensive map illustrating the highest frequency band power in each channel for a holistic view and comparison between two conditions during the idea generation (AUT) interval.



Theta Alpha Beta Gamma
 Highlighted channels are those with significantly high power.



Red colour: power of frequency band in "Office" is higher than in "Room Blue"
 Blue colour: power of frequency band in "Room Blue" is higher than in "Office"
 Purple colour: Power of frequency band in "Room Blue" is almost equivalent to that in "Office"

6. Interval of Verification

Table 12 Heat map illustrating the intensity of frequency band power collected from participants in Room Blue and Office VR during the verification interval.

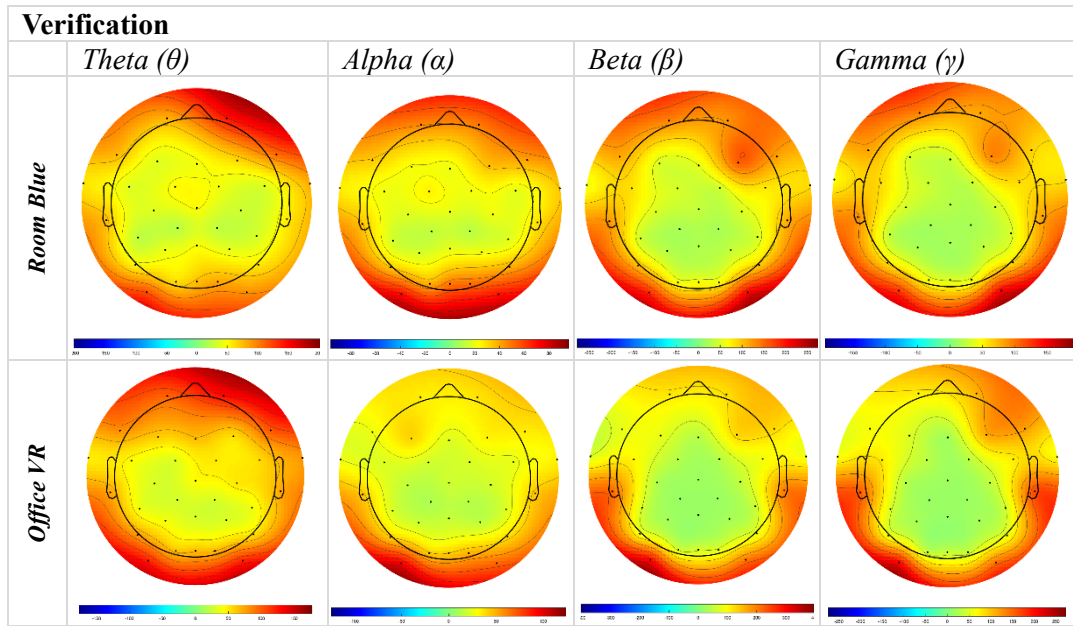
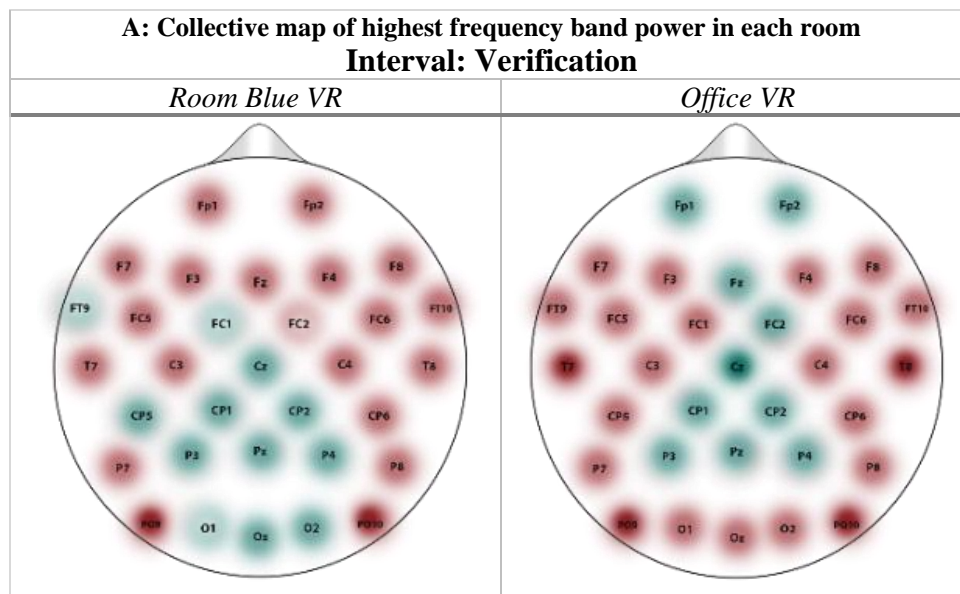
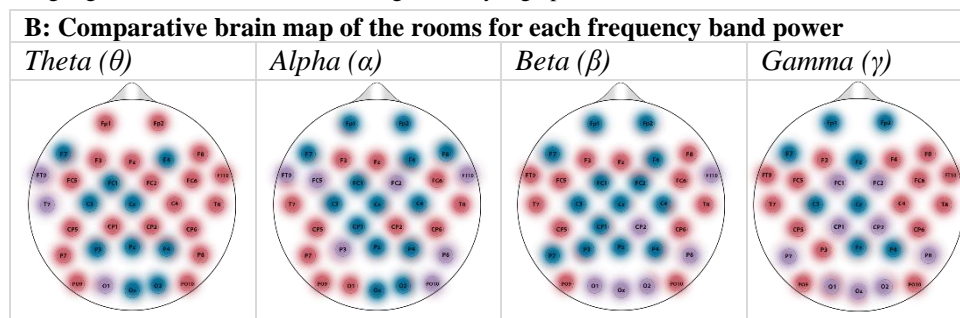


Table 13 Comprehensive map illustrating the highest frequency band power in each channel for a holistic view and comparison between two conditions during the verification interval.



Theta Alpha Beta Gamma

Highlighted channels are those with significantly high power.



Red colour: power of frequency band in "Office" is higher than in "Room Blue"

Blue colour: power of frequency band in "Room Blue" is higher than in "Office"

Purple colour: Power of frequency band in "Room Blue" is almost equivalent to that in "Office"