

RF EXPOSURE Standard Applicable

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

This is a Portable device with its physical nature to be used nearby, the distance between radiating structure and human is less than 20cm.

As per KDB 447498 D01 §4.3.1, The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] \cdot [$\sqrt{f}(GHz)$] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR, where

f (GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

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Measurement Result:

Step 1: (<50mW)

802.11a:

This is a portable device and the Max peak output power is (6.22mW) lower than the threshold given and derived as formula given above, where

$= 6.22 \text{ (mW)}/5 \text{ (mm)} \times \sqrt{5220} \text{ (GHz)} = 2.84 < 3.0$

Frequency 5220	Power (avg in 7.94	•	Power (avg mw) Dis 6.223002852		Threshold (<5mm) 2.843578665	
	Frequency (MHz)	Reading Power (dBm)	Output Pow (W)	er Limit (W)	t	
	5220	7.94	0.00622	16.99dBr 4+10log() 17.14dE	B) =	

802.11n HT20:

This is a portable device and the Max peak output power is (6.11mW) lower than the threshold given and derived as formula given above, where

$= 6.11 \text{ (mW)}/5 \text{ (mm)} \times \sqrt{5220} \text{ (GHz)} = 2.79 < 3.0$

Frequency 5220	Power (avg in 7.86	•	(avg mw) [0420249	Distance (mm) 5	Threshold (<5mm) 2.791677506	
	Frequency (MHz)	Reading Power (dBm)	Output Powe (W)	er Limit (W)		
	5220	7.86	0.00610	16.99dBn 4+10log(I 17.28dB	B) =	

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802.11n HT40:

This is a portable device and the Max peak output power is (6.05mW) lower than the threshold given and derived as formula given above, where

 $= 6.05 \text{ (mW)}/5 \text{ (mm)} \times \sqrt{5230} \text{ (GHz)} = 2.77 < 3.0$

Frequency 5230	Power (avg in 7.82	•	Power (avg mw) Dis 6.053408748		Threshold (<5mm) 2.76873149	
	Frequency (MHz)	Reading Power (dBm)	Output Power (W)	r Limit (W)		
	5230	7.82	0.00605	16.99dBm 4+10log(H 20.27dB	B) =	

802.11ac VHT80:

This is a portable device and the Max peak output power is (6.07mW) lower than the threshold given and derived as formula given above, where

 $= 6.07 \text{ (mW)}/5 \text{ (mm)} \times \sqrt{5210} \text{ (GHz)} = 2.76 < 3.0$

Frequency 5210	Power (avg in 7.83	•	(avg mw) 7363296	Distance (mm) 5	Threshold (<5mm) 2.769802847	
	Frequency (MHz)	Reading Power (dBm)	Output Powe (W)	er Limit (W)		
	5210	7.83	0.00607	16.99dBn 4+10log(F 23.24dB	B) =	

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As the result of calculation result indicates, the RF exposure generating from given transmitter (transmitter employed digital modulation) can be excluded from SAR measurement, and is deemed compliant with RF exposure as per FCC.

The table of quick reference in terms of power threshold

Distances are illustrated in the following Table. MHz mm SAR Test Exclusion Threshold (mW)

SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation

Note that the table present above is the table of quick reference, indexing the level of power threshold with respect to the corresponding frequency. The value of the index may be deviated, and therefore, the derivation of exemption based on KDB447498 D01 is used in this test report, relevantly.

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