

## **RF EXPOSURE EVALUATION METHOD**

## FCC ID: 2A2TU-PXV321

## Applicable standard:

In accordance with FCC 47 CFR part 2 (2.1093) this device has been defined as a portable device which is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.

Portable devices must be evaluated using the specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEEC95.1-1992. and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2003.

Per FCC KDB 447498 D01 v06, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances s 50 mm are determined by:

SAR Test Exclusion Thresholds for 100 MHz  $\,$  -  $\,$  6 GHz and  $\leq$  50 mm

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test

Separation

Distances are illustrated in the following Table.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	SAR Test Exclusion
1900	11	22	33	44	54	Threshold (mW)
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	

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)] •  $[\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR and  $\le 7.5$  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 The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.



	Frequency(MHz)	Maximum Conducted Output Power(PK) (dBm)	Conducted Output Power Limit(dBm)	
GFSK	2403 MHz	-0.986	30	
GFSK	2442 MHz	-0.404	30	
	2480 MHz	-0.788	30	
max possible outp	out power (PK,conduct	ed): 0±1dBm		
1.89dBi logarithm	ic terms convert to nu	meric result is nearly 1.5	5	
1dBm=1.26mW				
2403MHz				
[(max. power of ch	nannel, including tune	-up tolerance, mW)/(min	. test separation	
distance,mm)] · [√	f(GHz)]= 1.26/5*√2.40	93=0.391≤3.0		
2442MHz				
[(max. power of ch	nannel, including tune	-up tolerance, mW)/(min	. test separation	
distance,mm)] · [√	f(GHz)]= 1.26/5*√2.44	2=0.394≤3.0		
2480MHz				

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation

distance,mm)] · [√f(GHz)]= 1.26/5\*√2.48=0.397≤3.0

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Conclusion:

1. [(max. power of channel, including tune-up tolerance, mW)/(min. test separation

distance, mm)] \*  $[\sqrt{f(GHz)}] < 3.0.$ 

2. SAR Test Exclusion Thresholds is 3.0 for separation distance 5mm. Therefore,

SAR test is not required.