

RF EXPOSURE EVALUATION

Product Name	:	Mini printer			
Model Name	:	Y-M02			
FCC ID	:	ASRB-QY-M02			
Specification		Bluetooth 4.0 Dual Mode			
Operation Frequency	:	2402-2480MHz			
Number of Channel	:	79 channels For BR/EDR 40 Channels For BLE			
Antenna Type	:	Internal PCB Antenna			
Antenna Gain	:	0dBi			
Power supply	:	DC 7.4V, 1000mAh Battery			
Device category	:	Portable (<20cm separation)			

Standard Requirement

According to § 15.247(i) and § 1.1307b(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See KDB 447498 D01 General RF Exposure Guidance v05, section 4. 3. 1.

The 1-g and 10-g SAR test exclusion thresholds for 100MHz to 6GHz at test separation distances \leq 50mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]*[$\sqrt{f(GHz)}$] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g SAR 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 50mm and for transmission frequencies between 100MHz and 6GHz. When the minimum test separation distance is <5mm, a distance of 5mm is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters



with output power greater than the applicable low threshold require SAR evaluation to quality for TCB approval.

One antenna is available for the EUT (BT product). The minimum separation distance is 5mm.

For Bluetooth Classical:

Channel	Measurement Peak Output Power(dBm)					
Frequency (MHz)	GFSK	П/4-DQPSK	8DPSK			
2402	3.78	3.12	2.91			
2441	3.49	3.18	3.00			
2480	3.26	2.94	2.79			

Channel Frequency (MHz)	Tune up tolerance (dBm)	Max tune up conducted power(dBm)	Output Peak power (mW)	Calculation Result	Limits
2402	3±1	4	2.51	0.77860	3
2441	3±1	4	2.51	0.78490	3
2480	3±1	4	2.51	0.79114	3
2402	3±1	4	2.51	0.77860	3
2441	3±1	4	2.51	0.78490	3
2480	2±1	3	2.00	0.62843	3
2402	2±1	3	2.00	0.61847	3
2441	2±1	3	2.00	0.62347	3
2480	2±1	3	2.00	0.62843	3



For BLE

Peak Power Output(dBm)
-3.92
-3.66
-4.03

Channel Frequency (MHz)	Tune up tolerance (dBm)	Max tune up conducted power(dBm)	Output Peak power (mW)	Calculation Result	Limits
2402	-3±1	-2	0.63	0.19558	3
2442	-3±1	-2	0.63	0.19712	3
2480	-4±1	-3	0.50	0.15785	3

According to KDB 447498, no stand-alone required for BT antenna, and no simultaneous SAR measurement is required.

Signature

Chrism

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