

RF EXPOSURE EVALUATION

EUT Specification

EUT	TAG6
Model Number	SMPLABSBT2
FCC ID	2AUYZ-SMPLABSBT2
Antenna gain (Max)	3.21dBi
Operation Frequency	2402-2480MHz
Input Rating	DC 3.6V
Standard	47 CFR Part 1.1307 47 CFR Part 1.1310 KDB447498D01
	General RF Exposure Guidance v06
Modulation	BLE

Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by: [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [$\sqrt{f(GHz)}$] ≤ 3.0 for 1-g SAR and ≤ 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 calculation17 • The result is rounded to one decimal place for comparison. The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is ≤ 50 mm, a distance of 5 mm is applied to determine SAR test exclusion

According to KDB447498D01 General RF Exposure Guidance v06 Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

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Calculated Result and Limit

Operation Mode: GFSK								
Channel	Maximum Peak	Tune up tolerance (dBm)	Maximum tune-up Power					
	Conducted Output Power (dBm)		(dBm)	(mW)	Calculated value	Exclusion threshold		
GFSK -Lowest (2402MHz)	3.87	4±1	5	3.16	1.00			
GFSK -Middle (2440MHz)	4.03	4±1	5	3.16	1.00	3.0		
GFSK -Highest (2480MHz)	4.20	4±1	5	3.16	1.00			
Conclusion: the calculated value ≤3.0, SAR is exempted.								

Remark: The Max Conducted Peak Output Power data refer to report Report No.: 90413-23-72-23-PP001.