Bluetooth Output Power

Channel	Frequency (MHz)	BT3.0 Output Power(dBm)		
		GFSK	π /4-DQPSK	8-DPSK
CH 0	2402	6.98	6.26	6.30
CH 39	2441	6.63	6.01	6.05
CH 78	2480	5.89	5.20	5.25

Channel	Frequency (MHz)	BT4.0 Output Power(dBm)
		GFSK
CH 0	2402	-0.13
CH 20	2442	-0.05
CH 39	2480	-1.11

SAR test Exclusion and estimate SAR calculation:

Note:
1. Per KDB 447498 D01v06, the 1-g and 10-g SAR test exclusion thresholds for 100MHz to 6GHz at test separation distances ⩽ 50mm 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
   (1) f(GHz) is the RF channel transmit frequency in GHz
   (2) Power and distance are round to the nearest mW and mm before calculation
   (3) The result is rounded to one decimal place for comparison
   (4) If the test separation distance(antenna-user) is < 5mm, 5mm is used for excluded SAR calculation
   (5)

BT3.0 Max Power (dBm)	mW	Test Distance (mm)	Frequency(GHz)	Exclusion Thresholds
7.5	5.623	5	2.45	1.760

Per KDB 447498 D01v06 exclusion thresholds is 1.760<3, RF exposure evaluation is not required.

BT estimated SAR value=Exclusion Thresholds/7.5=1.760/7.5=**0.235W/Kg**

BT3.0 Max Power (dBm)	mW	Test Distance (mm)	Frequency(GHz)	Exclusion Thresholds
7.5	5.623	10	2.45	0.880

Per KDB 447498 D01v06 exclusion thresholds is 0.880<3, RF exposure evaluation is not required.
BT estimated SAR value=Exclusion Thresholds/7.5=0.880/7.5=**0.117W/Kg**

BT4.0 Max Power (dBm)	mW	Test Distance (mm)	Frequency(GHz)	Exclusion Thresholds
0.5	1.122	5	2.45	0.351

Per KDB 447498 D01v06 exclusion thresholds is 0.351<3, RF exposure evaluation is not required.

BT estimated SAR value=Exclusion Thresholds/7.5=0.351/7.5=0.047W/Kg

BT4.0 Max Power (dBm)	Mw	Test Distance (mm)	Frequency(GHz)	Exclusion Thresholds
0.5	1.122	10	2.45	0.176

Per KDB 447498 D01v06 exclusion thresholds is 0.176<3, RF exposure evaluation is not required.

BT estimated SAR value=Exclusion Thresholds/7.5=0.176/7.5=0.023W/Kg

The estimated SAR value is used for simultaneous transmission analysis.