RF EXPOSURE EVALUATION

EUT Specification

Report No.: NTC1405529F/-1

EUT	Falcon					
Frequency band	□WLAN: 2.412GHz ~ 2.462GHz					
(Operating)	□WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz					
	□WLAN: 5.745GHz ~ 5825GHz					
	⊠Others(Bluetooth: 2.402GHz ~ 2.480GHz)					
Device category	⊠Portable (<20cm separation)					
	☐Mobile (>20cm separation)					
	Others					
Antenna diversity	⊠Single antenna					
	☐Multiple antennas					
	☐Tx diversity					
	☐Rx diversity					
	☐Tx/Rx diversity					
Max. output power	2.64dBm (1.84mW) For BT 2.1+EDR					
	0.56dBm (1.14mW) For BT 4.0					
Antenna gain	0 dBi					
Evaluation applied	☐MPE Evaluation					
	⊠SAR Evaluation					

Standard Requirement

Portable Device

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 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, ¹⁶ 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 \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is \leq 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

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Measurement Result

For BT 2.1+EDR

Channel	Channel	Max Output	Max Output	Calculation	Threshold			
	Frequency	AVG power	AVG power	Value (Note 1)	Value			
	(MHz)	(dBm)	(mW)					
GFSK								
Low	2402.00	-3.06	0.49	0.152	3.0			
Middle	2441.00	0.92	1.24	0.387	3.0			
High	2480.00	2.64	1.84	0.580	3.0			
π/4-DQPSK								
Low	2402.00	-3.85	0.41	0.127	3.0			
Middle	2441.00	0.17	1.04	0.325	3.0			
High	2480.00	1.82	1.52	0.479	3.0			
8DPSK								
Low	2402.00	-3.81	0.42	0.130	3.0			
Middle	2441.00	0.23	1.05	0.328	3.0			
High	2480.00	1.90	1.55	0.488	3.0			

For BT 4.0

Channel	Channel	Max Output	Max Output	Calculation	Threshold
	Frequency	AVG power	AVG power	Value (Note 1)	Value
	(MHz)	(dBm)	(mW)		
Low	2402.00	-5.36	0.29	0.090	3.0
Middle	2442.00	-0.56	0.88	0.275	3.0
High	2480.00	0.56	1.14	0.359	3.0

Note 1: Calculation Value =[(max. power of channel, mW)/(min.

test separation distance, mm)] • [$\sqrt{f(GHz)}$]. Fox example: 0.49/5* $\sqrt{2.402}$ =0.152 \leq 3.0

According to KDB447498 D01 v05, threshold at which no SAR required is \leq 3.0 for 1-g SAR, separation distance is 5mm, and no simultaneous SAR measurement is required.