RF EXPOSURE EVALUATION

EUT Specification

EUT	Wireless Presenter				
Model Name	M01403-PGS, M01403-PRS, M01403-PG				
Frequency band	WLAN: 2.412GHz ~ 2.462GHz				
(Operating)	WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz				
	WLAN: 5.745GHz ~ 5825GHz				
	⊠Others(2408-2474MHz)				
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	94.31 dBuV/m (-0.95 dBm)(0.804 mW)				
Antenna gain	-1 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 \leq 50 mm 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 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 < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Channel Frequency (MHz)	Max Output power (dBuV/ M)	Max Output power (dBm)	Max Output power (mW)	Calculation Value (Note 1)	Threshold Value
2408	92.21	-3.05	0.495	0.1536	3.0
2440	93.36	-1.90	0.646	0.2018	3.0
2474	94.31	-0.95	0.804	0.2529	3.0

Measurement Result

 $E = EIRP - 20\log D + 104.8$

where:

 $E = electric field strength in dB\mu V/m$,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

EIRP=E-104.8+20logD=94.31-104.8+20log3=0.804 dBm

Note 1: Calculation Value =[(max. power of channel, mW)/(min. test separation distance, mm)] - [$\sqrt{f(GHz)}$]. For example: 0.804/5* $\sqrt{2.474}$ =0.2529 \leq 3.0

According to KDB447498 D01 V05, threshold at which no SAR required is ≤3.0 for 1-g SAR, separation distance is 5mm, and no simultaneous SAR measurement is required.

The SAR measurement is not necessary.