

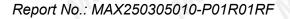
RF EXPOSURE EVALUATION METHOD

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency(RF) Radiation as specified in §1.1307(b)

According to KDB 447498 D01 General RF Exposure Guidance v06, 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 Test Exclusion Threshold condition(s), listed below, is (are) satisfied.

EUT Specification

FCC ID	2A3HZ-D05						
EUT	Wireless Gaming Controller						
Frequency band	🗆 WLAN: 2.412GHz ~ 2.462GHz						
(Operating)	U WLAN: 5.150GHz ~ 5.250GHz						
	🗆 WLAN: 5.725GHz ~ 5.850GHz						
	☑ Others BT:2402-2480MHz						
Device category	☑ Portable (<20cm separation)						
	Mobile (>20cm separation)						
		- 0					
Exposure classification	\Box Occupational/Controlled exposure (S = 5mW/cm ²)						
	General Population/Uncontrolled exposure						
	(S=1mW/cm ²)						
Antenna diversity	Single antenna						
	Multiple antennas						
	Tx diversity						
	Rx diversity						
·	□ Tx/Rx diversity						
Max. output power	1.862dBm (0.00154W)						
Antenna gain (Max)	-2.30dBi						
Evaluation applied	MPE Evaluation						
10.	SAR Evaluation						





RF EXPOSURE EVALUATION METHOD SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	SAR Test - Exclusion - Threshold (mW)
1900	11	22	33	44	54	
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	

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)] • [\checkmark f(GHz)] $\leqslant~$ 3.0 for 1-g SAR and $\leqslant~$ 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 calculation

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is $\leqslant\,$ 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.



Report No.: MAX250305010-P01R01RF

Maximum measured transmitter power.

BLE								
Operating Mode	Fraguanc	Measure d Power	max. power	Antenna Gain	Antenna Gain (linear)	min. test separation distance	Result	Limit
	(MHz)	(dBm)	(mW)	(dBi)	/	(mm)		
GFSK	2402	1.265	1.34	-2.30	0.59	5	0.4148	3
	2440	1.426	1.39	-2.30	0.59	5	0.4338	3
	2480	1.862	1.54	-2.30	0.59	5	0.4836	3

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)] \cdot [$\sqrt{f}(GHz)$]

The test Result is less than 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR.

Conclusion: No SAR is required.