10 Appendix A - General Product Information

Radiofrequency radiation exposure evaluation

This exposure evaluation is intended for **FCC ID: 2AX6LQTMEAP10**

According to FCC CFR 47 part1 §1.1310, Part 2 §2.1091, and KDB447498 D01 General RF Exposure Guidance v06, As specified in Table 1B of 47 CFR 1.1310 – Limits for Maximum Permissible Exposure (MPE), Limits for General Population/Uncontrolled Exposure

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm^2)	Averaging time (minutes)
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	$*180/f^2$	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

MPE calculation method:
Pd = (P*G) / ($4*Pi* R^2$), where
Pd = power density in mW/cm^2
P = output power to antenna in mW
G = gain of antenna in linear scale
Pi = 3.1416
R= calculation distance in cm

>> The limit of Power density in 2402-2480MHz band is 1 mW/cm^2

>> The antenna gain is 3.2dBi (=2.09 in linear scale).
Manufacturer specified the separation distance is: 20cm
The max. power (calculated power + tune up tolerance) of EUT in 2402-2483.5MHz band is: 2.21mW

>> The calculated Pd for the EUT in 2402-2480MHz band is 0.00092mW/cm^2

>> So, the calculated Pd is smaller than the threshold of the limit.
Therefore, the device is exempt from stand-alone SAR test requirements.

Appendix A

Calculated Data

Maximum peak output power at antenna input terminal (dBm):	3.44
Maximum peak output power at antenna input terminal (mW):	2.21
Prediction distance (cm):	20
Maximum Antenna Gain, typical (dBi):	3.2
Maximum Antenna Gain (numeric):	2.09
The worst case is power density at predication frequency at 20 cm (mW/cm2):	0.00092

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