

Test Result of RF Exposure Evaluation

According to the KDB-447498 D01 V06, FCC 47CFR § 2.1091 the following RF exposure evaluation shall to demonstrate RF exposure compliance.

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where

P_d = power density in mW/cm², P_{out} = output power to antenna in mW;

G = gain of antenna in linear scale, $\pi = 3.1416$;

R = distance between observation point and center of the radiator in cm.

Test Channel	Frequency	Maximum output power. Antenna port				Total Power		LIMIT
		(PK) (dBm)		(AV) (dBm)		(PK)	(AV)	
	(MHz)	ANT A	ANT B	ANT A	ANT B	dBm	dBm	dBm
Low	2412	8.93	8.47	5.68	5.34	11.72	8.52	30
Middle	2438	8.57	8.13	5.21	5.05	11.37	8.14	30
High	2464	8.76	8.31	5.42	5.28	11.55	8.36	30

ANT A

Frequency (MHz)	Target power W/ tolerance (dBm)	Max tune up power tolerance (dBm)	Output power to antenna (mW)	Antenna Gain(dBi)	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)	Result
2412	8 ±1.0	9.0	7.94	2.408	0.0028	1.0	Pass
2438	8±1.0	9.0	7.94	2.408	0.0028	1.0	Pass
2464	8 ±1.0	9.0	7.94	2.408	0.0028	1.0	Pass

ANT B

Frequency (MHz)	Target power W/ tolerance (dBm)	Max tune up power tolerance (dBm)	Output power to antenna (mW)	Antenna Gain(dBi)	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)	Result
2412	8 ±1.0	9.0	7.94	2.408	0.0028	1.0	Pass
2438	8±1.0	9.0	7.94	2.408	0.0028	1.0	Pass
2464	8 ±1.0	9.0	7.94	2.408	0.0028	1.0	Pass

ANT A+ANT B

Frequency (MHz)	Power Density at R=20cm (mW/cm ²) ANT A	Power Density at R=20cm (mW/cm ²) ANT B	Power Density at R=20cm (mW/cm ²) ANT A+ANT B	Limit (mW/cm ²)	Result
2412	0.0028	0.0028	0.0056	1.0	Pass
2438	0.0028	0.0028	0.0056	1.0	Pass
2464	0.0028	0.0028	0.0056	1.0	Pass