1 Safety Human Exposure

1.1 Radio Frequency Exposure Compliance

1.1.1 Electromagnetic Fields

RESULT: Pass

Test Specification

Test standard : CFR47 FCC Part 2: Section 2.1093 CFR47 FCC Part 1: Section 1.1310

FCC KDB Publication 447498 v06, section 7 RSS-102 Issue 5 March 2015, section 2.5.1

> FCC requirements

EUT RF Exposure Evaluation operations

Frequency	Maximum Cond	Threshold	Vandiat	
band(MHz)	dBm	mW	power @5mm (mW)	Verdict
2402-2480	2.40	1.7	10	Compliant

▶ IC requirements: The EUT shall comply with the requirement of RSS-102 section 2.5.1.

Table 1: SAR evaluation – Exemption limits for routine evaluation based on frequency and separation distance 4,5

Frequency	Exemption Limits (mW)				
(MHz)	At separation	At separation	At separation At separation		At separation
	distance of	distance of	distance of	distance of	distance of
	≤5 mm	10 mm	15 mm	20 mm	25 mm
≤300	71 mW	101 mW	132 mW	162 mW	193 mW
450	52 mW	70 mW	88 mW	106 mW	123 mW
835	17 mW	30 mW	42 mW	55 mW	67 mW
1900	7 mW	10 mW	18 mW	34 mW	60 mW
2450	4 mW	7 mW	15 mW	30 mW	52 mW
3500	2 mW	6 mW	16 mW	32 mW	55 mW
5800	1 mW	6 mW	15 mW	27 mW	41 mW

Frequency	Exemption Limits (mW)				
(MHz)	At separation distance of 30 mm	At separation distance of 35 mm	At separation distance of 40 mm	At separation distance of 45 mm	At separation distance of ≥50 mm
≤300	223 mW	254 mW	284 mW	315 mW	345 mW
450	141 mW	159 mW	177 mW	195 mW	213 mW
835	80 mW	92 mW	105 mW	117 mW	130 mW
1900	99 mW	153 mW	225 mW	316 mW	431 mW
2450	83 mW	123 mW	173 mW	235 mW	309 mW
3500	86 mW	124 mW	170 mW	225 mW	290 mW
5800	56 mW	71 mW	85 mW	97 mW	106 mW

a) EUT RF Exposure Evaluation standalone operations

Frequency	Maximum radiated power*		Threshold power @5mm		Verdict
band(MHz)	dBm	mW	dBm	mW	
2402-2480	3.20	2.09	6.02	4	Compliant
*EIRP is higher than conducted power and used for evaluation. The antenna gain is 0.8dBi.					