

Safety Human Exposure

1.1 Radio Frequency Exposure Compliance

1.1.1 Electromagnetic Fields

RESULT:

Pass

Report No.	: CN232NV4 004
Test Specification	
Test item	: NFC Door Handle
Identification / Type No.	: HH4
FCC ID	: IYZHH4
IC	: 2701A-HH4
HVIN	: HH4
PMN	: NFC Door Handle
Test standard	: CFR47 FCC Part 2: Section 2.1093 CFR47 FCC Part 1: Section 1.1310 FCC KDB 447498 D04 Interim General RF Exposure Guidance v01 RSS-102 Issue 5

➤ **FCC Part 1.1310, Part 2.1093**

The Maximum E-field is 64.55dBuV/m@3m, i.e. EIRP -30.68dBm (0.0008mW), which much lower than 1mW, As per section 2.1.2_1-mW Test Exemption of KDB 447498 D04, EUT is excluded from SAR evaluation.

➤ **RSS-102 section 2.5.1.**

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

Frequency (MHz)	Exemption Limits (mW)				
	At separation distance of ≤5 mm	At separation distance of 10 mm	At separation distance of 15 mm	At separation distance of 20 mm	At separation distance of 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 (MHz)	Exemption Limits (mW)				
	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

EUT RF Exposure Evaluation standalone operations

Operating Mode	*Max. Power incl. tune-up (dBm)	Antenna Gain (dBi)	Distance (mm)	The higher of the conducted Power or e.i.r.p. (mW)	Threshold power (mW)	Verdict
RF ID	-30.68	0	5	0.0008	71	Pass

* The Maximum E-field is 64.55dBuV/m@3m, i.e. EIRP -30.68dBm (0.0008mW), much far below than the threshold power.

Conclusion: SAR test is exempted.