

# Safety Human Exposure

## 1.1 Radio Frequency Exposure Compliance

### 1.1.1 Electromagnetic Fields

RESULT:

Pass

|                           |   |                                                                                                                                                           |
|---------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Report No.                | : | CN232NV4 002                                                                                                                                              |
| 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<br>CFR47 FCC Part 1: Section 1.1310<br>FCC KDB 447498 D04 Interim General RF Exposure<br>Guidance v01<br>RSS-102 Issue 5 |

➤ **FCC Part 1.1310, Part 2.1093**

The Maximum E-field is [69.67dBuV/m@3m](#), i.e. EIRP -25.6dBm (0.003mW), 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<sup>4,5</sup>

| 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          | -25.6                           | 0                  | 5             | 0.003                                              | 71                   | Pass    |

\* The Maximum E-field is [69.67dBuV/m@3m](#), i.e. EIRP -25.63dBm (0.003mW)

Conclusion: SAR test is exempted.