RF Exposure

FCC ID : BEJNT-24CR670

IC : 2703H-24CR670

RF Exposure Evaluation Exemption for FCC

In accordance with FCC KDB Publication 447498 D01 V06 Clause 4.3.1, b) 1)

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances >50 mm are determined by:

For transmit frequencies below 100 MHz:

In accordance with FCC KDB Publication 447498 D01 V05R02 Clause 4.3.1 c), 1) For test separation distances >50 mm and <200 mm, the power threshold at the corresponding test separation distance at 100 MHz in section 4.3.1 step b) is multiplied by $[1 + \log(100/f(MHz))]$

This table is for devices with a separation greater than 50 mm

| MHz | Max Power [dBm] | Duty Cycle [%] | EUT EIRP [mW] | Min Sep [mm] | SAR Exc Threshold at 50mm 4.3.1 a) [mW] | SAR Exclusion threshold per 4.3.1 b)1) [mW] | SAR Exclusion threshold per 4.3.1 c) 1) [mW] | Result | Notes |
|-------|-----------------------|----------------------|------------------|--------------------|---|---|---|--------|-------|
| 0.125 | -19.28 | 100 | 0.01180 | 200 | 474.3 | 574.3 | 2241.7 | Exempt | Peak |
| 13.56 | -26.12 | 100 | 0.00244 | 200 | 474.3 | 574.3 | 1072.7 | Exempt | Peak |

EUT EIRP << SAR exclusion threshold per 4.3.1 c) 1)

RF Exposure Evaluation Exemption for IC - 13.56 MHz

Per RSS-102 issue 5, section 2.5.1 as reproduced below:

2.5.1 Exemption from Routine Evaluation Limits – SAR Evaluation

SAR evaluation is required if the separation distance between the user and/or bystander and the antenna and/or radiating element of the device is less than or equal to 20 cm, except when the device operates at or below the applicable output power level (adjusted for tune-up tolerance) for the specified separation distance defined in below table:

| | Exemption Limits [mW] | | | | | | | | |
|--------------------|---------------------------|---------------------------|---------------------------|---------------------------|------------------------------------|--|--|--|--|
| Frequency [MHz] | Separation distance of | Separation distance of | Separation distance of | Separation distance of | Separation distance of 25 mm | | | | |
| [] | ≤ 5 mm | 10 mm | 15 mm | 20 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 | | | | |

| | Exemption Limits (mW) | | | | | | | | |
|-----------|-----------------------|-------------|-------------------------|------------|-------------|--|--|--|--|
| Frequency | Separation | Separation | Separation | Separation | Separation | | | | |
| [MHz] | distance of | distance of | distance of distance of | | distance of | | | | |
| | 30 mm | 35 mm | 40 mm | 45 mm | ≥ 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 | | | | |

Output power level shall be the higher of the maximum conducted or equivalent isotropically radiated power (e.i.r.p.) source-based, time-averaged output power. For controlled use devices where the 8 W/kg for 1 gram of tissue applies, the exemption limits for routine evaluation in Table 1 are multiplied by a factor of 5. For limb-worn devices where the 10 gram value applies, the exemption limits for routine evaluation in Table 1 are multiplied by a factor of 2.5. If the operating frequency of the device is between two frequencies located in Table 1, linear interpolation shall be applied for the applicable separation distance. For test separation distance less than 5 mm, the exemption limits for a separation distance of 5 mm can be applied to determine if a routine evaluation is required.

For medical implants devices, the exemption limit for routine evaluation is set at 1 mW. The output power of a medical implants device is defined as the higher of the conducted or e.i.r.p to determine whether the device is exempt from the SAR evaluation

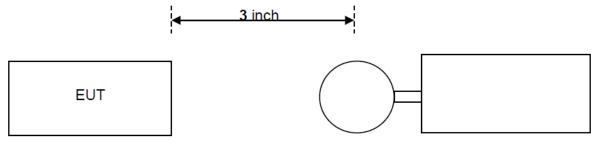
| Mode | Frequency (MHz) | Field Strength (dBuV/m) | Max. Power (mW) | Tune-Up Tolerance | Radiated Power (e.i.r.p.) (mW) | Min. test separation distance (mm) | Limits of RF Exposure Evaluation (mW) | Result |
|------|--------------------|-------------------------------|-----------------------|----------------------|---|---|---|--------|
| RFID | 13.56 | 29.11* | 0.00244 | ±1dB | 0.00308 | 20 | 345 | Pass |

NOTE:

1. Note: * Please refer report No. RP-9208 Rev. 0 for testing detail.

2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

RF Exposure Evaluation Exemption for IC – 125 kHz



Field Probe

The basic restrictions are based on internal induced electric field or SAR. The relationship between the induced field and that of the exposure area is proportional; thus, in cases where the limbs are the primary point of exposure, the induced field would be less than that induced in the trunk of the human body.

When assessing compliance at the compliance distance, where limb exposure is the primary exposed condition, the following table may be used for relaxation of the RSS-102 nerve stimulation RLs.

| Limb Exposure Limit Relaxation | | | | | | | | | |
|--------------------------------|-------------------|--------------------------------|--------------------------------|--|--|--|--|--|--|
| Exposure Condition | Relaxation Factor | Electric Field (V/m R.M.S.) | Magnetic Field (A/m R.M.S.) | | | | | | |
| Whole Body / Torso / Head | 1.0 | 83 | 90 | | | | | | |
| Leg | 1.5 | 124.5 | 135 | | | | | | |
| Arm | 2.5 | 207.5 | 225 | | | | | | |
| Hand/Foot | 5.0 | 415 | 450 | | | | | | |

Nerve Stimulation Exposure Test Result

3 inch

H-field measurement result:

| Frequency | | H-Field measurements [A/m] | | | | | Max | Limit | Result |
|-----------|--------|----------------------------|--------|--------|--------|--------|--------|-------|--------|
| (MHz) | Тор | Bottom | Left | Right | Front | Rear | [A/m] | [A/m] | Nesuit |
| 0.125 | 0.0567 | 0.0562 | 0.0581 | 0.0562 | 0.0581 | 0.0562 | 0.0581 | 90 | Pass |

E-field measurement result:

| Frequency | | E-Field measurements [V/m] | | | | | | Limit | Result |
|-----------|--------|----------------------------|--------|--------|--------|--------|--------|-------|--------|
| (MHz) | Тор | Bottom | Left | Right | Front | Rear | [V/m] | [V/m] | Result |
| 0.125 | 0.3795 | 0.3996 | 0.3887 | 0.3846 | 0.3887 | 0.3834 | 0.3996 | 83 | Pass |