| Reference Device | Variant Device | Key differences |
|---|--|--|
| Model: GAT ECO.Lock 7102 NW F/ISO FCC ID: NC4-LM100 | Model: GAT ECO.Lock 7102 NW F/ISO ICLS FCC ID: NC4-LM100 | Included HID's next generation single chip secure element (IC11) |
| FCC ID. INC4-LIVI100 | Model: LM100 | Included Secure Element and Motor driver (IC5 |
| | FCC ID: NC4-LM100 | and IC10) |

| Rule Part | Test item | Data Reference | Comments |
|----------------|---|----------------|--|
| DTS | | | |
| FCC 15.247 (a) | 6 dB Bandwidth | Υ | Pointer to 75856RRF.004 |
| FCC 15.247 (b) | Maximum output power and antenna gain | Υ | Pointer to 75856RRF.004 |
| FCC 15.247 (c) | Band-edge emissions compliance (Transmitter) | Υ | Pointer to 75856RRF.004 |
| FCC 15.247 (d) | Power spectral density | Υ | Pointer to 75856RRF.004 |
| FCC 15.247 (e) | Emission limitations radiated (Transmitter) | N | Pointer to 75856RRF.007 for LM100 and 75856RRF.010 for GAT ECO.Lock 7102 NW F/ISO ICLS |
| DXX | | | |
| FCC 15.225 (a) | Field strength of emissions within the band 13.553 MHz -13.567 MHz | N | Pointer to 75856RRF.008 for LM100 and 75856RRF.011 for GAT ECO.Lock 7102 NW F/ISO ICLS |
| FCC 15.225 (b) | Field strength of emissions within the band 13.410 - 13.553 MHz and 13.567 – 13.710 MHz | N | Pointer to 75856RRF.008 for LM100 and 75856RRF.011 for GAT ECO.Lock 7102 NW F/ISO ICLS |
| FCC 15.225 (c) | Field strength of emissions within the band 13.110 - 13.410 MHz and 13.710 – 14.010 MHz | N | Pointer to 75856RRF.008 for LM100 and 75856RRF.011 for GAT ECO.Lock 7102 NW F/ISO ICLS |
| FCC 15.225 (d) | Field strength of emissions outside of the band 13.110 MHz -14.010 MHz | N | Pointer to 75856RRF.008 for LM100 and 75856RRF.011 for GAT ECO.Lock 7102 NW F/ISO ICLS |
| FCC 15.225 (e) | Frequency tolerance of the carrier signal | Υ | Pointer to 75856RRF.005 |
| COLOCATION | | | |

| FCC 15.31 (h), | Emission limitations radiated (Transmitter) | N | Pointer to 75856RRF.009 for LM100 and |
|-----------------|---|---|---------------------------------------|
| FCC 15.209 (a), | | | 75856RRF.012 for GAT ECO.Lock 7102 NW |
| 15.225 (d), | | | F/ISO ICLS |
| 15.247 (d) | | | |

Acceptance Criteria for all test cases

FCC Part 15.247 (DTS)

For the same radiated test conditions, It has been taken the considered most critical range of harmonic emission of the carrier and compared the value of the first evaluable harmonic, with the difference between the reference and the variant being <3 dB.

The previous information can be confirmed by the reports number 75856RRF.004, and 75856RRF.007 and 75856RRF.010.

75856RRF.004, page 37

| Freq Rng (GHz) | Freq (MHz) | Unwanted Freq (MHz) | Unwanted Lvl (dBµV/m) | Pol | Detector |
|-------------------|------------|------------------------|--------------------------|-----|----------|
| [3, 17] | 2402.00000 | 4804.460 | 49.50 | Н | PK |
| [3, 17] | 2402.00000 | 12008.860 | 51.86 | V | PK |
| [3, 17] | | 4879.500 | 47.84 | V | PK |
| [3, 17] | 2440.00000 | 7319.140 | 51.70 | Н | PK |
| [3, 17] | | 12199.540 | 52.75 | V | PK |
| [3, 17] | | 4959.440 | 51.34 | Н | PK |
| [3, 17] | 2480.00000 | 7439.120 | 50.39 | Н | PK |
| [3, 17] |] [| 12401.000 | 52.75 | V | PK |

75856RRF.007 Freq Rng (GHz) Unwanted Freq (MHz) Unwanted LvI Freq (MHz) Pol Detector (dBµV/m) 4804.320 50.73 Н PK 2402.00000 12008.720 51.54 PK Н 4879.500 48.80 V PΚ 2440.00000 7319.280 Н 51.91 PΚ [3, 17] 12200.800 52.65 ٧ PΚ V 4959.440 49.84 PΚ 51.55 Н 2480.00000 7440.660 PΚ ٧ 12398.480 52.17 PΚ

75856RRF.010

| Freq Rng (GHz) | Freq (MHz) | Unwanted Freq (MHz) | Unwanted LvI (dBµV/m) | Pol | Detector | |
|-------------------|------------|------------------------|--------------------------|-----|----------|---------|
| [3, 17] | | 4803.620 | 50.80 | V | PK | |
| [3, 17] | 2402.00000 | 12011.380 | 51.42 | Н | PK | |
| [3, 17] | | 14410.280 (*) | 55.56 | Н | PK | |
| [3, 17] | | 4879.500 | 50.66 | V | PK | |
| [3, 17] | 2440.00000 | 7319.840 | 51.29 | V | PK | |
| [3, 17] | | 12198.700 | 52.11 | V | PK | |
| [3, 17] | | 4960.140 | 51.21 | V | PK | \prod |
| [3, 17] | 2480.00000 | 7439.260 | 53.97 | Н | PK | |
| [3, 17] | | 12401.140 | 51.82 | Н | PK | |

FCC Part 15.225 (DXX)

For the same radiated test conditions, It has been evaluated the value of the carrier, with the difference between the reference and the variant being <3 dB.

The previous information can be confirmed by the reports number 75856RRF.005, and 75856RRF.008 and 75856RRF.011.

ISO A

75856RRF.005, page 17:

Modulation: ISO 14443A

Results

- Band 13.553 -13.567 MHz

| Frequency (MHz) | Maximum field strength (dBμV/m) measured at 3 m (quasi-peak detector) | Maximum field strength (dBµV/m) extrapolated to 30 m (40 dB/decade) |
|-----------------|---|---|
| 13.560 | 18.96 | -21.04 |

75856RRF.008, page 14

Modulation: ISO 14443A

Results

- Band 13.553 -13.567 MHz

| Frequency (MHz) | Maximum field strength (dBμV/m) measured at 3 m (quasi-peak detector) | Maximum field strength (dBμV/m) extrapolated to 30 m (40 dB/decade) |
|-----------------|---|---|
| 13.560 | 17.88 | -22.12 |

75856RRF.011, page 14

Modulation: ISO 14443A

Results

- Band 13.553 -13.567 MHz

| Frequency (MHz) | Maximum field strength (dBμV/m) measured at 3 m (quasi-peak detector) | Maximum field strength (dBμV/m) extrapolated to 30 m (40 dB/decade) |
|-----------------|---|---|
| 13.560 | 18.23 | -21.77 |

ISO V

75856RRF.005, page 20:

Modulation: ISO 15693

Results

- Band 13.553 -13.567 MHz

| Frequency (MHz) | Maximum field strength (dBμV/m) measured at 3 m (quasi-peak detector) | Maximum field strength (dBμV/m) extrapolated to 30 m (40 dB/decade) |
|-----------------|---|---|
| 13.560 | 18.81 | -21.19 |

75856RRF.008, page 14

Modulation: ISO 15693

Results

- Band 13.553 -13.567 MHz

| Frequency (MHz) | Maximum field strength (dBμV/m) measured at 3 m (quasi-peak detector) | Maximum field strength (dBμV/m) extrapolated to 30 m (40 dB/decade) |
|-----------------|---|---|
| 13.560 | 17.63 | -22.37 |

75856RRF.011, page 14

Modulation: ISO 15693

Results

- Band 13.553 -13.567 MHz

| Frequency (MHz) | Maximum field strength (dBμV/m) measured at 3 m (quasi-peak detector) | Maximum field strength (dBµV/m) extrapolated to 30 m (40 dB/decade) |
|-----------------|---|---|
| 13.560 | 16.33 | -23.67 |