



# TEST REPORT

## No. AR19-0043508-01

performed in accordance with

FCC Rules: Code of Federal Regulations (CFR) no. 47  
Part 15 Subpart C Section 15.231

|                 |                 |
|-----------------|-----------------|
| PRODUCT         | LPD transmitter |
| MODEL(s) TESTED | ON3EBD/A        |
| FCC ID          | PMLON3EBDA      |
| TRADE MARK(s)   | NICE            |

|           |  |
|-----------|--|
| APPLICANT | NICE S.p.A. ~ Via Pezza alta, 13 ~ I-31046 Rustignè di Oderzo (TV) |
|-----------|--|

|             |  |  |
|-------------|--|--|
| Tested by   | Robertino Torri <i>[Laboratory technician]</i> |  |
| Approved by | Giovanni Di Turi <i>[Laboratory manager]</i>   |  |

### Revision Sheet

| Release No. | Date       | Revision Description   |
|-------------|------------|--|
| Rev. 0      | 2019-09-12 | First edition<br>Digital signed - AR19-0043508-01_TR_FCC Part C 15.231 - NICE - ON3EBD_A |

The results of tests and checks reported in this Test Report refer exclusively to the samples tested and described in the Report itself.

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The authenticity of this Test Report and its contents can be verified by contacting IMQ S.p.A., responsible for this Test Report.



## 1. GENERAL DATA

| <b>SAMPLE</b>  |   |   |  |  |
|--|---|---|--|--|
| Samples received on  | 2019-09-03  | (Item(s) sampled and sent by applicant) |  |  |
| IMQ reference samples  | BEM   | 96821                                   |  |  |
| Samples tested No.   | 1   |   |  |  |
| Object under analysis recognition  | <b>Not carried out</b>  |   |  |  |
|  | Except where stated, characteristics of products were taken from client description and were not verified by the laboratory |   |  |  |
| Date of acceptance of test item  | 2019-09-03  |   |  |  |
| <b>TEST LOCATION</b>   |   |   |  |  |
| Testing dates  | 2019-09-03  |   |  |  |
| Testing laboratory.  | IMQ S.p.A. - Via Quintiliano, 43 – I-20138 Milano   |   |  |  |
| Testing site   | Via Quintiliano, 43 – I-20138 Milano  |   |  |  |
| <b>ENVIRONMENTAL CONDITIONING</b>  |   |   |  |  |
| Parameter  | <b>Measured</b>   |   |  |  |
| Ambient Temperature  | 22.5 °C   |   |  |  |
| Relative Humidity  | 47 %  |   |  |  |
| Atmospheric Pressure   | 965 mbar  |   |  |  |
| The laboratory is monitored by a continuous environmental conditions measurements system. Temperature, humidity and pressure data are recorded on a weekly basis and stored in local archive.  |   |   |  |  |
| <b>REMARKS</b>   |   |   |  |  |
| Throughout this report a point is used as the decimal separator.<br>The ability or reliability of this product to perform its intended function in a particular application has not been investigated.<br>IMQ declines any responsibility derived from missing or wrong information provided aside by the applicant. |   |   |  |  |

## 2. REFERENCE DOCUMENT

| DOCUMENT   | DATE | TITLE  |
|--|------|--|
| <input checked="" type="checkbox"/> 47 CFR Part 15 | 2015 | Radio Frequency Device   |
| <input checked="" type="checkbox"/> ANSI C63.4     | 2014 | Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz |
| <input checked="" type="checkbox"/> ANSI C63.10    | 2013 | American National Standard for Testing Unlicensed Wireless Devices   |

### 3. EQUIPMENT UNDER TEST (EUT) DETAILS

#### GENERAL DATA (According to manufacturer declaration)

| MODEL (basic)   | Description     |
|-----------------|-----------------|
| ON3EBD/A        | LPD transmitter |
| MODEL (derived) | Description     |
| /               | /               |

|        |            |
|--------|------------|
| FCC ID | PMLON3EBDA |
|--------|------------|

|              |  |
|--------------|--|
| Manufacturer | NICE S.p.A. ~ Via Pezza alta, 13 ~ I-31046 Rustignè di Oderzo (TV) |
|--------------|--|

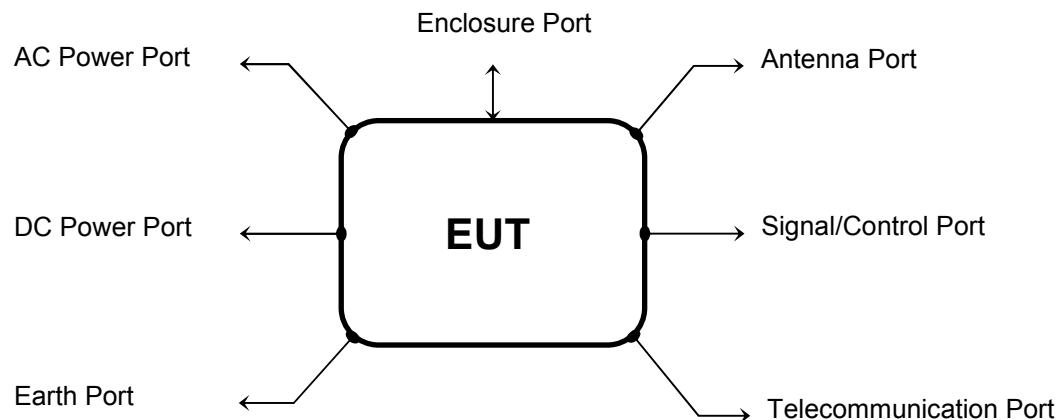
|                         |                                     |
|-------------------------|-------------------------------------|
| Type of equipment       | LPD transmitter                     |
| Operating frequency     | 433.92 MHz                          |
| Max radiated peak power | 81.04 dB $\mu$ V/m (at 3m distance) |
| Modulation              | 2GFSK / AM-OOK                      |
| Channel Spacing         | /                                   |
| Channel bandwidth       | 200 kHz                             |
| Antenna                 | Integrated (strip line on PCB)      |
| Number of channels      | /                                   |

Note: The receiver can only memorize transmitter belonging to one of the following encoding families:  
“BD” encoding or “O-code/A” encoding

|   |   |
|---|---|
| “BD”<br>With these encoding families, reception and transmission are supported.<br>Modulation: 2GFSK (BT = 0.5) | “O-code/A”<br>With these encoding families, only reception is supported.<br>Modulation AM-OOK |
|---|---|

## 4. TEST CONFIGURATION OF EQUIPMENT UNDER TEST

### EUT PORTS



| Port            | Description                           | Max length |
|-----------------|---------------------------------------|------------|
| Enclosure       | Plastic                               | /          |
| AC power        | /                                     | /          |
| DC power        | 3 V DC by CR2032 type lithium battery | /          |
| Signal/ Control | /                                     | /          |
| Antenna         | Integrated (strip line on PCB)        | /          |

### STATE OF THE EUT DURING TESTS

| Ref. | Transmission Mode | Description   |
|------|-------------------|---|
| #1   | CW                | Continuous unmodulated transmission mode (constant tone)          |
| #2   | Modulated         | Continuous modulated transmission (PBR9 duty cycle close to 100%) |
| #3   | Normal operating  | Receiving mode / Normal transmission (button push)                |

### SUPPORT EQUIPMENT

Defined as equipment needed for correct operation or loading of the EUT, but not considered as tested:

| Equipment | Manufacturer | Model |
|-----------|--------------|-------|
| /         | /            | /     |



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## ELECTROMAGNETICALLY RELEVANT COMPONENTS

| Component | No. | Manufacturer | Model       |
|-----------|-----|--------------|-------------|
| PCB board | 1   | NICE         | 673-A - R10 |

## RFI SUPPRESSION DEVICES

| Component | No. | Manufacturer | Model |
|-----------|-----|--------------|-------|
| /         | /   | /            | /     |

## EMI PROTECTION DEVICES

| Component | No. | Manufacturer | Model |
|-----------|-----|--------------|-------|
| /         | /   | /            | /     |

## EUT TECHNICAL DOCUMENTATION

| Document | Reference |
|----------|-----------|
| /        | /         |



## 5. METHODS OF MEASUREMENT

All compliance measurements have been carried out using the procedures described in the standard ANSI C63.4:2014, ANSI C63.10:2013 and Section 15.31 of CFR47 Part 15 – Subpart A (General).

Additional test requirements have been adopted according to the reference Section indicated in the § 6 of this test report.

### FREQUENCY RANGE INVESTIGATED

Radiated emission tests: from 30 MHz to tenth harmonic of fundamental.

## 6. SUMMARY OF TEST RESULTS

| POSSIBLE TEST CASE VERDICTS:                |      |
|---|------|
| Test object meets the requirement           | PASS |
| Test object does not meet the requirement   | FAIL |
| Test case does not apply to the test object | N.A. |
| Test not performed                          | N.P. |

| CFR47 Part 15     | TITLE   | RESULT |
|-------------------|---|--------|
| § 15.203          | Antenna Requirements                                    | PASS   |
| § 15.207 (a)      | Conducted Emission                                      | N.A.   |
| § 15.205 - 15.209 | Radiated Emission                                       | PASS   |
| § 15.231 (b)      | Field Strengths   | PASS   |
| § 15.231 (a) (1)  | Duration of manually activated transmission             | PASS   |
| § 15.231 (a) (2)  | Duration of automatically activated transmission        | N.A.   |
| § 15.231 (a) (3)  | Transmission at predetermined / regular intervals       | N.A.   |
| § 15.231 (a) (4)  | Pendency of transmission used during emergencies        | N.A.   |
| § 15.231 (a) (5)  | Transmission of set-up information for security systems | N.A.   |
| § 15.231 (c)      | Bandwidth of the emission                               | PASS   |
| § 15.231 (d)      | Frequency stability in band 40.66÷40.70 MHz             | N.A.   |

| PERIODIC OPERATION – PERIODIC RATE EXCEEDING THAT SPECIFIED IN PARAGRAPH 15.231 (A) |  |        |
|---|--|--------|
| CFR47 Part 15   | TITLE  | RESULT |
| § 15.209 (a) (f)<br>§ 15.231 (e)  | Radiated Emission  | N.A.   |
| § 15.231 (e)  | Duration of transmission & periods between transmissions | N.A.   |



## 7. TEST RESULTS

### 7.1 ANTENNA REQUIREMENTS

#### TEST REQUIREMENT

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

|               |            |
|---------------|------------|
| Testing dates | 2019-09-04 |
|---------------|------------|

#### Antenna specifications

|                                |             |
|--------------------------------|-------------|
| N° of authorized antenna types | 1           |
| Antenna type                   | Integrated  |
| Connector type                 | /           |
| Maximum total gain             | /           |
| External power amplifiers      | Not present |

Note: /

#### TEST RESULT

The EUT meets the requirements of section 15.203 and 15.204



## 7.2 RADIATED DISTURBANCES

| TEST REQUIREMENT               |   |
|--------------------------------|---|
| Test setup                     | ANSI C63.4  |
| Test facility                  | Semi-anechoic chamber   |
| Test distance                  | 3 meters  |
| Frequency range                | 30 MHz to tenth harmonic of fundamental (or 1 GHz)  |
| IF bandwidth (below 1,000 MHz) | 120 kHz   |
| IF bandwidth (above 1,000 MHz) | 1 MHz   |
| Deviation to test procedure    | None  |
| Limits                         | sections 15.209 (a) & 15.231 (b)  |
| EUT operating condition        | #2  |
| Remark                         | (*) In accordance with part 15.31 (f) (2), where the measurement distance was specified to be 30 or 300 meters, a correction factor was applied in order to permit measurement to be performed at a separation distance. The applied formula for limits at 3 meter is:<br>Extrapolation (dB) = 40log (300meter / 3meter) = +80db<br>Extrapolation (dB) = 40log (30meter / 3meter) = +40db |
| Testing dates                  | 2019-09-04  |

## TEST RESULT

The EUT meets the requirements of sections 15.209 (a) & 15.231 (b)

## LIMITS FOR SPURIOUS

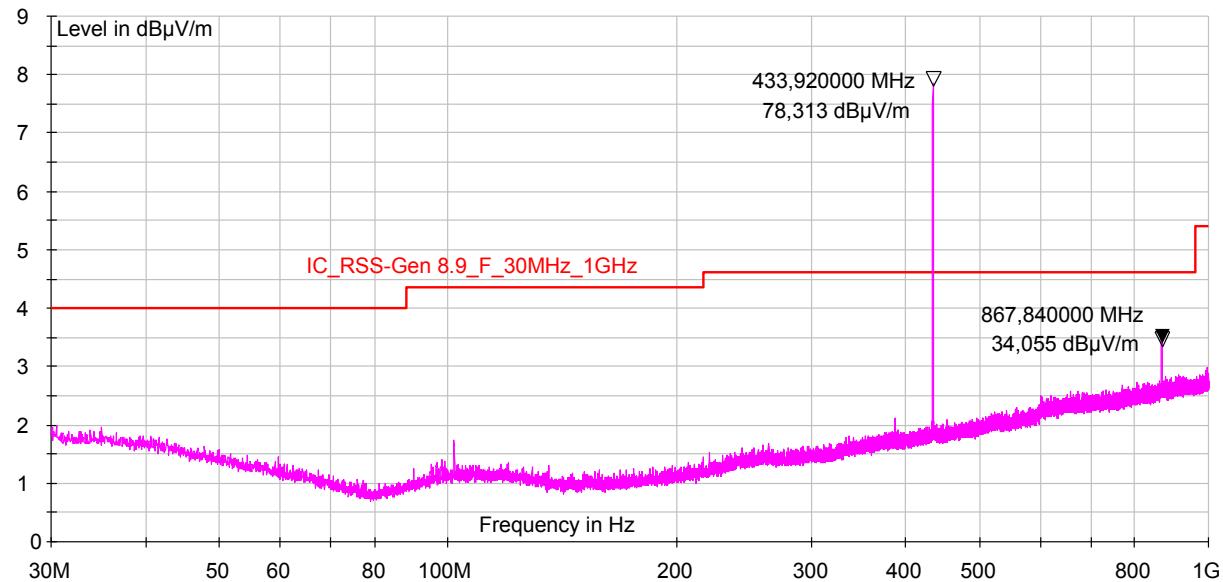
| Band of operations             | Peak (dB $\mu$ V/m)   | Average Limit (dB $\mu$ V/m)                                |
|--------------------------------|---|---|
| Restricted bands (par. 15.205) | 74  | 54  |
| Other bands                    | According to 15.209 or fundamental –20dB (which is greater) | According to 15.209 or fundamental –20dB (which is greater) |

## TEST PROCEDURE

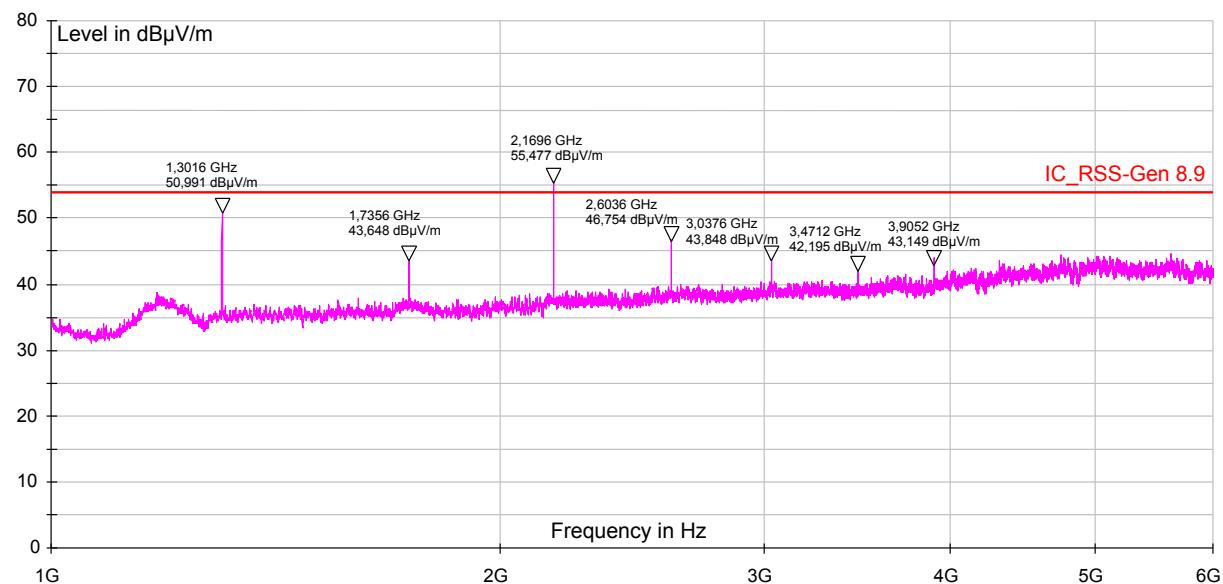
- 1) The EUT was placed on turntable which is 0.8 m above the ground plane
- 2) The turntable shall rotate from 0° to 360° degrees to determine the position of maximum emission level.
- 3) The EUT is positioned 3 m away from the receiving antenna which varied from 1 to 4 m to find the highest emission.
- 4) The measurements were made with the detector set to PEAK and AVERAGE amplitude within a bandwidth of 100 kHz below 1000 MHz and 1 MHz above 1000 MHz.
- 5) The receiving antenna was positioned in both horizontal and vertical polarization.
- 6) The measurements with Quasi-Peak detector, below 1000 MHz are performed only for frequencies for which the Peak values are  $\geq$  (Q.P. limit – 6 dB).

## MEASUREMENTS RESULTS

### RANGE: 30 ÷ 1000 MHz



### RANGE: >1000 MHz



**AM-OOK MODULATION**

| Frequency (MHz)      | PK (dB $\mu$ V/m) | AVcf (dB) | AV (dB $\mu$ V/m) | AV LIMIT (dB $\mu$ V/m) | MARGIN (dB) |
|----------------------|-------------------|-----------|-------------------|-------------------------|-------------|
| 433.920(fundamental) | 78.313            | -6.02     | 72.293            | 80.82                   | 8.527       |
| 867.840              | 34.055            | -6.02     | 28.035            | 54                      | 25.965      |
| 1301.60              | 50.991            | -6.02     | 44.971            | 54                      | 9.029       |
| 1735.60              | 43.648            | -6.02     | 37.628            | 54                      | 16.372      |
| 2169.60              | 55.477            | -6.02     | 49.457            | 54                      | 4.543       |
| 2603.60              | 46.754            | -6.02     | 40.734            | 54                      | 13.266      |
| 3037.60              | 43.848            | -6.02     | 37.828            | 54                      | 16.172      |
| 3471.20              | 42.195            | -6.02     | 36.175            | 54                      | 17.825      |
| 3905.60              | 43.149            | -6.02     | 37.129            | 54                      | 16.871      |

**2GFSK MODULATION**

| Frequency (MHz)      | PK (dB $\mu$ V/m) | AVcf (dB) | AV (dB $\mu$ V/m) | AV LIMIT (dB $\mu$ V/m) | MARGIN (dB) |
|----------------------|-------------------|-----------|-------------------|-------------------------|-------------|
| 433.920(fundamental) | 78.313            | -10.4     | 67.913            | 80.82                   | 12.907      |
| 867.840              | 34.055            | -10.4     | 23.655            | 54                      | 30.345      |
| 1301.60              | 50.991            | -10.4     | 40.591            | 54                      | 13.409      |
| 1735.60              | 43.648            | -10.4     | 33.068            | 54                      | 20.932      |
| 2169.60              | 55.477            | -10.4     | 45.077            | 54                      | 8.923       |
| 2603.60              | 46.754            | -10.4     | 36.354            | 54                      | 17.646      |
| 3037.60              | 43.848            | -10.4     | 33.448            | 54                      | 20.552      |
| 3471.20              | 42.195            | -10.4     | 31.795            | 54                      | 22.205      |
| 3905.60              | 43.149            | -10.4     | 32.749            | 54                      | 21.251      |



## 7.4 FIELD STRENGTHS

| TEST REQUIREMENT                  |   |
|-----------------------------------|---|
| <b>Spectrum analyzer settings</b> |   |
| Span                              | Wide enough to capture the peak level of the emission |
| Resolution bandwidth (RBW)        | 100 kHz   |
| Video bandwidth (VBW)             | 300 kHz   |
| Sweep time (SWT)                  | 2.5 ms  |
| Detector function                 | Peak  |
| Trace                             | Max hold  |
| Attenuator                        | /   |
| Deviation to test procedure       | None  |
| EUT operating condition           | #1  |
| Remark                            | None  |
| Testing dates                     | 2019-09-04  |

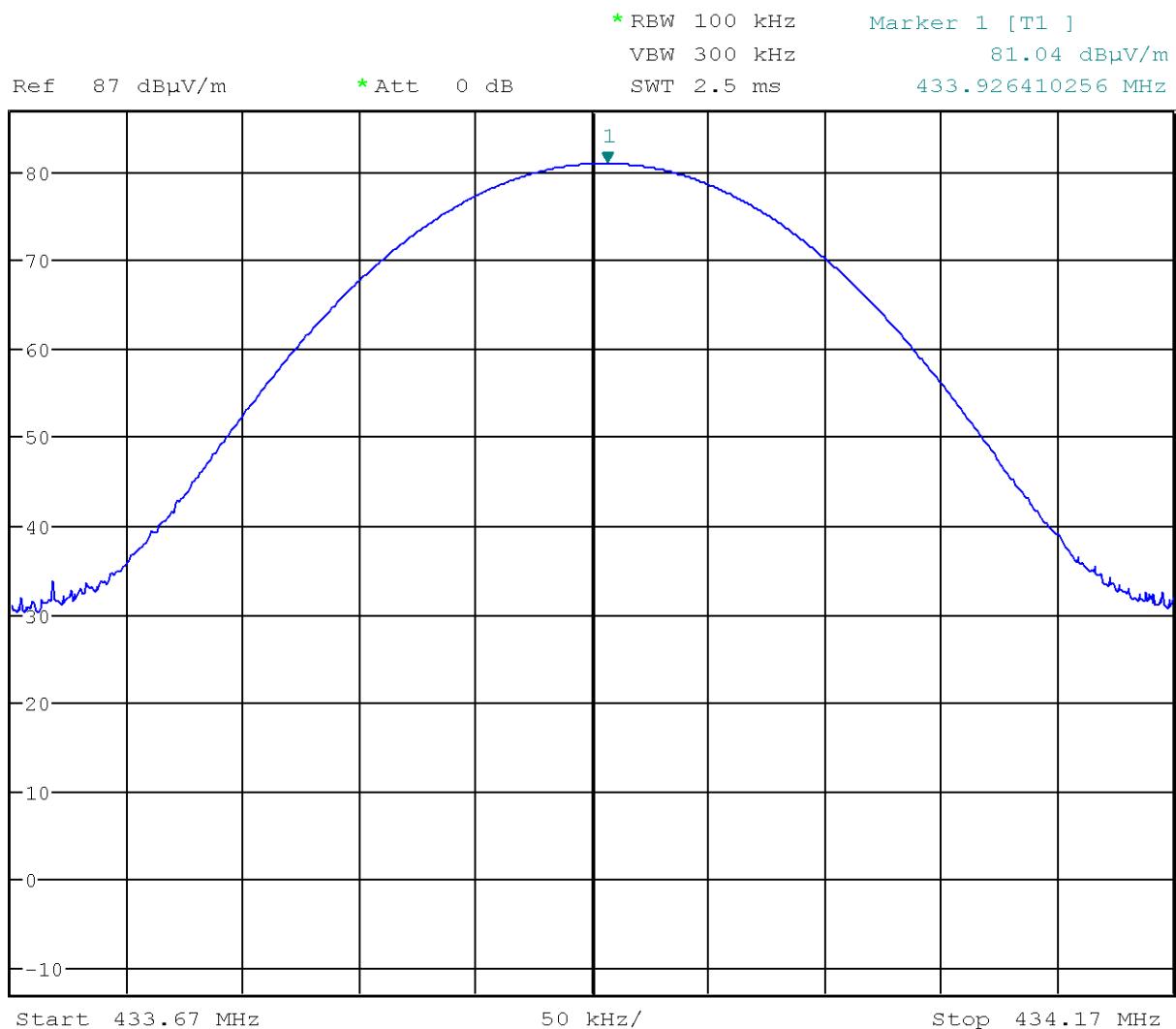
| TEST PROCEDURE   |  |
|--|--|
| <b>Radiated measurements:</b>  |  |
| As the EUT is supplied with a dedicated antenna, the effective radiated power is measured in a 3 m anechoic chamber with the substitution antenna method |  |

| LIMITS  |  |
|---|--|
| For 260-470 MHz: Frequency Strength ( $\mu$ V/m) = $(41.67 \times f) - 7083$                            |  |
| $(41.67 \times 433.92) - 7083 = 10998.4464 \mu$ V/m = 80.83 dB $\mu$ V/m (AV); 100.83 dB $\mu$ V/m (PK) |  |
| Average correction factor: -6.02dB (see page 15 for correction factor determination).                   |  |

| TEST RESULT                                    |  |
|--|--|
| The EUT meets the requirements of § 15.231 (b) |  |

**FIELDS STRENGTH RESULTS (RADIATED)**

| Channel<br>(No.) | Frequency<br>(MHz) | Modulation<br>type | Detector        | Radiated Output<br>Power<br>(at 3m. distance)<br>(dB $\mu$ V/m) | Limit<br>(dB $\mu$ V/m) |
|------------------|--------------------|--------------------|-----------------|---|-------------------------|
| 1                | 433.927            | CW                 | PK              | 81.04   | 100.83                  |
| 1                | 433.927            | AM                 | AV (calculated) | 75.02   | 80.83                   |
| 1                | 433.927            | 2GFSK              | AV (calculated) | 70.64   | 80.83                   |

**Plot 1**


## 7.5 CHARACTERISTICS OF TRANSMISSION

### TEST REQUIREMENT § 15.231 (a)

The provisions of this Section are restricted to periodic operation within the band 40.66 -MHz and above 70 MHz. Except as shown in paragraph (e) of this Section, the intentional radiator restricted to the transmission of a control signal such as those used with alarm systems, door openers, remote switches, etc. Continuous transmissions, voice, video and the radio control of toys are not permitted. Data is permitted to be sent with a control signal. The following conditions shall be met to comply with the provisions for this periodic operation:

- (1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.
- (2) A transmitter activated automatically shall cease transmission within 5 seconds after activation.
- (3) Periodic transmissions at regular predetermined intervals are not permitted. However, polling or supervision transmissions, including data, to determine system integrity of transmitters used in security or safety applications are allowed if the total duration of transmissions does not exceed more than two seconds per hour for each transmitter. There is no limit on the number of individual transmissions, provided the total transmission time does not exceed two seconds per hour.
- (4) Intentional radiators which are employed for radio control purposes during emergencies involving fire, security, and safety of life, when activated to signal an alarm, may operate during the pendency of the alarm condition.
- (5) Transmission of set-up information for security systems may exceed the transmission duration limits in paragraphs (a)(1) and (a)(2) of this section, provided such transmission are under the control of a professional installer and do not exceed ten seconds after a manually operated switch is released or a transmitter is activated automatically. Such set-up information may include data.

|                         |            |
|-------------------------|------------|
| EUT operating condition | #3         |
| Testing dates           | 2019-09-04 |

### LIMITS

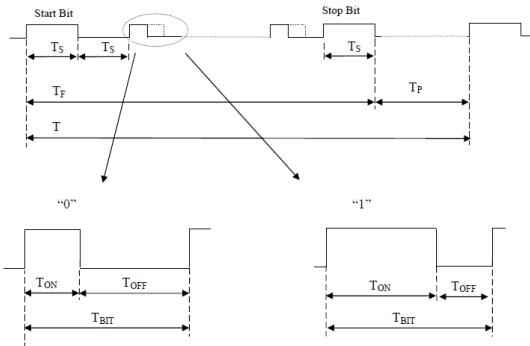
TX time < 5 s

### TEST RESULT

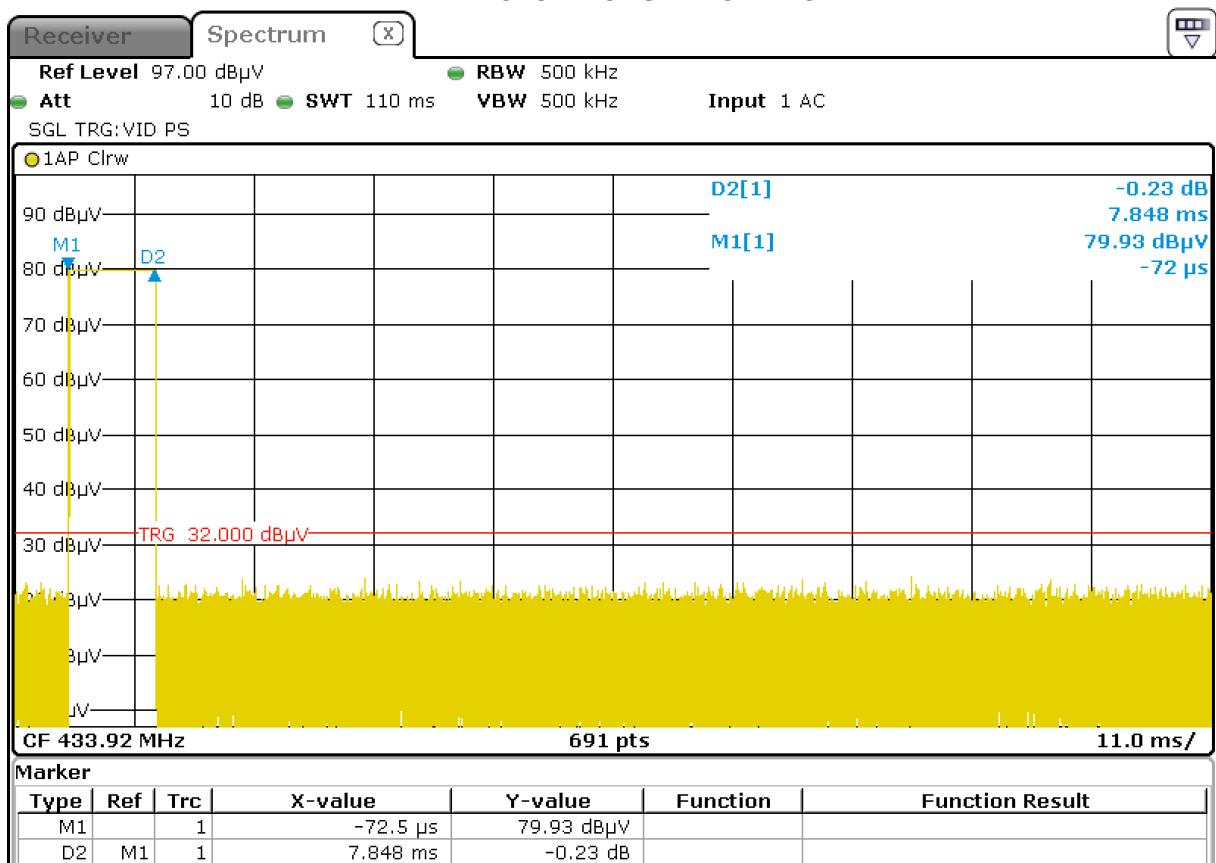
The EUT meets the requirements of sections 15.231 (a)

## MEASUREMENTS RESULTS

The code word is made up of several parts. Each code word contains a Start Bit (0.66ms+0.66ms), 72bit of data and a Stop Bit (0.66ms) followed by a guard period (50.5ms) before another code word can begin.

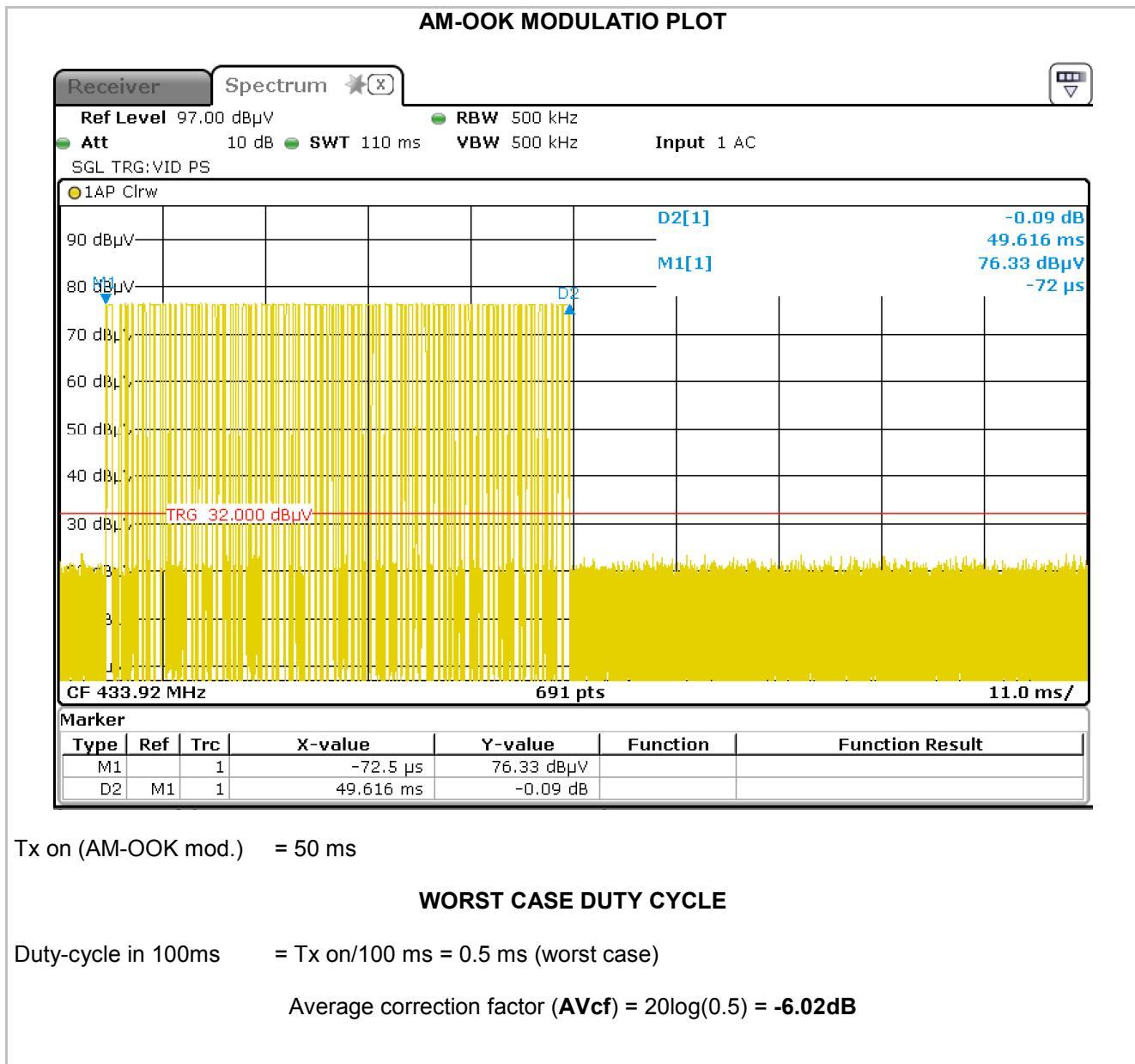


2GFSK MODULATION PLOT



|                     |  |            |           |
|---------------------|--|------------|-----------|
| Frame period        | = 49.5 ms                                  | Pause      | = 50.5 ms |
| Start bit           | = 0.66ms +0.66ms                           | Single bit | = 0.66 ms |
| Impulse type "0"    | = on = 0.22 ms, off = 0.44 ms              |            |           |
| Impulse type "1"    | = on = 0.44 ms, off = 0.22 ms              |            |           |
| Stop bit            | = 0.66 ms                                  |            |           |
| Tx on (GFSK mod.)   | = 0.66 +72*0.44+ 0.66 = 33 ms (worst case) |            |           |
| Duty-cycle in 100ms | = Tx on/100 ms = 0.33 ms (worst case)      |            |           |

$$\text{Average correction factor (AVcf)} = 20\log(0.5) = -10.4\text{dB}$$





## 7.6 BANDWIDTH OF EMISSION IN PERIODIC TRANSMISSION

### TEST REQUIREMENT

|                             |  |
|-----------------------------|--|
| Test setup                  | ANSI C63.4   |
| Test facility               | Semi-Anechoic chamber  |
| Frequency range             | Over 70MHz   |
| Resolution BW               | See next table   |
| Deviation to test procedure | None   |
| Limits                      | 0.25% of the center frequency (in Range 70÷900MHz)<br>0.5 % of the center frequency (for frequencies above 900MHz) |
| EUT operating condition     | #2   |
| Remark                      | None   |
| Testing dates               | 2019-09-04   |

### TEST RESULT

The EUT meets the requirements of sections 15.231 (c)

### ANSI C63.4 SPECIFICATION

#### 13.1.7 Occupied bandwidth measurements

In order to measure the modulated signal properly, a resolution bandwidth that is small compared with the bandwidth required by the procuring or regulatory agency shall be used on the measuring instrument. However, the resolution bandwidth of the measuring instrument shall be set to a value greater than 5% of the bandwidth requirements. When no bandwidth requirements are specified, the minimum resolution bandwidth of the measuring instrument is given in the following table:

| Fundamental frequency | Minimum resolution bandwidth |
|-----------------------|------------------------------|
| 9 kHz to 30 MHz       | 1 kHz                        |
| 30 to 1000 MHz        | 10 kHz                       |
| 1000 MHz to 40 GHz    | 100 kHz                      |

## MEASUREMENTS RESULTS

## BANDWIDTH OF EMISSION (AT -20dB POINTS)



## BANDWIDTH OF EMISSION (MHz)

| Center Frequency | -20dB Bandwidth | Limit (0.25% of CF) | Margin  |
|------------------|-----------------|---------------------|---------|
| 433.924375       | 0.144231        | 1.08481             | 0.94058 |

## 8. MEASUREMENTS TESTS UNCERTAINTY

Unless otherwise stated the uncertainties for the tests and measurements are evaluated in according to IMQ Operational Instruction IO-LAB-001 and IO-LAB-004. and requirement of NIST Technical Note 1297 and NIS 81: 1994 "The Treatment of Uncertainty in EMC Measurements"

The expanded uncertainty was calculated for all measurements and tests listed in this test report according to CISPR 16-4-2 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4-2: Uncertainty in EMC Measurements", with UKAS document LAB 34 and is documented in the quality system accordance to ISO/IEC 17025.

Internal Procedure PG-037 ensures that the requirements for traceability of calibrations, of all test equipment requiring calibration, and calibration intervals are met.

| Methods/Standard       | Parameter                                       | Expanded Uncertainty | Unit | Confidence level | Coverage Factor | Degree of freedom |
|------------------------|---|----------------------|------|------------------|-----------------|-------------------|
| Continuous disturbance | QP detector 9 – 150 kHz                         | 2,47                 | dB   | 95%              | 2,00            | 25                |
|                        | QP detector 150 k – 30 MHz                      | 2,61                 | dB   | 95%              | 2,00            | 26                |
|                        | QP detector using Voltage Probe                 | 2,45                 | dB   | 95%              | 2,00            | 26                |
|                        | QP detector using ISN                           | 3,15                 | dB   | 95%              | 2,00            | > 60              |
|                        | QP detector using Current Probe                 | 2,15                 | dB   | 95%              | 2,00            | 35                |
| Radiated disturbance   | QP detector (30 MHz - 100 MHz) H polarization   | 4,33                 | dB   | 95%              | 2,00            | > 60              |
|                        | QP detector (30 MHz - 100 MHz) V polarization   | 4,22                 | dB   | 95%              | 2,00            | > 60              |
|                        | QP detector (100 MHz - 200 MHz) H polarization  | 3,40                 | dB   | 95%              | 2,00            | > 60              |
|                        | QP detector (100 MHz - 200 MHz) V polarization  | 4,76                 | dB   | 95%              | 2,00            | > 60              |
|                        | QP detector (200 MHz - 1000 MHz) H polarization | 3,91                 | dB   | 95%              | 2,00            | > 60              |
|                        | QP detector (200 MHz - 1000 MHz) V polarization | 3,82                 | dB   | 95%              | 2,00            | > 60              |
|                        | P detector 1-6 GHz                              | 4,77                 | dB   | 95%              | 2,00            | > 60              |
|                        | P detector 6 – 18 GHz                           | 5,14                 | dB   | 95%              | 2,00            | > 60              |

## 9. LIST OF MEASURING EQUIPMENT AND CALIBRATION INFORMATION

| IMQ Serial Number | Instrument                     | Manufacturer    | Type            | Last Cal. | Cal. Period. | Calibration Company |
|-------------------|--------------------------------|-----------------|-----------------|-----------|--------------|---------------------|
| P01709            | Shielded semi-anechoic chamber | SIDT            | /               | 10-18     | 12           | IMQ                 |
| P02486            | Turntable controller unit      | FRANKONIA       | FCTAM01         | /         | /            | /                   |
| P02488            | Mast antenna                   | FRANKONIA       | FAM4            | /         | /            | /                   |
| S05562            | EMI Receiver                   | Rohde & Schwarz | ESU 8           | 07-19     | 12           | Rohde & Schwarz     |
| S03511            | Log antenna                    | ARA             | LPB-2513        | 12-18     | 12           | NPL                 |
| S03463            | Horn Antenna                   | Schwarzbeck     | BBHA 9120D      | 07-17     | 36           | NPL                 |
| S03542            | Preamplifier                   | Hewlett Packard | HP 8449B        | 03-19     | 12           | IMQ                 |
| W00199/E          | Software                       | Rohde & Schwarz | Emc32 Ver. 6.30 | /         | /            | /                   |
| H00165            | PC                             | /               | /               | /         | /            | /                   |

**END OF TEST REPORT**