

ASSESSMENT REPORT

No. AR18-0021603-01-1

performed in accordance with
FCC Rules: Code of Federal Regulations and KDB 447498

PRODUCT	LPD transmitter
MODEL(s) TESTED	WM001GI/U
FCC ID	PML433NWGIU
TRADE MARK(s)	NICE

APPLICANT	NICE S.p.A. ~ Via Pezza alta, 13 ~ I-31046 Rustignè di Oderzo (TV)
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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	2018-02-21	First edition Digital signed - AR18-0021603-01-1_TR_FCC SAR Evaluation - NICE - NiceWAY

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

SAMPLE		
Samples received on	2018-01-23	(Item(s) sampled and sent by applicant)
IMQ reference samples	BEM	89391
Samples tested No.	1	
Object under analysis recognition	Not carried out Except where stated, characteristics of products were taken from client description and were not verified by the laboratory	
Date of acceptance of test item	2018-02-20	
TEST LOCATION		
Testing dates	/	
Testing laboratory.	IMQ S.p.A. - Via Quintiliano, 43 – I-20138 Milano	
Testing site	Via Quintiliano, 43 – I-20138 Milano	
ENVIRONMENTAL CONDITIONING		
<i>Parameter</i>	<i>Measured</i>	
Ambient Temperature	20.7 °C	
Relative Humidity	45 %	
Atmospheric Pressure	998 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.		
REMARKS		
Throughout this report a point is used as the decimal separator. The ability or reliability of this product to perform its intended function in a particular application has not been investigated. 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"/>	KDB 447498	2015 v06	RF exposure procedures and equipment authorization policies for mobile and portable devices

3. EQUIPMENT UNDER TEST (EUT) DETAILS

GENERAL DATA

MODEL (basic)	Description
WM001GI/U	LPD transmitter 3 buttons
MODEL (derivated)	Description
WM006GI/U	Same as WM006GI/U with 9 buttons
WM002GI/U	Same as WM006GI/U with 6 buttons

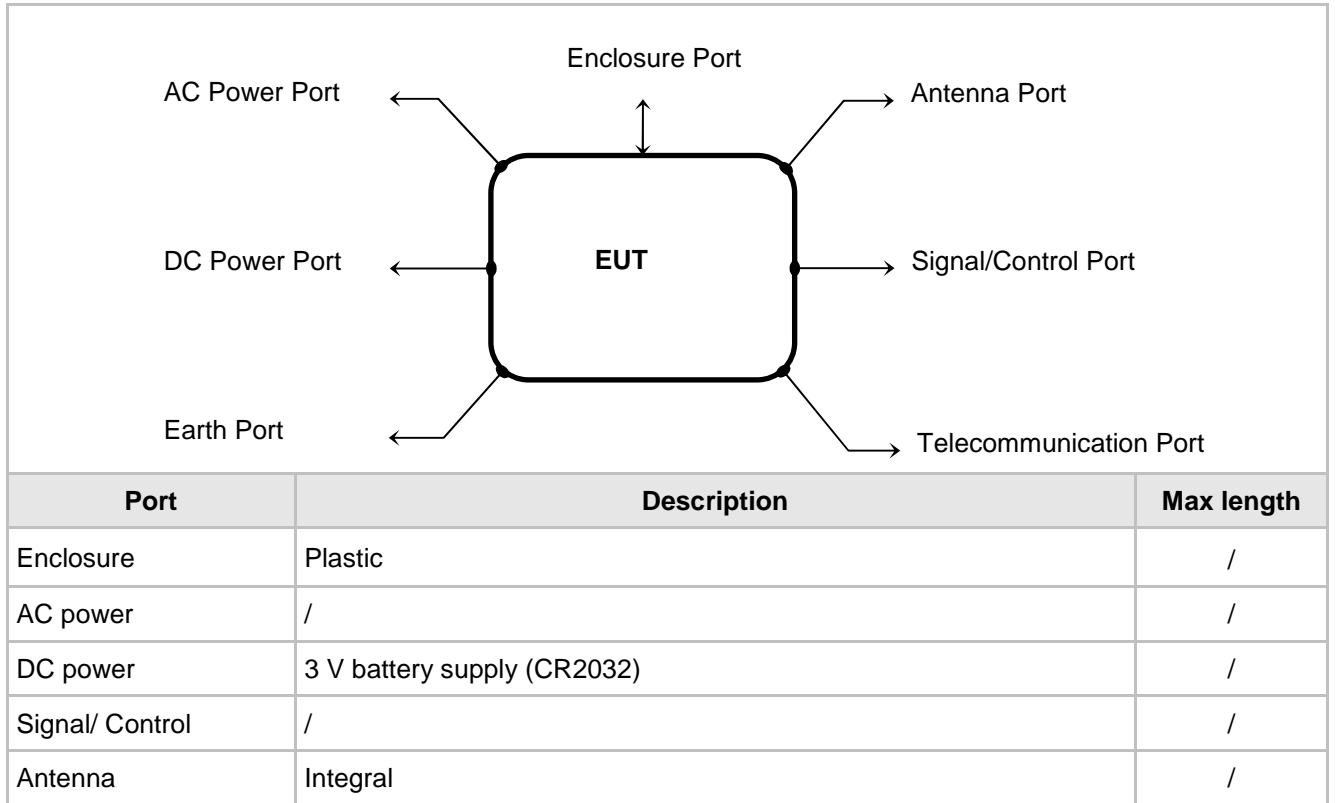
FCC ID	PML433NWGIU
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Manufacturer	NICE S.p.A. ~ Via Pezza alta, 13 ~ I-31046 Rustignè di Oderzo (TV)
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Type of equipment	LPD transmitter
Operating frequency	433.92 MHz
Max radiated power	87.65 dB μ V/m (at 3m distance)
Modulation	GFSK
Channel Spacing	/
Channel bandwidth	/
Antenna	Integral
Number of channels	/

4. TEST CONFIGURATION OF EQUIPMENT UNDER TEST

EUT PORTS



SUPPORT EQUIPMENT

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

Equipment	Manufacturer	Model
/	/	/

ELECTROMAGNETICALLY RELEVANT COMPONENTS

Component	No.	Manufacturer	Model
PCB board	1	NICE	Transmitter V3

RFI SUPPRESSION DEVICES

Component	No.	Manufacturer	Model
/	/	/	/

EMI PROTECTION DEVICES

Component	No.	Manufacturer	Model
/	/	/	/

EUT TECHNICAL DOCUMENTATION

Document	Reference
/	/

5. 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.

TITLE	RESULT
RF humane exposure	PASS

6. TEST RESULTS

6.1 RF EXPOSURE EVALUATION

TEST REQUIREMENT	
Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines § 1.1307(b)(1).	
EUT classification (fixed, mobile or portable devices)	Portable according to § 2.1093(b) of this Chapter
LIMITS	According to § 2.1093 of this Chapter, by means of the following guidelines: OET Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies (447498 D01 General RF Exposure Guidance v06)

SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm						
447498 D01 General RF Exposure Guidance v06 – Appendix A						
MHz	5	10	15	20	25	mm
150	39	77	116	155	194	SAR Test Exclusion Threshold (mW)
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	

The *test separation distances* ≥ 5 mm is applied to determine SAR test exclusion.

SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm

447498 D01 General RF Exposure Guidance v06 – Appendix A

Frequency (MHz)	E.I.R.P.		Distance (mm)	$\frac{\text{max. power (mW)}}{\text{min. distance (mm)}^2} \times \sqrt{f(\text{GHz})}$	Limits
	(dBm)	(mW)			
433.92	-7.08	0.20	5	0.026	≤ 3.0 for 1-g head SAR or ≤ 7.5 for 10-g extremity SAR

Declared tolerance output power = ± 0.5 dBm

E.I.R.P. = 87.65 dBμV@ 3m (Max E.I.R.P. measured) = -7.58 dBm + 0.5 (Tolerance of radiated power) = -7.08 dBm

TEST RESULT

This value is less than the low threshold limit. No SAR test is required.

END OF TEST REPORT