

Prüfbericht-Nr.: <i>Test report no.:</i>	60356613 006	Auftrags-Nr.: <i>Order no.:</i>	168269603	Seite 1 von 15 Page 1 of 15
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2020-06-16	
Auftraggeber: <i>Client:</i>	Telit Communications S.p.A., Viale Stazione di Prosecco 5/b, 34010, Trieste, Italy			
Prüfgegenstand: <i>Test item:</i>	Data Terminal Module			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	ME310G1-WWV			
Auftrags-Inhalt: <i>Order content:</i>	Test Report			
Prüfgrundlage: <i>Test specification:</i>	FCC 47 CFR Part 2.1091 RSS-102 Issue 5			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2020-09-24	Refer to Photo Documentation		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A002916809-001			
Prüfzeitraum: <i>Testing period:</i>	2020-09-25 – 2020-11-09			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	genehmigt von: <i>authorized by:</i>			
Datum: <i>Date:</i> 2020-11-23	 Lin Lin		 Winnie Hou	
Stellung / Position:	Senior Project Manager	Ausstellungsdatum: <i>Issue date:</i> 2020-11-23	Technical Certifier	
Sonstiges / Other: FCC ID: R17ME310G1WW; IC: 5131A-ME310G1WW This report is for RF exposure evaluation.				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet * Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

Prüfbericht - Nr.: 60356613 006
Test Report No.

Seite 2 von 15
Page 2 of 15

TEST SUMMARY

5.1.1 RF EXPOSURE COMPLIANCE

RESULT: Pass

CONTENTS

1.	GENERAL REMARKS	4
1.1	COMPLEMENTARY MATERIALS.....	4
2.	TEST SITES.....	4
2.1	TEST FACILITIES	4
2.2	LIST OF TEST AND MEASUREMENT INSTRUMENTS	4
2.3	TRACEABILITY	5
2.4	CALIBRATION.....	5
2.5	MEASUREMENT UNCERTAINTY	5
2.6	LOCATION OF ORIGINAL DATA	5
2.7	STATUS OF FACILITY USED FOR TESTING	5
3.	GENERAL PRODUCT INFORMATION	6
3.1	PRODUCT FUNCTION AND INTENDED USE	6
3.2	RATINGS AND SYSTEM DETAILS.....	6
3.3	INDEPENDENT OPERATION MODES.....	7
3.4	NOISE GENERATING AND NOISE SUPPRESSING PARTS.....	7
3.5	SUBMITTED DOCUMENTS.....	7
4.	TEST SET-UP AND OPERATION MODES.....	8
4.1	PRINCIPLE OF CONFIGURATION SELECTION	8
4.2	TEST OPERATION AND TEST SOFTWARE	8
4.3	SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	8
4.4	COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE	8
4.5	TEST SETUP DIAGRAM	9
5.	TEST RESULTS	10
5.1	TRANSMITTER REQUIREMENTS & TEST SUITES.....	10
5.1.1	RF Exposure Compliance.....	10

1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

None.

2. Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.
(FCC Registration No.: 694916 & IC Registration Number: 25069)

No. 362 Huanguan Road Middle, Longhua District, Shenzhen 518110, P.R. China

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until (YYYY-MM-DD)
Radio Spectrum Test				
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	166305	2021-09-19
High Speed Power Supply	KEITHLEY	2303	4080052	2020-12-17

2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table,

Items		Extended Uncertainty
Radio Spectrum	Output Power (dBm)	U=0.5dB, k=2, σ =95%

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. facility located at No. 362 Huanguan Road Middle, Longhua District, Shenzhen 518110, P.R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3. General Product Information

3.1 Product Function and Intended Use

The EUT is wireless module which supports GSM, GPRS, EGPRS, NB-IoT and eMTC wireless technology.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

Technical Specification	Value
Kind of Equipment:	Data Terminal Module
Type Designation:	ME310G1-WWV
FCC ID:	RI7ME310G1WW
IC:	5131A-ME310G1WW
Hardware Version:	1.0
Software Version:	M0C.700002
Type of Equipment:	Single Module
Wireless Technology:	GSM/GPRS/EGPRS, eMTC and NB-IoT
Operating Frequency Range:	GSM/GPRS/EGPRS: GSM 850, PCS 1900 eMTC: Band 2/4/5/12/13/25/26/66/85 NB-IoT: Band 2/4/5/12/13/25/26/66/71/85
Power Class:	GSM/GPRS 850: Class 4 GSM1900/GPRS: Class 1 EGPRS 900/1800: E2 eMTC: Class 3 NB-IoT: Class 3
Type of Modulation:	GSM: GMSK GPRS: GMSK EGPRS: GMSK, 8PSK eMTC: QPSK, 16QAM NB-IoT: BPSK, QPSK
Operating Voltage:	DC 3.8V via DC power supply
Antenna Type:	External Antenna
Number of Antenna:	1

Prüfbericht - Nr.: 60356613 006
Test Report No.Seite 7 von 15
Page 7 of 15

Table 3: Marketed Antenna List

Description	Manufacturer	Model	S/N	Rating
LTE Magnetic Antenna	ATEL-CAB	T-AT305	N/A	Frequency Range: 700-960 MHz / 1710-2700 MHz Omnidirectional antenna Gain: 2.14 dBi (Max.) Cable: RG 174mm 2500

3.3 Independent Operation Modes

The basic operation modes are:

- A. Transmitting
 - 1. GSM/GPRS/EGPRS/eMTC/NB-IoT
 - a. Lowest channel
 - b. Middle channel
 - c. Highest channel
- B. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- Bill of Material	- Circuit Diagram
- PCB Layout	- Instruction Manual
- Photo Document	- Rating Label

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5.

4.3 Special Accessories and Auxiliary Equipment

Table 4: List of Accessories and Auxiliary Equipment

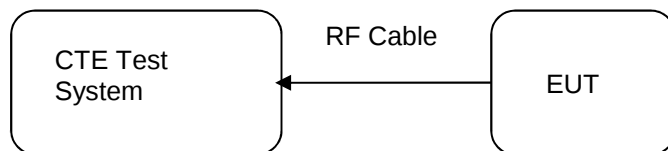
Name	Model	Manufacturer	S/N
Evaluation Kit	EVK2	Telit	N/A

4.4 Countermeasures to achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Equipment Configuration for Transmitter Measurement



5. Test Results

5.1 Transmitter Requirements & Test Suites

5.1.1 RF Exposure Compliance

RESULT: Pass

Test date	:	Error! Reference source not found.
Test standard	:	Error! Reference source not found.
Limit	:	Error! Reference source not found.
Kind of test site	:	Table 1 of 47 CFR FCC Part 1.1310 Table 4 of Error! Reference source not found. Shielded room

TEST SETUP

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A
Ambient temperature	:	25 °C
Relative humidity	:	49%
Atmospheric pressure	:	101.0 kPa

This device is mobile device, and the applicant declares that the minimum separation distance is greater than 20cm. Therefore MPE measurement or computational modeling should be used to determine compliance.

MPE Calculation is based on the conducted power, and considering maximum power and antenn gain. The following formula is used to MPE evaluation.

$$Pd = \frac{P_{out} * G}{4R^2\pi}$$

Where

P_d = power density in mW/cm² or W/m²

P_{out} = output power to antenna in mW or W

G_{num} = Antenna gain in numeric

π = 3.14159

R = Distance between observation point and the center of radiator in cm or m

Note: The eMtc, NB-IOT, GSM, GPRS and EDGE modes can not transmit simultaneously.

Test Result: PASS

Note: The max. output power are derived from the test report 60356613 001, 60356613 002, 60356613 003, 60356613 005.

FCC Test Result for product with 2.14dBi Antenna gain

Operating Mode	Band	Maximum Conducted Output Power		Division factors (dB)	Antenna Gain (dBi)	Max. time-averaged E.R.P./E.I.R.P. (dBm)	Min. Distance (cm)	Calculation (mW/cm ²)	FCC Limit (mW/cm ²)	Result
		Measured Power (dBm)	Max. Power incl. tune-up (dBm)							
GSM	850	32.5	34	-9.03	2.14	27.11	20	0.102	0.549	PASS
	1900	29.9	31	-9.03	2.14	24.11	20	0.051	1.0	PASS

Note: Division factors, 1Tx slot = 1 transmit time slot out of 8 time slots= -9.03dB

Operating Mode	Band	Maximum Conducted Output Power		Division factors (dB)	Antenna Gain (dBi)	Max. time-averaged E.R.P./E.I.R.P. (dBm)	Min. Distance (cm)	Calculation (mW/cm ²)	FCC Limit (mW/cm ²)	Result
		Measured Power (dBm)	Max. Power incl. tune-up (dBm)							
GPRS	850(1slot)	32.3	33.5	-9.03	2.14	26.61	20	0.091	0.549	PASS
	850(2slots)	31.7	33.5	-6.02	2.14	29.62	20	0.182	0.549	PASS
	850(3slots)	28.8	30	-4.26	2.14	27.88	20	0.122	0.549	PASS
	850(4slots)	26.8	28	-3.01	2.14	27.13	20	0.103	0.549	PASS
	1900(1slot)	30.2	30.5	-9.03	2.14	23.61	20	0.046	1.0	PASS
	1900(2slots)	28.9	30.5	-6.02	2.14	26.62	20	0.091	1.0	PASS
	1900(3slots)	28.1	30	-4.26	2.14	27.88	20	0.122	1.0	PASS
	1900(4slots)	27.2	29	-3.01	2.14	28.13	20	0.129	1.0	PASS
EGPRS	850(1slot)	26.8	28	-9.03	2.14	21.11	20	0.026	0.549	PASS
	850(2slots)	26.4	28	-6.02	2.14	24.12	20	0.051	0.549	PASS
	850(3slots)	26.3	28	-4.26	2.14	25.88	20	0.077	0.549	PASS
	850(4slots)	26.1	28	-3.01	2.14	27.13	20	0.103	0.549	PASS
	1900(1slot)	26.1	27	-9.03	2.14	20.11	20	0.020	1.0	PASS
	1900(2slots)	26.0	27	-6.02	2.14	23.12	20	0.041	1.0	PASS
	1900(3slots)	25.8	27	-4.26	2.14	24.88	20	0.061	1.0	PASS
	1900(4slots)	25.1	27	-3.01	2.14	26.13	20	0.082	1.0	PASS

Note: Division factors, 1Tx slot = 1 transmit time slot out of 8 time slots= -9.03dB; 2Tx slots = 2 transmit time slots out of 8 time slots= -6.02dB; 3Tx slots = 3 transmit time slots out of 8 time slots= -4.26dB; 4Tx slots = 4 transmit time slots out of 8 time slots= -3.01dB

Operating Mode	Band	Maximum Conducted Output Power		Antenna Gain (dBi)	Max. E.R.P./E.I.R.P. (dBm)	Min. Distance (cm)	Calculation (mW/cm ²)	FCC Limit (mW/cm ²)	Result
		Measured Power (dBm)	Max. Power incl. tune-up (dBm)						
NB-IoT	2	24.5	25	2.14	27.14	20	0.103	1.0	PASS
	4	24.6	25	2.14	27.14	20	0.103	1.0	PASS
	5	24.8	25	2.14	27.14	20	0.103	0.549	PASS
	12	24.9	25	2.14	27.14	20	0.103	0.466	PASS
	13	25.0	25	2.14	27.14	20	0.103	0.518	PASS

	25	24.4	25	2.14	27.14	20	0.103	1.0	PASS
	26	25.0	25	2.14	27.14	20	0.103	0.543	PASS
	66	24.7	25	2.14	27.14	20	0.103	1.0	PASS
	71	20.7	22	2.14	24.14	20	0.052	0.442	PASS
	85	24.9	25	2.14	27.14	20	0.103	1.0	PASS

Operating Mode	Band	Maximum Conducted Output Power		Antenna Gain (dBi)	Max. E.R.P./E.I.R.P. (dBm)	Min. Distance (cm)	Calculation (mW/cm ²)	FCC Limit (mW/cm ²)	Result
		Measured Power (dBm)	Max. Power incl. tune-up (dBm)						
eMTC	2	23.5	24	2.14	26.14	20	0.082	1.0	PASS
	4	23.5	24	2.14	26.14	20	0.082	1.0	PASS
	5	23.0	24	2.14	26.14	20	0.082	0.549	PASS
	12	23.0	24	2.14	26.14	20	0.082	0.466	PASS
	13	23.6	24	2.14	26.14	20	0.082	0.518	PASS
	25	24.0	24	2.14	26.14	20	0.082	1.0	PASS
	26	23.2	24	2.14	26.14	20	0.082	0.543	PASS
	66	23.5	24	2.14	26.14	20	0.082	1.0	PASS
	85	23.2	24	2.14	26.14	20	0.082	0.465	PASS

IC Test Result for product with 2.14dBi Antenna gain

Operating Mode	Band	Maximum Conducted Output Power		Division factors (dB)	Antenna Gain (dBi)	Max. time-averaged E.R.P./E.I.R.P. (dBm)	Min. Distance (cm)	Calculation (W/cm ²)	FCC Limit (W/cm ²)	Result
		Measured Power (dBm)	Max. Power incl. tune-up (dBm)							
GSM	850	32.5	34	-9.03	2.14	27.11	20	1.023	2.576	PASS
	1900	29.9	31	-9.03	2.14	24.11	20	0.512	4.476	PASS

Note: Division factors, 1Tx slot = 1 transmit time slot out of 8 time slots= -9.03dB

Operating Mode	Band	Maximum Conducted Output Power		Division factors (dB)	Antenna Gain (dBi)	Max. time-averaged E.R.P./E.I.R.P. (dBm)	Min. Distance (cm)	Calculation (W/m ²)	IC Limit (W/m ²)	Result
		Measured Power (dBm)	Max. Power incl. tune-up (dBm)							
GPRS	850(1slot)	32.3	33.5	-9.03	2.14	26.61	20	0.909	2.576	PASS
	850(2slots)	31.7	33.5	-6.02	2.14	29.62	20	1.821	2.576	PASS
	850(3slots)	28.8	30	-4.26	2.14	27.88	20	1.218	2.576	PASS
	850(4slots)	26.8	28	-3.01	2.14	27.13	20	1.026	2.576	PASS
	1900(1slot)	30.2	30.5	-9.03	2.14	23.61	20	0.456	4.476	PASS
	1900(2slots)	28.9	30.5	-6.02	2.14	26.62	20	0.912	4.476	PASS
	1900(3slots)	28.1	30	-4.26	2.14	27.88	20	1.218	4.476	PASS
	1900(4slots)	27.2	29	-3.01	2.14	28.13	20	1.293	4.476	PASS
EGPRS	850(1slot)	26.8	28	-9.03	2.14	21.11	20	0.254	2.576	PASS
	850(2slots)	26.4	28	-6.02	2.14	24.12	20	0.512	2.576	PASS
	850(3slots)	26.3	28	-4.26	2.14	25.88	20	0.769	2.576	PASS

	850(4slots)	26.1	28	-3.01	2.14	27.13	20	0.103	2.576	PASS
	1900(1slot)	26.1	27	-9.03	2.14	20.11	20	0.202	4.476	PASS
	1900(2slots)	26.0	27	-6.02	2.14	23.12	20	0.407	4.476	PASS
	1900(3slots)	25.8	27	-4.26	2.14	24.88	20	0.609	4.476	PASS
	1900(4slots)	25.1	27	-3.01	2.14	26.13	20	0.814	4.476	PASS

Note: Division factors, 1Tx slot = 1 transmit time slot out of 8 time slots= -9.03dB; 2Tx slots = 2 transmit time slots out of 8 time slots= -6.02dB; 3Tx slots = 3 transmit time slots out of 8 time slots= -4.26dB; 4Tx slots = 4 transmit time slots out of 8 time slots= -3.01dB

Operating Mode	Band	Maximum Conducted Output Power		Antenna Gain (dBi)	Max. E.R.P./E.I.R.P. (dBm)	Distance (cm)	Calculation (W/m²)	IC Limit (W/m²)	Result
		Measured Power (dBm)	Max. Power incl. tune-up (dBm)						
NB-IoT	2	24.5	25	2.14	27.14	20	1.030	4.476	PASS
	4	24.6	25	2.14	27.14	20	1.030	4.242	PASS
	5	24.8	25	2.14	27.14	20	1.030	2.576	PASS
	12	24.9	25	2.14	27.14	20	1.030	2.302	PASS
	13	25.0	25	2.14	27.14	20	1.030	2.474	PASS
	25	24.4	25	2.14	27.14	20	1.030	4.476	PASS
	26	25.0	25	2.14	27.14	20	1.030	2.554	PASS
	66	24.7	25	2.14	27.14	20	1.030	4.242	PASS
	71	20.7	22	2.14	24.14	20	0.515	2.220	PASS
	85	24.9	25	2.14	27.14	20	1.030	2.299	PASS

Operating Mode	Band	Maximum Conducted Output Power		Antenna Gain (dBi)	Max. E.R.P./E.I.R.P. (dBm)	Distance (cm)	Calculation (W/m²)	IC Limit (W/m²)	Result
		Measured Power (dBm)	Max. Power incl. tune-up (dBm)						
eMTC	2	23.5	24	2.14	26.14	20	0.818	4.476	PASS
	4	23.5	24	2.14	26.14	20	0.818	4.242	PASS
	5	23.0	24	2.14	26.14	20	0.818	2.576	PASS
	12	23.0	24	2.14	26.14	20	0.818	2.302	PASS
	13	23.6	24	2.14	26.14	20	0.818	2.474	PASS
	25	24.0	24	2.14	26.14	20	0.818	4.476	PASS
	26	23.2	24	2.14	26.14	20	0.818	2.554	PASS
	66	23.5	24	2.14	26.14	20	0.818	4.242	PASS
	85	23.2	24	2.14	26.14	20	0.818	2.299	PASS

FCC and IC Test Result for Allowed Antenna Gain

Operating Mode	Band	Maximum Conducted Output Power		Division factors (dB)	Min. Distance (cm)	FCC Limit (mW/cm ²)	IC Limit (W/m ²)	Allowed Antenna Gain_Power		Allowed Antenna Gain_MPE		Permissive Antenna Gain	
		Measured Power (dBm)	Max. Power incl. tune-up (dBm)					FCC (dBi)	IC (dBi)	FCC (dBi)	IC (dBi)	FCC (dBi)	IC (dBi)
GSM	850	32.5	34	-9.03	20	0.549	2.576	6.60	8.75	9.44	6.15	6.60	6.15
	1900	29.9	31	-9.03	20	1.0	4.476	2.01	2.01	15.04	11.55	2.01	2.01

Note: Division factors, 1Tx slot = 1 transmit time slot out of 8 time slots= -9.03dB

Operating Mode	Band	Maximum Conducted Output Power		Division factors (dB)	Min. Distance (cm)	FCC Limit (mW/cm ²)	IC Limit (W/m ²)	Allowed Antenna Gain_Power		Allowed Antenna Gain_MPE		Permissive Antenna Gain	
		Measured Power (dBm)	Max. Power incl. tune-up (dBm)					FCC (dBi)	IC (dBi)	FCC (dBi)	IC (dBi)	FCC (dBi)	IC (dBi)
GPRS	850(1slot)	32.3	33.5	-9.03	20	0.549	2.576	7.10	9.25	9.94	6.65	7.10	6.65
	850(2slots)	31.7	33.5	-6.02	20	0.549	2.576	7.10	9.25	6.93	3.64	6.93	3.64
	850(3slots)	28.8	30	-4.26	20	0.549	2.576	10.60	12.75	8.67	5.38	8.67	5.38
	850(4slots)	26.8	28	-3.01	20	0.549	2.576	12.60	14.75	9.42	6.13	9.42	6.13
	1900(1slot)	30.2	30.5	-9.03	20	1.0	4.476	2.51	2.51	15.54	12.05	2.51	2.51
	1900(2slots)	28.9	30.5	-6.02	20	1.0	4.476	2.51	2.51	12.53	9.04	2.51	2.51
	1900(3slots)	28.1	30	-4.26	20	1.0	4.476	3.01	3.01	11.27	7.78	3.01	3.01
	1900(4slots)	27.2	29	-3.01	20	1.0	4.476	4.01	4.01	11.02	7.53	4.01	4.01
EGPRS	850(1slot)	26.8	28	-9.03	20	0.549	2.576	12.60	14.75	15.44	12.15	12.60	12.15
	850(2slots)	26.4	28	-6.02	20	0.549	2.576	12.60	14.75	12.43	9.14	12.43	9.14
	850(3slots)	26.3	28	-4.26	20	0.549	2.576	12.60	14.75	10.67	7.38	10.67	7.38
	850(4slots)	26.1	28	-3.01	20	0.549	2.576	12.60	14.75	9.42	6.13	9.42	6.13
	1900(1slot)	26.1	27	-9.03	20	1.0	4.476	6.01	6.01	19.04	15.55	6.01	6.01
	1900(2slots)	26.0	27	-6.02	20	1.0	4.476	6.01	6.01	16.03	12.54	6.01	6.01
	1900(3slots)	25.8	27	-4.26	20	1.0	4.476	6.01	6.01	14.27	10.78	6.01	6.01
	1900(4slots)	25.1	27	-3.01	20	1.0	4.476	6.01	6.01	13.02	9.53	6.01	6.01

Note: Division factors, 1Tx slot = 1 transmit time slot out of 8 time slots= -9.03dB; 2Tx slots = 2 transmit time slots out of 8 time slots= -6.02dB; 3Tx slots = 3 transmit time slots out of 8 time slots= -4.26dB; 4Tx slots = 4 transmit time slots out of 8 time slots= -3.01dB

Operating Mode	Band	Maximum Conducted Output Power		Min. Distance (cm)	FCC Limit (mW/cm ²)	IC Limit (W/m ²)	Allowed Antenna Gain_Power		Allowed Antenna Gain_MPE		Permissive Antenna Gain	
		Measured Power (dBm)	Max. Power incl. tune-up (dBm)				FCC (dBi)	IC (dBi)	FCC (dBi)	IC (dBi)	FCC (dBi)	IC (dBi)
NB-IoT	2	24.5	25	20	1.0	4.476	8.01	8.01	12.01	8.52	8.01	8.01
	4	24.6	25	20	1.0	4.242	5.00	5.00	12.01	8.29	5.00	5.00
	5	24.8	25	20	0.549	2.576	15.60	17.75	9.41	6.12	9.41	6.12
	12	24.9	25	20	0.466	2.302	11.92	11.92	8.70	5.63	8.70	5.63
	13	25.0	25	20	0.518	2.474	11.92	11.92	9.16	5.95	9.16	5.95
	25	24.4	25	20	1.0	4.476	8.01	8.01	12.01	8.52	8.01	8.01
	26	25.0	25	20	0.543	2.554	15.60	17.75	9.36	6.09	9.36	6.09
	66	24.7	25	20	1.0	4.242	5.00	5.00	12.01	8.29	5.00	5.00

Prüfbericht - Nr.: 60356613 006
Test Report No.

Seite 15 von 15
Page 15 of 15

	71	20.7	22	20	0.442	2.220	14.92	14.92	11.47	8.48	11.47	8.48
	85	24.9	25	20	0.465	2.299	11.92	11.92	8.69	5.63	8.69	5.63

Operating Mode	Band	Maximum Conducted Output Power		Min. Distance (cm)	FCC Limit (mW/cm ²)	IC Limit (W/m ²)	Allowed Antenna Gain_Power		Allowed Antenna Gain_MPE		Permissive Antenna Gain	
		Measured Power (dBm)	Max. Power incl. tune-up (dBm)				FCC (dBi)	IC (dBi)	FCC (dBi)	IC (dBi)	FCC (dBi)	IC (dBi)
eMTC	2	23.5	24	20	1.0	4.476	9.01	9.01	13.01	9.52	9.01	9.01
	4	23.5	24	20	1.0	4.242	6.00	6.00	13.01	9.29	6.00	6.00
	5	23.0	24	20	0.549	2.576	16.60	18.75	10.41	7.12	10.41	7.12
	12	23.0	24	20	0.466	2.302	12.92	12.92	9.70	6.63	9.70	6.63
	13	23.6	24	20	0.518	2.474	12.92	12.92	10.16	6.95	10.16	6.95
	25	24.0	24	20	1.0	4.476	9.01	9.01	13.01	9.52	9.01	9.01
	26	23.2	24	20	0.543	2.554	16.60	18.75	10.36	7.09	10.36	7.09
	66	23.5	24	20	1.0	4.242	6.00	6.00	13.01	9.29	6.00	6.00
	85	23.2	24	20	0.465	2.299	12.92	12.92	9.69	6.63	9.69	6.63