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RADIO TEST REPORT

Report No.: STS2305310W07

Issued for

Mikrotiks SIA

Brivibas gatve 214i, Riga, Latvia, LV-1039

Product Name:	CME Gateway
Brand:	MikroTik
Model Number:	CME22-2n-BG77
Series Model(s):	N/A
FCC ID:	TV7CMEBG77
Test Standard:	47 CFR Part 2,22,24(E), 27

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TEST RESULT CERTIFICATION

Applicant's Name.....: Mikrotikls SIA
 Address.....: Brivibas gatve 214i, Riga, Latvia, LV-1039
Manufacturer's Name.....: Mikrotikls SIA
 Address.....: Brivibas gatve 214i, Riga, Latvia, LV-1039


Product description

Product Name: CME Gateway
 Brand: MikroTik
 Model Number.....: CME22-2n-BG77
 Series Model(s).....: N/A


Test Standards.....: 47 CFR Part 2, 22, 24(E), 27
 Test Procedure.....: KDB 971168 D01 v03r01, ANSI C63.26 2015

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.
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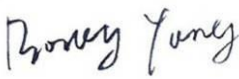
Date of Test.....:
 Date of receipt of test item: 15 May 2023
 Date (s) of performance of tests : 15 May 2023 ~ 12 June 2023
 Date of Issue: 12 June 2023
 Test Result: Pass

Testing Engineer : 

 (Chris Chen)

Technical Manager : 

 (Sean she)

Authorized Signatory : 

 (Bovey Yang)





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Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	12 June 2023	STS2305310W07	ALL	Initial Issue





SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

The radiated emission testing was performed according to the procedures of KDB 971168 D01 v03r01 and ANSI C63.26(2015)

Test Description	FCC Rules	Band	Test Limit	Test Result
Conducted Output Power	2.1046	/	Reporting Only	NOTE
Transmitter Radiated Power	22.913	B5	ERP < 7 Watt	PASS
	24.232(c)	B2, B25	EIRP < 2Watt	
	27.50(b)	B13	ERP < 3 Watt	
	27.50(c)	B12, B71, B85	ERP < 3 Watt	
	27.50(d)	B4, B66	EIRP < 1Watt	
Peak-to-Average Ratio	22.913(d)	B5	< 13 dB	NOTE
	24.232(d)	B2, B25		
	27.50	B4, B12, B13, B66, B71, B85		
Occupied Bandwidth	2.1049	/	Reporting Only	NOTE
Frequency Stability	2.1055	/	< 2.5 ppm	NOTE
	22.355	B5		
	24.235	B2, B25		
	27.54	B4, B12, B13, B66, B71, B85		
Spurious Emission at Antenna Terminals	2.1051	/	< 43+10log10(P[Watts])	NOTE
	22.917	B5		
	24.238(a)	B2, B25		
	27.53(c)	B13		
	27.53(g)	B12, B71, B85		
	27.53(h)	B4, B66		



Band Edge	2.1051	/	Please refer to standard	NOTE
	22.917	B5		
	24.238(a)	B2, B25		
	27.53(c)	B13		
	27.53(g)	B12, B71		
	27.53(h)	B4, B66		
Field Strength of Spurious Radiation	2.1053	/	< 43+10log10(P[Watts])	PASS
	22.917	B5		
	24.238(a)	B2, B25		
	27.53(c)	B13		
	27.53(g)	B12, B71, B85		
	27.53(h)	B4, B66		

Note: The module has been certified, The module certificate number is "R1909A0576-R1V1_YIYUAN_BG77 NB FCC Part22, R1909A0576-R2V1_YIYUAN_BG77 NB FCC Part24, R1909A0576-R3_YIYUAN_BG77 NB FCC Part27, R1909A0576-R4_YIYUAN_BG77 NB FCC Part90S-LTE26".

In this report, this certified module is same as the original filling. We have tested the new radiation emission and radiated power.



1. TEST FACTORY & MEASUREMENT UNCERTAINTY

1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	RF output power, conducted	$\pm 1.197\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.896\text{dB}$
3	All emissions, radiated 9K-30MHz	$\pm 3.84\text{dB}$
4	All emissions, radiated 30M-1GHz	$\pm 3.94\text{dB}$
5	All emissions, radiated 1G-6GHz	$\pm 4.59\text{dB}$
6	All emissions, radiated >6G	$\pm 5.22\text{dB}$
7	Conducted Emission (9KHz-150KHz)	$\pm 2.14\text{dB}$
8	Conducted Emission (150KHz-30MHz)	$\pm 2.54\text{dB}$



2. GENERAL INFORMATION

2.1 TECHNICAL SPECIFICATIONS AND REGULATIONS

2.1.1 PRODUCT DESCRIPTION

A major technical description of EUT is described as following:

Product Name	CME Gateway
Brand	MikroTik
Model Number	CME22-2n-BG77
Series Model(s)	N/A
Model Difference	N/A
Frequency Bands	U.S. Bands: NB-IOT Band 2 NB-IOT Band 4 NB-IOT Band 5 NB-IOT Band 12 NB-IOT Band 13 NB-IOT Band 25 NB-IOT Band 66 NB-IOT Band 71 NB-IOT Band 85
SIM Card	Only support single SIM Card.
Antenna	PCB
Antenna gain	4.53dBi
Rating	Input: PoE Input: DC 18-57 V 2-pin terminal input: DC 12-57 V
Adapter	Model: MT48-480095-11SGU Input: 100-240V~, 50/60Hz, 1.0A Max Output: DC 48.0V, 0.95A
Extreme Vol. Limits	43.2V to 47.3V (Nominal 48V)
Extreme Temp. Tolerance	-30°C to +50°C
Hardware version number	r2
Software version number	ROS 7.6

Note: The antenna information refer the manufacturer provide report, applicable only to the tested sa-mple identified in the report.



2.1.2 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

Product Specification Subjective To This Standard	
Tx Frequency	NB-IoT Band 2:1850~1910MHz NB-IoT Band 4:1710~1755MHz NB-IoT Band 5:824~849MHz NB-IoT Band 12:699~716MHz NB-IoT Band 13:777~787MHz NB-IoT Band 25:1850~1915MHz NB-IoT Band 66:1710~1780MHz NB-IoT Band 71:663~698MHz NB-IoT Band 85:698~716 MHz
Rx Frequency	NB-IoT Band 2:1930 ~1990MHz NB-IoT Band 4:2110~2155MHz NB-IoT Band 5:869~894MHz NB-IoT Band 12:729~746MHz NB-IoT Band 13:746~756MHz NB-IoT Band 25:1930~1995MHz NB-IoT Band 66:2110~2180MHz NB-IoT Band 71:617~652MHz NB-IoT Band 85:728~746 MHz
Deployment	Stand-alone
Ntones	Single, multi-tone
Sub-carrier spacing	3.75KHz, 15KHz
Maximum Output Power Limit	NB-IoT Band 2: 22.99 dBm NB-IoT Band 4: 23.23 dBm NB-IoT Band 5: 22.02 dBm NB-IoT Band 12: 23.35 dBm NB-IoT Band 13: 23.58 dBm NB-IoT Band 25: 23.34 dBm NB-IoT Band 66: 23.08 dBm NB-IoT Band 71: 20.97 dBm NB-IoT Band 85: 25.62 dBm
Type of Modulation	BPSK /QPSK

2.1.3 CONFIGURATION OF EUT SYSTEM

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission’s requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

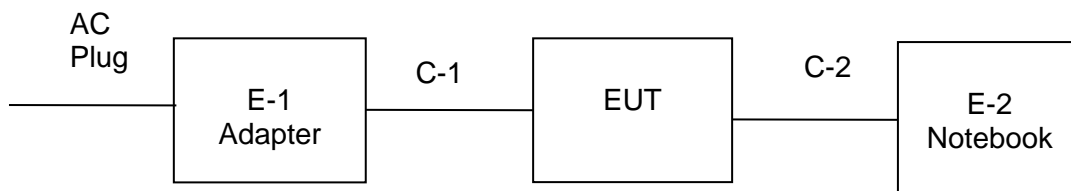


Table 2-1 Equipment Used in EUT System

Item	Equipment	Model No.	Length	Note
E-1	Adapter	MT48-480095-11SGU	N/A	N/A
C-1	DC Cable	N/A	155cm	N/A
E-2	Notebook	Think Pad E470	N/A	N/A
C-2	LAN Cable	N/A	150cm	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.



2.1.4 MEASUREMENT INSTRUMENTS

The radiated emission testing was performed according to the procedures of ANSI C63.26 2015 and FCC CFR 47 rules of 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057.

RF Radiation Test Equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Temperature & Humidity	SW-108	SuWei	N/A	2023.03.03	2024.03.02
Wireless Communications Test Set	R&S	CMW 500	117239	2023.03.01	2024.02.29
Pre-Amplifier(0.1M-3GHz)	EM	EM330	060665	2023.02.28	2024.02.27
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2022.09.29	2023.09.28
Positioning Controller	MF	MF-7802	MF-780208587	N/A	N/A
Signal Analyzer	R&S	FSV 40-N	101823	2022.09.29	2023.09.28
Switch Control Box	N/A	N/A	N/A	N/A	N/A
Filter Box	BALUN Technology	SU319E	BL-SZ1530051	N/A	N/A
Video Controller	SKET	FCS C-3	N/A	N/A	N/A
Bilog Antenna	TESEQ	CBL6111D	34678	2022.09.30	2024.09.29
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2021.10.11	2023.10.10
Antenna Mast	MF	MFA-440H	N/A	N/A	N/A
Turn Table	MF	N/A	N/A	N/A	N/A
AC Power Source	APC	KDF-11010G	F214050035	N/A	N/A
DC Power Supply	Zhaoxin	RXN 605D	20R605D11010081	N/A	N/A
Test SW	EMC Test Software	15.2.0.339			
	EZ-EMC	Ver.STSLAB-03A1 RE			
RF Connected Test Equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Temperature & Humidity	SW-108	SuWei	N/A	2023.03.03	2024.03.02
Wireless Communications Test Set	R&S	CMW 500	131428	2023.03.01	2024.02.29
Signal Analyzer	Agilent	N9020A	MY52440124	2023.03.01	2024.02.29
RF Automatic Test System	Maiwei	MW200-SFCB	N/A	N/A	N/A
Temperature & Humidity Test Chamber	Safety test	AG80L	171200018	2023.03.01	2024.02.29
Programmable Power Supply	Agilent	E3642A	MY40002025	2022.09.29	2023.09.28
Test SW	MTS 8200	2.0.0.0			



2.1.5 MEASUREMENT RESULTS EXPLANATION EXAMPLE

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF Cable Loss + Attenuator Factor.



3. CONDUCTED OUTPUT POWER&RADIATED POWER AND EFFECTIVE ISOTROPIC RADIATED POWER

3.1 DESCRIPTION OF THE CONDUCTED OUTPUT POWER MEASUREMENT

3.1.1 MEASUREMENT METHOD

CONDUCTED OUTPUT POWER:

A system simulator was used to establish communication with the eut. Its parameters were set to force the eut transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

Configuration follows KDB 971168 D01 v03r01.

C63.26 2015 Section 5.2.5.5.

In many cases, RF output power limits are specified in terms of the ERP or the EIRP. Typically, ERP is specified when the operating frequency is less than or equal to 1 GHz and EIRP is specified when the operating frequency is greater than 1 GHz. Both are defined as the product of the power supplied to the antenna and its gain (relative to a dipole antenna in the case of ERP, and relative to an isotropic antenna in the case of EIRP); however, when working in decibels (i.e., logarithmic scale), the ERP and EIRP represent the sum of the transmit antenna gain (in dBd or dBi, respectively) and the conducted RF output power (expressed in dB relative to watts or milliwatts). The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation (1) as follows:

$$1. \text{ ERP or EIRP} = \text{PMeas} + \text{GT}$$

$$\text{ERP} = \text{EIRP} - 2.15$$

where

ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as PMeas, e.g., dBm or dBW)

PMeas measured transmitter output power or PSD, in dBm or dBW

GT gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

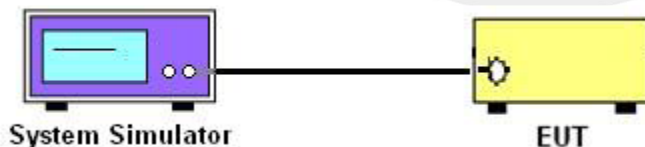
For devices utilizing multiple antennas, see 6.4 for guidance with respect to determining the effective array transmit antenna gain term to be used in the above equation.

The following equations demonstrate the mathematical relationship between ERP and EIRP:

a) $\text{ERP} = \text{EIRP} - 2.15$, where ERP and EIRP are expressed in consistent units.

b) $\text{EIRP} = \text{ERP} + 2.15$, where ERP and EIRP are expressed in consistent units.

3.1.2 TEST SETUP



3.1.3 TEST PROCEDURES

1. The transmitter output port was connected to system simulator.
2. Set EUT at maximum power through the system simulator.
3. Select lowest/middle/highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.



3.1.4 TEST RESULTS

NB-IoT Band 2 Maximum Average Power [dBm]															
Mode	UL Channel	Modulation	Subcarrier Space (KHz)	RB Configure	Conduction AVG Power (dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit (W)	EIRP Limit (dBm)	Verdict					
Band 2 Stand alone	Lowest	BPSK	3.75	1#0	21.15	4.53	25.68	2.00	33.01	PASS					
				1#47	20.93	4.53	25.46	2.00	33.01	PASS					
			15	1#0	20.71	4.53	25.24	2.00	33.01	PASS					
				1#11	20.44	4.53	24.97	2.00	33.01	PASS					
		QPSK	3.75	1#0	20.21	4.53	24.74	2.00	33.01	PASS					
				1#47	19.94	4.53	24.47	2.00	33.01	PASS					
			15	1#0	19.70	4.53	24.23	2.00	33.01	PASS					
				1#11	20.92	4.53	25.45	2.00	33.01	PASS					
						12#0	20.66	4.53	25.19	2.00	33.01	PASS			
						Middle	BPSK	3.75	1#0	21.12	4.53	25.65	2.00	33.01	PASS
									1#47	21.37	4.53	25.90	2.00	33.01	PASS
								15	1#0	21.17	4.53	25.70	2.00	33.01	PASS
	1#11	20.97	4.53	25.50	2.00				33.01	PASS					
	QPSK	3.75	1#0	20.70	4.53	25.23	2.00	33.01	PASS						
			1#47	20.45	4.53	24.98	2.00	33.01	PASS						
		15	1#0	20.16	4.53	24.69	2.00	33.01	PASS						
			1#11	21.38	4.53	25.91	2.00	33.01	PASS						
					12#0	21.13	4.53	25.66	2.00	33.01	PASS				
					Highest	BPSK	3.75	1#0	21.33	4.53	25.86	2.00	33.01	PASS	
								1#47	21.31	4.53	25.84	2.00	33.01	PASS	
							15	1#0	21.12	4.53	25.65	2.00	33.01	PASS	
	1#11	20.82	4.53	25.35				2.00	33.01	PASS					
	QPSK	3.75	1#0	20.56	4.53	25.09	2.00	33.01	PASS						
			1#47	20.27	4.53	24.80	2.00	33.01	PASS						
15		1#0	19.99	4.53	24.52	2.00	33.01	PASS							
		1#11	21.35	4.53	25.88	2.00	33.01	PASS							
				12#0	21.11	4.53	25.64	2.00	33.01	PASS					



NB-IoT Band 4 Maximum Average Power [dBm]											
Mode	UL Channel	Modulation	Subcarrier Space (KHz)	RB Configure	Conduction AVG Power (dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit (W)	EIRP Limit (dBm)	Verdict	
Band 4 Stand alone	Lowest	BPSK	3.75	1#0	21.15	4.53	25.68	1.00	30.00	PASS	
				1#47	20.85	4.53	25.38	1.00	30.00	PASS	
			15	1#0	20.59	4.53	25.12	1.00	30.00	PASS	
				1#11	20.32	4.53	24.85	1.00	30.00	PASS	
		QPSK	3.75	1#0	20.09	4.53	24.62	1.00	30.00	PASS	
				1#47	19.84	4.53	24.37	1.00	30.00	PASS	
			15	1#0	19.55	4.53	24.08	1.00	30.00	PASS	
				1#11	20.95	4.53	25.48	1.00	30.00	PASS	
	12#0			20.72	4.53	25.25	1.00	30.00	PASS		
	1#0			20.18	4.53	25.71	1.00	30.00	PASS		
	Middle	BPSK	3.75	1#0	21.18	4.53	25.71	1.00	30.00	PASS	
				1#47	20.92	4.53	25.45	1.00	30.00	PASS	
			15	1#0	20.69	4.53	25.22	1.00	30.00	PASS	
				1#11	20.41	4.53	24.94	1.00	30.00	PASS	
		QPSK	3.75	1#0	20.14	4.53	24.67	1.00	30.00	PASS	
				1#47	19.94	4.53	24.47	1.00	30.00	PASS	
			15	1#0	19.67	4.53	24.20	1.00	30.00	PASS	
				1#11	20.92	4.53	25.45	1.00	30.00	PASS	
	Highest	BPSK	3.75	1#0	21.53	4.53	26.06	1.00	30.00	PASS	
				1#47	21.28	4.53	25.81	1.00	30.00	PASS	
			15	1#0	21.06	4.53	25.59	1.00	30.00	PASS	
				1#11	20.81	4.53	25.34	1.00	30.00	PASS	
			QPSK	3.75	1#0	20.58	4.53	25.11	1.00	30.00	PASS
					1#47	20.31	4.53	24.84	1.00	30.00	PASS
15		1#0		20.03	4.53	24.56	1.00	30.00	PASS		
		1#11		21.24	4.53	25.77	1.00	30.00	PASS		
12#0		20.98	4.53	25.51	1.00	30.00	PASS				



NB-IoT Band 5 Maximum Average Power [dBm]											
Mode	UL Channel	Modulation	Subcarrier Space (KHz)	RB Configure	Conduction AVG Power (dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit (W)	EIRP Limit (dBm)	Verdict	
Band 5 Stand alone	Lowest	BPSK	3.75	1#0	21.01	4.53	23.39	7.00	38.45	PASS	
				1#47	20.79	4.53	25.32	7.00	38.45	PASS	
			15	1#0	20.58	4.53	25.11	7.00	38.45	PASS	
				1#11	20.28	4.53	24.81	7.00	38.45	PASS	
		QPSK	3.75	1#0	20.04	4.53	24.57	7.00	38.45	PASS	
				1#47	19.81	4.53	24.34	7.00	38.45	PASS	
			15	1#0	19.52	4.53	24.05	7.00	38.45	PASS	
				1#11	20.77	4.53	25.30	7.00	38.45	PASS	
				12#0	20.56	4.53	25.09	7.00	38.45	PASS	
				1#0	20.50	4.53	25.03	7.00	38.45	PASS	
		Middle	BPSK	3.75	1#0	21.46	4.53	25.99	7.00	38.45	PASS
					1#47	21.24	4.53	25.77	7.00	38.45	PASS
	15			1#0	20.96	4.53	25.49	7.00	38.45	PASS	
				1#11	20.74	4.53	25.27	7.00	38.45	PASS	
	QPSK		3.75	1#0	20.50	4.53	25.03	7.00	38.45	PASS	
				1#47	20.25	4.53	24.78	7.00	38.45	PASS	
			15	1#0	19.96	4.53	24.49	7.00	38.45	PASS	
				1#11	21.24	4.53	25.77	7.00	38.45	PASS	
				12#0	21.03	4.53	25.56	7.00	38.45	PASS	
				1#0	21.26	4.53	25.79	7.00	38.45	PASS	
	Highest		BPSK	3.75	1#47	20.98	4.53	25.51	7.00	38.45	PASS
					1#0	20.71	4.53	25.24	7.00	38.45	PASS
		15		1#11	20.44	4.53	24.97	7.00	38.45	PASS	
				1#0	20.16	4.53	24.69	7.00	38.45	PASS	
QPSK		3.75	1#47	19.88	4.53	24.41	7.00	38.45	PASS		
			1#0	19.67	4.53	24.20	7.00	38.45	PASS		
		15	1#11	21.00	4.53	25.53	7.00	38.45	PASS		
			1#0	21.00	4.53	25.53	7.00	38.45	PASS		
			1#11	21.00	4.53	25.53	7.00	38.45	PASS		
			12#0	20.75	4.53	25.28	7.00	38.45	PASS		



NB-IoT Band 12 Maximum Average Power [dBm]										
Mode	UL Channel	Modulation	Subcarrier Space (KHz)	RB Configure	Conduction AVG Power (dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit (W)	EIRP Limit (dBm)	Verdict
Band 12 Stand alone	Lowest	BPSK	3.75	1#0	21.15	4.53	23.53	3.00	34.77	PASS
				1#47	20.86	4.53	25.39	3.00	34.77	PASS
			15	1#0	20.62	4.53	25.15	3.00	34.77	PASS
				1#11	20.34	4.53	24.87	3.00	34.77	PASS
		QPSK	3.75	1#0	20.06	4.53	24.59	3.00	34.77	PASS
				1#47	19.86	4.53	24.39	3.00	34.77	PASS
			15	1#0	19.57	4.53	24.10	3.00	34.77	PASS
				1#11	20.92	4.53	25.45	3.00	34.77	PASS
	12#0			20.72	4.53	25.25	3.00	34.77	PASS	
	1#0			20.71	4.53	25.24	3.00	34.77	PASS	
	Middle	BPSK	3.75	1#0	20.71	4.53	25.24	3.00	34.77	PASS
				1#47	20.44	4.53	24.97	3.00	34.77	PASS
			15	1#0	20.16	4.53	24.69	3.00	34.77	PASS
				1#11	19.91	4.53	24.44	3.00	34.77	PASS
		QPSK	3.75	1#0	19.62	4.53	24.15	3.00	34.77	PASS
				1#47	19.39	4.53	23.92	3.00	34.77	PASS
			15	1#0	19.11	4.53	23.64	3.00	34.77	PASS
				1#11	20.51	4.53	25.04	3.00	34.77	PASS
	12#0	20.29	4.53	24.82	3.00	34.77	PASS			
	Highest	BPSK	3.75	1#0	21.45	4.53	25.98	3.00	34.77	PASS
				1#47	21.23	4.53	25.76	3.00	34.77	PASS
			15	1#0	21.00	4.53	25.53	3.00	34.77	PASS
				1#11	20.74	4.53	25.27	3.00	34.77	PASS
			QPSK	3.75	1#0	20.51	4.53	25.04	3.00	34.77
1#47					20.27	4.53	24.80	3.00	34.77	PASS
15		1#0		20.04	4.53	24.57	3.00	34.77	PASS	
		1#11		21.23	4.53	25.76	3.00	34.77	PASS	
12#0		20.98	4.53	25.51	3.00	34.77	PASS			



NB-IoT Band 13 Maximum Average Power [dBm]										
Mode	UL Channel	Modulation	Subcarrier Space (KHz)	RB Configure	Conduction AVG Power (dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit (W)	EIRP Limit (dBm)	Verdict
Band 13 Stand alone	Lowest	BPSK	3.75	1#0	21.15	4.53	23.53	3.00	34.77	PASS
				1#47	20.94	4.53	25.47	3.00	34.77	PASS
			15	1#0	20.70	4.53	25.23	3.00	34.77	PASS
				1#11	20.46	4.53	24.99	3.00	34.77	PASS
		QPSK	3.75	1#0	20.24	4.53	24.77	3.00	34.77	PASS
				1#47	20.03	4.53	24.56	3.00	34.77	PASS
			15	1#0	19.83	4.53	24.36	3.00	34.77	PASS
				1#11	20.94	4.53	25.47	3.00	34.77	PASS
	12#0			20.68	4.53	25.21	3.00	34.77	PASS	
	1#0			20.24	4.53	24.77	3.00	34.77	PASS	
	Middle	BPSK	3.75	1#0	21.22	4.53	25.75	3.00	34.77	PASS
				1#47	21.02	4.53	25.55	3.00	34.77	PASS
			15	1#0	20.76	4.53	25.29	3.00	34.77	PASS
				1#11	20.53	4.53	25.06	3.00	34.77	PASS
		QPSK	3.75	1#0	20.23	4.53	24.76	3.00	34.77	PASS
				1#47	19.99	4.53	24.52	3.00	34.77	PASS
			15	1#0	19.78	4.53	24.31	3.00	34.77	PASS
				1#11	20.93	4.53	25.46	3.00	34.77	PASS
	12#0	20.67	4.53	25.20	3.00	34.77	PASS			
	Highest	BPSK	3.75	1#0	21.14	4.53	25.67	3.00	34.77	PASS
				1#47	20.86	4.53	25.39	3.00	34.77	PASS
			15	1#0	20.57	4.53	25.10	3.00	34.77	PASS
				1#11	20.34	4.53	24.87	3.00	34.77	PASS
			QPSK	3.75	1#0	20.05	4.53	24.58	3.00	34.77
1#47					19.84	4.53	24.37	3.00	34.77	PASS
15		1#0		19.57	4.53	24.10	3.00	34.77	PASS	
		1#11		20.90	4.53	25.43	3.00	34.77	PASS	
12#0		20.66	4.53	25.19	3.00	34.77	PASS			



NB-IoT Band 25 Maximum Average Power [dBm]											
Mode	UL Channel	Modulation	Subcarrier Space (KHz)	RB Configure	Conduction AVG Power (dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit (W)	EIRP Limit (dBm)	Verdict	
Band 25 Stand alone	Lowest	BPSK	3.75	1#0	21.06	4.53	25.59	2.00	33.01	PASS	
				1#47	20.79	4.53	25.32	2.00	33.01	PASS	
			15	1#0	20.58	4.53	25.11	2.00	33.01	PASS	
				1#11	20.30	4.53	24.83	2.00	33.01	PASS	
		QPSK	3.75	1#0	20.00	4.53	24.53	2.00	33.01	PASS	
				1#47	19.78	4.53	24.31	2.00	33.01	PASS	
			15	1#0	19.57	4.53	24.10	2.00	33.01	PASS	
				1#11	20.85	4.53	25.38	2.00	33.01	PASS	
				12#0	20.56	4.53	25.09	2.00	33.01	PASS	
				12#0	20.56	4.53	25.09	2.00	33.01	PASS	
		Middle	BPSK	3.75	1#0	21.32	4.53	25.85	2.00	33.01	PASS
					1#47	21.04	4.53	25.57	2.00	33.01	PASS
	15			1#0	20.80	4.53	25.33	2.00	33.01	PASS	
				1#11	20.58	4.53	25.11	2.00	33.01	PASS	
	QPSK		3.75	1#0	20.38	4.53	24.91	2.00	33.01	PASS	
				1#47	20.11	4.53	24.64	2.00	33.01	PASS	
			15	1#0	19.87	4.53	24.40	2.00	33.01	PASS	
				1#11	21.08	4.53	25.61	2.00	33.01	PASS	
				12#0	20.78	4.53	25.31	2.00	33.01	PASS	
				12#0	20.78	4.53	25.31	2.00	33.01	PASS	
	Highest		BPSK	3.75	1#0	21.33	4.53	25.86	2.00	33.01	PASS
					1#47	21.08	4.53	25.61	2.00	33.01	PASS
		15		1#0	20.83	4.53	25.36	2.00	33.01	PASS	
				1#11	20.57	4.53	25.10	2.00	33.01	PASS	
		QPSK		3.75	1#0	20.29	4.53	24.82	2.00	33.01	PASS
					1#47	20.02	4.53	24.55	2.00	33.01	PASS
			15	1#0	19.80	4.53	24.33	2.00	33.01	PASS	
				1#11	21.05	4.53	25.58	2.00	33.01	PASS	
				12#0	20.76	4.53	25.29	2.00	33.01	PASS	
				12#0	20.76	4.53	25.29	2.00	33.01	PASS	



NB-IoT Band 66 Maximum Average Power [dBm]											
Mode	UL Channel	Modulation	Subcarrier Space (KHz)	RB Configure	Conduction AVG Power (dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit (W)	EIRP Limit (dBm)	Verdict	
Band 66 Stand alone	Lowest	BPSK	3.75	1#0	21.15	4.53	25.68	1.00	30.00	PASS	
				1#47	20.86	4.53	25.39	1.00	30.00	PASS	
			15	1#0	20.60	4.53	25.13	1.00	30.00	PASS	
				1#11	20.34	4.53	24.87	1.00	30.00	PASS	
		QPSK	3.75	1#0	20.08	4.53	24.61	1.00	30.00	PASS	
				1#47	19.87	4.53	24.40	1.00	30.00	PASS	
			15	1#0	19.58	4.53	24.11	1.00	30.00	PASS	
				1#11	20.87	4.53	25.40	1.00	30.00	PASS	
				12#0	20.64	4.53	25.17	1.00	30.00	PASS	
				1#0	20.08	4.53	24.61	1.00	30.00	PASS	
		Middle	BPSK	3.75	1#0	21.20	4.53	25.73	1.00	30.00	PASS
					1#47	20.92	4.53	25.45	1.00	30.00	PASS
	15			1#0	20.71	4.53	25.24	1.00	30.00	PASS	
				1#11	20.51	4.53	25.04	1.00	30.00	PASS	
	QPSK		3.75	1#0	20.27	4.53	24.80	1.00	30.00	PASS	
				1#47	19.99	4.53	24.52	1.00	30.00	PASS	
			15	1#0	19.72	4.53	24.25	1.00	30.00	PASS	
				1#11	20.96	4.53	25.49	1.00	30.00	PASS	
				12#0	20.71	4.53	25.24	1.00	30.00	PASS	
				1#0	20.08	4.53	24.61	1.00	30.00	PASS	
	Highest		BPSK	3.75	1#0	21.33	4.53	25.86	1.00	30.00	PASS
					1#47	21.09	4.53	25.62	1.00	30.00	PASS
		15		1#0	20.89	4.53	25.42	1.00	30.00	PASS	
				1#11	20.69	4.53	25.22	1.00	30.00	PASS	
		QPSK		3.75	1#0	20.43	4.53	24.96	1.00	30.00	PASS
					1#47	20.18	4.53	24.71	1.00	30.00	PASS
			15	1#0	19.90	4.53	24.43	1.00	30.00	PASS	
				1#11	21.11	4.53	25.64	1.00	30.00	PASS	
				12#0	20.86	4.53	25.39	1.00	30.00	PASS	
				1#0	20.08	4.53	24.61	1.00	30.00	PASS	



NB-IoT Band 71 Maximum Average Power [dBm]											
Mode	UL Channel	Modulation	Subcarrier Space (KHz)	RB Configure	Conduction AVG Power (dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit (W)	EIRP Limit (dBm)	Verdict	
Band 71 Stand alone	Lowest	BPSK	3.75	1#0	21.31	4.53	23.69	3.00	34.77	PASS	
				1#47	21.10	4.53	25.63	3.00	34.77	PASS	
			15	1#0	20.83	4.53	25.36	3.00	34.77	PASS	
				1#11	20.56	4.53	25.09	3.00	34.77	PASS	
		QPSK	3.75	1#0	20.35	4.53	24.88	3.00	34.77	PASS	
				1#47	20.09	4.53	24.62	3.00	34.77	PASS	
			15	1#0	19.82	4.53	24.35	3.00	34.77	PASS	
				1#11	21.08	4.53	25.61	3.00	34.77	PASS	
				12#0	20.84	4.53	25.37	3.00	34.77	PASS	
				1#0	20.35	4.53	24.88	3.00	34.77	PASS	
		Middle	BPSK	3.75	1#0	21.32	4.53	25.85	3.00	34.77	PASS
					1#47	21.11	4.53	25.64	3.00	34.77	PASS
	15			1#0	20.84	4.53	25.37	3.00	34.77	PASS	
				1#11	20.61	4.53	25.14	3.00	34.77	PASS	
	QPSK		3.75	1#0	20.36	4.53	24.89	3.00	34.77	PASS	
				1#47	20.11	4.53	24.64	3.00	34.77	PASS	
			15	1#0	19.87	4.53	24.40	3.00	34.77	PASS	
				1#11	21.07	4.53	25.60	3.00	34.77	PASS	
				12#0	20.86	4.53	25.39	3.00	34.77	PASS	
				1#0	20.36	4.53	24.89	3.00	34.77	PASS	
	Highest		BPSK	3.75	1#0	21.37	4.53	25.90	3.00	34.77	PASS
					1#47	21.11	4.53	25.64	3.00	34.77	PASS
		15		1#0	20.85	4.53	25.38	3.00	34.77	PASS	
				1#11	20.62	4.53	25.15	3.00	34.77	PASS	
		QPSK	3.75	1#0	20.38	4.53	24.91	3.00	34.77	PASS	
				1#47	20.08	4.53	24.61	3.00	34.77	PASS	
			15	1#0	19.88	4.53	24.41	3.00	34.77	PASS	
				1#11	21.09	4.53	25.62	3.00	34.77	PASS	
				12#0	20.80	4.53	25.33	3.00	34.77	PASS	
				1#0	20.38	4.53	24.91	3.00	34.77	PASS	



NB-IoT Band 85 Maximum Average Power [dBm]											
Mode	UL Channel	Modulation	Subcarrier Space (KHz)	RB Configure	Conduction AVG Power (dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit (W)	EIRP Limit (dBm)	Verdict	
Band 85 Stand alone	Lowest	BPSK	3.75	1#0	25.62	4.53	28.00	3.00	34.77	PASS	
				1#47	25.6	4.53	30.13	3.00	34.77	PASS	
			15	1#0	25.6	4.53	30.13	3.00	34.77	PASS	
				1#11	25.6	4.53	30.13	3.00	34.77	PASS	
		QPSK	3.75	1#0	21.14	4.53	25.67	3.00	34.77	PASS	
				1#47	21.21	4.53	25.74	3.00	34.77	PASS	
			15	1#0	21.24	4.53	25.77	3.00	34.77	PASS	
				1#11	21.18	4.53	25.71	3.00	34.77	PASS	
				12#0	23.48	4.53	28.01	3.00	34.77	PASS	
				1#0	23.48	4.53	28.01	3.00	34.77	PASS	
		Middle	BPSK	3.75	1#0	25.56	4.53	30.09	3.00	34.77	PASS
					1#47	25.55	4.53	30.08	3.00	34.77	PASS
	15			1#0	25.6	4.53	30.13	3.00	34.77	PASS	
				1#11	25.56	4.53	30.09	3.00	34.77	PASS	
	QPSK		3.75	1#0	22.25	4.53	26.78	3.00	34.77	PASS	
				1#47	21.18	4.53	25.71	3.00	34.77	PASS	
			15	1#0	21.28	4.53	25.81	3.00	34.77	PASS	
				1#11	21.19	4.53	25.72	3.00	34.77	PASS	
				12#0	23.6	4.53	28.13	3.00	34.77	PASS	
				1#0	23.6	4.53	28.13	3.00	34.77	PASS	
	Highest		BPSK	3.75	1#0	25.35	4.53	29.88	3.00	34.77	PASS
					1#47	25.32	4.53	29.85	3.00	34.77	PASS
		15		1#0	25.33	4.53	29.86	3.00	34.77	PASS	
				1#11	25.31	4.53	29.84	3.00	34.77	PASS	
		QPSK		3.75	1#0	24.04	4.53	28.57	3.00	34.77	PASS
					1#47	24.03	4.53	28.56	3.00	34.77	PASS
			15	1#0	24.07	4.53	28.60	3.00	34.77	PASS	
				1#11	23.98	4.53	28.51	3.00	34.77	PASS	
				12#0	23.31	4.53	27.84	3.00	34.77	PASS	
				1#0	23.31	4.53	27.84	3.00	34.77	PASS	

4. RADIATED SPURIOUS EMISSION

4.1 DESCRIPTION OF RADIATED SPURIOUS EMISSION

5.1.1 MEASUREMENT METHOD

The radiated spurious emission was measured by substitution method according to ANSI C63.26 2015. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB. For Band 7 The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.1.2 TEST SETUP

The procedure of radiated spurious emissions is as follows:

a) Pre-calibration With pre-calibration method, the Radiated Spurious Emissions(RSE) is calculated as, $RSE = Rx (dBuV) + CL (dB) + SA (dB) + Gain (dBi) - 107 (dBuV \text{ to } dBm)$ The SA is calibrated using following setup.

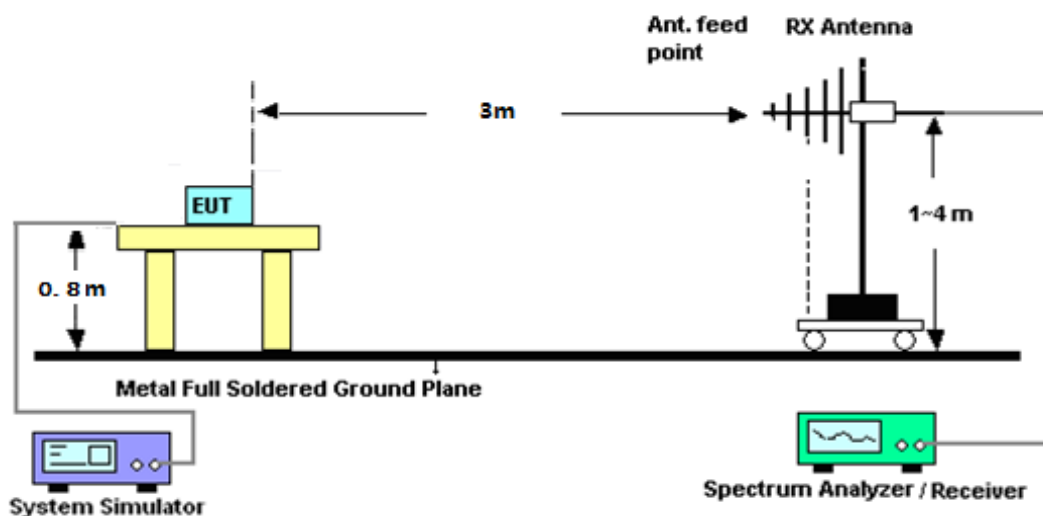
b) EUT was placed on 1.5 m non-conductive stand at a 3 m test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 m from the test item for emission measurements. The height of receiving antenna is 0.8m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the test item and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic measured with peak detector and 1MHz bandwidth.

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of any band into any of the other blocks.

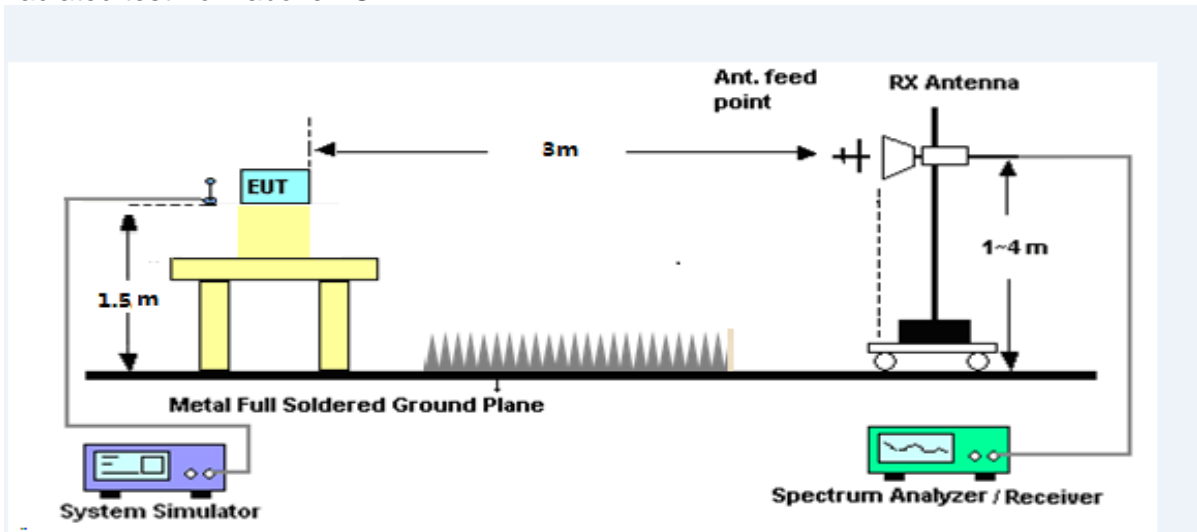
The substitution method is used. Substitution values at each frequency are measured before and saved to the test software. A "reference path loss" is established and the ARpl is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss and the air loss. The measurement results are obtained as described below:

$$Power = P_{Mea} + AR_{pl}$$

For radiated test from 30MHz to 1GHz



For radiated test from above 1GHz



4.1.3 TEST PROCEDURES

1. The testing FCC KDB 971168 D01 Section 7 and ANSI C63.26 2015 Section 5.5.
2. The EUT was placed on a rotatable wooden table with 1.5 meter above ground.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
9. Taking the record of output power at antenna port.
10. Repeat step 7 to step 8 for another polarization.
11. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
 $= -13$ dBm

For Band 7:

The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= [30 + 10\log(P)]$ (dBm) - $[55 + 10\log(P)]$ (dB)
 $= -25$ dBm

EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain

ERP (dBm) = EIRP - 2.15



4.1.4 TEST RESULTS

NB-IoT Band 2 / QPSK / 3.75KHz /1 @0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3700.15	-33.88	12.60	12.93	-34.21	-13.00	-21.21	H
5550.58	-34.67	13.10	17.11	-38.68	-13.00	-25.68	H
7400.38	-32.65	11.50	22.20	-43.35	-13.00	-30.35	H
3700.15	-34.83	12.60	12.93	-35.16	-13.00	-22.16	V
5550.58	-34.84	13.10	17.11	-38.85	-13.00	-25.85	V
7400.38	-32.59	11.50	22.20	-43.29	-13.00	-30.29	V
NB-IoT Band 2 / QPSK / 3.75KHz /1 @0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3760.16	-33.90	12.60	12.93	-34.23	-13.00	-21.23	H
5640.22	-34.03	13.10	17.11	-38.04	-13.00	-25.04	H
7520.15	-33.18	11.50	22.20	-43.88	-13.00	-30.88	H
3760.16	-35.25	12.60	12.93	-35.58	-13.00	-22.58	V
5640.22	-34.81	13.10	17.11	-38.82	-13.00	-25.82	V
7520.15	-32.01	11.50	22.20	-42.71	-13.00	-29.71	V
NB-IoT Band 2 / QPSK / 3.75KHz /1 @0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3819.34	-33.86	12.60	12.93	-34.19	-13.00	-21.19	H
5729.79	-35.31	13.10	17.11	-39.32	-13.00	-26.32	H
7639.31	-33.22	11.50	22.20	-43.92	-13.00	-30.92	H
3819.34	-35.32	12.60	12.93	-35.65	-13.00	-22.65	V
5729.79	-34.39	13.10	17.11	-38.40	-13.00	-25.40	V
7639.31	-32.71	11.50	22.20	-43.41	-13.00	-30.41	V



NB-IoT Band 2 / BPSK / 3.75KHz /1 @0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3700.41	-33.88	12.60	12.93	-34.21	-13.00	-21.21	H
5550.27	-34.61	13.10	17.11	-38.62	-13.00	-25.62	H
7400.62	-33.59	11.50	22.20	-44.29	-13.00	-31.29	H
3700.41	-34.65	12.60	12.93	-34.98	-13.00	-21.98	V
5550.27	-34.83	13.10	17.11	-38.84	-13.00	-25.84	V
7400.62	-32.91	11.50	22.20	-43.61	-13.00	-30.61	V
NB-IoT Band 2 / BPSK / 3.75KHz /1 @0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3759.86	-34.58	12.60	12.93	-34.91	-13.00	-21.91	H
5639.88	-34.45	13.10	17.11	-38.46	-13.00	-25.46	H
7520.18	-33.02	11.50	22.20	-43.72	-13.00	-30.72	H
3759.86	-35.71	12.60	12.93	-36.04	-13.00	-23.04	V
5639.88	-34.60	13.10	17.11	-38.61	-13.00	-25.61	V
7520.18	-33.08	11.50	22.20	-43.78	-13.00	-30.78	V
NB-IoT Band 2 / BPSK / 3.75KHz /1 @0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3819.64	-34.55	12.60	12.93	-34.88	-13.00	-21.88	H
5729.65	-35.40	13.10	17.11	-39.41	-13.00	-26.41	H
7639.24	-33.01	11.50	22.20	-43.71	-13.00	-30.71	H
3819.64	-34.59	12.60	12.93	-34.92	-13.00	-21.92	V
5729.65	-35.01	13.10	17.11	-39.02	-13.00	-26.02	V
7639.24	-32.66	11.50	22.20	-43.36	-13.00	-30.36	V



NB-IoT Band 2 / QPSK / 15KHz / 1 @ 0 / The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3700.32	-34.63	12.60	12.93	-34.96	-13.00	-21.96	H
5550.30	-35.27	13.10	17.11	-39.28	-13.00	-26.28	H
7400.34	-32.61	11.50	22.20	-43.31	-13.00	-30.31	H
3700.32	-35.56	12.60	12.93	-35.89	-13.00	-22.89	V
5550.30	-34.61	13.10	17.11	-38.62	-13.00	-25.62	V
7400.34	-32.62	11.50	22.20	-43.32	-13.00	-30.32	V
NB-IoT Band 2 / QPSK / 15KHz / 1 @ 0 / The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3759.87	-33.55	12.60	12.93	-33.88	-13.00	-20.88	H
5640.08	-35.27	13.10	17.11	-39.28	-13.00	-26.28	H
7520.37	-32.57	11.50	22.20	-43.27	-13.00	-30.27	H
3759.87	-34.81	12.60	12.93	-35.14	-13.00	-22.14	V
5640.08	-34.68	13.10	17.11	-38.69	-13.00	-25.69	V
7520.37	-32.81	11.50	22.20	-43.51	-13.00	-30.51	V
NB-IoT Band 2 / QPSK / 15KHz / 1 @ 0 / The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3819.49	-34.63	12.60	12.93	-34.96	-13.00	-21.96	H
5729.49	-35.45	13.10	17.11	-39.46	-13.00	-26.46	H
7639.50	-32.84	11.50	22.20	-43.54	-13.00	-30.54	H
3819.49	-35.71	12.60	12.93	-36.04	-13.00	-23.04	V
5729.49	-33.97	13.10	17.11	-37.98	-13.00	-24.98	V
7639.50	-32.44	11.50	22.20	-43.14	-13.00	-30.14	V



NB-IoT Band 2 / BPSK / 15KHz / 1 @ 0 / The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3700.12	-34.38	12.60	12.93	-34.71	-13.00	-21.71	H
5550.28	-35.41	13.10	17.11	-39.42	-13.00	-26.42	H
7400.37	-32.24	11.50	22.20	-42.94	-13.00	-29.94	H
3700.12	-34.86	12.60	12.93	-35.19	-13.00	-22.19	V
5550.28	-33.81	13.10	17.11	-37.82	-13.00	-24.82	V
7400.37	-32.01	11.50	22.20	-42.71	-13.00	-29.71	V
NB-IoT Band 2 / BPSK / 15KHz / 1 @ 0 / The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3759.92	-34.26	12.60	12.93	-34.59	-13.00	-21.59	H
5639.97	-35.00	13.10	17.11	-39.01	-13.00	-26.01	H
7520.05	-33.58	11.50	22.20	-44.28	-13.00	-31.28	H
3759.92	-35.36	12.60	12.93	-35.69	-13.00	-22.69	V
5639.97	-34.13	13.10	17.11	-38.14	-13.00	-25.14	V
7520.05	-32.84	11.50	22.20	-43.54	-13.00	-30.54	V
NB-IoT Band 2 / BPSK / 15KHz / 1 @ 0 / The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3819.44	-33.87	12.60	12.93	-34.20	-13.00	-21.20	H
5729.35	-34.99	13.10	17.11	-39.00	-13.00	-26.00	H
7639.32	-32.26	11.50	22.20	-42.96	-13.00	-29.96	H
3819.44	-35.62	12.60	12.93	-35.95	-13.00	-22.95	V
5729.35	-34.90	13.10	17.11	-38.91	-13.00	-25.91	V
7639.32	-32.24	11.50	22.20	-42.94	-13.00	-29.94	V



NB-IoT Band 4 / QPSK / 3.75KHz /1 @0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3420.33	-34.18	12.90	12.56	-33.84	-13.00	-20.84	H
5130.05	-34.09	13.10	16.32	-37.31	-13.00	-24.31	H
6840.55	-32.27	12.33	21.13	-41.07	-13.00	-28.07	H
3420.33	-35.69	12.90	12.56	-35.35	-13.00	-22.35	V
5130.05	-33.84	13.10	16.32	-37.06	-13.00	-24.06	V
6840.55	-32.15	12.33	21.13	-40.95	-13.00	-27.95	V
NB-IoT Band 2 / QPSK / 3.75KHz /1 @0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3494.91	-34.93	12.90	12.56	-34.59	-13.00	-21.59	H
5242.47	-35.03	13.10	16.32	-38.25	-13.00	-25.25	H
6990.12	-33.58	12.33	21.13	-42.38	-13.00	-29.38	H
3494.91	-34.93	12.90	12.56	-34.59	-13.00	-21.59	V
5242.47	-33.80	13.10	16.32	-37.02	-13.00	-24.02	V
6990.12	-32.16	12.33	21.13	-40.96	-13.00	-27.96	V
NB-IoT Band 4 / QPSK / 3.75KHz /1 @0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3510.13	-34.48	12.90	12.56	-34.14	-13.00	-21.14	H
5764.85	-34.53	13.10	16.32	-37.75	-13.00	-24.75	H
7019.82	-33.48	12.33	21.13	-42.28	-13.00	-29.28	H
3510.13	-35.05	12.90	12.56	-34.71	-13.00	-21.71	V
5764.85	-34.55	13.10	16.32	-37.77	-13.00	-24.77	V
7019.82	-32.73	12.33	21.13	-41.53	-13.00	-28.53	V



NB-IoT Band 4 / BPSK / 3.75KHz /1 @0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3420.07	-33.66	12.90	12.56	-33.32	-13.00	-20.32	H
5130.19	-34.54	13.10	16.32	-37.76	-13.00	-24.76	H
6840.17	-33.43	12.33	21.13	-42.23	-13.00	-29.23	H
3420.07	-35.88	12.90	12.56	-35.54	-13.00	-22.54	V
5130.19	-34.18	13.10	16.32	-37.40	-13.00	-24.40	V
6840.17	-31.89	12.33	21.13	-40.69	-13.00	-27.69	V
NB-IoT Band 4 / BPSK / 3.75KHz /1 @0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3495.24	-34.85	12.90	12.56	-34.51	-13.00	-21.51	H
5242.78	-34.23	13.10	16.32	-37.45	-13.00	-24.45	H
6989.94	-32.67	12.33	21.13	-41.47	-13.00	-28.47	H
3495.24	-35.51	12.90	12.56	-35.17	-13.00	-22.17	V
5242.78	-33.95	13.10	16.32	-37.17	-13.00	-24.17	V
6989.94	-32.32	12.33	21.13	-41.12	-13.00	-28.12	V
NB-IoT Band 4 / BPSK / 3.75KHz /1 @0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3510.01	-34.56	12.90	12.56	-34.22	-13.00	-21.22	H
5765.02	-34.38	13.10	16.32	-37.60	-13.00	-24.60	H
7020.23	-32.33	12.33	21.13	-41.13	-13.00	-28.13	H
3510.01	-34.85	12.90	12.56	-34.51	-13.00	-21.51	V
5765.02	-34.75	13.10	16.32	-37.97	-13.00	-24.97	V
7020.23	-33.19	12.33	21.13	-41.99	-13.00	-28.99	V



NB-IoT Band 4 / QPSK / 15KHz / 1 @ 0 / The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3420.27	-33.90	12.90	12.56	-33.56	-13.00	-20.56	H
5130.36	-34.72	13.10	16.32	-37.94	-13.00	-24.94	H
6840.53	-32.94	12.33	21.13	-41.74	-13.00	-28.74	H
3420.27	-35.01	12.90	12.56	-34.67	-13.00	-21.67	V
5130.36	-35.10	13.10	16.32	-38.32	-13.00	-25.32	V
6840.53	-31.99	12.33	21.13	-40.79	-13.00	-27.79	V
NB-IoT Band 4 / QPSK / 15KHz / 1 @ 0 / The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3494.80	-34.19	12.90	12.56	-33.85	-13.00	-20.85	H
5242.38	-35.17	13.10	16.32	-38.39	-13.00	-25.39	H
6990.19	-33.41	12.33	21.13	-42.21	-13.00	-29.21	H
3494.80	-35.15	12.90	12.56	-34.81	-13.00	-21.81	V
5242.38	-34.15	13.10	16.32	-37.37	-13.00	-24.37	V
6990.19	-32.18	12.33	21.13	-40.98	-13.00	-27.98	V
NB-IoT Band 4 / QPSK / 15KHz / 1 @ 0 / The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3510.08	-33.98	12.90	12.56	-33.64	-13.00	-20.64	H
5765.14	-34.68	13.10	16.32	-37.90	-13.00	-24.90	H
7019.87	-32.58	12.33	21.13	-41.38	-13.00	-28.38	H
3510.08	-35.18	12.90	12.56	-34.84	-13.00	-21.84	V
5765.14	-34.34	13.10	16.32	-37.56	-13.00	-24.56	V
7019.87	-33.13	12.33	21.13	-41.93	-13.00	-28.93	V



NB-IoT Band 4 / BPSK / 15KHz / 1 @ 0 / The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3420.00	-33.89	12.90	12.56	-33.55	-13.00	-20.55	H
5130.07	-35.14	13.10	16.32	-38.36	-13.00	-25.36	H
6840.21	-33.64	12.33	21.13	-42.44	-13.00	-29.44	H
3420.00	-35.75	12.90	12.56	-35.41	-13.00	-22.41	V
5130.07	-35.10	13.10	16.32	-38.32	-13.00	-25.32	V
6840.21	-32.55	12.33	21.13	-41.35	-13.00	-28.35	V
NB-IoT Band 4 / BPSK / 15KHz / 1 @ 0 / The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3495.26	-34.92	12.90	12.56	-34.58	-13.00	-21.58	H
5242.34	-35.30	13.10	16.32	-38.52	-13.00	-25.52	H
6989.81	-32.99	12.33	21.13	-41.79	-13.00	-28.79	H
3495.26	-35.89	12.90	12.56	-35.55	-13.00	-22.55	V
5242.34	-34.33	13.10	16.32	-37.55	-13.00	-24.55	V
6989.81	-33.19	12.33	21.13	-41.99	-13.00	-28.99	V
NB-IoT Band 4 / BPSK / 15KHz / 1 @ 0 / The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3509.98	-34.57	12.90	12.56	-34.23	-13.00	-21.23	H
5765.19	-34.42	13.10	16.32	-37.64	-13.00	-24.64	H
7019.79	-33.32	12.33	21.13	-42.12	-13.00	-29.12	H
3509.98	-35.38	12.90	12.56	-35.04	-13.00	-22.04	V
5765.19	-34.46	13.10	16.32	-37.68	-13.00	-24.68	V
7019.79	-33.13	12.33	21.13	-41.93	-13.00	-28.93	V



NB-IoT Band 5 / QPSK / 3.75KHz /1 @0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1648.07	-33.82	9.56	9.72	-33.98	-13.00	-20.98	H
2472.03	-35.20	10.50	10.86	-35.56	-13.00	-22.56	H
3296.20	-32.45	12.78	11.57	-31.24	-13.00	-18.24	H
1648.07	-35.37	9.56	9.72	-35.53	-13.00	-22.53	V
2472.03	-34.89	10.50	10.86	-35.25	-13.00	-22.25	V
3296.20	-32.89	12.78	11.57	-31.68	-13.00	-18.68	V
NB-IoT Band 5 / QPSK / 3.75KHz /1 @0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1673.07	-34.93	9.56	9.72	-35.09	-13.00	-22.09	H
2509.55	-35.24	10.50	10.86	-35.60	-13.00	-22.60	H
3346.14	-33.35	12.78	11.57	-32.14	-13.00	-19.14	H
1673.07	-35.75	9.56	9.72	-35.91	-13.00	-22.91	V
2509.55	-35.07	10.50	10.86	-35.43	-13.00	-22.43	V
3346.14	-32.32	12.78	11.57	-31.11	-13.00	-18.11	V
NB-IoT Band 5 / QPSK / 3.75KHz /1 @0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1697.56	-33.70	9.56	9.72	-33.86	-13.00	-20.86	H
2546.67	-35.36	10.50	10.86	-35.72	-13.00	-22.72	H
3395.74	-32.54	12.78	11.57	-31.33	-13.00	-18.33	H
1697.56	-34.77	9.56	9.72	-34.93	-13.00	-21.93	V
2546.67	-34.24	10.50	10.86	-34.60	-13.00	-21.60	V
3395.74	-32.18	12.78	11.57	-30.97	-13.00	-17.97	V



NB-IoT Band 5 / BPSK / 3.75KHz / 1 @0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1648.09	-34.64	9.56	9.72	-34.80	-13.00	-21.80	H
2472.29	-35.11	10.50	10.86	-35.47	-13.00	-22.47	H
3296.44	-32.26	12.78	11.57	-31.05	-13.00	-18.05	H
1648.09	-35.89	9.56	9.72	-36.05	-13.00	-23.05	V
2472.29	-34.73	10.50	10.86	-35.09	-13.00	-22.09	V
3296.44	-32.36	12.78	11.57	-31.15	-13.00	-18.15	V
NB-IoT Band 5 / BPSK / 3.75KHz / 1 @0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1672.77	-34.61	9.56	9.72	-34.77	-13.00	-21.77	H
2509.29	-35.45	10.50	10.86	-35.81	-13.00	-22.81	H
3345.98	-32.99	12.78	11.57	-31.78	-13.00	-18.78	H
1672.77	-34.90	9.56	9.72	-35.06	-13.00	-22.06	V
2509.29	-35.21	10.50	10.86	-35.57	-13.00	-22.57	V
3345.98	-32.70	12.78	11.57	-31.49	-13.00	-18.49	V
NB-IoT Band 5 / BPSK / 3.75KHz / 1 @0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1697.74	-33.80	9.56	9.72	-33.96	-13.00	-20.96	H
2546.65	-35.44	10.50	10.86	-35.80	-13.00	-22.80	H
3395.71	-32.22	12.78	11.57	-31.01	-13.00	-18.01	H
1697.74	-35.89	9.56	9.72	-36.05	-13.00	-23.05	V
2546.65	-34.93	10.50	10.86	-35.29	-13.00	-22.29	V
3395.71	-32.40	12.78	11.57	-31.19	-13.00	-18.19	V



NB-IoT Band 5 / QPSK / 15KHz / 1 @ 0 / The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1648.05	-33.59	9.56	9.72	-33.75	-13.00	-20.75	H
2471.98	-34.08	10.50	10.86	-34.44	-13.00	-21.44	H
3296.20	-33.28	12.78	11.57	-32.07	-13.00	-19.07	H
1648.05	-34.98	9.56	9.72	-35.14	-13.00	-22.14	V
2471.98	-34.98	10.50	10.86	-35.34	-13.00	-22.34	V
3296.20	-32.08	12.78	11.57	-30.87	-13.00	-17.87	V
NB-IoT Band 5 / QPSK / 15KHz / 1 @ 0 / The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1673.04	-34.86	12.90	12.56	-34.52	-13.00	-21.52	H
2509.66	-34.46	13.10	16.32	-37.68	-13.00	-24.68	H
3345.88	-32.75	12.33	21.13	-41.55	-13.00	-28.55	H
1673.04	-34.85	12.90	12.56	-34.51	-13.00	-21.51	V
2509.66	-33.99	13.10	16.32	-37.21	-13.00	-24.21	V
3345.88	-31.90	12.33	21.13	-40.70	-13.00	-27.70	V
NB-IoT Band 5 / QPSK / 15KHz / 1 @ 0 / The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1697.80	-33.79	9.56	9.72	-33.95	-13.00	-20.95	H
2546.79	-34.90	10.50	10.86	-35.26	-13.00	-22.26	H
3395.36	-32.34	12.78	11.57	-31.13	-13.00	-18.13	H
1697.80	-35.24	9.56	9.72	-35.40	-13.00	-22.40	V
2546.79	-34.19	10.50	10.86	-34.55	-13.00	-21.55	V
3395.36	-32.97	12.78	11.57	-31.76	-13.00	-18.76	V



NB-IoT Band 5 / BPSK / 15KHz / 1@0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1647.94	-34.05	9.56	9.72	-34.21	-13.00	-21.21	H
2471.90	-34.52	10.50	10.86	-34.88	-13.00	-21.88	H
3296.55	-32.70	12.78	11.57	-31.49	-13.00	-18.49	H
1647.94	-35.47	9.56	9.72	-35.63	-13.00	-22.63	V
2471.90	-35.25	10.50	10.86	-35.61	-13.00	-22.61	V
3296.55	-32.18	12.78	11.57	-30.97	-13.00	-17.97	V
NB-IoT Band 5 / BPSK / 15KHz / 1@0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1673.17	-34.02	9.56	9.72	-34.18	-13.00	-21.18	H
2509.45	-34.28	10.50	10.86	-34.64	-13.00	-21.64	H
3346.17	-32.23	12.78	11.57	-31.02	-13.00	-18.02	H
1673.17	-35.78	9.56	9.72	-35.94	-13.00	-22.94	V
2509.45	-34.33	10.50	10.86	-34.69	-13.00	-21.69	V
3346.17	-32.46	12.78	11.57	-31.25	-13.00	-18.25	V
NB-IoT Band 5 / BPSK / 15KHz / 1@0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1697.56	-34.63	9.56	9.72	-34.79	-13.00	-21.79	H
2546.49	-35.36	10.50	10.86	-35.72	-13.00	-22.72	H
3395.40	-32.78	12.78	11.57	-31.57	-13.00	-18.57	H
1697.56	-35.70	9.56	9.72	-35.86	-13.00	-22.86	V
2546.49	-33.86	10.50	10.86	-34.22	-13.00	-21.22	V
3395.40	-31.88	12.78	11.57	-30.67	-13.00	-17.67	V



NB-IoT Band 12 / QPSK / 3.75KHz /1 @0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1398.04	-34.41	8.17	9.34	-35.58	-13.00	-22.58	H
2097.16	-34.42	9.53	10.42	-35.31	-13.00	-22.31	H
2796.39	-32.21	11.27	11.12	-32.06	-13.00	-19.06	H
1398.04	-35.30	8.17	9.34	-36.47	-13.00	-23.47	V
2097.16	-34.15	9.53	10.42	-35.04	-13.00	-22.04	V
2796.39	-33.00	11.27	11.12	-32.85	-13.00	-19.85	V
NB-IoT Band 12 / QPSK / 3.75KHz /1 @0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1415.14	-34.25	8.17	9.34	-35.42	-13.00	-22.42	H
2122.31	-34.80	9.53	10.42	-35.69	-13.00	-22.69	H
2830.19	-32.81	11.27	11.12	-32.66	-13.00	-19.66	H
1415.14	-35.84	8.17	9.34	-37.01	-13.00	-24.01	V
2122.31	-34.20	9.53	10.42	-35.09	-13.00	-22.09	V
2830.19	-31.86	11.27	11.12	-31.71	-13.00	-18.71	V
NB-IoT Band 12 / QPSK / 3.75KHz /1 @0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1431.52	-34.57	8.17	9.34	-35.74	-13.00	-22.74	H
2147.87	-34.37	9.53	10.42	-35.26	-13.00	-22.26	H
2863.73	-33.26	11.27	11.12	-33.11	-13.00	-20.11	H
1431.52	-35.47	8.17	9.34	-36.64	-13.00	-23.64	V
2147.87	-34.36	9.53	10.42	-35.25	-13.00	-22.25	V
2863.73	-31.96	11.27	11.12	-31.81	-13.00	-18.81	V



NB-IoT Band 12 / BPSK / 3.75KHz /1 @0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1398.03	-34.75	8.17	9.34	-35.92	-13.00	-22.92	H
2097.22	-34.74	9.53	10.42	-35.63	-13.00	-22.63	H
2796.62	-33.20	11.27	11.12	-33.05	-13.00	-20.05	H
1398.03	-35.66	8.17	9.34	-36.83	-13.00	-23.83	V
2097.22	-34.17	9.53	10.42	-35.06	-13.00	-22.06	V
2796.62	-33.02	11.27	11.12	-32.87	-13.00	-19.87	V
NB-IoT Band 12 / BPSK / 3.75KHz /1 @0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1415.07	-34.14	8.17	9.34	-35.31	-13.00	-22.31	H
2122.41	-35.34	9.53	10.42	-36.23	-13.00	-23.23	H
2830.15	-32.22	11.27	11.12	-32.07	-13.00	-19.07	H
1415.07	-35.71	8.17	9.34	-36.88	-13.00	-23.88	V
2122.41	-35.11	9.53	10.42	-36.00	-13.00	-23.00	V
2830.15	-33.17	11.27	11.12	-33.02	-13.00	-20.02	V
NB-IoT Band 12 / BPSK / 3.75KHz /1 @0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1431.72	-34.19	8.17	9.34	-35.36	-13.00	-22.36	H
2147.63	-34.93	9.53	10.42	-35.82	-13.00	-22.82	H
2863.41	-32.39	11.27	11.12	-32.24	-13.00	-19.24	H
1431.72	-35.98	8.17	9.34	-37.15	-13.00	-24.15	V
2147.63	-34.31	9.53	10.42	-35.20	-13.00	-22.20	V
2863.41	-32.22	11.27	11.12	-32.07	-13.00	-19.07	V



NB-IoT Band 12 / QPSK / 15KHz /1 @0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1398.09	-33.49	8.17	9.34	-34.66	-13.00	-21.66	H
2097.33	-34.78	9.53	10.42	-35.67	-13.00	-22.67	H
2796.27	-32.22	11.27	11.12	-32.07	-13.00	-19.07	H
1398.09	-35.06	8.17	9.34	-36.23	-13.00	-23.23	V
2097.33	-35.22	9.53	10.42	-36.11	-13.00	-23.11	V
2796.27	-32.74	11.27	11.12	-32.59	-13.00	-19.59	V
NB-IoT Band 12 / QPSK / 15KHz /1 @0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1415.05	-33.51	8.17	9.34	-34.68	-13.00	-21.68	H
2122.32	-35.08	9.53	10.42	-35.97	-13.00	-22.97	H
2830.16	-33.56	11.27	11.12	-33.41	-13.00	-20.41	H
1415.05	-35.55	8.17	9.34	-36.72	-13.00	-23.72	V
2122.32	-34.90	9.53	10.42	-35.79	-13.00	-22.79	V
2830.16	-32.39	11.27	11.12	-32.24	-13.00	-19.24	V
NB-IoT Band 12 / QPSK / 15KHz /1 @0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1431.62	-33.62	8.17	9.34	-34.79	-13.00	-21.79	H
2147.54	-34.57	9.53	10.42	-35.46	-13.00	-22.46	H
2863.74	-33.47	11.27	11.12	-33.32	-13.00	-20.32	H
1431.62	-35.63	8.17	9.34	-36.80	-13.00	-23.80	V
2147.54	-34.89	9.53	10.42	-35.78	-13.00	-22.78	V
2863.74	-33.00	11.27	11.12	-32.85	-13.00	-19.85	V



NB-IoT Band 12 / BPSK / 15KHz /1 @0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1398.07	-34.44	8.17	9.34	-35.61	-13.00	-22.61	H
2097.15	-34.50	9.53	10.42	-35.39	-13.00	-22.39	H
2796.35	-32.74	11.27	11.12	-32.59	-13.00	-19.59	H
1398.07	-34.70	8.17	9.34	-35.87	-13.00	-22.87	V
2097.15	-33.94	9.53	10.42	-34.83	-13.00	-21.83	V
2796.35	-32.63	11.27	11.12	-32.48	-13.00	-19.48	V
NB-IoT Band 12 / BPSK / 15KHz /1 @0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1415.15	-33.98	8.17	9.34	-35.15	-13.00	-22.15	H
2122.65	-34.71	9.53	10.42	-35.60	-13.00	-22.60	H
2829.97	-32.90	11.27	11.12	-32.75	-13.00	-19.75	H
1415.15	-35.16	8.17	9.34	-36.33	-13.00	-23.33	V
2122.65	-34.66	9.53	10.42	-35.55	-13.00	-22.55	V
2829.97	-31.98	11.27	11.12	-31.83	-13.00	-18.83	V
NB-IoT Band 12 / BPSK / 15KHz /1 @0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1431.62	-33.73	8.17	9.34	-34.90	-13.00	-21.90	H
2147.75	-35.48	9.53	10.42	-36.37	-13.00	-23.37	H
2863.36	-33.18	11.27	11.12	-33.03	-13.00	-20.03	H
1431.62	-35.32	8.17	9.34	-36.49	-13.00	-23.49	V
2147.75	-34.14	9.53	10.42	-35.03	-13.00	-22.03	V
2863.36	-32.74	11.27	11.12	-32.59	-13.00	-19.59	V



NB-IoT Band 13 / QPSK / 3.75KHz / 1 @0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1554.06	-48.68	9.56	9.72	-48.84	-13.00	-35.84	H
2331.54	-47.35	10.50	10.86	-47.71	-13.00	-34.71	H
3018.38	-45.69	12.78	11.57	-44.48	-13.00	-31.48	H
1554.06	-47.57	9.56	9.72	-47.73	-13.00	-34.73	V
2331.54	-46.98	10.50	10.86	-47.34	-13.00	-34.34	V
3018.38	-46.35	12.78	11.57	-45.14	-13.00	-32.14	V
NB-IoT Band 13 / QPSK / 3.75KHz / 1 @0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1564.26	-47.67	9.56	9.72	-47.83	-40.00	-7.83	H
2346.12	-46.96	10.50	10.86	-47.32	-13.00	-34.32	H
3127.96	-45.38	12.78	11.57	-44.17	-13.00	-31.17	H
1564.26	-48.68	9.56	9.72	-48.84	-40.00	-8.84	V
2346.12	-46.22	10.50	10.86	-46.58	-13.00	-33.58	V
3127.96	-46.43	12.78	11.57	-45.22	-13.00	-32.22	V
NB-IoT Band 13 / QPSK / 3.75KHz / 1 @0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1573.78	-48.25	9.56	9.72	-48.41	-40.00	-8.41	H
2360.82	-47.29	10.50	10.86	-47.65	-13.00	-34.65	H
3147.50	-45.54	12.78	11.57	-44.33	-13.00	-31.33	H
1573.78	-48.45	9.56	9.72	-48.61	-40.00	-8.61	V
2360.82	-46.62	10.50	10.86	-46.98	-13.00	-33.98	V
3147.50	-45.16	12.78	11.57	-43.95	-13.00	-30.95	V



NB-IoT Band 13 / BPSK / 3.75KHz / 1 @0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1554.19	-47.98	9.56	9.72	-48.14	-13.00	-35.14	H
2331.47	-46.31	10.50	10.86	-46.67	-13.00	-33.67	H
3018.28	-46.60	12.78	11.57	-45.39	-13.00	-32.39	H
1554.19	-48.86	9.56	9.72	-49.02	-13.00	-36.02	V
2331.47	-46.50	10.50	10.86	-46.86	-13.00	-33.86	V
3018.28	-45.26	12.78	11.57	-44.05	-13.00	-31.05	V
NB-IoT Band 13 / BPSK / 3.75KHz / 1 @0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1564.12	-47.79	9.56	9.72	-47.95	-40.00	-7.95	H
2345.72	-46.21	10.50	10.86	-46.57	-13.00	-33.57	H
3128.10	-45.25	12.78	11.57	-44.04	-13.00	-31.04	H
1564.12	-47.84	9.56	9.72	-48.00	-40.00	-8.00	V
2345.72	-46.17	10.50	10.86	-46.53	-13.00	-33.53	V
3128.10	-45.33	12.78	11.57	-44.12	-13.00	-31.12	V
NB-IoT Band 13 / BPSK / 3.75KHz / 1 @0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1574.03	-48.01	9.56	9.72	-48.17	-40.00	-8.17	H
2360.63	-47.03	10.50	10.86	-47.39	-13.00	-34.39	H
3147.46	-45.44	12.78	11.57	-44.23	-13.00	-31.23	H
1574.03	-47.77	9.56	9.72	-47.93	-40.00	-7.93	V
2360.63	-46.42	10.50	10.86	-46.78	-13.00	-33.78	V
3147.46	-46.64	12.78	11.57	-45.43	-13.00	-32.43	V



NB-IoT Band 13 / QPSK / 15KHz /1 @0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1554.01	-48.94	9.56	9.72	-49.10	-13.00	-36.10	H
2331.36	-46.95	10.50	10.86	-47.31	-13.00	-34.31	H
3018.58	-46.20	12.78	11.57	-44.99	-13.00	-31.99	H
1554.01	-48.53	9.56	9.72	-48.69	-13.00	-35.69	V
2331.36	-47.47	10.50	10.86	-47.83	-13.00	-34.83	V
3018.58	-45.48	12.78	11.57	-44.27	-13.00	-31.27	V
NB-IoT Band 13 / QPSK / 15KHz /1 @0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1564.26	-48.29	9.56	9.72	-48.45	-40.00	-8.45	H
2345.74	-46.35	10.50	10.86	-46.71	-13.00	-33.71	H
3128.19	-45.52	12.78	11.57	-44.31	-13.00	-31.31	H
1564.26	-48.55	9.56	9.72	-48.71	-40.00	-8.71	V
2345.74	-46.66	10.50	10.86	-47.02	-13.00	-34.02	V
3128.19	-46.60	12.78	11.57	-45.39	-13.00	-32.39	V
NB-IoT Band 13 / QPSK / 15KHz /1 @0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1573.89	-48.72	9.56	9.72	-48.88	-40.00	-8.88	H
2360.90	-46.21	10.50	10.86	-46.57	-13.00	-33.57	H
3147.40	-46.15	12.78	11.57	-44.94	-13.00	-31.94	H
1573.89	-47.47	9.56	9.72	-47.63	-40.00	-7.63	V
2360.90	-46.64	10.50	10.86	-47.00	-13.00	-34.00	V
3147.40	-46.34	12.78	11.57	-45.13	-13.00	-32.13	V



NB-IoT Band 13 / BPSK / 15KHz /1 @0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1554.23	-48.72	9.56	9.72	-48.88	-13.00	-35.88	H
2331.54	-47.19	10.50	10.86	-47.55	-13.00	-34.55	H
3018.43	-46.21	12.78	11.57	-45.00	-13.00	-32.00	H
1554.23	-47.83	9.56	9.72	-47.99	-13.00	-34.99	V
2331.54	-46.04	10.50	10.86	-46.40	-13.00	-33.40	V
3018.43	-45.70	12.78	11.57	-44.49	-13.00	-31.49	V
NB-IoT Band 13 / BPSK / 15KHz /1 @0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1563.95	-48.54	9.56	9.72	-48.70	-40.00	-8.70	H
2345.82	-46.34	10.50	10.86	-46.70	-13.00	-33.70	H
3128.04	-45.95	12.78	11.57	-44.74	-13.00	-31.74	H
1563.95	-48.08	9.56	9.72	-48.24	-40.00	-8.24	V
2345.82	-47.03	10.50	10.86	-47.39	-13.00	-34.39	V
3128.04	-45.18	12.78	11.57	-43.97	-13.00	-30.97	V
NB-IoT Band 13 / BPSK / 15KHz /1 @0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1573.56	-48.61	9.56	9.72	-48.77	-40.00	-8.77	H
2360.46	-47.10	10.50	10.86	-47.46	-13.00	-34.46	H
3147.71	-46.17	12.78	11.57	-44.96	-13.00	-31.96	H
1573.56	-48.25	9.56	9.72	-48.41	-40.00	-8.41	V
2360.46	-47.16	10.50	10.86	-47.52	-13.00	-34.52	V
3147.71	-45.96	12.78	11.57	-44.75	-13.00	-31.75	V



NB-IoT Band 25 / QPSK / 3.75KHz / 1 @0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3700.12	-33.99	12.60	12.93	-34.32	-13.00	-21.32	H
5550.08	-34.93	13.10	17.11	-38.94	-13.00	-25.94	H
7400.20	-32.98	11.50	22.20	-43.68	-13.00	-30.68	H
3700.12	-35.59	12.60	12.93	-35.92	-13.00	-22.92	V
5550.08	-34.42	13.10	17.11	-38.43	-13.00	-25.43	V
7400.20	-33.16	11.50	22.20	-43.86	-13.00	-30.86	V
NB-IoT Band 25 / QPSK / 3.75KHz / 1 @0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3765.19	-34.32	12.60	12.93	-34.65	-13.00	-21.65	H
5647.37	-35.11	13.10	17.11	-39.12	-13.00	-26.12	H
7530.18	-33.48	11.50	22.20	-44.18	-13.00	-31.18	H
3765.19	-35.35	12.60	12.93	-35.68	-13.00	-22.68	V
5647.37	-34.24	13.10	17.11	-38.25	-13.00	-25.25	V
7530.18	-31.73	11.50	22.20	-42.43	-13.00	-29.43	V
NB-IoT Band 25 / QPSK / 3.75KHz / 1 @0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3829.88	-34.62	12.60	12.93	-34.95	-13.00	-21.95	H
5744.54	-34.88	13.10	17.11	-38.89	-13.00	-25.89	H
7659.39	-32.18	11.50	22.20	-42.88	-13.00	-29.88	H
3829.88	-35.18	12.60	12.93	-35.51	-13.00	-22.51	V
5744.54	-34.84	13.10	17.11	-38.85	-13.00	-25.85	V
7659.39	-32.79	11.50	22.20	-43.49	-13.00	-30.49	V



NB-IoT Band 25 / BPSK / 3.75KHz /1 @0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3700.09	-34.67	12.60	12.93	-35.00	-13.00	-22.00	H
5550.25	-34.58	13.10	17.11	-38.59	-13.00	-25.59	H
7400.23	-33.25	11.50	22.20	-43.95	-13.00	-30.95	H
3700.09	-34.70	12.60	12.93	-35.03	-13.00	-22.03	V
5550.25	-34.94	13.10	17.11	-38.95	-13.00	-25.95	V
7400.23	-32.64	11.50	22.20	-43.34	-13.00	-30.34	V
NB-IoT Band 25 / BPSK / 3.75KHz /1 @0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3765.02	-34.31	12.60	12.93	-34.64	-13.00	-21.64	H
5647.35	-34.65	13.10	17.11	-38.66	-13.00	-25.66	H
7530.02	-32.56	11.50	22.20	-43.26	-13.00	-30.26	H
3765.02	-34.84	12.60	12.93	-35.17	-13.00	-22.17	V
5647.35	-34.67	13.10	17.11	-38.68	-13.00	-25.68	V
7530.02	-32.21	11.50	22.20	-42.91	-13.00	-29.91	V
NB-IoT Band 25 / BPSK / 3.75KHz /1 @0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3830.06	-34.12	12.60	12.93	-34.45	-13.00	-21.45	H
5744.82	-34.22	13.10	17.11	-38.23	-13.00	-25.23	H
7659.71	-33.15	11.50	22.20	-43.85	-13.00	-30.85	H
3830.06	-35.57	12.60	12.93	-35.90	-13.00	-22.90	V
5744.82	-35.00	13.10	17.11	-39.01	-13.00	-26.01	V
7659.71	-32.10	11.50	22.20	-42.80	-13.00	-29.80	V



NB-IoT Band 25 / QPSK / 15KHz /1 @0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3700.18	-34.92	12.60	12.93	-35.25	-13.00	-22.25	H
5550.44	-34.02	13.10	17.11	-38.03	-13.00	-25.03	H
7400.48	-32.56	11.50	22.20	-43.26	-13.00	-30.26	H
3700.18	-35.21	12.60	12.93	-35.54	-13.00	-22.54	V
5550.44	-34.71	13.10	17.11	-38.72	-13.00	-25.72	V
7400.48	-32.62	11.50	22.20	-43.32	-13.00	-30.32	V
NB-IoT Band 25 / QPSK / 15KHz /1 @0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3765.24	-33.99	12.60	12.93	-34.32	-13.00	-21.32	H
5647.65	-34.31	13.10	17.11	-38.32	-13.00	-25.32	H
7530.17	-33.52	11.50	22.20	-44.22	-13.00	-31.22	H
3765.24	-35.39	12.60	12.93	-35.72	-13.00	-22.72	V
5647.65	-33.95	13.10	17.11	-37.96	-13.00	-24.96	V
7530.17	-33.07	11.50	22.20	-43.77	-13.00	-30.77	V
NB-IoT Band 25 / QPSK / 15KHz /1 @0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3829.74	-34.77	12.60	12.93	-35.10	-13.00	-22.10	H
5744.81	-34.79	13.10	17.11	-38.80	-13.00	-25.80	H
7659.61	-33.41	11.50	22.20	-44.11	-13.00	-31.11	H
3829.74	-35.22	12.60	12.93	-35.55	-13.00	-22.55	V
5744.81	-33.79	13.10	17.11	-37.80	-13.00	-24.80	V
7659.61	-32.34	11.50	22.20	-43.04	-13.00	-30.04	V



NB-IoT Band 25 / BPSK / 15KHz /1 @0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3700.27	-34.69	12.60	12.93	-35.02	-13.00	-22.02	H
5550.13	-34.42	13.10	17.11	-38.43	-13.00	-25.43	H
7400.59	-33.13	11.50	22.20	-43.83	-13.00	-30.83	H
3700.27	-34.68	12.60	12.93	-35.01	-13.00	-22.01	V
5550.13	-34.92	13.10	17.11	-38.93	-13.00	-25.93	V
7400.59	-32.24	11.50	22.20	-42.94	-13.00	-29.94	V
NB-IoT Band 25 / BPSK / 15KHz /1 @0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3764.97	-34.43	12.60	12.93	-34.76	-13.00	-21.76	H
5647.44	-34.03	13.10	17.11	-38.04	-13.00	-25.04	H
7529.86	-32.51	11.50	22.20	-43.21	-13.00	-30.21	H
3764.97	-34.94	12.60	12.93	-35.27	-13.00	-22.27	V
5647.44	-33.88	13.10	17.11	-37.89	-13.00	-24.89	V
7529.86	-32.50	11.50	22.20	-43.20	-13.00	-30.20	V
NB-IoT Band 25 / BPSK / 15KHz /1 @0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3829.73	-33.63	12.60	12.93	-33.96	-13.00	-20.96	H
5744.78	-34.78	13.10	17.11	-38.79	-13.00	-25.79	H
7659.34	-32.90	11.50	22.20	-43.60	-13.00	-30.60	H
3829.73	-35.40	12.60	12.93	-35.73	-13.00	-22.73	V
5744.78	-34.63	13.10	17.11	-38.64	-13.00	-25.64	V
7659.34	-32.02	11.50	22.20	-42.72	-13.00	-29.72	V



NB-IoT Band 66 / QPSK / 3.75KHz /1 @0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3419.95	-34.51	12.90	12.56	-34.17	-13.00	-21.17	H
5130.31	-34.45	13.10	16.32	-37.67	-13.00	-24.67	H
6840.45	-32.50	12.33	21.13	-41.30	-13.00	-28.30	H
3419.95	-34.78	12.90	12.56	-34.44	-13.00	-21.44	V
5130.31	-34.66	13.10	16.32	-37.88	-13.00	-24.88	V
6840.45	-32.04	12.33	21.13	-40.84	-13.00	-27.84	V
NB-IoT Band 2 / QPSK / 3.75KHz /1 @0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3489.96	-34.67	12.90	12.56	-34.33	-13.00	-21.33	H
5235.03	-35.31	13.10	16.32	-38.53	-13.00	-25.53	H
6979.87	-32.56	12.33	21.13	-41.36	-13.00	-28.36	H
3489.96	-35.63	12.90	12.56	-35.29	-13.00	-22.29	V
5235.03	-34.71	13.10	16.32	-37.93	-13.00	-24.93	V
6979.87	-32.13	12.33	21.13	-40.93	-13.00	-27.93	V
NB-IoT Band 66 / QPSK / 3.75KHz /1 @0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3559.97	-34.69	12.90	12.56	-34.35	-13.00	-21.35	H
5339.79	-34.91	13.10	16.32	-38.13	-13.00	-25.13	H
7119.71	-32.52	12.33	21.13	-41.32	-13.00	-28.32	H
3559.97	-35.86	12.90	12.56	-35.52	-13.00	-22.52	V
5339.79	-34.47	13.10	16.32	-37.69	-13.00	-24.69	V
7119.71	-31.94	12.33	21.13	-40.74	-13.00	-27.74	V



NB-IoT Band 66 / BPSK / 3.75KHz /1 @0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3420.27	-34.30	12.90	12.56	-33.96	-13.00	-20.96	H
5130.25	-35.28	13.10	16.32	-38.50	-13.00	-25.50	H
6840.60	-32.70	12.33	21.13	-41.50	-13.00	-28.50	H
3420.27	-34.63	12.90	12.56	-34.29	-13.00	-21.29	V
5130.25	-34.47	13.10	16.32	-37.69	-13.00	-24.69	V
6840.60	-32.46	12.33	21.13	-41.26	-13.00	-28.26	V
NB-IoT Band 66 / BPSK / 3.75KHz /1 @0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3490.10	-33.73	12.90	12.56	-33.39	-13.00	-20.39	H
5234.78	-34.93	13.10	16.32	-38.15	-13.00	-25.15	H
6980.10	-32.18	12.33	21.13	-40.98	-13.00	-27.98	H
3490.10	-35.31	12.90	12.56	-34.97	-13.00	-21.97	V
5234.78	-35.20	13.10	16.32	-38.42	-13.00	-25.42	V
6980.10	-32.41	12.33	21.13	-41.21	-13.00	-28.21	V
NB-IoT Band 66 / BPSK / 3.75KHz /1 @0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3559.67	-33.91	12.90	12.56	-33.57	-13.00	-20.57	H
5339.55	-35.12	13.10	16.32	-38.34	-13.00	-25.34	H
7119.38	-32.43	12.33	21.13	-41.23	-13.00	-28.23	H
3559.67	-35.95	12.90	12.56	-35.61	-13.00	-22.61	V
5339.55	-34.51	13.10	16.32	-37.73	-13.00	-24.73	V
7119.38	-32.93	12.33	21.13	-41.73	-13.00	-28.73	V



NB-IoT Band 66 / QPSK / 15KHz /1 @0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3420.25	-34.72	12.90	12.56	-34.38	-13.00	-21.38	H
5130.39	-34.91	13.10	16.32	-38.13	-13.00	-25.13	H
6840.40	-33.04	12.33	21.13	-41.84	-13.00	-28.84	H
3420.25	-35.94	12.90	12.56	-35.60	-13.00	-22.60	V
5130.39	-33.78	13.10	16.32	-37.00	-13.00	-24.00	V
6840.40	-31.96	12.33	21.13	-40.76	-13.00	-27.76	V
NB-IoT Band 66 / QPSK / 15KHz /1 @0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3490.03	-34.66	12.90	12.56	-34.32	-13.00	-21.32	H
5234.76	-34.94	13.10	16.32	-38.16	-13.00	-25.16	H
6979.81	-32.90	12.33	21.13	-41.70	-13.00	-28.70	H
3490.03	-35.72	12.90	12.56	-35.38	-13.00	-22.38	V
5234.76	-34.55	13.10	16.32	-37.77	-13.00	-24.77	V
6979.81	-31.79	12.33	21.13	-40.59	-13.00	-27.59	V
NB-IoT Band 66 / QPSK / 15KHz /1 @0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3559.93	-34.12	12.90	12.56	-33.78	-13.00	-20.78	H
5339.71	-35.40	13.10	16.32	-38.62	-13.00	-25.62	H
7119.42	-33.24	12.33	21.13	-42.04	-13.00	-29.04	H
3559.93	-35.77	12.90	12.56	-35.43	-13.00	-22.43	V
5339.71	-34.50	13.10	16.32	-37.72	-13.00	-24.72	V
7119.42	-33.11	12.33	21.13	-41.91	-13.00	-28.91	V



NB-IoT Band 66 / BPSK / 15KHz /1 @0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3420.37	-34.16	12.90	12.56	-33.82	-13.00	-20.82	H
5130.33	-35.09	13.10	16.32	-38.31	-13.00	-25.31	H
6840.35	-33.01	12.33	21.13	-41.81	-13.00	-28.81	H
3420.37	-34.72	12.90	12.56	-34.38	-13.00	-21.38	V
5130.33	-33.75	13.10	16.32	-36.97	-13.00	-23.97	V
6840.35	-31.94	12.33	21.13	-40.74	-13.00	-27.74	V
NB-IoT Band 66 / BPSK / 15KHz /1 @0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3489.97	-34.04	12.90	12.56	-33.70	-13.00	-20.70	H
5234.76	-35.13	13.10	16.32	-38.35	-13.00	-25.35	H
6980.18	-32.93	12.33	21.13	-41.73	-13.00	-28.73	H
3489.97	-35.58	12.90	12.56	-35.24	-13.00	-22.24	V
5234.76	-34.52	13.10	16.32	-37.74	-13.00	-24.74	V
6980.18	-33.13	12.33	21.13	-41.93	-13.00	-28.93	V
NB-IoT Band 66 / BPSK / 15KHz /1 @0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3559.90	-33.54	12.90	12.56	-33.20	-13.00	-20.20	H
5339.62	-35.36	13.10	16.32	-38.58	-13.00	-25.58	H
7119.39	-32.20	12.33	21.13	-41.00	-13.00	-28.00	H
3559.90	-35.36	12.90	12.56	-35.02	-13.00	-22.02	V
5339.62	-34.50	13.10	16.32	-37.72	-13.00	-24.72	V
7119.39	-32.80	12.33	21.13	-41.60	-13.00	-28.60	V



NB-IoT Band 71 / QPSK / 3.75KHz / 1 @0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1326.01	-33.60	8.17	9.34	-34.77	-13.00	-21.77	H
1989.27	-34.28	9.53	10.42	-35.17	-13.00	-22.17	H
2652.29	-32.43	11.27	11.12	-32.28	-13.00	-19.28	H
1326.01	-35.84	8.17	9.34	-37.01	-13.00	-24.01	V
1989.27	-34.83	9.53	10.42	-35.72	-13.00	-22.72	V
2652.29	-32.76	11.27	11.12	-32.61	-13.00	-19.61	V
NB-IoT Band 71 / QPSK / 3.75KHz / 1 @0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1360.87	-34.81	8.17	9.34	-35.98	-13.00	-22.98	H
2041.51	-35.01	9.53	10.42	-35.90	-13.00	-22.90	H
2722.00	-33.49	11.27	11.12	-33.34	-13.00	-20.34	H
1360.87	-35.75	8.17	9.34	-36.92	-13.00	-23.92	V
2041.51	-33.91	9.53	10.42	-34.80	-13.00	-21.80	V
2722.00	-31.77	11.27	11.12	-31.62	-13.00	-18.62	V
NB-IoT Band 71 / QPSK / 3.75KHz / 1 @0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1395.56	-34.46	8.17	9.34	-35.63	-13.00	-22.63	H
2093.74	-35.35	9.53	10.42	-36.24	-13.00	-23.24	H
2791.77	-33.17	11.27	11.12	-33.02	-13.00	-20.02	H
1395.56	-35.11	8.17	9.34	-36.28	-13.00	-23.28	V
2093.74	-34.88	9.53	10.42	-35.77	-13.00	-22.77	V
2791.77	-31.72	11.27	11.12	-31.57	-13.00	-18.57	V



NB-IoT Band 71 / BPSK / 3.75KHz /1 @0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1326.31	-33.94	8.17	9.34	-35.11	-13.00	-22.11	H
1989.39	-34.92	9.53	10.42	-35.81	-13.00	-22.81	H
2652.52	-32.56	11.27	11.12	-32.41	-13.00	-19.41	H
1326.31	-34.95	8.17	9.34	-36.12	-13.00	-23.12	V
1989.39	-33.78	9.53	10.42	-34.67	-13.00	-21.67	V
2652.52	-33.08	11.27	11.12	-32.93	-13.00	-19.93	V
NB-IoT Band 71 / BPSK / 3.75KHz /1 @0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1361.12	-34.07	8.17	9.34	-35.24	-13.00	-22.24	H
2041.48	-34.98	9.53	10.42	-35.87	-13.00	-22.87	H
2722.05	-32.49	11.27	11.12	-32.34	-13.00	-19.34	H
1361.12	-34.64	8.17	9.34	-35.81	-13.00	-22.81	V
2041.48	-34.19	9.53	10.42	-35.08	-13.00	-22.08	V
2722.05	-32.50	11.27	11.12	-32.35	-13.00	-19.35	V
NB-IoT Band 71 / BPSK / 3.75KHz /1 @0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1395.91	-34.74	8.17	9.34	-35.91	-13.00	-22.91	H
2093.77	-34.94	9.53	10.42	-35.83	-13.00	-22.83	H
2791.75	-32.37	11.27	11.12	-32.22	-13.00	-19.22	H
1395.91	-35.36	8.17	9.34	-36.53	-13.00	-23.53	V
2093.77	-33.87	9.53	10.42	-34.76	-13.00	-21.76	V
2791.75	-32.73	11.27	11.12	-32.58	-13.00	-19.58	V



NB-IoT Band 71 / QPSK / 15KHz /1 @0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1326.11	-34.88	8.17	9.34	-36.05	-13.00	-23.05	H
1989.45	-35.40	9.53	10.42	-36.29	-13.00	-23.29	H
2652.64	-33.08	11.27	11.12	-32.93	-13.00	-19.93	H
1326.11	-35.32	8.17	9.34	-36.49	-13.00	-23.49	V
1989.45	-34.04	9.53	10.42	-34.93	-13.00	-21.93	V
2652.64	-32.62	11.27	11.12	-32.47	-13.00	-19.47	V
NB-IoT Band 71 / QPSK / 15KHz /1 @0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1361.06	-33.98	8.17	9.34	-35.15	-13.00	-22.15	H
2041.30	-34.52	9.53	10.42	-35.41	-13.00	-22.41	H
2721.82	-32.82	11.27	11.12	-32.67	-13.00	-19.67	H
1361.06	-35.70	8.17	9.34	-36.87	-13.00	-23.87	V
2041.30	-33.99	9.53	10.42	-34.88	-13.00	-21.88	V
2721.82	-32.08	11.27	11.12	-31.93	-13.00	-18.93	V
NB-IoT Band 71 / QPSK / 15KHz /1 @0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1395.89	-34.84	8.17	9.34	-36.01	-13.00	-23.01	H
2093.90	-34.64	9.53	10.42	-35.53	-13.00	-22.53	H
2791.62	-33.24	11.27	11.12	-33.09	-13.00	-20.09	H
1395.89	-34.94	8.17	9.34	-36.11	-13.00	-23.11	V
2093.90	-34.74	9.53	10.42	-35.63	-13.00	-22.63	V
2791.62	-33.10	11.27	11.12	-32.95	-13.00	-19.95	V



NB-IoT Band 71 / BPSK / 15KHz /1 @0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1326.34	-34.22	8.17	9.34	-35.39	-13.00	-22.39	H
1989.41	-34.60	9.53	10.42	-35.49	-13.00	-22.49	H
2652.58	-33.42	11.27	11.12	-33.27	-13.00	-20.27	H
1326.34	-35.63	8.17	9.34	-36.80	-13.00	-23.80	V
1989.41	-34.51	9.53	10.42	-35.40	-13.00	-22.40	V
2652.58	-31.92	11.27	11.12	-31.77	-13.00	-18.77	V
NB-IoT Band 71 / BPSK / 15KHz /1 @0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1361.14	-33.72	8.17	9.34	-34.89	-13.00	-21.89	H
2041.28	-34.91	9.53	10.42	-35.80	-13.00	-22.80	H
2721.83	-32.61	11.27	11.12	-32.46	-13.00	-19.46	H
1361.14	-35.60	8.17	9.34	-36.77	-13.00	-23.77	V
2041.28	-35.00	9.53	10.42	-35.89	-13.00	-22.89	V
2721.83	-32.51	11.27	11.12	-32.36	-13.00	-19.36	V
NB-IoT Band 71 / BPSK / 15KHz /1 @0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1395.68	-33.47	8.17	9.34	-34.64	-13.00	-21.64	H
2093.88	-34.90	9.53	10.42	-35.79	-13.00	-22.79	H
2791.33	-32.52	11.27	11.12	-32.37	-13.00	-19.37	H
1395.68	-35.35	8.17	9.34	-36.52	-13.00	-23.52	V
2093.88	-35.18	9.53	10.42	-36.07	-13.00	-23.07	V
2791.33	-32.89	11.27	11.12	-32.74	-13.00	-19.74	V



NB-IoT Band 85 / QPSK / 3.75KHz / 1 @0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1396.13	-33.89	8.17	9.34	-35.06	-13.00	-22.06	H
2094.49	-34.36	9.53	10.42	-35.25	-13.00	-22.25	H
2792.39	-32.22	11.27	11.12	-32.07	-13.00	-19.07	H
1396.13	-35.81	8.17	9.34	-36.98	-13.00	-23.98	V
2094.49	-34.10	9.53	10.42	-34.99	-13.00	-21.99	V
2792.39	-32.23	11.27	11.12	-32.08	-13.00	-19.08	V
NB-IoT Band 85 / QPSK / 3.75KHz / 1 @0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1414.20	-34.72	8.17	9.34	-35.89	-13.00	-22.89	H
2121.07	-35.05	9.53	10.42	-35.94	-13.00	-22.94	H
2827.85	-32.53	11.27	11.12	-32.38	-13.00	-19.38	H
1414.20	-35.58	8.17	9.34	-36.75	-13.00	-23.75	V
2121.07	-34.86	9.53	10.42	-35.75	-13.00	-22.75	V
2827.85	-33.07	11.27	11.12	-32.92	-13.00	-19.92	V
NB-IoT Band 85 / QPSK / 3.75KHz / 1 @0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1431.67	-33.60	8.17	9.34	-34.77	-13.00	-21.77	H
2147.82	-34.57	9.53	10.42	-35.46	-13.00	-22.46	H
2863.80	-33.30	11.27	11.12	-33.15	-13.00	-20.15	H
1431.67	-35.26	8.17	9.34	-36.43	-13.00	-23.43	V
2147.82	-34.89	9.53	10.42	-35.78	-13.00	-22.78	V
2863.80	-31.90	11.27	11.12	-31.75	-13.00	-18.75	V



NB-IoT Band 85 / BPSK / 3.75KHz / 1 @0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1396.15	-34.88	8.17	9.34	-36.05	-13.00	-23.05	H
2094.02	-34.57	9.53	10.42	-35.46	-13.00	-22.46	H
2792.20	-32.26	11.27	11.12	-32.11	-13.00	-19.11	H
1396.15	-34.88	8.17	9.34	-36.05	-13.00	-23.05	V
2094.02	-34.58	9.53	10.42	-35.47	-13.00	-22.47	V
2792.20	-32.62	11.27	11.12	-32.47	-13.00	-19.47	V
NB-IoT Band 85 / BPSK / 3.75KHz / 1 @0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1414.22	-33.63	8.17	9.34	-34.80	-13.00	-21.80	H
2120.80	-34.18	9.53	10.42	-35.07	-13.00	-22.07	H
2827.91	-33.38	11.27	11.12	-33.23	-13.00	-20.23	H
1414.22	-35.48	8.17	9.34	-36.65	-13.00	-23.65	V
2120.80	-34.26	9.53	10.42	-35.15	-13.00	-22.15	V
2827.91	-31.88	11.27	11.12	-31.73	-13.00	-18.73	V
NB-IoT Band 85 / BPSK / 3.75KHz / 1 @0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1431.81	-34.04	8.17	9.34	-35.21	-13.00	-22.21	H
2147.64	-35.42	9.53	10.42	-36.31	-13.00	-23.31	H
2863.55	-32.47	11.27	11.12	-32.32	-13.00	-19.32	H
1431.81	-35.98	8.17	9.34	-37.15	-13.00	-24.15	V
2147.64	-34.24	9.53	10.42	-35.13	-13.00	-22.13	V
2863.55	-33.06	11.27	11.12	-32.91	-13.00	-19.91	V



NB-IoT Band 85 / QPSK / 15KHz /1 @0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1396.26	-34.61	8.17	9.34	-35.78	-13.00	-22.78	H
2094.21	-34.22	9.53	10.42	-35.11	-13.00	-22.11	H
2792.54	-33.49	11.27	11.12	-33.34	-13.00	-20.34	H
1396.26	-35.37	8.17	9.34	-36.54	-13.00	-23.54	V
2094.21	-34.09	9.53	10.42	-34.98	-13.00	-21.98	V
2792.54	-32.11	11.27	11.12	-31.96	-13.00	-18.96	V
NB-IoT Band 85 / QPSK / 15KHz /1 @0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1414.20	-34.42	8.17	9.34	-35.59	-13.00	-22.59	H
2121.05	-35.25	9.53	10.42	-36.14	-13.00	-23.14	H
2828.13	-32.65	11.27	11.12	-32.50	-13.00	-19.50	H
1414.20	-35.41	8.17	9.34	-36.58	-13.00	-23.58	V
2121.05	-33.89	9.53	10.42	-34.78	-13.00	-21.78	V
2828.13	-32.00	11.27	11.12	-31.85	-13.00	-18.85	V
NB-IoT Band 85 / QPSK / 15KHz /1 @0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1431.56	-34.56	8.17	9.34	-35.73	-13.00	-22.73	H
2147.66	-34.07	9.53	10.42	-34.96	-13.00	-21.96	H
2863.60	-32.36	11.27	11.12	-32.21	-13.00	-19.21	H
1431.56	-35.94	8.17	9.34	-37.11	-13.00	-24.11	V
2147.66	-34.97	9.53	10.42	-35.86	-13.00	-22.86	V
2863.60	-32.00	11.27	11.12	-31.85	-13.00	-18.85	V



NB-IoT Band 85 / BPSK / 15KHz /1 @0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1396.00	-34.33	8.17	9.34	-35.50	-13.00	-22.50	H
2094.39	-34.47	9.53	10.42	-35.36	-13.00	-22.36	H
2792.32	-32.44	11.27	11.12	-32.29	-13.00	-19.29	H
1396.00	-35.90	8.17	9.34	-37.07	-13.00	-24.07	V
2094.39	-34.95	9.53	10.42	-35.84	-13.00	-22.84	V
2792.32	-32.03	11.27	11.12	-31.88	-13.00	-18.88	V
NB-IoT Band 85 / BPSK / 15KHz /1 @0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1414.22	-34.84	8.17	9.34	-36.01	-13.00	-23.01	H
2121.15	-35.05	9.53	10.42	-35.94	-13.00	-22.94	H
2827.78	-32.83	11.27	11.12	-32.68	-13.00	-19.68	H
1414.22	-35.77	8.17	9.34	-36.94	-13.00	-23.94	V
2121.15	-34.64	9.53	10.42	-35.53	-13.00	-22.53	V
2827.78	-32.17	11.27	11.12	-32.02	-13.00	-19.02	V
NB-IoT Band 85 / BPSK / 15KHz /1 @0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1431.98	-34.72	8.17	9.34	-35.89	-13.00	-22.89	H
2147.91	-34.13	9.53	10.42	-35.02	-13.00	-22.02	H
2863.40	-33.46	11.27	11.12	-33.31	-13.00	-20.31	H
1431.98	-35.44	8.17	9.34	-36.61	-13.00	-23.61	V
2147.91	-34.84	9.53	10.42	-35.73	-13.00	-22.73	V
2863.40	-32.63	11.27	11.12	-32.48	-13.00	-19.48	V



APPENDIX-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

*****END OF THE REPORT*****

