



RADIO TEST REPORT

Report No.:STS2204200W06

Issued for

Trackimo INC.

450 Seventh Avenue, Suite 1408, New York, United States

Product Name:	NickWatch V1
Brand Name:	Trackimo
Model Name:	TRKNICK001
Series Model:	N/A
FCC ID:	2AAI6-TRKNICK001
Test Standard:	47 CFR Part 2, 22, 24(E), 27, 90

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**TEST RESULT CERTIFICATION****Applicant's Name**: Trackimo INC.

Address: 450 Seventh Avenue, Suite 1408, New York, United States

Manufacturer's Name: Trackimo INC.

Address: 450 Seventh Avenue, Suite 1408, New York, United States

Product Description

Product Name: NickWatch V1

Brand Name: Trackimo

Model Name: TRKNICK001

Series Model: N/A

Test Standards.....: 47 CFR Part 2, 22, 24(E), 27, 90

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.....: 27 Apr. 2022

Date (s) of performance of tests.: 27 Apr. 2022 ~ 10 June 2022

Date of Issue: 10 June 2022

Test Result: Pass

Testing Engineer :

(Chris Chen)

Technical Manager :

(Sean she)

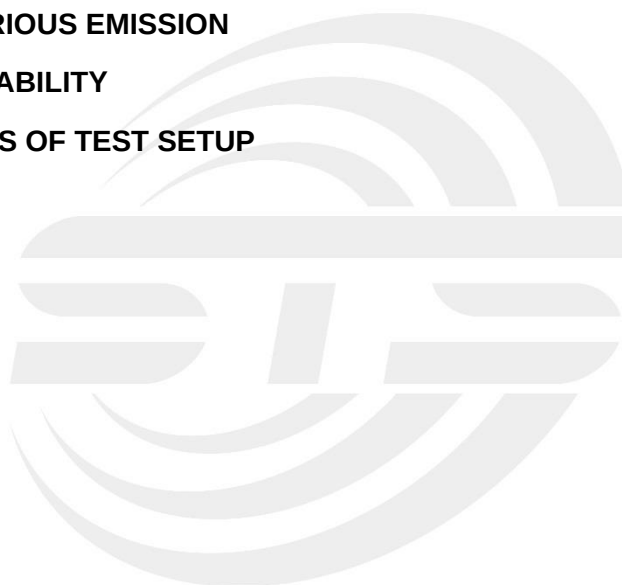
Authorized Signatory :

(Bovey Yang)





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**Revision History**

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	10 June 2022	STS2204200W06	ALL	Initial Issue





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 expended 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	$\pm 0.87\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.895\text{dB}$
3	All emissions, radiated 9K-30MHz	$\pm 3.80\text{dB}$
4	All emissions, radiated 30M-1GHz	$\pm 4.09\text{dB}$
5	All emissions, radiated 1G-6GHz	$\pm 4.92\text{dB}$
6	All emissions, radiated >6G	$\pm 5.49\text{dB}$
7	Conducted Emission (9KHz-30MHz)	$\pm 2.73\text{dB}$



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	NickWatch V1
Trade Name	Trackimo
Model Name	TRKNICK001
Series Model	N/A
Model Difference	N/A
Frequency Bands	U.S. Bands: LTE FDD Band 2 LTE FDD Band 4 LTE FDD Band 5 LTE FDD Band 7 LTE FDD Band 12 LTE FDD Band 17 LTE FDD Band 25 LTE FDD Band 26 LTE TDD Band 38 LTE TDD Band 41
SIM Card	Only support single SIM Card.
Antenna	PIFA
Antenna gain	-3.1dBi
Battery parameter	Rated Voltage:3.85V Charge Limit Voltage:4.35V Capacity: 414mAh
Adapter	Vertical charging stand: Input: DC 5V 1A Output: DC 5V 500mA Round charging stand: Output: DC 5V 500mA
Extreme Vol. Limits	3.35V to 4.35V (Nominal 3.85V)
Extreme Temp. Tolerance	-30°C to +50°C
Hardware version number	UW02 AUO V0.3
Software version number	0.2

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



2.1.2 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

Product Specification Subjective To This Standard	
Tx Frequency	LTE Band 2:1850~1910MHz LTE Band 4:1710~1755MHz LTE Band 5:824~849MHz LTE Band 7:2500~2570MHz LTE Band 12:699~716MHz LTE Band 17:704~716MHz LTE Band 25:1850~1915MHz LTE Band 26:814~849MHz LTE Band 38:2570~2620MHz LTE Band 41:2555~2655MHz
Rx Frequency	LTE Band 2:1930 ~1990MHz LTE Band 4:2110~2155MHz LTE Band 5:869~894MHz LTE Band 7:2500~2570MHz LTE Band 12:729~746MHz LTE Band 17:734~746MHz LTE Band 25:1930~1995MHz LTE Band 26:859~894MHz LTE Band 38:2570~2620MHz LTE Band 41:2555~2655MHz
Bandwidth	LTE Band 2: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 4: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz /20MHz LTE Band 5: 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 7: 5MHz / 10MHz / 15MHz /20MHz LTE Band 12: 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 17: 5MHz / 10MHz LTE Band 25: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz /20MHz LTE Band 26: 1.4MHz / 3MHz / 5MHz / 10MHz/15MHz LTE Band 38: 5MHz / 10MHz / 15MHz /20MHz LTE Band 41: 5MHz / 10MHz / 15MHz /20MHz
Maximum Output Power	LTE Band 2: 23.50 dBm LTE Band 4: 23.14 dBm LTE Band 5: 23.41 dBm LTE Band 7: 22.93 dBm LTE Band 12: 23.60 dBm LTE Band 17: 23.54 dBm LTE Band 25: 25.14 dBm LTE Band 26: 24.12 dBm LTE Band 38: 22.95 dBm LTE Band 41: 23.05 dBm
Type of Modulation	QPSK /16QAM



2.1.3 EMISSION DESIGNATOR

LTE Band 2	Emission Designator	Emission Designator
BW(MHz)	(99%OBW)QPSK	(99%OBW)16QAM
1.4	1M10G7D	1M10W7D
3	2M71G7D	2M72W7D
5	4M51G7D	4M53W7D
10	9M01G7D	8M97W7D
15	13M5G7D	13M5W7D
20	18M0G7D	18M0W7D
LTE Band 4	Emission Designator	Emission Designator
BW(MHz)	(99%OBW)QPSK	(99%OBW)16QAM
1.4	1M10G7D	1M11W7D
3	2M73G7D	2M71W7D
5	4M52G7D	4M51W7D
10	8M99G7D	8M99W7D
15	13M5G7D	13M5W7D
20	18M0G7D	18M0W7D
LTE Band 5	Emission Designator	Emission Designator
BW(MHz)	(99%OBW)QPSK	(99%OBW)16QAM
1.4	1M10G7D	1M10W7D
3	2M71G7D	2M72W7D
5	4M50G7D	4M51W7D
10	8M99G7D	9M01W7D
LTE Band 7	Emission Designator	Emission Designator
BW(MHz)	(99%OBW)QPSK	(99%OBW)16QAM
5	4M53G7D	4M52W7D
10	9M01G7D	9M02W7D
15	13M6G7D	13M5W7D
20	18M1G7D	18M1W7D
LTE Band 12	Emission Designator	Emission Designator
BW(MHz)	(99%OBW)QPSK	(99%OBW)16QAM
1.4	1M09G7D	1M11W7D
3	2M71G7D	2M72W7D
5	4M51G7D	4M52W7D
10	8M99G7D	9M02W7D
LTE Band 17	Emission Designator	Emission Designator
BW(MHz)	(99%OBW)QPSK	(99%OBW)16QAM
5	4M53G7D	4M51W7D
10	9M00G7D	9M00W7D
LTE Band 25	Emission Designator	Emission Designator
BW(MHz)	(99%OBW)QPSK	(99%OBW)16QAM
1.4	1M10G7D	1M10W7D
3	2M71G7D	2M71W7D
5	4M52G7D	4M53W7D
10	8M98G7D	8M99W7D
15	13M5G7D	13M5W7D
20	17M9G7D	17M9W7D



LTE Band 26 (Part 22)	Emission Designator	Emission Designator
BW(MHz)	(99%OBW)QPSK	(99%OBW)16QAM
1.4	1M10G7D	1M11W7D
3	2M70G7D	2M70W7D
5	4M51G7D	4M51W7D
10	8M99G7D	8M99W7D
15	13M5G7D	13M4W7D
LTE Band 26 (Part 90)	Emission Designator	Emission Designator
BW(MHz)	(99%OBW)QPSK	(99%OBW)16QAM
1.4	1M10G7D	1M10W7D
3	2M71G7D	2M71W7D
5	4M55G7D	4M51W7D
10	8M99G7D	8M98W7D
LTE Band 38	Emission Designator	Emission Designator
BW(MHz)	(99%OBW)QPSK	(99%OBW)16QAM
5	4M51G7D	4M51W7D
10	8M99G7D	9M04W7D
15	13M5G7D	13M5W7D
20	17M9G7D	18M0W7D
LTE Band 41	Emission Designator	Emission Designator
BW(MHz)	(99%OBW)QPSK	(99%OBW)16QAM
5	4M51G7D	4M50W7D
10	9M01G7D	9M01W7D
15	13M5G7D	13M5W7D
20	18M0G7D	18M0W7D



2.1.4 TEST CONFIGURATION OF EQUIPMENT UNDER TEST

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 v03r01 and ANSI C63.26 2015 Power Meas. License Digital Systems with maximum output power. Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Remark:

1. The mark 'v' means that this configuration is chosen for testing
2. The mark '-' means that this bandwidth is not supported.
3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated.

ITEMS	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
Max. Output Power	2	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	5	v	v	v	v			v	v	v	v	v	v	v	v
	7			v	v	v	v	v	v	v	v	v	v	v	v
	12	v	v	v	v			v	v	v	v	v	v	v	v
	17			v	v			v	v	v	v	v	v	v	v
	25	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	26	v	v	v	v	v		v	v	v	v	v	v	v	v
	38	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	41			v	v	v	v	v	v	v	v	v	v	v	v
Peak&Avera Ratio	2	v	v	v	v	v	v	v	v	v		v		v	
	4	v	v	v	v	v	v	v	v	v		v		v	
	5	v	v	v	v			v	v	v		v		v	
	7			v	v	v	v	v	v	v		v		v	
	12	v	v	v	v			v	v	v		v		v	
	17			v	v			v	v	v		v		v	
	25	v	v	v	v	v	v	v	v	v		v		v	
	26	v	v	v	v	v		v	v	v		v		v	
	38	v	v	v	v	v		v	v	v		v		v	
	41			v	v	v	v	v	v	v		v		v	
26dB&99% Bandwidth	2	v	v	v	v	v	v	v	v			v		v	
	4	v	v	v	v	v	v	v	v			v		v	
	5	v	v	v	v			v	v			v		v	
	7			v	v	v	v	v	v			v		v	
	12	v	v	v	v			v	v			v		v	
	17			v	v			v	v			v		v	
	25	v	v	v	v	v	v	v	v			v		v	
	26	v	v	v	v	v		v	v			v		v	
	38	v	v	v	v	v		v	v			v		v	
	41			v	v	v	v	v	v			v		v	



Conducted Band Edge	2	v	v	v	v	v	v	v	v			v	v		v
	4	v	v	v	v	v	v	v	v			v	v		v
	5	v	v	v	v			v	v			v	v		v
	7			v	v	v	v	v	v			v	v		v
	12	v	v	v	v			v	v			v	v		v
	17			v	v			v	v			v	v		v
	25	v	v	v	v	v	v	v	v			v	v		v
	26	v	v	v	v	v		v	v			v	v		v
	38	v	v	v	v	v		v	v			v	v		v
	41			v	v	v	v	v	v			v	v		v
Conducted Spurious Emission	2	v	v	v	v	v	v	v	v	v		v	v		v
	4	v	v	v	v	v	v	v	v	v		v	v		v
	5	v	v	v	v			v	v	v		v	v		v
	7			v	v	v	v	v	v	v		v	v		v
	12	v	v	v	v			v	v	v		v	v		v
	17			v	v			v	v	v		v	v		v
	25	v	v	v	v	v	v	v	v	v		v	v		v
	26	v	v	v	v	v		v	v	v		v	v		v
	38	v	v	v	v	v		v	v	v		v	v		v
	41			v	v	v	v	v	v	v		v	v		v
Frequency Stability	2				v			v				v		v	
	4				v			v				v		v	
	5				v			v				v		v	
	7				v			v				v		v	
	12				v			v				v		v	
	17				v			v				v		v	
	25				v			v				v		v	
	26				v			v				v		v	
	38				v			v				v		v	
	41				v			v				v		v	
E.R.P.& E.I.R.P.	2	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	5	v	v	v	v			v	v	v	v	v	v	v	v
	7			v	v	v	v	v	v	v	v	v	v	v	v
	12	v	v	v	v			v	v	v	v	v	v	v	v
	17			v	v			v	v	v	v	v	v	v	v
	25	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	26	v	v	v	v	v		v	v	v	v	v	v	v	v
	38	v	v	v	v	v		v	v	v	v	v	v	v	v
	41			v	v	v	v	v	v	v	v	v	v	v	v



Radiated Spurious Emission	2	V	V	V	V	V	V	V		V			V	V	V
	4	V	V	V	V	V	V	V		V			V	V	V
	5	V	V	V	V			V		V			V	V	V
	7			V	V	V	V	V		V			V	V	V
	12	V	V	V	V			V		V			V	V	V
	17			V	V			V		V			V	V	V
	25	V	V	V	V	V	V	V		V			V	V	V
	26	V	V	V	V	V		V		V			V	V	V
	38	V	V	V	V	V		V		V			V	V	V
	41			V	V	V	V	V		V			V	V	V





2.1.5 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for filing to comply with the 47 CFR Part 2, 22, 24(E), 27, 90.

This submittal(s) (test report) is intended for filing to comply with the 47 CFR Part 2, 24(E), 27, 90.

2.1.6 SPECIAL ACCESSORIES

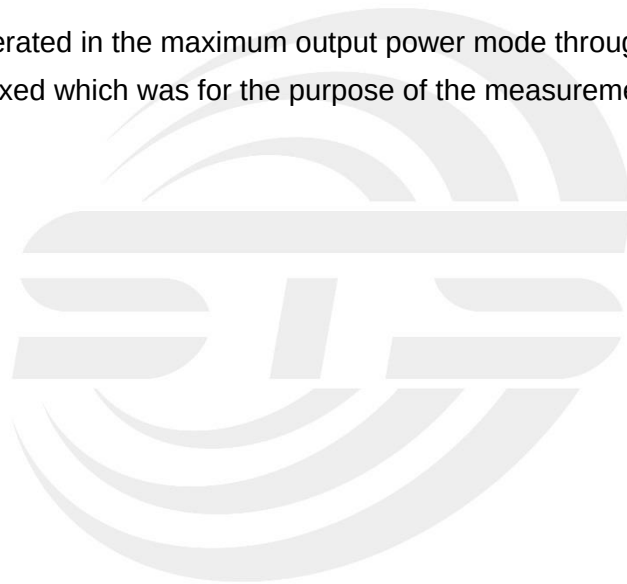
The battery and the charger, earphone supplied by the applicant were used as accessories and being tested with eut intended for fcc grant together.

2.1.7 EUT CONFIGURATION

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.

2.1.8 EUT EXERCISE

The Transmitter was operated in the maximum output power mode through Communication Tester. The TX frequency was fixed which was for the purpose of the measurements.





2.1.9 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.

E-1
EUT

Table 2-1 Equipment Used in EUT System

Item	Equipment	Model No.	Length	Note
N/A	N/A	N/A	N/A	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (2) “YES” is means “with core”; “NO” is means “without core”.



2.1.10 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.

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2021.09.30	2022.09.29
Signal Analyzer	R&S	FSV 40-N	101823	2021.09.30	2022.09.29
Signal Generator	Agilent	83752A	3610A02740	2021.09.30	2022.09.29
Wireless Communications Test Set	R&S	CMW 500	131428	2022.03.01	2023.02.28
Bilog Antenna	TESEQ	CBL6111D	34678	2020.10.12	2022.10.11
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2021.10.11	2023.10.10
Bilog Antenna	TESEQ	CBL6111D	45873	2020.10.12	2022.10.11
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1343	2020.10.12	2022.10.11
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	J211020657	2020.10.12	2022.10.11
Pre-Amplifier (0.1M-3GHz)	EM	EM330	060665	2021.10.08	2022.10.07
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2021.09.30	2022.09.29
Pre-Amplifier (18G-40GHz)	SKET	LNPA-1840-50	SK2018101801	2021.09.28	2022.09.27
Turn table	EM	SC100_1	60531	N/A	N/A
Antenna mast	EM	SC100	N/A	N/A	N/A
Temperature & Humidity	HH660	Mieo	N/A	2021.10.09	2022.10.08
Test SW	BULUN	BL410-E/18.905			

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Universal Radio communication tester	R&S	CMU200	111058	2021.09.29	2022.09.28
Wireless Communications Test Set	R&S	CMW 500	131428	2022.03.01	2023.02.28
Signal Analyzer	Agilent	N9020A	MY52440124	2022.03.01	2023.02.28
Temperature& Humidity test chamber	Safety test	AG80L	171200018	2022.03.01	2023.02.28
Programmable power supply	Agilent	E3642A	MY40002025	2021.10.08	2022.10.07
Temperature & Humidity	SW-108	SuWei	N/A	2022.03.02	2023.03.01
Test SW	FARAD	LZ-RF /LzRf-3A3			



2.1.11 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) $ERP \text{ or } EIRP = P_{Meas} + GT$

$ERP = EIRP - 2.15$

where

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

P_{Meas} measured transmitter output power or PSD, in dBm or dBW

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

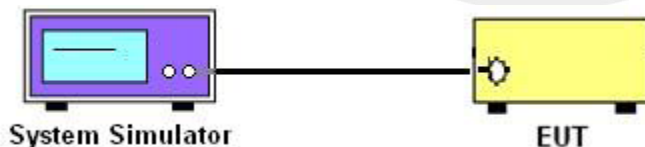
For devices utilizing multiple antennas, see 6.4 for guidance with respect to determining the effective array transmit antenna gain term to be used in the above equation.

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

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

b) $EIRP = ERP + 2.15$, 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

Note: The test data please reference to attachment “STS2204200W06_Appendix LTE”.

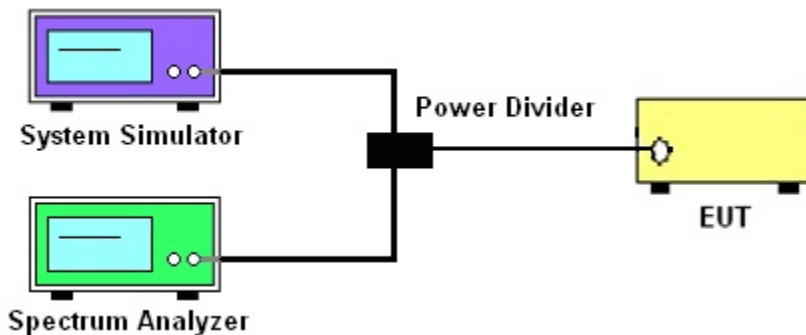
4. PEAK-TO-AVERAGE RATIO

4.1 DESCRIPTION OF THE CONDUCTED OUTPUT POWER MEASUREMENT

4.1.1 MEASUREMENT METHOD

Use one of the procedures presented in 4.1.3 to measure the total peak power and record as PPK. Use one of the applicable procedures presented 4.1.3 to measure the total average power and record as PAvg. Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from:
 $PAPR (dB) = PPK (dBm) - PAvg (dBm)$.

4.1.2 TEST SETUP



4.1.3 TEST PROCEDURES

1. The testing follows FCC KDB 971168 D01 v03r01 Section 5.7 and ANSI C63.26 2015 Section 5.2.6.
2. The EUT was connected to spectrum and system simulator via a power divider
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Set the test probe and measure the peak and average power of the spectrum analyzer
5. Record the deviation as Peak to Average Ratio.

4.1.4 TEST RESULTS

Note: The test data please reference to attachment “STS2204200W06_Appendix LTE”.

5. OCCUPIED BANDWIDTH

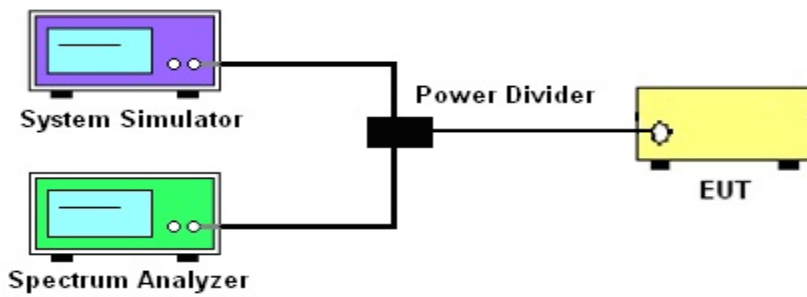
5.1 DESCRIPTION OF OCCUPIED BANDWIDTH MEASUREMENT

5.1.1 MEASUREMENT METHOD

1. The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

2. The 26 db emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 db below the maximum in-band spectral density of the modulated signal. spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

5.1.2 TEST SETUP



5.1.3 TEST PROCEDURES

1. The testing follows FCC KDB 971168 D01 v03r01 Section 4.2 and 4.3.
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Set the test probe and measure the Occupied Bandwidth of the spectrum analyzer.
5. Measure and record the Occupied Bandwidth from the Spectrum Analyzer.

5.1.4 MEASUREMENT RESULT

Note: The test data please reference to attachment "STS2204200W06_Appendix LTE".



6. CONDUCTED BAND EDGE

6.1 DESCRIPTION OF CONDUCTED BAND EDGE MEASUREMENT

6.1.1 MEASUREMENT METHOD

1. §22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

2. §24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed

3. §27.53 (h)

For operations in the 1710 – 1755 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

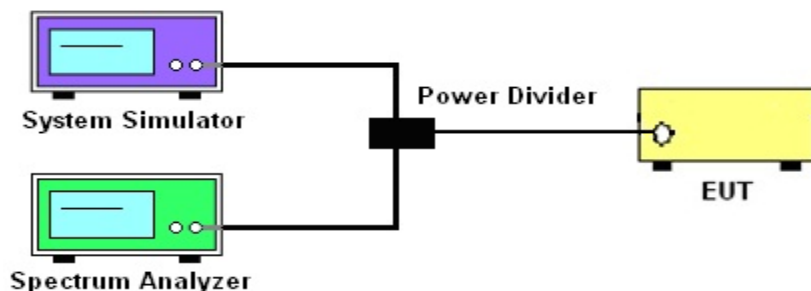
4. §27.53(m)(4)

For operations in the 2500 MHz ~ 2570 MHz band this section, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

5. §27.53 (g)

For operations in the 698 -746 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

6.1.2 TEST SETUP



6.1.3 TEST PROCEDURES

1. The testing FCC KDB 971168 D01 v03r01 Section 6.0 and ANSI C63.26 2015 Section 5.7.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured. Set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Set spectrum analyzer with RMS/AVG detector.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$

$$= -13\text{dBm}.$$

Band 7:

$$= P(W) - [55 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [55 + 10\log(P)] \text{ (dB)}$$

$$= -25\text{dBm}.$$

6.1.4 MEASUREMENT RESULT

Note: The test data please reference to attachment "STS2204200W06_Appendix LTE".

7. CONDUCTED SPURIOUS EMISSION

7.1 DESCRIPTION OF CONDUCTED SPURIOUS EMISSION MEASUREMENT

7.1.1 MEASUREMENT METHOD

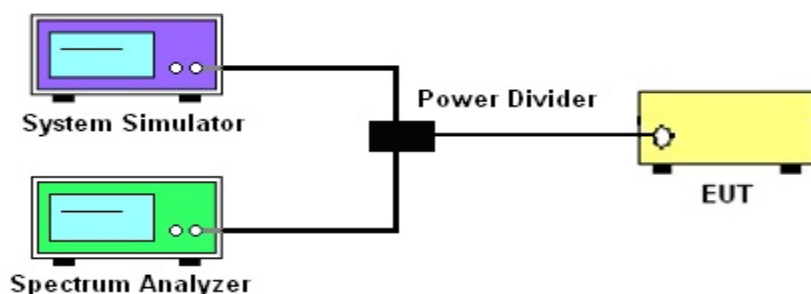
The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For Band 7:

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

7.1.2 TEST SETUP



7.1.3 TEST PROCEDURES

1. The testing FCC KDB 971168 D01 v03r01 Section 6.0 and ANSI C63.26 2015 Section 5.7.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement
4. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)] \text{ (dB)} = [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}.$
 For Band 7: $P(W) - [43 + 10\log(P)] \text{ (dB)} = -25\text{dBm}$

7.1.4 TEST RESULTS

Note: The test data please reference to attachment "STS2204200W06_Appendix LTE".

8. RADIATED SPURIOUS EMISSION

8.1 DESCRIPTION OF RADIATED SPURIOUS EMISSION

8.1.1 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.

8.1.2 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.

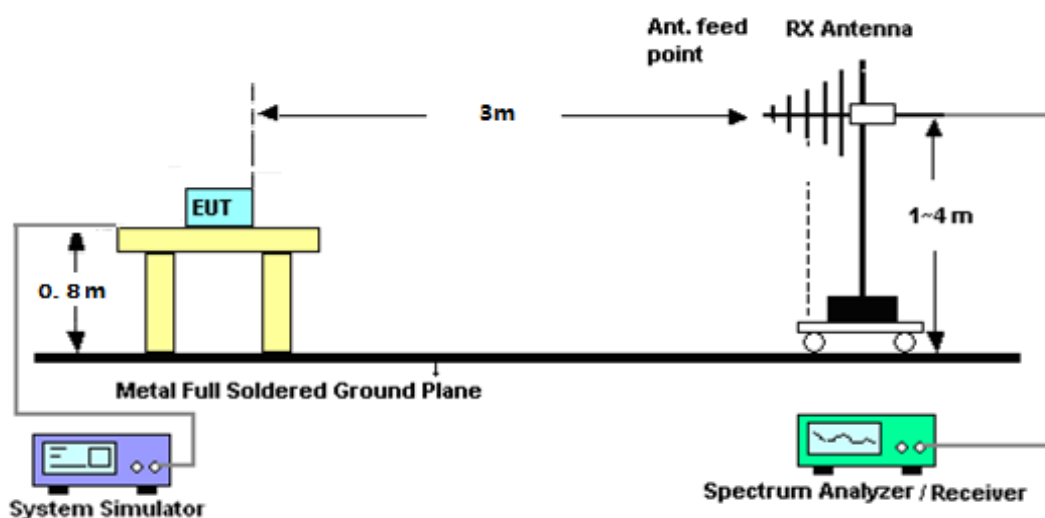
b) EUT was placed on 1.5 m non-conductive stand at a 3 m test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 m from the test item for emission measurements. The height of receiving antenna is 0.8m. The test setup refers to figure below. Detected emissions were 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.

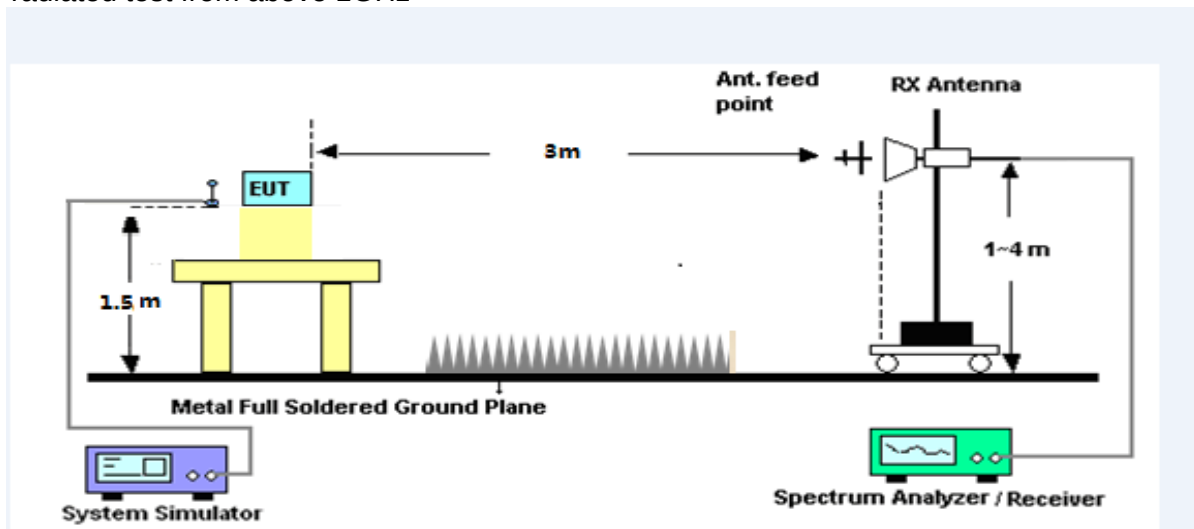
The substitution method is used. Substitution values at each frequency are measured before and saved to the test software. A "reference path loss" is established and the ARpl is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable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

Power=PMea+ARpl

For radiated test from 30MHz to 1GHz



For radiated test from above 1GHz



8.1.3 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

$P_{Mea} = S.G \text{ Level} + \text{Ant-Cable loss}; \text{Margin} = P_{Mea} - \text{Limit}.$



8.1.4 TEST RESULTS

LTE Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3701.26	-33.48	12.60	12.93	-33.81	-13.00	-20.81	H
5551.84	-34.30	13.10	17.11	-38.31	-13.00	-25.31	H
7402.84	-33.03	11.50	22.20	-43.73	-13.00	-30.73	H
3701.26	-35.20	12.60	12.93	-35.53	-13.00	-22.53	V
5551.84	-34.15	13.10	17.11	-38.16	-13.00	-25.16	V
7402.84	-32.33	11.50	22.20	-43.03	-13.00	-30.03	V
LTE Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3759.96	-34.82	12.60	12.93	-35.15	-13.00	-22.15	H
5639.91	-34.44	13.10	17.11	-38.45	-13.00	-25.45	H
7520.29	-32.71	11.50	22.20	-43.41	-13.00	-30.41	H
3759.96	-35.82	12.60	12.93	-36.15	-13.00	-23.15	V
5639.91	-34.39	13.10	17.11	-38.40	-13.00	-25.40	V
7520.29	-32.78	11.50	22.20	-43.48	-13.00	-30.48	V
LTE Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3818.45	-33.84	12.60	12.93	-34.17	-13.00	-21.17	H
5727.44	-34.76	13.10	17.11	-38.77	-13.00	-25.77	H
7637.03	-32.36	11.50	22.20	-43.06	-13.00	-30.06	H
3818.45	-35.31	12.60	12.93	-35.64	-13.00	-22.64	V
5727.44	-33.78	13.10	17.11	-37.79	-13.00	-24.79	V
7637.03	-32.42	11.50	22.20	-43.12	-13.00	-30.12	V



LTE Band 2 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3703.05	-34.82	12.60	12.93	-35.15	-13.00	-22.15	H
5554.42	-35.20	13.10	17.11	-39.21	-13.00	-26.21	H
7405.98	-33.58	11.50	22.20	-44.28	-13.00	-31.28	H
3703.05	-35.60	12.60	12.93	-35.93	-13.00	-22.93	V
5554.42	-34.65	13.10	17.11	-38.66	-13.00	-25.66	V
7405.98	-33.17	11.50	22.20	-43.87	-13.00	-30.87	V
LTE Band 2 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3759.97	-34.30	12.60	12.93	-34.63	-13.00	-21.63	H
5639.81	-34.50	13.10	17.11	-38.51	-13.00	-25.51	H
7519.81	-32.26	11.50	22.20	-42.96	-13.00	-29.96	H
3759.97	-35.16	12.60	12.93	-35.49	-13.00	-22.49	V
5639.81	-34.30	13.10	17.11	-38.31	-13.00	-25.31	V
7519.81	-32.19	11.50	22.20	-42.89	-13.00	-29.89	V
LTE Band 2 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3817.21	-33.67	12.60	12.93	-34.00	-13.00	-21.00	H
5725.61	-34.19	13.10	17.11	-38.20	-13.00	-25.20	H
7634.01	-32.84	11.50	22.20	-43.54	-13.00	-30.54	H
3817.21	-35.85	12.60	12.93	-36.18	-13.00	-23.18	V
5725.61	-34.69	13.10	17.11	-38.70	-13.00	-25.70	V
7634.01	-32.90	11.50	22.20	-43.60	-13.00	-30.60	V



LTE Band 2 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3705.37	-34.41	12.60	12.93	-34.74	-13.00	-21.74	H
5557.43	-35.11	13.10	17.11	-39.12	-13.00	-26.12	H
7410.07	-32.58	11.50	22.20	-43.28	-13.00	-30.28	H
3705.37	-35.39	12.60	12.93	-35.72	-13.00	-22.72	V
5557.43	-34.15	13.10	17.11	-38.16	-13.00	-25.16	V
7410.07	-33.01	11.50	22.20	-43.71	-13.00	-30.71	V
LTE Band 2 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3759.90	-33.73	12.60	12.93	-34.06	-13.00	-21.06	H
5640.07	-35.09	13.10	17.11	-39.10	-13.00	-26.10	H
7520.11	-33.02	11.50	22.20	-43.72	-13.00	-30.72	H
3759.90	-34.79	12.60	12.93	-35.12	-13.00	-22.12	V
5640.07	-35.17	13.10	17.11	-39.18	-13.00	-26.18	V
7520.11	-32.77	11.50	22.20	-43.47	-13.00	-30.47	V
LTE Band 2 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3815.31	-34.26	12.60	12.93	-34.59	-13.00	-21.59	H
5722.28	-34.39	13.10	17.11	-38.40	-13.00	-25.40	H
7630.06	-33.08	11.50	22.20	-43.78	-13.00	-30.78	H
3815.31	-34.72	12.60	12.93	-35.05	-13.00	-22.05	V
5722.28	-33.95	13.10	17.11	-37.96	-13.00	-24.96	V
7630.06	-31.90	11.50	22.20	-42.60	-13.00	-29.60	V



LTE Band 2 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3710.15	-34.77	12.60	12.93	-35.10	-13.00	-22.10	H
5565.36	-35.37	13.10	17.11	-39.38	-13.00	-26.38	H
7420.09	-33.31	11.50	22.20	-44.01	-13.00	-31.01	H
3710.15	-34.97	12.60	12.93	-35.30	-13.00	-22.30	V
5565.36	-33.88	13.10	17.11	-37.89	-13.00	-24.89	V
7420.09	-32.32	11.50	22.20	-43.02	-13.00	-30.02	V
LTE Band 2 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3760.08	-34.10	12.60	12.93	-34.43	-13.00	-21.43	H
5640.17	-34.56	13.10	17.11	-38.57	-13.00	-25.57	H
7519.87	-33.52	11.50	22.20	-44.22	-13.00	-31.22	H
3760.08	-34.93	12.60	12.93	-35.26	-13.00	-22.26	V
5640.17	-35.08	13.10	17.11	-39.09	-13.00	-26.09	V
7519.87	-32.78	11.50	22.20	-43.48	-13.00	-30.48	V
LTE Band 2 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3810.26	-34.89	12.60	12.93	-35.22	-13.00	-22.22	H
5714.76	-35.05	13.10	17.11	-39.06	-13.00	-26.06	H
7620.15	-32.90	11.50	22.20	-43.60	-13.00	-30.60	H
3810.26	-34.68	12.60	12.93	-35.01	-13.00	-22.01	V
5714.76	-34.22	13.10	17.11	-38.23	-13.00	-25.23	V
7620.15	-32.33	11.50	22.20	-43.03	-13.00	-30.03	V



LTE Band 2 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3715.14	-33.84	12.60	12.93	-34.17	-13.00	-21.17	H
5572.39	-34.31	13.10	17.11	-38.32	-13.00	-25.32	H
7430.84	-32.99	11.50	22.20	-43.69	-13.00	-30.69	H
3715.14	-35.10	12.60	12.93	-35.43	-13.00	-22.43	V
5572.39	-34.47	13.10	17.11	-38.48	-13.00	-25.48	V
7430.84	-32.43	11.50	22.20	-43.13	-13.00	-30.13	V
LTE Band 2 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3760.14	-34.47	12.60	12.93	-34.80	-13.00	-21.80	H
5639.98	-35.07	13.10	17.11	-39.08	-13.00	-26.08	H
7519.82	-33.02	11.50	22.20	-43.72	-13.00	-30.72	H
3760.14	-34.97	12.60	12.93	-35.30	-13.00	-22.30	V
5639.98	-34.53	13.10	17.11	-38.54	-13.00	-25.54	V
7519.82	-32.91	11.50	22.20	-43.61	-13.00	-30.61	V
LTE Band 2 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3805.28	-34.42	12.60	12.93	-34.75	-13.00	-21.75	H
5707.35	-35.45	13.10	17.11	-39.46	-13.00	-26.46	H
7610.06	-33.20	11.50	22.20	-43.90	-13.00	-30.90	H
3805.28	-35.75	12.60	12.93	-36.08	-13.00	-23.08	V
5707.35	-33.80	13.10	17.11	-37.81	-13.00	-24.81	V
7610.06	-32.57	11.50	22.20	-43.27	-13.00	-30.27	V



LTE Band 2 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3720.26	-33.81	12.60	12.93	-34.14	-13.00	-21.14	H
5580.56	-34.76	13.10	17.11	-38.77	-13.00	-25.77	H
7440.06	-33.21	11.50	22.20	-43.91	-13.00	-30.91	H
3720.26	-35.14	12.60	12.93	-35.47	-13.00	-22.47	V
5580.56	-34.29	13.10	17.11	-38.30	-13.00	-25.30	V
7440.06	-31.72	11.50	22.20	-42.42	-13.00	-29.42	V
LTE Band 2 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3759.90	-34.22	12.60	12.93	-34.55	-13.00	-21.55	H
5640.05	-34.44	13.10	17.11	-38.45	-13.00	-25.45	H
7519.96	-32.45	11.50	22.20	-43.15	-13.00	-30.15	H
3759.90	-35.21	12.60	12.93	-35.54	-13.00	-22.54	V
5640.05	-34.26	13.10	17.11	-38.27	-13.00	-25.27	V
7519.96	-33.00	11.50	22.20	-43.70	-13.00	-30.70	V
LTE Band 2 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3799.77	-34.27	12.60	12.93	-34.60	-13.00	-21.60	H
5700.15	-35.47	13.10	17.11	-39.48	-13.00	-26.48	H
7600.15	-33.44	11.50	22.20	-44.14	-13.00	-31.14	H
3799.77	-34.69	12.60	12.93	-35.02	-13.00	-22.02	V
5700.15	-35.16	13.10	17.11	-39.17	-13.00	-26.17	V
7600.15	-31.82	11.50	22.20	-42.52	-13.00	-29.52	V



LTE Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3420.86	-34.02	12.90	12.56	-33.68	-13.00	-20.68	H
5131.90	-34.90	13.10	16.32	-38.12	-13.00	-25.12	H
6842.66	-33.39	12.33	21.13	-42.19	-13.00	-29.19	H
3420.86	-35.88	12.90	12.56	-35.54	-13.00	-22.54	V
5131.90	-34.57	13.10	16.32	-37.79	-13.00	-24.79	V
6842.66	-32.15	12.33	21.13	-40.95	-13.00	-27.95	V
LTE Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3464.87	-34.89	12.90	12.56	-34.55	-13.00	-21.55	H
5196.75	-33.99	13.10	16.32	-37.21	-13.00	-24.21	H
6929.79	-32.82	12.33	21.13	-41.62	-13.00	-28.62	H
3464.87	-35.61	12.90	12.56	-35.27	-13.00	-22.27	V
5196.75	-34.68	13.10	16.32	-37.90	-13.00	-24.90	V
6929.79	-33.06	12.33	21.13	-41.86	-13.00	-28.86	V
LTE Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3508.10	-34.23	12.90	12.56	-33.89	-13.00	-20.89	H
5262.41	-35.28	13.10	16.32	-38.50	-13.00	-25.50	H
7015.70	-32.15	12.33	21.13	-40.95	-13.00	-27.95	H
3508.10	-35.73	12.90	12.56	-35.39	-13.00	-22.39	V
5262.41	-34.39	13.10	16.32	-37.61	-13.00	-24.61	V
7015.70	-31.89	12.33	21.13	-40.69	-13.00	-27.69	V



LTE Band 4 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3423.61	-34.58	12.90	12.56	-34.24	-13.00	-21.24	H
5136.18	-34.37	13.10	16.32	-37.59	-13.00	-24.59	H
6848.47	-32.35	12.33	21.13	-41.15	-13.00	-28.15	H
3423.61	-35.72	12.90	12.56	-35.38	-13.00	-22.38	V
5136.18	-33.79	13.10	16.32	-37.01	-13.00	-24.01	V
6848.47	-33.06	12.33	21.13	-41.86	-13.00	-28.86	V
LTE Band 4 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3464.59	-34.47	12.90	12.56	-34.13	-13.00	-21.13	H
5196.78	-34.08	13.10	16.32	-37.30	-13.00	-24.30	H
6930.01	-33.24	12.33	21.13	-42.04	-13.00	-29.04	H
3464.59	-34.70	12.90	12.56	-34.36	-13.00	-21.36	V
5196.78	-34.05	13.10	16.32	-37.27	-13.00	-24.27	V
6930.01	-32.76	12.33	21.13	-41.56	-13.00	-28.56	V
LTE Band 4 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3506.23	-34.34	12.90	12.56	-34.00	-13.00	-21.00	H
5261.94	-35.26	13.10	16.32	-38.48	-13.00	-25.48	H
7012.63	-32.84	12.33	21.13	-41.64	-13.00	-28.64	H
3506.23	-35.08	12.90	12.56	-34.74	-13.00	-21.74	V
5261.94	-35.01	13.10	16.32	-38.23	-13.00	-25.23	V
7012.63	-32.98	12.33	21.13	-41.78	-13.00	-28.78	V



LTE Band 4 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3424.70	-34.90	12.90	12.56	-34.56	-13.00	-21.56	H
5136.87	-35.29	13.10	16.32	-38.51	-13.00	-25.51	H
6849.73	-32.45	12.33	21.13	-41.25	-13.00	-28.25	H
3424.70	-35.79	12.90	12.56	-35.45	-13.00	-22.45	V
5136.87	-35.20	13.10	16.32	-38.42	-13.00	-25.42	V
6849.73	-32.07	12.33	21.13	-40.87	-13.00	-27.87	V
LTE Band 4 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3464.46	-34.35	12.90	12.56	-34.01	-13.00	-21.01	H
5196.69	-34.59	13.10	16.32	-37.81	-13.00	-24.81	H
6929.95	-33.29	12.33	21.13	-42.09	-13.00	-29.09	H
3464.46	-35.57	12.90	12.56	-35.23	-13.00	-22.23	V
5196.69	-34.42	13.10	16.32	-37.64	-13.00	-24.64	V
6929.95	-32.39	12.33	21.13	-41.19	-13.00	-28.19	V
LTE Band 4 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3504.89	-33.73	12.90	12.56	-33.39	-13.00	-20.39	H
5257.13	-35.28	13.10	16.32	-38.50	-13.00	-25.50	H
7009.81	-32.72	12.33	21.13	-41.52	-13.00	-28.52	H
3504.89	-34.79	12.90	12.56	-34.45	-13.00	-21.45	V
5257.13	-34.63	13.10	16.32	-37.85	-13.00	-24.85	V
7009.81	-32.77	12.33	21.13	-41.57	-13.00	-28.57	V



LTE Band 4 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3429.76	-34.35	12.90	12.56	-34.01	-13.00	-21.01	H
5145.20	-34.95	13.10	16.32	-38.17	-13.00	-25.17	H
6860.13	-33.01	12.33	21.13	-41.81	-13.00	-28.81	H
3429.76	-35.97	12.90	12.56	-35.63	-13.00	-22.63	V
5145.20	-34.01	13.10	16.32	-37.23	-13.00	-24.23	V
6860.13	-31.86	12.33	21.13	-40.66	-13.00	-27.66	V
LTE Band 4 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3464.59	-33.91	12.90	12.56	-33.57	-13.00	-20.57	H
5196.44	-34.60	13.10	16.32	-37.82	-13.00	-24.82	H
6929.60	-33.25	12.33	21.13	-42.05	-13.00	-29.05	H
3464.59	-35.74	12.90	12.56	-35.40	-13.00	-22.40	V
5196.44	-34.73	13.10	16.32	-37.95	-13.00	-24.95	V
6929.60	-32.96	12.33	21.13	-41.76	-13.00	-28.76	V
LTE Band 4 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3500.49	-34.63	12.90	12.56	-34.29	-13.00	-21.29	H
5250.27	-34.69	13.10	16.32	-37.91	-13.00	-24.91	H
6999.77	-32.62	12.33	21.13	-41.42	-13.00	-28.42	H
3500.49	-35.85	12.90	12.56	-35.51	-13.00	-22.51	V
5250.27	-34.32	13.10	16.32	-37.54	-13.00	-24.54	V
6999.77	-32.26	12.33	21.13	-41.06	-13.00	-28.06	V



LTE Band 4 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3435.01	-33.71	12.90	12.56	-33.37	-13.00	-20.37	H
5152.26	-34.82	13.10	16.32	-38.04	-13.00	-25.04	H
6870.75	-33.39	12.33	21.13	-42.19	-13.00	-29.19	H
3435.01	-35.17	12.90	12.56	-34.83	-13.00	-21.83	V
5152.26	-34.05	13.10	16.32	-37.27	-13.00	-24.27	V
6870.75	-32.98	12.33	21.13	-41.78	-13.00	-28.78	V
LTE Band 4 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3465.03	-34.09	12.90	12.56	-33.75	-13.00	-20.75	H
5196.79	-34.14	13.10	16.32	-37.36	-13.00	-24.36	H
6930.17	-32.94	12.33	21.13	-41.74	-13.00	-28.74	H
3465.03	-35.43	12.90	12.56	-35.09	-13.00	-22.09	V
5196.79	-33.97	13.10	16.32	-37.19	-13.00	-24.19	V
6930.17	-32.64	12.33	21.13	-41.44	-13.00	-28.44	V
LTE Band 4 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3495.22	-34.20	12.90	12.56	-33.86	-13.00	-20.86	H
5242.24	-34.69	13.10	16.32	-37.91	-13.00	-24.91	H
6990.28	-33.13	12.33	21.13	-41.93	-13.00	-28.93	H
3495.22	-35.19	12.90	12.56	-34.85	-13.00	-21.85	V
5242.24	-34.35	13.10	16.32	-37.57	-13.00	-24.57	V
6990.28	-31.89	12.33	21.13	-40.69	-13.00	-27.69	V



LTE Band 4 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3440.23	-34.02	12.90	12.56	-33.68	-13.00	-20.68	H
5159.95	-35.48	13.10	16.32	-38.70	-13.00	-25.70	H
6880.58	-33.30	12.33	21.13	-42.10	-13.00	-29.10	H
3440.23	-35.34	12.90	12.56	-35.00	-13.00	-22.00	V
5159.95	-34.43	13.10	16.32	-37.65	-13.00	-24.65	V
6880.58	-32.39	12.33	21.13	-41.19	-13.00	-28.19	V
LTE Band 4 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3464.75	-34.36	12.90	12.56	-34.02	-13.00	-21.02	H
5196.48	-35.14	13.10	16.32	-38.36	-13.00	-25.36	H
6929.84	-32.81	12.33	21.13	-41.61	-13.00	-28.61	H
3464.75	-35.54	12.90	12.56	-35.20	-13.00	-22.20	V
5196.48	-33.88	13.10	16.32	-37.10	-13.00	-24.10	V
6929.84	-32.82	12.33	21.13	-41.62	-13.00	-28.62	V
LTE Band 4 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3490.56	-34.42	12.90	12.56	-34.08	-13.00	-21.08	H
5234.95	-34.52	13.10	16.32	-37.74	-13.00	-24.74	H
6979.64	-32.29	12.33	21.13	-41.09	-13.00	-28.09	H
3490.56	-35.85	12.90	12.56	-35.51	-13.00	-22.51	V
5234.95	-35.18	13.10	16.32	-38.40	-13.00	-25.40	V
6979.64	-32.65	12.33	21.13	-41.45	-13.00	-28.45	V



LTE Band 5 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1648.90	-34.67	9.56	9.72	-34.83	-13.00	-21.83	H
2473.48	-35.15	10.50	10.86	-35.51	-13.00	-22.51	H
3298.51	-32.47	12.78	11.57	-31.26	-13.00	-18.26	H
1648.90	-35.27	9.56	9.72	-35.43	-13.00	-22.43	V
2473.48	-34.41	10.50	10.86	-34.77	-13.00	-21.77	V
3298.51	-32.24	12.78	11.57	-31.03	-13.00	-18.03	V
LTE Band 5 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1672.89	-34.91	9.56	9.72	-35.07	-13.00	-22.07	H
2509.00	-34.62	10.50	10.86	-34.98	-13.00	-21.98	H
3345.58	-32.87	12.78	11.57	-31.66	-13.00	-18.66	H
1672.89	-35.17	9.56	9.72	-35.33	-13.00	-22.33	V
2509.00	-34.98	10.50	10.86	-35.34	-13.00	-22.34	V
3345.58	-31.93	12.78	11.57	-30.72	-13.00	-17.72	V
LTE Band 5 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1696.29	-33.51	9.56	9.72	-33.67	-13.00	-20.67	H
2544.56	-34.03	10.50	10.86	-34.39	-13.00	-21.39	H
3392.90	-32.83	12.78	11.57	-31.62	-13.00	-18.62	H
1696.29	-35.72	9.56	9.72	-35.88	-13.00	-22.88	V
2544.56	-35.22	10.50	10.86	-35.58	-13.00	-22.58	V
3392.90	-32.42	12.78	11.57	-31.21	-13.00	-18.21	V



LTE Band 5 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1650.25	-33.75	9.56	9.72	-33.91	-13.00	-20.91	H
2476.13	-34.28	10.50	10.86	-34.64	-13.00	-21.64	H
3301.30	-32.88	12.78	11.57	-31.67	-13.00	-18.67	H
1650.25	-35.29	9.56	9.72	-35.45	-13.00	-22.45	V
2476.13	-35.07	10.50	10.86	-35.43	-13.00	-22.43	V
3301.30	-32.01	12.78	11.57	-30.80	-13.00	-17.80	V
LTE Band 5 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1672.30	-34.20	9.56	9.72	-34.36	-13.00	-21.36	H
2508.69	-35.15	10.50	10.86	-35.51	-13.00	-22.51	H
3345.57	-32.60	12.78	11.57	-31.39	-13.00	-18.39	H
1672.30	-35.23	9.56	9.72	-35.39	-13.00	-22.39	V
2508.69	-34.14	10.50	10.86	-34.50	-13.00	-21.50	V
3345.57	-32.37	12.78	11.57	-31.16	-13.00	-18.16	V
LTE Band 5 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1694.37	-34.31	9.56	9.72	-34.47	-13.00	-21.47	H
2542.10	-35.41	10.50	10.86	-35.77	-13.00	-22.77	H
3389.30	-33.64	12.78	11.57	-32.43	-13.00	-19.43	H
1694.37	-35.70	9.56	9.72	-35.86	-13.00	-22.86	V
2542.10	-34.57	10.50	10.86	-34.93	-13.00	-21.93	V
3389.30	-33.09	12.78	11.57	-31.88	-13.00	-18.88	V



LTE Band 5 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1652.38	-34.26	9.56	9.72	-34.42	-13.00	-21.42	H
2478.77	-34.28	10.50	10.86	-34.64	-13.00	-21.64	H
3305.74	-32.65	12.78	11.57	-31.44	-13.00	-18.44	H
1652.38	-35.01	9.56	9.72	-35.17	-13.00	-22.17	V
2478.77	-35.05	10.50	10.86	-35.41	-13.00	-22.41	V
3305.74	-32.80	12.78	11.57	-31.59	-13.00	-18.59	V
LTE Band 5 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1672.52	-33.86	9.56	9.72	-34.02	-13.00	-21.02	H
2509.02	-35.15	10.50	10.86	-35.51	-13.00	-22.51	H
3345.30	-33.54	12.78	11.57	-32.33	-13.00	-19.33	H
1672.52	-35.06	9.56	9.72	-35.22	-13.00	-22.22	V
2509.02	-34.95	10.50	10.86	-35.31	-13.00	-22.31	V
3345.30	-32.47	12.78	11.57	-31.26	-13.00	-18.26	V
LTE Band 5 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1692.12	-34.15	9.56	9.72	-34.31	-13.00	-21.31	H
2538.70	-34.19	10.50	10.86	-34.55	-13.00	-21.55	H
3385.73	-33.50	12.78	11.57	-32.29	-13.00	-19.29	H
1692.12	-34.72	9.56	9.72	-34.88	-13.00	-21.88	V
2538.70	-34.31	10.50	10.86	-34.67	-13.00	-21.67	V
3385.73	-32.17	12.78	11.57	-30.96	-13.00	-17.96	V



LTE Band 5 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1657.82	-34.18	9.56	9.72	-34.34	-13.00	-21.34	H
2486.30	-34.44	10.50	10.86	-34.80	-13.00	-21.80	H
3315.05	-32.57	12.78	11.57	-31.36	-13.00	-18.36	H
1657.82	-35.80	9.56	9.72	-35.96	-13.00	-22.96	V
2486.30	-34.40	10.50	10.86	-34.76	-13.00	-21.76	V
3315.05	-32.46	12.78	11.57	-31.25	-13.00	-18.25	V
LTE Band 5 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1672.43	-34.78	9.56	9.72	-34.94	-13.00	-21.94	H
2508.73	-35.02	10.50	10.86	-35.38	-13.00	-22.38	H
3345.27	-33.45	12.78	11.57	-32.24	-13.00	-19.24	H
1672.43	-35.13	9.56	9.72	-35.29	-13.00	-22.29	V
2508.73	-33.85	10.50	10.86	-34.21	-13.00	-21.21	V
3345.27	-32.61	12.78	11.57	-31.40	-13.00	-18.40	V
LTE Band 5 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1687.52	-33.92	9.56	9.72	-34.08	-13.00	-21.08	H
2531.27	-34.27	10.50	10.86	-34.63	-13.00	-21.63	H
3375.69	-32.53	12.78	11.57	-31.32	-13.00	-18.32	H
1687.52	-35.22	9.56	9.72	-35.38	-13.00	-22.38	V
2531.27	-34.19	10.50	10.86	-34.55	-13.00	-21.55	V
3375.69	-32.25	12.78	11.57	-31.04	-13.00	-18.04	V



LTE Band 7 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5005.16	-34.67	12.66	15.86	-37.87	-25.00	-12.87	H
7507.58	-35.12	11.46	19.28	-42.94	-25.00	-17.94	H
10010.58	-32.76	12.79	23.19	-43.16	-25.00	-18.16	H
5005.16	-35.44	12.66	15.86	-38.64	-25.00	-13.64	V
7507.58	-33.84	11.46	19.28	-41.66	-25.00	-16.66	V
10010.58	-32.28	12.79	23.19	-42.68	-25.00	-17.68	V
LTE Band 7 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5069.65	-34.61	12.72	15.86	-37.75	-25.00	-12.75	H
7604.68	-34.77	11.46	19.28	-42.59	-25.00	-17.59	H
10139.86	-32.25	12.09	23.19	-43.35	-25.00	-18.35	H
5069.65	-35.42	12.72	15.86	-38.56	-25.00	-13.56	V
7604.68	-33.95	11.46	19.28	-41.77	-25.00	-16.77	V
10139.86	-32.70	12.09	23.19	-43.80	-25.00	-18.80	V
LTE Band 7 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5133.53	-34.38	12.76	15.86	-37.48	-25.00	-12.48	H
7701.42	-34.32	11.45	19.28	-42.15	-25.00	-17.15	H
10268.07	-32.62	12.28	23.19	-43.53	-25.00	-18.53	H
5133.53	-35.30	12.76	15.86	-38.40	-25.00	-13.40	V
7701.42	-34.50	11.45	19.28	-42.33	-25.00	-17.33	V
10268.07	-31.98	12.28	23.19	-42.89	-25.00	-17.89	V



LTE Band 7 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5010.40	-34.72	12.66	15.86	-37.92	-25.00	-12.92	H
7515.31	-35.40	11.46	19.28	-43.22	-25.00	-18.22	H
10020.27	-32.83	12.79	23.19	-43.23	-25.00	-18.23	H
5010.40	-34.88	12.66	15.86	-38.08	-25.00	-13.08	V
7515.31	-34.80	11.46	19.28	-42.62	-25.00	-17.62	V
10020.27	-31.75	12.79	23.19	-42.15	-25.00	-17.15	V
LTE Band 7 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5070.04	-34.89	12.72	15.86	-38.03	-25.00	-13.03	H
7604.86	-34.14	11.46	19.28	-41.96	-25.00	-16.96	H
10139.84	-32.96	12.09	23.19	-44.06	-25.00	-19.06	H
5070.04	-34.55	12.72	15.86	-37.69	-25.00	-12.69	V
7604.86	-34.08	11.46	19.28	-41.90	-25.00	-16.90	V
10139.84	-32.33	12.09	23.19	-43.43	-25.00	-18.43	V
LTE Band 7 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5129.29	-33.49	12.76	15.86	-36.59	-25.00	-11.59	H
7693.89	-35.04	11.45	19.28	-42.87	-25.00	-17.87	H
10258.74	-32.64	12.28	23.19	-43.55	-25.00	-18.55	H
5129.29	-34.72	12.76	15.86	-37.82	-25.00	-12.82	V
7693.89	-33.78	11.45	19.28	-41.61	-25.00	-16.61	V
10258.74	-32.80	12.28	23.19	-43.71	-25.00	-18.71	V



LTE Band 7 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5015.70	-33.55	12.66	15.86	-36.75	-25.00	-11.75	H
7524.05	-35.12	11.46	19.28	-42.94	-25.00	-17.94	H
10031.97	-32.64	12.79	23.19	-43.04	-25.00	-18.04	H
5015.70	-34.57	12.66	15.86	-37.77	-25.00	-12.77	V
7524.05	-35.17	11.46	19.28	-42.99	-25.00	-17.99	V
10031.97	-32.84	12.79	23.19	-43.24	-25.00	-18.24	V
LTE Band 7 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5069.85	-33.78	12.72	15.86	-36.92	-25.00	-11.92	H
7605.00	-35.09	11.46	19.28	-42.91	-25.00	-17.91	H
10139.89	-32.20	12.09	23.19	-43.30	-25.00	-18.30	H
5069.85	-35.45	12.72	15.86	-38.59	-25.00	-13.59	V
7605.00	-34.89	11.46	19.28	-42.71	-25.00	-17.71	V
10139.89	-32.21	12.09	23.19	-43.31	-25.00	-18.31	V
LTE Band 7 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5123.24	-34.31	12.76	15.86	-37.41	-25.00	-12.41	H
7523.91	-34.79	11.45	19.28	-42.62	-25.00	-17.62	H
10032.12	-33.05	12.28	23.19	-43.96	-25.00	-18.96	H
5123.24	-34.67	12.76	15.86	-37.77	-25.00	-12.77	V
7523.91	-34.00	11.45	19.28	-41.83	-25.00	-16.83	V
10032.12	-32.13	12.28	23.19	-43.04	-25.00	-18.04	V



LTE Band 7 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5020.85	-33.93	12.66	15.86	-37.13	-25.00	-12.13	H
7531.25	-35.03	11.46	19.28	-42.85	-25.00	-17.85	H
10258.68	-32.24	12.79	23.19	-42.64	-25.00	-17.64	H
5020.85	-35.89	12.66	15.86	-39.09	-25.00	-14.09	V
7531.25	-34.80	11.46	19.28	-42.62	-25.00	-17.62	V
10258.68	-33.20	12.79	23.19	-43.60	-25.00	-18.60	V
LTE Band 7 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5069.94	-34.20	12.72	15.86	-37.34	-25.00	-12.34	H
7604.68	-35.06	11.46	19.28	-42.88	-25.00	-17.88	H
10140.00	-32.63	12.09	23.19	-43.73	-25.00	-18.73	H
5069.94	-34.75	12.72	15.86	-37.89	-25.00	-12.89	V
7604.68	-34.41	11.46	19.28	-42.23	-25.00	-17.23	V
10140.00	-32.02	12.09	23.19	-43.12	-25.00	-18.12	V
LTE Band 7 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5118.96	-33.48	12.76	15.86	-36.58	-25.00	-11.58	H
7678.13	-35.00	11.45	19.28	-42.83	-25.00	-17.83	H
10237.84	-32.47	12.28	23.19	-43.38	-25.00	-18.38	H
5118.96	-35.45	12.76	15.86	-38.55	-25.00	-13.55	V
7678.13	-34.35	11.45	19.28	-42.18	-25.00	-17.18	V
10237.84	-32.82	12.28	23.19	-43.73	-25.00	-18.73	V



LTE Band 12 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1399.31	-34.91	8.17	9.34	-36.08	-13.00	-23.08	H
2098.82	-35.14	9.53	10.42	-36.03	-13.00	-23.03	H
2798.42	-32.81	11.27	11.12	-32.66	-13.00	-19.66	H
1399.31	-35.78	8.17	9.34	-36.95	-13.00	-23.95	V
2098.82	-33.76	9.53	10.42	-34.65	-13.00	-21.65	V
2798.42	-32.50	11.27	11.12	-32.35	-13.00	-19.35	V
LTE Band 12 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1414.55	-33.56	8.17	9.34	-34.73	-13.00	-21.73	H
2122.16	-34.39	9.53	10.42	-35.28	-13.00	-22.28	H
2829.64	-33.44	11.27	11.12	-33.29	-13.00	-20.29	H
1414.55	-35.94	8.17	9.34	-37.11	-13.00	-24.11	V
2122.16	-33.93	9.53	10.42	-34.82	-13.00	-21.82	V
2829.64	-32.69	11.27	11.12	-32.54	-13.00	-19.54	V
LTE Band 12 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1430.57	-34.04	8.17	9.34	-35.21	-13.00	-22.21	H
2145.44	-35.33	9.53	10.42	-36.22	-13.00	-23.22	H
2861.04	-32.55	11.27	11.12	-32.40	-13.00	-19.40	H
1430.57	-35.57	8.17	9.34	-36.74	-13.00	-23.74	V
2145.44	-34.89	9.53	10.42	-35.78	-13.00	-22.78	V
2861.04	-31.80	11.27	11.12	-31.65	-13.00	-18.65	V



LTE Band 12 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1400.57	-34.39	8.17	9.34	-35.56	-13.00	-22.56	H
2101.11	-35.14	9.53	10.42	-36.03	-13.00	-23.03	H
2801.86	-33.56	11.27	11.12	-33.41	-13.00	-20.41	H
1400.57	-35.61	8.17	9.34	-36.78	-13.00	-23.78	V
2101.11	-35.24	9.53	10.42	-36.13	-13.00	-23.13	V
2801.86	-32.84	11.27	11.12	-32.69	-13.00	-19.69	V
LTE Band 12 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1414.58	-34.27	8.17	9.34	-35.44	-13.00	-22.44	H
2122.28	-35.45	9.53	10.42	-36.34	-13.00	-23.34	H
2829.85	-33.41	11.27	11.12	-33.26	-13.00	-20.26	H
1414.58	-35.40	8.17	9.34	-36.57	-13.00	-23.57	V
2122.28	-33.98	9.53	10.42	-34.87	-13.00	-21.87	V
2829.85	-31.98	11.27	11.12	-31.83	-13.00	-18.83	V
LTE Band 12 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1428.81	-33.57	8.17	9.34	-34.74	-13.00	-21.74	H
2143.38	-34.82	9.53	10.42	-35.71	-13.00	-22.71	H
2857.79	-32.24	11.27	11.12	-32.09	-13.00	-19.09	H
1428.81	-35.42	8.17	9.34	-36.59	-13.00	-23.59	V
2143.38	-34.03	9.53	10.42	-34.92	-13.00	-21.92	V
2857.79	-31.74	11.27	11.12	-31.59	-13.00	-18.59	V



LTE Band 12 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1402.55	-34.49	8.17	9.34	-35.66	-13.00	-22.66	H
2104.37	-35.44	9.53	10.42	-36.33	-13.00	-23.33	H
2805.68	-32.20	11.27	11.12	-32.05	-13.00	-19.05	H
1402.55	-34.98	8.17	9.34	-36.15	-13.00	-23.15	V
2104.37	-34.04	9.53	10.42	-34.93	-13.00	-21.93	V
2805.68	-32.79	11.27	11.12	-32.64	-13.00	-19.64	V
LTE Band 12 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1414.86	-33.60	8.17	9.34	-34.77	-13.00	-21.77	H
2122.33	-35.46	9.53	10.42	-36.35	-13.00	-23.35	H
2829.71	-33.51	11.27	11.12	-33.36	-13.00	-20.36	H
1414.86	-35.84	8.17	9.34	-37.01	-13.00	-24.01	V
2122.33	-34.17	9.53	10.42	-35.06	-13.00	-22.06	V
2829.71	-31.86	11.27	11.12	-31.71	-13.00	-18.71	V
LTE Band 12 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1426.84	-34.71	8.17	9.34	-35.88	-13.00	-22.88	H
2140.08	-35.23	9.53	10.42	-36.12	-13.00	-23.12	H
2853.98	-32.87	11.27	11.12	-32.72	-13.00	-19.72	H
1426.84	-35.07	8.17	9.34	-36.24	-13.00	-23.24	V
2140.08	-34.94	9.53	10.42	-35.83	-13.00	-22.83	V
2853.98	-32.48	11.27	11.12	-32.33	-13.00	-19.33	V



LTE Band 12 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1407.89	-34.28	8.17	9.34	-35.45	-13.00	-22.45	H
2111.67	-34.03	9.53	10.42	-34.92	-13.00	-21.92	H
2815.74	-32.64	11.27	11.12	-32.49	-13.00	-19.49	H
1407.89	-35.99	8.17	9.34	-37.16	-13.00	-24.16	V
2111.67	-35.13	9.53	10.42	-36.02	-13.00	-23.02	V
2815.74	-31.72	11.27	11.12	-31.57	-13.00	-18.57	V
LTE Band 12 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1414.82	-34.60	8.17	9.34	-35.77	-13.00	-22.77	H
2122.22	-34.91	9.53	10.42	-35.80	-13.00	-22.80	H
2829.93	-33.17	11.27	11.12	-33.02	-13.00	-20.02	H
1414.82	-34.91	8.17	9.34	-36.08	-13.00	-23.08	V
2122.22	-34.48	9.53	10.42	-35.37	-13.00	-22.37	V
2829.93	-33.19	11.27	11.12	-33.04	-13.00	-20.04	V
LTE Band 12 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1421.84	-34.17	8.17	9.34	-35.34	-13.00	-22.34	H
2132.80	-34.94	9.53	10.42	-35.83	-13.00	-22.83	H
2843.95	-32.77	11.27	11.12	-32.62	-13.00	-19.62	H
1421.84	-34.57	8.17	9.34	-35.74	-13.00	-22.74	V
2132.80	-33.98	9.53	10.42	-34.87	-13.00	-21.87	V
2843.95	-33.10	11.27	11.12	-32.95	-13.00	-19.95	V



LTE Band 17 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1413.03	-34.67	8.17	9.34	-35.84	-13.00	-22.84	H
2120.40	-34.05	9.53	10.42	-34.94	-13.00	-21.94	H
2826.64	-32.38	11.27	11.12	-32.23	-13.00	-19.23	H
1413.03	-34.93	8.17	9.34	-36.10	-13.00	-23.10	V
2120.40	-34.79	9.53	10.42	-35.68	-13.00	-22.68	V
2826.64	-33.20	11.27	11.12	-33.05	-13.00	-20.05	V
LTE Band 17 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1419.79	-34.23	8.17	9.34	-35.40	-13.00	-22.40	H
2129.84	-34.00	9.53	10.42	-34.89	-13.00	-21.89	H
2840.11	-32.34	11.27	11.12	-32.19	-13.00	-19.19	H
1419.79	-34.78	8.17	9.34	-35.95	-13.00	-22.95	V
2129.84	-34.24	9.53	10.42	-35.13	-13.00	-22.13	V
2840.11	-32.55	11.27	11.12	-32.40	-13.00	-19.40	V
LTE Band 17 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1426.39	-33.44	8.17	9.34	-34.61	-13.00	-21.61	H
2139.40	-34.69	9.53	10.42	-35.58	-13.00	-22.58	H
2852.59	-33.64	11.27	11.12	-33.49	-13.00	-20.49	H
1426.39	-34.56	8.17	9.34	-35.73	-13.00	-22.73	V
2139.40	-34.38	9.53	10.42	-35.27	-13.00	-22.27	V
2852.59	-33.15	11.27	11.12	-33.00	-13.00	-20.00	V



LTE Band 17 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1418.48	-34.03	8.17	9.34	-35.20	-13.00	-22.20	H
2127.41	-34.62	9.53	10.42	-35.51	-13.00	-22.51	H
2836.70	-33.06	11.27	11.12	-32.91	-13.00	-19.91	H
1418.48	-35.67	8.17	9.34	-36.84	-13.00	-23.84	V
2127.41	-34.60	9.53	10.42	-35.49	-13.00	-22.49	V
2836.70	-32.46	11.27	11.12	-32.31	-13.00	-19.31	V
LTE Band 17 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1420.23	-34.00	8.17	9.34	-35.17	-13.00	-22.17	H
2130.14	-34.12	9.53	10.42	-35.01	-13.00	-22.01	H
2840.03	-33.11	11.27	11.12	-32.96	-13.00	-19.96	H
1420.23	-35.21	8.17	9.34	-36.38	-13.00	-23.38	V
2130.14	-35.07	9.53	10.42	-35.96	-13.00	-22.96	V
2840.03	-32.37	11.27	11.12	-32.22	-13.00	-19.22	V
LTE Band 17 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1421.41	-34.33	8.17	9.34	-35.50	-13.00	-22.50	H
2132.06	-34.94	9.53	10.42	-35.83	-13.00	-22.83	H
2842.65	-32.73	11.27	11.12	-32.58	-13.00	-19.58	H
1421.41	-34.95	8.17	9.34	-36.12	-13.00	-23.12	V
2132.06	-34.08	9.53	10.42	-34.97	-13.00	-21.97	V
2842.65	-32.45	11.27	11.12	-32.30	-13.00	-19.30	V



LTE Band 25 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3701.48	-34.94	12.60	12.93	-35.27	-13.00	-22.27	H
5551.68	-34.07	13.10	17.11	-38.08	-13.00	-25.08	H
7402.56	-32.51	11.50	22.20	-43.21	-13.00	-30.21	H
3701.48	-35.31	12.60	12.93	-35.64	-13.00	-22.64	V
5551.68	-34.50	13.10	17.11	-38.51	-13.00	-25.51	V
7402.56	-32.93	11.50	22.20	-43.63	-13.00	-30.63	V
LTE Band 25 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3765.24	-34.49	12.60	12.93	-34.82	-13.00	-21.82	H
5647.11	-34.04	13.10	17.11	-38.05	-13.00	-25.05	H
7529.92	-33.33	11.50	22.20	-44.03	-13.00	-31.03	H
3765.24	-34.54	12.60	12.93	-34.87	-13.00	-21.87	V
5647.11	-35.00	13.10	17.11	-39.01	-13.00	-26.01	V
7529.92	-33.10	11.50	22.20	-43.80	-13.00	-30.80	V
LTE Band 25 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3828.45	-34.51	12.60	12.93	-34.84	-13.00	-21.84	H
5727.58	-34.77	13.10	17.11	-38.78	-13.00	-25.78	H
7656.76	-32.62	11.50	22.20	-43.32	-13.00	-30.32	H
3828.45	-35.99	12.60	12.93	-36.32	-13.00	-23.32	V
5727.58	-34.83	13.10	17.11	-38.84	-13.00	-25.84	V
7656.76	-31.99	11.50	22.20	-42.69	-13.00	-29.69	V



LTE Band 25 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3703.29	-33.97	12.60	12.93	-34.30	-13.00	-21.30	H
5554.30	-34.32	13.10	17.11	-38.33	-13.00	-25.33	H
7405.95	-32.49	11.50	22.20	-43.19	-13.00	-30.19	H
3703.29	-35.45	12.60	12.93	-35.78	-13.00	-22.78	V
5554.30	-35.19	13.10	17.11	-39.20	-13.00	-26.20	V
7405.95	-33.13	11.50	22.20	-43.83	-13.00	-30.83	V
LTE Band 25 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3765.16	-33.78	12.60	12.93	-34.11	-13.00	-21.11	H
5647.15	-34.64	13.10	17.11	-38.65	-13.00	-25.65	H
7530.23	-32.44	11.50	22.20	-43.14	-13.00	-30.14	H
3765.16	-35.53	12.60	12.93	-35.86	-13.00	-22.86	V
5647.15	-35.10	13.10	17.11	-39.11	-13.00	-26.11	V
7530.23	-33.20	11.50	22.20	-43.90	-13.00	-30.90	V
LTE Band 25 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3827.16	-33.89	12.60	12.93	-34.22	-13.00	-21.22	H
5739.75	-34.53	13.10	17.11	-38.54	-13.00	-25.54	H
7654.23	-32.84	11.50	22.20	-43.54	-13.00	-30.54	H
3827.16	-35.05	12.60	12.93	-35.38	-13.00	-22.38	V
5739.75	-34.78	13.10	17.11	-38.79	-13.00	-25.79	V
7654.23	-32.97	11.50	22.20	-43.67	-13.00	-30.67	V



LTE Band 25 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3705.00	-34.42	12.60	12.93	-34.75	-13.00	-21.75	H
5557.21	-34.86	13.10	17.11	-38.87	-13.00	-25.87	H
7410.21	-32.44	11.50	22.20	-43.14	-13.00	-30.14	H
3705.00	-34.69	12.60	12.93	-35.02	-13.00	-22.02	V
5557.21	-34.89	13.10	17.11	-38.90	-13.00	-25.90	V
7410.21	-31.93	11.50	22.20	-42.63	-13.00	-29.63	V
LTE Band 25 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3765.15	-33.74	12.60	12.93	-34.07	-13.00	-21.07	H
5647.05	-34.68	13.10	17.11	-38.69	-13.00	-25.69	H
7530.06	-32.18	11.50	22.20	-42.88	-13.00	-29.88	H
3765.15	-35.35	12.60	12.93	-35.68	-13.00	-22.68	V
5647.05	-35.13	13.10	17.11	-39.14	-13.00	-26.14	V
7530.06	-31.80	11.50	22.20	-42.50	-13.00	-29.50	V
LTE Band 25 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3825.19	-34.93	12.60	12.93	-35.26	-13.00	-22.26	H
5737.07	-34.64	13.10	17.11	-38.65	-13.00	-25.65	H
7650.58	-33.10	11.50	22.20	-43.80	-13.00	-30.80	H
3825.19	-35.46	12.60	12.93	-35.79	-13.00	-22.79	V
5737.07	-33.75	13.10	17.11	-37.76	-13.00	-24.76	V
7650.58	-31.97	11.50	22.20	-42.67	-13.00	-29.67	V



LTE Band 25 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3710.46	-34.43	12.60	12.93	-34.76	-13.00	-21.76	H
5565.23	-34.76	13.10	17.11	-38.77	-13.00	-25.77	H
7420.18	-32.20	11.50	22.20	-42.90	-13.00	-29.90	H
3710.46	-35.70	12.60	12.93	-36.03	-13.00	-23.03	V
5565.23	-33.84	13.10	17.11	-37.85	-13.00	-24.85	V
7420.18	-32.94	11.50	22.20	-43.64	-13.00	-30.64	V
LTE Band 25 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3764.84	-34.38	12.60	12.93	-34.71	-13.00	-21.71	H
5647.52	-34.89	13.10	17.11	-38.90	-13.00	-25.90	H
7529.90	-32.64	11.50	22.20	-43.34	-13.00	-30.34	H
3764.84	-35.05	12.60	12.93	-35.38	-13.00	-22.38	V
5647.52	-34.75	13.10	17.11	-38.76	-13.00	-25.76	V
7529.90	-32.90	11.50	22.20	-43.60	-13.00	-30.60	V
LTE Band 25 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3820.27	-34.53	12.60	12.93	-34.86	-13.00	-21.86	H
5730.05	-34.30	13.10	17.11	-38.31	-13.00	-25.31	H
7640.06	-32.99	11.50	22.20	-43.69	-13.00	-30.69	H
3820.27	-34.72	12.60	12.93	-35.05	-13.00	-22.05	V
5730.05	-33.98	13.10	17.11	-37.99	-13.00	-24.99	V
7640.06	-32.26	11.50	22.20	-42.96	-13.00	-29.96	V



LTE Band 25 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3714.87	-34.16	12.60	12.93	-34.49	-13.00	-21.49	H
5572.25	-35.44	13.10	17.11	-39.45	-13.00	-26.45	H
7430.43	-32.72	11.50	22.20	-43.42	-13.00	-30.42	H
3714.87	-34.64	12.60	12.93	-34.97	-13.00	-21.97	V
5572.25	-34.26	13.10	17.11	-38.27	-13.00	-25.27	V
7430.43	-32.77	11.50	22.20	-43.47	-13.00	-30.47	V
LTE Band 25 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3764.88	-34.22	12.60	12.93	-34.55	-13.00	-21.55	H
5647.37	-35.06	13.10	17.11	-39.07	-13.00	-26.07	H
7430.21	-33.59	11.50	22.20	-44.29	-13.00	-31.29	H
3764.88	-34.96	12.60	12.93	-35.29	-13.00	-22.29	V
5647.37	-35.21	13.10	17.11	-39.22	-13.00	-26.22	V
7430.21	-32.97	11.50	22.20	-43.67	-13.00	-30.67	V
LTE Band 25 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3815.65	-34.92	12.60	12.93	-35.25	-13.00	-22.25	H
5722.28	-35.25	13.10	17.11	-39.26	-13.00	-26.26	H
7630.17	-32.90	11.50	22.20	-43.60	-13.00	-30.60	H
3815.65	-35.83	12.60	12.93	-36.16	-13.00	-23.16	V
5722.28	-34.75	13.10	17.11	-38.76	-13.00	-25.76	V
7630.17	-31.90	11.50	22.20	-42.60	-13.00	-29.60	V



LTE Band 25 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3720.09	-33.62	12.60	12.93	-33.95	-13.00	-20.95	H
5580.51	-35.07	13.10	17.11	-39.08	-13.00	-26.08	H
7440.04	-33.16	11.50	22.20	-43.86	-13.00	-30.86	H
3720.09	-35.33	12.60	12.93	-35.66	-13.00	-22.66	V
5580.51	-35.16	13.10	17.11	-39.17	-13.00	-26.17	V
7440.04	-32.04	11.50	22.20	-42.74	-13.00	-29.74	V
LTE Band 25 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3764.88	-33.90	12.60	12.93	-34.23	-13.00	-21.23	H
5647.11	-34.68	13.10	17.11	-38.69	-13.00	-25.69	H
7530.06	-33.61	11.50	22.20	-44.31	-13.00	-31.31	H
3764.88	-35.62	12.60	12.93	-35.95	-13.00	-22.95	V
5647.11	-34.81	13.10	17.11	-38.82	-13.00	-25.82	V
7530.06	-32.61	11.50	22.20	-43.31	-13.00	-30.31	V
LTE Band 25 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3810.15	-34.78	12.60	12.93	-35.11	-13.00	-22.11	H
5715.32	-34.90	13.10	17.11	-38.91	-13.00	-25.91	H
7619.81	-32.98	11.50	22.20	-43.68	-13.00	-30.68	H
3810.15	-34.60	12.60	12.93	-34.93	-13.00	-21.93	V
5715.32	-34.34	13.10	17.11	-38.35	-13.00	-25.35	V
7619.81	-32.75	11.50	22.20	-43.45	-13.00	-30.45	V



LTE Band 26(Part 22) / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest

Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1649.19	-33.85	9.56	9.72	-34.01	-13.00	-21.01	H
2473.57	-34.06	10.50	10.86	-34.42	-13.00	-21.42	H
3298.64	-32.81	12.78	11.57	-31.60	-13.00	-18.60	H
1649.19	-35.15	9.56	9.72	-35.31	-13.00	-22.31	V
2473.57	-35.13	10.50	10.86	-35.49	-13.00	-22.49	V
3298.64	-33.18	12.78	11.57	-31.97	-13.00	-18.97	V

LTE Band 26(Part 22) / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle

Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1672.99	-34.53	9.56	9.72	-34.69	-13.00	-21.69	H
2509.11	-34.78	10.50	10.86	-35.14	-13.00	-22.14	H
3346.27	-33.55	12.78	11.57	-32.34	-13.00	-19.34	H
1672.99	-35.82	9.56	9.72	-35.98	-13.00	-22.98	V
2509.11	-34.32	10.50	10.86	-34.68	-13.00	-21.68	V
3346.27	-32.93	12.78	11.57	-31.72	-13.00	-18.72	V

LTE Band 26(Part 22) / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest

Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1696.45	-33.68	9.56	9.72	-33.84	-13.00	-20.84	H
2544.75	-34.85	10.50	10.86	-35.21	-13.00	-22.21	H
3393.11	-33.11	12.78	11.57	-31.90	-13.00	-18.90	H
1696.45	-36.00	9.56	9.72	-36.16	-13.00	-23.16	V
2544.75	-35.07	10.50	10.86	-35.43	-13.00	-22.43	V
3393.11	-32.60	12.78	11.57	-31.39	-13.00	-18.39	V



LTE Band 26(Part 22) / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1651.18	-33.94	9.56	9.72	-34.10	-13.00	-21.10	H
2476.20	-35.37	10.50	10.86	-35.73	-13.00	-22.73	H
3301.95	-33.33	12.78	11.57	-32.12	-13.00	-19.12	H
1651.18	-34.61	9.56	9.72	-34.77	-13.00	-21.77	V
2476.20	-34.59	10.50	10.86	-34.95	-13.00	-21.95	V
3301.95	-33.11	12.78	11.57	-31.90	-13.00	-18.90	V
LTE Band 26(Part 22) / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1673.19	-34.47	9.56	9.72	-34.63	-13.00	-21.63	H
2509.27	-34.84	10.50	10.86	-35.20	-13.00	-22.20	H
3345.94	-33.34	12.78	11.57	-32.13	-13.00	-19.13	H
1673.19	-35.13	9.56	9.72	-35.29	-13.00	-22.29	V
2509.27	-33.77	10.50	10.86	-34.13	-13.00	-21.13	V
3345.94	-32.15	12.78	11.57	-30.94	-13.00	-17.94	V
LTE Band 26(Part 22) / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1695.37	-34.06	9.56	9.72	-34.22	-13.00	-21.22	H
2542.45	-34.94	10.50	10.86	-35.30	-13.00	-22.30	H
3389.96	-32.72	12.78	11.57	-31.51	-13.00	-18.51	H
1695.37	-35.31	9.56	9.72	-35.47	-13.00	-22.47	V
2542.45	-35.19	10.50	10.86	-35.55	-13.00	-22.55	V
3389.96	-32.62	12.78	11.57	-31.41	-13.00	-18.41	V



LTE Band 26(Part 22) / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1652.62	-33.92	9.56	9.72	-34.08	-13.00	-21.08	H
2479.41	-35.42	10.50	10.86	-35.78	-13.00	-22.78	H
3306.95	-33.35	12.78	11.57	-32.14	-13.00	-19.14	H
1652.62	-35.10	9.56	9.72	-35.26	-13.00	-22.26	V
2479.41	-34.53	10.50	10.86	-34.89	-13.00	-21.89	V
3306.95	-32.50	12.78	11.57	-31.29	-13.00	-18.29	V
LTE Band 26(Part 22) / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1673.11	-33.66	9.56	9.72	-33.82	-13.00	-20.82	H
2509.07	-34.28	10.50	10.86	-34.64	-13.00	-21.64	H
3345.89	-32.81	12.78	11.57	-31.60	-13.00	-18.60	H
1673.11	-35.67	9.56	9.72	-35.83	-13.00	-22.83	V
2509.07	-34.88	10.50	10.86	-35.24	-13.00	-22.24	V
3345.89	-32.05	12.78	11.57	-30.84	-13.00	-17.84	V
LTE Band 26(Part 22) / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1693.74	-34.52	9.56	9.72	-34.68	-13.00	-21.68	H
2539.02	-35.26	10.50	10.86	-35.62	-13.00	-22.62	H
3386.20	-32.39	12.78	11.57	-31.18	-13.00	-18.18	H
1693.74	-35.18	9.56	9.72	-35.34	-13.00	-22.34	V
2539.02	-34.60	10.50	10.86	-34.96	-13.00	-21.96	V
3386.20	-33.11	12.78	11.57	-31.90	-13.00	-18.90	V



LTE Band 26(Part 22) / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1657.89	-34.64	9.56	9.72	-34.80	-13.00	-21.80	H
2486.39	-34.23	10.50	10.86	-34.59	-13.00	-21.59	H
3315.83	-32.57	12.78	11.57	-31.36	-13.00	-18.36	H
1657.89	-35.48	9.56	9.72	-35.64	-13.00	-22.64	V
2486.39	-34.71	10.50	10.86	-35.07	-13.00	-22.07	V
3315.83	-32.42	12.78	11.57	-31.21	-13.00	-18.21	V
LTE Band 26(Part 22) / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1672.98	-34.81	9.56	9.72	-34.97	-13.00	-21.97	H
2509.19	-34.59	10.50	10.86	-34.95	-13.00	-21.95	H
3346.05	-32.91	12.78	11.57	-31.70	-13.00	-18.70	H
1672.98	-35.52	9.56	9.72	-35.68	-13.00	-22.68	V
2509.19	-35.07	10.50	10.86	-35.43	-13.00	-22.43	V
3346.05	-32.34	12.78	11.57	-31.13	-13.00	-18.13	V
LTE Band 26(Part 22) / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1688.65	-34.85	9.56	9.72	-35.01	-13.00	-22.01	H
2532.31	-35.20	10.50	10.86	-35.56	-13.00	-22.56	H
3376.24	-33.39	12.78	11.57	-32.18	-13.00	-19.18	H
1688.65	-35.38	9.56	9.72	-35.54	-13.00	-22.54	V
2532.31	-35.07	10.50	10.86	-35.43	-13.00	-22.43	V
3376.24	-32.10	12.78	11.57	-30.89	-13.00	-17.89	V



LTE Band 26(Part 22) / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1663.10	-33.56	9.56	9.72	-33.72	-13.00	-20.72	H
2494.60	-34.19	10.50	10.86	-34.55	-13.00	-21.55	H
3325.50	-33.37	12.78	11.57	-32.16	-13.00	-19.16	H
1663.10	-35.47	9.56	9.72	-35.63	-13.00	-22.63	V
2494.60	-33.97	10.50	10.86	-34.33	-13.00	-21.33	V
3325.50	-32.39	12.78	11.57	-31.18	-13.00	-18.18	V
LTE Band 26(Part 22) / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1673.08	-33.64	9.56	9.72	-33.80	-13.00	-20.80	H
2509.04	-35.00	10.50	10.86	-35.36	-13.00	-22.36	H
3346.26	-33.58	12.78	11.57	-32.37	-13.00	-19.37	H
1673.08	-34.58	9.56	9.72	-34.74	-13.00	-21.74	V
2509.04	-34.77	10.50	10.86	-35.13	-13.00	-22.13	V
3346.26	-33.18	12.78	11.57	-31.97	-13.00	-18.97	V
LTE Band 26(Part 22) / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1683.65	-33.52	9.56	9.72	-33.68	-13.00	-20.68	H
2524.10	-35.26	10.50	10.86	-35.62	-13.00	-22.62	H
3366.43	-32.40	12.78	11.57	-31.19	-13.00	-18.19	H
1683.65	-35.08	9.56	9.72	-35.24	-13.00	-22.24	V
2524.10	-34.57	10.50	10.86	-34.93	-13.00	-21.93	V
3366.43	-33.15	12.78	11.57	-31.94	-13.00	-18.94	V



LTE Band 26(Part 90) / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest

Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1629.26	-34.58	9.56	9.72	-34.74	-13.00	-21.74	H
2443.80	-35.05	10.50	10.86	-35.41	-13.00	-22.41	H
3258.56	-32.48	12.78	11.57	-31.27	-13.00	-18.27	H
1629.26	-34.59	9.56	9.72	-34.75	-13.00	-21.75	V
2443.80	-34.05	10.50	10.86	-34.41	-13.00	-21.41	V
3258.56	-32.35	12.78	11.57	-31.14	-13.00	-18.14	V

LTE Band 26(Part 90) / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle

Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1637.88	-34.61	9.56	9.72	-34.77	-13.00	-21.77	H
2457.07	-34.36	10.50	10.86	-34.72	-13.00	-21.72	H
3275.81	-32.29	12.78	11.57	-31.08	-13.00	-18.08	H
1637.88	-35.91	9.56	9.72	-36.07	-13.00	-23.07	V
2457.07	-33.97	10.50	10.86	-34.33	-13.00	-21.33	V
3275.81	-31.80	12.78	11.57	-30.59	-13.00	-17.59	V

LTE Band 26(Part 90) / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest

Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1646.28	-34.42	9.56	9.72	-34.58	-13.00	-21.58	H
2456.85	-34.13	10.50	10.86	-34.49	-13.00	-21.49	H
3258.16	-32.85	12.78	11.57	-31.64	-13.00	-18.64	H
1646.28	-35.53	9.56	9.72	-35.69	-13.00	-22.69	V
2456.85	-35.05	10.50	10.86	-35.41	-13.00	-22.41	V
3258.16	-32.29	12.78	11.57	-31.08	-13.00	-18.08	V



LTE Band 26(Part 90) / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1631.35	-33.91	9.56	9.72	-34.07	-13.00	-21.07	H
2446.48	-34.66	10.50	10.86	-35.02	-13.00	-22.02	H
3261.58	-32.36	12.78	11.57	-31.15	-13.00	-18.15	H
1631.35	-34.56	9.56	9.72	-34.72	-13.00	-21.72	V
2446.48	-35.16	10.50	10.86	-35.52	-13.00	-22.52	V
3261.58	-32.68	12.78	11.57	-31.47	-13.00	-18.47	V
LTE Band 26(Part 90) / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1637.98	-33.93	9.56	9.72	-34.09	-13.00	-21.09	H
2456.81	-34.18	10.50	10.86	-34.54	-13.00	-21.54	H
3275.85	-33.61	12.78	11.57	-32.40	-13.00	-19.40	H
1637.98	-34.67	9.56	9.72	-34.83	-13.00	-21.83	V
2456.81	-34.82	10.50	10.86	-35.18	-13.00	-22.18	V
3275.85	-33.01	12.78	11.57	-31.80	-13.00	-18.80	V
LTE Band 26(Part 90) / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1644.65	-34.22	9.56	9.72	-34.38	-13.00	-21.38	H
2467.30	-34.60	10.50	10.86	-34.96	-13.00	-21.96	H
3276.21	-32.78	12.78	11.57	-31.57	-13.00	-18.57	H
1644.65	-35.88	9.56	9.72	-36.04	-13.00	-23.04	V
2467.30	-34.72	10.50	10.86	-35.08	-13.00	-22.08	V
3276.21	-31.95	12.78	11.57	-30.74	-13.00	-17.74	V



LTE Band 26(Part 90) / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1633.00	-34.69	9.56	9.72	-34.85	-13.00	-21.85	H
2449.35	-35.33	10.50	10.86	-35.69	-13.00	-22.69	H
3266.77	-33.21	12.78	11.57	-32.00	-13.00	-19.00	H
1633.00	-34.85	9.56	9.72	-35.01	-13.00	-22.01	V
2449.35	-35.20	10.50	10.86	-35.56	-13.00	-22.56	V
3266.77	-33.05	12.78	11.57	-31.84	-13.00	-18.84	V
LTE Band 26(Part 90) / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1637.79	-33.82	9.56	9.72	-33.98	-13.00	-20.98	H
2457.04	-35.34	10.50	10.86	-35.70	-13.00	-22.70	H
3275.99	-33.16	12.78	11.57	-31.95	-13.00	-18.95	H
1637.79	-35.80	9.56	9.72	-35.96	-13.00	-22.96	V
2457.04	-34.70	10.50	10.86	-35.06	-13.00	-22.06	V
3275.99	-32.54	12.78	11.57	-31.33	-13.00	-18.33	V
LTE Band 26(Part 90) / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1642.76	-34.13	9.56	9.72	-34.29	-13.00	-21.29	H
2464.22	-34.57	10.50	10.86	-34.93	-13.00	-21.93	H
3285.97	-32.26	12.78	11.57	-31.05	-13.00	-18.05	H
1642.76	-35.84	9.56	9.72	-36.00	-13.00	-23.00	V
2464.22	-34.61	10.50	10.86	-34.97	-13.00	-21.97	V
3285.97	-33.02	12.78	11.57	-31.81	-13.00	-18.81	V

LTE Band 26(Part 90) / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1638.07	-34.28	9.56	9.72	-34.44	-13.00	-21.44	H
2456.88	-35.15	10.50	10.86	-35.51	-13.00	-22.51	H
3275.81	-32.26	12.78	11.57	-31.05	-13.00	-18.05	H
1638.07	-35.17	9.56	9.72	-35.33	-13.00	-22.33	V
2456.88	-33.76	10.50	10.86	-34.12	-13.00	-21.12	V
3275.81	-32.67	12.78	11.57	-31.46	-13.00	-18.46	V



LTE Band 38 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5145.12	-34.34	12.66	15.86	-37.54	-25.00	-12.54	H
7717.36	-35.03	11.46	19.28	-42.85	-25.00	-17.85	H
10290.04	-32.89	12.79	23.19	-43.29	-25.00	-18.29	H
5144.87	-35.26	12.66	15.86	-38.46	-25.00	-13.46	V
7717.33	-34.40	11.46	19.28	-42.22	-25.00	-17.22	V
10289.98	-32.35	12.79	23.19	-42.75	-25.00	-17.75	V
LTE Band 38 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5189.96	-33.50	12.72	15.86	-36.64	-25.00	-11.64	H
7785.05	-34.55	11.46	19.28	-42.37	-25.00	-17.37	H
10379.90	-33.47	12.09	23.19	-44.57	-25.00	-19.57	H
5190.10	-34.85	12.72	15.86	-37.99	-25.00	-12.99	V
7785.31	-34.66	11.46	19.28	-42.48	-25.00	-17.48	V
10380.17	-32.03	12.09	23.19	-43.13	-25.00	-18.13	V
LTE Band 38 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5234.74	-33.90	12.76	15.86	-37.00	-25.00	-12.00	H
7852.42	-35.17	11.45	19.28	-43.00	-25.00	-18.00	H
10469.99	-33.50	12.28	23.19	-44.41	-25.00	-19.41	H
5234.75	-34.75	12.76	15.86	-37.85	-25.00	-12.85	V
7852.43	-34.96	11.45	19.28	-42.79	-25.00	-17.79	V
10469.89	-32.49	12.28	23.19	-43.40	-25.00	-18.40	V



LTE Band 38 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5149.88	-33.83	12.66	15.86	-37.03	-25.00	-12.03	H
7724.91	-35.35	11.46	19.28	-43.17	-25.00	-18.17	H
10300.15	-32.70	12.79	23.19	-43.10	-25.00	-18.10	H
5150.03	-34.78	12.66	15.86	-37.98	-25.00	-12.98	V
7724.67	-34.50	11.46	19.28	-42.32	-25.00	-17.32	V
10300.03	-32.05	12.79	23.19	-42.45	-25.00	-17.45	V
LTE Band 38 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5189.74	-33.48	12.72	15.86	-36.62	-25.00	-11.62	H
7784.78	-35.43	11.46	19.28	-43.25	-25.00	-18.25	H
10380.08	-32.66	12.09	23.19	-43.76	-25.00	-18.76	H
5189.88	-34.92	12.72	15.86	-38.06	-25.00	-13.06	V
7785.01	-35.19	11.46	19.28	-43.01	-25.00	-18.01	V
10380.09	-32.37	12.09	23.19	-43.47	-25.00	-18.47	V
LTE Band 38 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5230.24	-34.04	12.76	15.86	-37.14	-25.00	-12.14	H
7844.49	-34.12	11.45	19.28	-41.95	-25.00	-16.95	H
10459.90	-32.62	12.28	23.19	-43.53	-25.00	-18.53	H
5230.05	-35.84	12.76	15.86	-38.94	-25.00	-13.94	V
7844.76	-34.04	11.45	19.28	-41.87	-25.00	-16.87	V
10460.00	-32.44	12.28	23.19	-43.35	-25.00	-18.35	V



LTE Band 38 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5154.95	-33.51	12.66	15.86	-36.71	-25.00	-11.71	H
7732.35	-35.21	11.46	19.28	-43.03	-25.00	-18.03	H
10310.18	-33.18	12.79	23.19	-43.58	-25.00	-18.58	H
5154.95	-34.58	12.66	15.86	-37.78	-25.00	-12.78	V
7732.35	-35.22	11.46	19.28	-43.04	-25.00	-18.04	V
10310.18	-33.04	12.79	23.19	-43.44	-25.00	-18.44	V
LTE Band 38 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5189.89	-33.87	12.72	15.86	-37.01	-25.00	-12.01	H
7784.72	-34.88	11.46	19.28	-42.70	-25.00	-17.70	H
10379.83	-33.24	12.09	23.19	-44.34	-25.00	-19.34	H
5190.02	-34.86	12.72	15.86	-38.00	-25.00	-13.00	V
7784.79	-34.74	11.46	19.28	-42.56	-25.00	-17.56	V
10380.17	-31.93	12.09	23.19	-43.03	-25.00	-18.03	V
LTE Band 38 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5224.74	-33.99	12.76	15.86	-37.09	-25.00	-12.09	H
7838.39	-34.08	11.45	19.28	-41.91	-25.00	-16.91	H
10450.23	-32.69	12.28	23.19	-43.60	-25.00	-18.60	H
5224.74	-34.56	12.76	15.86	-37.66	-25.00	-12.66	V
7838.39	-34.06	11.45	19.28	-41.89	-25.00	-16.89	V
10450.23	-31.83	12.28	23.19	-42.74	-25.00	-17.74	V



LTE Band 38 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5160.13	-34.67	12.66	15.86	-37.87	-25.00	-12.87	H
7740.09	-34.79	11.46	19.28	-42.61	-25.00	-17.61	H
10319.90	-33.48	12.79	23.19	-43.88	-25.00	-18.88	H
5160.13	-36.01	12.66	15.86	-39.21	-25.00	-14.21	V
7740.09	-34.85	11.46	19.28	-42.67	-25.00	-17.67	V
10319.90	-32.53	12.79	23.19	-42.93	-25.00	-17.93	V
LTE Band 38 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5189.96	-33.70	12.72	15.86	-36.84	-25.00	-11.84	H
7784.80	-34.13	11.46	19.28	-41.95	-25.00	-16.95	H
10380.19	-33.04	12.09	23.19	-44.14	-25.00	-19.14	H
5190.15	-35.07	12.72	15.86	-38.21	-25.00	-13.21	V
7784.96	-35.13	11.46	19.28	-42.95	-25.00	-17.95	V
10380.15	-31.84	12.09	23.19	-42.94	-25.00	-17.94	V
LTE Band 38 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5220.09	-34.71	12.76	15.86	-37.81	-25.00	-12.81	H
7830.17	-34.08	11.45	19.28	-41.91	-25.00	-16.91	H
10440.27	-32.29	12.28	23.19	-43.20	-25.00	-18.20	H
5220.09	-35.17	12.76	15.86	-38.27	-25.00	-13.27	V
7830.17	-34.70	11.45	19.28	-42.53	-25.00	-17.53	V
10440.27	-32.89	12.28	23.19	-43.80	-25.00	-18.80	V



LTE Band 41 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5115.12	-34.15	12.66	15.86	-37.35	-25.00	-12.35	H
7672.73	-35.02	11.46	19.28	-42.84	-25.00	-17.84	H
10230.28	-33.61	12.79	23.19	-44.01	-25.00	-19.01	H
4996.87	-35.05	12.66	15.86	-38.25	-25.00	-13.25	V
7495.51	-35.19	11.46	19.28	-43.01	-25.00	-18.01	V
9994.18	-32.17	12.79	23.19	-42.57	-25.00	-17.57	V
LTE Band 41 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5209.80	-34.37	12.72	15.86	-37.51	-25.00	-12.51	H
7814.99	-35.17	11.46	19.28	-42.99	-25.00	-17.99	H
10420.27	-32.98	12.09	23.19	-44.08	-25.00	-19.08	H
5209.80	-35.46	12.72	15.86	-38.60	-25.00	-13.60	V
7814.99	-34.97	11.46	19.28	-42.79	-25.00	-17.79	V
10420.27	-31.76	12.09	23.19	-42.86	-25.00	-17.86	V
LTE Band 41 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5304.87	-33.54	12.76	15.86	-36.64	-25.00	-11.64	H
7957.40	-34.03	11.45	19.28	-41.86	-25.00	-16.86	H
10610.23	-33.56	12.28	23.19	-44.47	-25.00	-19.47	H
5304.87	-34.94	12.76	15.86	-38.04	-25.00	-13.04	V
7957.40	-34.94	11.45	19.28	-42.77	-25.00	-17.77	V
10610.23	-32.18	12.28	23.19	-43.09	-25.00	-18.09	V



LTE Band 41 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5119.86	-34.53	12.66	15.86	-37.73	-25.00	-12.73	H
7680.17	-34.73	11.46	19.28	-42.55	-25.00	-17.55	H
10239.89	-32.35	12.79	23.19	-42.75	-25.00	-17.75	H
5119.86	-35.25	12.66	15.86	-38.45	-25.00	-13.45	V
7680.17	-35.19	11.46	19.28	-43.01	-25.00	-18.01	V
10239.89	-32.40	12.79	23.19	-42.80	-25.00	-17.80	V
LTE Band 41 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5209.81	-33.80	12.72	15.86	-36.94	-25.00	-11.94	H
7814.93	-34.81	11.46	19.28	-42.63	-25.00	-17.63	H
10420.24	-33.16	12.09	23.19	-44.26	-25.00	-19.26	H
5209.81	-35.52	12.72	15.86	-38.66	-25.00	-13.66	V
7814.93	-34.40	11.46	19.28	-42.22	-25.00	-17.22	V
10420.24	-32.50	12.09	23.19	-43.60	-25.00	-18.60	V
LTE Band 41 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5300.14	-34.85	12.76	15.86	-37.95	-25.00	-12.95	H
7950.23	-35.25	11.45	19.28	-43.08	-25.00	-18.08	H
10599.84	-32.96	12.28	23.19	-43.87	-25.00	-18.87	H
5300.14	-35.14	12.76	15.86	-38.24	-25.00	-13.24	V
7950.23	-34.23	11.45	19.28	-42.06	-25.00	-17.06	V
10599.84	-31.73	12.28	23.19	-42.64	-25.00	-17.64	V



LTE Band 41 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5125.03	-33.83	12.66	15.86	-37.03	-25.00	-12.03	H
7687.57	-34.93	11.46	19.28	-42.75	-25.00	-17.75	H
10250.37	-32.54	12.79	23.19	-42.94	-25.00	-17.94	H
5125.03	-35.44	12.66	15.86	-38.64	-25.00	-13.64	V
7687.57	-35.19	11.46	19.28	-43.01	-25.00	-18.01	V
10250.37	-32.17	12.79	23.19	-42.57	-25.00	-17.57	V
LTE Band 41 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5210.22	-33.63	12.72	15.86	-36.77	-25.00	-11.77	H
7815.31	-34.03	11.46	19.28	-41.85	-25.00	-16.85	H
10419.90	-32.93	12.09	23.19	-44.03	-25.00	-19.03	H
5210.22	-35.72	12.72	15.86	-38.86	-25.00	-13.86	V
7815.31	-34.66	11.46	19.28	-42.48	-25.00	-17.48	V
10419.90	-32.73	12.09	23.19	-43.83	-25.00	-18.83	V
LTE Band 41 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5298.04	-34.28	12.76	15.86	-37.38	-25.00	-12.38	H
7942.46	-34.59	11.45	19.28	-42.42	-25.00	-17.42	H
10589.86	-32.49	12.28	23.19	-43.40	-25.00	-18.40	H
5298.04	-35.32	12.76	15.86	-38.42	-25.00	-13.42	V
7942.46	-34.94	11.45	19.28	-42.77	-25.00	-17.77	V
10589.86	-32.09	12.28	23.19	-43.00	-25.00	-18.00	V



LTE Band 41 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5130.22	-34.46	12.66	15.86	-37.66	-25.00	-12.66	H
7695.13	-34.16	11.46	19.28	-41.98	-25.00	-16.98	H
10260.17	-33.29	12.79	23.19	-43.69	-25.00	-18.69	H
5130.22	-35.30	12.66	15.86	-38.50	-25.00	-13.50	V
7695.13	-34.01	11.46	19.28	-41.83	-25.00	-16.83	V
10260.17	-32.16	12.79	23.19	-42.56	-25.00	-17.56	V
LTE Band 41 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5209.89	-34.40	12.72	15.86	-37.54	-25.00	-12.54	H
7814.93	-34.04	11.46	19.28	-41.86	-25.00	-16.86	H
10420.04	-32.95	12.09	23.19	-44.05	-25.00	-19.05	H
5209.89	-34.73	12.72	15.86	-37.87	-25.00	-12.87	V
7814.93	-35.01	11.46	19.28	-42.83	-25.00	-17.83	V
10420.04	-31.89	12.09	23.19	-42.99	-25.00	-17.99	V
LTE Band 41 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5290.09	-34.35	12.76	15.86	-37.45	-25.00	-12.45	H
7934.86	-35.07	11.45	19.28	-42.90	-25.00	-17.90	H
10579.88	-32.23	12.28	23.19	-43.14	-25.00	-18.14	H
5290.09	-34.63	12.76	15.86	-37.73	-25.00	-12.73	V
7934.86	-34.24	11.45	19.28	-42.07	-25.00	-17.07	V
10579.88	-31.76	12.28	23.19	-42.67	-25.00	-17.67	V

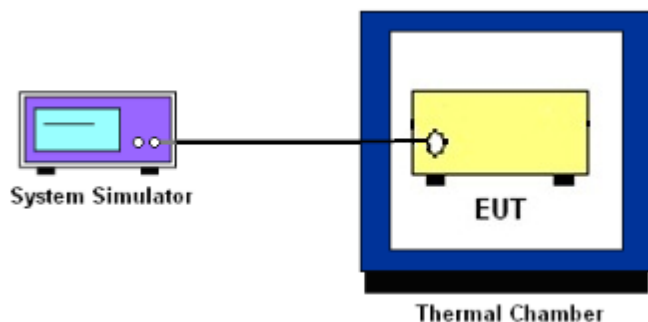
9. FREQUENCY STABILITY

9.1 DESCRIPTION OF FREQUENCY STABILITY MEASUREMENT

10.1.1 MEASUREMENT METHOD

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

9.1.2 TEST SETUP



9.1.3 TEST PROCEDURES FOR TEMPERATURE VARIATION

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in 10°C step up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

9.1.4 TEST PROCEDURES FOR VOLTAGE VARIATION

1. The testing follows FCC KDB 971168 D01v01r03 Section 9.
2. The EUT was placed in a temperature chamber at $25 \pm 5^{\circ}\text{C}$ and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
4. The variation in frequency was measured for the worst case.



9.1.5 TEST RESULTS

LTE Band 2 (QPSK) / 1880MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	29.29	0.016	2.5ppm	PASS
40		21.46	0.011		
30		32.90	0.017		
20		12.14	0.006		
10		33.22	0.018		
0		23.30	0.012		
-10		27.08	0.014		
-20		15.03	0.008		
-30		27.36	0.015		
20	Maximum Voltage	14.32	0.008		
20	BEP	18.02	0.010		

LTE Band 2 (QPSK) / 1880MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	28.13	0.015	2.5ppm	PASS
40		15.95	0.008		
30		24.97	0.013		
20		17.91	0.010		
10		20.88	0.011		
0		27.98	0.015		
-10		21.77	0.012		
-20		17.02	0.009		
-30		35.16	0.019		
20	Maximum Voltage	24.05	0.013		
20	BEP	18.73	0.010		



LTE Band 4 (QPSK) / 1733MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	23.98	0.014	2.5ppm	PASS
40		31.04	0.018		
30		25.14	0.015		
20		28.78	0.017		
10		17.14	0.010		
0		32.48	0.019		
-10		31.52	0.018		
-20		32.11	0.019		
-30		27.47	0.016		
20	Maximum Voltage	20.74	0.012		
20	BEP	20.55	0.012		

LTE Band 4 (QPSK) / 1733MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	12.11	0.007	2.5ppm	PASS
40		15.71	0.009		
30		16.31	0.009		
20		24.15	0.014		
10		28.25	0.016		
0		24.22	0.014		
-10		30.88	0.018		
-20		31.76	0.018		
-30		28.82	0.017		
20	Maximum Voltage	28.65	0.017		
20	BEP	32.00	0.018		



LTE Band 5 (QPSK) / 836.5MHz / BW5M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	25.39	0.036	2.5ppm	PASS
40		14.65	0.021		
30		34.83	0.049		
20		32.66	0.046		
10		28.04	0.039		
0		22.48	0.032		
-10		15.32	0.002		
-20		29.34	0.041		
-30		30.27	0.043		
20	Maximum Voltage	31.79	0.045		
20	BEP	11.53	0.016		

LTE Band 5 (QPSK) / 836.5MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	33.91	0.048	2.5ppm	PASS
40		21.52	0.030		
30		26.93	0.038		
20		22.62	0.032		
10		32.16	0.045		
0		31.52	0.044		
-10		17.39	0.002		
-20		12.61	0.018		
-30		32.74	0.046		
20	Maximum Voltage	27.13	0.038		
20	BEP	24.25	0.034		



LTE Band 7 (QPSK) / 2535MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	13.85	0.005	2.5ppm	PASS
40		25.13	0.010		
30		27.81	0.011		
20		15.79	0.006		
10		11.87	0.005		
0		35.98	0.014		
-10		25.37	0.010		
-20		33.04	0.013		
-30		27.70	0.011		
20	Maximum Voltage	15.81	0.006		
20	BEP	29.02	0.011		

LTE Band 7 (QPSK) / 2535MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	36.50	0.014	2.5ppm	PASS
40		29.38	0.012		
30		17.02	0.007		
20		11.52	0.005		
10		14.09	0.006		
0		19.86	0.008		
-10		24.08	0.010		
-20		12.66	0.005		
-30		34.39	0.014		
20	Maximum Voltage	20.70	0.008		
20	BEP	30.74	0.012		



LTE Band 12 (QPSK) / 707.5MHz / BW5M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	11.53	0.016	2.5ppm	PASS
40		32.02	0.045		
30		31.16	0.044		
20		19.99	0.028		
10		22.44	0.032		
0		17.87	0.025		
-10		32.71	0.005		
-20		20.44	0.029		
-30		23.53	0.033		
20	Maximum Voltage	21.04	0.030		
20	BEP	27.06	0.038		

LTE Band 12 (QPSK) / 707.5MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	35.84	0.050	2.5ppm	PASS
40		15.69	0.022		
30		33.37	0.047		
20		24.33	0.034		
10		34.43	0.048		
0		12.74	0.018		
-10		33.26	0.005		
-20		28.28	0.040		
-30		27.92	0.039		
20	Maximum Voltage	29.92	0.042		
20	BEP	35.68	0.050		



LTE Band 17 (QPSK) / 710MHz / BW5M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	22.60	0.032	2.5ppm	PASS
40		23.07	0.032		
30		34.01	0.048		
20		34.67	0.049		
10		13.99	0.020		
0		13.42	0.019		
-10		21.66	0.003		
-20		17.90	0.025		
-30		18.40	0.026		
20	Maximum Voltage	13.78	0.019		
20	BEP	17.53	0.025		

LTE Band 17 (QPSK) / 710MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	24.48	0.034	2.5ppm	PASS
40		16.85	0.024		
30		12.69	0.018		
20		17.71	0.025		
10		30.26	0.043		
0		11.66	0.016		
-10		23.05	0.003		
-20		15.24	0.021		
-30		21.41	0.030		
20	Maximum Voltage	14.15	0.020		
20	BEP	32.54	0.046		



LTE Band 25 (QPSK) / 1882.5MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	13.60	0.007	2.5ppm	PASS
40		25.09	0.013		
30		25.67	0.014		
20		35.92	0.019		
10		30.39	0.016		
0		15.69	0.008		
-10		23.54	0.013		
-20		20.32	0.011		
-30		25.53	0.014		
20	Maximum Voltage	35.19	0.019		
20	BEP	15.44	0.008		

LTE Band 25 (QPSK) / 1882.5MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	14.49	0.008	2.5ppm	PASS
40		24.37	0.013		
30		14.97	0.008		
20		16.69	0.009		
10		32.40	0.017		
0		34.78	0.018		
-10		35.52	0.019		
-20		15.13	0.008		
-30		11.73	0.006		
20	Maximum Voltage	12.90	0.007		
20	BEP	12.14	0.006		



LTE Band 26(Part 22) (QPSK) / 836.5MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	14.74	0.009	2.5ppm	PASS
40		28.76	0.017		
30		22.63	0.013		
20		23.23	0.013		
10		33.79	0.019		
0		32.19	0.019		
-10		23.08	0.013		
-20		30.12	0.017		
-30		34.86	0.020		
20	Maximum Voltage	27.81	0.016		
20	BEP	34.42	0.020		

LTE Band 26(Part 22) (QPSK) / 836.5MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	26.51	0.015	2.5ppm	PASS
40		17.19	0.010		
30		13.80	0.008		
20		13.55	0.008		
10		34.52	0.020		
0		25.78	0.015		
-10		28.03	0.016		
-20		19.13	0.011		
-30		30.58	0.018		
20	Maximum Voltage	14.54	0.008		
20	BEP	19.16	0.011		



LTE Band 26(Part 90) (QPSK) / 819MHz / BW5M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	13.81	0.008	2.5ppm	PASS
40		33.75	0.019		
30		17.64	0.010		
20		14.13	0.008		
10		33.13	0.019		
0		28.05	0.016		
-10		12.38	0.007		
-20		31.34	0.018		
-30		22.14	0.013		
20	Maximum Voltage	11.73	0.007		
20	BEP	14.39	0.008		

LTE Band 26(Part 90) (QPSK) / 819MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	22.99	0.013	2.5ppm	PASS
40		15.94	0.009		
30		25.48	0.015		
20		26.52	0.015		
10		15.14	0.009		
0		14.21	0.008		
-10		26.89	0.016		
-20		23.41	0.014		
-30		14.61	0.008		
20	Maximum Voltage	28.84	0.017		
20	BEP	17.28	0.010		



LTE Band 38 (QPSK) / 2595MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	25.77	0.010	2.5ppm	PASS
40		18.66	0.007		
30		13.76	0.005		
20		26.61	0.010		
10		21.15	0.008		
0		11.76	0.005		
-10		27.00	0.011		
-20		28.05	0.011		
-30		17.06	0.007		
20	Maximum Voltage	19.67	0.008		
20	BEP	31.98	0.013		

LTE Band 38 (QPSK) / 2595MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	25.04	0.010	2.5ppm	PASS
40		26.22	0.010		
30		17.57	0.007		
20		35.81	0.014		
10		12.00	0.005		
0		17.60	0.007		
-10		28.99	0.011		
-20		23.64	0.009		
-30		25.46	0.010		
20	Maximum Voltage	30.18	0.012		
20	BEP	14.22	0.006		



LTE Band 41 (QPSK) / 2605MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	15.26	0.006	2.5ppm	PASS
40		35.94	0.014		
30		31.93	0.013		
20		16.69	0.007		
10		34.99	0.014		
0		22.86	0.009		
-10		34.62	0.014		
-20		23.53	0.009		
-30		12.11	0.005		
20	Maximum Voltage	15.24	0.006		
20	BEP	14.47	0.006		

LTE Band 41 (QPSK) / 2605MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	15.87	0.006	2.5ppm	PASS
40		18.03	0.007		
30		36.19	0.014		
20		30.94	0.012		
10		23.15	0.009		
0		27.58	0.011		
-10		22.87	0.009		
-20		30.12	0.012		
-30		19.09	0.008		
20	Maximum Voltage	17.48	0.007		
20	BEP	27.29	0.011		



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※※※※※

