

TEST REPORT

Application No.: FYCR2211000436AT
Applicant: Hon Lin Technology Co., Ltd.
Address of Applicant: 11F, No.32, Jihu Rd., Neihu Dist., Taipei City, Taiwan
Manufacturer: Foxconn Industrial Internet Co.,Ltd
Address of Manufacturer: No.2,2nd Donghuan Road,10th Yousong Industrial District, Longhua, Shenzhen City, Guangdong Provice, China
Factory: Nanning Fulian Fugui Precision Co.,Ltd
Address of Factory: No.51, Tongle Boulevard, Shajing, Jiangnan District, Nanning, P. R. CHINA

Equipment Under Test (EUT):
EUT Name: LTE GPS Tracker
Model No.: QTS110
Trade Mark: Qualcomm Aware
FCC ID: 2AQ68-QTS110
Standard(s) : 47 CFR Part 2
47 CFR Part 22 subpart H
47 CFR Part 24 subpart E
47 CFR Part 27 subpart C
47 CFR Part 90 subpart S

Date of Receipt: 2022-11-02
Date of Test: 2022-11-03 to 2022-12-09
Date of Issue: 2022-12-12

Test Result:	Pass
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* In the configuration tested, the EUT complied with the standards specified above.



Winkey Wang
EMC Technical Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-12-12		Original

Authorized for issue by:			
		<i>Tree Zhan</i>	
		Tree Zhan/Project Engineer	
		<i>Winkey Wang</i>	
		Winkey Wang/Reviewer	



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2 Test Summary

Test Item	FCC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Output Power Data	§2.1046 §22.913 §24.232 §27.50(b) §27.50(c) §27.50(d) §90.542(a) §90.635	ERP≤ 7W(Cat M1 B5,19,26b/Cat NB B5,19,26b) EIRP≤ 2W(Cat M1 B2,25/Cat NB B2,25) ERP≤ 3W(Cat M1 B13/Cat NB B13) ERP≤ 3W(Cat M1 B12,85/Cat NB B12,85) EIRP≤ 1W(Cat M1 B4,66/Cat NB B4,66) ERP≤ 30W(Cat M1 B14) ERP≤ 100W(Cat M1 B26a/Cat NB B26a)	PASS
Peak-Average Ratio	§22.913 §24.232 §27.50(d)	≤13dB	PASS
Modulation Characteristics	§2.1047	Digital modulation	PASS
Bandwidth	§2.1049(h)	OBW: No limit EBW: No limit	PASS
Band Edge Compliance	§2.1051 §22.917 §24.238 §27.50(c) §27.50(g) §27.50(h) §90.543(e) §90.691	≤ -13dBm (Cat M1 B5,19,26b/Cat NB B5,19,26b) ≤ -13dBm (Cat M1 B2,25/Cat NB B2,25) Refer to clause 6.4 for Cat M1 B13/Cat NB B13 ≤ -13dBm (Cat M1 B12,85/Cat NB B12,85) ≤ -13dBm (Cat M1 B4,66/Cat NB B4,66) Refer to clause 6.4 for Cat M1 B14 Refer to clause 6.4 for Cat M1 B26a/Cat NB B26a	PASS
Spurious emissions at antenna terminals	§2.1051 §22.917 §24.238 §27.50(c) §27.50(g) §27.50(h) §90.543(e) §90.691	≤ -13dBm (Cat M1 B5,19,26b/Cat NB B5,19,26b) ≤ -13dBm (Cat M1 B2,25/Cat NB B2,25) Refer to clause 6.5 for Cat M1 B13/Cat NB B13 ≤ -13dBm (Cat M1 B12,85/Cat NB B12,85) ≤ -13dBm (Cat M1 B4,66/Cat NB B4,66) Refer to clause 6.5 for Cat M1 B14 Refer to clause 6.5 for Cat M1 B26a/Cat NB B26a	PASS
Field strength of spurious radiation	§2.1051 §22.917 §24.238 §27.50(c) §27.50(g) §27.50(h) §90.543(e) §90.691	≤ -13dBm (Cat M1 B5,19,26b/Cat NB B5,19,26b) ≤ -13dBm (Cat M1 B2,25/Cat NB B2,25) Refer to clause 6.6 for Cat M1 B13/Cat NB B13 ≤ -13dBm (Cat M1 B12,85/Cat NB B12,85) ≤ -13dBm (Cat M1 B4,66/Cat NB B4,66) Refer to clause 6.6 for Cat M1 B14 Refer to clause 6.6 for Cat M1 B26a/Cat NB B26a	PASS



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Frequency stability	§2.1055 §22.355 §24.235 §27.54 §90.213	≤ ±2.5ppm.	PASS
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Remark: Final product will be equipped with normal SIM card or eSIM, which will not affect the EMC and RF performance according to declaration letter. For this project, normal SIM card was used to test.



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC3.7V by li-ion battery Recharged input: DC5V/1.5A
Sample Type:	Mobile production
LTE Operation Frequency Band:	LTE Cat M1 B2,4,5,12,13,14,19,25,26,66,85 LTE Cat NB B2,4,5,12,13,19,25,26,66,85
Modulation Type:	QPSK, 16QAM For Cat M1 BPSK, QPSK for Cat NB
LTE Power Class:	Class 5(Rated Power: 20dBm)
Antenna Type:	PIFA Antenna
Antenna Gain:	B2: 2.65dBi B4: 3.05dBi B5: 3.53dBi B12: 1.95dBi B13: 1.22dBi B14: 2.54dBi B19: 3.48dBi B25: 2.65dBi B26: 3.53dBi B66: 3.05dBi B85: 1.95dBi

4.2 Test Frequency

Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE Cat M1 Band 2	1.4	1850.7	1880.0	1909.3
	3	1851.5	1880.0	1908.5
	5	1852.5	1880.0	1907.5
	10	1855.0	1880.0	1905.0
	15	1857.5	1880.0	1902.5
	20	1860.0	1880.0	1900.0
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE Cat M1 Band 4	1.4	1710.7	1732.5	1754.3
	3	1711.5	1732.5	1753.5



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	5	1712.5	1732.5	1752.5
	10	1715.0	1732.5	1750.0
	15	1717.5	1732.5	1747.5
	20	1720.0	1732.5	1745.0
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE Cat M1 Band 5	1.4	824.7	836.5	848.3
	3	825.5	836.5	847.5
	5	826.5	836.5	846.5
	10	829.0	836.5	844.0
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE Cat M1 Band 12	1.4	699.7	707.5	715.3
	3	700.5	707.5	714.5
	5	701.5	707.5	713.5
	10	704.0	707.5	711.0
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE Cat M1 Band 13	5	779.5	782.0	784.5
	10	/	782.0	/
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE Cat M1 Band 14	5	790.5	793.0	795.5
	10	/	793.0	/
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE Cat M1 Band 19	5	832.5	837.5	842.5
	10	835.0	837.5	840.0
	15	/	837.5	/
Test mode:	Nominal Bandwidth	RF Channel		
		Low (L)	Middle (M)	High (H)



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	(MHz)	MHz	MHz	MHz
LTE Cat M1 Band 25	1.4	1850.7	1882.5	1914.3
	3	1851.5	1882.5	1913.5
	5	1852.5	1882.5	1912.5
	10	1855.0	1882.5	1910.0
	15	1857.5	1882.5	1907.5
	20	1860.0	1882.5	1905.0
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE Cat M1 Band 26a	1.4	814.7	819.0	823.3
	3	815.5	819.0	822.5
	5	816.5	819.0	821.5
	10	/	819.0	/
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE Cat M1 Band 26b	1.4	824.7	836.5	848.3
	3	825.5	836.5	847.5
	5	826.5	836.5	846.5
	10	829.0	836.5	844.0
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE Cat M1 Band 26 cross rule	15	821.5	831.5	841.5
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE Cat M1 Band 66	1.4	1710.7	1745.0	1779.3
	3	1711.5	1745.0	1778.5
	5	1712.5	1745.0	1777.5
	10	1715.0	1745.0	1775.0
	15	1717.5	1745.0	1772.5
	20	1720.0	1745.0	1770.0
Test mode:		RF Channel		



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Shenzhen Branch

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	Nominal Bandwidth (MHz)	Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE Cat M1 Band 85	5	700.5	707.0	713.5
	10	703.0	707.0	711.0

Test mode:	Sub Carrier Spacing (KHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE Cat NB Band 2	3.75	1850.1	1880.0	1909.9
	15	1850.1	1880.0	1909.9
Test mode:	Sub Carrier Spacing (KHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE Cat NB Band 4	3.75	1710.1	1732.5	1754.9
	15	1710.1	1732.5	1754.9
Test mode:	Sub Carrier Spacing (KHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE Cat NB Band 5	3.75	824.1	836.5	848.9
	15	824.1	836.5	848.9
Test mode:	Sub Carrier Spacing (KHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE Cat NB Band 12	3.75	699.1	707.5	715.9
	15	699.1	707.5	715.9
Test mode:	Sub Carrier Spacing (KHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE Cat NB Band 13	3.75	777.1	782.0	786.9
	15	777.1	782.0	786.9
Test mode:	Sub Carrier Spacing (KHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE Cat NB Band 19	3.75	830.1	837.5	844.9
	15	830.1	837.5	844.9



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Test mode:	Sub Carrier Spacing (KHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE Cat NB Band 25	3.75	1850.1	1882.5	1914.9
	15	1850.1	1882.5	1914.9
Test mode:	Sub Carrier Spacing (KHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE Cat NB Band 26a	3.75	814.2	819.0	823.8
	15	814.2	819.0	823.8
Test mode:	Sub Carrier Spacing (KHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE Cat NB Band 26b	3.75	824.1	836.5	848.9
	15	824.1	836.5	848.9
Test mode:	Sub Carrier Spacing (KHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE Cat NB Band 66	3.75	1710.1	1745.0	1779.9
	15	1710.1	1745.0	1779.9
Test mode:	Sub Carrier Spacing (KHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE Cat NB Band 85	3.75	698.1	707.0	715.9
	15	698.1	707.0	715.9



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4.3 Test Environment

Environment Parameter	Selected Values During Tests	
Temperature:	TL	-30°C
	TN	+20°C
	TH	+50°C
Voltage:	VL	DC3.2 V
	VN	DC3.7 V
	VH	DC4.2 V

NOTE: VL= lower extreme test voltage
 VN= nominal voltage
 VH= upper extreme test voltage
 TL= lower extreme test temperature
 TN= normal temperature
 TH= upper extreme test temperature

4.4 Description of Support Units

The EUT has been tested independent unit.

4.5 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 5.4 \times 10^{-8}$
2	Duty cycle	$\pm 0.3\%$
3	Occupied Bandwidth	$\pm 3\%$
4	RF conducted power	$\pm 0.8\text{dB}$
5	RF power density	$\pm 0.4\text{dB}$
6	Conducted Spurious emissions	$\pm 2.7\text{dB}$
7	Radiated Spurious emission test	$\pm 3.1\text{dB}$ (Below 1GHz)
		$\pm 4.4\text{dB}$ (Above 1GHz)
8	Temperature test	$\pm 1^\circ\text{C}$
9	Humidity test	$\pm 3\%$
10	Supply voltages	$\pm 1.5\%$
11	Time	$\pm 3\%$



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4.6 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• **A2LA (Certificate No. 6606.01)**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

• **FCC –Designation Number: CN1322**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• **Innovation, Science and Economic Development Canada**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

4.8 Deviation from Standards

None

4.9 Abnormalities from Standard Conditions

None



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5 Equipment List

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2022/07/12	2023/07/11
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2022/07/12	2023/07/11
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2022/07/12	2023/07/11
Measurement Software	TST	TST PASS V2.0	N/A	N/A	N/A
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/07/12	2023/07/11
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2022/03/29	2023/03/28
Power Sensor	KEYSIGHT	U2021XA	SEM009-15	2022/07/12	2023/07/11

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
MXE EMI receiver	Agilent	N9038A	SEM004-05	2022/07/12	2023/07/11
Pre-amplifier	HP	8447D	SEM005-02	2022/07/12	2023/07/11
Spectrum Analyzer	Rohde & Schwarz	101288	SEM004-08	2022/07/12	2023/07/11
Low Noise Amplifier	CLAVIIO	BDLNA-0118-352810	SEM005-05	2022/07/12	2023/07/11
Substitution Antenna	Schwarzbeck	VULB9168	SEM003-18	2022/08/07	2025/08/06
Signal Generator(9kHz-40GHz)	N5173B	MY53270267	Agilent	2022/07/12	2023/07/11
Pre-amplifier	HP	8447D	SEM005-02	2022/07/12	2023/07/11
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
Double-ridged waveguide horn	ETS-LINDGREN	3117	SEM003-34	2021/9/25	2024/9/24
Spectrum Analyzer	Rohde & Schwarz	101288	SEM004-08	2022/07/12	2023/07/11
Low Noise Amplifier	CLAVIIO	BDLNA-0118-352810	SEM005-05	2022/07/12	2023/07/11



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Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2022/07/12	2023/07/11
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2022/07/12	2023/07/11
Substitution Antenna	ETS-Lindgren	3142C	SEM003-01	2020/06/26	2023/06/25
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2022/03/29	2023/03/28

General used equipment

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-22	2022-07-12	2023-07-11
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-23	2022-07-12	2023-07-11
Barometer	DUMAI	DYM3	SEM002-24	2022-07-12	2023-07-11



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6 Radio Spectrum Matter Test Results

6.1 Effective (Isotropic) Radiated Output Power Data

Test Requirement:	§2.1046, §22.913, §24.232, §27.50(b), §27.50(c), §27.50(d), §90.542(a), §90.635
Test Method:	ANSI C63.26-2015, KDB 971168 D01 v03r01
Limit:	ERP ≤ 7W (Cat M1 B5, 19, 26b / Cat NB B5, 19, 26b) EIRP ≤ 2W (Cat M1 B2, 25 / Cat NB B2, 25) ERP ≤ 3W (Cat M1 B13 / Cat NB B13) ERP ≤ 3W (Cat M1 B12, 85 / Cat NB B12, 85) EIRP ≤ 1W (Cat M1 B4, 66 / Cat NB B4, 66) ERP ≤ 30W (Cat M1 B14) ERP ≤ 100W (Cat M1 B26a / Cat NB B26a)

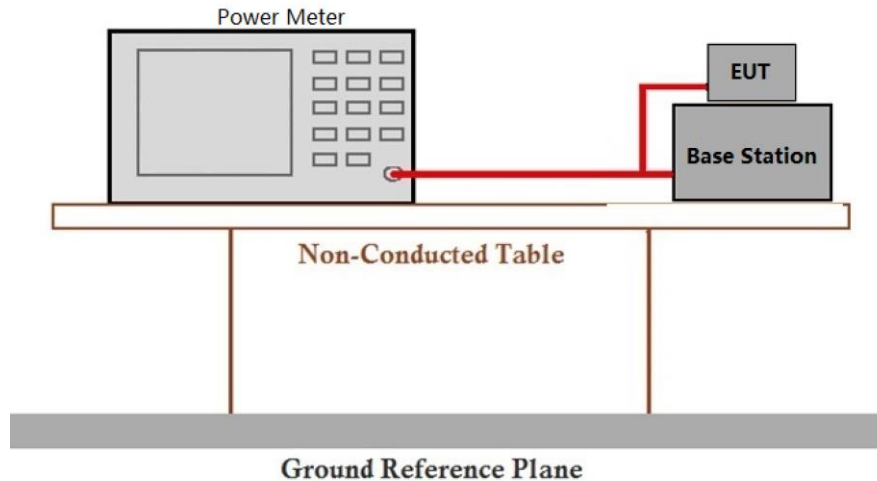
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 30: Tx mode, Keep the EUT in transmitting mode.

6.1.2 Test Setup Diagram



6.1.3 Measurement Data

Please refer to Appendix for LTE Cat M & Cat NB RF power test data.



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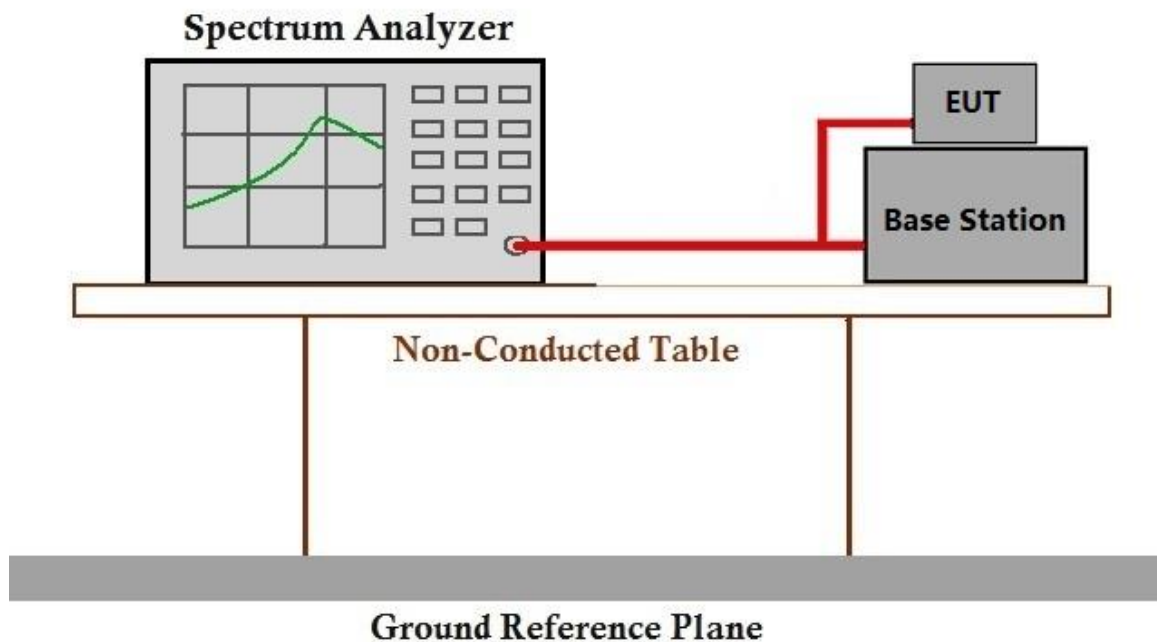
6.2 Peak-Average Ratio

Test Requirement: §22.913, §24.232, §27.50(d)
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
 Limit: ≤13dB

6.2.1 E.U.T. Operation

Operating Environment:
 Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar
 Test mode 30: Tx mode, Keep the EUT in transmitting mode.

6.2.2 Test Setup Diagram



6.2.3 Measurement Data

Please refer to Appendix for LTE Cat M & Cat NB PAR test data.



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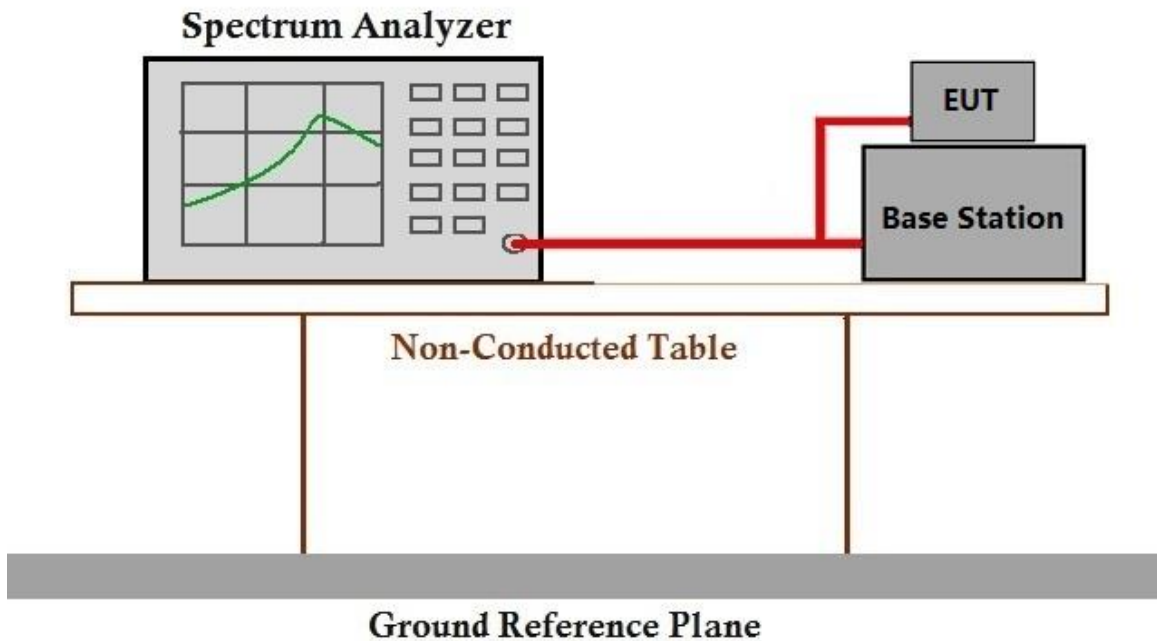
6.3 Bandwidth

Test Requirement: §2.1049(h)
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
 Limit: OBW: No limit
 EBW: No limit

6.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar
 Test mode 30: Tx mode, Keep the EUT in transmitting mode.

6.3.2 Test Setup Diagram



6.3.3 Measurement Data

Please refer to Appendix for LTE Cat M & Cat NB bandwidth test data.



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6.4 Band Edge Compliance

Test Requirement: §2.1051,§22.917,§24.238,§27.50(c),§27.50(g),§27.50(h),§90.543(e)
§90.691

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: ≤ -13dBm (**LTE Band2,4,5,12,19,25,26b,66,85**)

For band 13:

(1) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;

(2) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations

For Band 14:

On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.

For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/MHz(-40dBm/MHz) equivalent isotropically radiated power (EIRP) for wideband signals.

For Band26a:

For any frequency removed from the EA licensee’s frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar

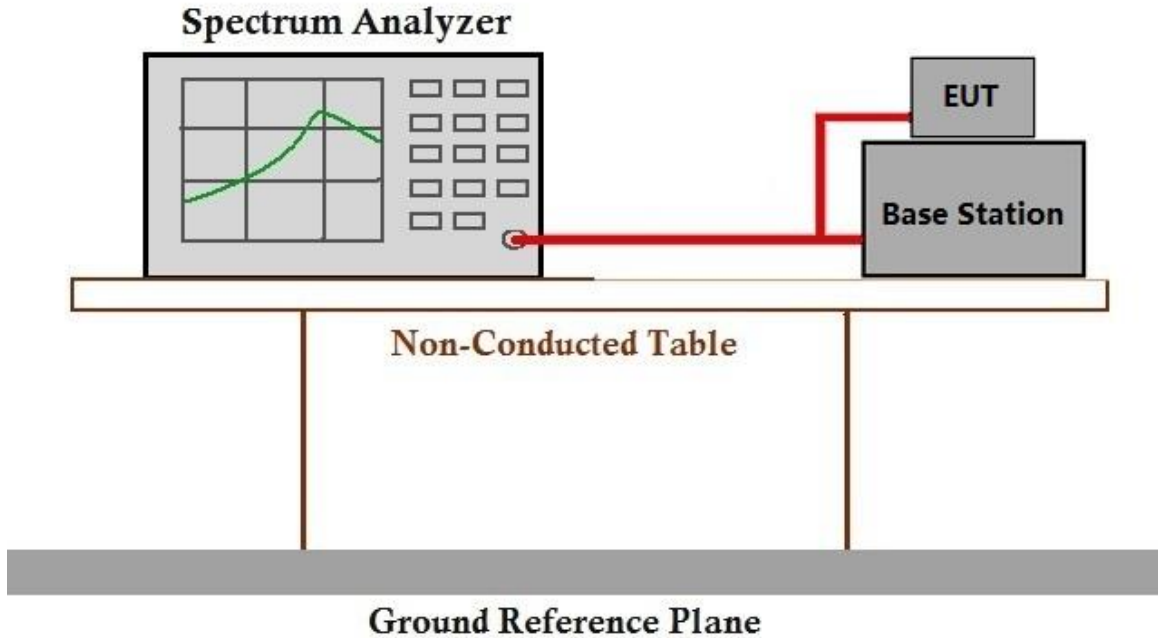
Test mode 30: Tx mode, Keep the EUT in transmitting mode.



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6.4.2 Test Setup Diagram



6.4.3 Measurement Data

Please refer to Appendix for LTE Cat M & Cat NB bandedge test data.



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6.5 Spurious emissions at antenna terminals

Test Requirement: §2.1051, §22.917, §24.238, §27.50(c), §27.50(g), §27.50(h), §90.543(e), §90.691

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: ≤ -13dBm (**LTE Band2,4,5,12,19,25,26b,66,85**)

For band 13:

(1) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;

(2) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations

For Band 14:

On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log(P)$ dB.

For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/MHz(-40dBm/MHz) equivalent isotropically radiated power (EIRP) for wideband signals.

For Band26a:

For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar

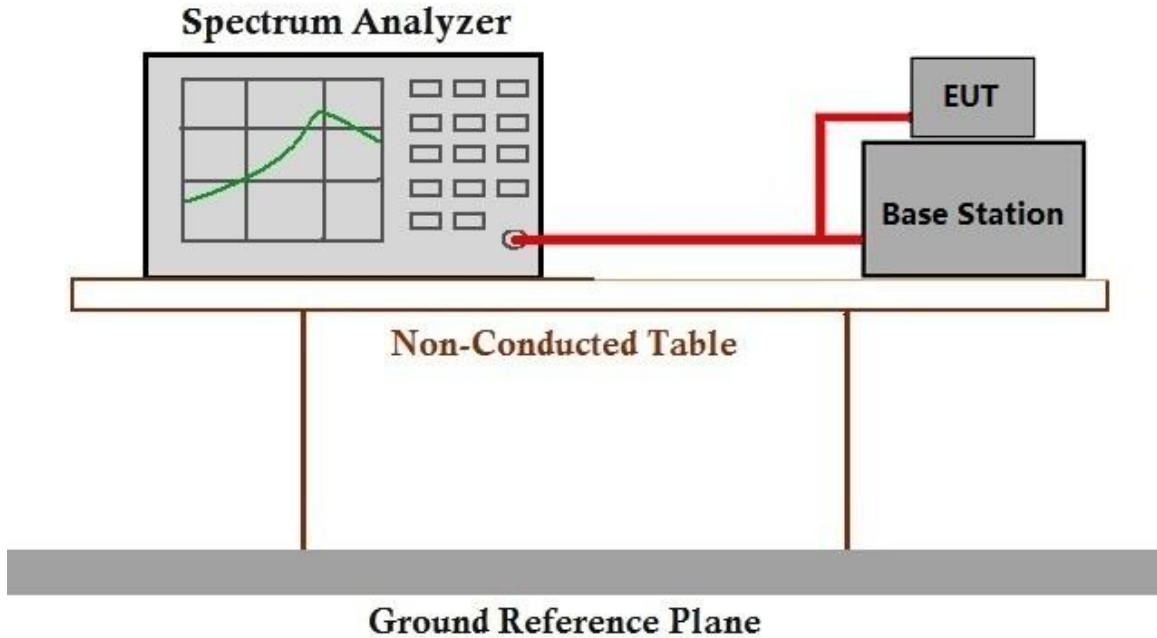
Test mode 30: Tx mode, Keep the EUT in transmitting mode.



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6.5.2 Test Setup Diagram



6.5.3 Measurement Data

Please refer to Appendix for LTE Cat M & Cat NB CSE test data.



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6.6 Field strength of spurious radiation

Test Requirement: §2.1051,§22.917,§24.238,§27.50(c),§27.50(g),§27.50(h),§90.543(e)
§90.691

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: ≤ -13dBm (LTE Band2,4,5,12,19,25,26b,66,85)

For band 13:

(1) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;

(2) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations

For Band 14:

On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.

For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/MHz(-40dBm/MHz) equivalent isotropically radiated power (EIRP) for wideband signals.

For Band26a:

For any frequency removed from the EA licensee’s frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

6.6.1 E.U.T. Operation

Operating Environment:

Temperature: 18.5 °C Humidity: 39.5 % RH Atmospheric Pressure: 1020 mbar

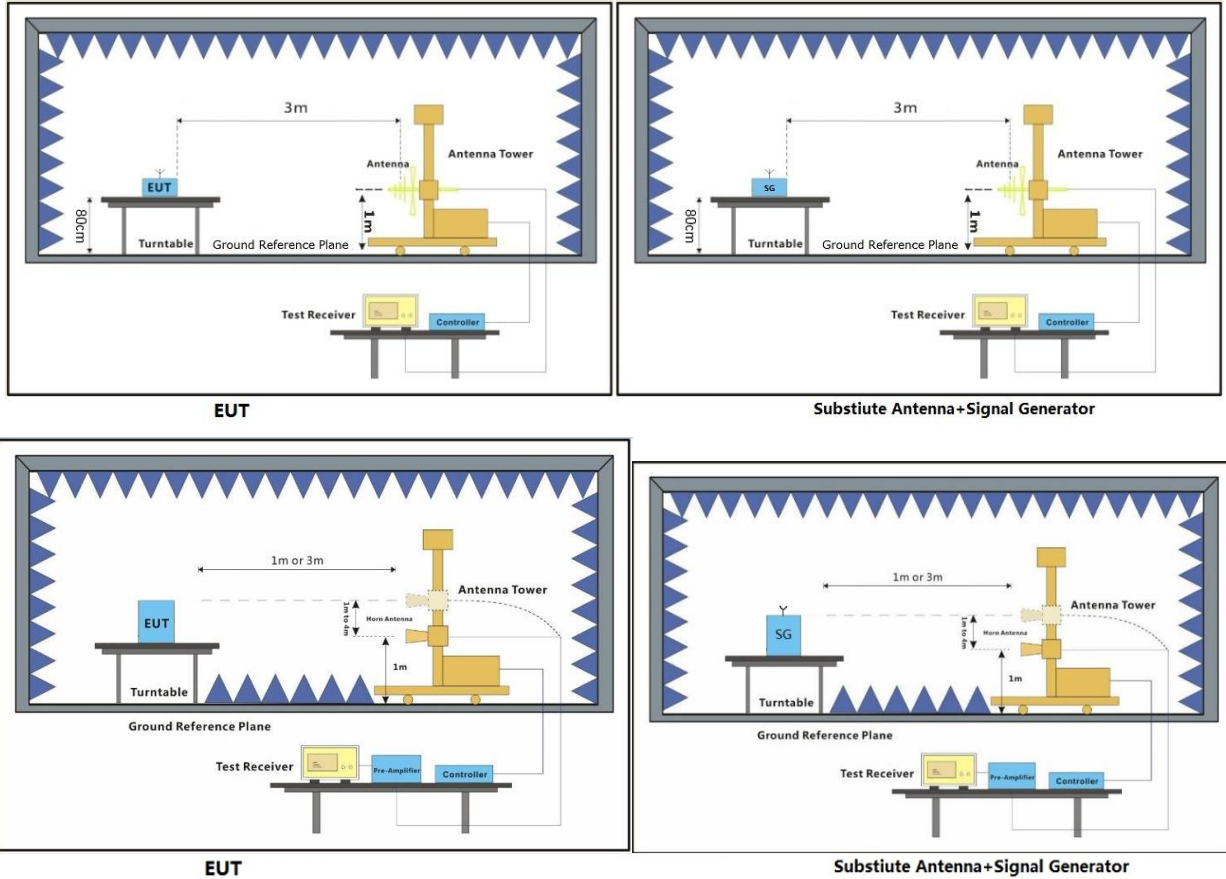
Test mode 30: Tx mode, Keep the EUT in transmitting mode.



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6.6.2 Test Setup Diagram



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6.6.3 Measurement Procedure and Data

Test Procedure:

- (1) On a test site, the EUT shall be placed on a turntable and in the position closest to the normal use as declared by the user.
- (2) The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
- (3) The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
- (4) The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
- (5) The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
- (6) The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- (7) The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
- (8) The maximum signal level detected by the measuring receiver shall be noted.
- (9) The measurement shall be repeated with the test antenna set to horizontal polarization.
- (10) Replace the antenna with a proper Antenna (substitution antenna).
- (11) The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
- (12) The substitution antenna shall be connected to a calibrated signal generator.
- (13) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- (14) The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
- (15) The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
- (16) The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
- (17) The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100043604

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CAT M1:

FDD LTE Band2-Low channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3703.8	-49.22	-13	-36.22	-51.44	6.99	9.21	Horizontal	Pass
5555.7	-52.03	-13	-39.03	-54.35	8.27	10.59	Horizontal	Pass
7407.6	-49.1	-13	-36.1	-52.64	8.19	11.73	Horizontal	Pass
3703.8	-52.49	-13	-39.49	-54.71	6.99	9.21	Vertical	Pass
5555.7	-51.3	-13	-38.3	-53.62	8.27	10.59	Vertical	Pass
7407.6	-49.67	-13	-36.67	-53.21	8.19	11.73	Vertical	Pass

FDD LTE Band2-Middle channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3743.8	-49.18	-13	-36.18	-51.4	6.99	9.21	Horizontal	Pass
5615.7	-53.09	-13	-40.09	-55.41	8.27	10.59	Horizontal	Pass
7487.6	-48.37	-13	-35.37	-51.91	8.19	11.73	Horizontal	Pass
3743.8	-53.72	-13	-40.72	-55.94	6.99	9.21	Vertical	Pass
5615.7	-52.96	-13	-39.96	-55.28	8.27	10.59	Vertical	Pass
7487.6	-48.44	-13	-35.44	-51.98	8.19	11.73	Vertical	Pass

FDD LTE Band2-High channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3816.2	-48.31	-13	-35.31	-50.53	6.99	9.21	Horizontal	Pass
5724.3	-52.39	-13	-39.39	-54.71	8.27	10.59	Horizontal	Pass
7632.4	-48.68	-13	-35.68	-52.51	8.43	12.26	Horizontal	Pass
3816.2	-51.9	-13	-38.9	-54.12	6.99	9.21	Vertical	Pass
5724.3	-53.69	-13	-40.69	-56.01	8.27	10.59	Vertical	Pass
7632.4	-48.77	-13	-35.77	-52.6	8.43	12.26	Vertical	Pass



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FDD LTE Band4-Low channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3423.8	-55.34	-13	-42.34	-57.92	5.72	8.3	Horizontal	Pass
5135.7	-51.25	-13	-38.25	-53.25	8.3	10.3	Horizontal	Pass
6847.6	-50.83	-13	-37.83	-54.38	7.7	11.25	Horizontal	Pass
3423.8	-50.57	-13	-37.57	-53.15	5.72	8.3	Vertical	Pass
5135.7	-51.76	-13	-38.76	-53.76	8.3	10.3	Vertical	Pass
6847.6	-51.35	-13	-38.35	-54.9	7.7	11.25	Vertical	Pass

FDD LTE Band4-Middle channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3448.8	-55.11	-13	-42.11	-57.69	5.72	8.3	Horizontal	Pass
5173.2	-52.57	-13	-39.57	-54.57	8.3	10.3	Horizontal	Pass
6897.6	-52.61	-13	-39.61	-56.16	7.7	11.25	Horizontal	Pass
3448.8	-50.43	-13	-37.43	-53.01	5.72	8.3	Vertical	Pass
5173.2	-51.1	-13	-38.1	-53.1	8.3	10.3	Vertical	Pass
6897.6	-52.08	-13	-39.08	-55.63	7.7	11.25	Vertical	Pass

FDD LTE Band4-High channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3506.2	-54.7	-13	-41.7	-57.28	5.72	8.3	Horizontal	Pass
5259.3	-51.72	-13	-38.72	-53.72	8.3	10.3	Horizontal	Pass
7012.4	-51.05	-13	-38.05	-54.6	7.7	11.25	Horizontal	Pass
3506.2	-50.98	-13	-37.98	-53.56	5.72	8.3	Vertical	Pass
5259.3	-52.83	-13	-39.83	-54.83	8.3	10.3	Vertical	Pass
7012.4	-51.14	-13	-38.14	-54.69	7.7	11.25	Vertical	Pass



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 Shenzhen Branch

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FDD LTE Band5-Low channel, Modulation: QPSK, Bandwidth: 10MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1650.44	-37.73	-13	-24.73	-41.39	3.77	7.43	Horizontal	Pass
2475.66	-51.31	-13	-38.31	-53.64	4.75	7.08	Horizontal	Pass
3300.88	-54.96	-13	-41.96	-57.54	5.72	8.3	Horizontal	Pass
1650.44	-46.19	-13	-33.19	-49.85	3.77	7.43	Vertical	Pass
2475.66	-52.1	-13	-39.1	-54.43	4.75	7.08	Vertical	Pass
3300.88	-54.59	-13	-41.59	-57.17	5.72	8.3	Vertical	Pass

FDD LTE Band5-Middle channel, Modulation: QPSK, Bandwidth: 10MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1665.44	-37.4	-13	-24.4	-41.06	3.77	7.43	Horizontal	Pass
2498.16	-51.04	-13	-38.04	-53.37	4.75	7.08	Horizontal	Pass
3330.88	-54.07	-13	-41.07	-56.65	5.72	8.3	Horizontal	Pass
1665.44	-48.1	-13	-35.1	-51.76	3.77	7.43	Vertical	Pass
2498.16	-53.11	-13	-40.11	-55.44	4.75	7.08	Vertical	Pass
3330.88	-53.35	-13	-40.35	-55.93	5.72	8.3	Vertical	Pass

FDD LTE Band5-High channel, Modulation: QPSK, Bandwidth: 10MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1695.56	-41.14	-13	-28.14	-44.8	3.77	7.43	Horizontal	Pass
2543.34	-52.36	-13	-39.36	-54.83	5.13	7.6	Horizontal	Pass
3391.12	-54.16	-13	-41.16	-56.74	5.72	8.3	Horizontal	Pass
1695.56	-47.82	-13	-34.82	-51.48	3.77	7.43	Vertical	Pass
2543.34	-54.25	-13	-41.25	-56.72	5.13	7.6	Vertical	Pass
3391.12	-54.2	-13	-41.2	-56.78	5.72	8.3	Vertical	Pass



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Shenzhen Branch

Fuyong lab, Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China 518103 t (86-755) 88663988 f (86-755) 26710594 www.sgs.com.cn
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FDD LTE Band12-Low channel, Modulation: QPSK, Bandwidth: 10MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1400.44	-36.76	-13	-23.76	-39.29	2.64	5.17	Horizontal	Pass
2100.66	-48.8	-13	-35.8	-51.13	4.75	7.08	Horizontal	Pass
2800.88	-58.13	-13	-45.13	-60.6	5.13	7.6	Horizontal	Pass
1400.44	-44.45	-13	-31.45	-46.98	2.64	5.17	Vertical	Pass
2100.66	-58.04	-13	-45.04	-60.37	4.75	7.08	Vertical	Pass
2800.88	-58.51	-13	-45.51	-60.98	5.13	7.6	Vertical	Pass

FDD LTE Band12-Middle channel, Modulation: QPSK, Bandwidth: 10MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1407.44	-40.06	-13	-27.06	-42.59	2.64	5.17	Horizontal	Pass
2111.16	-49.33	-13	-36.33	-51.66	4.75	7.08	Horizontal	Pass
2814.88	-56.51	-13	-43.51	-58.98	5.13	7.6	Horizontal	Pass
1407.44	-45.3	-13	-32.3	-47.83	2.64	5.17	Vertical	Pass
2111.16	-58.49	-13	-45.49	-60.82	4.75	7.08	Vertical	Pass
2814.88	-57.53	-13	-44.53	-60	5.13	7.6	Vertical	Pass

FDD LTE Band12-High channel, Modulation: QPSK, Bandwidth: 10MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1429.56	-38.49	-13	-25.49	-41.02	2.64	5.17	Horizontal	Pass
2144.34	-49.45	-13	-36.45	-51.78	4.75	7.08	Horizontal	Pass
2859.12	-56.84	-13	-43.84	-59.31	5.13	7.6	Horizontal	Pass
1429.56	-45.12	-13	-32.12	-47.65	2.64	5.17	Vertical	Pass
2144.34	-58.32	-13	-45.32	-60.65	4.75	7.08	Vertical	Pass
2859.12	-56.81	-13	-43.81	-59.28	5.13	7.6	Vertical	Pass



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Shenzhen Branch

Fuyong lab, Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China 518103 t (86-755) 88663988 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·宝安区福永街道凤塘大道鑫龙科技园福永实验室 邮编: 518103 t (86-755) 88663988 f (86-755) 26710594 sgs.china@sgs.com

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FDD LTE Band13- Middle channel, Modulation: QPSK, Bandwidth: 10MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1556.44	-43.01	-13	-30.01	-46.67	3.77	7.43	Horizontal	Pass
2334.66	-59.63	-13	-46.63	-61.96	4.75	7.08	Horizontal	Pass
3112.88	-54.63	-13	-41.63	-57.21	5.72	8.3	Horizontal	Pass
1556.44	-44.89	-13	-31.89	-48.55	3.77	7.43	Vertical	Pass
2334.66	-60	-13	-47	-62.33	4.75	7.08	Vertical	Pass
3112.88	-55.72	-13	-42.72	-58.3	5.72	8.3	Vertical	Pass



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FDD LTE Band14- Middle channel, Modulation: QPSK, Bandwidth: 10MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1578.44	-43.23	-40	-3.23	-46.89	3.77	7.43	Horizontal	Pass
2367.66	-52.29	-13	-39.29	-54.62	4.75	7.08	Horizontal	Pass
3156.88	-53.55	-13	-40.55	-56.13	5.72	8.3	Horizontal	Pass
1578.44	-43.42	-40	-3.42	-47.08	3.77	7.43	Vertical	Pass
2367.66	-59.35	-13	-46.35	-61.68	4.75	7.08	Vertical	Pass
3156.88	-54.19	-13	-41.19	-56.77	5.72	8.3	Vertical	Pass



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FDD LTE Band19-Middle channel, Modulation: QPSK, Bandwidth: 15MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1662.94	-37.48	-13	-24.48	-41.14	3.77	7.43	Horizontal	Pass
2494.41	-53.93	-13	-40.93	-56.26	4.75	7.08	Horizontal	Pass
3325.88	-60.68	-13	-47.68	-63.26	5.72	8.3	Horizontal	Pass
1662.94	-47.68	-13	-34.68	-51.34	3.77	7.43	Vertical	Pass
2494.41	-59.34	-13	-46.34	-61.67	4.75	7.08	Vertical	Pass
3325.88	-59.72	-13	-46.72	-62.3	5.72	8.3	Vertical	Pass



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FDD LTE Band25-Low channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3703.8	-50.43	-13	-37.43	-52.65	6.99	9.21	Horizontal	Pass
5555.7	-52.52	-13	-39.52	-54.84	8.27	10.59	Horizontal	Pass
7407.6	-49.41	-13	-36.41	-52.95	8.19	11.73	Horizontal	Pass
3703.8	-51.59	-13	-38.59	-53.81	6.99	9.21	Vertical	Pass
5555.7	-52.2	-13	-39.2	-54.52	8.27	10.59	Vertical	Pass
7407.6	-49.77	-13	-36.77	-53.31	8.19	11.73	Vertical	Pass

FDD LTE Band25-Middle channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3748.8	-48.97	-13	-35.97	-51.19	6.99	9.21	Horizontal	Pass
5623.2	-52.34	-13	-39.34	-54.66	8.27	10.59	Horizontal	Pass
7497.6	-49.79	-13	-36.79	-53.33	8.19	11.73	Horizontal	Pass
3748.8	-50.76	-13	-37.76	-52.98	6.99	9.21	Vertical	Pass
5623.2	-52.82	-13	-39.82	-55.14	8.27	10.59	Vertical	Pass
7497.6	-49.45	-13	-36.45	-52.99	8.19	11.73	Vertical	Pass

FDD LTE Band25-High channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3826.2	-48.9	-13	-35.9	-51.12	6.99	9.21	Horizontal	Pass
5739.3	-52.85	-13	-39.85	-55.17	8.27	10.59	Horizontal	Pass
7652.4	-50.44	-13	-37.44	-54.27	8.43	12.26	Horizontal	Pass
3826.2	-50.77	-13	-37.77	-52.99	6.99	9.21	Vertical	Pass
5739.3	-52.45	-13	-39.45	-54.77	8.27	10.59	Vertical	Pass
7652.4	-49.11	-13	-36.11	-52.94	8.43	12.26	Vertical	Pass



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Shenzhen Branch

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FDD LTE Band26-Low channel, Modulation: QPSK, Bandwidth: 15MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1630.94	-36.69	-13	-23.69	-40.35	3.77	7.43	Horizontal	Pass
2446.41	-47.62	-13	-34.62	-49.95	4.75	7.08	Horizontal	Pass
3261.88	-55.16	-13	-42.16	-57.74	5.72	8.3	Horizontal	Pass
1630.94	-41.89	-13	-28.89	-45.55	3.77	7.43	Vertical	Pass
2446.41	-50.65	-13	-37.65	-52.98	4.75	7.08	Vertical	Pass
3261.88	-55.17	-13	-42.17	-57.75	5.72	8.3	Vertical	Pass

FDD LTE Band26-Middle channel, Modulation: QPSK, Bandwidth: 15MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1650.94	-37.81	-13	-24.81	-41.47	3.77	7.43	Horizontal	Pass
2476.41	-48.13	-13	-35.13	-50.46	4.75	7.08	Horizontal	Pass
3301.88	-53.82	-13	-40.82	-56.4	5.72	8.3	Horizontal	Pass
1650.94	-39.81	-13	-26.81	-43.47	3.77	7.43	Vertical	Pass
2476.41	-50.87	-13	-37.87	-53.2	4.75	7.08	Vertical	Pass
3301.88	-55.17	-13	-42.17	-57.75	5.72	8.3	Vertical	Pass

FDD LTE Band26-High channel, Modulation: QPSK, Bandwidth: 15MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1695.06	-36.93	-13	-23.93	-40.59	3.77	7.43	Horizontal	Pass
2542.59	-47.34	-13	-34.34	-49.81	5.13	7.6	Horizontal	Pass
3390.12	-54.52	-13	-41.52	-57.1	5.72	8.3	Horizontal	Pass
1695.06	-39.76	-13	-26.76	-43.42	3.77	7.43	Vertical	Pass
2542.59	-47.66	-13	-34.66	-50.13	5.13	7.6	Vertical	Pass
3390.12	-54.01	-13	-41.01	-56.59	5.72	8.3	Vertical	Pass



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Shenzhen Branch

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 中国·深圳·宝安区福永街道凤塘大道鑫龙科技园福永实验室 邮编: 518103 t (86-755) 88663988 f (86-755) 26710594 sgs.china@sgs.com

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FDD LTE Band66-Low channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3423.8	-56.3	-13	-43.3	-58.88	5.72	8.3	Horizontal	Pass
5135.7	-51.63	-13	-38.63	-53.63	8.3	10.3	Horizontal	Pass
6847.6	-50.86	-13	-37.86	-54.41	7.7	11.25	Horizontal	Pass
3423.8	-55.38	-13	-42.38	-57.96	5.72	8.3	Vertical	Pass
5135.7	-52.22	-13	-39.22	-54.22	8.3	10.3	Vertical	Pass
6847.6	-50.81	-13	-37.81	-54.36	7.7	11.25	Vertical	Pass

FDD LTE Band66-Middle channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3473.8	-55.52	-13	-42.52	-58.1	5.72	8.3	Horizontal	Pass
5210.7	-51.76	-13	-38.76	-53.76	8.3	10.3	Horizontal	Pass
6947.6	-50.37	-13	-37.37	-53.92	7.7	11.25	Horizontal	Pass
3473.8	-55.22	-13	-42.22	-57.8	5.72	8.3	Vertical	Pass
5210.7	-52.87	-13	-39.87	-54.87	8.3	10.3	Vertical	Pass
6947.6	-51.29	-13	-38.29	-54.84	7.7	11.25	Vertical	Pass

FDD LTE Band66-High channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3556.2	-56.44	-13	-43.44	-58.66	6.99	9.21	Horizontal	Pass
5334.3	-52.36	-13	-39.36	-54.36	8.3	10.3	Horizontal	Pass
7112.4	-51.17	-13	-38.17	-54.71	8.19	11.73	Horizontal	Pass
3556.2	-56.12	-13	-43.12	-58.34	6.99	9.21	Vertical	Pass
5334.3	-51.84	-13	-38.84	-53.84	8.3	10.3	Vertical	Pass
7112.4	-49.68	-13	-36.68	-53.22	8.19	11.73	Vertical	Pass



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Shenzhen Branch

Fuyong lab, Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China 518103 t (86-755) 88663988 f (86-755) 26710594 www.sgs.com.cn
 中国·深圳·宝安区福永街道凤塘大道鑫龙科技园福永实验室 邮编: 518103 t (86-755) 88663988 f (86-755) 26710594 sgs.china@sgs.com

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FDD LTE Band85-Low channel, Modulation: QPSK, Bandwidth: 10MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1398.44	-57.61	-13	-44.61	-60.14	2.64	5.17	Horizontal	Pass
2097.66	-59.68	-13	-46.68	-62.01	4.75	7.08	Horizontal	Pass
2796.88	-54.64	-13	-41.64	-57.11	5.13	7.6	Horizontal	Pass
1398.44	-59.31	-13	-46.31	-61.84	2.64	5.17	Vertical	Pass
2097.66	-59.91	-13	-46.91	-62.24	4.75	7.08	Vertical	Pass
2796.88	-55.73	-13	-42.73	-58.2	5.13	7.6	Vertical	Pass

FDD LTE Band85-Middle channel, Modulation: QPSK, Bandwidth: 10MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1406.44	-59.18	-13	-46.18	-61.71	2.64	5.17	Horizontal	Pass
2109.66	-58.69	-13	-45.69	-61.02	4.75	7.08	Horizontal	Pass
2812.88	-55.18	-13	-42.18	-57.65	5.13	7.6	Horizontal	Pass
1406.44	-59.88	-13	-46.88	-62.41	2.64	5.17	Vertical	Pass
2109.66	-59.06	-13	-46.06	-61.39	4.75	7.08	Vertical	Pass
2812.88	-56.07	-13	-43.07	-58.54	5.13	7.6	Vertical	Pass

FDD LTE Band85-High channel, Modulation: QPSK, Bandwidth: 10MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1429.56	-59.45	-13	-46.45	-61.98	2.64	5.17	Horizontal	Pass
2144.34	-58.39	-13	-45.39	-60.72	4.75	7.08	Horizontal	Pass
2859.12	-55.17	-13	-42.17	-57.64	5.13	7.6	Horizontal	Pass
1429.56	-60.43	-13	-47.43	-62.96	2.64	5.17	Vertical	Pass
2144.34	-58.8	-13	-45.8	-61.13	4.75	7.08	Vertical	Pass
2859.12	-55.58	-13	-42.58	-58.05	5.13	7.6	Vertical	Pass



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Shenzhen Branch

Fuyong lab, Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China 518103 t (86-755) 88663988 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·宝安区福永街道凤塘大道鑫龙科技园福永实验室 邮编: 518103 t (86-755) 88663988 f (86-755) 26710594 sgs.china@sgs.com

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FDD LTE Band2-Low channel, Modulation: QPSK, SCS: 15KHz, 1@0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3700.2	-54.77	-13	-41.77	-56.99	6.99	9.21	Horizontal	Pass
5550.3	-51.68	-13	-38.68	-54	8.27	10.59	Horizontal	Pass
7400.4	-48.22	-13	-35.22	-51.76	8.19	11.73	Horizontal	Pass
3700.2	-55.07	-13	-42.07	-57.29	6.99	9.21	Vertical	Pass
5550.3	-51.33	-13	-38.33	-53.65	8.27	10.59	Vertical	Pass
7400.4	-49.06	-13	-36.06	-52.6	8.19	11.73	Vertical	Pass

FDD LTE Band2-Middle channel, Modulation: QPSK, SCS: 15KHz, 1@0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3760	-54.61	-13	-41.61	-56.83	6.99	9.21	Horizontal	Pass
5640	-52.28	-13	-39.28	-54.6	8.27	10.59	Horizontal	Pass
7520	-47.79	-13	-34.79	-51.62	8.43	12.26	Horizontal	Pass
3760	-54.42	-13	-41.42	-56.64	6.99	9.21	Vertical	Pass
5640	-52.33	-13	-39.33	-54.65	8.27	10.59	Vertical	Pass
7520	-48.89	-13	-35.89	-52.72	8.43	12.26	Vertical	Pass

FDD LTE Band2-High channel, Modulation: QPSK, SCS: 15KHz, 1@0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3819.8	-55.6	-13	-42.6	-57.82	6.99	9.21	Horizontal	Pass
5729.7	-52.23	-13	-39.23	-54.55	8.27	10.59	Horizontal	Pass
7639.6	-50.2	-13	-37.2	-54.03	8.43	12.26	Horizontal	Pass
3819.8	-54.81	-13	-41.81	-57.03	6.99	9.21	Vertical	Pass
5729.7	-52.49	-13	-39.49	-54.81	8.27	10.59	Vertical	Pass
7639.6	-49.98	-13	-36.98	-53.81	8.43	12.26	Vertical	Pass



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FDD LTE Band4-Low channel, Modulation: QPSK, SCS: 15KHz, 1@0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3420.2	-56.53	-13	-43.53	-59.11	5.72	8.3	Horizontal	Pass
5130.3	-51.58	-13	-38.58	-53.58	8.3	10.3	Horizontal	Pass
6840.4	-51.19	-13	-38.19	-54.74	7.7	11.25	Horizontal	Pass
3420.2	-54.75	-13	-41.75	-57.33	5.72	8.3	Vertical	Pass
5130.3	-51.24	-13	-38.24	-53.24	8.3	10.3	Vertical	Pass
6840.4	-50.69	-13	-37.69	-54.24	7.7	11.25	Vertical	Pass

FDD LTE Band4-Middle channel, Modulation: QPSK, SCS: 15KHz, 1@0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3465	-54.6	-13	-41.6	-57.18	5.72	8.3	Horizontal	Pass
5197.5	-51.75	-13	-38.75	-53.75	8.3	10.3	Horizontal	Pass
6930	-50.68	-13	-37.68	-54.23	7.7	11.25	Horizontal	Pass
3465	-55.54	-13	-42.54	-58.12	5.72	8.3	Vertical	Pass
5197.5	-52.21	-13	-39.21	-54.21	8.3	10.3	Vertical	Pass
6930	-50.42	-13	-37.42	-53.97	7.7	11.25	Vertical	Pass

FDD LTE Band4-High channel, Modulation: QPSK, SCS: 15KHz, 1@0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3509.8	-56.28	-13	-43.28	-58.5	6.99	9.21	Horizontal	Pass
5264.7	-51.74	-13	-38.74	-53.74	8.3	10.3	Horizontal	Pass
7019.6	-50.01	-13	-37.01	-53.55	8.19	11.73	Horizontal	Pass
3509.8	-55.41	-13	-42.41	-57.63	6.99	9.21	Vertical	Pass
5264.7	-52.39	-13	-39.39	-54.39	8.3	10.3	Vertical	Pass
7019.6	-51.24	-13	-38.24	-54.78	8.19	11.73	Vertical	Pass



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Shenzhen Branch

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FDD LTE Band5-Low channel, Modulation: QPSK, SCS: 15KHz, 1@0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1648.2	-61.01	-13	-48.01	-64.67	3.77	7.43	Horizontal	Pass
2472.3	-57.34	-13	-44.34	-59.67	4.75	7.08	Horizontal	Pass
3296.4	-54.26	-13	-41.26	-56.84	5.72	8.3	Horizontal	Pass
1648.2	-60.92	-13	-47.92	-64.58	3.77	7.43	Vertical	Pass
2472.3	-53.24	-13	-40.24	-55.57	4.75	7.08	Vertical	Pass
3296.4	-52.6	-13	-39.6	-55.18	5.72	8.3	Vertical	Pass

FDD LTE Band5-Middle channel, Modulation: QPSK, SCS: 15KHz, 1@0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1673	-56.47	-13	-43.47	-60.13	3.77	7.43	Horizontal	Pass
2509.5	-56.96	-13	-43.96	-59.43	5.13	7.6	Horizontal	Pass
3346	-53.92	-13	-40.92	-56.5	5.72	8.3	Horizontal	Pass
1673	-60.78	-13	-47.78	-64.44	3.77	7.43	Vertical	Pass
2509.5	-54.94	-13	-41.94	-57.41	5.13	7.6	Vertical	Pass
3346	-54.77	-13	-41.77	-57.35	5.72	8.3	Vertical	Pass

FDD LTE Band5-High channel, Modulation: QPSK, SCS: 15KHz, 1@0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1697.8	-61.38	-13	-48.38	-65.04	3.77	7.43	Horizontal	Pass
2546.7	-56.96	-13	-43.96	-59.43	5.13	7.6	Horizontal	Pass
3395.6	-54.07	-13	-41.07	-56.65	5.72	8.3	Horizontal	Pass
1697.8	-60.37	-13	-47.37	-64.03	3.77	7.43	Vertical	Pass
2546.7	-56.23	-13	-43.23	-58.7	5.13	7.6	Vertical	Pass
3395.6	-53.74	-13	-40.74	-56.32	5.72	8.3	Vertical	Pass



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Shenzhen Branch

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FDD LTE Band12-Low channel, Modulation: QPSK, SCS: 15KHz, 1@0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1398.2	-59.79	-13	-46.79	-62.32	2.64	5.17	Horizontal	Pass
2097.3	-59.85	-13	-46.85	-62.18	4.75	7.08	Horizontal	Pass
2796.4	-55.88	-13	-42.88	-58.35	5.13	7.6	Horizontal	Pass
1398.2	-61.01	-13	-48.01	-63.54	2.64	5.17	Vertical	Pass
2097.3	-59.53	-13	-46.53	-61.86	4.75	7.08	Vertical	Pass
2796.4	-55.79	-13	-42.79	-58.26	5.13	7.6	Vertical	Pass

FDD LTE Band12-Middle channel, Modulation: QPSK, SCS: 15KHz, 1@0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1415	-60.29	-13	-47.29	-62.82	2.64	5.17	Horizontal	Pass
2122.5	-60.14	-13	-47.14	-62.47	4.75	7.08	Horizontal	Pass
2830	-56.07	-13	-43.07	-58.54	5.13	7.6	Horizontal	Pass
1415	-60.43	-13	-47.43	-62.96	2.64	5.17	Vertical	Pass
2122.5	-59.32	-13	-46.32	-61.65	4.75	7.08	Vertical	Pass
2830	-55.81	-13	-42.81	-58.28	5.13	7.6	Vertical	Pass

FDD LTE Band12-High channel, Modulation: QPSK, SCS: 15KHz, 1@0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1431.8	-59.83	-13	-46.83	-62.36	2.64	5.17	Horizontal	Pass
2147.7	-58.93	-13	-45.93	-61.26	4.75	7.08	Horizontal	Pass
2863.6	-56.2	-13	-43.2	-58.67	5.13	7.6	Horizontal	Pass
1431.8	-61.22	-13	-48.22	-63.75	2.64	5.17	Vertical	Pass
2147.7	-59	-13	-46	-61.33	4.75	7.08	Vertical	Pass
2863.6	-54.84	-13	-41.84	-57.31	5.13	7.6	Vertical	Pass



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 Shenzhen Branch

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 中国·深圳·宝安区福永街道凤塘大道鑫龙科技园福永实验室 邮编: 518103 t (86-755) 88663988 f (86-755) 26710594 sgs.china@sgs.com

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FDD LTE Band13-Low channel, Modulation: QPSK, SCS: 15KHz, 1@0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1554.2	-62.38	-13	-49.38	-66.04	3.77	7.43	Horizontal	Pass
2331.3	-59.19	-13	-46.19	-61.52	4.75	7.08	Horizontal	Pass
3108.4	-54.26	-13	-41.26	-56.84	5.72	8.3	Horizontal	Pass
1554.2	-61.35	-13	-48.35	-65.01	3.77	7.43	Vertical	Pass
2331.3	-58.95	-13	-45.95	-61.28	4.75	7.08	Vertical	Pass
3108.4	-54.58	-13	-41.58	-57.16	5.72	8.3	Vertical	Pass

FDD LTE Band13-Middle channel, Modulation: QPSK, SCS: 15KHz, 1@0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1564	-61.92	-40	-21.92	-65.58	3.77	7.43	Horizontal	Pass
2346	-59.53	-13	-46.53	-61.86	4.75	7.08	Horizontal	Pass
3128	-54.42	-13	-41.42	-57	5.72	8.3	Horizontal	Pass
1564	-62.46	-40	-22.46	-66.12	3.77	7.43	Vertical	Pass
2346	-59.64	-13	-46.64	-61.97	4.75	7.08	Vertical	Pass
3128	-54.73	-13	-41.73	-57.31	5.72	8.3	Vertical	Pass

FDD LTE Band13-High channel, Modulation: QPSK, SCS: 15KHz, 1@0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1573.8	-62.18	-40	-22.18	-65.84	3.77	7.43	Horizontal	Pass
2360.7	-59.68	-13	-46.68	-62.01	4.75	7.08	Horizontal	Pass
3147.6	-53.91	-13	-40.91	-56.49	5.72	8.3	Horizontal	Pass
1573.8	-61.44	-40	-21.44	-65.1	3.77	7.43	Vertical	Pass
2360.7	-59.62	-13	-46.62	-61.95	4.75	7.08	Vertical	Pass
3147.6	-55.36	-13	-42.36	-57.94	5.72	8.3	Vertical	Pass



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Shenzhen Branch

Fuyong lab, Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China 518103 t (86-755) 88663988 f (86-755) 26710594 www.sgs.com.cn
 中国·深圳·宝安区福永街道凤塘大道鑫龙科技园福永实验室 邮编: 518103 t (86-755) 88663988 f (86-755) 26710594 sgs.china@sgs.com

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FDD LTE Band19-Low channel, Modulation: QPSK, SCS: 15KHz, 1@0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1660.2	-65.85	-13	-52.85	-69.51	3.77	7.43	Horizontal	Pass
2490.3	-63.7	-13	-50.7	-66.03	4.75	7.08	Horizontal	Pass
3320.4	-60.23	-13	-47.23	-62.81	5.72	8.3	Horizontal	Pass
1660.2	-66.6	-13	-53.6	-70.26	3.77	7.43	Vertical	Pass
2490.3	-62.03	-13	-49.03	-64.36	4.75	7.08	Vertical	Pass
3320.4	-61.31	-13	-48.31	-63.89	5.72	8.3	Vertical	Pass

FDD LTE Band19-Middle channel, Modulation: QPSK, SCS: 15KHz, 1@0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1675	-61.63	-13	-48.63	-65.29	3.77	7.43	Horizontal	Pass
2512.5	-63.71	-13	-50.71	-66.04	4.75	7.08	Horizontal	Pass
3350	-61.34	-13	-48.34	-63.92	5.72	8.3	Horizontal	Pass
1675	-65.26	-13	-52.26	-68.92	3.77	7.43	Vertical	Pass
2512.5	-61.17	-13	-48.17	-63.5	4.75	7.08	Vertical	Pass
3350	-60.26	-13	-47.26	-62.84	5.72	8.3	Vertical	Pass

FDD LTE Band19-High channel, Modulation: QPSK, SCS: 15KHz, 1@0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1689.8	-60.81	-13	-47.81	-64.47	3.77	7.43	Horizontal	Pass
2534.7	-63.44	-13	-50.44	-65.91	5.13	7.6	Horizontal	Pass
3379.6	-60.78	-13	-47.78	-63.36	5.72	8.3	Horizontal	Pass
1689.8	-66.47	-13	-53.47	-70.13	3.77	7.43	Vertical	Pass
2534.7	-61.31	-13	-48.31	-63.78	5.13	7.6	Vertical	Pass
3379.6	-60.56	-13	-47.56	-63.14	5.72	8.3	Vertical	Pass



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Shenzhen Branch

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 中国·深圳·宝安区福永街道凤塘大道鑫龙科技园福永实验室 邮编: 518103 t (86-755) 88663988 f (86-755) 26710594 sgs.china@sgs.com

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FDD LTE Band25-Low channel, Modulation: QPSK, SCS: 15KHz, 1@0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3700.2	-55.49	-13	-42.49	-57.71	6.99	9.21	Horizontal	Pass
5550.3	-52.33	-13	-39.33	-54.65	8.27	10.59	Horizontal	Pass
7400.4	-49.25	-13	-36.25	-52.79	8.19	11.73	Horizontal	Pass
3700.2	-55.05	-13	-42.05	-57.27	6.99	9.21	Vertical	Pass
5550.3	-51.86	-13	-38.86	-54.18	8.27	10.59	Vertical	Pass
7400.4	-48.71	-13	-35.71	-52.25	8.19	11.73	Vertical	Pass

FDD LTE Band25-Middle channel, Modulation: QPSK, SCS: 15KHz, 1@0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3765	-54.18	-13	-41.18	-56.4	6.99	9.21	Horizontal	Pass
5647.5	-52.58	-13	-39.58	-54.9	8.27	10.59	Horizontal	Pass
7530	-47.24	-13	-34.24	-51.07	8.43	12.26	Horizontal	Pass
3765	-55.05	-13	-42.05	-57.27	6.99	9.21	Vertical	Pass
5647.5	-52.28	-13	-39.28	-54.6	8.27	10.59	Vertical	Pass
7530	-49.4	-13	-36.4	-53.23	8.43	12.26	Vertical	Pass

FDD LTE Band25-High channel, Modulation: QPSK, SCS: 15KHz, 1@0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3829.8	-54.37	-13	-41.37	-56.59	6.99	9.21	Horizontal	Pass
5744.7	-52.06	-13	-39.06	-54.38	8.27	10.59	Horizontal	Pass
7659.6	-49.61	-13	-36.61	-53.44	8.43	12.26	Horizontal	Pass
3829.8	-55.98	-13	-42.98	-58.2	6.99	9.21	Vertical	Pass
5744.7	-51.25	-13	-38.25	-53.57	8.27	10.59	Vertical	Pass
7659.6	-50.5	-13	-37.5	-54.33	8.43	12.26	Vertical	Pass



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Shenzhen Branch

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FDD LTE Band26-Low channel, Modulation: QPSK, SCS: 15KHz, 1@0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1628.2	-61.39	-13	-48.39	-65.05	3.77	7.43	Horizontal	Pass
2442.3	-50.76	-13	-37.76	-53.09	4.75	7.08	Horizontal	Pass
3256.4	-53.91	-13	-40.91	-56.49	5.72	8.3	Horizontal	Pass
1628.2	-62.58	-13	-49.58	-66.24	3.77	7.43	Vertical	Pass
2442.3	-58.03	-13	-45.03	-60.36	4.75	7.08	Vertical	Pass
3256.4	-53.92	-13	-40.92	-56.5	5.72	8.3	Vertical	Pass

FDD LTE Band26-Middle channel, Modulation: QPSK, SCS: 15KHz, 1@0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1663	-56.54	-13	-43.54	-60.2	3.77	7.43	Horizontal	Pass
2494.5	-57.02	-13	-44.02	-59.35	4.75	7.08	Horizontal	Pass
3326	-53.72	-13	-40.72	-56.3	5.72	8.3	Horizontal	Pass
1663	-60.8	-13	-47.8	-64.46	3.77	7.43	Vertical	Pass
2494.5	-56.24	-13	-43.24	-58.57	4.75	7.08	Vertical	Pass
3326	-53.82	-13	-40.82	-56.4	5.72	8.3	Vertical	Pass

FDD LTE Band26-High channel, Modulation: QPSK, SCS: 15KHz, 1@0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1697.8	-61.02	-13	-48.02	-64.68	3.77	7.43	Horizontal	Pass
2546.7	-56.35	-13	-43.35	-58.82	5.13	7.6	Horizontal	Pass
3395.6	-54.46	-13	-41.46	-57.04	5.72	8.3	Horizontal	Pass
1697.8	-60.64	-13	-47.64	-64.3	3.77	7.43	Vertical	Pass
2546.7	-57.51	-13	-44.51	-59.98	5.13	7.6	Vertical	Pass
3395.6	-53.28	-13	-40.28	-55.86	5.72	8.3	Vertical	Pass



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 Shenzhen Branch

Fuyong lab, Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China 518103 t (86-755) 88663988 f (86-755) 26710594 www.sgs.com.cn
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FDD LTE Band66-Low channel, Modulation: QPSK, SCS: 15KHz, 1@0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3420.2	-56.01	-13	-43.01	-58.59	5.72	8.3	Horizontal	Pass
5130.3	-52.03	-13	-39.03	-54.03	8.3	10.3	Horizontal	Pass
6840.4	-51.46	-13	-38.46	-55.01	7.7	11.25	Horizontal	Pass
3420.2	-55.23	-13	-42.23	-57.81	5.72	8.3	Vertical	Pass
5130.3	-52.68	-13	-39.68	-54.68	8.3	10.3	Vertical	Pass
6840.4	-50.54	-13	-37.54	-54.09	7.7	11.25	Vertical	Pass

FDD LTE Band66-Middle channel, Modulation: QPSK, SCS: 15KHz, 1@0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3490	-55.37	-13	-42.37	-57.95	5.72	8.3	Horizontal	Pass
5235	-52.06	-13	-39.06	-54.06	8.3	10.3	Horizontal	Pass
6980	-51.49	-13	-38.49	-55.04	7.7	11.25	Horizontal	Pass
3490	-55.54	-13	-42.54	-58.12	5.72	8.3	Vertical	Pass
5235	-52.59	-13	-39.59	-54.59	8.3	10.3	Vertical	Pass
6980	-51.65	-13	-38.65	-55.2	7.7	11.25	Vertical	Pass

FDD LTE Band66-High channel, Modulation: QPSK, SCS: 15KHz, 1@0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3559.8	-55.41	-13	-42.41	-57.63	6.99	9.21	Horizontal	Pass
5339.7	-52.14	-13	-39.14	-54.14	8.3	10.3	Horizontal	Pass
7119.6	-50.26	-13	-37.26	-53.8	8.19	11.73	Horizontal	Pass
3559.8	-56.17	-13	-43.17	-58.39	6.99	9.21	Vertical	Pass
5339.7	-52.54	-13	-39.54	-54.54	8.3	10.3	Vertical	Pass
7119.6	-50.19	-13	-37.19	-53.73	8.19	11.73	Vertical	Pass



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Compliance Certification Services (Kunshan) Inc.
Shenzhen Branch

Fuyong lab, Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China 518103 t (86-755) 88663988 f (86-755) 26710594 www.sgs.com.cn
 中国·深圳·宝安区福永街道凤塘大道鑫龙科技园福永实验室 邮编: 518103 t (86-755) 88663988 f (86-755) 26710594 sgs.china@sgs.com

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FDD LTE Band85-Low channel, Modulation: QPSK, SCS: 15KHz, 1@0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1396.2	-60.13	-13	-47.13	-62.66	2.64	5.17	Horizontal	Pass
2094.3	-59.11	-13	-46.11	-61.44	4.75	7.08	Horizontal	Pass
2792.4	-55.65	-13	-42.65	-58.12	5.13	7.6	Horizontal	Pass
1396.2	-58.73	-13	-45.73	-61.26	2.64	5.17	Vertical	Pass
2094.3	-58.96	-13	-45.96	-61.29	4.75	7.08	Vertical	Pass
2792.4	-56.14	-13	-43.14	-58.61	5.13	7.6	Vertical	Pass

FDD LTE Band85-Middle channel, Modulation: QPSK, SCS: 15KHz, 1@0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1414	-60.07	-13	-47.07	-62.6	2.64	5.17	Horizontal	Pass
2121	-58.43	-13	-45.43	-60.76	4.75	7.08	Horizontal	Pass
2828	-55.71	-13	-42.71	-58.18	5.13	7.6	Horizontal	Pass
1414	-59.87	-13	-46.87	-62.4	2.64	5.17	Vertical	Pass
2121	-59.54	-13	-46.54	-61.87	4.75	7.08	Vertical	Pass
2828	-55.27	-13	-42.27	-57.74	5.13	7.6	Vertical	Pass

FDD LTE Band85-High channel, Modulation: QPSK, SCS: 15KHz, 1@0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1431.8	-60.28	-13	-47.28	-62.81	2.64	5.17	Horizontal	Pass
2147.7	-59.03	-13	-46.03	-61.36	4.75	7.08	Horizontal	Pass
2863.6	-54.73	-13	-41.73	-57.2	5.13	7.6	Horizontal	Pass
1431.8	-60	-13	-47	-62.53	2.64	5.17	Vertical	Pass
2147.7	-59.03	-13	-46.03	-61.36	4.75	7.08	Vertical	Pass
2863.6	-55.78	-13	-42.78	-58.25	5.13	7.6	Vertical	Pass

Note: All modes have been tested and we found QPSK test mode has the worst test result. Only record the worst test result.



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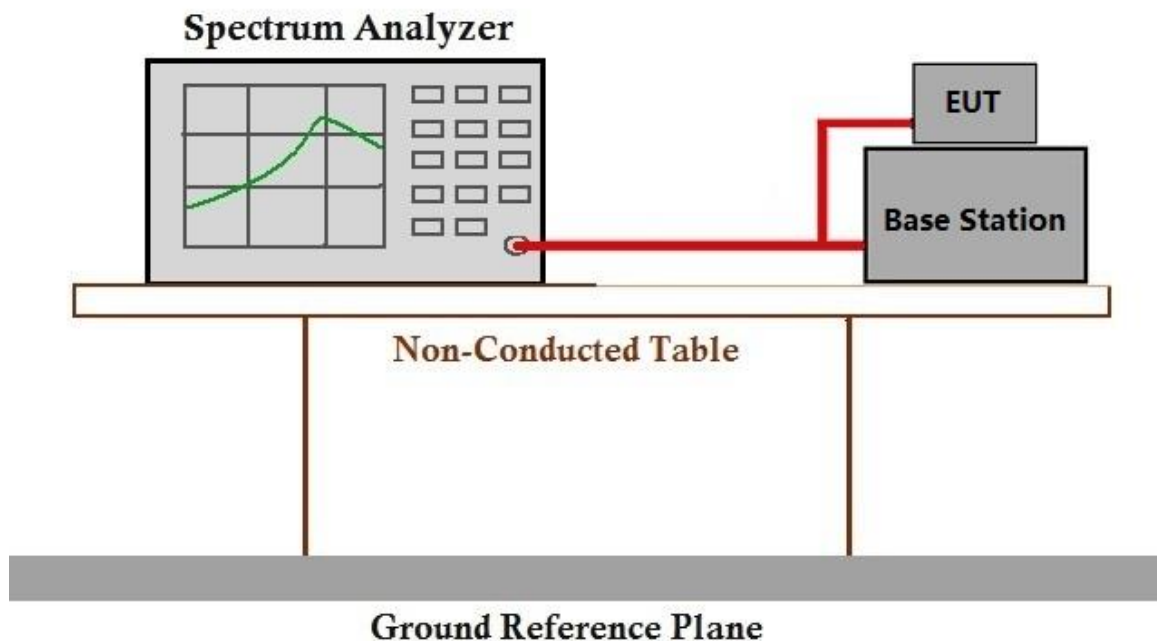
6.7 Frequency stability

Test Requirement: §2.1055, §22.355, §24.235, §27.54, §90.213
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
 Limit: $\leq \pm 2.5\text{ppm}$.

6.7.1 E.U.T. Operation

Operating Environment:
 Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar
 Test mode 30: Tx mode, Keep the EUT in transmitting mode.

6.7.2 Test Setup Diagram



6.7.3 Measurement Data

Please refer to Appendix for LTE Cat M & Cat NB FE test data.



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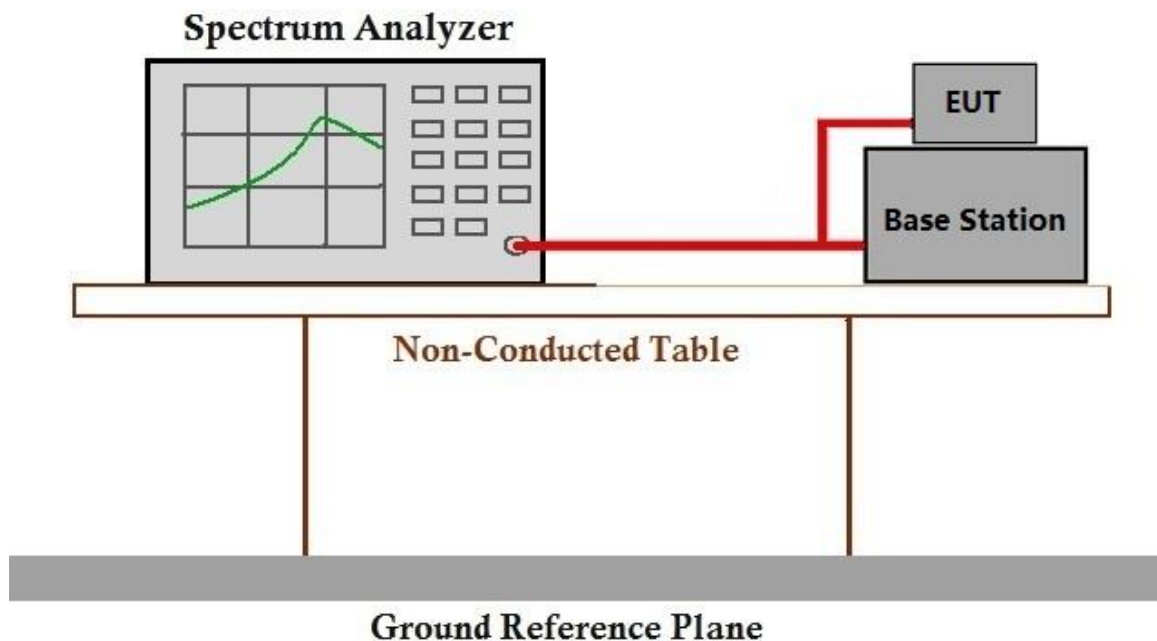
6.8 Modulation Characteristics

Test Requirement: §2.1047
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
 Limit: Digital modulation

6.8.1 E.U.T. Operation

Operating Environment:
 Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar
 Test mode 30: Tx mode, Keep the EUT in transmitting mode.

6.8.2 Test Setup Diagram



6.8.3 Measurement Data

Pass, it's a digital modulation device.



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7 Test Setup Photo

Refer to Appendix – WWAN Test Setup Photo for FYCR2211000436AT

8 EUT Construnctional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for FYCR2211000436AT

- End of the Report -



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