



FCC Test Report

Report Reference No.: HK2411207047-19E

FCC ID: 2A4FR-LS4G-6-G

Compiled by

(position+printed name+signature): Testing Engineer Len Liao

Len Liao

Supervised by

(position+printed name+signature): Technical Manager Sliver Wan

Sliver Wan

Approved by

(position+printed name+signature): Authorized Signatory Jason Zhou

Jason Zhou

Date of issue: Dec. 24, 2024

Testing Laboratory Name: Shenzhen HUAKE Testing Technology Co., Ltd.

Address: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Applicant's name: IGEN TECH CO.,Ltd.

Address: Block F4, No. 200, Linghu Avenue, Wuxi, Jiangsu, P. R. China 225400

Test specification:

Standard: FCC CFR Title 47 Part 2, Part 27

TRF Originator: Shenzhen HUAKE Testing Technology Co., Ltd.

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Test item description: Stick Logger(4G)

Trade Mark: N/A

Manufacturer: IGEN TECH CO.,Ltd.

Model/Type reference: LS4G-6-G

Series Models: LS4G-6, LS4G-6-D, LS4G-6-C, LS4G-6K-D

Modulation Type: BPSK, QPSK

Rating: DC 5~12V 4W

Hardware version: V2.0

Software version: V2.0

Result: PASS

**TEST REPORT**

Test Report No. :	HK2411207047-19E	Dec. 24, 2024
		Date of issue

Equipment under Test : Stick Logger(4G)

Model /Type : LS4G-6-G

Series Models : LS4G-6, LS4G-6-D, LS4G-6-C, LS4G-6K-D

Applicant : **IGEN TECH CO.,Ltd.**

Address : Block F4, No. 200, Linghu Avenue, Wuxi, Jiangsu, P. R.
China 225400

Manufacturer : **IGEN TECH CO.,Ltd.**

Address : Block F4, No. 200, Linghu Avenue, Wuxi, Jiangsu, P. R.
China 225400

Test result	Pass
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



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**** Modified History ****

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Dec. 24, 2024	Jason Zhou



1 Summary

1.1 Test Standards

The tests were performed according to following standards:

[FCC Part 27](#): MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES

47 CFR FCC Part 15 Subpart B: - Unintentional Radiators.

[FCC Part 2](#): FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS.

1.2 Test Description

Test Item	Section in CFR 47	Result
RF Output Power	Part 2.1046 27.50 (b)(10)	Pass
Peak-to-Average Ratio	27.50 (d)(5)	Pass
99% & -26 dB Occupied Bandwidth	Part 2.1049 Part 27.53(h)	Pass
Spurious Emissions at Antenna Terminal	Part 2.1051 Part 27.53(h)	Pass
Field Strength of Spurious Radiation	Clause 7 of KDB971168 D01 v02r02	Pass
Out of band emission, Band Edge	2.1051 27.53 (c)(2) and (5), (h)(1) and (3)(i)	Pass
Frequency stability	2.1055 27.54	Pass



1.3 Information of The Test Laboratory

Shenzhen HUAKE Testing Technology Co., Ltd.
Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping,
Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization:

A2LA Accreditation Code is 4781.01.
FCC Designation Number is CN1229.
Canada IC CAB identifier is CN0045.
CNAS Registration Number is L9589.

1.4 Statement of The Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4:Uncertainty in EMC Measurements“ and is documented in the Shenzhen HUAKE Testing Technology Co., Ltd.quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen HUAKE Testing Technology Co., Ltd.is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10dB	(1)
Radiated Emission	Above 1GHz	4.32dB	(1)
Conducted Disturbance	0.15~30MHz	3.20dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



2 General Information

2.1 General Remarks

Date of receipt of test sample	:	Nov. 20, 2024
Testing commenced on	:	Nov. 20, 2024
Testing concluded on	:	Dec. 24, 2024

2.2 Product Description

Name of EUT	Stick Logger(4G)
Model/Type reference:	LS4G-6-G
Series Models:	LS4G-6, LS4G-6-D, LS4G-6-C, LS4G-6K-D
Model Difference:	All model's the function, software and electric circuit are the same, only with model named different. Test sample model: LS4G-6-G.
Power supply:	DC 5~12V 4W
Adapter Information	N/A
Modulation Type	BPSK, QPSK
Antenna Type	Internal Antenna
Operation Frequency Band	LTE Band 85
Operation frequency	LTE Band 85: 698-716MHz
LTE Release	R8
Extreme temp. Tolerance	-30°C to +50°C
Extreme vol. Limits	4.25VDC to 5.75VDC (nominal: 5.0VDC)
Note: 1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. 2. Antenna gain Refer to the antenna specifications. 3. The cable loss data is obtained from the supplier. 4. The test results in the report only apply to the tested sample.	

2.3 Equipment Under Test

Power supply system utilised

Power supply voltage	:	<input type="radio"/> 120V/ 60 Hz	<input type="radio"/> 115V/60Hz
		<input type="radio"/> 12 V DC	<input type="radio"/> 24 V DC
		<input checked="" type="radio"/> Other (specified in blank below)	

DC 5~12V 4W

Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature:	25°C
Relative Humidity:	55 %
Air Pressure:	101 kPa



2.4 Description of Test Modes

The EUT has been tested under typical operating condition. The CMW500 used to control the EUT staying in continuous transmitting and receiving mode for testing. Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

Note:

1. For the ERP/EIRP and radiated emission test, every axis (X, Y, Z) was verified, and show the worst result on this report.
2. Test method and refer to 3GPP TS136521.



2.5 Equipments Used During The Test

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
1	L.I.S.N.	R&S	ENV216	HKE-002	2024/02/20	2025/02/19
2	L.I.S.N.	R&S	ENV216	HKE-059	2024/02/20	2025/02/19
3	EMI Test Receiver	R&S	ESR	HKE-005	2024/02/20	2025/02/19
4	Spectrum analyzer	Agilent	N9020A	HKE-117	2024/02/20	2025/02/19
5	Spectrum analyzer	R&S	FSV3044	HKE-126	2024/02/20	2025/02/19
6	Preamplifier	EMCI	EMC051845S	HKE-006	2024/02/20	2025/02/19
7	Preamplifier	Schwarzbeck	BBV 9743	HKE-016	2024/02/20	2025/02/19
8	Preamplifier	A.H. Systems	SAS-574	HKE-182	2024/02/20	2025/02/19
9	6d Attenuator	Pasternack	6db	HKE-184	2024/02/20	2025/02/19
10	EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	2024/02/20	2025/02/19
11	Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	2024/02/21	2026/02/20
12	Loop Antenna	COM-POWER	AL-130R	HKE-014	2024/02/21	2026/02/20
13	Horn Antenna	Schwarzbeck	9120D	HKE-013	2024/02/21	2026/02/20
14	EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081	/	/
15	EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	/	/
16	RF Automatic control unit	Tonscend	JS0806-1	HKE-096	2024/02/20	2025/02/19
17	High pass filter unit	Tonscend	JS0806-F	HKE-055	2024/02/20	2025/02/19
18	Wireless Communication Test Set	R&S	CMU200	HKE-026	2024/02/20	2025/02/19
19	Wireless Communication Test Set	R&S	CMW500	HKE-027	2024/02/20	2025/02/19
20	High-low temperature chamber	Guangke	HT-80L	HKE-118	2024/06/10	2025/06/09
21	Temperature and humidity meter	Boyang	HTC-1	HKE-075	2024/06/10	2025/06/09
22	RF Test Software	Tonscend	JS1120 Version 3.1.46	HKE-183	/	/
23	RSE Test Software	Tonscend	JS36-RSE 5.0.0	HKE-184	/	/

2.6 Modifications

No modifications were implemented to meet testing criteria.

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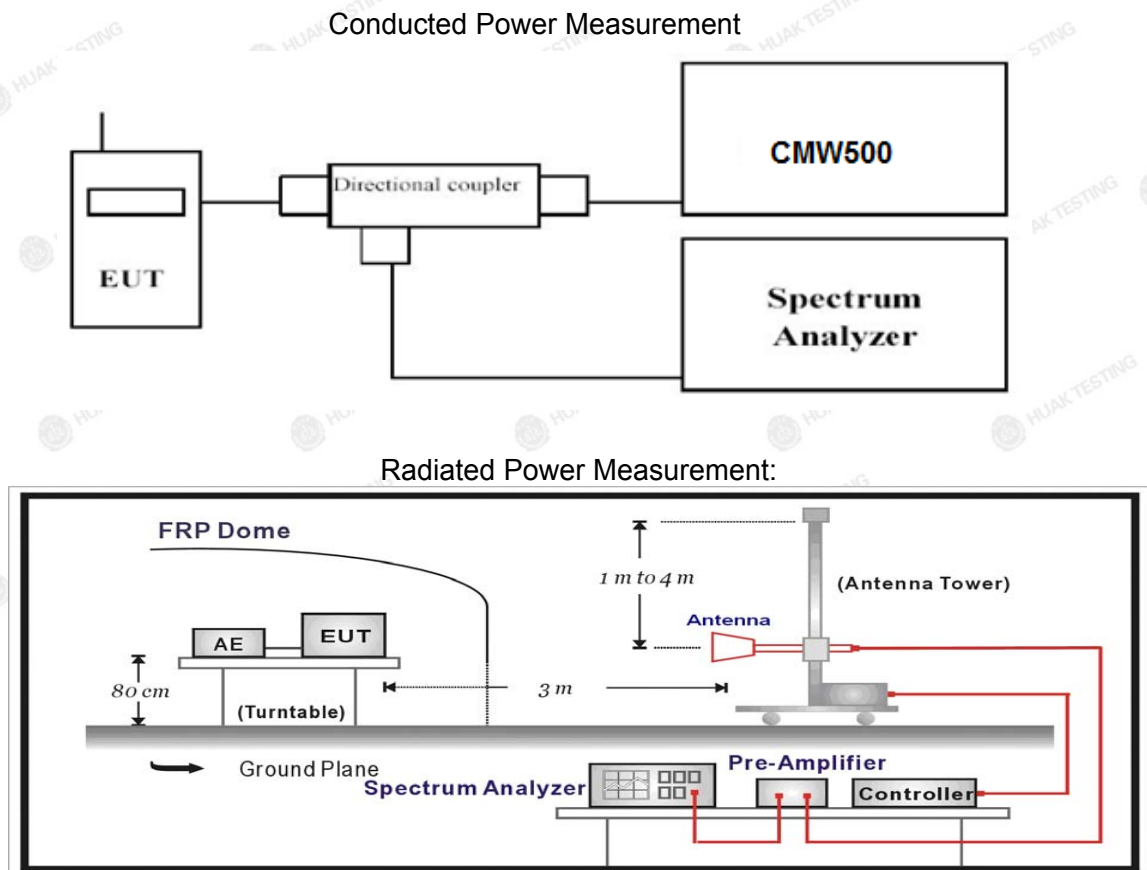
3 Test Conditions and Results

3.1 Output Power

LIMIT

According to §27.50 (b) (10): Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

TEST CONFIGURATION



TEST PROCEDURE

The EUT was setup according to EIA/TIA 603D.

Conducted Power Measurement:

- Place the EUT on a bench and set it in transmitting mode.
- Connect a low loss RF cable from the antenna port to a spectrum analyzer and CMW500 by a Directional Couple.
- EUT Communicate with CMW500, then select a channel for testing.
- Add a correction factor to the display of spectrum, and then test.

Radiated Power Measurement:

- The EUT shall be placed at the specified height on a support, and in the position closest to normal use as declared by provider.
- The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter.
- The output of the test antenna shall be connected to the measuring receiver.
- The transmitter shall be switched on and the measuring receiver shall be tuned to the frequency of the transmitter under test.



- e. The test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver.
- f. The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- g. The test antenna shall be raised and lowered again through the specified range of height until a maximum signal level is detected by the measuring receiver.
- h. The maximum signal level detected by the measuring receiver shall be noted.
- i. The transmitter shall be replaced by a substitution antenna.
- j. The substitution antenna shall be orientated for vertical polarization and the length of the substitution antenna shall be adjusted to correspond to the frequency of the transmitter.
- k. The substitution antenna shall be connected to a calibrated signal generator.
- l. If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- m. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
- n. The input signal to the 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 attenuator setting of the measuring receiver.
- o. The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.
- p. The measure of the effective radiated power is the larger of the two levels recorded at the input to the substitution antenna, corrected for gain of the substitution antenna if necessary.
- q. Test site anechoic chamber refer to ANSI C63.4.

TEST RESULTS

Conducted Measurement:

LTE FDD Band 85				
Modulation	Sub-carrier spacing (KHz)	Tones	Frequency (MHz)	Average Power [dBm]
BPSK	3.75	1@0	698.1	23.48
		1@47	698.1	23.41
		1@0	707.0	23.22
		1@47	707.0	23.21
		1@0	715.9	23.39
		1@47	715.9	23.37
	15	1@0	698.1	22.72
		1@11	698.1	22.70
		12@0	698.1	23.37
		1@0	707.0	22.80
		1@11	707.0	22.71
		12@0	707.0	23.36
		1@0	715.9	22.89
		1@11	715.9	22.86
		12@0	715.9	23.54
QPSK	3.75	1@0	698.1	23.51
		1@47	698.1	23.44
		1@0	707.0	23.31
		1@47	707.0	23.20
		1@0	715.9	23.45
		1@47	715.9	23.41



	15	1@0	698.1	22.86
		1@11	698.1	22.82
		12@0	698.1	23.38
		1@0	707.0	22.82
		1@11	707.0	23.73
		12@0	707.0	23.37
		1@0	715.9	22.02
		1@11	715.9	22.94
		12@0	715.9	23.55



3.2 Radiated Measurement

Remark:

1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 85; recorded worst case for each Channel Bandwidth of LTE FDD Band 85.
2. $EIRP = P_{Mea}(dBm) - P_{cl}(dB) + P_{Ag}(dB) + G_a(dBi)$
Margin = Limit - EIRP

LTE FDD Band 85-3.75KHz-BPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
698.1	-17.41	3.06	9.68	34.8	24.01	21.86	34.77	12.91	V
707.0	-17.26	3.17	9.68	34.8	24.05	21.9	34.77	12.87	V
715.9	-15.71	3.22	9.75	34.8	25.62	23.47	34.77	11.3	V
698.1	-17.39	3.06	9.68	34.8	24.03	21.88	34.77	12.89	H
707.0	-18.22	3.17	9.68	34.8	23.09	20.94	34.77	13.83	H
715.9	-17.19	3.22	9.75	34.8	24.14	21.99	34.77	12.78	H

LTE FDD Band 85-15KHz-BPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
698.1	-16.35	3.06	9.68	34.8	25.07	22.92	34.77	11.85	V
707.0	-17.52	3.17	9.68	34.8	23.79	21.64	34.77	13.13	V
715.9	-16.29	3.22	9.75	34.8	25.04	22.89	34.77	11.88	V
698.1	-15.21	3.06	9.68	34.8	26.21	24.06	34.77	10.71	H
707.0	-17.9	3.17	9.68	34.8	23.41	21.26	34.77	13.51	H
715.9	-18.01	3.22	9.75	34.8	23.32	21.17	34.77	13.6	H

LTE FDD Band 85-3.75KHz-QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
698.1	-17.99	3.06	9.68	34.8	23.43	21.28	34.77	13.49	V
707.0	-16.93	3.17	9.68	34.8	24.38	22.23	34.77	12.54	V
715.9	-16.3	3.22	9.75	34.8	25.03	22.88	34.77	11.89	V
698.1	-17.7	3.06	9.68	34.8	23.72	21.57	34.77	13.2	H
707.0	-18.1	3.17	9.68	34.8	23.21	21.06	34.77	13.71	H
715.9	-17.26	3.22	9.75	34.8	24.07	21.92	34.77	12.85	H

LTE FDD Band 85-15KHz-QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
698.1	-17.34	3.06	9.68	34.8	24.08	21.93	34.77	12.84	V
707.0	-17.74	3.17	9.68	34.8	23.57	21.42	34.77	13.35	V
715.9	-15.63	3.22	9.75	34.8	25.7	23.55	34.77	11.22	V
698.1	-17.54	3.06	9.68	34.8	23.88	21.73	34.77	13.04	H
707.0	-18.01	3.17	9.68	34.8	23.3	21.15	34.77	13.62	H
715.9	-17.15	3.22	9.75	34.8	24.18	22.03	34.77	12.74	H

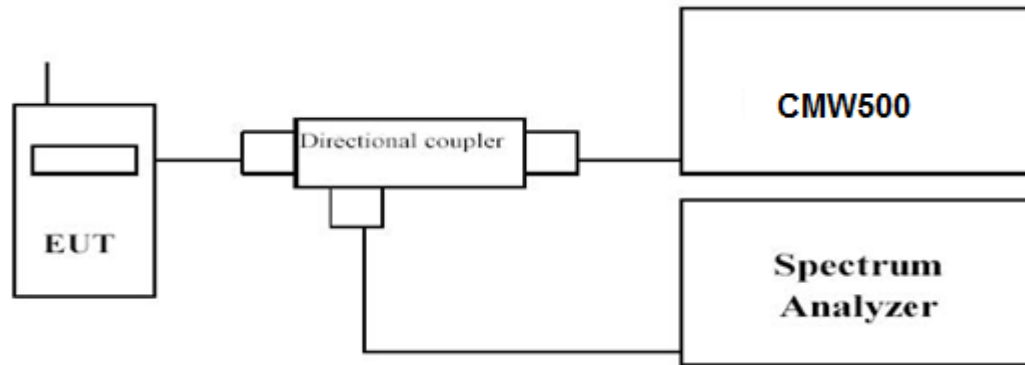


3.3 Peak-to-Average Ratio (PAR)

LIMIT

The Peak-to-Average Ratio (PAR) of the transmission may not exceed 13 dB.

TEST CONFIGURATION



TEST PROCEDURE

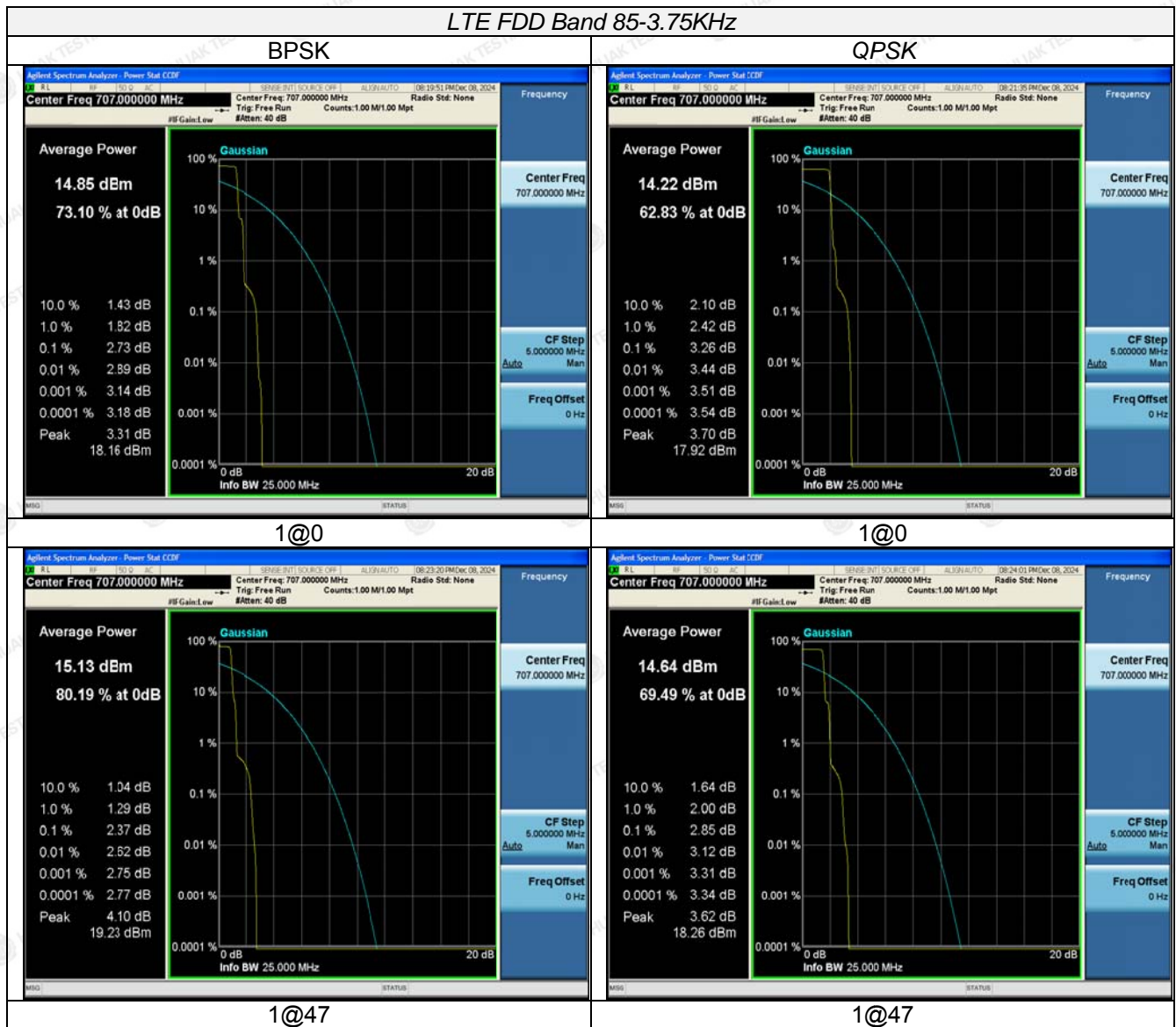
1. Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
2. Set resolution/measurement bandwidth \geq signal's occupied bandwidth;
3. Set the number of counts to a value that stabilizes the measured CCDF curve;
4. Set the measurement interval as follows:
 - 1). for continuous transmissions, set to 1 ms;
 - 2). for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
5. Record the maximum PAPR level associated with a probability of 0.1%.

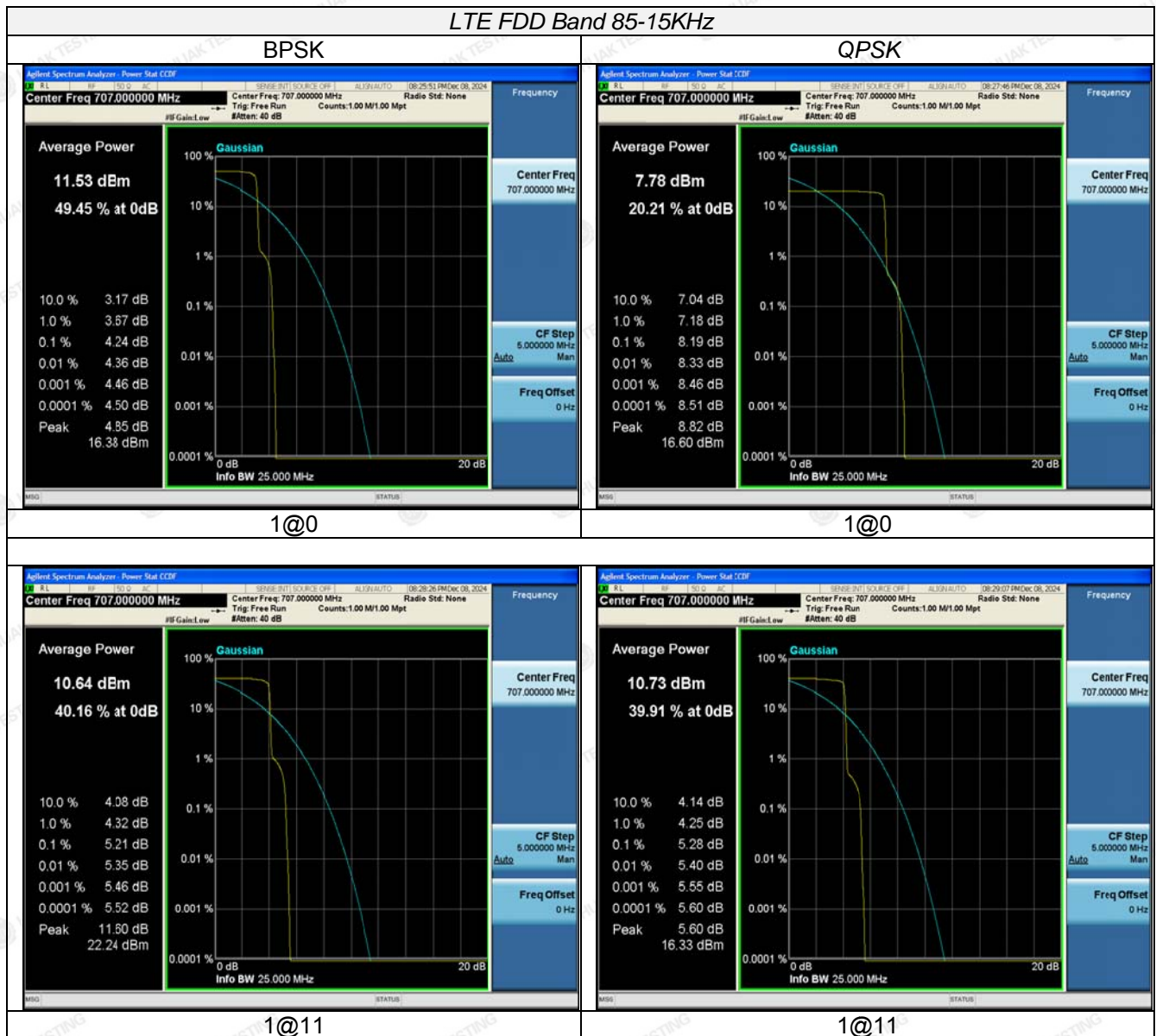
TEST RESULTS

Remark:

1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE Band 85; recorded worst case for each Channel Bandwidth of LTE Band 85.

LTE FDD Band 85				
Frequency (MHz)	Sub-carrier spacing (KHz)	Tones	Modulation PAPR (dB)	
			BPSK	QPSK
707.0	3.75	1@0	2.73	3.26
		1@47	2.37	2.85
707.0	15	1@0	4.24	8.19
		1@11	5.21	5.28





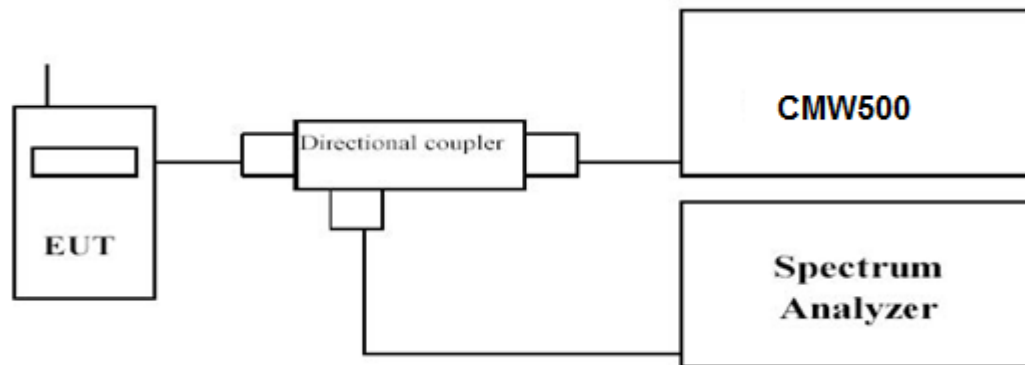


3.4 Occupied Bandwidth and Emission Bandwidth

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

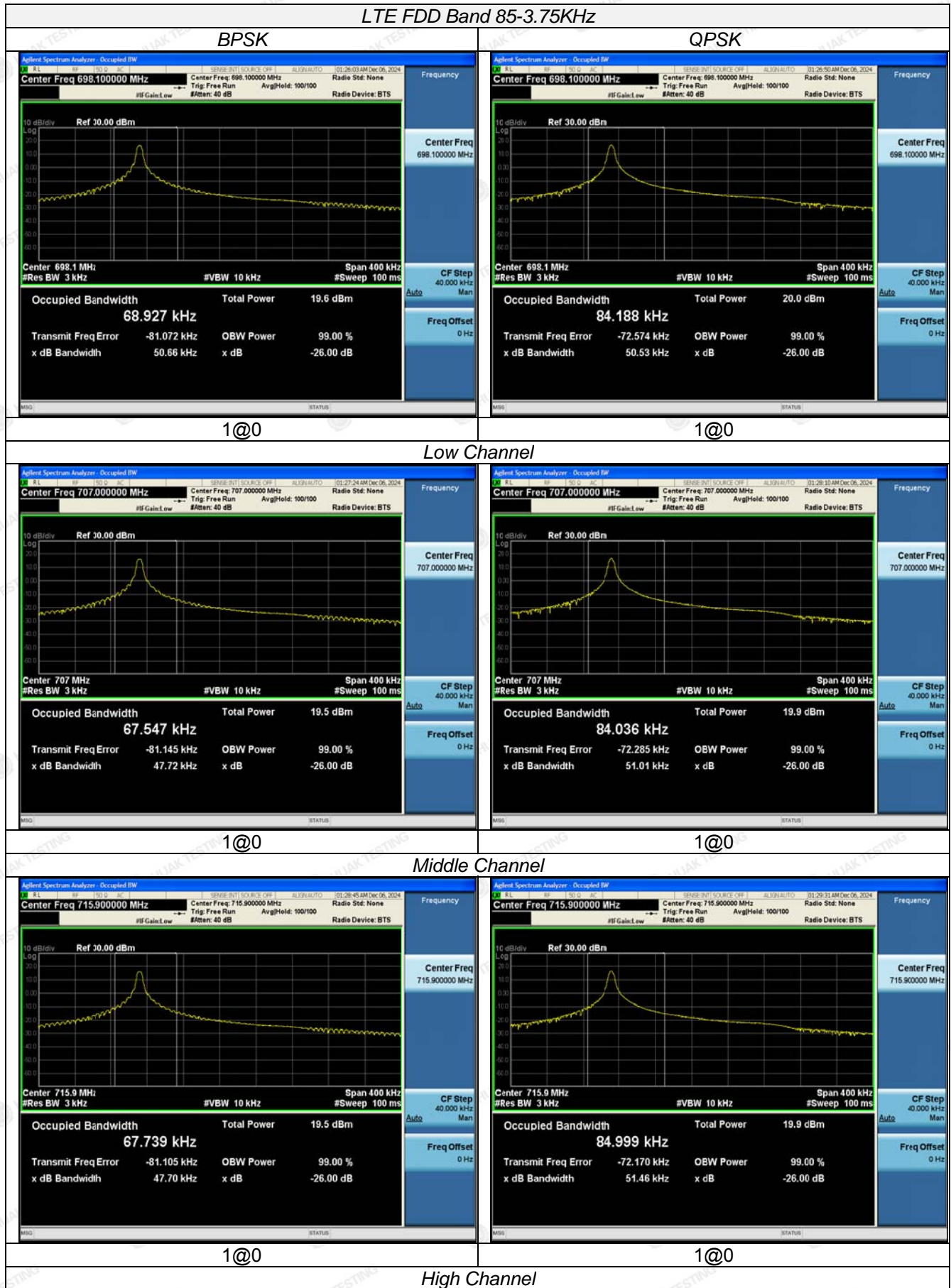
The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at low, middle and high channel in each band. The -26dBc Emission bandwidth was also measured and recorded. Set RBW was set to about 1% of emission BW, VBW \geq 3 times RBW. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

TEST RESULTS

Remark:

1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE Band 85; recorded worst case for each Channel Bandwidth of LTE Band 85.

LTE FDD Band 85						
Sub-carrier spacing (KHz)	Tones	Frequency (MHz)	-26dBc Emission bandwidth (KHz)		99% Occupied bandwidth (KHz)	
			BPSK	QPSK	BPSK	QPSK
3.75	1@0	698.1	50.66	50.53	68.927	84.188
	1@0	707.0	47.72	51.01	67.547	84.036
	1@0	715.9	47.70	51.46	67.739	84.999
15	1@0	698.1	106.5	131.0	123.69	127.66
	1@0	707.0	105.9	113.7	123.94	121.89
	1@0	715.9	106.3	127.4	123.93	129.22
	12@0	698.1	247.7	251.8	185.41	186.39
	12@0	707.0	249.1	248.8	184.42	187.54
	12@0	715.9	250.4	248.9	185.58	184.61



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LTE FDD Band 85-15KHz

BPSK



QPSK



1@0

1@0

Low Channel

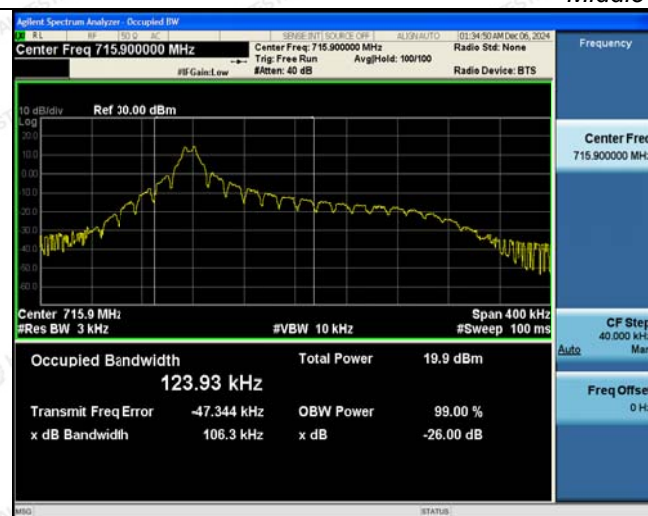


1@0



1@0

Middle Channel

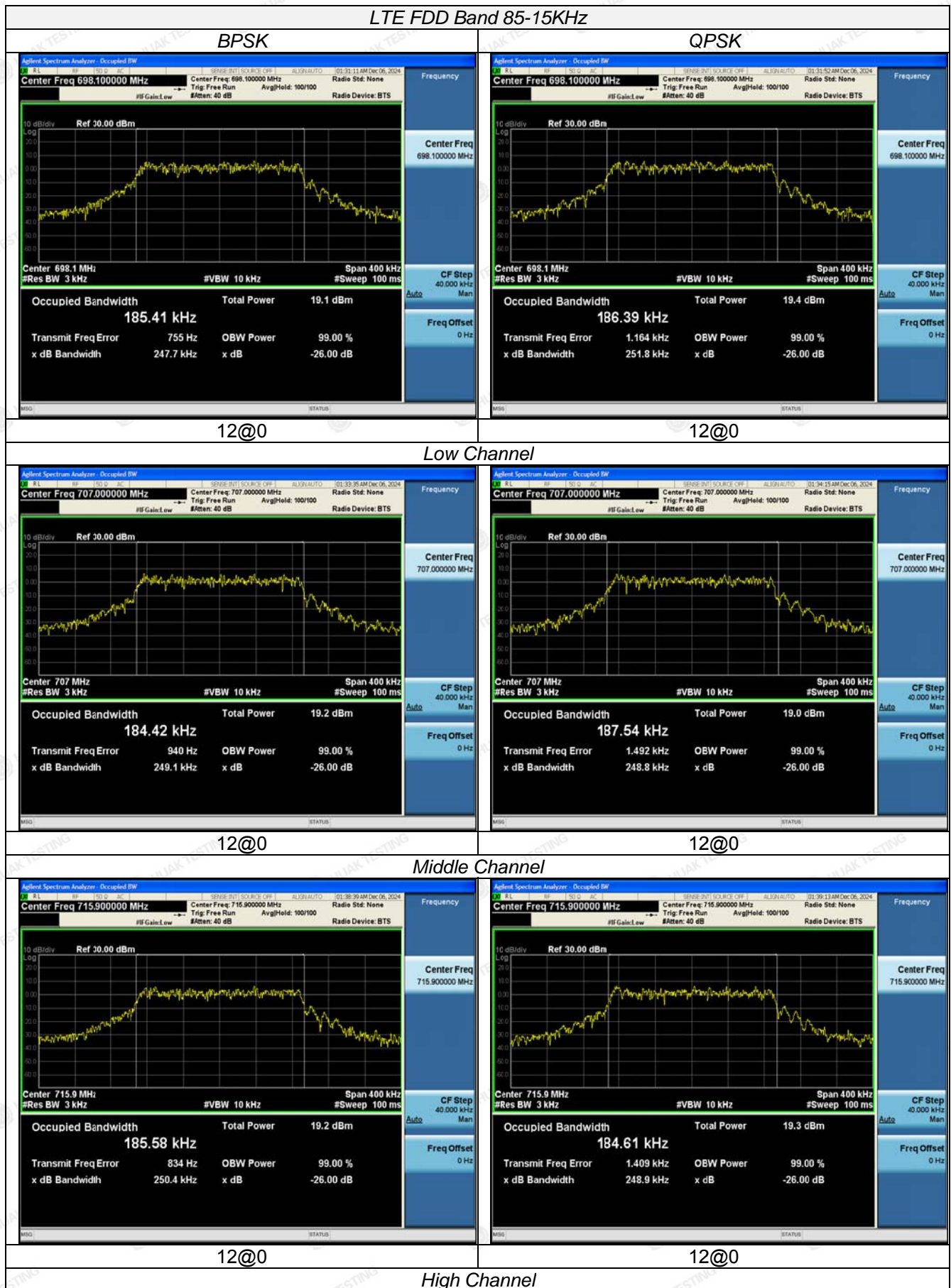


1@0



1@0

High Channel



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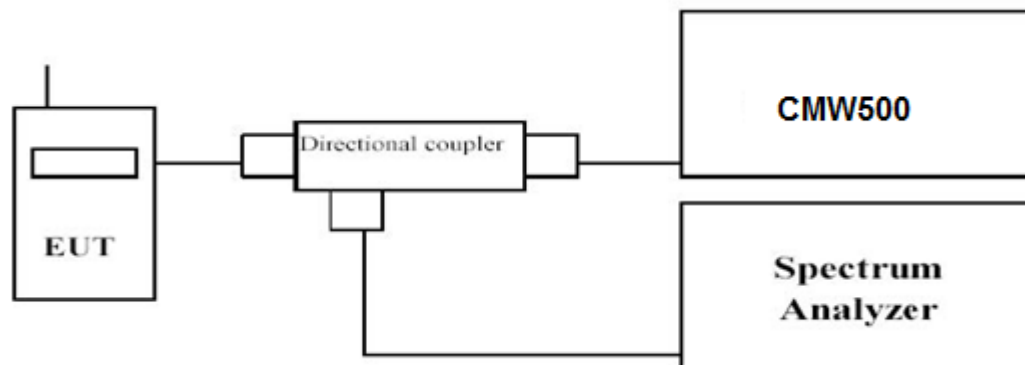
3.5 Band Edge Compliance

LIMIT

According to §27.53 (c): For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- (1) On any frequency outside the 746-758 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 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;
- (3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) 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;

TEST CONFIGURATION



TEST PROCEDURE

1. The transmitter output port was connected to base station.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator, the path loss was compensated to the results for each measurement.
3. Set EUT at maximum power through base station.
4. Select lowest and highest channels for each band and different modulation.
5. Measure Band edge using RMS (Average) detector by spectrum.

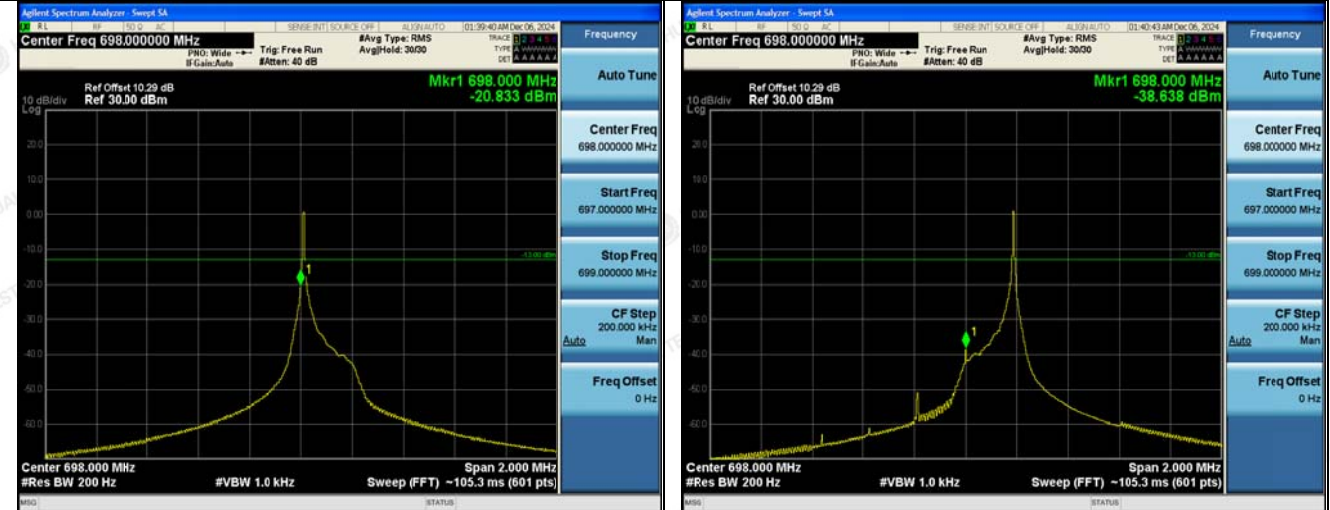
TEST RESULTS

Remark:

1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE Band 85; recorded worst case for each Channel Bandwidth of LTE Band 85.



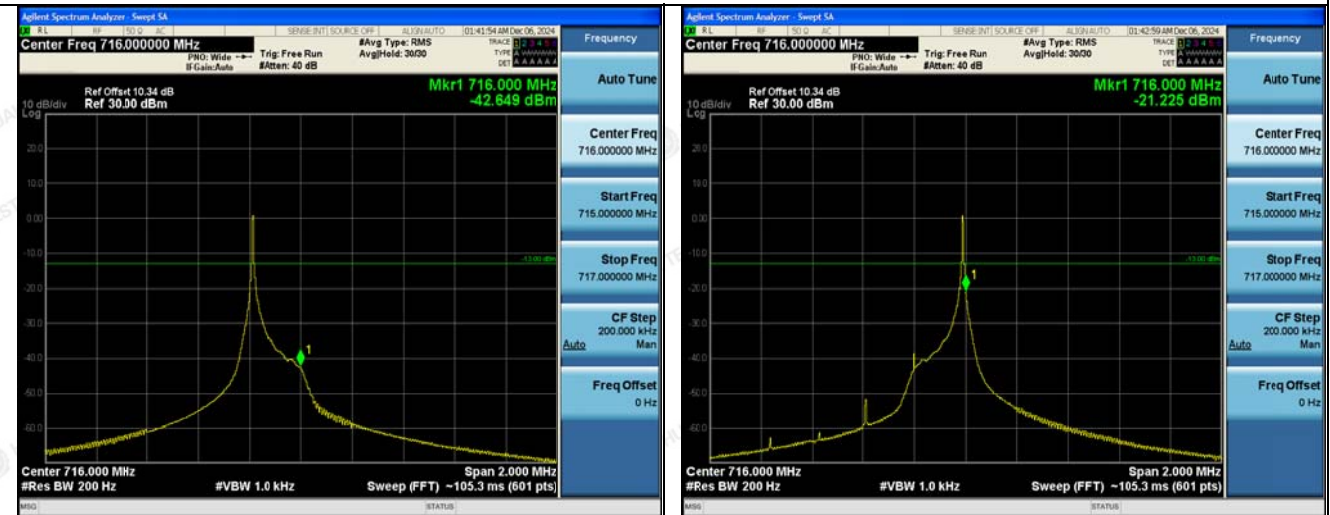
LTE FDD Band 85-BPSK- 3.75KHz



1@0

1@47

Low Channel



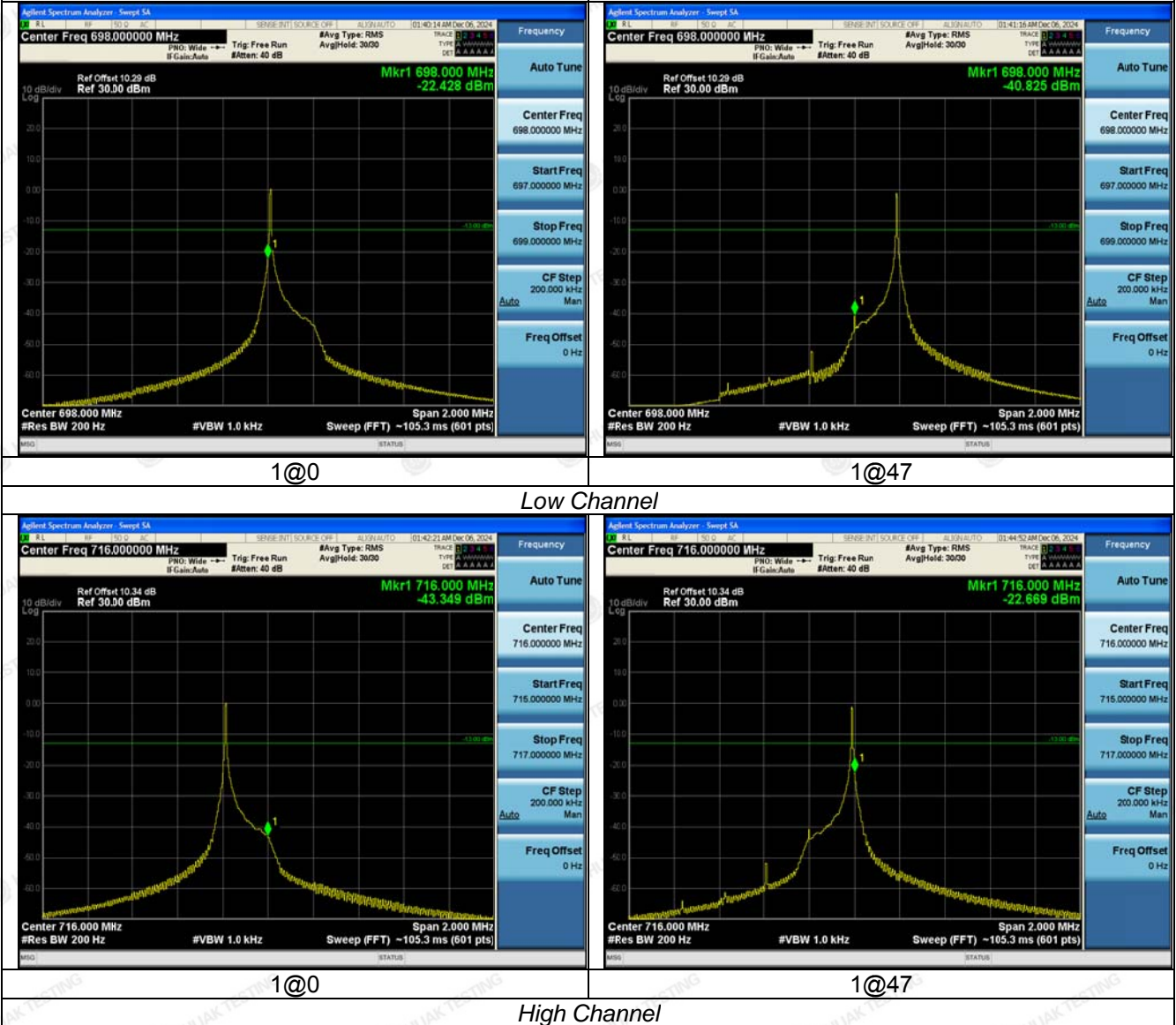
1@0

1@47

High Channel



LTE FDD Band 85-QPSK- 3.75KHz





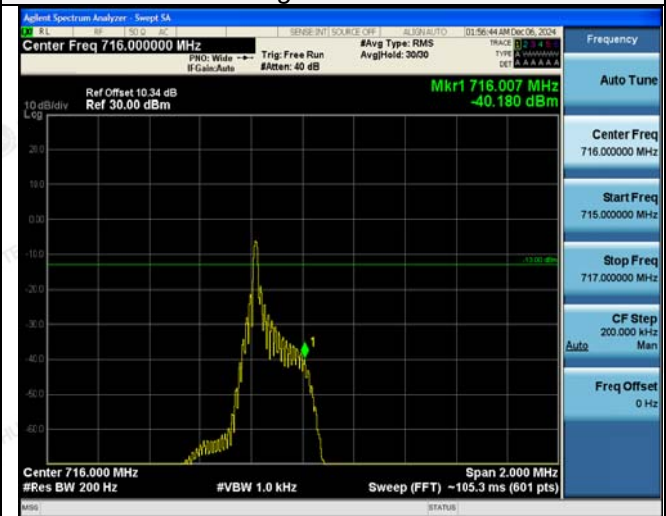
LTE FDD Band 85-BPSK- 15KHz

Low Channel



1@0

High Channel



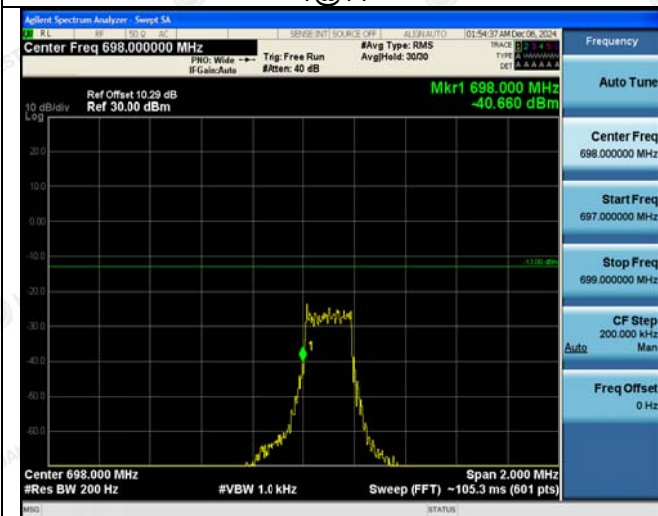
1@0



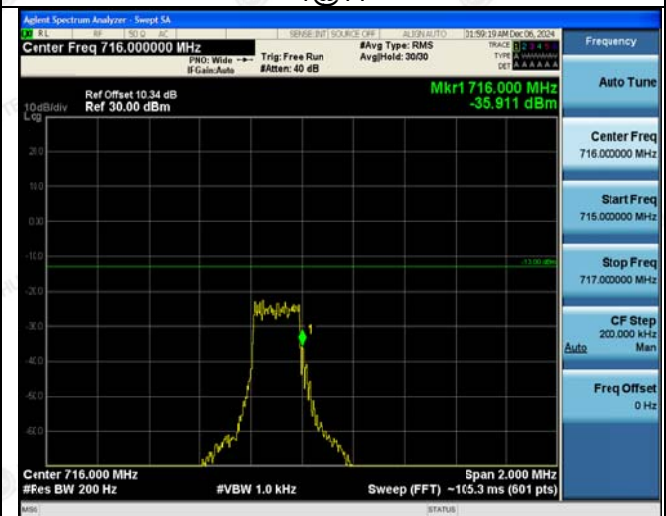
1@11



1@11



12@0



12@0