

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 22 SUBPART H, PART 24 SUBPART E and PART 27 SUBPART B, C & SUBPART L and PART 90S REQUIREMENT

OF

Applicant: HP Inc.
3390 East Harmony Road Fort Collins, Colorado 80528 United States

Product Name: Notebook Computer

Brand Name: HP

Model No.: HSN-I20C

Model Difference: N/A

FCC ID: B94HNI20CPK

Report Number: E2/2018/70055

FCC Rule Part: 2 , 22H & 24E & 27B, C & L & 90S

Issue Date: Sep. 06, 2018

Date of Test: Aug. 27, 2018

Date of EUT Received: Jul. 09, 2018

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.26-2015 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

The test results of this report relate only to the tested sample identified in this report.

Tested By:



Aken Huang / Engineer

Approved By:



Jim Chang / Manager



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Revision History

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
E2/2018/70055	Rev.00	Initial creation of document	All	Sep. 06, 2018	Stefanie Yu

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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

Product Name:	Notebook Computer	
Brand Name:	HP	
Model No.:	HSN-I20C	
Model Difference:	N/A	
Hardware Version:	N/A	
Software Version:	N/A	
WWAN Module:	Model No.: L860-GL, Supplier: Fibocom Wireless Inc.	
Power Supply:	7.7Vdc from Rechargeable Li-polymer Battery or 5 / 9 / 10 / 12 / 15 / 20Vdc from AC/DC Adapter	
	Battery:	Model No.: HSTNN-DB8M, Supplier: N/A.
	Adapter:	1. Model No.: TPN-CA06, Supplier: CHICONY POWER TECHNOLOGY (CHONG- QING) CO, LTD. 2. Model No.: TPN-AA03, Supplier: Acbel Electronic (Wuhan) Co., Ltd.
IMEI:	867921030096110	

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1.2. WCDMA / LTE: Cellular Phone Standards Frequency Range

Operating Frequency (MHz)		
WCDMA / HSPA+ Band II	1852.4	- 1907.6
WCDMA/HSPA+ Band IV	1712.4	- 1752.6
WCDMA / HSPA+ Band V	826.4	- 846.6

LTE Band	BW (MHz)	Operation Frequency (MHz)	LTE Band	BW (MHz)	Operation Frequency (MHz)
2	1.4	1850.7 - 1909.3	14	5	790.5 - 795.5
	3	1851.5 - 1908.5		10	793
	5	1852.5 - 1907.5	17	5	706.5 - 713.5
	10	1855.0 - 1905.0		10	709.0 - 711.0
	15	1857.5 - 1902.5	25	1.4	1850.7 - 1914.3
	20	1860.0 - 1900.0		3	1851.5 - 1913.5
4	1.4	1710.7 - 1754.3		5	1852.5 - 1912.5
	3	1711.5 - 1753.5		10	1855.0 - 1910.0
	5	1712.5 - 1752.5		15	1857.5 - 1907.5
	10	1715.0 - 1780.0		20	1860.0 - 1905.0
	15	1717.5 - 1747.5	26	1.4	824.7 - 848.3
	20	1720.0 - 1745.0		3	825.5 - 847.5
5	1.4	824.7 - 848.3		5	826.5 - 846.5
	3	825.5 - 847.5		10	829.0 - 844.0
	5	826.5 - 846.5		15	831.5 - 841.5
	10	829.0 - 844.0		26 Part90	1.4
7	5	2502.5 - 2567.5	3		815.5 - 822.5
	10	2505.0 - 2565.0	5		816.5 - 821.5
	15	2507.5 - 2562.5	10		819.0
	20	2510.0 - 2560.0	30	5	2307.5 - 2312.5
12	1.4	699.7 - 715.3		10	2310.0
	3	700.5 - 714.5	38	5	2572.5 - 2617.5
	5	701.5 - 713.5		10	2575.0 - 2615.0
	10	704.0 - 711.0		15	2577.5 - 2612.5
13	5	779.5 - 784.5		20	2580.0 - 2610.0
	10	782			

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LTE Band	BW (MHz)	Operation Frequency (MHz)	LTE Band	BW (MHz)	Operation Frequency (MHz)
41	5	2498.5 - 2687.5	66	1.4	1710.7 - 1779.3
	10	2501.0 - 2685.0		3	1711.5 - 1778.5
	15	2503.5 - 2682.5		5	1712.5 - 1777.5
	20	2506.0 - 2680.0		10	1715.0 - 1775.0
-	-	15		1717.5 - 1772.5	
-	-	20		1720.0 - 1770.0	

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Antenna Designation

Vendor	Type	Main / Aux	Antenna Part No.	Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)
INPAQ Corporation	Couple	Main	6036B0215701(WA-P-LTE12-02-008)	WCDMA / HSPA Band II	1852.4 ~ 1907.6	-5.17
				WCDMA / HSPA Band IV	1712.4 ~ 1752.6	-4.69
				WCDMA / HSPA Band V	826.4 ~ 846.6	-3.61
				LTE Band 2	1850 ~ 1910	-5.17
				LTE Band 4	1710 ~ 1755	-4.69
				LTE Band 5	824 ~ 849	-3.61
				LTE Band 7	2503 ~ 2560	-4.62
				LTE Band 12	699 ~ 716	-5.57
				LTE Band 13	777 ~ 787	-5.71
				LTE Band 14	788 ~ 798	N/A
				LTE Band 17	704 ~ 716	-5.57
				LTE Band 25	1850 ~ 1915	-5.17
				LTE Band 26	824 ~ 849	-3.61
				LTE Band 26	814 ~ 824	-3.61
	LTE Band 30	2305 ~ 2315	-4.11			
	LTE Band 38	2570 ~ 2620	-4.57			
	LTE Band 41	2496 ~ 2690	-4.57			
	LTE Band 66	1710 ~ 1780	-4.69			
	Couple	Aux	6036B0215801(WA-P-LTE8-02-024)	WCDMA / HSPA Band II	1852.4 ~ 1907.6	-8.26
				WCDMA / HSPA Band IV	1712.4 ~ 1752.6	N/A
				WCDMA / HSPA Band V	826.4 ~ 846.6	N/A
				LTE Band 2	1850 ~ 1910	-8.26
				LTE Band 4	1710 ~ 1755	N/A
				LTE Band 5	824 ~ 849	N/A
				LTE Band 7	2503 ~ 2560	N/A
				LTE Band 12	699 ~ 716	N/A
				LTE Band 13	777 ~ 787	N/A
				LTE Band 14	788 ~ 798	-5.58
LTE Band 17				704 ~ 716	N/A	
LTE Band 25				1850 ~ 1915	N/A	
LTE Band 26				824 ~ 849	N/A	
LTE Band 26 (Part 90S)				814 ~ 824	-5.66	
LTE Band 30	2305 ~ 2315	N/A				
LTE Band 38	2570 ~ 2620	-5				
LTE Band 41	2496 ~ 2690	-6.08				
LTE Band 66	1710 ~ 1780	N/A				

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1.3. Type of Emission & Max ERP/EIRP Power Measurement Result:

	ERP / EIRP (dBm)		(W)	Type of Emission
WCDMA Band II	18.63	EIRP	0.07	4M08F9W
HSDPA Band II	17.96	EIRP	0.06	4M08F9W
HSUPA Band II	17.41	EIRP	0.06	4M07F9W
WCDMA Band IV	18.81	EIRP	0.08	4M09F9W
HSDPA Band IV	18.37	EIRP	0.07	4M09F9W
HSUPA Band IV	17.84	EIRP	0.06	4M09F9W
WCDMA Band V	20.37	ERP	0.11	4M10F9W
HSDPA Band V	20.22	ERP	0.11	4M09F9W
HSUPA Band V	19.04	ERP	0.08	4M10F9W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
2	1.4	QPSK	18.37	EIRP	0.069	1M12G7D
	1.4	16QAM	17.38	EIRP	0.055	1M11D7W
	3	QPSK	18.36	EIRP	0.069	2M74G7D
	3	16QAM	17.66	EIRP	0.058	2M74D7W
	5	QPSK	18.39	EIRP	0.069	4M54G7D
	5	16QAM	17.75	EIRP	0.060	4M52D7W
	10	QPSK	18.54	EIRP	0.071	9M08G7D
	10	16QAM	17.78	EIRP	0.060	9M09D7W
	15	QPSK	18.32	EIRP	0.068	13M6G7D
	15	16QAM	17.73	EIRP	0.059	13M5D7W
	20	QPSK	18.53	EIRP	0.071	18M1G7D
	20	16QAM	17.58	EIRP	0.057	18M0D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
4	1.4	QPSK	18.95	EIRP	0.079	1M11G7D
	1.4	16QAM	18.25	EIRP	0.067	1M11D7W
	3	QPSK	18.78	EIRP	0.076	2M74G7D
	3	16QAM	18.19	EIRP	0.066	2M73D7W
	5	QPSK	18.85	EIRP	0.077	4M54G7D
	5	16QAM	18.26	EIRP	0.067	4M52D7W
	10	QPSK	18.88	EIRP	0.077	9M08G7D
	10	16QAM	18.25	EIRP	0.067	9M11D7W
	15	QPSK	18.83	EIRP	0.076	13M6G7D
	15	16QAM	18.26	EIRP	0.067	13M6D7W
	20	QPSK	18.96	EIRP	0.079	18M1G7D
	20	16QAM	18.09	EIRP	0.064	18M1D7W

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5	1.4	QPSK	21.05	ERP	0.127	1M11G7D
	1.4	16QAM	20.23	ERP	0.105	1M11D7W
	3	QPSK	21.02	ERP	0.126	2M72G7D
	3	16QAM	20.2	ERP	0.105	2M73D7W
	5	QPSK	21.31	ERP	0.135	4M54G7D
	5	16QAM	20.33	ERP	0.108	4M52D7W
	10	QPSK	21.08	ERP	0.128	9M09G7D
	10	16QAM	20.38	ERP	0.109	8M08D7W
7	5	QPSK	19.26	EIRP	0.084	4M53G7D
	5	16QAM	18.22	EIRP	0.066	4M53D7W
	10	QPSK	19.07	EIRP	0.081	9M11G7D
	10	16QAM	18.34	EIRP	0.068	9M10D7W
	15	QPSK	19.35	EIRP	0.086	13M58G7D
	15	16QAM	18.2	EIRP	0.066	13M58D7W
	20	QPSK	19.36	EIRP	0.086	18M06G7D
	20	16QAM	18.33	EIRP	0.068	18M12D7W
12	1.4	QPSK	18.43	ERP	0.07	1M11G7D
	1.4	16QAM	17.38	ERP	0.055	1M11D7W
	3	QPSK	18.14	ERP	0.065	2M73G7D
	3	16QAM	17.16	ERP	0.052	2M73D7W
	5	QPSK	18.39	ERP	0.069	4M55G7D
	5	16QAM	17.4	ERP	0.055	4M54D7W
	10	QPSK	18.26	ERP	0.067	9M17G7D
	10	16QAM	17.42	ERP	0.055	9M16D7W
13	5	QPSK	18.17	ERP	0.066	4M55G7D
	5	16QAM	17.26	ERP	0.053	4M54D7W
	10	QPSK	18.06	ERP	0.064	9M02G7D
	10	16QAM	16.99	ERP	0.050	9M02D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
14	5	QPSK	17.95	ERP	0.062	4M53G7D
	5	16QAM	17.21	ERP	0.053	4M55D7W
	10	QPSK	18.26	ERP	0.067	9M06G7D
	10	16QAM	17.27	ERP	0.053	9M06D7W
17	5	QPSK	18.39	ERP	0.069	4M54G7D
	5	16QAM	17.4	ERP	0.055	4M53D7W
	10	QPSK	18.41	ERP	0.069	9M12G7D
	10	16QAM	17.33	ERP	0.054	9M13D7W
25	1.4	QPSK	23.95	EIRP	0.248	1M11G7D
	1.4	16QAM	22.98	EIRP	0.199	1M11D7W
	3	QPSK	23.94	EIRP	0.248	2M73G7D
	3	16QAM	22.92	EIRP	0.196	2M73D7W
	5	QPSK	23.95	EIRP	0.248	4M54G7D
	5	16QAM	22.99	EIRP	0.199	4M52D7W
	10	QPSK	23.9	EIRP	0.245	9M09G7D
	10	16QAM	22.98	EIRP	0.199	9M11D7W
	15	QPSK	23.94	EIRP	0.248	13M6G7D
	15	16QAM	22.95	EIRP	0.197	13M5D7W
	20	QPSK	23.96	EIRP	0.249	18M0G7D
	20	16QAM	22.88	EIRP	0.194	18M0D7W
26	1.4	QPSK	20.53	ERP	0.113	1M11G7D
	1.4	16QAM	19.91	ERP	0.098	1M11D7W
	3	QPSK	20.57	ERP	0.114	2M73G7D
	3	16QAM	20.03	ERP	0.101	2M73D7W
	5	QPSK	20.56	ERP	0.114	4M53G7D
	5	16QAM	20.15	ERP	0.104	4M52D7W
	10	QPSK	20.72	ERP	0.118	9M07G7D
	10	16QAM	19.9	ERP	0.098	9M07D7W
	15	QPSK	20.83	ERP	0.121	13M6G7D
	15	16QAM	20.12	ERP	0.103	13M6D7W

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LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)	(W)	Type of Emission	
26 Part90	1.4	QPSK	20.72	ERP	0.118	1M11G7D
	1.4	16QAM	19.96	ERP	0.099	1M11D7W
	3	QPSK	20.76	ERP	0.119	2M72G7D
	3	16QAM	20.28	ERP	0.107	2M72D7W
	5	QPSK	20.6	ERP	0.115	4M53G7D
	5	16QAM	20.2	ERP	0.105	4M52D7W
	10	QPSK	20.62	ERP	0.115	9M08G7D
	10	16QAM	19.98	ERP	0.100	9M11D7W
30	5	QPSK	19.31	EIRP	0.085	4M53G7D
	5	16QAM	18.16	EIRP	0.065	4M53D7W
	10	QPSK	19.43	EIRP	0.088	9M05G7D
	10	16QAM	18.69	EIRP	0.074	9M05D7W
38	5	QPSK	19.34	EIRP	0.086	4M54G7D
	5	16QAM	18.37	EIRP	0.069	4M54D7W
	10	QPSK	19.38	EIRP	0.087	9M07G7D
	10	16QAM	18.36	EIRP	0.069	9M05D7W
	15	QPSK	19.40	EIRP	0.087	13M56G7D
	15	16QAM	18.28	EIRP	0.067	13M56D7W
	20	QPSK	19.41	EIRP	0.087	18M06G7D
	20	16QAM	18.37	EIRP	0.069	18M04D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)	(W)	Type of Emission	
41	5	QPSK	20.21	EIRP	0.105	4M52G7D
	5	16QAM	19.24	EIRP	0.084	4M52D7W
	10	QPSK	20.11	EIRP	0.103	9M12G7D
	10	16QAM	19.36	EIRP	0.086	9M08D7W
	15	QPSK	20.21	EIRP	0.105	13M5G7D
	15	16QAM	19.38	EIRP	0.087	13M6D7W
	20	QPSK	20.27	EIRP	0.106	18M0G7D
	20	16QAM	19.38	EIRP	0.087	18M1D7W
66	1.4	QPSK	18.61	EIRP	0.073	1M11G7D
	1.4	16QAM	18.05	EIRP	0.064	1M11D7W
	3	QPSK	18.61	EIRP	0.073	2M73G7D
	3	16QAM	17.93	EIRP	0.062	2M73D7W
	5	QPSK	18.8	EIRP	0.076	4M53G7D
	5	16QAM	18.28	EIRP	0.067	4M53D7W
	10	QPSK	18.85	EIRP	0.077	9M11G7D
	10	16QAM	18.1	EIRP	0.065	9M10D7W
	15	QPSK	18.76	EIRP	0.075	13M6G7D
	15	16QAM	18.12	EIRP	0.065	13M6D7W
	20	QPSK	18.94	EIRP	0.078	18M1G7D
	20	16QAM	18.18	EIRP	0.066	18M1D7W

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1.4. Test Methodology of Applied Standards

CC 47 CFR Part 2, 22, 24, 27, Part 90S.

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03

KDB941225 D01 SAR test for 3G devices v03r01 (SAR Measurement Procedures for 3G Devices, WCDMA / HSPA) was used for EUT and Base station setting.

TS 151 010-1 is used to set, and measure the output power.

Note: All test items have been performed and record as per the above standards.

1.5. Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd.,
Guishan District, Taoyuan City, Taiwan 333 code 0513)

FCC Registration Numbers are: 735305 / TW0002

1.6. Special Accessories

No special accessories were used during testing.

1.7. Equipment Modifications

There were no modifications incorporated into the EUT.

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台灣檢驗科技股份有限公司

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f (886-2) 2298-0488

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2. SYSTEM TEST CONFIGURATION

2.1. EUT Configuration

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

2.2. EUT Exercise

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

2.3. Test Procedure

2.3.1 Conducted Measurement at Antenna Port

According to measurement procured ANSI C63.26-2015, the EUT is placed on a turn table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

2.3.2 Radiated Emissions (ERP/EIRP)

According to measurement procured ANSI C63.26-2015, The EUT is a placed on as turn table, for emission measurements below 1 GHz is 0.8 m above ground plane, for emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna according to the requirements in Section 8 and 13.

2.4. 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 attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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Note:

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

Following shows an offset computation in physical test.

	RF cable loss (dB)	Attenuation factor(dB)	offset(dB)
Low Band (Below 1GHz)	3.6	10	13.6
High Band (Above 1 GHz)	3.9	10	13.9

2.5. Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
WCDMA B2	7.7	0.717
WCDMA B4		0.715
WCDMA B5		0.674
LTE Band 2		0.858
LTE Band 4		0.857
LTE Band 5		0.708
LTE Band 7		0.680
LTE Band 12		0.687
LTE Band 13		0.723
LTE Band 14		0.785
LTE Band 17		0.677
LTE Band 25		0.670
LTE Band 26		0.697
LTE Band 26 (Part 90S)		0.685
LTE Band 30		0.849
LTE Band 38		0.660
LTE Band 41		0.845
LTE Band 66		0.836

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2.6. Configuration of Tested System

Fig. 2-1 Configuration of Tested System (Fixed Channel-Conducted)

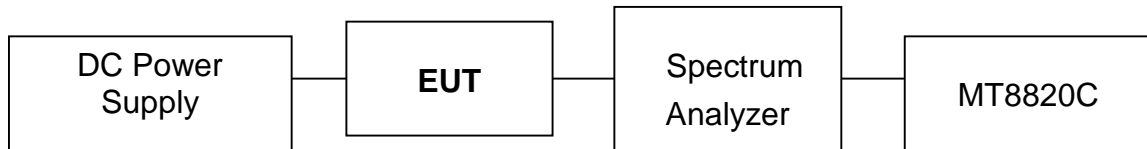
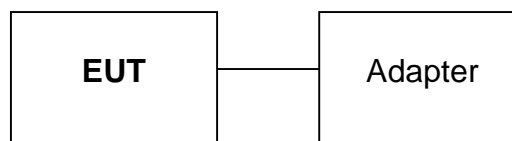


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)



Remote Side

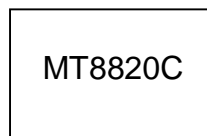


Table 2-1 Equipment Used in

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Universal Radio Communication Tester	Anritsu	MT8820C	6200307563	shielded	Un-shielded

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f (886-2) 2298-0488

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3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a)	RF Power Output	Compliant
§2.1046(a) §22.913(a)(5) §24.232(c) §27.50(a)(3) §27.50(c)(10) §27.50(d)(4) §90.635	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% & 26dB Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.50(c)(5) §27.53(h) §27.53(m)(4)(6) §90.691	Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask requirements	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(c)(2),(4) §27.50(c)(5) §27.53(f) §27.53(g) §27.53(h) §27.53(m)(4) §90.691(a)(1)(2)	Field Strength of Spurious Radiation	Compliant
§24.232(d) §27.53(d) (5) §27.50(i) (B)	Peak to Average Ratio	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54 §90.213	Frequency Stability	Compliant

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4. DESCRIPTION OF TEST MODES

4.1. The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, X(E1)Y(E2)Z(H) axis and antenna ports. The worst case was found as listed below. Following channel(s) was (were) selected for the final test as listed below:

BAND	ERP/EIRP	RADIATED EMISSION
WCDMA/HSPA Band II	E2-plan	E2-plan
WCDMA/HSPA Band V	E2-plan	E2-plan
LTE Band 2	E2-plan	E2-plan
LTE Band 4	E2-plan	E2-plan
LTE Band 5	E2-plan	E2-plan
LTE Band 12	E2-plan	E2-plan
LTE Band 13	E2-plan	E2-plan
LTE Band 14	E2-plan	E2-plan
LTE Band 17	E2-plan	E2-plan
LTE Band 25	E2-plan	E2-plan
LTE Band 26	E2-plan	E2-plan
LTE Band 26 (Part 90S)	E2-plan	E2-plan
LTE Band 30	E2-plan	E2-plan
LTE Band 38	E2-plan	E2-plan
LTE Band 41	E2-plan	E2-plan
LTE Band 66	E2-plan	E2-plan

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WCDMA/HSPA MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
ERP	4132 to 4233	4132, 4183, 4233	WCDMA/HSPA Band V
EIRP	9262 to 9538	9262, 9400, 9538	WCDMA/HSPA Band II
FREQUENCY STABILITY	4132 to 4233 9262 to 9538	4183 9400	WCDMA Band II WCDMA Band V
OCCUPIED BANDWIDTH	4132 to 4233 9262 to 9538	4132, 4183, 4233 9262, 9400, 9538	WCDMA/HSPA Band II WCDMA/HSPA Band V
PEAK TO AVERAGE RATIO	4132 to 4233 9262 to 9538	4132, 4183, 4233 9262, 9400, 9538	WCDMA/HSPA Band II WCDMA/HSPA Band V
BAND EDGE	4132 to 4233 9262 to 9538	4132, 4233 9262, 9538	WCDMA Band II WCDMA Band V
CONDCUDED EMISSION	4132 to 4233 9262 to 9538	4132, 4183, 4233 9262, 9400, 9538	WCDMA Band II WCDMA Band V
RADIATED EMISSION	4132 to 4233 9262 to 9538	4132, 4183, 4233 9262, 9400, 9538	WCDMA Band II WCDMA Band V

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LTE Band 2 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	18650 to 19150	18900	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	Full RB
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	Full RB
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	Full RB
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	Full RB
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	Full RB
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	18607 to 19193	18607, 18900, 19193	1.4MHz	16QAM	Full RB
	18615 to 19185	18615, 18900, 19185	3MHz	16QAM	Full RB
	18625 to 19175	18625, 18900, 19175	5MHz	16QAM	Full RB
	18650 to 19150	18650, 18900, 19150	10MHz	16QAM	Full RB
	18675 to 19125	18675, 18900, 19125	15MHz	16QAM	Full RB
	18700 to 19100	18700, 18900, 19100	20MHz	16QAM	Full RB
BAND EDGE	18607 to 19193	18607, 19193	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	18615 to 19185	18615, 19185	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	18625 to 19175	18625, 19175	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	18650 to 19150	18650, 19150	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	18675 to 19125	18675, 19125	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	18700 to 19100	18700, 19100	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDCUDED EMISSION	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK,	1 RB, 0 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK,	1 RB, 0 RB Offest
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK,	1 RB, 0 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK,	1 RB, 0 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK,	1 RB, 0 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMIS- SION	18625 to 19175	18625, 18900, 19175	10MHz	QPSK	1 RB, 0 RB Offest

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LTE Band 4 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	20000 to 20350	20175	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK, 16QAM	Full RB
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM,	Full RB
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM,	Full RB
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM,	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM,	Full RB
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM,	Full RB
PEAK TO AVERAGE RATIO	19957 to 19393	19957, 20175, 19393	1.4MHz	16QAM	Full RB
	19965 to 22385	19965, 20175, 22385	3MHz	16QAM	Full RB
	19975 to 20375	19975, 20175, 20375	5MHz	16QAM	Full RB
	20000 to 20350	20000, 20175, 20350	10MHz	16QAM	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	16QAM	Full RB
	20050 to 20300	20050, 20175, 20300	20MHz	16QAM	Full RB
BAND EDGE	19957 to 19393	19957, 19393	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	19965 to 22385	19965, 22385	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	19975 to 20375	19975, 20375	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	20000 to 20350	20000, 20350	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	20025 to 20325	20025, 20325	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	20050 to 20300	20050, 20300	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDCUDED EMISSION	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK,	1 RB, 0 RB Offest
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK,	1 RB, 0 RB Offest
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK,	1 RB, 0 RB Offest
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK,	1 RB, 0 RB Offest
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK,	1 RB, 0 RB Offest
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	20000 to 20350	20000, 20175, 20350	20MHz	QPSK,	1 RB, 99 RB Offest

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LTE Band 5 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM,	1 RB/ 0,5 RB Offest
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM,	1 RB/ 0,14 RB Offest
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM,	1 RB/ 0,24 RB Offest
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM,	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	20450 to 20600	20525	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM,	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM,	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM,	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM,	Full RB
PEAK TO AVERAGE RATIO	20470 to 20643	20470, 20525, 20643	1.4MHz	16QAM	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	16QAM	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	16QAM	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	16QAM	Full RB
BAND EDGE	20470 to 20643	20470, 20643	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	20415 to 20635	20415, 20635	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	20425 to 20625	20425, 20625	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	20450 to 20600	20450, 20600	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMISSION	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK,	1 RB, 0 RB Offest
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK,	1 RB, 0 RB Offest
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK,	1 RB, 0 RB Offest
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	20450 to 20600	20450, 20525, 20600	5MHz	QPSK,	1 RB, 24 RB Offest

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LTE Band 7 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	20800 to 21400	21100	10MHz	QPSK	Full RB
OCCUPIED BAND-WIDTH	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK, 16QAM	Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	20775 to 21425	20775, 21100, 21425	5MHz	16QAM	Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	16QAM	Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	16QAM	Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	16QAM	Full RB
BAND EDGE	20775 to 21425	20775, 21100, 21425	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK	1 RB/ 0,74 RB Offest Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	1 RB/ 0,99 RB Offest Full RB
CONDCUDED EMISSION	20775 to 21425	20775, 21100, 21425	5MHz	QPSK	1 RB, 0 RB Offest
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB, 0 RB Offest
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK	1 RB, 0 RB Offest
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	20800 to 21400	20800, 21100, 21400	20MHz	16QAM	1 RB, 0 RB Offest
EMISSION MASK	20775 to 21425	20775, 21100, 21425	5MHz	QPSK	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB/ 0,49 RB Offest 50 RB/ 0 Offset
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK	1 RB/ 0,74 RB Offest 75 RB/ 0 Offset
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	1 RB/ 0,99 RB Offest 100 RB/ 0 Offset

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LTE Band 12 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM,	1 RB/ 0,5 RB Offest
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM,	1 RB/ 0,14 RB Offest
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM,	1 RB/ 0,24 RB Offest
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM,	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23060 to 23130	23095	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM,	Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM,	Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM,	Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM,	Full RB
PEAK TO AVERAGE RATIO	23017 to 23173	23017, 23095, 23173	1.4MHz	16QAM	Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	16QAM	Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	16QAM	Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	16QAM	Full RB
BAND EDGE	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDUCTED EMISSION	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK,	1 RB, 0 RB Offest
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK,	1 RB, 0 RB Offest
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK,	1 RB, 0 RB Offest
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	23035 to 23155	23035, 23095, 23155	5MHz	QPSK	1 RB, 0 RB Offest

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LTE Band 13 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM,	1 RB/ 0,24 RB Offest
	23230	23230	10MHz	QPSK, 16QAM,	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23230	23230	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM,	Full RB
	23230	23230	10MHz	QPSK, 16QAM,	Full RB
PEAK TO AVERAGE RATIO	23205 to 23255	23205, 23230, 23255	5MHz	16QAM	Full RB
	23230	23230	10MHz	16QAM	Full RB
BAND EDGE	23205 to 23255	23205, 23255	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	23230	23230	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUETED EMISSION	23205 to 23255	23205, 23230, 23255	5MHz	QPSK,	1 RB, 0 RB Offest
	23230	23230	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMIS-SION	23205 to 23255	23205, 23230, 23255	10MHz	QPSK,	1 RB/ 25 RB Offest

LTE Band 14 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23305 to 23355	23305,23330,23355	5MHz	QPSK, 16QAM,	1 RB/ 0,24 RB Offest
	23330	23330	10MHz	QPSK, 16QAM,	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23330	23330	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	23305 to 23355	23305,23330,23355	5MHz	QPSK, 16QAM,	Full RB
	23330	23330	10MHz	QPSK, 16QAM,	Full RB
PEAK TO AVERAGE RATIO	23305 to 23355	23305,23330,23355	5MHz	16QAM	Full RB
	23330	23330	10MHz	16QAM	Full RB
BAND EDGE	23305 to 23355	23305, 23355	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	23330	23330	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUETED EMISSION	23305 to 23355	23305,23330,23355	5MHz	QPSK,	1 RB, 0 RB Offest
	23330	23330	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMIS-SION	23305 to 23355	23305,23330,23355	10MHz	QPSK,	1 RB/ 0 RB Offest

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LTE Band 17 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM,	1 RB/ 0,24 RB Offest
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM,	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23780 to 23800	23790	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM,	Full RB
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM,	Full RB
PEAK TO AVERAGE RATIO	23755 to 23825	23755, 23790, 23825	5MHz	16QAM	Full RB
	23780 to 23800	23780, 23790, 23800	10MHz	16QAM	Full RB
BAND EDGE	23755 to 23825	23755, 23825	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	23780 to 23800	23780, 23800	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMISSION	23755 to 23825	23755, 23790, 23825	5MHz	QPSK,	1 RB, 0 RB Offest
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMIS-SION	23755 to 23825	23755, 23790, 23825	10MHz	QPSK,	1 RB/ 0 RB Offest

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LTE Band 25 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	26047 to 26683	26047,26365,26683	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	26055 to 26365	26055, 26365,26675	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	26065 to 26665	26065,26365,26665	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	26090 to 26640	26090,26365,26640	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	26115 to 26615	26115,26365,26615	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	26140 to 26590	26140,26365,26590	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	26140 to 26590	26365	20MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	26047 to 26683	26047,26365,26683	1.4MHz	QPSK, 16QAM	Full RB
	26055 to 26365	26055, 26365,26675	3MHz	QPSK, 16QAM,	Full RB
	26065 to 26665	26065,26365,26665	5MHz	QPSK, 16QAM,	Full RB
	26090 to 26640	26090,26365,26640	10MHz	QPSK, 16QAM,	Full RB
	26115 to 26615	26115,26365,26615	15MHz	QPSK, 16QAM,	Full RB
	26140 to 26590	26140,26365,26590	20MHz	QPSK, 16QAM,	Full RB
PEAK TO AVERAGE RATIO	26047 to 26683	26047,26365,26683	1.4MHz	16QAM	Full RB
	26055 to 26365	26055, 26365,26675	3MHz	16QAM	Full RB
	26065 to 26665	26065,26365,26665	5MHz	16QAM	Full RB
	26090 to 26640	26090,26365,26640	10MHz	16QAM	Full RB
	26115 to 26615	26115,26365,26615	15MHz	16QAM	Full RB
	26140 to 26590	26140,26365,26590	20MHz	16QAM	Full RB
BAND EDGE	26047 to 26683	26047,26683	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	26055 to 26365	26055,26675	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	26065 to 26665	26065,26665	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	26090 to 26640	26090,26640	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	26115 to 26615	26115,26615	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	26140 to 26590	26140,26590	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDCUDED EMISSION	26047 to 26683	26047,26365,26683	1.4MHz	QPSK,	1 RB, 0 RB Offest
	26055 to 26365	26055, 26365,26675	3MHz	QPSK,	1 RB, 0 RB Offest
	26065 to 26665	26065,26365,26665	5MHz	QPSK,	1 RB, 0 RB Offest
	26090 to 26640	26090,26365,26640	10MHz	QPSK,	1 RB, 0 RB Offest
	26115 to 26615	26115,26365,26615	15MHz	QPSK,	1 RB, 0 RB Offest
	26140 to 26590	26140,26365,26590	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMIS-SION	26047 to 26683	26047,26365,26683	20MHz	QPSK,	1 RB, 0 RB Offest

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LTE Band 26 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	26697 to 27033	26697, 26865, 27033	1.4MHz	QPSK, 16QAM,	1 RB/ 0,5 RB Offest
	26705 to 27025	26705, 26865, 27025	3MHz	QPSK, 16QAM,	1 RB/ 0,14 RB Offest
	26715 to 27015	26815, 26865, 27015	5MHz	QPSK, 16QAM,	1 RB/ 0,24 RB Offest
	26750 to 26990	26750, 26865, 26990	10MHz	QPSK, 16QAM,	1 RB/ 0,49 RB Offest
	26775 to 26965	26775, 26865, 26965	15MHz	QPSK, 16QAM,	1 RB/ 0,74 RB Offest
FREQUENCY STABILITY	26775 to 26965	26865	15MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	26697 to 27033	26697, 26865, 27033	1.4MHz	QPSK, 16QAM,	Full RB
	26705 to 27025	26705, 26865, 27025	3MHz	QPSK, 16QAM,	Full RB
	26715 to 27015	26815, 26865, 27015	5MHz	QPSK, 16QAM,	Full RB
	26750 to 26990	26750, 26865, 26990	10MHz	QPSK, 16QAM,	Full RB
	26775 to 26965	26775, 26865, 26965	15MHz	QPSK, 16QAM,	Full RB
PEAK TO AVERAGE RATIO	26697 to 27033	26697, 26865, 27033	1.4MHz	16QAM	Full RB
	26705 to 27025	26705, 26865, 27025	3MHz	16QAM	Full RB
	26715 to 27015	26815, 26865, 27015	5MHz	16QAM	Full RB
	26750 to 26990	26750, 26865, 26990	10MHz	16QAM	Full RB
	26775 to 26965	26775, 26865, 26965	15MHz	16QAM	Full RB
BAND EDGE	26697 to 27033	26697, 27033	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	26705 to 27025	26705, 27025	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	26715 to 27015	26715, 27015	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	26750 to 26990	26750, 26990	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	26775 to 26965	26775, 26965	15MHz	QPSK	1 RB/ 0,74 RB Offest
CONDCUDED EMISSION	26697 to 27033	26697, 26865, 27033	1.4MHz	QPSK,	1 RB, 0 RB Offest
	26705 to 27025	26705, 26865, 27025	3MHz	QPSK,	1 RB, 0 RB Offest
	26715 to 27015	26815, 26865, 27015	5MHz	QPSK,	1 RB, 0 RB Offest
	26750 to 26990	26750, 26865, 26990	10MHz	QPSK,	1 RB, 0 RB Offest
	26775 to 26965	26775, 26865, 26965	15MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	26775 to 26965	26775, 26865, 26965	15MHz	QPSK,	1 RB, 0 RB Offest

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LTE Band 26 for 90S MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM,	1 RB/ 0,5 RB Offest
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM,	1 RB/ 0,14 RB Offest
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM,	1 RB/ 0,24 RB Offest
	26740	26740	10MHz	QPSK, 16QAM,	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	26697 to 26783	26740	1.4MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM,	Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM,	Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM,	Full RB
	26740	26740	10MHz	QPSK, 16QAM,	Full RB
PEAK TO AVERAGE RATIO	26697 to 26783	26697, 26740, 26783	1.4MHz	16QAM	Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	16QAM	Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	16QAM	Full RB
	26740	26740	10MHz	16QAM	Full RB
EMISSION MASK	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	26740	26740	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMISSION	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK,	1 RB, 0 RB Offest
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK,	1 RB, 0 RB Offest
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK,	1 RB, 0 RB Offest
	26740	26740	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	26740	26740	3MHz	QPSK,	1 RB, 0 RB Offest

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LTE Band 30 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	27685 to 27735	27685, 27710, 27735	5MHz	QPSK, 16QAM,	1 RB/ 0,24 RB Offest
	27710	27710	10MHz	QPSK, 16QAM,	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	27710	27710	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	27685 to 27735	27685, 27710, 27735	5MHz	QPSK, 16QAM,	Full RB
	27710	27710	10MHz	QPSK, 16QAM,	Full RB
PEAK TO AVERAGE RATIO	27685 to 27735	27685, 27710, 27735	5MHz	16QAM	Full RB
	27710	27710	10MHz	16QAM	Full RB
BAND EDGE	27685 to 27735	27685, 27710, 27735	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	27710	27710	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMISSION	27685 to 27735	27685, 27710, 27735	5MHz	QPSK,	1 RB, 0 RB Offest
	27710	27710	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMIS-SION	27685 to 27735	27685, 27710, 27735	10MHz	QPSK	1 RB/ 49 RB Offest

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LTE Band 38 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	37775 to 38225	37775,38000,38225	5MHz	QPSK, 16QAM,	1 RB/ 0,24 RB Offest
	37800 to 38200	37800,38000,38200	10MHz	QPSK, 16QAM,	1 RB/ 0,49 RB Offest
	37825 to 38175	37825,38000,38175	15MHz	QPSK, 16QAM,	1 RB/ 0,74 RB Offest
	37850 to 38150	37850,38000,38150	20MHz	QPSK, 16QAM,	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	37800 to 38200	37800,38000,38200	10MHz	QPSK,	Full RB
OCCUPIED BAND-WIDTH	37775 to 38225	37775,38000,38225	5MHz	QPSK, 16QAM,	Full RB
	37800 to 38200	37800,38000,38200	10MHz	QPSK, 16QAM,	Full RB
	37825 to 38175	37825,38000,38175	15MHz	QPSK, 16QAM,	Full RB
	37850 to 38150	37850,38000,38150	20MHz	QPSK, 16QAM,	Full RB
PEAK TO AVERAGE RATIO	37775 to 38225	37775,38000,38225	5MHz	16QAM	Full RB
	37800 to 38200	37800,38000,38200	10MHz	16QAM	Full RB
	37825 to 38175	37825,38000,38175	15MHz	16QAM	Full RB
	37850 to 38150	37850,38000,38150	20MHz	16QAM	Full RB
BAND EDGE	37775 to 38225	37775,38000,38225	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	37800 to 38200	37800,38000,38200	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	37825 to 38175	37825,38000,38175	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	37850 to 38150	37850,38000,38150	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDCUDEDTED EMIS-SION	37775 to 38225	37775,38000,38225	5MHz	QPSK,	1 RB, 0 RB Offest
	37800 to 38200	37800,38000,38200	10MHz	QPSK,	1 RB, 0 RB Offest
	37825 to 38175	37825,38000,38175	15MHz	QPSK,	1 RB, 0 RB Offest
	37850 to 38150	37850,38000,38150	20MHz	QPSK,	1 RB, 0 RB Offest
EMISSION MASK	37775 to 38225	37775,38000,38225	5MHz	QPSK,	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
	37800 to 38200	37800,38000,38200	10MHz	QPSK,	1 RB/ 0,49 RB Offest 50 RB/ 0 Offset
	37825 to 38175	37825,38000,38175	15MHz	QPSK,	1 RB/ 0,74 RB Offest 75 RB/ 0 Offset
	37850 to 38150	37850,38000,38150	20MHz	QPSK,	1 RB/ 0,99 RB Offest 100 RB/ 0 Offset
RADIATED EMISSION	37775 to 38225	37775,38000,38225	5MHz	QPSK,	1 RB, 0 RB Offest

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LTE Band 41 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM,	1 RB/ 0,24 RB Offest
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM,	1 RB/ 0,49 RB Offest
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM,	1 RB/ 0,74 RB Offest
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM,	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	39700 to 41540	39700, 40620, 41540	10MHz	QPSK,	Full RB
OCCUPIED BAND-WIDTH	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM,	Full RB
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM,	Full RB
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM,	Full RB
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM,	Full RB
PEAK TO AVERAGE RATIO	39675 to 41565	39675, 40620, 41565	5MHz	16QAM	Full RB
	39700 to 41540	39700, 40620, 41540	10MHz	16QAM	Full RB
	39725 to 41515	39725, 40620, 41515	15MHz	16QAM	Full RB
	39750 to 41490	39750, 40620, 41490	20MHz	16QAM	Full RB
BAND EDGE	39675 to 41565	39675, 41565	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	39700 to 41540	39700, 41540	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	39725 to 41515	39725, 41515	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	39750 to 41490	39750, 41490	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDCUDED EMIS-SION	39675 to 41565	39675, 40620, 41565	5MHz	QPSK,	1 RB, 0 RB Offest
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK,	1 RB, 0 RB Offest
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK,	1 RB, 0 RB Offest
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK,	1 RB, 0 RB Offest
EMISSION MASK	39675 to 41565	39675, 40620, 41565	5MHz	QPSK,	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK,	1 RB/ 0,49 RB Offest 50 RB/ 0 Offset
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK,	1 RB/ 0,74 RB Offest 75 RB/ 0 Offset
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK,	1 RB/ 0,99 RB Offest 100 RB/ 0 Offset
RADIATED EMISSION	39750 to 41490	39750, 40620, 41490	20MHz	QPSK,	1 RB, 99 RB Offest

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LTE Band 66 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	131979 to 132665	131979, 132322, 132665	1.4MHz	QPSK, 16QAM,	1 RB/ 0,5 RB Offest
	131987 to 132657	131987, 132322, 132657	3MHz	QPSK, 16QAM,	1 RB/ 0,14 RB Offest
	131997 to 132647	131997, 132322, 132647	5MHz	QPSK, 16QAM,	1 RB/ 0,24 RB Offest
	132022 to 132622	132022, 132322, 132622	10MHz	QPSK, 16QAM,	1 RB/ 0,49 RB Offest
	132047 to 132597	132047, 132322, 132597	15MHz	QPSK, 16QAM,	1 RB/ 0,74 RB Offest
	132072 to 132572	132072, 132322, 132572	20MHz	QPSK, 16QAM,	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	18650 to 19150	18900	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	131979 to 132665	131979, 132322, 132665	1.4MHz	QPSK, 16QAM,	Full RB
	131987 to 132657	131987, 132322, 132657	3MHz	QPSK, 16QAM,	Full RB
	131997 to 132647	131997, 132322, 132647	5MHz	QPSK, 16QAM,	Full RB
	132022 to 132622	132022, 132322, 132622	10MHz	QPSK, 16QAM,	Full RB
	132047 to 132597	132047, 132322, 132597	15MHz	QPSK, 16QAM,	Full RB
	132072 to 132572	132072, 132322, 132572	20MHz	QPSK, 16QAM,	Full RB
PEAK TO AVERAGE RATIO	131979 to 132665	131979, 132322, 132665	1.4MHz	16QAM	Full RB
	131987 to 132657	131987, 132322, 132657	3MHz	16QAM	Full RB
	131997 to 132647	131997, 132322, 132647	5MHz	16QAM	Full RB
	132022 to 132622	132022, 132322, 132622	10MHz	16QAM	Full RB
	132047 to 132597	132047, 132322, 132597	15MHz	16QAM	Full RB
	132072 to 132572	132072, 132322, 132572	20MHz	16QAM	Full RB
BAND EDGE	18607 to 19193	18607, 19193	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	18615 to 19185	18615, 19185	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	18625 to 19175	18625, 19175	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	18650 to 19150	18650, 19150	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	18675 to 19125	18675, 19125	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	18700 to 19100	18700, 19100	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDCUDED EMISSION	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK,	1 RB, 0 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK,	1 RB, 0 RB Offest
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK,	1 RB, 0 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK,	1 RB, 0 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK,	1 RB, 0 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	18700 to 19100	18700, 18900, 19100	20MHz	QPSK,	1 RB, 0 RB Offest

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5. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
RF Power Output	+/- 1.10 dB
ERP/ EIRP measurement	Vertical Polarization = +/- 4.74dB Horizontal Polarization = +/- 4.62dB
99% Occupied Bandwidth	+/- 5.19 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 0.70 dB
Peak to Average Ratio	+/- 0.70 dB
Frequency Stability vs. Temperature	+/- 5.19 Hz
Frequency Stability vs. Voltage	+/- 5.19 Hz
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC= +/- 0.2%

Radiated Spurious Emission:

Measurement uncertainty (Polarization : Vertical)	9kHz – 30MHz: +/- 2.87 dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : Horizontal)	9kHz – 30MHz: +/- 2.87 dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

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

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6. MAXMUM OUTPUT POWER

6.1. Standard Applicable

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals.

ERP/EIRP LIMIT

According to FCC §2.1046

FCC 22.913(a) Mobile station is limited to 7W ERP.

FCC 24.232(b) Mobile and portable stations are limited to 2 W EIRP.

FCC 27.50(a)(3) Mobile and portable stations (hand-held devices) are limited to 250 mW/ 5MHz EIRP.

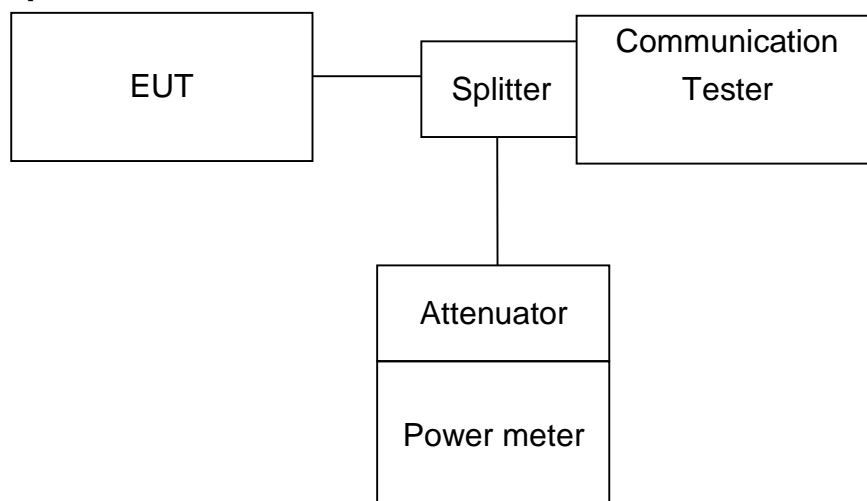
FCC 27.50(c)(10) Portable stations (hand-held devices) are limited to 3 watts ERP.

FCC 27.50(d)(4) Fixed, mobile, and portable (hand-held) stations are limited to 1W EIRP.

FCC 27, 50(h)(2) Mobile and other user stations. Mobile stations are limited to 2 W EIRP

FCC 90.635(b) Mobile station is limited to 100W ERP

6.2. Test Set-up



Note: Measurement setup for testing on Antenna connector

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6.3. Measurement Procedure

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading. TS 151 010-1 is reference to conduct the test measurement of output power.

The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, (WCD-MA/HSPA) was used for EUT and Base station setting. RMC 12.2kps is used for this testing, and KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results

All LTE bands conducted average power is obtained from the simulator telecommunication test set.

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP.

TEST PROCEDURE:

ANSI C63.26:2015

KDB 971168 Section 5.6

$$\text{ERP/EIRP} = \text{PMeas} + \text{GT-LC}$$

where: ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm);

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

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

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.2

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

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6.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/06/19
Radio Communication Analyzer	Anritsu	MT8820C	6201107337	2018/06/15	2019/06/14
DC Power Supply	Agilent	E3640A	MY53130054	2017/09/04	2018/09/03
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25
Splitter	Woken	DOM35LW1A2	RF36	2017/12/26	2018/12/25

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6.5. Measurement Result

RF Conducted Output Power

WCDMA MODE:

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 V8.4.0 specification. The EUT supports power Class 3, which has a nominal maximum output power of 24 dBm (+1.7/-3.7). RMC 12.2kps is used for this testing.

Results:

WCDMA/HSUPA/HSDPA Band II Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	1852.4	9262	23.73	-5.17	18.56	33.00	-14.44
	1880.0	9400	23.69	-5.17	18.52	33.00	-14.48
	1907.6	9538	23.80	-5.17	18.63	33.00	-14.37
HSDPA	1852.4	9262	22.82	-5.17	17.65	33.00	-15.35
	1880.0	9400	23.13	-5.17	17.96	33.00	-15.04
	1907.6	9538	22.92	-5.17	17.75	33.00	-15.25
HSUPA	1852.4	9262	22.26	-5.17	17.09	33.00	-15.91
	1880.0	9400	22.58	-5.17	17.41	33.00	-15.59
	1907.6	9538	22.43	-5.17	17.26	33.00	-15.74

WCDMA/HSUPA/HSDPA Band IV Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	1712.4	1312	23.27	-4.69	18.58	30.00	-11.42
	1732.6	1413	23.50	-4.69	18.81	30.00	-11.19
	1752.6	1513	23.21	-4.69	18.52	30.00	-11.48
HSDPA	1712.4	1312	22.73	-4.69	18.04	30.00	-11.96
	1732.6	1413	23.06	-4.69	18.37	30.00	-11.63
	1752.6	1513	22.82	-4.69	18.13	30.00	-11.87
HSUPA	1712.4	1312	22.18	-4.69	17.49	30.00	-12.51
	1732.6	1413	22.53	-4.69	17.84	30.00	-12.16
	1752.6	1513	22.31	-4.69	17.62	30.00	-12.38

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WCDMA/HSUPA/HSDPA Band V Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	826.4	4132	23.98	-3.61	20.37	38.50	-18.13
	836.6	4183	23.90	-3.61	20.29	38.50	-18.21
	846.6	4233	23.93	-3.61	20.32	38.50	-18.18
HSDPA	826.4	4132	23.83	-3.61	20.22	38.50	-18.28
	836.6	4183	23.66	-3.61	20.05	38.50	-18.45
	846.6	4233	23.65	-3.61	20.04	38.50	-18.46
HSUPA	826.4	4132	22.65	-3.61	19.04	38.50	-19.46
	836.6	4183	22.65	-3.61	19.04	38.50	-19.46
	846.6	4233	22.59	-3.61	18.98	38.50	-19.52

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HSDPA Release 6 MODE:

The following 4 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 V8.4.0 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C10.1.4 & C11.1.3 in the 3GPP TS34.121-1 V8.4.0. RMC 12.2kps is used for this testing.

HSDPA SUB-TEST Setting

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH(FOR HSDPA)

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)	RMC (Kbps)
1	2/15	15/15	64	2/15	4/15	0.0	0.0	12.2
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0	12.2
3	15/15	8/15	64	15/8	30/15	1.5	0.5	12.2
4	15/15	4/15	64	15/4	30/15	1.5	0.5	12.2

Note: The recommended HSDPA MPRs are implemented as per following sub-tests.

HSPA (HSDPA & HSUPA) Release 6 MODE

The following 5 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 V8.4.0 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C11.1.3 in the 3GPP TS34.121-1 V8.4.0. RMC 12.2kps is used for this testing

HSPA SUB-TEST Setting

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH(FOR HSUPA)

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS}	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (Code s)	CM (dB)	MPR (dB)	AG Index	E-TFCI	RMC (Kbps)
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/225	1309/225	4	1	1.0	0.0	20	75	12.2
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67	12.2
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}: 47/15$ $\beta_{ed2}: 47/15$	4 4	2	2.0	1.0	15	92	12.2
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71	12.2
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81	12.2

Note: The recommended HSUPA MPRs are implemented as per following sub-tests.

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Results:

Mode	Sub test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		9262.00	9400.00	9538.00		
HSDPA II	1	22.82	23.13	22.92	20.3dBm – 25.7dBm	Pass
	2	21.77	22.03	21.92	20.3dBm – 25.7dBm	Pass
	3	21.20	21.52	21.39	19.8dBm – 25.7dBm	Pass
	4	21.02	21.27	21.15	19.8dBm – 25.7dBm	Pass

Mode	Sub test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		1312.00	1413.00	1513.00		
HSDPA IV	1	22.73	23.06	22.82	20.3dBm – 25.7dBm	Pass
	2	21.76	22.01	21.82	20.3dBm – 25.7dBm	Pass
	3	21.28	21.59	21.32	19.8dBm – 25.7dBm	Pass
	4	21.06	21.24	21.11	19.8dBm – 25.7dBm	Pass

Mode	Sub test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		4132.00	4183.00	4233.00		
HSDPA V	1	23.83	23.66	23.65	20.3dBm – 25.7dBm	Pass
	2	22.69	22.64	22.55	20.3dBm – 25.7dBm	Pass
	3	22.14	22.05	21.90	19.8dBm – 25.7dBm	Pass
	4	21.87	21.98	21.82	19.8dBm – 25.7dBm	Pass

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Mode	Sub test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		9262.00	9400.00	9538.00		
HSUPA II	1	22.26	22.58	22.43	18.8dBm – 25.7dBm	Pass
	2	22.83	23.12	22.93	16.8dBm – 25.7dBm	Pass
	3	21.22	21.52	21.43	17.8dBm – 25.7dBm	Pass
	4	22.84	23.11	23.01	16.8dBm – 25.7dBm	Pass
	5	21.74	22.04	21.91	18.8dBm – 25.7dBm	Pass

Mode	Sub test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		1312.00	1413.00	1513.00		
HSDPA IV	1	22.18	22.53	22.31	20.3dBm – 25.7dBm	Pass
	2	22.69	23.02	22.84	20.3dBm – 25.7dBm	Pass
	3	21.22	21.53	21.33	19.8dBm – 25.7dBm	Pass
	4	22.74	23.03	22.83	19.8dBm – 25.7dBm	Pass
	5	21.71	22.01	21.85	19.8dBm – 25.7dBm	Pass

Mode	Sub test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		4132.00	4183.00	4233.00		
HSUPA V	1	22.65	22.65	22.59	18.8dBm – 25.7dBm	Pass
	2	20.36	20.28	20.25	16.8dBm – 25.7dBm	Pass
	3	21.08	20.98	20.96	17.8dBm – 25.7dBm	Pass
	4	20.61	20.49	20.47	16.8dBm – 25.7dBm	Pass
	5	22.73	22.67	22.52	18.8dBm – 25.7dBm	Pass

WCDMA/HSDPA/HSUPA band II, IV, V

The EUT output power was controlled by simulator. Set Communication Tester MT8820C function key “UE Power Control” and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm. Then record the read (see page 15 for measurement data). The min. power was measures by a function key “minimum sole power” then record the read. It is -52.3dBm. The power variation can be 0.1dB step by setting.

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t (886-2) 2299-3279

f (886-2) 2298-0488

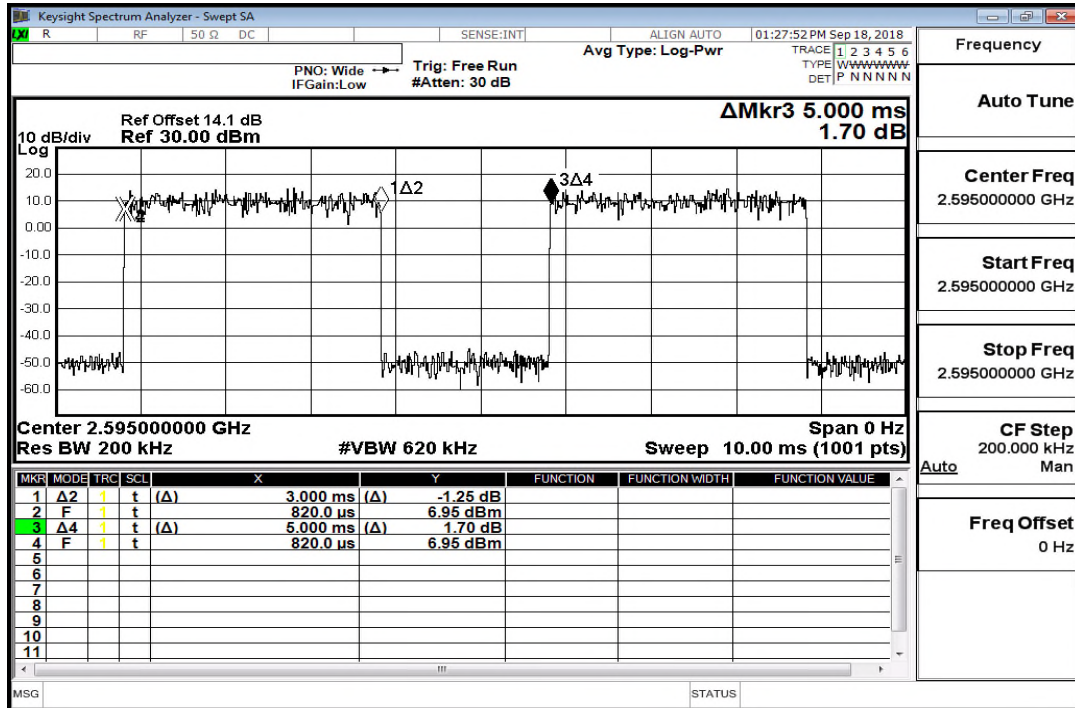
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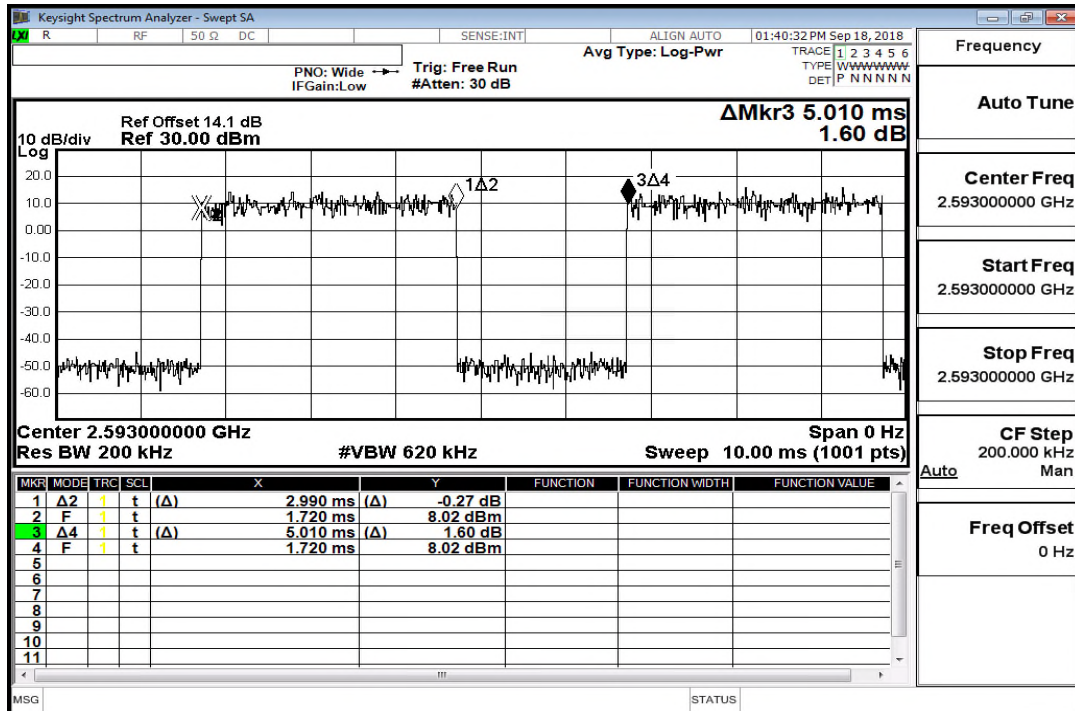
Duty Cycle:

	$\Delta 1$		$\Delta 2$		Duty Cycle	%
Band38 10M Mid Channel	3.0000	ms	5.0000	ms	0.600	60.0 %
Band41 10M Mid Channel	2.9900	ms	5.0100	ms	0.597	59.7 %

Band38



Band41



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LTE Result:

Antenna gain (dBi) **-5.17**

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	18607	1850.7	QPSK	1	0	23.41	18.24	33	-14.76
				1	5	23.43	18.26	33	-14.74
				3	2	23.33	18.16	33	-14.84
				6	0	22.39	17.22	33	-15.78
	18900	1880	QPSK	1	0	23.49	18.32	33	-14.68
				1	5	23.54	18.37	33	-14.63
				3	2	23.34	18.17	33	-14.83
				6	0	22.50	17.33	33	-15.67
	19193	1909.3	QPSK	1	0	23.41	18.24	33	-14.76
				1	5	23.34	18.17	33	-14.83
				3	2	23.14	17.97	33	-15.03
				6	0	22.28	17.11	33	-15.89
	18607	1850.7	16QAM	1	0	22.17	17.00	33	-16
				1	5	22.53	17.36	33	-15.64
				3	2	22.34	17.17	33	-15.83
				6	0	21.28	16.11	33	-16.89
	18900	1880	16QAM	1	0	22.21	17.04	33	-15.96
				1	5	22.30	17.13	33	-15.87
				3	2	22.55	17.38	33	-15.62
				6	0	21.40	16.23	33	-16.77
	19193	1909.3	16QAM	1	0	22.10	16.93	33	-16.07
				1	5	22.43	17.26	33	-15.74
				3	2	22.19	17.02	33	-15.98
				6	0	21.29	16.12	33	-16.88

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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Antenna gain (dBi) -5.17

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	18615	1851.5	QPSK	1	0	23.24	18.07	33	-14.93
				1	14	23.37	18.20	33	-14.8
				8	4	22.56	17.39	33	-15.61
				15	0	22.52	17.35	33	-15.65
	18900	1880	QPSK	1	0	23.33	18.16	33	-14.84
				1	14	23.34	18.17	33	-14.83
				8	4	22.39	17.22	33	-15.78
				15	0	22.47	17.30	33	-15.7
	19185	1908.5	QPSK	1	0	23.53	18.36	33	-14.64
				1	14	23.11	17.94	33	-15.06
				8	4	22.38	17.21	33	-15.79
				15	0	22.42	17.25	33	-15.75
	18615	1851.5	16QAM	1	0	22.73	17.56	33	-15.44
				1	14	22.54	17.37	33	-15.63
				8	4	21.52	16.35	33	-16.65
				15	0	21.44	16.27	33	-16.73
	18900	1880	16QAM	1	0	22.51	17.34	33	-15.66
				1	14	22.83	17.66	33	-15.34
				8	4	21.49	16.32	33	-16.68
				15	0	21.54	16.37	33	-16.63
	19185	1908.5	16QAM	1	0	22.61	17.44	33	-15.56
				1	14	22.30	17.13	33	-15.87
				8	4	21.32	16.15	33	-16.85
				15	0	21.34	16.17	33	-16.83

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Antenna gain (dBi) -5.17

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	18625	1852.5	QPSK	1	0	23.40	18.23	33	-14.77
				1	24	23.27	18.10	33	-14.9
				12	6	22.48	17.31	33	-15.69
				25	0	22.44	17.27	33	-15.73
	18900	1880	QPSK	1	0	23.56	18.39	33	-14.61
				1	24	23.41	18.24	33	-14.76
				12	6	22.67	17.50	33	-15.5
				25	0	22.52	17.35	33	-15.65
	19175	1907.5	QPSK	1	0	23.50	18.33	33	-14.67
				1	24	23.34	18.17	33	-14.83
				12	6	22.65	17.48	33	-15.52
				25	0	22.66	17.49	33	-15.51
	18625	1852.5	16QAM	1	0	22.21	17.04	33	-15.96
				1	24	22.63	17.46	33	-15.54
				12	6	21.78	16.61	33	-16.39
				25	0	21.75	16.58	33	-16.42
	18900	1880	16QAM	1	0	22.69	17.52	33	-15.48
				1	24	22.64	17.47	33	-15.53
				12	6	21.63	16.46	33	-16.54
				25	0	21.58	16.41	33	-16.59
	19175	1907.5	16QAM	1	0	22.92	17.75	33	-15.25
				1	24	22.40	17.23	33	-15.77
				12	6	21.56	16.39	33	-16.61
				25	0	21.63	16.46	33	-16.54

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Antenna gain (dBi) -5.17

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	18650	1855	QPSK	1	0	23.53	18.36	33	-14.64
				1	49	23.43	18.26	33	-14.74
				25	12	22.39	17.22	33	-15.78
				50	0	22.45	17.28	33	-15.72
	18900	1880	QPSK	1	0	23.71	18.54	33	-14.46
				1	49	23.45	18.28	33	-14.72
				25	12	22.56	17.39	33	-15.61
				50	0	22.41	17.24	33	-15.76
	19150	1905	QPSK	1	0	23.49	18.32	33	-14.68
				1	49	22.95	17.78	33	-15.22
				25	12	22.55	17.38	33	-15.62
				50	0	22.54	17.37	33	-15.63
	18650	1855	16QAM	1	0	22.95	17.78	33	-15.22
				1	49	22.63	17.46	33	-15.54
				25	12	21.49	16.32	33	-16.68
				50	0	21.44	16.27	33	-16.73
	18900	1880	16QAM	1	0	22.66	17.49	33	-15.51
				1	49	22.66	17.49	33	-15.51
				25	12	21.71	16.54	33	-16.46
				50	0	21.57	16.40	33	-16.6
	19150	1905	16QAM	1	0	22.76	17.59	33	-15.41
				1	49	22.39	17.22	33	-15.78
				25	12	21.69	16.52	33	-16.48
				50	0	21.58	16.41	33	-16.59

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Antenna gain (dBi) -5.17

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	18675	1857.5	QPSK	1	0	23.46	18.29	33	-14.71
				1	74	23.49	18.32	33	-14.68
				36	18	22.47	17.30	33	-15.7
				75	0	22.48	17.31	33	-15.69
	18900	1880	QPSK	1	0	23.38	18.21	33	-14.79
				1	74	23.42	18.25	33	-14.75
				36	18	22.54	17.37	33	-15.63
				75	0	22.51	17.34	33	-15.66
	19125	1902.5	QPSK	1	0	23.49	18.32	33	-14.68
				1	74	23.22	18.05	33	-14.95
				36	18	22.62	17.45	33	-15.55
				75	0	22.64	17.47	33	-15.53
	18675	1857.5	16QAM	1	0	22.81	17.64	33	-15.36
				1	74	22.85	17.68	33	-15.32
				36	18	21.58	16.41	33	-16.59
				75	0	21.59	16.42	33	-16.58
	18900	1880	16QAM	1	0	22.59	17.42	33	-15.58
				1	74	22.90	17.73	33	-15.27
				36	18	21.50	16.33	33	-16.67
				75	0	21.38	16.21	33	-16.79
	19125	1902.5	16QAM	1	0	22.50	17.33	33	-15.67
				1	74	22.83	17.66	33	-15.34
				36	18	21.64	16.47	33	-16.53
				75	0	21.72	16.55	33	-16.45

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

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Antenna gain (dBi) -5.17

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	18700	1860	QPSK	1	0	23.70	18.53	33	-14.47
				1	99	23.56	18.39	33	-14.61
				50	25	22.47	17.30	33	-15.7
				100	0	22.52	17.35	33	-15.65
	18900	1880	QPSK	1	0	23.66	18.49	33	-14.51
				1	99	23.54	18.37	33	-14.63
				50	25	22.56	17.39	33	-15.61
				100	0	22.62	17.45	33	-15.55
	19100	1900	QPSK	1	0	23.50	18.33	33	-14.67
				1	99	23.34	18.17	33	-14.83
				50	25	22.57	17.40	33	-15.6
				100	0	22.71	17.54	33	-15.46
	18700	1860	16QAM	1	0	22.47	17.30	33	-15.7
				1	99	22.75	17.58	33	-15.42
				50	25	21.50	16.33	33	-16.67
				100	0	21.42	16.25	33	-16.75
	18900	1880	16QAM	1	0	22.67	17.50	33	-15.5
				1	99	22.45	17.28	33	-15.72
				50	25	21.48	16.31	33	-16.69
				100	0	21.62	16.45	33	-16.55
	19100	1900	16QAM	1	0	22.51	17.34	33	-15.66
				1	99	22.40	17.23	33	-15.77
				50	25	21.59	16.42	33	-16.58
				100	0	21.66	16.49	33	-16.51

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Antenna gain (dBi) **-4.69**

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	19957	1710.7	QPSK	1	0	23.41	18.72	30	-11.28
				1	5	23.31	18.62	30	-11.38
				3	2	23.21	18.52	30	-11.48
				6	0	22.29	17.60	30	-12.4
	20175	1732.5	QPSK	1	0	23.34	18.65	30	-11.35
				1	5	23.51	18.82	30	-11.18
				3	2	23.34	18.65	30	-11.35
				6	0	22.39	17.70	30	-12.3
	20393	1754.3	QPSK	1	0	23.60	18.91	30	-11.09
				1	5	23.64	18.95	30	-11.05
				3	2	23.64	18.95	30	-11.05
				6	0	22.64	17.95	30	-12.05
	19957	1710.7	16QAM	1	0	22.94	18.25	30	-11.75
				1	5	22.53	17.84	30	-12.16
				3	2	22.33	17.64	30	-12.36
				6	0	21.55	16.86	30	-13.14
	20175	1732.5	16QAM	1	0	22.32	17.63	30	-12.37
				1	5	22.30	17.61	30	-12.39
				3	2	22.49	17.80	30	-12.2
				6	0	21.43	16.74	30	-13.26
	20393	1754.3	16QAM	1	0	22.53	17.84	30	-12.16
				1	5	22.51	17.82	30	-12.18
				3	2	22.81	18.12	30	-11.88
				6	0	21.72	17.03	30	-12.97

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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Antenna gain (dBi) -4.69

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	19965	1711.5	QPSK	1	0	23.19	18.50	30	-11.5
				1	14	23.25	18.56	30	-11.44
				8	4	22.17	17.48	30	-12.52
				15	0	22.25	17.56	30	-12.44
	20175	1732.5	QPSK	1	0	23.26	18.57	30	-11.43
				1	14	23.34	18.65	30	-11.35
				8	4	22.26	17.57	30	-12.43
				15	0	22.25	17.56	30	-12.44
	20385	1753.5	QPSK	1	0	23.47	18.78	30	-11.22
				1	14	23.44	18.75	30	-11.25
				8	4	22.56	17.87	30	-12.13
				15	0	22.48	17.79	30	-12.21
	19965	1711.5	16QAM	1	0	22.32	17.63	30	-12.37
				1	14	22.87	18.18	30	-11.82
				8	4	21.29	16.60	30	-13.4
				15	0	21.25	16.56	30	-13.44
	20175	1732.5	16QAM	1	0	22.86	18.17	30	-11.83
				1	14	22.48	17.79	30	-12.21
				8	4	21.29	16.60	30	-13.4
				15	0	21.34	16.65	30	-13.35
	20385	1753.5	16QAM	1	0	22.83	18.14	30	-11.86
				1	14	22.88	18.19	30	-11.81
				8	4	21.68	16.99	30	-13.01
				15	0	21.58	16.89	30	-13.11

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Antenna gain (dBi) -4.69

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	19975	1712.5	QPSK	1	0	23.42	18.73	30	-11.27
				1	24	23.47	18.78	30	-11.22
				12	6	22.45	17.76	30	-12.24
				25	0	22.51	17.82	30	-12.18
	20175	1732.5	QPSK	1	0	23.46	18.77	30	-11.23
				1	24	23.54	18.85	30	-11.15
				12	6	22.44	17.75	30	-12.25
				25	0	22.50	17.81	30	-12.19
	20375	1752.5	QPSK	1	0	23.49	18.80	30	-11.2
				1	24	23.53	18.84	30	-11.16
				12	6	22.63	17.94	30	-12.06
				25	0	22.57	17.88	30	-12.12
	19975	1712.5	16QAM	1	0	22.68	17.99	30	-12.01
				1	24	22.95	18.26	30	-11.74
				12	6	21.71	17.02	30	-12.98
				25	0	21.67	16.98	30	-13.02
	20175	1732.5	16QAM	1	0	22.58	17.89	30	-12.11
				1	24	22.69	18.00	30	-12
				12	6	21.55	16.86	30	-13.14
				25	0	21.49	16.80	30	-13.2
	20375	1752.5	16QAM	1	0	22.53	17.84	30	-12.16
				1	24	22.70	18.01	30	-11.99
				12	6	21.73	17.04	30	-12.96
				25	0	21.67	16.98	30	-13.02

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f (886-2) 2298-0488

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Antenna gain (dBi) -4.69

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20000	1715	QPSK	1	0	23.32	18.63	30	-11.37
				1	49	23.42	18.73	30	-11.27
				25	12	22.45	17.76	30	-12.24
				50	0	22.48	17.79	30	-12.21
	20175	1732.5	QPSK	1	0	23.51	18.82	30	-11.18
				1	49	23.53	18.84	30	-11.16
				25	12	22.43	17.74	30	-12.26
				50	0	22.42	17.73	30	-12.27
	20375	1750	QPSK	1	0	23.57	18.88	30	-11.12
				1	49	23.52	18.83	30	-11.17
				25	12	22.60	17.91	30	-12.09
				50	0	22.59	17.90	30	-12.1
	20000	1715	16QAM	1	0	22.94	18.25	30	-11.75
				1	49	22.73	18.04	30	-11.96
				25	12	21.53	16.84	30	-13.16
				50	0	21.52	16.83	30	-13.17
	20175	1732.5	16QAM	1	0	22.64	17.95	30	-12.05
				1	49	22.46	17.77	30	-12.23
				25	12	21.55	16.86	30	-13.14
				50	0	21.46	16.77	30	-13.23
	20375	1750	16QAM	1	0	22.89	18.20	30	-11.8
				1	49	22.75	18.06	30	-11.94
				25	12	21.81	17.12	30	-12.88
				50	0	21.64	16.95	30	-13.05

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f (886-2) 2298-0488

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Antenna gain (dBi) -4.69

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	20025	1717.5	QPSK	1	0	23.36	18.67	30	-11.33
				1	74	23.49	18.80	30	-11.2
				36	18	22.42	17.73	30	-12.27
				75	0	22.46	17.77	30	-12.23
	20175	1732.5	QPSK	1	0	23.45	18.76	30	-11.24
				1	74	23.41	18.72	30	-11.28
				36	18	22.39	17.70	30	-12.3
				75	0	22.43	17.74	30	-12.26
	20325	1747.5	QPSK	1	0	23.44	18.75	30	-11.25
				1	74	23.52	18.83	30	-11.17
				36	18	22.62	17.93	30	-12.07
				75	0	22.59	17.90	30	-12.1
	20025	1717.5	16QAM	1	0	22.42	17.73	30	-12.27
				1	74	22.69	18.00	30	-12
				36	18	21.50	16.81	30	-13.19
				75	0	21.53	16.84	30	-13.16
	20175	1732.5	16QAM	1	0	22.80	18.11	30	-11.89
				1	74	22.81	18.12	30	-11.88
				36	18	21.55	16.86	30	-13.14
				75	0	21.55	16.86	30	-13.14
	20325	1747.5	16QAM	1	0	22.95	18.26	30	-11.74
				1	74	22.66	17.97	30	-12.03
				36	18	21.60	16.91	30	-13.09
				75	0	21.60	16.91	30	-13.09

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Antenna gain (dBi) -4.69

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	20050	1720	QPSK	1	0	23.34	18.65	30	-11.35
				1	99	23.22	18.53	30	-11.47
				50	25	22.31	17.62	30	-12.38
				100	0	22.30	17.61	30	-12.39
	20175	1732.5	QPSK	1	0	23.17	18.48	30	-11.52
				1	99	23.65	18.96	30	-11.04
				50	25	22.38	17.69	30	-12.31
				100	0	22.39	17.70	30	-12.3
	20300	1745	QPSK	1	0	23.50	18.81	30	-11.19
				1	99	23.56	18.87	30	-11.13
				50	25	22.46	17.77	30	-12.23
				100	0	22.49	17.80	30	-12.2
	20050	1720	16QAM	1	0	22.61	17.92	30	-12.08
				1	99	22.57	17.88	30	-12.12
				50	25	21.29	16.60	30	-13.4
				100	0	21.32	16.63	30	-13.37
	20175	1732.5	16QAM	1	0	22.74	18.05	30	-11.95
				1	99	22.54	17.85	30	-12.15
				50	25	21.39	16.70	30	-13.3
				100	0	21.50	16.81	30	-13.19
	20300	1745	16QAM	1	0	22.78	18.09	30	-11.91
				1	99	22.61	17.92	30	-12.08
				50	25	21.55	16.86	30	-13.14
				100	0	21.56	16.87	30	-13.13

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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Antenna gain (dBi) **-3.61**

LTE Band 5_Uplink frequency band : 824 to 849 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	20407	824.7	QPSK	1	0	24.62	21.01	38.45	-17.44
				1	5	24.54	20.93	38.45	-17.52
				3	2	24.61	21.00	38.45	-17.45
				6	0	23.65	20.04	38.45	-18.41
	20525	836.5	QPSK	1	0	24.66	21.05	38.45	-17.4
				1	5	24.50	20.89	38.45	-17.56
				3	2	24.60	20.99	38.45	-17.46
				6	0	23.57	19.96	38.45	-18.49
	20643	848.3	QPSK	1	0	24.33	20.72	38.45	-17.73
				1	5	24.05	20.44	38.45	-18.01
				3	2	24.22	20.61	38.45	-17.84
				6	0	23.36	19.75	38.45	-18.7
	20407	824.7	16QAM	1	0	23.56	19.95	38.45	-18.5
				1	5	23.81	20.20	38.45	-18.25
				3	2	23.76	20.15	38.45	-18.3
				6	0	22.67	19.06	38.45	-19.39
	20525	836.5	16QAM	1	0	23.59	19.98	38.45	-18.47
				1	5	23.64	20.03	38.45	-18.42
				3	2	23.64	20.03	38.45	-18.42
				6	0	22.62	19.01	38.45	-19.44
	20643	848.3	16QAM	1	0	23.56	19.95	38.45	-18.5
				1	5	23.84	20.23	38.45	-18.22
				3	2	23.47	19.86	38.45	-18.59
				6	0	22.17	18.56	38.45	-19.89

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Antenna gain (dBi) -3.61

LTE Band 5_Uplink frequency band : 824 to 849 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	20415	825.5	QPSK	1	0	24.57	20.96	38.45	-17.49
				1	14	24.54	20.93	38.45	-17.52
				8	4	23.67	20.06	38.45	-18.39
				15	0	23.61	20.00	38.45	-18.45
	20525	836.5	QPSK	1	0	24.63	21.02	38.45	-17.43
				1	14	24.63	21.02	38.45	-17.43
				8	4	23.72	20.11	38.45	-18.34
				15	0	23.64	20.03	38.45	-18.42
	20635	847.5	QPSK	1	0	24.38	20.77	38.45	-17.68
				1	14	24.42	20.81	38.45	-17.64
				8	4	23.36	19.75	38.45	-18.7
				15	0	23.52	19.91	38.45	-18.54
	20415	825.5	16QAM	1	0	23.80	20.19	38.45	-18.26
				1	14	23.81	20.20	38.45	-18.25
				8	4	22.67	19.06	38.45	-19.39
				15	0	22.71	19.10	38.45	-19.35
	20525	836.5	16QAM	1	0	23.76	20.15	38.45	-18.3
				1	14	23.54	19.93	38.45	-18.52
				8	4	22.54	18.93	38.45	-19.52
				15	0	22.68	19.07	38.45	-19.38
	20635	847.5	16QAM	1	0	23.52	19.91	38.45	-18.54
				1	14	23.39	19.78	38.45	-18.67
				8	4	22.36	18.75	38.45	-19.7
				15	0	22.41	18.80	38.45	-19.65

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.tw.sgs.com

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Antenna gain (dBi) -3.61

LTE Band 5_Uplink frequency band : 824 to 849 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	20425	826.5	QPSK	1	0	24.73	21.12	38.45	-17.33
				1	24	24.92	21.31	38.45	-17.14
				12	6	23.78	20.17	38.45	-18.28
				25	0	23.80	20.19	38.45	-18.26
	20525	836.5	QPSK	1	0	24.57	20.96	38.45	-17.49
				1	24	24.61	21.00	38.45	-17.45
				12	6	23.83	20.22	38.45	-18.23
				25	0	23.83	20.22	38.45	-18.23
	20625	846.5	QPSK	1	0	24.34	20.73	38.45	-17.72
				1	24	24.32	20.71	38.45	-17.74
				12	6	23.57	19.96	38.45	-18.49
				25	0	23.59	19.98	38.45	-18.47
	20425	826.5	16QAM	1	0	23.76	20.15	38.45	-18.3
				1	24	23.18	19.57	38.45	-18.88
				12	6	22.79	19.18	38.45	-19.27
				25	0	22.71	19.10	38.45	-19.35
	20525	836.5	16QAM	1	0	23.33	19.72	38.45	-18.73
				1	24	23.94	20.33	38.45	-18.12
				12	6	22.94	19.33	38.45	-19.12
				25	0	22.85	19.24	38.45	-19.21
	20625	846.5	16QAM	1	0	23.64	20.03	38.45	-18.42
				1	24	23.52	19.91	38.45	-18.54
				12	6	22.73	19.12	38.45	-19.33
				25	0	22.69	19.08	38.45	-19.37

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f (886-2) 2298-0488

www.tw.sgs.com

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Antenna gain (dBi) -3.61

LTE Band 5_Uplink frequency band : 824 to 849 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20450	829	QPSK	1	0	24.67	21.06	38.45	-17.39
				1	49	24.69	21.08	38.45	-17.37
				25	12	23.71	20.10	38.45	-18.35
				50	0	23.70	20.09	38.45	-18.36
	20525	836.5	QPSK	1	0	24.62	21.01	38.45	-17.44
				1	49	24.66	21.05	38.45	-17.4
				25	12	23.78	20.17	38.45	-18.28
				50	0	23.78	20.17	38.45	-18.28
	20600	844	QPSK	1	0	24.35	20.74	38.45	-17.71
				1	49	24.57	20.96	38.45	-17.49
				25	12	23.57	19.96	38.45	-18.49
				50	0	23.63	20.02	38.45	-18.43
	20450	829	16QAM	1	0	23.99	20.38	38.45	-18.07
				1	49	23.73	20.12	38.45	-18.33
				25	12	22.86	19.25	38.45	-19.2
				50	0	22.69	19.08	38.45	-19.37
	20525	836.5	16QAM	1	0	23.94	20.33	38.45	-18.12
				1	49	23.89	20.28	38.45	-18.17
				25	12	22.73	19.12	38.45	-19.33
				50	0	22.73	19.12	38.45	-19.33
	20600	844	16QAM	1	0	23.42	19.81	38.45	-18.64
				1	49	23.88	20.27	38.45	-18.18
				25	12	22.61	19.00	38.45	-19.45
				50	0	22.68	19.07	38.45	-19.38

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Antenna gain (dBi) **-4.62**

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	20775	2502.5	QPSK	1	0	23.88	19.26	33	-13.74
				1	24	23.80	19.18	33	-13.82
				12	6	22.96	18.34	33	-14.66
				25	0	22.73	18.11	33	-14.89
	21100	2535	QPSK	1	0	23.31	18.69	33	-14.31
				1	24	23.16	18.54	33	-14.46
				12	6	22.16	17.54	33	-15.46
	21375	2567.5	QPSK	25	0	22.15	17.53	33	-15.47
				1	0	23.69	19.07	33	-13.93
				1	24	23.49	18.87	33	-14.13
	20775	2502.5	16QAM	12	6	22.55	17.93	33	-15.07
				25	0	22.57	17.95	33	-15.05
				1	0	22.70	18.08	33	-14.92
				1	24	22.28	17.66	33	-15.34
	21100	2535	16QAM	12	6	21.96	17.34	33	-15.66
				25	0	21.91	17.29	33	-15.71
				1	0	22.19	17.57	33	-15.43
	21375	2567.5	16QAM	1	24	22.35	17.73	33	-15.27
				12	6	21.11	16.49	33	-16.51
				25	0	21.18	16.56	33	-16.44
1				0	22.84	18.22	33	-14.78	
21100	2535	16QAM	1	24	22.02	17.40	33	-15.6	
			12	6	21.61	16.99	33	-16.01	
			25	0	21.53	16.91	33	-16.09	

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Antenna gain (dBi) -4.62

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20800	2505	QPSK	1	0	23.67	19.05	33	-13.95
				1	49	23.69	19.07	33	-13.93
				25	12	22.14	17.52	33	-15.48
				50	0	22.18	17.56	33	-15.44
	21100	2535	QPSK	1	0	23.22	18.60	33	-14.4
				1	49	23.24	18.62	33	-14.38
				25	12	22.37	17.75	33	-15.25
				50	0	22.34	17.72	33	-15.28
	21350	2565	QPSK	1	0	23.47	18.85	33	-14.15
				1	49	23.52	18.90	33	-14.1
				25	12	22.76	18.14	33	-14.86
				50	0	22.75	18.13	33	-14.87
	20800	2505	16QAM	1	0	22.81	18.19	33	-14.81
				1	49	22.33	17.71	33	-15.29
				25	12	21.25	16.63	33	-16.37
				50	0	21.10	16.48	33	-16.52
	21100	2535	16QAM	1	0	22.55	17.93	33	-15.07
				1	49	22.66	18.04	33	-14.96
				25	12	21.43	16.81	33	-16.19
				50	0	21.44	16.82	33	-16.18
21350	2565	16QAM	1	0	22.96	18.34	33	-14.66	
			1	49	22.86	18.24	33	-14.76	
			25	12	21.78	17.16	33	-15.84	
			50	0	21.74	17.12	33	-15.88	

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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Antenna gain (dBi) -4.62

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	20825	2507.5	QPSK	1	0	23.97	19.35	33	-13.65
				1	74	23.70	19.08	33	-13.92
				36	18	22.21	17.59	33	-15.41
				75	0	22.25	17.63	33	-15.37
	21100	2535	QPSK	1	0	23.22	18.60	33	-14.4
				1	74	23.50	18.88	33	-14.12
				36	18	22.45	17.83	33	-15.17
				75	0	22.43	17.81	33	-15.19
	21375	2562.5	QPSK	1	0	23.87	19.25	33	-13.75
				1	74	23.61	18.99	33	-14.01
				36	18	22.84	18.22	33	-14.78
				75	0	22.88	18.26	33	-14.74
	20825	2507.5	16QAM	1	0	22.82	18.20	33	-14.8
				1	74	22.46	17.84	33	-15.16
				36	18	21.19	16.57	33	-16.43
				75	0	21.22	16.60	33	-16.4
	21100	2535	16QAM	1	0	22.30	17.68	33	-15.32
				1	74	22.71	18.09	33	-14.91
				36	18	21.54	16.92	33	-16.08
				75	0	21.44	16.82	33	-16.18
	21375	2562.5	16QAM	1	0	22.20	17.58	33	-15.42
				1	74	22.22	17.60	33	-15.4
				36	18	21.80	17.18	33	-15.82
				75	0	21.83	17.21	33	-15.79

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Antenna gain (dBi) -4.62

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	20850	2510	QPSK	1	0	23.79	19.17	33	-13.83
				1	99	23.36	18.74	33	-14.26
				50	25	22.95	18.33	33	-14.67
				100	0	22.52	17.90	33	-15.1
	21100	2535	QPSK	1	0	23.14	18.52	33	-14.48
				1	99	23.42	18.80	33	-14.2
				50	25	22.45	17.83	33	-15.17
				100	0	22.48	17.86	33	-15.14
	21350	2560	QPSK	1	0	23.98	19.36	33	-13.64
				1	99	23.85	19.23	33	-13.77
				50	25	22.95	18.33	33	-14.67
				100	0	22.56	17.94	33	-15.06
	20850	2510	16QAM	1	0	22.95	18.33	33	-14.67
				1	99	22.36	17.74	33	-15.26
				50	25	21.97	17.35	33	-15.65
				100	0	21.12	16.50	33	-16.5
	21100	2535	16QAM	1	0	22.50	17.88	33	-15.12
				1	99	22.95	18.33	33	-14.67
				50	25	21.53	16.91	33	-16.09
				100	0	21.57	16.95	33	-16.05
21350	2560	16QAM	1	0	22.02	17.40	33	-15.6	
			1	99	22.73	18.11	33	-14.89	
			50	25	21.94	17.32	33	-15.68	
			100	0	21.01	16.39	33	-16.61	

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Antenna gain (dBi) **-5.57**

LTE Band 12_Uplink frequency band : 699 to 716 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	23017	699.7	QPSK	1	0	23.31	17.74	34.77	-17.03
				1	5	23.43	17.86	34.77	-16.91
				3	2	23.32	17.75	34.77	-17.02
				6	0	22.35	16.78	34.77	-17.99
	23095	707.5	QPSK	1	0	23.92	18.35	34.77	-16.42
				1	5	23.75	18.18	34.77	-16.59
				3	2	23.73	18.16	34.77	-16.61
				6	0	22.78	17.21	34.77	-17.56
	23173	715.5	QPSK	1	0	23.92	18.35	34.77	-16.42
				1	5	23.65	18.08	34.77	-16.69
				3	2	24.00	18.43	34.77	-16.34
				6	0	22.64	17.07	34.77	-17.7
	23017	699.7	16QAM	1	0	22.56	16.99	34.77	-17.78
				1	5	22.63	17.06	34.77	-17.71
				3	2	22.31	16.74	34.77	-18.03
				6	0	21.32	15.75	34.77	-19.02
	23095	707.5	16QAM	1	0	22.89	17.32	34.77	-17.45
				1	5	22.95	17.38	34.77	-17.39
				3	2	22.77	17.20	34.77	-17.57
				6	0	21.70	16.13	34.77	-18.64
	23173	715.5	16QAM	1	0	22.83	17.26	34.77	-17.51
				1	5	22.41	16.84	34.77	-17.93
				3	2	22.92	17.35	34.77	-17.42
				6	0	21.43	15.86	34.77	-18.91

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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Antenna gain (dBi) -5.57

LTE Band 12_Uplink frequency band : 699 to 716 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	23025	700.5	QPSK	1	0	23.24	17.67	34.77	-17.1
				1	14	23.41	17.84	34.77	-16.93
				8	4	22.38	16.81	34.77	-17.96
				15	0	22.37	16.80	34.77	-17.97
	23095	707.5	QPSK	1	0	23.60	18.03	34.77	-16.74
				1	14	23.70	18.13	34.77	-16.64
				8	4	22.68	17.11	34.77	-17.66
				15	0	22.80	17.23	34.77	-17.54
	23165	714.5	QPSK	1	0	23.67	18.10	34.77	-16.67
				1	14	23.71	18.14	34.77	-16.63
				8	4	22.52	16.95	34.77	-17.82
				15	0	22.57	17.00	34.77	-17.77
	23025	700.5	16QAM	1	0	22.45	16.88	34.77	-17.89
				1	14	22.36	16.79	34.77	-17.98
				8	4	21.49	15.92	34.77	-18.85
				15	0	21.40	15.83	34.77	-18.94
	23095	707.5	16QAM	1	0	22.73	17.16	34.77	-17.61
				1	14	22.47	16.90	34.77	-17.87
				8	4	21.82	16.25	34.77	-18.52
				15	0	21.86	16.29	34.77	-18.48
	23165	714.5	16QAM	1	0	22.41	16.84	34.77	-17.93
				1	14	22.34	16.77	34.77	-18
				8	4	21.42	15.85	34.77	-18.92
				15	0	21.96	16.39	34.77	-18.38

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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Antenna gain (dBi) -5.57

LTE Band 12_Uplink frequency band : 699 to 716 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	23035	701.5	QPSK	1	0	23.21	17.64	34.77	-17.13
				1	24	23.72	18.15	34.77	-16.62
				12	6	22.61	17.04	34.77	-17.73
				25	0	22.70	17.13	34.77	-17.64
	23095	707.5	QPSK	1	0	23.72	18.15	34.77	-16.62
				1	24	23.85	18.28	34.77	-16.49
				12	6	22.89	17.32	34.77	-17.45
				25	0	22.89	17.32	34.77	-17.45
	23155	713.5	QPSK	1	0	23.96	18.39	34.77	-16.38
				1	24	23.54	17.97	34.77	-16.8
				12	6	22.86	17.29	34.77	-17.48
				25	0	22.65	17.08	34.77	-17.69
	23035	701.5	16QAM	1	0	22.37	16.80	34.77	-17.97
				1	24	22.90	17.33	34.77	-17.44
				12	6	21.75	16.18	34.77	-18.59
				25	0	21.73	16.16	34.77	-18.61
	23095	707.5	16QAM	1	0	22.61	17.04	34.77	-17.73
				1	24	22.97	17.40	34.77	-17.37
				12	6	22.00	16.43	34.77	-18.34
				25	0	21.88	16.31	34.77	-18.46
	23155	713.5	16QAM	1	0	22.45	16.88	34.77	-17.89
				1	24	22.31	16.74	34.77	-18.03
				12	6	21.53	15.96	34.77	-18.81
				25	0	21.68	16.11	34.77	-18.66

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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Antenna gain (dBi) -5.57

LTE Band 12_Uplink frequency band : 699 to 716 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	23060	704	QPSK	1	0	23.58	18.01	34.77	-16.76
				1	49	23.83	18.26	34.77	-16.51
				25	12	22.87	17.30	34.77	-17.47
				50	0	22.90	17.33	34.77	-17.44
	23095	707.5	QPSK	1	0	23.59	18.02	34.77	-16.75
				1	49	23.61	18.04	34.77	-16.73
				25	12	22.87	17.30	34.77	-17.47
				50	0	22.85	17.28	34.77	-17.49
	23130	711	QPSK	1	0	23.68	18.11	34.77	-16.66
				1	49	23.42	17.85	34.77	-16.92
				25	12	22.75	17.18	34.77	-17.59
				50	0	22.62	17.05	34.77	-17.72
	23060	704	16QAM	1	0	22.80	17.23	34.77	-17.54
				1	49	22.46	16.89	34.77	-17.88
				25	12	21.81	16.24	34.77	-18.53
				50	0	21.85	16.28	34.77	-18.49
	23095	707.5	16QAM	1	0	22.73	17.16	34.77	-17.61
				1	49	22.99	17.42	34.77	-17.35
				25	12	21.92	16.35	34.77	-18.42
				50	0	21.94	16.37	34.77	-18.4
	23130	711	16QAM	1	0	22.75	17.18	34.77	-17.59
				1	49	22.61	17.04	34.77	-17.73
				25	12	21.22	15.65	34.77	-19.12
				50	0	21.72	16.15	34.77	-18.62

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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Antenna gain (dBi) **-5.71**

LTE Band 13_Uplink frequency band : 777 to 787 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	23205	779.5	QPSK	1	0	23.61	17.90	34.77	-16.87
				1	24	23.83	18.12	34.77	-16.65
				12	6	22.60	16.89	34.77	-17.88
				25	0	22.66	16.95	34.77	-17.82
	23230	782	QPSK	1	0	23.58	17.87	34.77	-16.9
				1	24	23.71	18.00	34.77	-16.77
				12	6	22.68	16.97	34.77	-17.8
				25	0	22.71	17.00	34.77	-17.77
	23255	784.5	QPSK	1	0	23.81	18.10	34.77	-16.67
				1	24	23.88	18.17	34.77	-16.6
				12	6	22.82	17.11	34.77	-17.66
				25	0	22.82	17.11	34.77	-17.66
	23205	779.5	16QAM	1	0	22.97	17.26	34.77	-17.51
				1	24	22.93	17.22	34.77	-17.55
				12	6	21.69	15.98	34.77	-18.79
				25	0	21.63	15.92	34.77	-18.85
	23230	782	16QAM	1	0	22.81	17.10	34.77	-17.67
				1	24	22.36	16.65	34.77	-18.12
				12	6	21.67	15.96	34.77	-18.81
				25	0	21.76	16.05	34.77	-18.72
	23255	784.5	16QAM	1	0	22.78	17.07	34.77	-17.7
				1	24	22.42	16.71	34.77	-18.06
				12	6	21.89	16.18	34.77	-18.59
				25	0	21.89	16.18	34.77	-18.59

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Antenna gain (dBi) -5.71

LTE Band 13_Uplink frequency band : 777 to 787 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	23230	782	QPSK	1	0	23.77	18.06	34.77	-16.71
				1	49	23.45	17.74	34.77	-17.03
				25	12	22.95	17.24	34.77	-17.53
				50	0	22.97	17.26	34.77	-17.51
	23230	782	16QAM	1	0	22.45	16.74	34.77	-18.03
				1	49	22.70	16.99	34.77	-17.78
				25	12	21.52	15.81	34.77	-18.96
				50	0	21.99	16.28	34.77	-18.49

Antenna gain (dBi) **-5.58**

LTE Band 14_Uplink frequency band : 788 to 798 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	23305	790.5	QPSK	1	0	23.62	17.91	34.77	-16.86
				1	24	23.66	17.95	34.77	-16.82
				12	6	22.52	16.81	34.77	-17.96
				25	0	22.69	16.98	34.77	-17.79
	23330	793	QPSK	1	0	23.52	17.81	34.77	-16.96
				1	24	23.51	17.80	34.77	-16.97
				12	6	22.63	16.92	34.77	-17.85
	23355	795.5	QPSK	1	0	23.47	17.76	34.77	-17.01
				1	24	22.58	16.87	34.77	-17.9
				12	6	22.60	16.89	34.77	-17.88
	23305	790.5	16QAM	1	0	22.72	17.01	34.77	-17.76
				1	24	22.84	17.13	34.77	-17.64
				12	6	21.54	15.83	34.77	-18.94
	23330	793	16QAM	1	0	21.65	15.94	34.77	-18.83
				1	0	22.92	17.21	34.77	-17.56
				1	24	22.81	17.10	34.77	-17.67
	23355	795.5	16QAM	12	6	21.83	16.12	34.77	-18.65
				25	0	21.69	15.98	34.77	-18.79
				1	0	22.64	16.93	34.77	-17.84
	23355	795.5	16QAM	1	24	21.61	15.90	34.77	-18.87
				12	6	21.54	15.83	34.77	-18.94
				25	0	21.73	16.02	34.77	-18.75

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Antenna gain (dBi) -5.58

LTE Band 14_Uplink frequency band : 788 to 798 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	23330	793	QPSK	1	0	23.97	18.26	34.77	-16.51
				1	49	23.61	17.90	34.77	-16.87
				25	12	22.76	17.05	34.77	-17.72
				50	0	22.77	17.06	34.77	-17.71
	23330	793	16QAM	1	0	22.98	17.27	34.77	-17.5
				1	49	22.49	16.78	34.77	-17.99
				25	12	21.75	16.04	34.77	-18.73
				50	0	21.73	16.02	34.77	-18.75

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Antenna gain (dBi) **-5.57**

LTE Band 17_Uplink frequency band : 704 to 716 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	23755	706.5	QPSK	1	0	23.57	18.00	34.77	-16.77
				1	24	23.74	18.17	34.77	-16.6
				12	6	22.73	17.16	34.77	-17.61
				25	0	22.82	17.25	34.77	-17.52
	23790	710	QPSK	1	0	23.96	18.39	34.77	-16.38
				1	24	23.81	18.24	34.77	-16.53
				12	6	22.70	17.13	34.77	-17.64
				25	0	22.41	16.84	34.77	-17.93
	23825	713.5	QPSK	1	0	23.69	18.12	34.77	-16.65
				1	24	22.91	17.34	34.77	-17.43
				12	6	22.87	17.30	34.77	-17.47
				25	0	22.67	17.10	34.77	-17.67
	23755	706.5	16QAM	1	0	22.54	16.97	34.77	-17.8
				1	24	22.97	17.40	34.77	-17.37
				12	6	21.99	16.42	34.77	-18.35
				25	0	21.63	16.06	34.77	-18.71
	23790	710	16QAM	1	0	22.37	16.80	34.77	-17.97
				1	24	22.43	16.86	34.77	-17.91
				12	6	21.52	15.95	34.77	-18.82
				25	0	21.77	16.20	34.77	-18.57
	23825	713.5	16QAM	1	0	22.84	17.27	34.77	-17.5
				1	24	21.78	16.21	34.77	-18.56
				12	6	21.84	16.27	34.77	-18.5
				25	0	21.45	15.88	34.77	-18.89

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台灣檢驗科技股份有限公司

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f (886-2) 2298-0488

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Antenna gain (dBi) -5.57

LTE Band 17_Uplink frequency band : 704 to 716 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	23780	709	QPSK	1	0	23.69	18.12	34.77	-16.65
				1	49	23.84	18.27	34.77	-16.5
				25	12	22.90	17.33	34.77	-17.44
				50	0	22.75	17.18	34.77	-17.59
	23790	710	QPSK	1	0	23.66	18.09	34.77	-16.68
				1	49	23.77	18.20	34.77	-16.57
				25	12	22.38	16.81	34.77	-17.96
				50	0	22.85	17.28	34.77	-17.49
	23800	711	QPSK	1	0	23.98	18.41	34.77	-16.36
				1	49	22.84	17.27	34.77	-17.5
				25	12	22.47	16.90	34.77	-17.87
				50	0	22.97	17.40	34.77	-17.37
	23780	709	16QAM	1	0	22.80	17.23	34.77	-17.54
				1	49	22.58	17.01	34.77	-17.76
				25	12	21.83	16.26	34.77	-18.51
				50	0	21.75	16.18	34.77	-18.59
	23790	710	16QAM	1	0	22.84	17.27	34.77	-17.5
				1	49	22.64	17.07	34.77	-17.7
				25	12	21.77	16.20	34.77	-18.57
				50	0	21.42	15.85	34.77	-18.92
	23800	711	16QAM	1	0	22.90	17.33	34.77	-17.44
				1	49	21.86	16.29	34.77	-18.48
				25	12	21.56	15.99	34.77	-18.78
				50	0	21.64	16.07	34.77	-18.7

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t (886-2) 2299-3279

f (886-2) 2298-0488

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Antenna gain (dBi) **-5.17**

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	26047	1850.7	QPSK	1	0	23.85	18.68	33	-14.32
				1	5	23.83	18.66	33	-14.34
				3	2	23.90	18.73	33	-14.27
				6	0	22.94	17.77	33	-15.23
	26365	1882.5	QPSK	1	0	23.95	18.78	33	-14.22
				1	5	23.95	18.78	33	-14.22
				3	2	23.92	18.75	33	-14.25
				6	0	22.96	17.79	33	-15.21
	26683	1914.3	QPSK	1	0	23.83	18.66	33	-14.34
				1	5	23.87	18.70	33	-14.3
				3	2	23.79	18.62	33	-14.38
				6	0	22.92	17.75	33	-15.25
	26047	1850.7	16QAM	1	0	22.93	17.76	33	-15.24
				1	5	22.88	17.71	33	-15.29
				3	2	22.93	17.76	33	-15.24
				6	0	21.89	16.72	33	-16.28
	26365	1882.5	16QAM	1	0	22.81	17.64	33	-15.36
				1	5	22.87	17.70	33	-15.3
				3	2	22.83	17.66	33	-15.34
				6	0	21.81	16.64	33	-16.36
	26683	1914.3	16QAM	1	0	22.94	17.77	33	-15.23
				1	5	22.91	17.74	33	-15.26
				3	2	22.98	17.81	33	-15.19
				6	0	21.84	16.67	33	-16.33

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f (886-2) 2298-0488

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Antenna gain (dBi)									
-5.17									
LTE Band 25_Uplink frequency band : 1850 to 1915 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	26055	1851.5	QPSK	1	0	23.83	18.66	33	-14.34
				1	14	23.87	18.70	33	-14.3
				8	4	22.90	17.73	33	-15.27
				15	0	22.96	17.79	33	-15.21
	26365	1882.5	QPSK	1	0	23.94	18.77	33	-14.23
				1	14	23.90	18.73	33	-14.27
				8	4	22.80	17.63	33	-15.37
				15	0	22.85	17.68	33	-15.32
	26675	1913.5	QPSK	1	0	23.87	18.70	33	-14.3
				1	14	23.88	18.71	33	-14.29
				8	4	22.85	17.68	33	-15.32
				15	0	22.84	17.67	33	-15.33
	26055	1851.5	16QAM	1	0	22.79	17.62	33	-15.38
				1	14	22.92	17.75	33	-15.25
				8	4	21.85	16.68	33	-16.32
				15	0	21.85	16.68	33	-16.32
	26365	1882.5	16QAM	1	0	22.92	17.75	33	-15.25
				1	14	22.85	17.68	33	-15.32
				8	4	21.94	16.77	33	-16.23
				15	0	21.90	16.73	33	-16.27
	26675	1913.5	16QAM	1	0	22.91	17.74	33	-15.26
				1	14	22.85	17.68	33	-15.32
				8	4	21.81	16.64	33	-16.36
				15	0	21.99	16.82	33	-16.18

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f (886-2) 2298-0488

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Antenna gain (dBi)		-5.17							
LTE Band 25_Uplink frequency band : 1850 to 1915 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	26065	1852.5	QPSK	1	0	23.95	18.78	33	-14.22
				1	24	23.90	18.73	33	-14.27
				12	6	22.92	17.75	33	-15.25
				25	0	22.90	17.73	33	-15.27
	26365	1882.5	QPSK	1	0	23.91	18.74	33	-14.26
				1	24	23.92	18.75	33	-14.25
				12	6	22.98	17.81	33	-15.19
				25	0	22.84	17.67	33	-15.33
	26665	1912.5	QPSK	1	0	23.90	18.73	33	-14.27
				1	24	23.87	18.70	33	-14.3
				12	6	22.89	17.72	33	-15.28
				25	0	22.79	17.62	33	-15.38
	26065	1852.5	16QAM	1	0	22.89	17.72	33	-15.28
				1	24	22.99	17.82	33	-15.18
				12	6	21.88	16.71	33	-16.29
				25	0	21.88	16.71	33	-16.29
	26365	1882.5	16QAM	1	0	22.92	17.75	33	-15.25
				1	24	22.80	17.63	33	-15.37
				12	6	21.91	16.74	33	-16.26
				25	0	21.92	16.75	33	-16.25
	26665	1912.5	16QAM	1	0	22.80	17.63	33	-15.37
				1	24	22.94	17.77	33	-15.23
				12	6	21.92	16.75	33	-16.25
				25	0	21.95	16.78	33	-16.22

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Antenna gain (dBi)									
-5.17									
LTE Band 25_Uplink frequency band : 1850 to 1915 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	26090	1855	QPSK	1	0	23.84	18.67	33	-14.33
				1	49	23.84	18.67	33	-14.33
				25	12	22.94	17.77	33	-15.23
				50	0	22.89	17.72	33	-15.28
	26365	1882.5	QPSK	1	0	23.84	18.67	33	-14.33
				1	49	23.90	18.73	33	-14.27
				25	12	22.93	17.76	33	-15.24
				50	0	22.83	17.66	33	-15.34
	26640	1910	QPSK	1	0	23.84	18.67	33	-14.33
				1	49	23.90	18.73	33	-14.27
				25	12	22.97	17.80	33	-15.2
				50	0	22.94	17.77	33	-15.23
	26090	1855	16QAM	1	0	22.81	17.64	33	-15.36
				1	49	22.84	17.67	33	-15.33
				25	12	21.80	16.63	33	-16.37
				50	0	21.84	16.67	33	-16.33
	26365	1882.5	16QAM	1	0	22.83	17.66	33	-15.34
				1	49	22.98	17.81	33	-15.19
				25	12	21.83	16.66	33	-16.34
				50	0	21.87	16.70	33	-16.3
26640	1910	16QAM	1	0	22.83	17.66	33	-15.34	
			1	49	22.90	17.73	33	-15.27	
			25	12	21.88	16.71	33	-16.29	
			50	0	21.95	16.78	33	-16.22	

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Antenna gain (dBi)		-5.17							
LTE Band 25_Uplink frequency band : 1850 to 1915 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	26115	1857.5	QPSK	1	0	23.83	18.66	33	-14.34
				1	74	23.94	18.77	33	-14.23
				36	18	22.96	17.79	33	-15.21
				75	0	22.88	17.71	33	-15.29
	26365	1882.5	QPSK	1	0	23.93	18.76	33	-14.24
				1	74	23.92	18.75	33	-14.25
				36	18	22.94	17.77	33	-15.23
				75	0	22.87	17.70	33	-15.3
	26615	1907.5	QPSK	1	0	23.88	18.71	33	-14.29
				1	74	23.93	18.76	33	-14.24
				36	18	22.83	17.66	33	-15.34
				75	0	22.79	17.62	33	-15.38
	26115	1857.5	16QAM	1	0	22.93	17.76	33	-15.24
				1	74	22.88	17.71	33	-15.29
				36	18	21.97	16.80	33	-16.2
				75	0	21.89	16.72	33	-16.28
	26365	1882.5	16QAM	1	0	22.89	17.72	33	-15.28
				1	74	22.92	17.75	33	-15.25
				36	18	21.98	16.81	33	-16.19
				75	0	21.82	16.65	33	-16.35
26615	1907.5	16QAM	1	0	22.92	17.75	33	-15.25	
			1	74	22.95	17.78	33	-15.22	
			36	18	21.80	16.63	33	-16.37	
			75	0	21.92	16.75	33	-16.25	

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Antenna gain (dBi)									
-5.17									
LTE Band 25_Uplink frequency band : 1850 to 1915 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	26140	1860	QPSK	1	0	23.95	18.78	33	-14.22
				1	99	23.84	18.67	33	-14.33
				50	25	22.87	17.70	33	-15.3
				100	0	22.96	17.79	33	-15.21
	26365	1882.5	QPSK	1	0	23.96	18.79	33	-14.21
				1	99	23.83	18.66	33	-14.34
				50	25	22.94	17.77	33	-15.23
				100	0	22.92	17.75	33	-15.25
	26590	1905	QPSK	1	0	23.79	18.62	33	-14.38
				1	99	23.83	18.66	33	-14.34
				50	25	22.93	17.76	33	-15.24
				100	0	22.80	17.63	33	-15.37
	26140	1860	16QAM	1	0	22.88	17.71	33	-15.29
				1	99	22.87	17.70	33	-15.3
				50	25	21.93	16.76	33	-16.24
				100	0	21.80	16.63	33	-16.37
	26365	1882.5	16QAM	1	0	22.87	17.70	33	-15.3
				1	99	22.80	17.63	33	-15.37
				50	25	21.93	16.76	33	-16.24
				100	0	21.80	16.63	33	-16.37
26590	1905	16QAM	1	0	22.83	17.66	33	-15.34	
			1	99	22.80	17.63	33	-15.37	
			50	25	21.81	16.64	33	-16.36	
			100	0	21.81	16.64	33	-16.36	

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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Antenna gain (dBi) **-3.61**

LTE Band 26_Uplink frequency band : 824 to 849 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	26797	824.7	QPSK	1	0	23.89	20.28	38.45	-18.17
				1	5	23.95	20.34	38.45	-18.11
				3	2	23.86	20.25	38.45	-18.2
				6	0	22.80	19.19	38.45	-19.26
	26915	836.5	QPSK	1	0	24.14	20.53	38.45	-17.92
				1	5	24.08	20.47	38.45	-17.98
				3	2	24.03	20.42	38.45	-18.03
				6	0	23.06	19.45	38.45	-19
	27033	848.3	QPSK	1	0	24.04	20.43	38.45	-18.02
				1	5	23.88	20.27	38.45	-18.18
				3	2	24.04	20.43	38.45	-18.02
				6	0	23.12	19.51	38.45	-18.94
	26797	824.7	16QAM	1	0	23.10	19.49	38.45	-18.96
				1	5	23.26	19.65	38.45	-18.8
				3	2	23.04	19.43	38.45	-19.02
				6	0	21.99	18.38	38.45	-20.07
	26915	836.5	16QAM	1	0	23.52	19.91	38.45	-18.54
				1	5	23.33	19.72	38.45	-18.73
				3	2	23.26	19.65	38.45	-18.8
				6	0	22.25	18.64	38.45	-19.81
	27033	848.3	16QAM	1	0	23.28	19.67	38.45	-18.78
				1	5	23.12	19.51	38.45	-18.94
				3	2	23.01	19.40	38.45	-19.05
				6	0	22.11	18.50	38.45	-19.95

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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Antenna gain (dBi) -3.61

LTE Band 26_Uplink frequency band : 824 to 849 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	26805	825.5	QPSK	1	0	24.05	20.44	38.45	-18.01
				1	14	23.88	20.27	38.45	-18.18
				8	4	23.08	19.47	38.45	-18.98
				15	0	23.08	19.47	38.45	-18.98
	26915	836.5	QPSK	1	0	24.18	20.57	38.45	-17.88
				1	14	24.06	20.45	38.45	-18
				8	4	23.15	19.54	38.45	-18.91
				15	0	23.13	19.52	38.45	-18.93
	27025	847.5	QPSK	1	0	23.93	20.32	38.45	-18.13
				1	14	23.72	20.11	38.45	-18.34
				8	4	23.06	19.45	38.45	-19
				15	0	23.14	19.53	38.45	-18.92
	26805	825.5	16QAM	1	0	23.41	19.80	38.45	-18.65
				1	14	23.11	19.50	38.45	-18.95
				8	4	22.10	18.49	38.45	-19.96
				15	0	22.05	18.44	38.45	-20.01
	26915	836.5	16QAM	1	0	23.24	19.63	38.45	-18.82
				1	14	23.64	20.03	38.45	-18.42
				8	4	22.10	18.49	38.45	-19.96
				15	0	21.95	18.34	38.45	-20.11
	27025	847.5	16QAM	1	0	23.44	19.83	38.45	-18.62
				1	14	23.01	19.40	38.45	-19.05
				8	4	22.26	18.65	38.45	-19.8
				15	0	22.14	18.53	38.45	-19.92

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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Antenna gain (dBi) -3.61

LTE Band 26_Uplink frequency band : 824 to 849 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	26815	826.5	QPSK	1	0	23.86	20.25	38.45	-18.2
				1	24	23.84	20.23	38.45	-18.22
				12	6	22.81	19.20	38.45	-19.25
				25	0	23.03	19.42	38.45	-19.03
	26915	836.5	QPSK	1	0	23.97	20.36	38.45	-18.09
				1	24	24.17	20.56	38.45	-17.89
				12	6	23.12	19.51	38.45	-18.94
				25	0	23.11	19.50	38.45	-18.95
	27015	846.5	QPSK	1	0	24.15	20.54	38.45	-17.91
				1	24	23.77	20.16	38.45	-18.29
				12	6	23.15	19.54	38.45	-18.91
				25	0	23.12	19.51	38.45	-18.94
	26815	826.5	16QAM	1	0	23.41	19.80	38.45	-18.65
				1	24	23.76	20.15	38.45	-18.3
				12	6	21.99	18.38	38.45	-20.07
				25	0	22.14	18.53	38.45	-19.92
	26915	836.5	16QAM	1	0	23.62	20.01	38.45	-18.44
				1	24	23.57	19.96	38.45	-18.49
				12	6	22.36	18.75	38.45	-19.7
				25	0	22.23	18.62	38.45	-19.83
27015	846.5	16QAM	1	0	23.14	19.53	38.45	-18.92	
			1	24	23.21	19.60	38.45	-18.85	
			12	6	22.09	18.48	38.45	-19.97	
			25	0	22.34	18.73	38.45	-19.72	

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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Antenna gain (dBi) -3.61

LTE Band 26_Uplink frequency band : 824 to 849 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	26840	829	QPSK	1	0	23.90	20.29	38.45	-18.16
				1	49	24.06	20.45	38.45	-18
				25	12	23.08	19.47	38.45	-18.98
				50	0	23.07	19.46	38.45	-18.99
	26915	836.5	QPSK	1	0	23.86	20.25	38.45	-18.2
				1	49	24.28	20.67	38.45	-17.78
				25	12	23.13	19.52	38.45	-18.93
				50	0	23.12	19.51	38.45	-18.94
	26990	844	QPSK	1	0	24.33	20.72	38.45	-17.73
				1	49	24.33	20.72	38.45	-17.73
				25	12	23.15	19.54	38.45	-18.91
				50	0	23.18	19.57	38.45	-18.88
	26840	829	16QAM	1	0	23.09	19.48	38.45	-18.97
				1	49	23.43	19.82	38.45	-18.63
				25	12	22.02	18.41	38.45	-20.04
				50	0	22.19	18.58	38.45	-19.87
	26915	836.5	16QAM	1	0	23.48	19.87	38.45	-18.58
				1	49	23.51	19.90	38.45	-18.55
				25	12	22.23	18.62	38.45	-19.83
				50	0	22.16	18.55	38.45	-19.9
	26990	844	16QAM	1	0	23.34	19.73	38.45	-18.72
				1	49	23.42	19.81	38.45	-18.64
				25	12	22.20	18.59	38.45	-19.86
				50	0	22.15	18.54	38.45	-19.91

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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Antenna gain (dBi) -3.61

LTE Band 26_Uplink frequency band : 824 to 849 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	26865	831.5	QPSK	1	0	24.16	20.55	38.45	-17.9
				1	74	24.41	20.80	38.45	-17.65
				36	18	23.21	19.60	38.45	-18.85
				75	0	23.26	19.65	38.45	-18.8
	26915	836.5	QPSK	1	0	24.02	20.41	38.45	-18.04
				1	74	24.02	20.41	38.45	-18.04
				36	18	23.16	19.55	38.45	-18.9
				75	0	23.21	19.60	38.45	-18.85
	26965	841.5	QPSK	1	0	24.44	20.83	38.45	-17.62
				1	74	24.04	20.43	38.45	-18.02
				36	18	23.13	19.52	38.45	-18.93
				75	0	23.24	19.63	38.45	-18.82
	26865	831.5	16QAM	1	0	23.21	19.60	38.45	-18.85
				1	74	23.73	20.12	38.45	-18.33
				36	18	22.27	18.66	38.45	-19.79
				75	0	22.31	18.70	38.45	-19.75
	26915	836.5	16QAM	1	0	23.30	19.69	38.45	-18.76
				1	74	23.30	19.69	38.45	-18.76
				36	18	22.17	18.56	38.45	-19.89
				75	0	22.16	18.55	38.45	-19.9
	26965	841.5	16QAM	1	0	23.42	19.81	38.45	-18.64
				1	74	23.56	19.95	38.45	-18.5
				36	18	22.20	18.59	38.45	-19.86
				75	0	22.21	18.60	38.45	-19.85

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Antenna gain (dBi) **-3.61**

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	26697	814.7	QPSK	1	0	23.92	20.31	50	-29.69
				1	5	24.06	20.45	50	-29.55
				3	2	24.10	20.49	50	-29.51
				6	0	22.81	19.20	50	-30.8
	26740	819	QPSK	1	0	23.95	20.34	50	-29.66
				1	5	24.33	20.72	50	-29.28
				3	2	23.88	20.27	50	-29.73
				6	0	23.02	19.41	50	-30.59
	26783	823.3	QPSK	1	0	23.86	20.25	50	-29.75
				1	5	23.79	20.18	50	-29.82
				3	2	24.27	20.66	50	-29.34
				6	0	23.14	19.53	50	-30.47
	26697	814.7	16QAM	1	0	22.93	19.32	50	-30.68
				1	5	23.33	19.72	50	-30.28
				3	2	22.85	19.24	50	-30.76
				6	0	21.95	18.34	50	-31.66
	26740	819	16QAM	1	0	23.57	19.96	50	-30.04
				1	5	23.40	19.79	50	-30.21
				3	2	23.47	19.86	50	-30.14
				6	0	22.23	18.62	50	-31.38
	26783	823.3	16QAM	1	0	23.33	19.72	50	-30.28
				1	5	23.01	19.40	50	-30.6
				3	2	23.24	19.63	50	-30.37
				6	0	22.28	18.67	50	-31.33

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Antenna gain (dBi) -3.61

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	26705	815.5	QPSK	1	0	23.96	20.35	50	-29.65
				1	14	23.88	20.27	50	-29.73
				8	4	23.13	19.52	50	-30.48
				15	0	22.84	19.23	50	-30.77
	26740	819	QPSK	1	0	24.37	20.76	50	-29.24
				1	14	23.86	20.25	50	-29.75
				8	4	23.38	19.77	50	-30.23
				15	0	23.19	19.58	50	-30.42
	26775	822.5	QPSK	1	0	23.85	20.24	50	-29.76
				1	14	23.49	19.88	50	-30.12
				8	4	23.15	19.54	50	-30.46
				15	0	22.90	19.29	50	-30.71
	26705	815.5	16QAM	1	0	23.47	19.86	50	-30.14
				1	14	23.07	19.46	50	-30.54
				8	4	21.96	18.35	50	-31.65
				15	0	22.06	18.45	50	-31.55
	26740	819	16QAM	1	0	23.08	19.47	50	-30.53
				1	14	23.89	20.28	50	-29.72
				8	4	22.06	18.45	50	-31.55
				15	0	22.04	18.43	50	-31.57
	26775	822.5	16QAM	1	0	23.32	19.71	50	-30.29
				1	14	23.23	19.62	50	-30.38
				8	4	22.49	18.88	50	-31.12
				15	0	22.00	18.39	50	-31.61

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t (886-2) 2299-3279

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Antenna gain (dBi) -3.61

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	26715	816.5	QPSK	1	0	23.83	20.22	50	-29.78
				1	24	24.04	20.43	50	-29.57
				12	6	22.75	19.14	50	-30.86
				25	0	22.83	19.22	50	-30.78
	26740	819	QPSK	1	0	23.91	20.30	50	-29.7
				1	24	24.21	20.60	50	-29.4
				12	6	23.11	19.50	50	-30.5
				25	0	23.00	19.39	50	-30.61
	26765	821.5	QPSK	1	0	24.13	20.52	50	-29.48
				1	24	23.98	20.37	50	-29.63
				12	6	23.33	19.72	50	-30.28
				25	0	23.31	19.70	50	-30.3
	26715	816.5	16QAM	1	0	23.56	19.95	50	-30.05
				1	24	23.81	20.20	50	-29.8
				12	6	21.92	18.31	50	-31.69
				25	0	22.13	18.52	50	-31.48
	26740	819	16QAM	1	0	23.68	20.07	50	-29.93
				1	24	23.59	19.98	50	-30.02
				12	6	22.30	18.69	50	-31.31
				25	0	22.40	18.79	50	-31.21
26765	821.5	16QAM	1	0	23.38	19.77	50	-30.23	
			1	24	23.27	19.66	50	-30.34	
			12	6	22.11	18.50	50	-31.5	
			25	0	22.17	18.56	50	-31.44	

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f (886-2) 2298-0488

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Antenna gain (dBi) -3.61

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	26740	819	QPSK	1	0	23.66	20.05	50	-29.95
				1	49	24.23	20.62	50	-29.38
				25	12	23.09	19.48	50	-30.52
				50	0	23.37	19.76	50	-30.24
	26740	819	16QAM	1	0	23.36	19.75	50	-30.25
				1	49	23.59	19.98	50	-30.02
				25	12	22.20	18.59	50	-31.41
				50	0	21.99	18.38	50	-31.62

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Antenna gain (dBi) -4.11

LTE Band 30_Uplink frequency band : 2305 to 2315 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	27685	2307.5	QPSK	1	0	23.05	18.94	24	-5.06
				1	24	23.04	18.93	24	-5.07
				12	6	22.03	17.92	24	-6.08
				25	0	22.04	17.93	24	-6.07
	27710	2310	QPSK	1	0	23.07	18.96	24	-5.04
				1	24	23.23	19.12	24	-4.88
				12	6	22.05	17.94	24	-6.06
				25	0	22.08	17.97	24	-6.03
	27735	2312.5	QPSK	1	0	23.18	19.07	24	-4.93
				1	24	23.42	19.31	24	-4.69
				12	6	22.11	18.00	24	-6
				25	0	22.20	18.09	24	-5.91
	27685	2307.5	16QAM	1	0	22.21	18.10	24	-5.9
				1	24	22.21	18.10	24	-5.9
				12	6	21.81	17.70	24	-6.3
				25	0	21.73	17.62	24	-6.38
	27710	2310	16QAM	1	0	22.25	18.14	24	-5.86
				1	24	22.27	18.16	24	-5.84
				12	6	21.74	17.63	24	-6.37
				25	0	21.68	17.57	24	-6.43
27735	2312.5	16QAM	1	0	22.04	17.93	24	-6.07	
			1	24	22.05	17.94	24	-6.06	
			12	6	21.53	17.42	24	-6.58	
			25	0	21.17	17.06	24	-6.94	

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Antenna gain (dBi) -4.11

LTE Band 30_Uplink frequency band : 2305 to 2315 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	27710	2310	QPSK	1	0	23.11	19.00	24	-5
				1	49	23.54	19.43	24	-4.57
				25	12	22.24	18.13	24	-5.87
				50	0	22.25	18.14	24	-5.86
	27710	2310	16QAM	1	0	22.54	18.43	24	-5.57
				1	49	22.80	18.69	24	-5.31
				25	12	21.26	17.15	24	-6.85
				50	0	21.34	17.23	24	-6.77

LTE Band 30_Uplink frequency band : 2305 to 2315 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/5MHz)	EIRP Average (dBm/5MHz)	EIRP Limit (dBm/5MHz)	Margin (dB)
10	27710	2310	QPSK	1	0	19.87	15.76	24	-8.24
				1	49	20.22	16.11	24	-7.89
				25	12	19.21	15.10	24	-8.9
				50	0	19.20	15.09	24	-8.91
	27710	2310	16QAM	1	0	19.04	14.93	24	-9.07
				1	49	19.21	15.10	24	-8.9
				25	12	18.14	14.03	24	-9.97
				50	0	18.31	14.20	24	-9.8

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f (886-2) 2298-0488

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Antenna gain (dBi)		-4.57							
LTE Band 38_Uplink frequency band : 2570 to 2620 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	37775	2572.5	QPSK	1	0	23.90	19.33	33	-13.67
				1	24	23.82	19.25	33	-13.75
				12	6	22.88	18.31	33	-14.69
				25	0	22.86	18.29	33	-14.71
	38000	2595	QPSK	1	0	23.80	19.23	33	-13.77
				1	24	23.89	19.32	33	-13.68
				12	6	22.79	18.22	33	-14.78
	38225	2617.5	QPSK	25	0	22.80	18.23	33	-14.77
				1	0	23.81	19.24	33	-13.76
				1	24	23.91	19.34	33	-13.66
				12	6	22.85	18.28	33	-14.72
	37775	2572.5	16QAM	25	0	22.86	18.29	33	-14.71
				1	0	22.78	18.21	33	-14.79
				1	24	22.94	18.37	33	-14.63
				12	6	21.83	17.26	33	-15.74
	38000	2595	16QAM	25	0	21.87	17.30	33	-15.7
				1	0	22.87	18.30	33	-14.7
				1	24	22.86	18.29	33	-14.71
				12	6	21.80	17.23	33	-15.77
	38225	2617.5	16QAM	25	0	21.87	17.30	33	-15.7
1				0	22.81	18.24	33	-14.76	
1				24	22.83	18.26	33	-14.74	
12				6	21.86	17.29	33	-15.71	
				25	0	21.94	17.37	33	-15.63

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Antenna gain (dBi)									
-4.57									
LTE Band 38_Uplink frequency band : 2570 to 2620 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	37800	2575	QPSK	1	0	23.95	19.38	33	-13.62
				1	49	23.92	19.35	33	-13.65
				25	12	22.84	18.27	33	-14.73
				50	0	22.78	18.21	33	-14.79
	38000	2595	QPSK	1	0	23.94	19.37	33	-13.63
				1	49	23.92	19.35	33	-13.65
				25	12	22.90	18.33	33	-14.67
				50	0	22.83	18.26	33	-14.74
	38200	2615	QPSK	1	0	23.91	19.34	33	-13.66
				1	49	23.95	19.38	33	-13.62
				25	12	22.89	18.32	33	-14.68
				50	0	22.93	18.36	33	-14.64
	37800	2575	16QAM	1	0	22.93	18.36	33	-14.64
				1	49	22.93	18.36	33	-14.64
				25	12	21.89	17.32	33	-15.68
				50	0	21.83	17.26	33	-15.74
	38000	2595	16QAM	1	0	22.79	18.22	33	-14.78
				1	49	22.85	18.28	33	-14.72
				25	12	21.95	17.38	33	-15.62
				50	0	21.87	17.30	33	-15.7
38200	2615	16QAM	1	0	22.88	18.31	33	-14.69	
			1	49	22.79	18.22	33	-14.78	
			25	12	21.90	17.33	33	-15.67	
			50	0	21.85	17.28	33	-15.72	

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Antenna gain (dBi)									
-4.57									
LTE Band 38_Uplink frequency band : 2570 to 2620 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	37825	2577.5	QPSK	1	0	23.97	19.40	33	-13.6
				1	74	23.87	19.30	33	-13.7
				36	19	22.82	18.25	33	-14.75
				75	0	22.78	18.21	33	-14.79
	38000	2595	QPSK	1	0	23.86	19.29	33	-13.71
				1	74	23.82	19.25	33	-13.75
				36	19	22.92	18.35	33	-14.65
				75	0	22.93	18.36	33	-14.64
	38175	2612.5	QPSK	1	0	23.81	19.24	33	-13.76
				1	74	23.96	19.39	33	-13.61
				36	19	22.88	18.31	33	-14.69
				75	0	22.78	18.21	33	-14.79
	37825	2577.5	16QAM	1	0	22.85	18.28	33	-14.72
				1	74	22.85	18.28	33	-14.72
				36	19	21.85	17.28	33	-15.72
				75	0	21.80	17.23	33	-15.77
	38000	2595	16QAM	1	0	22.77	18.20	33	-14.8
				1	74	22.85	18.28	33	-14.72
				36	19	21.95	17.38	33	-15.62
				75	0	21.91	17.34	33	-15.66
	38175	2612.5	16QAM	1	0	22.85	18.28	33	-14.72
				1	74	22.83	18.26	33	-14.74
				36	19	21.93	17.36	33	-15.64
				75	0	21.81	17.24	33	-15.76

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Antenna gain (dBi)									
-4.57									
LTE Band 38_Uplink frequency band : 2570 to 2620 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	37850	2580	QPSK	1	0	23.95	19.38	33	-13.62
				1	99	23.77	19.20	33	-13.8
				50	25	22.92	18.35	33	-14.65
				100	0	22.78	18.21	33	-14.79
	38000	2595	QPSK	1	0	23.98	19.41	33	-13.59
				1	99	23.87	19.30	33	-13.7
				50	25	22.86	18.29	33	-14.71
				100	0	22.89	18.32	33	-14.68
	38150	2610	QPSK	1	0	23.94	19.37	33	-13.63
				1	99	23.79	19.22	33	-13.78
				50	25	22.82	18.25	33	-14.75
				100	0	22.83	18.26	33	-14.74
	37850	2580	16QAM	1	0	22.93	18.36	33	-14.64
				1	99	22.78	18.21	33	-14.79
				50	25	21.90	17.33	33	-15.67
				100	0	21.79	17.22	33	-15.78
	38000	2595	16QAM	1	0	22.86	18.29	33	-14.71
				1	99	22.84	18.27	33	-14.73
				50	25	21.84	17.27	33	-15.73
				100	0	21.83	17.26	33	-15.74
38150	2610	16QAM	1	0	22.94	18.37	33	-14.63	
			1	99	22.85	18.28	33	-14.72	
			50	25	21.94	17.37	33	-15.63	
			100	0	21.78	17.21	33	-15.79	

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Antenna gain (dBi) **-4.57**

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	39675	2498.5	QPSK	1	0	24.44	19.87	33	-13.13
				1	24	24.47	19.90	33	-13.1
				12	6	23.54	18.97	33	-14.03
				25	0	23.55	18.98	33	-14.02
	40620	2593	QPSK	1	0	24.78	20.21	33	-12.79
				1	24	24.66	20.09	33	-12.91
				12	6	23.43	18.86	33	-14.14
				25	0	23.46	18.89	33	-14.11
	41565	2687.5	QPSK	1	0	24.47	19.90	33	-13.1
				1	24	24.52	19.95	33	-13.05
				12	6	23.55	18.98	33	-14.02
				25	0	23.57	19.00	33	-14
	39675	2498.5	16QAM	1	0	23.71	19.14	33	-13.86
				1	24	23.69	19.12	33	-13.88
				12	6	22.68	18.11	33	-14.89
				25	0	22.66	18.09	33	-14.91
	40620	2593	16QAM	1	0	23.70	19.13	33	-13.87
				1	24	23.81	19.24	33	-13.76
				12	6	22.54	17.97	33	-15.03
				25	0	22.45	17.88	33	-15.12
	41565	2687.5	16QAM	1	0	23.47	18.90	33	-14.1
				1	24	23.63	19.06	33	-13.94
				12	6	22.64	18.07	33	-14.93
				25	0	22.56	17.99	33	-15.01

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Antenna gain (dBi) -4.57

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	39700	2501	QPSK	1	0	24.46	19.89	33	-13.11
				1	49	24.56	19.99	33	-13.01
				25	12	23.62	19.05	33	-13.95
				50	0	23.61	19.04	33	-13.96
	40620	2593	QPSK	1	0	24.43	19.86	33	-13.14
				1	49	24.68	20.11	33	-12.89
				25	12	23.48	18.91	33	-14.09
				50	0	23.45	18.88	33	-14.12
	41540	2685	QPSK	1	0	24.52	19.95	33	-13.05
				1	49	24.59	20.02	33	-12.98
				25	12	23.58	19.01	33	-13.99
				50	0	23.52	18.95	33	-14.05
	39700	2501	16QAM	1	0	23.89	19.32	33	-13.68
				1	49	23.66	19.09	33	-13.91
				25	12	22.72	18.15	33	-14.85
				50	0	22.65	18.08	33	-14.92
	40620	2593	16QAM	1	0	23.66	19.09	33	-13.91
				1	49	23.93	19.36	33	-13.64
				25	12	22.48	17.91	33	-15.09
				50	0	22.55	17.98	33	-15.02
	41540	2685	16QAM	1	0	23.44	18.87	33	-14.13
				1	49	23.66	19.09	33	-13.91
				25	12	22.69	18.12	33	-14.88
				50	0	22.56	17.99	33	-15.01

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Antenna gain (dBi) -4.57

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	39725	2503.5	QPSK	1	0	24.78	20.21	33	-12.79
				1	74	24.48	19.91	33	-13.09
				36	18	23.61	19.04	33	-13.96
				75	0	23.56	18.99	33	-14.01
	40620	2593	QPSK	1	0	24.54	19.97	33	-13.03
				1	74	24.58	20.01	33	-12.99
				36	18	23.57	19.00	33	-14
				75	0	23.76	19.19	33	-13.81
	41515	2682.5	QPSK	1	0	24.44	19.87	33	-13.13
				1	74	24.47	19.90	33	-13.1
				36	18	23.53	18.96	33	-14.04
				75	0	23.50	18.93	33	-14.07
	39725	2503.5	16QAM	1	0	23.76	19.19	33	-13.81
				1	74	23.95	19.38	33	-13.62
				36	18	22.67	18.10	33	-14.9
				75	0	22.64	18.07	33	-14.93
	40620	2593	16QAM	1	0	23.84	19.27	33	-13.73
				1	74	23.58	19.01	33	-13.99
				36	18	22.69	18.12	33	-14.88
				75	0	22.63	18.06	33	-14.94
	41515	2682.5	16QAM	1	0	23.41	18.84	33	-14.16
				1	74	23.68	19.11	33	-13.89
				36	18	22.58	18.01	33	-14.99
				75	0	22.48	17.91	33	-15.09

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Antenna gain (dBi) -4.57

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	39750	2506	QPSK	1	0	24.09	19.52	33	-13.48
				1	99	23.68	19.11	33	-13.89
				50	25	22.86	18.29	33	-14.71
				100	0	22.88	18.31	33	-14.69
	40620	2593	QPSK	1	0	24.00	19.43	33	-13.57
				1	99	24.07	19.50	33	-13.5
				50	25	22.98	18.41	33	-14.59
				100	0	22.97	18.40	33	-14.6
	41490	2680	QPSK	1	0	24.84	20.27	33	-12.73
				1	99	24.82	20.25	33	-12.75
				50	25	23.39	18.82	33	-14.18
				100	0	23.32	18.75	33	-14.25
	39750	2506	16QAM	1	0	23.71	19.14	33	-13.86
				1	99	23.95	19.38	33	-13.62
				50	25	22.59	18.02	33	-14.98
				100	0	22.57	18.00	33	-15
	40620	2593	16QAM	1	0	23.91	19.34	33	-13.66
				1	99	23.81	19.24	33	-13.76
				50	25	22.54	17.97	33	-15.03
				100	0	22.49	17.92	33	-15.08
41490	2680	16QAM	1	0	23.52	18.95	33	-14.05	
			1	99	23.76	19.19	33	-13.81	
			50	25	22.57	18.00	33	-15	
			100	0	22.45	17.88	33	-15.12	

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Antenna gain (dBi) **-4.69**

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	131979	1710.7	QPSK	1	0	23.11	18.42	30	-11.58
				1	5	22.99	18.30	30	-11.7
				3	2	22.96	18.27	30	-11.73
				6	0	22.09	17.40	30	-12.6
	132322	1745	QPSK	1	0	23.21	18.52	30	-11.48
				1	5	23.30	18.61	30	-11.39
				3	2	23.20	18.51	30	-11.49
				6	0	22.31	17.62	30	-12.38
	132665	1779.3	QPSK	1	0	22.92	18.23	30	-11.77
				1	5	22.94	18.25	30	-11.75
				3	2	22.88	18.19	30	-11.81
				6	0	21.98	17.29	30	-12.71
	131979	1710.7	16QAM	1	0	22.27	17.58	30	-12.42
				1	5	22.74	18.05	30	-11.95
				3	2	22.24	17.55	30	-12.45
				6	0	21.31	16.62	30	-13.38
	132322	1745	16QAM	1	0	22.72	18.03	30	-11.97
				1	5	22.31	17.62	30	-12.38
				3	2	22.31	17.62	30	-12.38
				6	0	21.35	16.66	30	-13.34
	132665	1779.3	16QAM	1	0	22.56	17.87	30	-12.13
				1	5	22.43	17.74	30	-12.26
				3	2	22.39	17.70	30	-12.3
				6	0	21.08	16.39	30	-13.61

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Antenna gain (dBi) -4.69

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	131987	1711.5	QPSK	1	0	23.17	18.48	30	-11.52
				1	14	23.30	18.61	30	-11.39
				8	4	22.32	17.63	30	-12.37
				15	0	22.37	17.68	30	-12.32
	132322	1745	QPSK	1	0	23.26	18.57	30	-11.43
				1	14	23.30	18.61	30	-11.39
				8	4	22.43	17.74	30	-12.26
				15	0	22.40	17.71	30	-12.29
	132657	1778.5	QPSK	1	0	22.98	18.29	30	-11.71
				1	14	23.08	18.39	30	-11.61
				8	4	22.14	17.45	30	-12.55
				15	0	22.18	17.49	30	-12.51
	131987	1711.5	16QAM	1	0	22.60	17.91	30	-12.09
				1	14	22.42	17.73	30	-12.27
				8	4	21.43	16.74	30	-13.26
				15	0	21.32	16.63	30	-13.37
	132322	1745	16QAM	1	0	22.44	17.75	30	-12.25
				1	14	22.62	17.93	30	-12.07
				8	4	21.48	16.79	30	-13.21
				15	0	21.45	16.76	30	-13.24
	132657	1778.5	16QAM	1	0	22.47	17.78	30	-12.22
				1	14	22.19	17.50	30	-12.5
				8	4	21.33	16.64	30	-13.36
				15	0	21.22	16.53	30	-13.47

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Antenna gain (dBi) -4.69

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	131997	1712.5	QPSK	1	0	23.36	18.67	30	-11.33
				1	24	23.22	18.53	30	-11.47
				12	6	22.37	17.68	30	-12.32
				25	0	22.31	17.62	30	-12.38
	132322	1745	QPSK	1	0	23.24	18.55	30	-11.45
				1	24	23.50	18.81	30	-11.19
				12	6	22.38	17.69	30	-12.31
				25	0	22.33	17.64	30	-12.36
	132647	1777.5	QPSK	1	0	23.25	18.56	30	-11.44
				1	24	22.97	18.28	30	-11.72
				12	6	22.13	17.44	30	-12.56
				25	0	22.18	17.49	30	-12.51
	131997	1712.5	16QAM	1	0	22.10	17.41	30	-12.59
				1	24	22.73	18.04	30	-11.96
				12	6	21.41	16.72	30	-13.28
				25	0	21.38	16.69	30	-13.31
	132322	1745	16QAM	1	0	22.65	17.96	30	-12.04
				1	24	22.97	18.28	30	-11.72
				12	6	21.54	16.85	30	-13.15
				25	0	21.38	16.69	30	-13.31
	132647	1777.5	16QAM	1	0	22.71	18.02	30	-11.98
				1	24	22.39	17.70	30	-12.3
				12	6	21.33	16.64	30	-13.36
				25	0	21.28	16.59	30	-13.41

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.tw.sgs.com

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Antenna gain (dBi) -4.69

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	132022	1715	QPSK	1	0	23.46	18.77	30	-11.23
				1	49	23.09	18.40	30	-11.6
				25	12	22.00	17.31	30	-12.69
				50	0	22.22	17.53	30	-12.47
	132322	1745	QPSK	1	0	23.24	18.55	30	-11.45
				1	49	23.40	18.71	30	-11.29
				25	12	22.38	17.69	30	-12.31
				50	0	22.40	17.71	30	-12.29
	132622	1775	QPSK	1	0	23.54	18.85	30	-11.15
				1	49	23.19	18.50	30	-11.5
				25	12	22.28	17.59	30	-12.41
				50	0	22.26	17.57	30	-12.43
	132022	1715	16QAM	1	0	22.66	17.97	30	-12.03
				1	49	22.75	18.06	30	-11.94
				25	12	21.25	16.56	30	-13.44
				50	0	21.26	16.57	30	-13.43
	132322	1745	16QAM	1	0	22.75	18.06	30	-11.94
				1	49	22.79	18.10	30	-11.9
				25	12	21.46	16.77	30	-13.23
				50	0	21.41	16.72	30	-13.28
	132622	1775	16QAM	1	0	22.79	18.10	30	-11.9
				1	49	22.52	17.83	30	-12.17
				25	12	21.35	16.66	30	-13.34
				50	0	21.27	16.58	30	-13.42

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Antenna gain (dBi) -4.69

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	132047	1717.5	QPSK	1	0	23.15	18.46	30	-11.54
				1	74	23.45	18.76	30	-11.24
				36	18	22.05	17.36	30	-12.64
				75	0	22.08	17.39	30	-12.61
	132322	1745	QPSK	1	0	23.39	18.70	30	-11.3
				1	74	23.36	18.67	30	-11.33
				36	18	22.37	17.68	30	-12.32
				75	0	22.42	17.73	30	-12.27
	132597	1772.5	QPSK	1	0	23.30	18.61	30	-11.39
				1	74	23.10	18.41	30	-11.59
				36	18	22.40	17.71	30	-12.29
				75	0	22.43	17.74	30	-12.26
	132047	1717.5	16QAM	1	0	22.42	17.73	30	-12.27
				1	74	22.56	17.87	30	-12.13
				36	18	21.24	16.55	30	-13.45
				75	0	21.32	16.63	30	-13.37
	132322	1745	16QAM	1	0	22.81	18.12	30	-11.88
				1	74	22.66	17.97	30	-12.03
				36	18	21.42	16.73	30	-13.27
				75	0	21.51	16.82	30	-13.18
	132597	1772.5	16QAM	1	0	22.70	18.01	30	-11.99
				1	74	22.25	17.56	30	-12.44
				36	18	21.39	16.70	30	-13.3
				75	0	21.41	16.72	30	-13.28

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Antenna gain (dBi) -4.69

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	132072	1720	QPSK	1	0	23.36	18.67	30	-11.33
				1	99	23.18	18.49	30	-11.51
				50	25	22.21	17.52	30	-12.48
				100	0	22.30	17.61	30	-12.39
	132322	1745	QPSK	1	0	23.57	18.88	30	-11.12
				1	99	23.58	18.89	30	-11.11
				50	25	22.31	17.62	30	-12.38
				100	0	22.35	17.66	30	-12.34
	132572	1770	QPSK	1	0	23.63	18.94	30	-11.06
				1	99	23.17	18.48	30	-11.52
				50	25	22.33	17.64	30	-12.36
				100	0	22.47	17.78	30	-12.22
	132072	1720	16QAM	1	0	22.44	17.75	30	-12.25
				1	99	22.52	17.83	30	-12.17
				50	25	21.26	16.57	30	-13.43
				100	0	21.28	16.59	30	-13.41
	132322	1745	16QAM	1	0	22.87	18.18	30	-11.82
				1	99	22.79	18.10	30	-11.9
				50	25	21.37	16.68	30	-13.32
				100	0	21.37	16.68	30	-13.32
132572	1770	16QAM	1	0	22.60	17.91	30	-12.09	
			1	99	22.51	17.82	30	-12.18	
			50	25	21.53	16.84	30	-13.16	
			100	0	21.57	16.88	30	-13.12	

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.tw.sgs.com

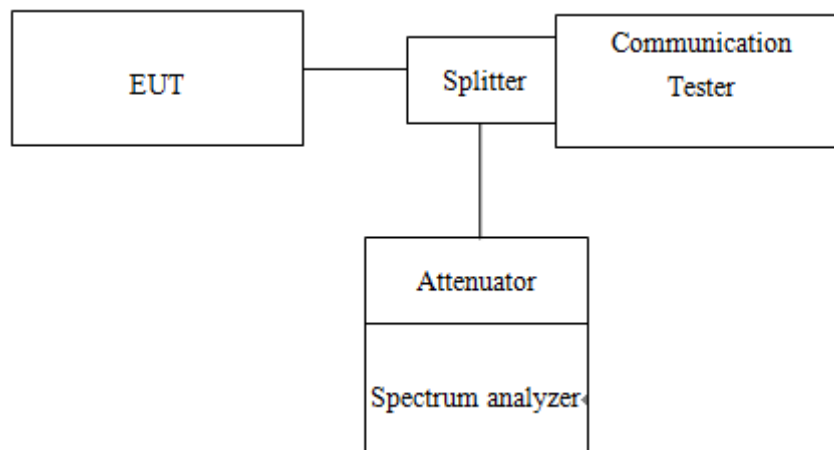
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7. OCCUPIED BANDWIDTH MEASUREMENT

7.1. Standard Applicable

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power.

7.2. Test Set-up



7.3. Measurement Procedure

99% &26dB Bandwidth with detector peak

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW= 3 times RBW, -26dBc display line was placed on the screen (or 26dB bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace. Then set RBW to 99% bandwidth, RBW= 1%, VBW= 3 RBW, with span > 2 * Signal BW, set % Power = 99%.

99% Bandwidth with detector sample

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% ~ 5% of emission BW, VBW= 3 times RBW, -20dBc display line was placed on the screen (or 20dB bandwidth). Set RBW to 99% bandwidth, RBW= 1% ~ 5%, VBW= 3 RBW, with span > 2 * Signal BW, set % Power = 99%.

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7.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/06/19
Radio Communication Analyer	Anritsu	MT8820C	6201107337	2018/06/15	2019/06/14
DC Power Supply	Agilent	E3640A	MY53130054	2017/09/04	2018/09/03
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25
Splitter	Woken	DOM35LW1A2	RF36	2017/12/26	2018/12/25

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台灣檢驗科技股份有限公司

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f (886-2) 2298-0488

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7.5. Measurement Result

Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA II	HSDPA II	HSUPA II	WCDMA II	HSDPA II	HSUPA II
1852.40	9262	4.05650	4.06520	4.05760	4.60350	4.59780	4.60750
1880.00	9400	4.07560	4.07160	4.06560	4.68960	4.64640	4.65000
1907.60	9538	4.07390	4.08100	4.07370	4.63680	4.63340	4.65370

Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA IV	HSDPA IV	HSUPA IV	WCDMA IV	HSDPA IV	HSUPA IV
1712.40	1312	4.06420	4.06640	4.07000	4.66300	4.61400	4.62000
1732.60	1413	4.09390	4.09380	4.09290	4.74200	4.70800	4.74100
1752.60	1513	4.06330	4.06690	4.06230	4.63400	4.59900	4.62800

Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA V	HSDPA V	HSUPA V	WCDMA V	HSDPA V	HSUPA V
826.40	4132	4.08400	4.08550	4.08130	4.68640	4.66110	4.66250
836.60	4183	4.06950	4.06770	4.05980	4.64930	4.62920	4.61600
846.60	4233	4.10310	4.09130	4.10300	4.66080	4.67280	4.68990

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台灣檢驗科技股份有限公司

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f (886-2) 2298-0488

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LTE BAND 2 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1850.7	18607	1.1076	1.1103	1.2610	1.2554
1880.0	18900	1.1032	1.1075	1.2531	1.2522
1909.3	19193	1.1186	1.1125	1.3313	1.2668

LTE BAND 2 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1851.5	18615	2.7331	2.7273	3.0288	3.0238
1880.0	18900	2.7275	2.7188	3.0085	3.0154
1908.5	19185	2.7376	2.7366	3.2554	3.0235

LTE BAND 2 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1852.5	18625	4.5398	4.5240	5.1854	4.9436
1880.0	18900	4.5202	4.5114	4.9962	4.9473
1907.5	19175	4.5374	4.5231	5.6242	4.9847

LTE BAND 2 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1855.0	18650	9.0790	9.0943	10.493	10.551
1880.0	18900	9.0585	9.0583	10.481	10.553
1905.0	19150	9.0401	9.0293	10.490	10.455

LTE BAND 2 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1857.5	18675	13.550	13.537	15.915	15.678
1880.0	18900	13.548	13.547	15.867	15.853
1902.5	19125	13.484	13.502	15.631	15.442

LTE BAND 2 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1860.0	18700	18.055	18.019	20.195	20.116
1880.0	18900	17.966	18.013	20.064	20.012
1900.0	19100	17.963	17.966	19.981	20.076

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LTE BAND 4 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1710.7	19957	1.1146	1.1067	1.2683	1.2549
1732.5	20175	1.1096	1.1090	1.2575	1.2618
1754.3	20393	1.1094	1.1071	1.2511	1.2616

LTE BAND 4 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1711.5	19965	2.7339	2.7277	3.0167	3.0106
1732.5	20175	2.7246	2.7173	3.0172	3.0120
1753.5	20385	2.7398	2.7268	2.9981	3.0195

LTE BAND 4 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1712.5	19957	4.5262	4.5163	4.9972	4.9693
1732.5	20175	4.5175	4.5141	5.0450	4.9907
1752.5	20375	4.5130	4.5173	5.0592	4.9703

LTE BAND 4 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1715.0	20000	9.0392	9.0610	10.464	10.362
1732.5	20175	9.0772	9.1064	10.585	10.583
1750.0	20350	9.0724	9.1031	10.490	10.476

LTE BAND 4 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1717.5	20025	13.510	13.494	15.535	15.334
1732.5	20175	13.573	13.568	15.741	15.778
1747.5	20325	13.595	13.568	16.069	15.719

LTE BAND 4 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1720.0	20050	17.909	17.899	19.811	19.915
1732.5	20175	18.030	18.026	20.242	20.106
1745.0	20300	18.110	18.105	20.179	20.166

LTE BAND 5 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
824.7	20407	1.1036	1.1039	1.2600	1.2579
836.5	20525	1.0995	1.1081	1.2519	1.2606
848.3	20643	1.1069	1.1108	1.2580	1.2610

LTE BAND 5 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
825.5	20415	2.7234	2.7246	3.0000	3.0133
836.5	20525	2.7192	2.7204	3.0162	3.0206
847.5	20635	2.7238	2.7284	3.0026	3.0330

LTE BAND 5 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
826.5	20425	4.5406	4.5121	4.9920	4.9469
836.5	20525	4.5312	4.5183	4.9850	4.9539
846.5	20625	4.5283	4.5222	5.0195	4.9648

LTE BAND 5 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
829.0	20450	9.0741	9.0716	10.458	10.535
836.5	20525	9.0941	9.0751	10.585	10.574
844.0	20600	9.0443	9.0539	10.509	10.458

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SGS Taiwan Ltd.

No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

LTE BAND 7 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2502.5	20775	4.5285	4.5047	5.0686	4.9543
2535.0	21100	4.5301	4.5225	5.0180	4.9660
2567.5	21425	4.5331	4.5252	5.0839	5.0010

LTE BAND 7 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2505.0	20800	9.0742	9.0981	10.607	10.587
2535.0	21100	9.1090	9.0568	10.523	10.652
2565.0	21400	9.0836	9.0836	10.520	10.512

LTE BAND 7 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2507.5	20825	13.577	13.572	15.938	15.888
2535.0	21100	13.565	13.562	15.674	15.805
2562.5	21375	13.560	13.583	16.029	15.895

LTE BAND 7 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2510.0	20850	18.035	18.120	20.471	20.499
2535.0	21100	17.992	18.030	20.187	20.454
2560.0	21350	18.064	18.052	20.193	20.194

LTE BAND 12 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
699.7	23017	1.1094	1.1087	1.2539	1.2674
707.5	23095	1.1079	1.1098	1.2604	1.2612
715.3	23173	1.1090	1.1104	1.2671	1.2648

LTE BAND 12 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
700.5	23025	2.7290	2.7198	3.0115	3.0159
707.5	23095	2.7226	2.7277	3.0184	3.0186
714.5	23165	2.7275	2.7269	3.0881	3.0951

LTE BAND 12 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
701.5	23035	4.5154	4.4901	5.0206	4.9506
707.5	23095	4.5533	4.5417	5.0244	4.9972
713.5	23155	4.5132	4.5040	5.0114	4.9277

LTE BAND 12 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
704.0	23060	9.0616	9.0522	10.415	10.382
707.5	23095	9.1718	9.1585	10.690	10.688
711.0	23130	9.0305	9.0196	10.424	10.362

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LTE BAND 12 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
699.7	23017	1.1094	1.1087	1.2539	1.2674
707.5	23095	1.1079	1.1098	1.2604	1.2612
715.3	23173	1.1090	1.1104	1.2671	1.2648

LTE BAND 12 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
700.5	23025	2.7290	2.7198	3.0115	3.0159
707.5	23095	2.7226	2.7277	3.0184	3.0186
714.5	23165	2.7275	2.7269	3.0881	3.0951

LTE BAND 12 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
701.5	23035	4.5154	4.4901	5.0206	4.9506
707.5	23095	4.5533	4.5417	5.0244	4.9972
713.5	23155	4.5132	4.5040	5.0114	4.9277

LTE BAND 12 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
704.0	23060	9.0616	9.0522	10.415	10.382
707.5	23095	9.1718	9.1585	10.690	10.688
711.0	23130	9.0305	9.0196	10.424	10.362

LTE BAND 13 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
779.5	23205	4.5321	4.5360	5.6209	6.2759
782.0	23230	4.5144	4.5176	5.1118	4.9843
784.5	23255	4.5478	4.5224	5.1096	4.9827

LTE BAND 13 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
782.0	23230	9.015	9.019	10.417	10.460

LTE BAND 14 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
790.5	23305	4.4960	4.5148	4.9440	5.1830
793.0	23330	4.5061	4.5453	4.9510	4.9410
795.5	23355	4.5269	4.5260	4.9540	4.9830

LTE BAND 14 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
793.0	23330	9.061	9.063	10.460	10.390

LTE BAND 17 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
706.5	23755	4.5408	4.5285	5.0120	4.9650
710.0	23790	4.5257	4.5194	4.9750	4.9520
713.5	23825	4.5201	4.4996	5.0000	4.9310

LTE BAND 17 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
709.0	23780	9.1189	9.1272	10.520	10.490
710.0	23790	9.0786	9.0672	10.400	10.470
711.0	23800	9.0438	9.0229	10.470	10.360

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LTE BAND 25 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1850.7	26047	1.1095	1.1094	1.259	1.260
1882.5	26365	1.1100	1.1023	1.264	1.255
1914.3	26683	1.1135	1.1079	1.253	1.258

LTE BAND 25 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1851.5	26055	2.7163	2.7188	3.004	3.020
1882.5	26365	2.7255	2.7292	3.015	3.009
1913.5	26675	2.7169	2.7223	3.018	3.004

LTE BAND 25 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1852.5	26065	4.5305	4.5181	4.968	4.936
1882.5	26365	4.5165	4.5200	4.997	4.988
1912.5	26665	4.5431	4.5160	5.028	4.972

LTE BAND 25 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1855.0	26090	9.0939	9.0444	10.580	10.400
1882.5	26365	9.0506	9.0379	10.540	10.470
1910.0	26640	9.0947	9.1099	10.580	10.550

LTE BAND 25 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1857.5	26115	13.508	13.524	15.57	15.55
1882.5	26365	13.500	13.512	15.55	15.35
1907.5	26615	13.564	13.535	15.87	15.73

LTE BAND 25 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1860.0	26140	17.9970	17.9730	19.910	19.940
1882.5	26365	17.9680	17.9630	20.110	20.200
1905.0	26590	18.0340	18.0170	20.280	21.220

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LTE BAND 26 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
814.7	26697	1.1053	1.1083	1.2650	1.2640
831.5	26865	1.1033	1.1033	1.2550	1.2550
848.3	27033	1.1113	1.1070	1.2610	1.2610

LTE BAND 26 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
815.5	26705	2.7198	2.7172	3.0160	3.0100
831.5	26865	2.7220	2.7218	2.9990	3.0160
847.5	27025	2.7326	2.7251	3.0170	3.0060

LTE BAND 26 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
816.5	26715	4.5302	4.5150	4.9690	4.9410
831.5	26865	4.5066	4.5147	4.9820	4.9570
846.5	27015	4.5180	4.5139	4.9640	4.9720

LTE BAND 26 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
820.0	26800	9.0730	9.0747	10.560	10.520
831.5	26865	9.0580	9.0733	10.520	10.500
844.0	26990	9.0615	9.0463	10.490	10.440

LTE BAND 26 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
822.5	26825	13.575	13.575	16.010	15.650
831.5	26865	13.528	13.553	15.530	15.610
841.5	26965	13.529	13.547	16.160	15.740

LTE BAND 26 for part 90S Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
814.7	26697	1.1075	1.1068	1.2600	1.2620
819.0	26740	1.1088	1.1051	1.2590	1.2610
823.3	26783	1.1039	1.1140	1.2580	1.2590

LTE BAND 26 for part 90S Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
815.5	26705	2.7197	2.7157	3.0060	3.0110
819.0	26740	2.7148	2.7196	3.0120	3.0160
822.5	26775	2.7227	2.7163	3.0040	3.0110

LTE BAND 26 for part 90S Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
816.5	26715	4.5301	4.5100	4.9380	4.9880
819.0	26740	4.5144	4.5194	4.9420	4.9320
821.5	26765	4.5234	4.5223	4.9780	4.9710

LTE BAND 26 for part 90S Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
819.0	26740	9.0750	9.1125	10.570	10.570

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LTE BAND 30 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2307.5	27685	4.5252	4.5180	4.9570	4.9540
2310.0	27710	4.5086	4.5051	4.9380	4.9850
2312.5	27735	4.5243	4.5294	4.9490	4.9820

LTE BAND 30 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	16QAM	QPSK
2310.0	27710	9.0498	9.0462	10.5000	10.4800

LTE BAND 38 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2572.5	37775	4.5371	4.5399	4.9860	5.1330
2595.0	38000	4.5263	4.5012	5.3770	4.9520
2617.5	38225	4.5308	4.5306	5.0070	4.9270

LTE BAND 38 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2575.0	37800	9.0677	9.0415	10.340	10.620
2595.0	38000	9.0613	9.0455	10.480	10.460
2615.0	38200	9.0735	9.0445	10.500	10.520

LTE BAND 38 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2577.5	37825	13.552	13.555	15.890	15.770
2595.0	38000	13.543	13.551	15.830	15.770
2612.5	38175	13.563	13.555	16.230	15.710

LTE BAND 38 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2580.0	37850	18.022	18.026	19.980	20.490
2595.0	38000	17.996	18.035	20.030	20.050
2610.0	38150	18.055	18.030	20.760	22.820

LTE BAND 41 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2498.5	39675	4.5124	4.5110	5.1200	4.9690
2593.0	40620	4.5203	4.5171	5.0290	5.0920
2687.5	41565	4.5151	4.5089	5.0590	5.0610

LTE BAND 41 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2501.0	39700	9.0672	9.0629	10.420	10.480
2593.0	40620	9.0732	9.0778	10.470	10.750
2685.0	41540	9.1163	9.0408	10.670	10.400

LTE BAND 41 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2503.5	39725	13.536	13.535	15.840	16.000
2593.0	40620	13.531	13.578	15.980	15.680
2682.5	41515	13.527	13.563	15.680	15.640

LTE BAND 41 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2506.0	39750	18.043	18.006	20.560	21.060
2593.0	40620	18.019	18.051	20.110	20.130
2680.0	41490	18.012	18.032	20.570	20.210

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LTE BAND 66 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1710.7	131979	1.1087	1.1109	1.2690	1.2620
1745.0	132322	1.1086	1.1118	1.2520	1.2640
1779.3	132665	1.1126	1.1091	1.2590	1.2610

LTE BAND 66 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1711.5	131987	2.7261	2.7175	3.0170	3.0240
1745.0	132322	2.7217	2.7277	3.0070	3.0180
1778.5	132657	2.7229	2.7125	3.0140	3.0330

LTE BAND 66 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1712.5	131997	4.5343	4.5265	4.9650	4.9480
1745.0	132322	4.5201	4.5196	4.9550	4.9540
1777.5	132647	4.5099	4.5129	4.9730	5.0900

LTE BAND 66 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1715.0	132022	9.0614	9.0811	10.5200	10.5000
1745.0	132322	9.1116	9.0998	10.5700	10.4900
1775.0	132622	9.0878	9.0854	10.5900	10.6200

LTE BAND 66 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1717.5	132047	13.5210	13.5130	15.3800	15.3600
1745.0	132322	13.5840	13.5490	16.1800	15.7000
1772.5	132597	13.5990	13.5690	16.1300	15.6600

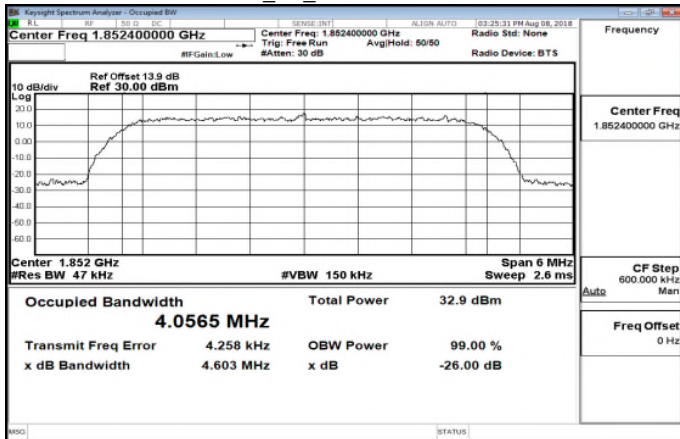
LTE BAND 66 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1720.0	132072	17.9510	17.8900	19.9300	19.9100
1745.0	132322	18.0590	18.0830	20.4400	20.3500
1770.0	132572	18.0270	18.0280	20.1100	19.9600

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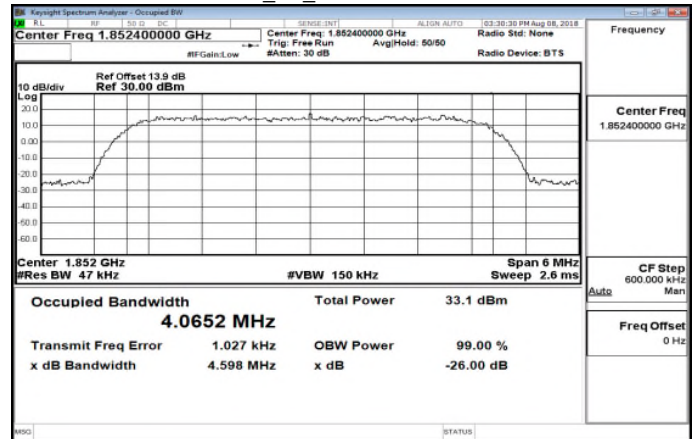
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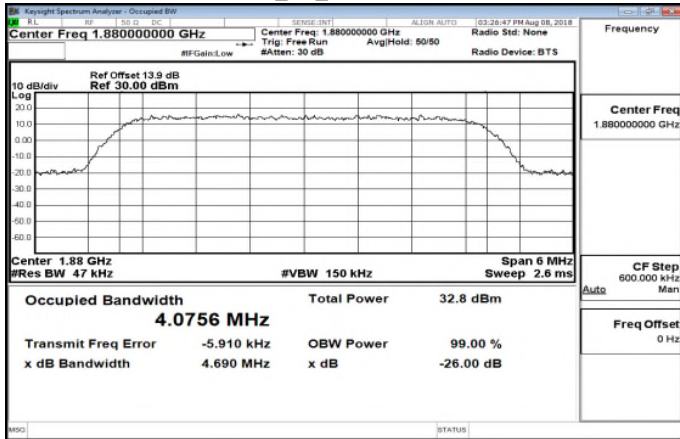
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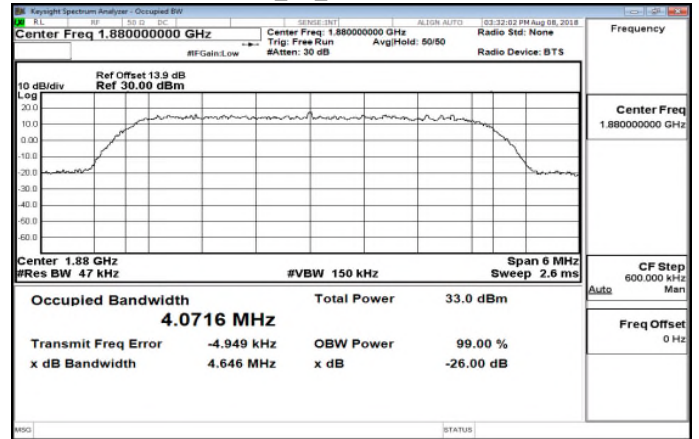
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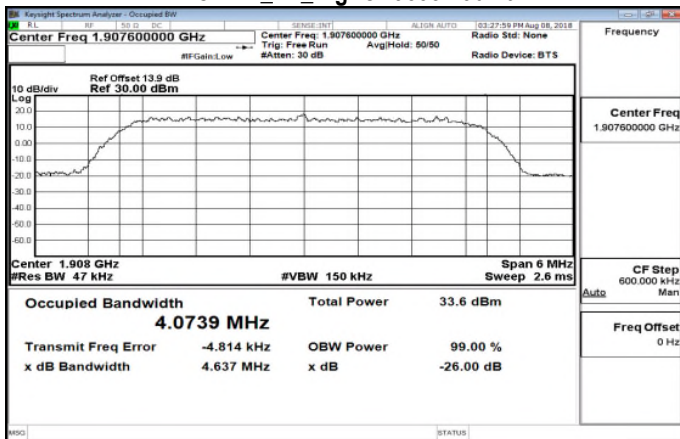
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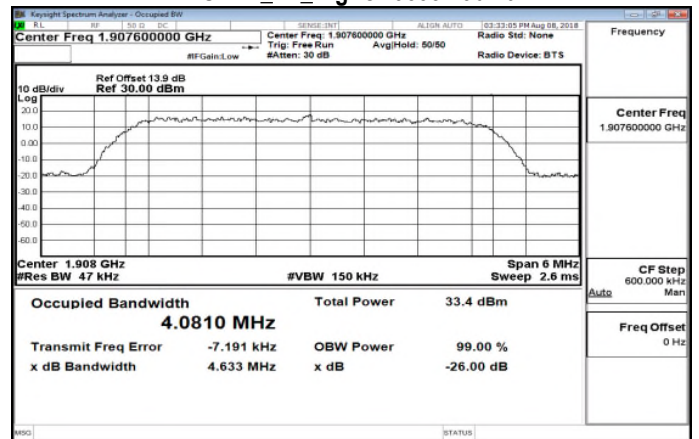
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WCDMA_B2_HighCH9538-1907.6



HSDPA_B2_HighCH9538-1907.6



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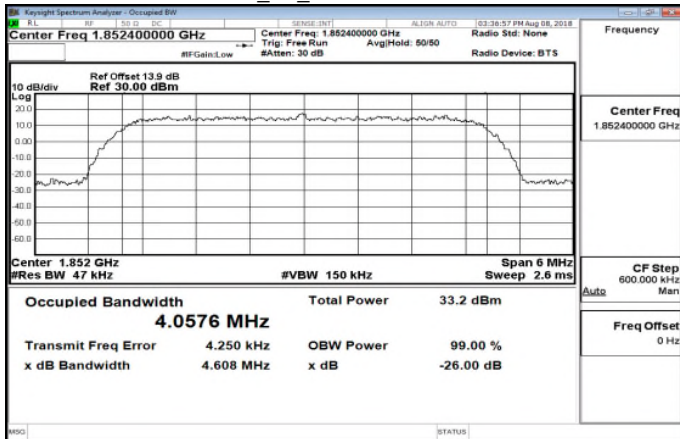
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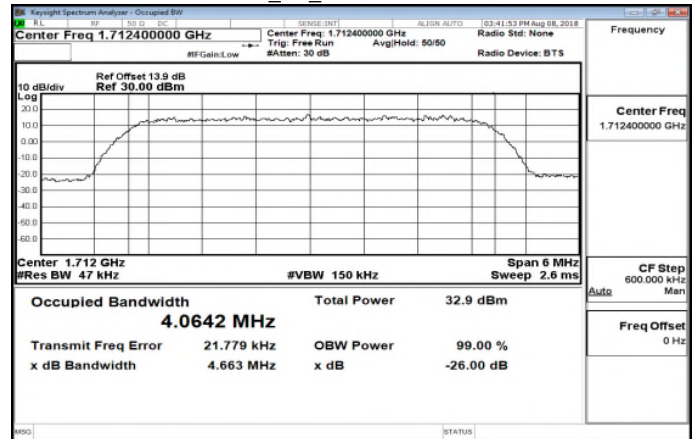
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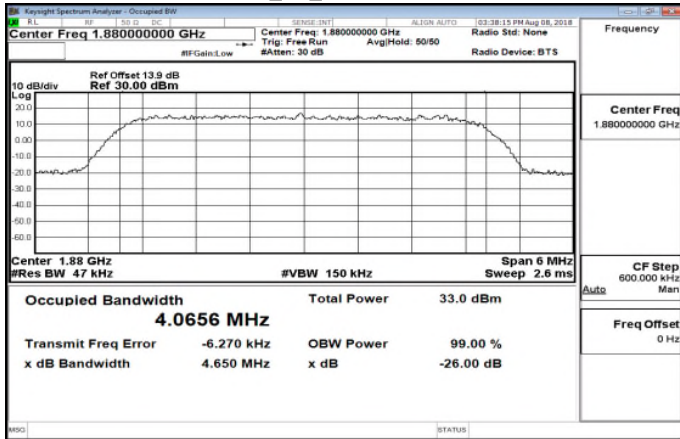
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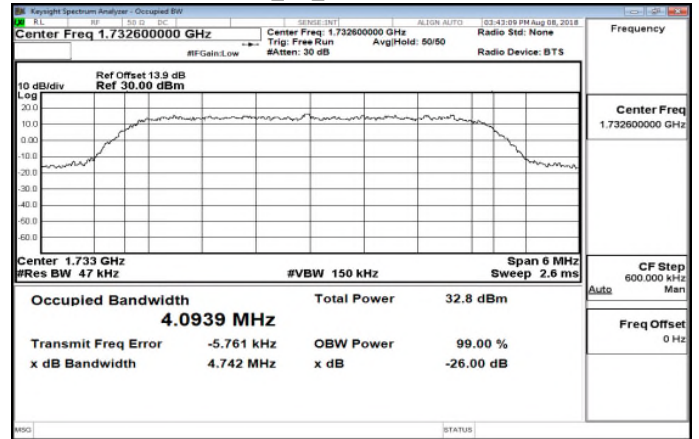
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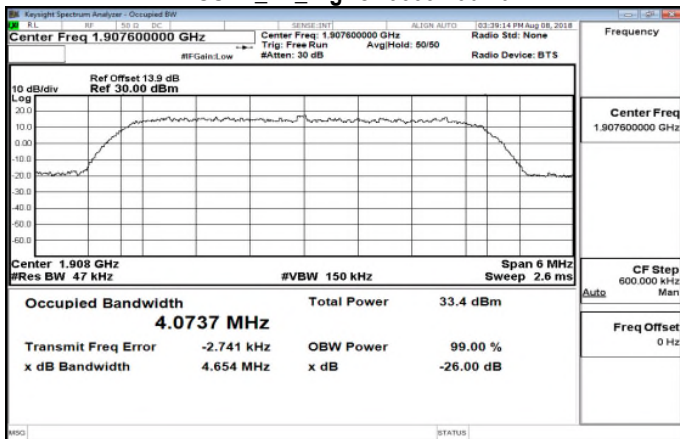
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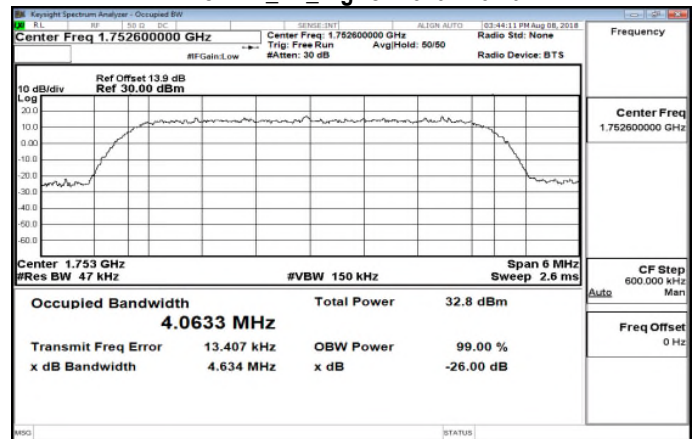
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HSUPA_B2_HighCH9538-1907.6



WCDMA_B4_HighCH1513-1752.6



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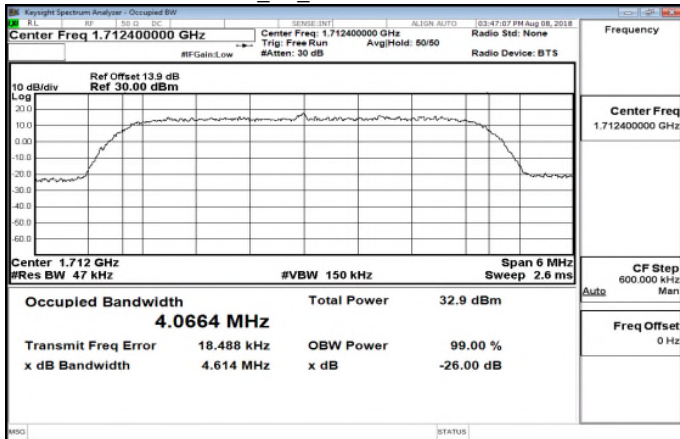
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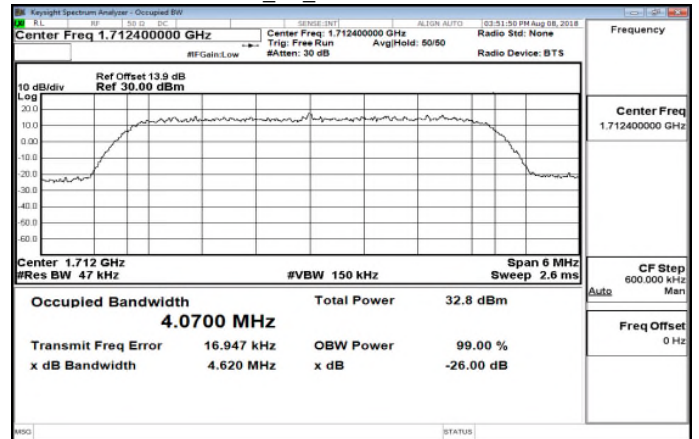
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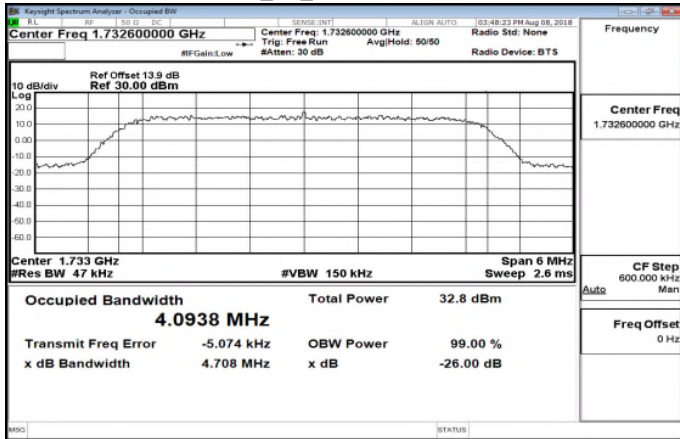
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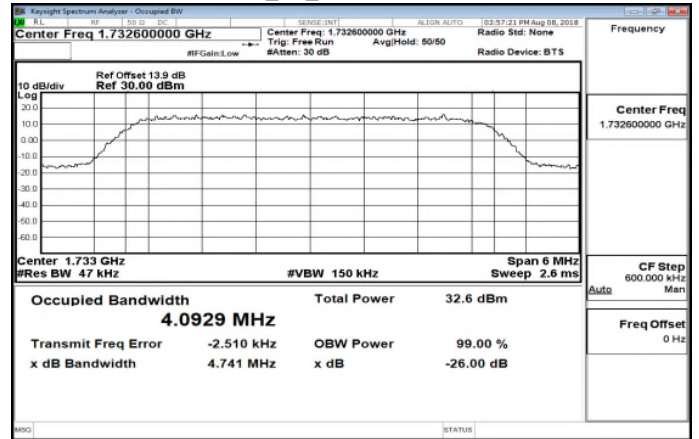
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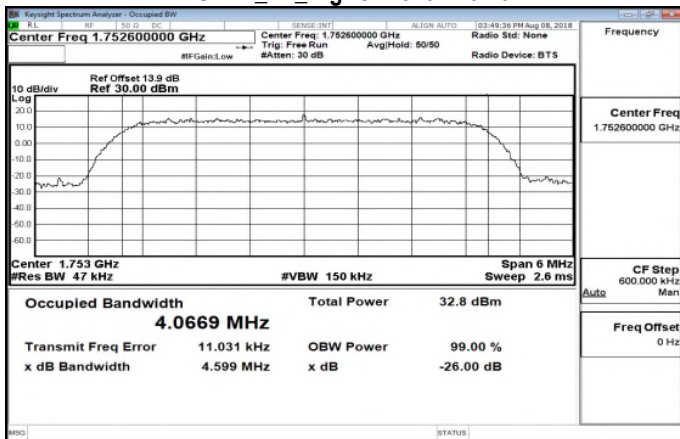
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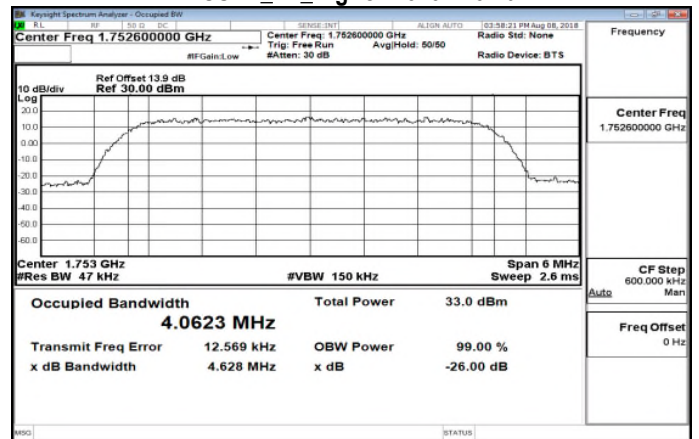
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HSDPA_B4_HighCH1513-1752.6



HSUPA_B4_HighCH1513-1752.6



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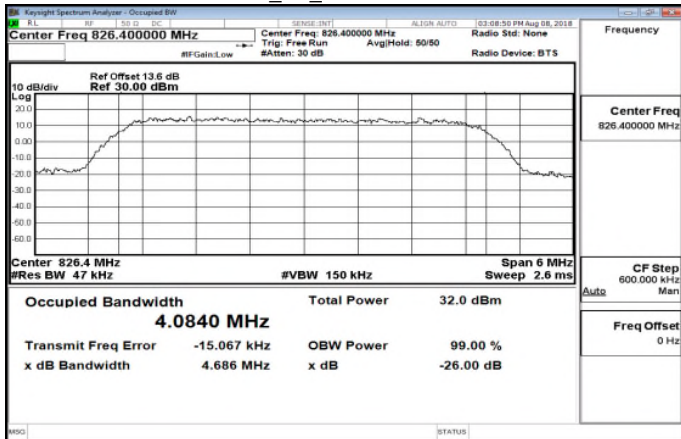
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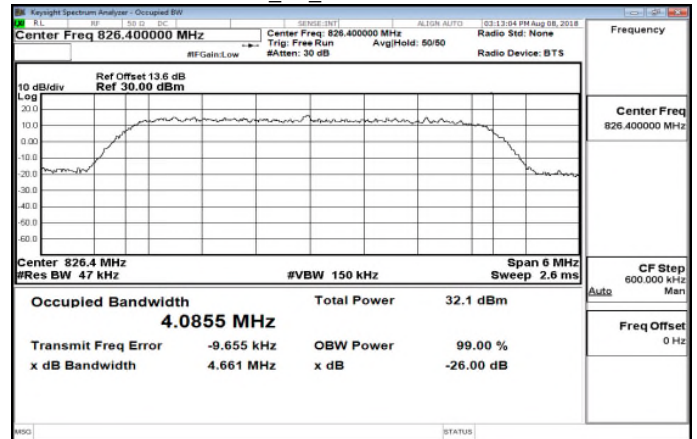
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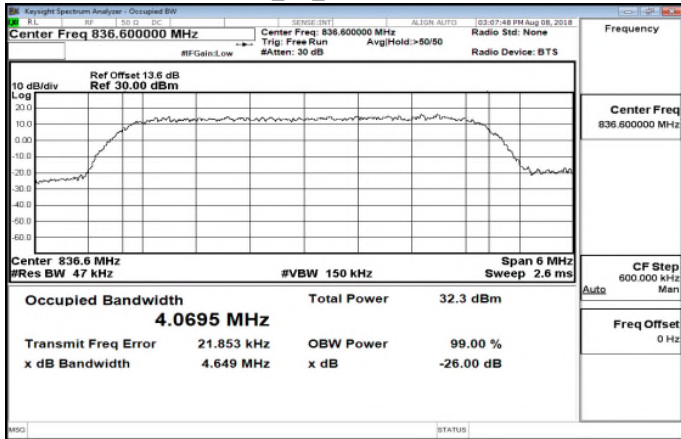
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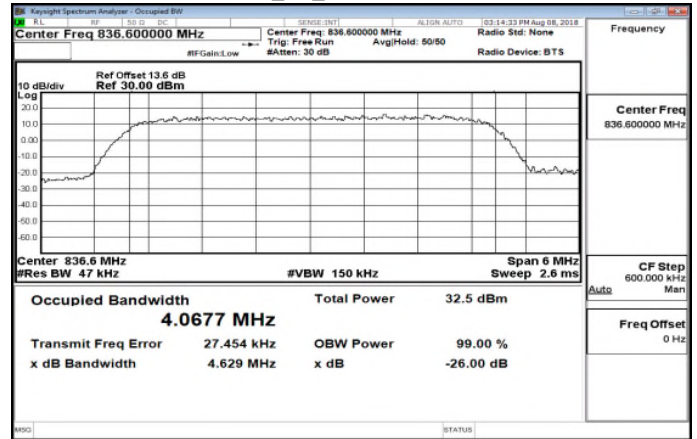
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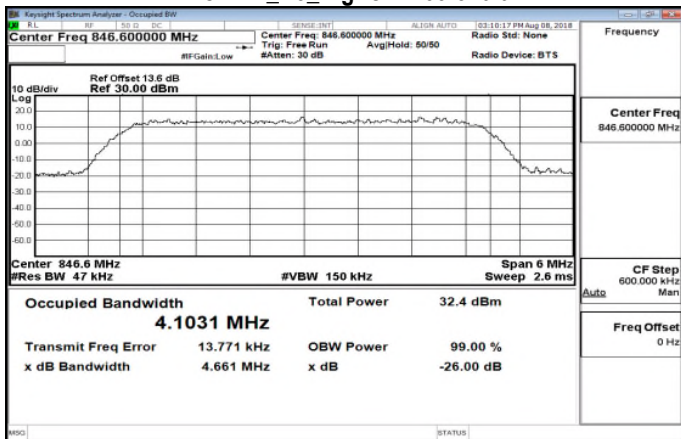
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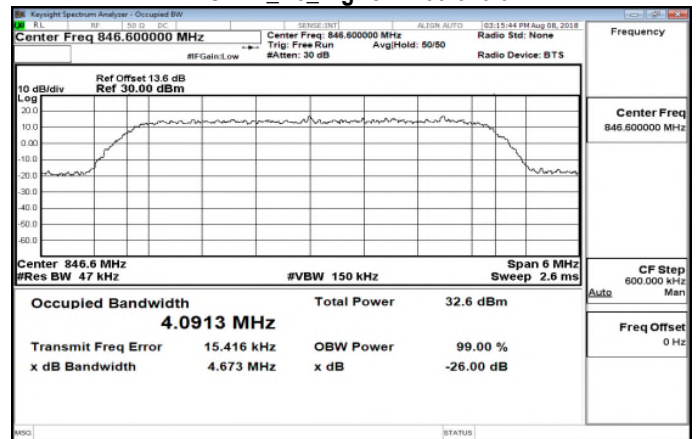
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WCDMA_B5_HighCH4233-846.6



HSDPA_B5_HighCH4233-846.6



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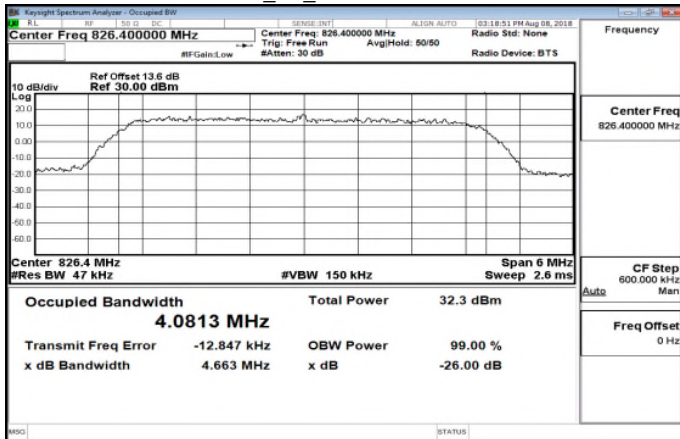
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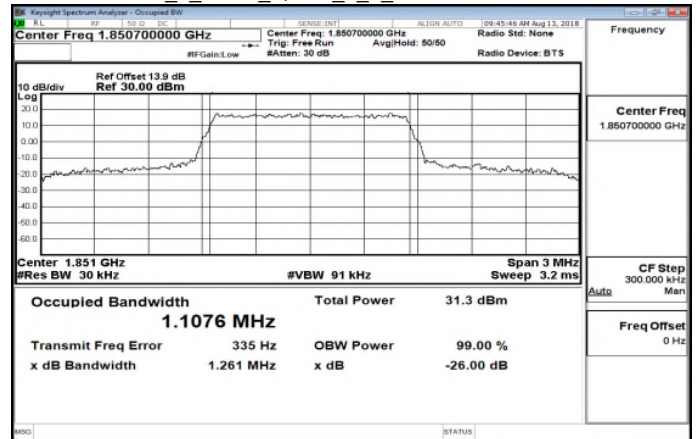
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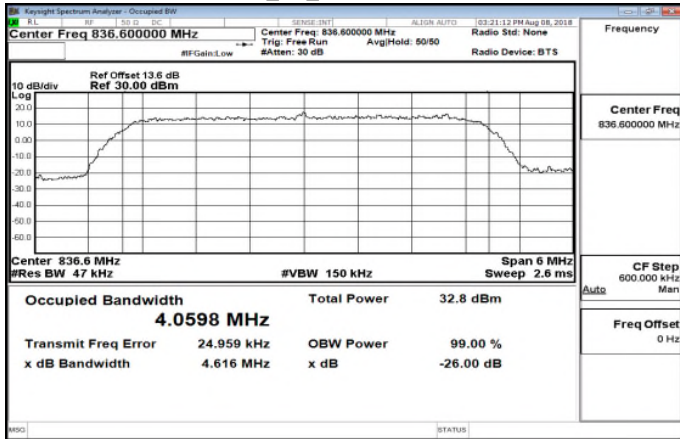
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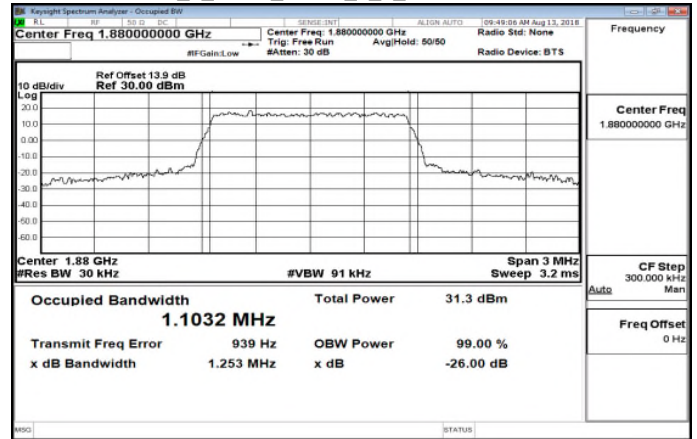
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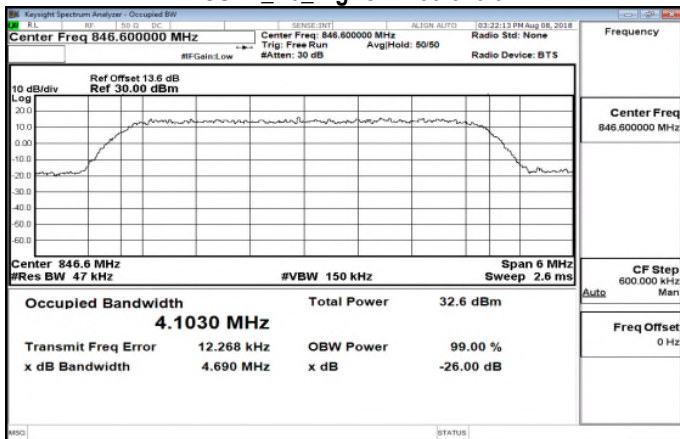
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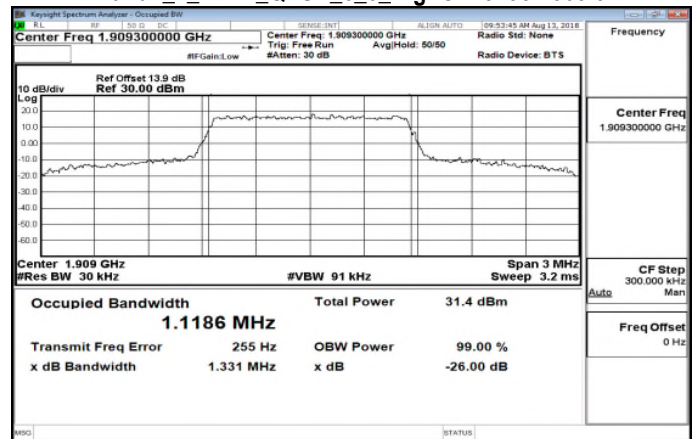
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HSUPA_B5_HighCH4233-846.6



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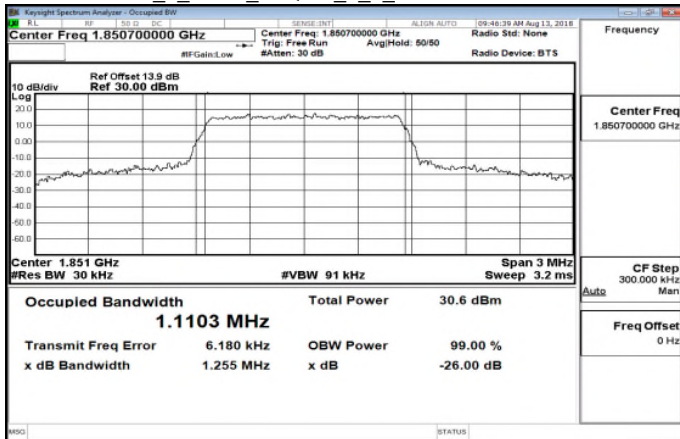
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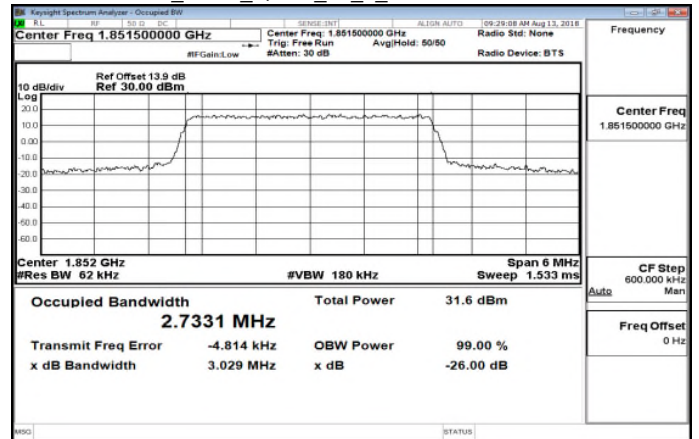
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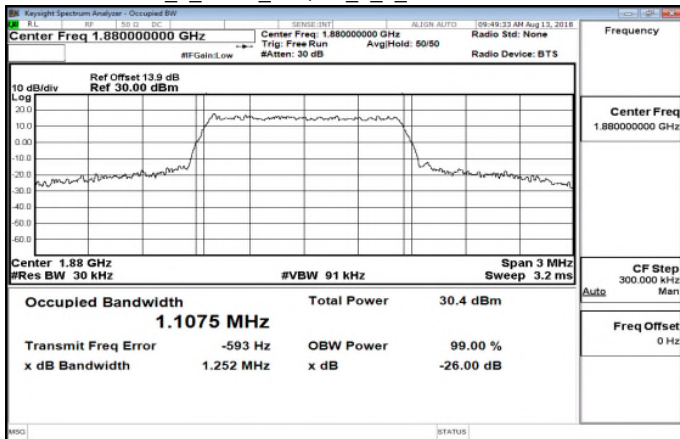
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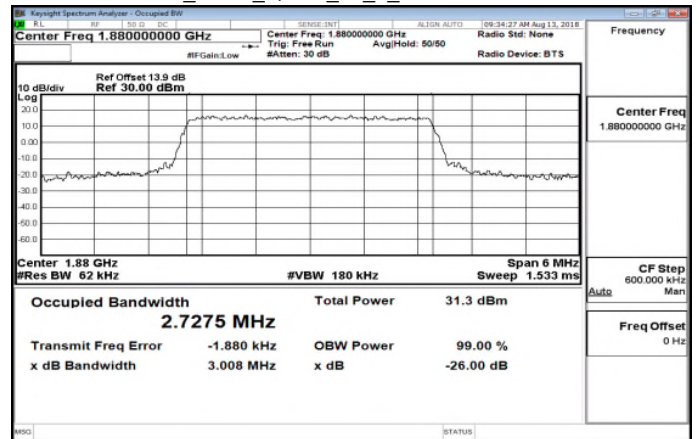
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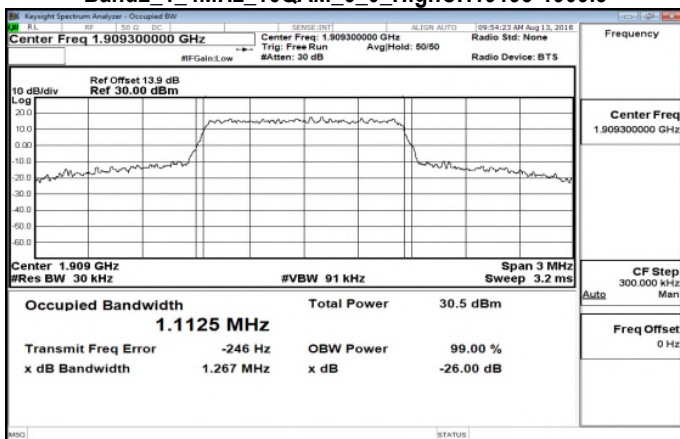
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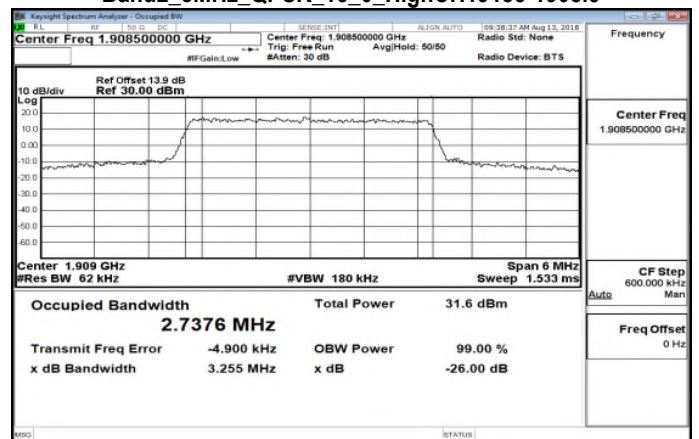
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Band2_1_4MHz_16QAM_6_0_HighCH19193-1909.3



Band2_3MHz_QPSK_15_0_HighCH19185-1908.5



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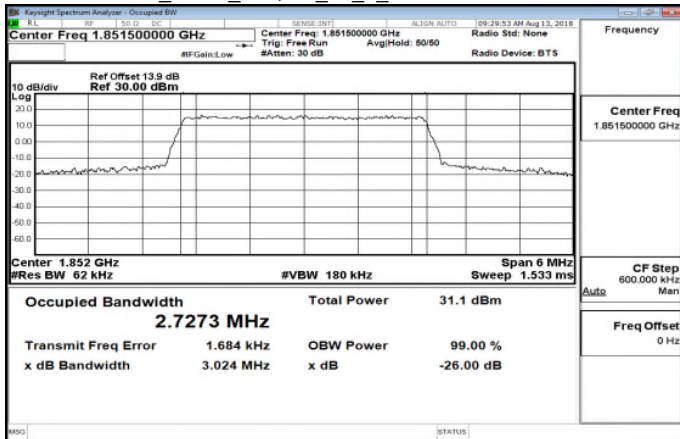
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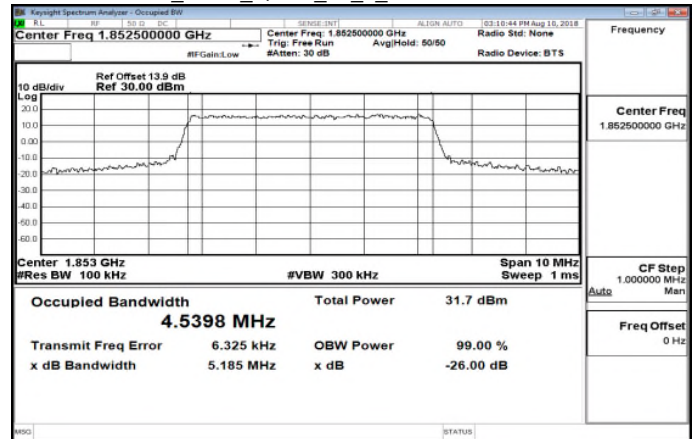
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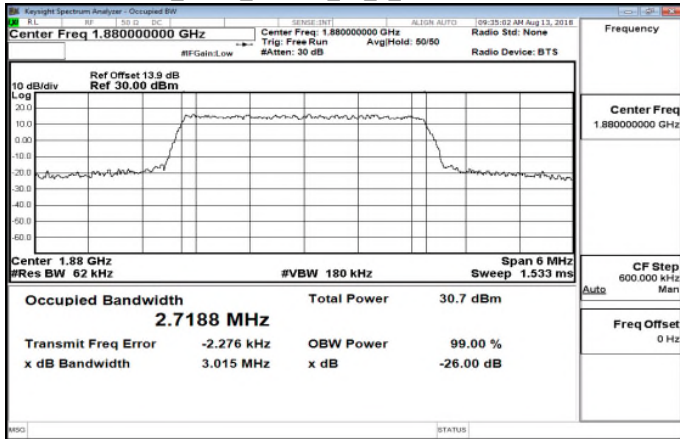
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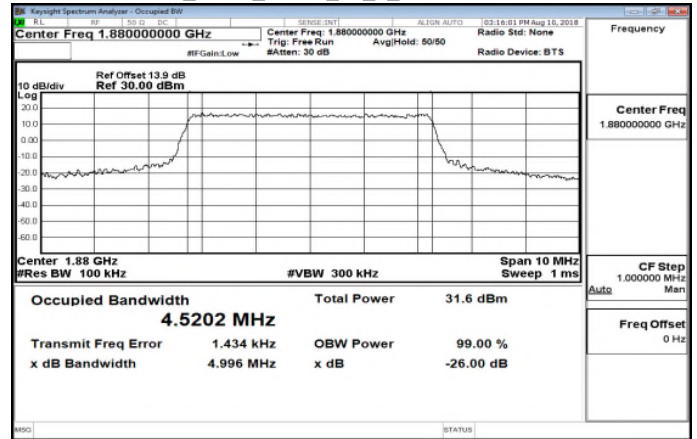
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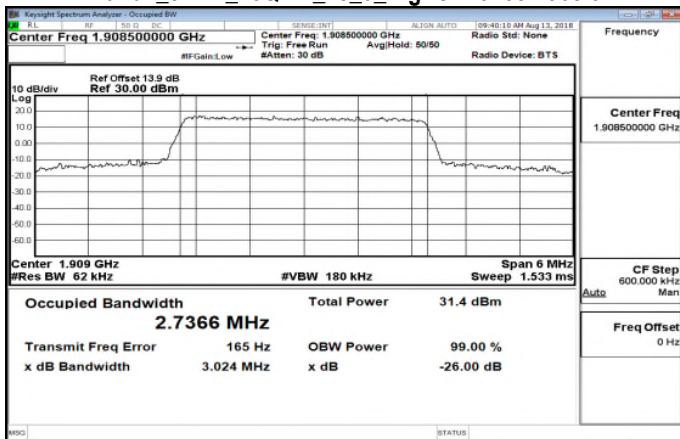
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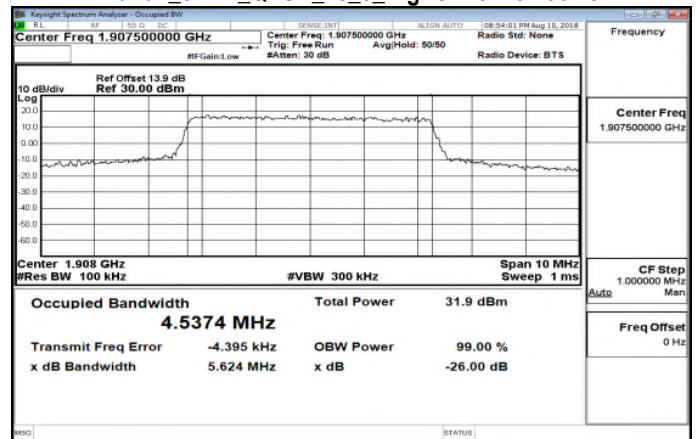
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Band2 3MHz_16QAM_15_0_HighCH19185-1908.5



Band2 5MHz_QPSK_25_0_HighCH19175-1907.5



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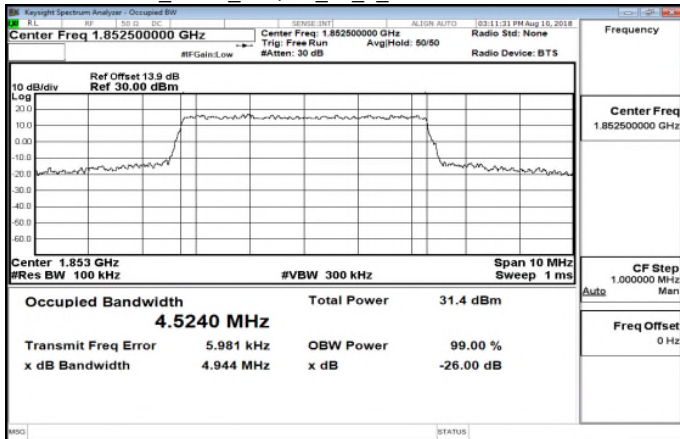
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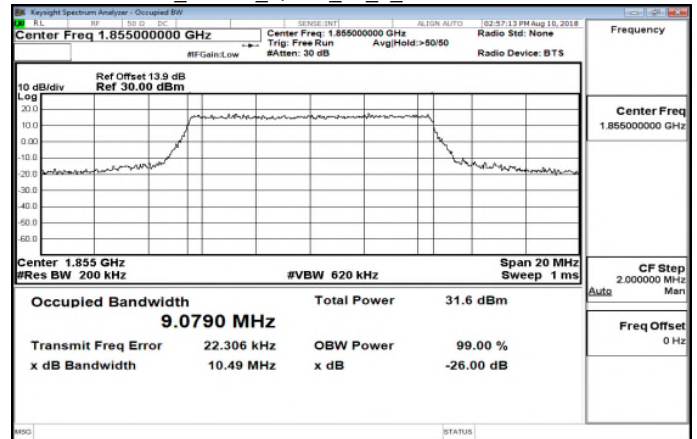
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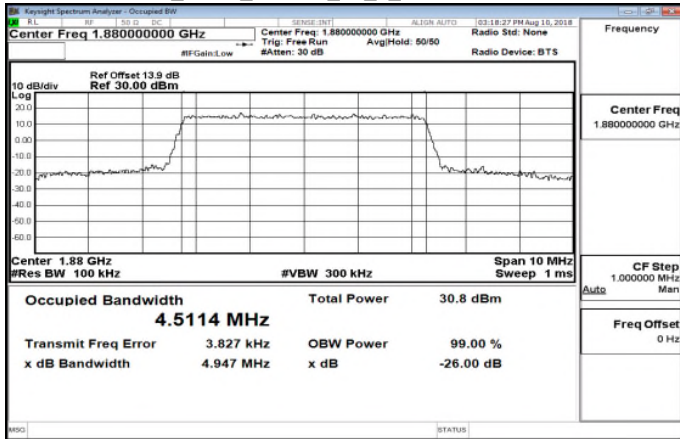
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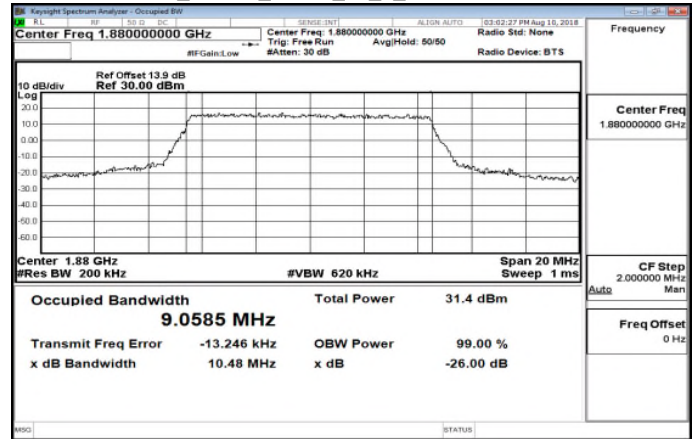
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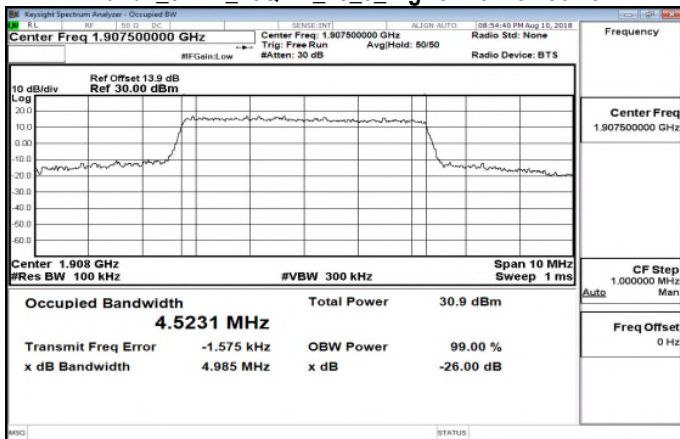
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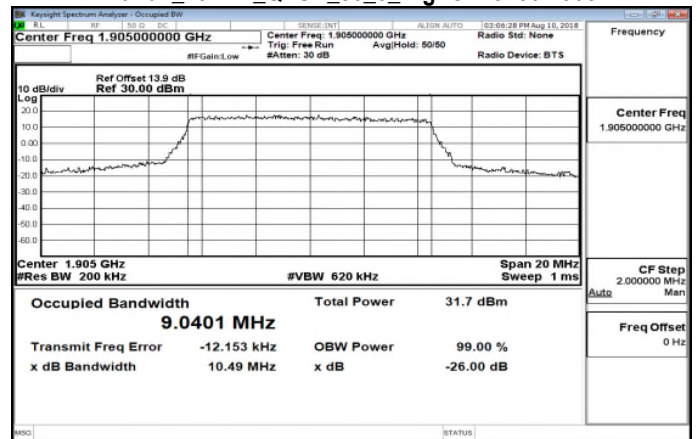
Band2 10MHz_QPSK 50_0 MidCH18900-1880



Band2 5MHz_16QAM 25_0 HighCH19175-1907.5



Band2 10MHz_QPSK 50_0 HighCH19150-1905



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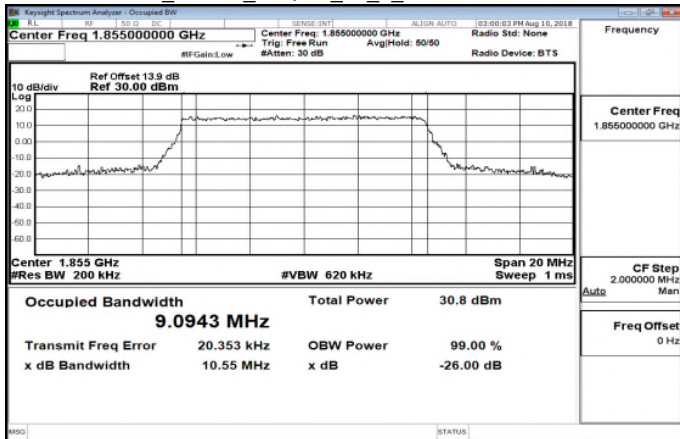
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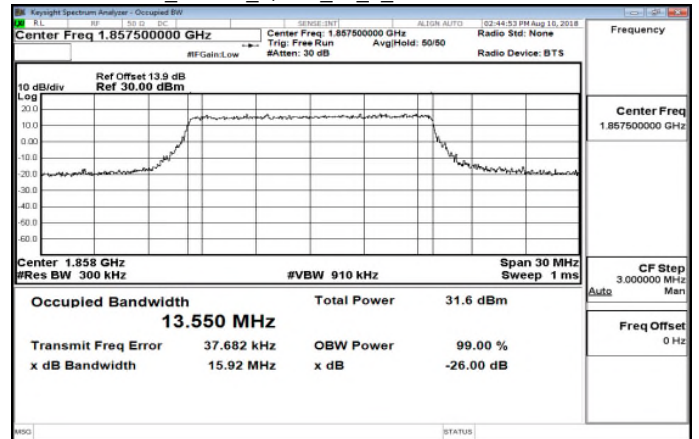
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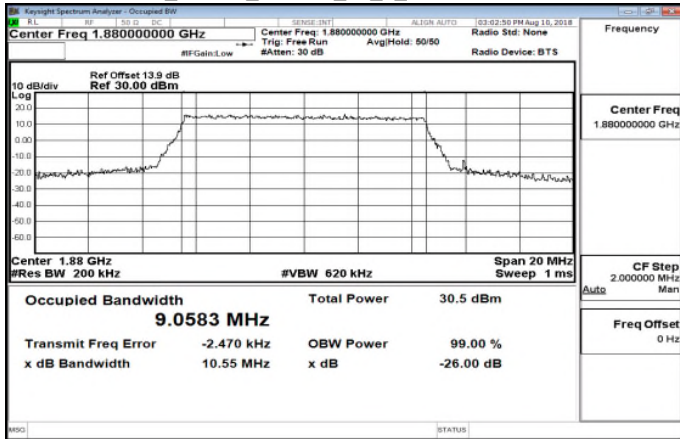
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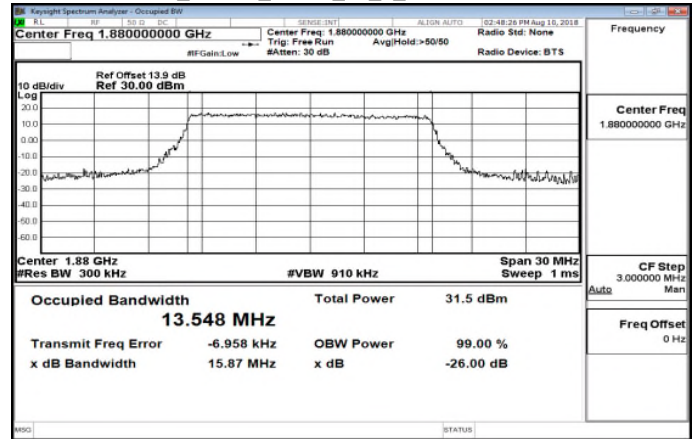
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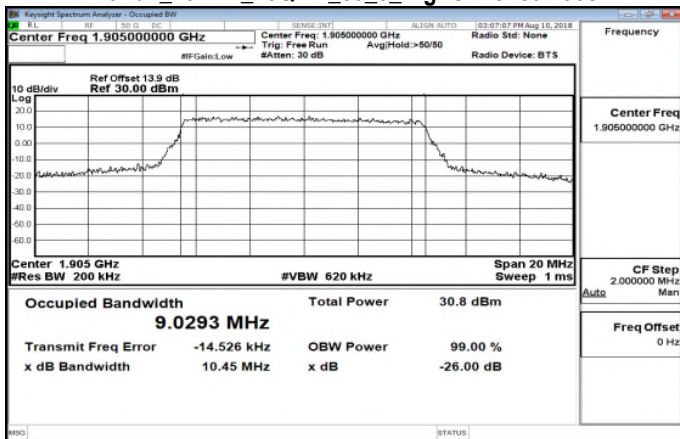
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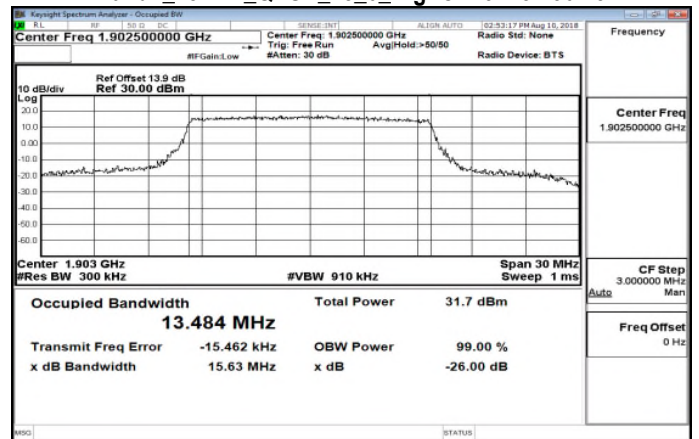
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Band2_10MHz_16QAM_50_0_HighCH19150-1905



Band2_15MHz_QPSK_75_0_HighCH19125-1902.5



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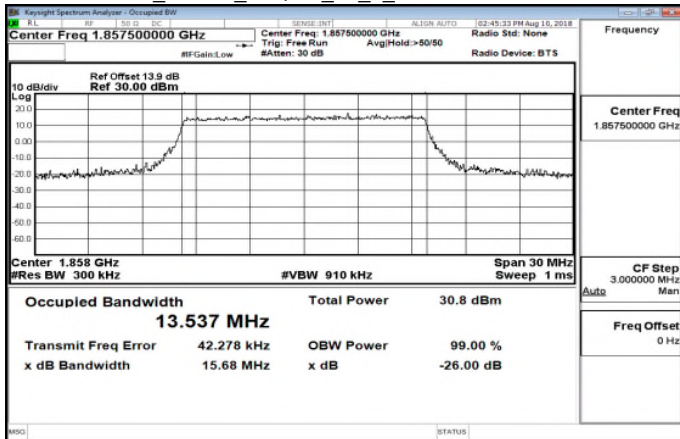
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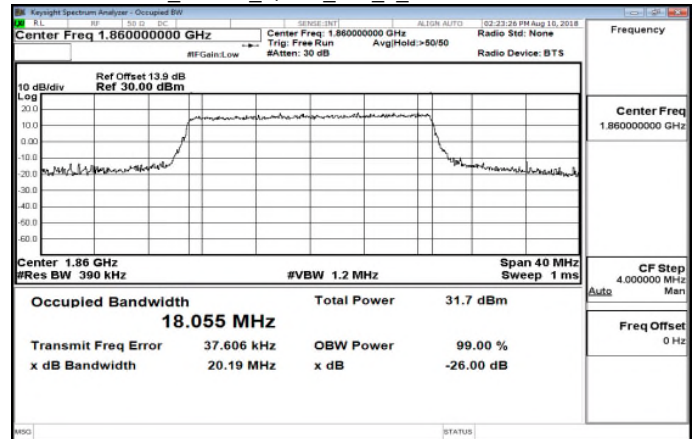
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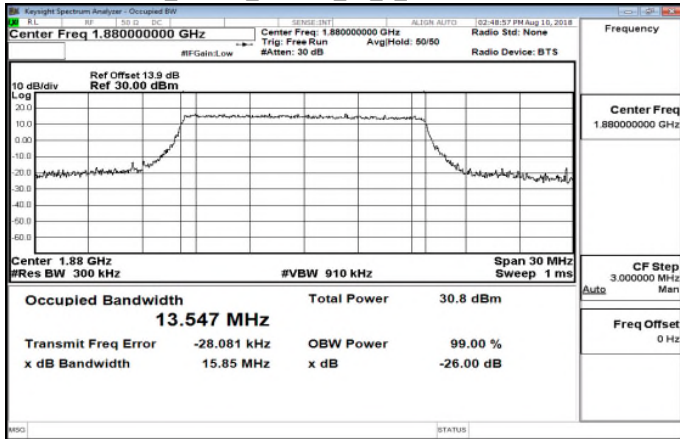
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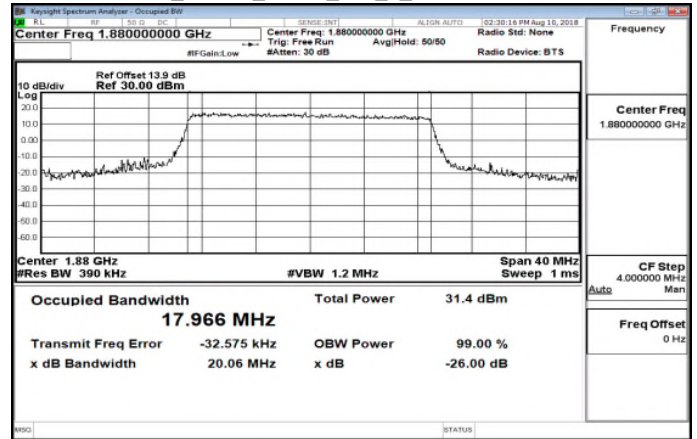
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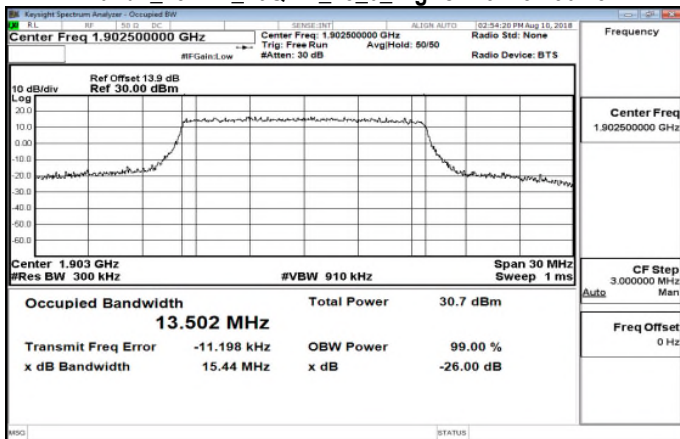
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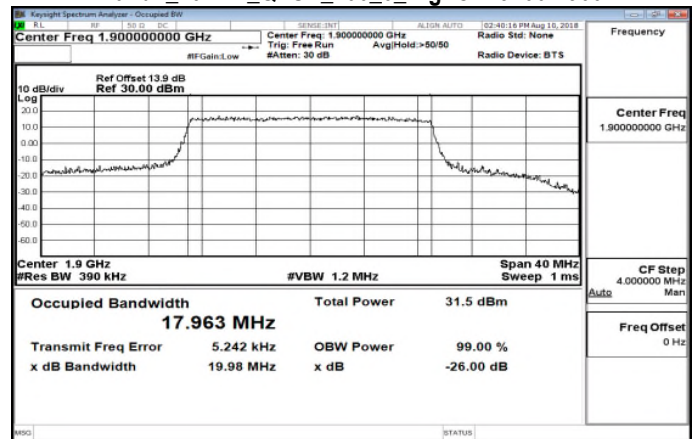
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Band2_15MHz_16QAM_75_0_HighCH19125-1902.5



Band2_20MHz_QPSK_100_0_HighCH19100-1900



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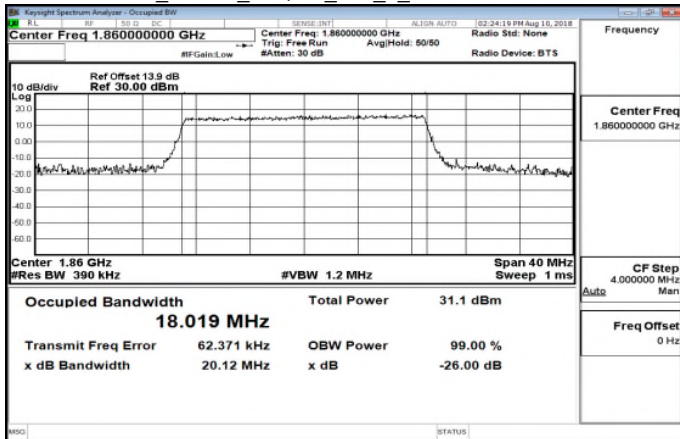
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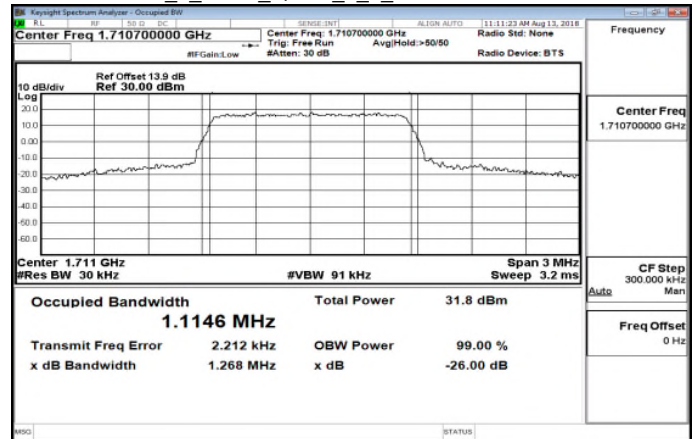
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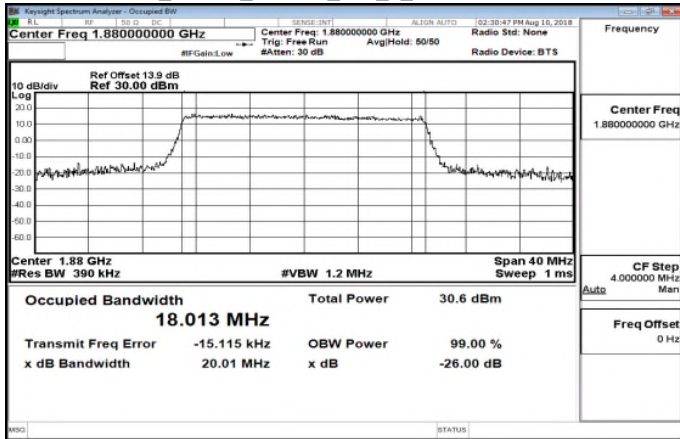
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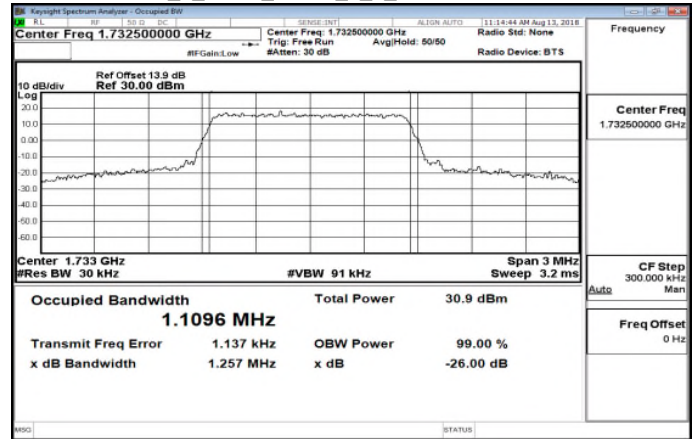
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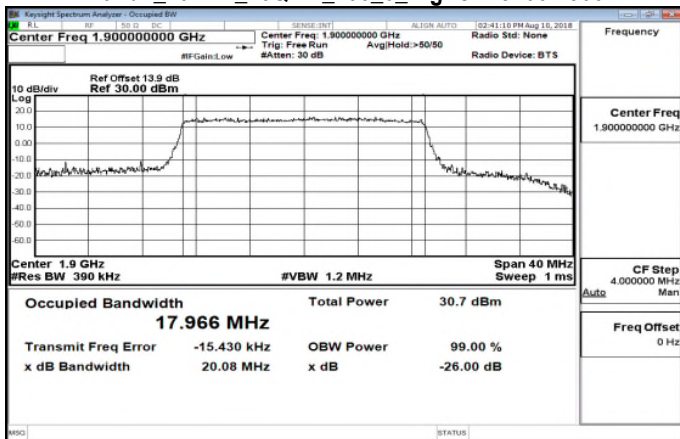
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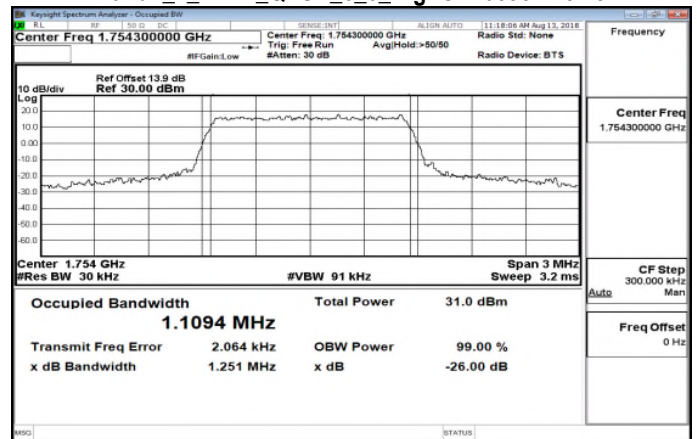
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Band2 20MHz_16QAM_100_0_HighCH19100-1900



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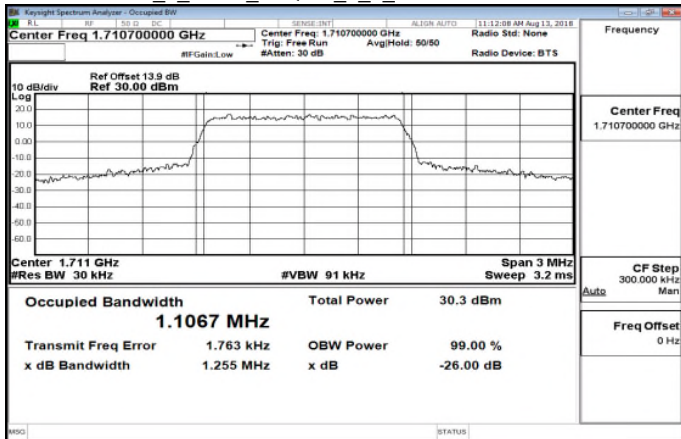
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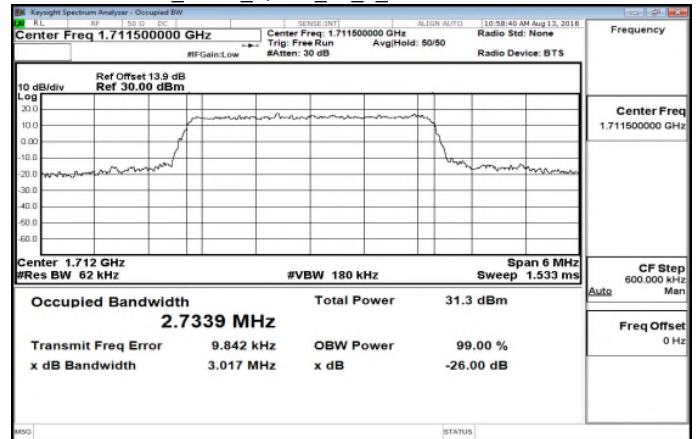
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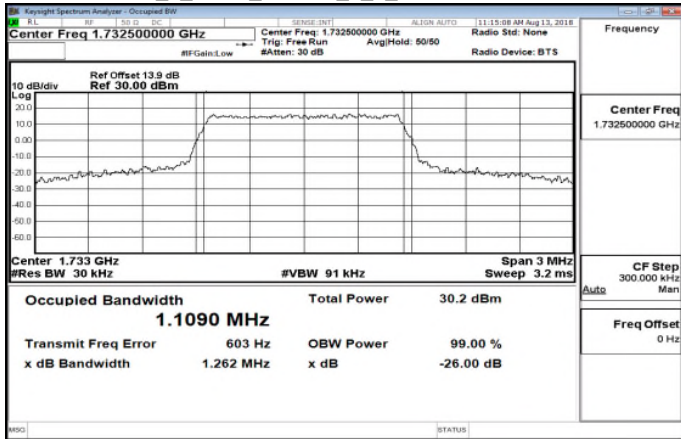
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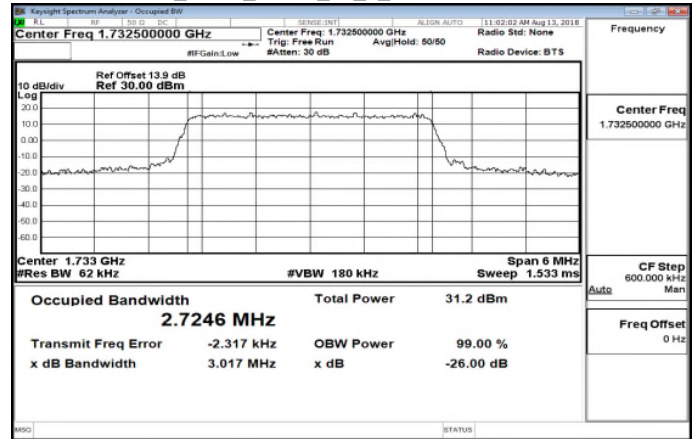
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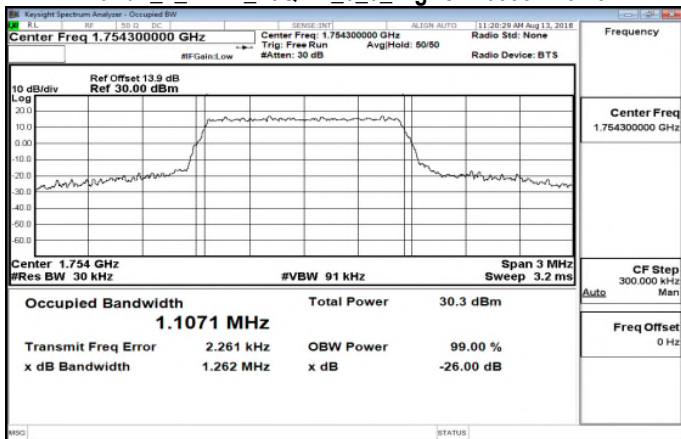
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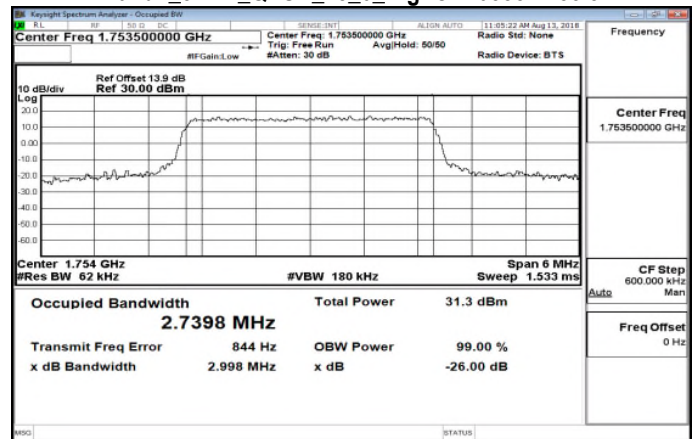
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Band4_3MHz_QPSK_15_0_HighCH20385-1753.5



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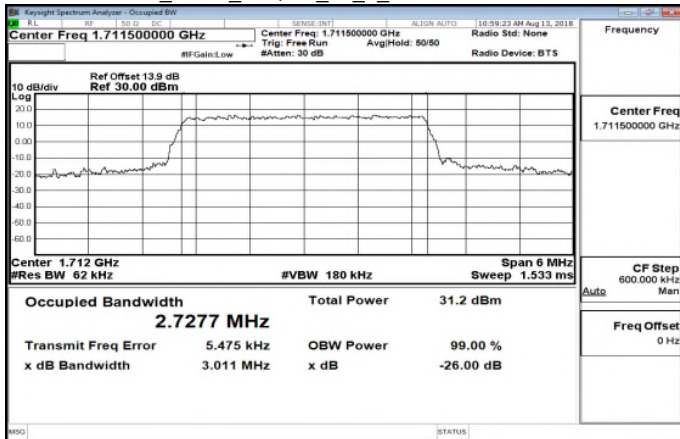
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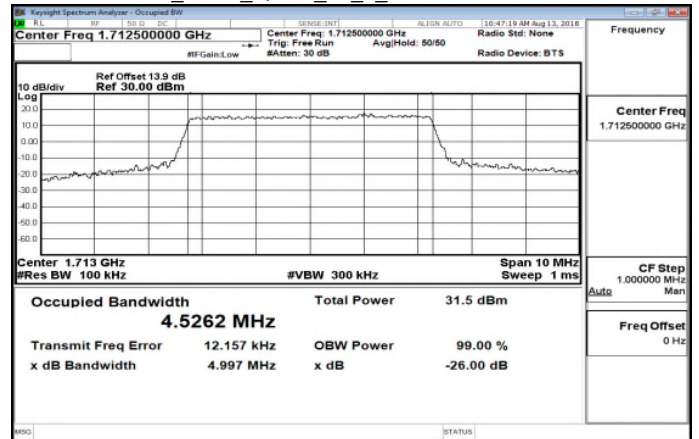
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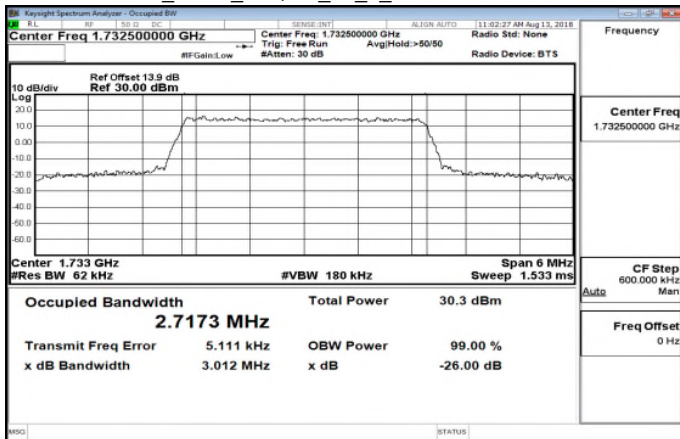
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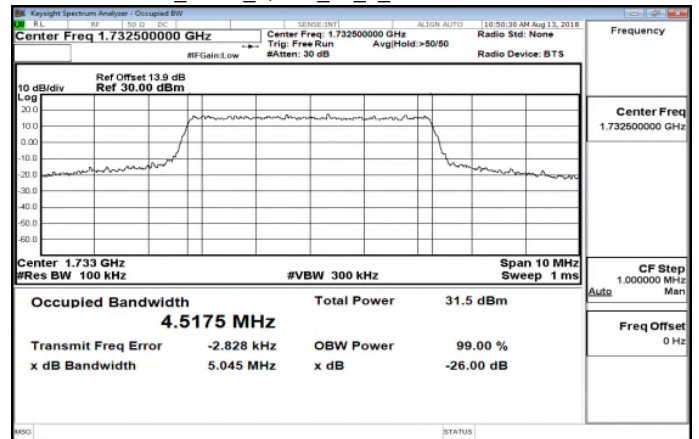
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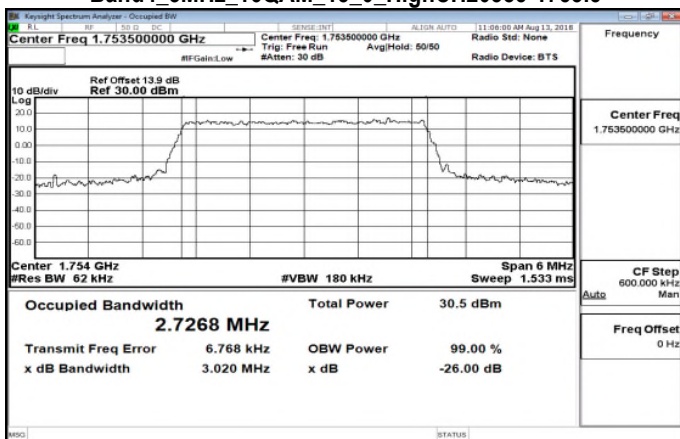
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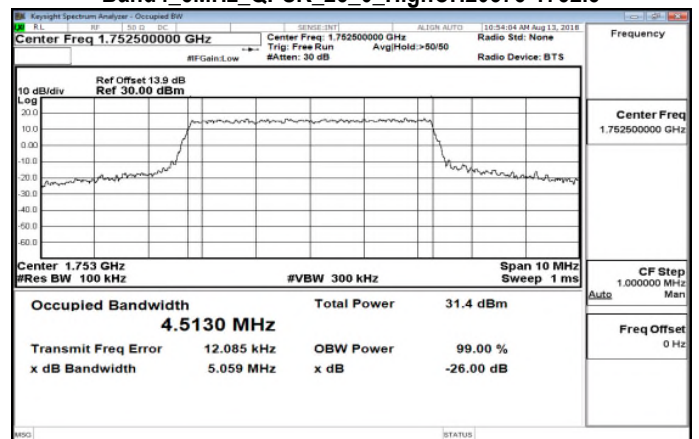
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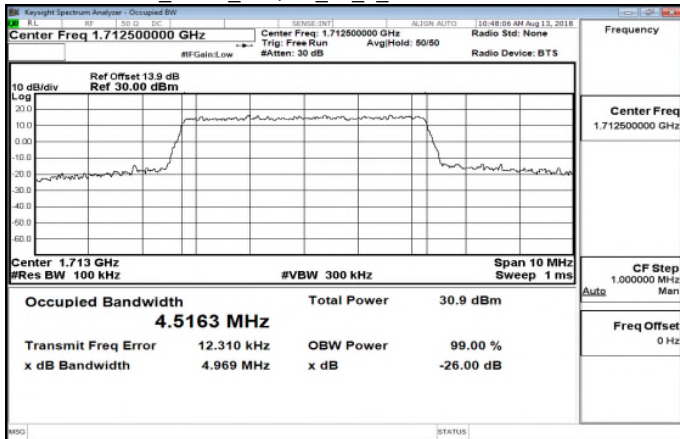
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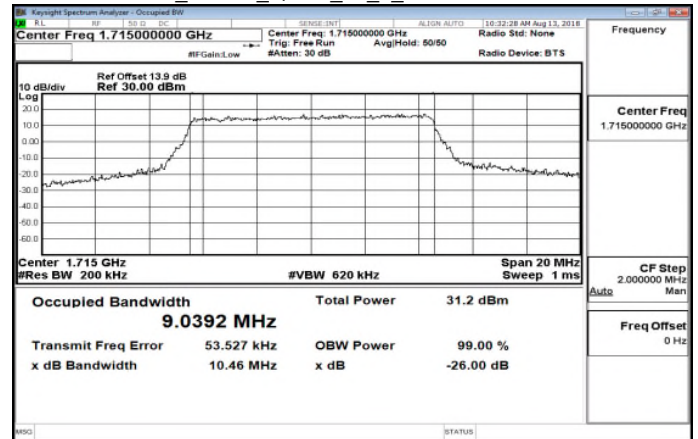
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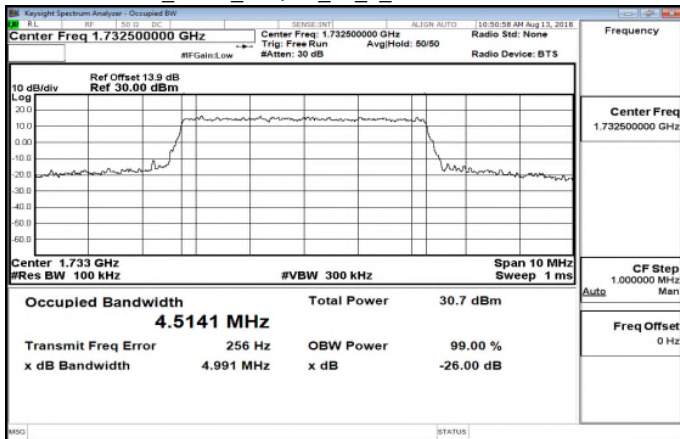
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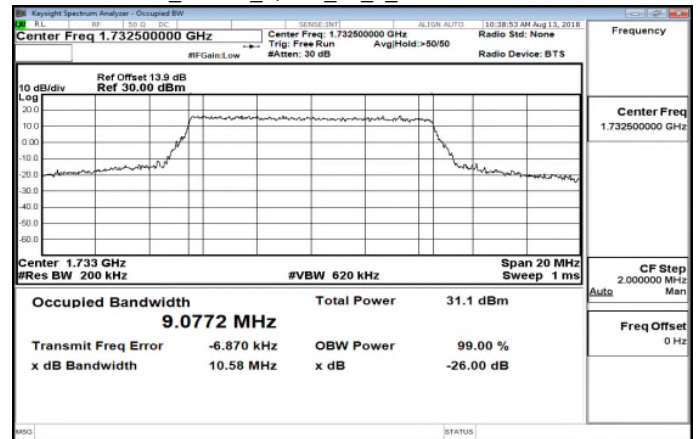
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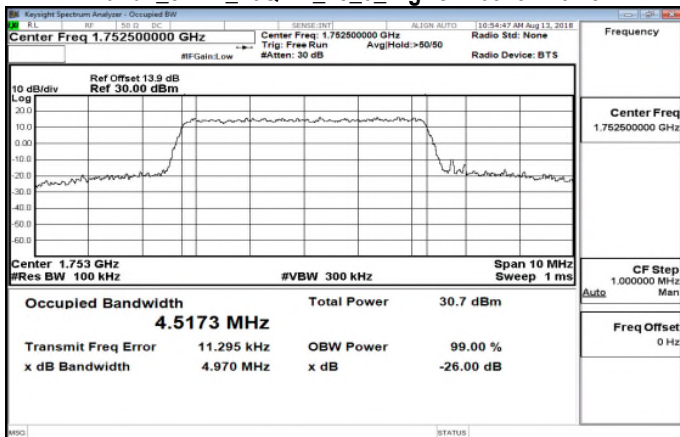
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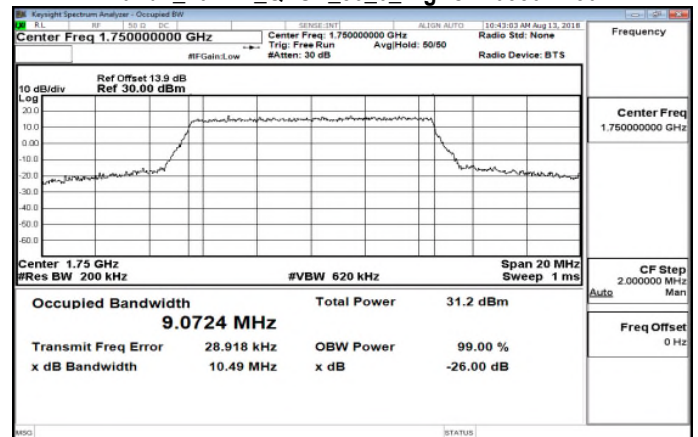
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Band4_5MHz_16QAM_25_0_HighCH20375-1752.5



Band4_10MHz_QPSK_50_0_HighCH20350-1750



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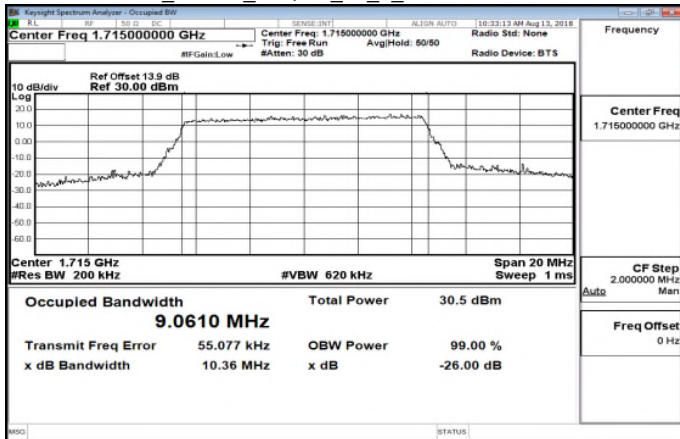
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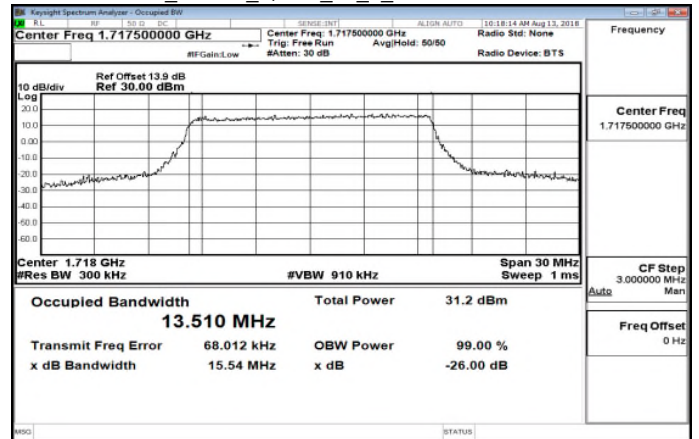
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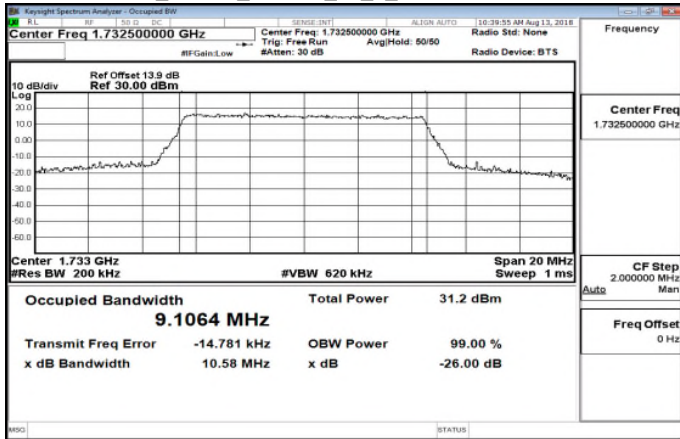
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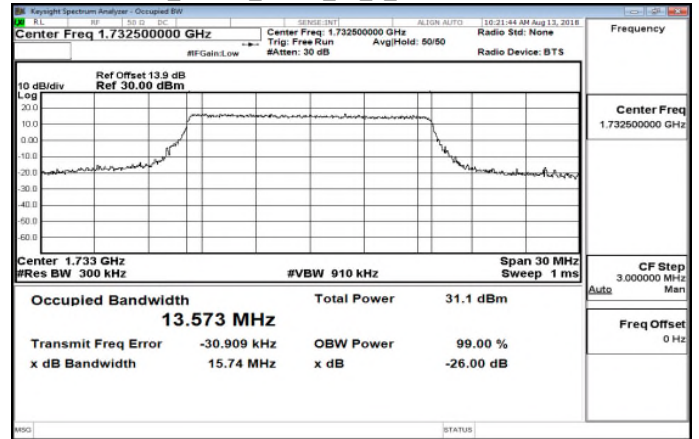
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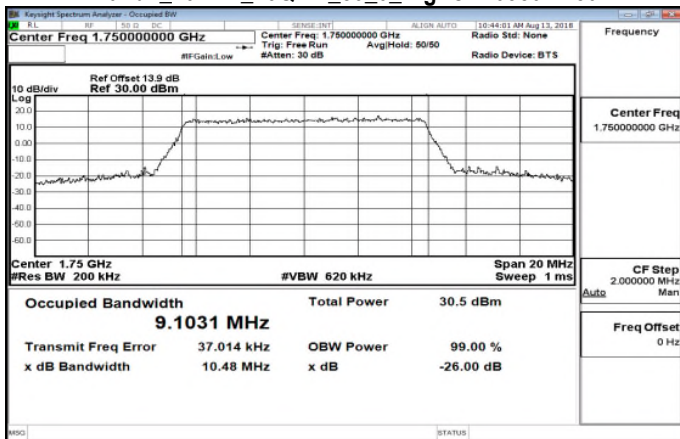
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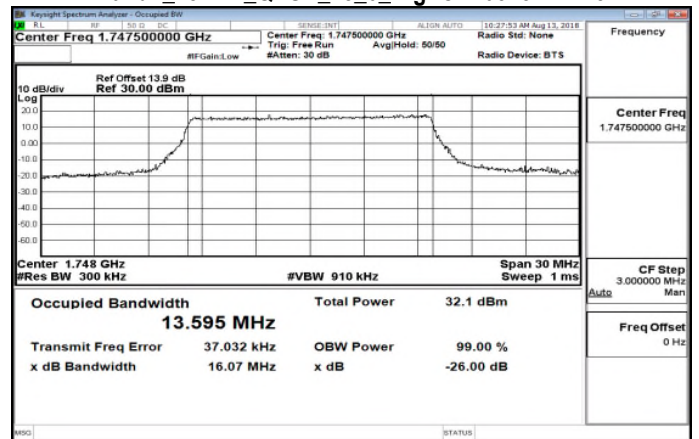
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Band4 10MHz 16QAM 50 0 HighCH20350-1750



Band4 15MHz QPSK 75 0 HighCH20325-1747.5



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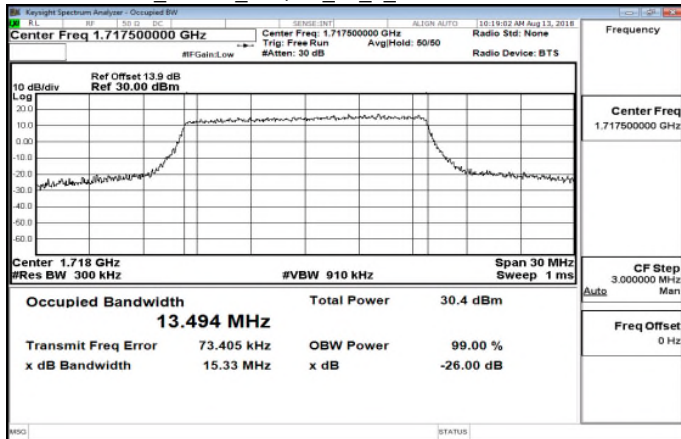
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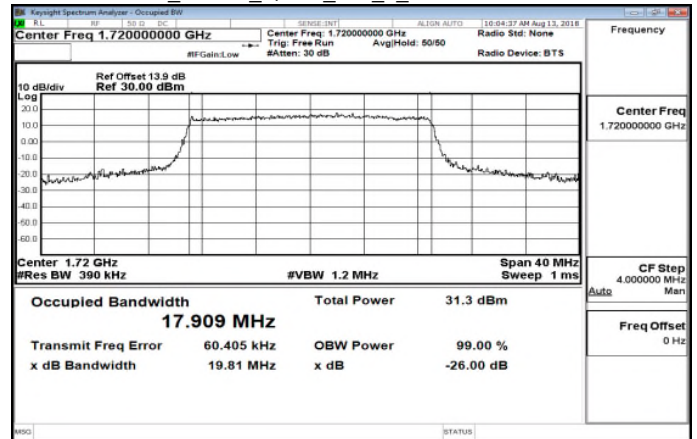
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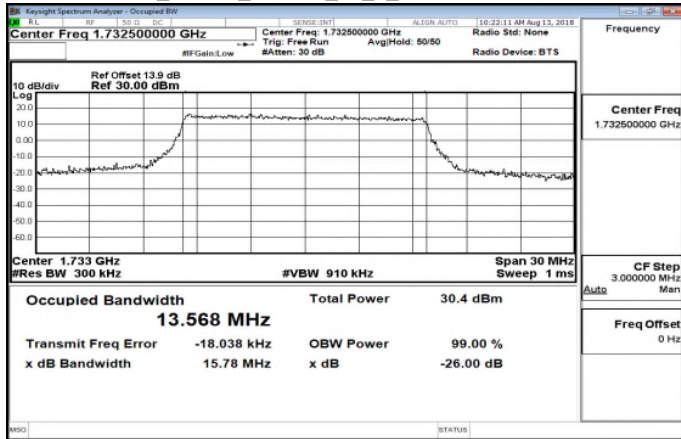
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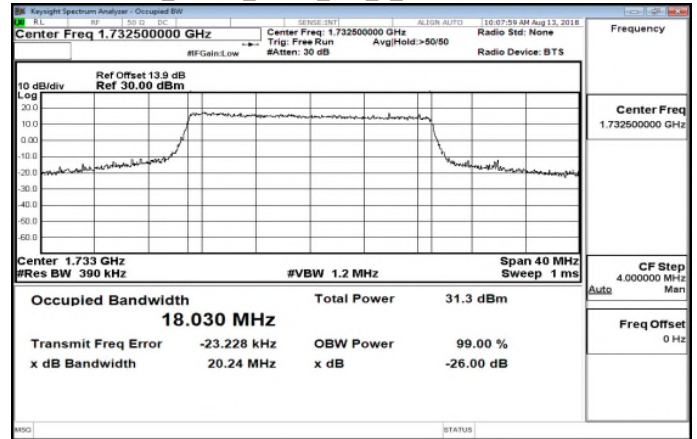
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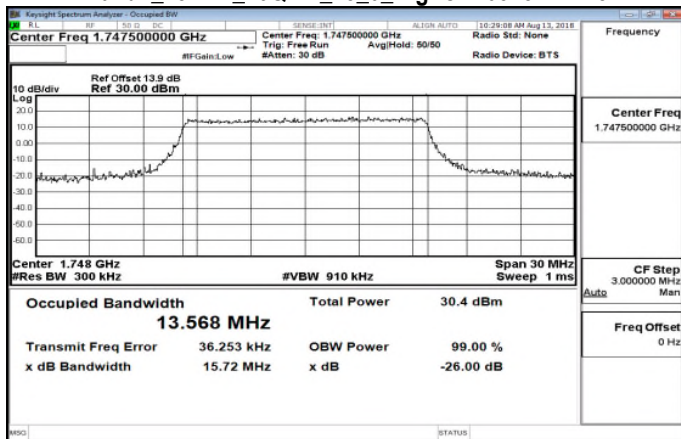
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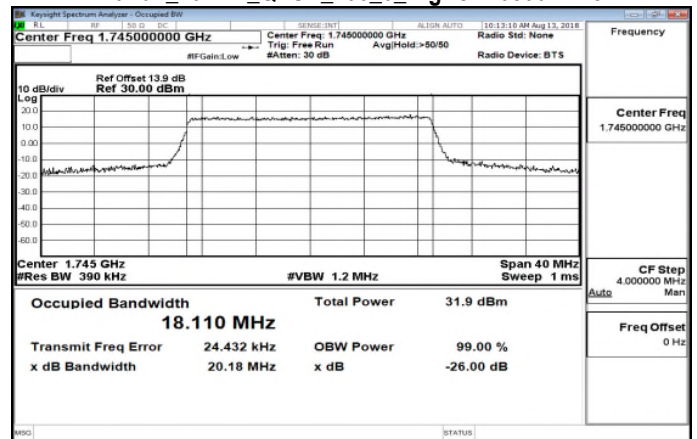
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Band4 15MHz_16QAM_75_0_HighCH20325-1747.5



Band4 20MHz_QPSK_100_0_HighCH20300-1745



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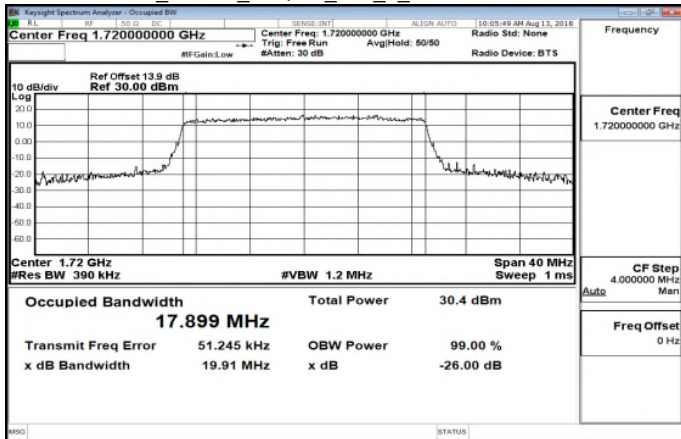
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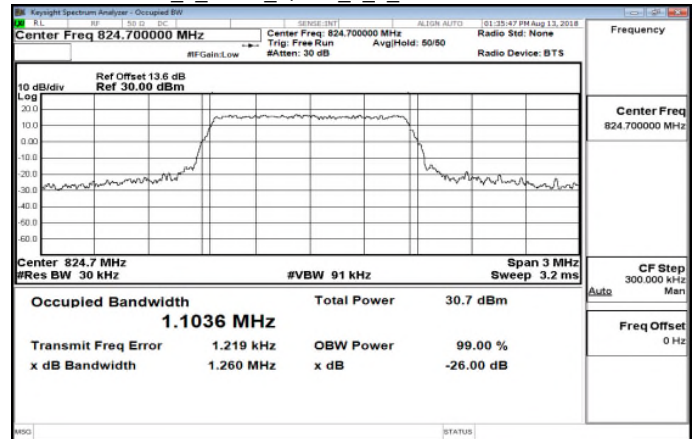
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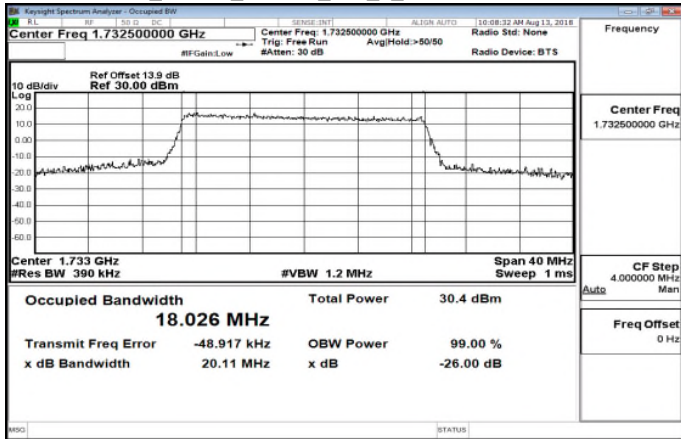
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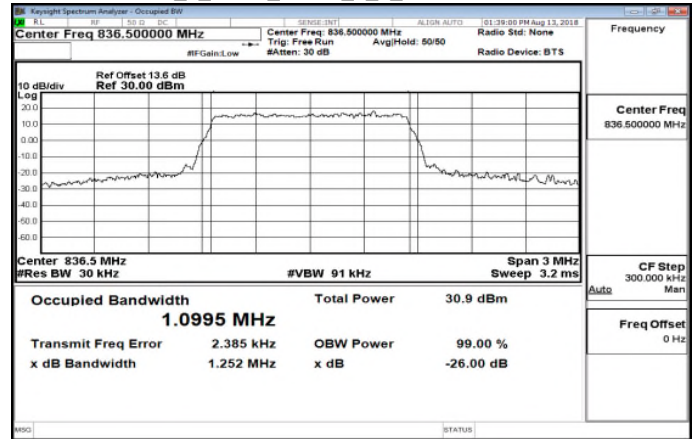
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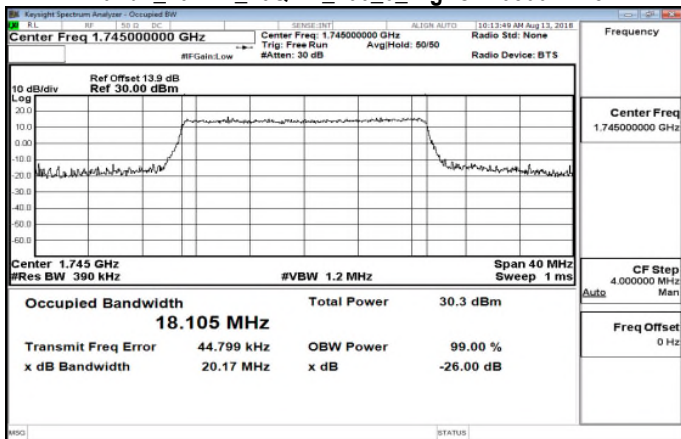
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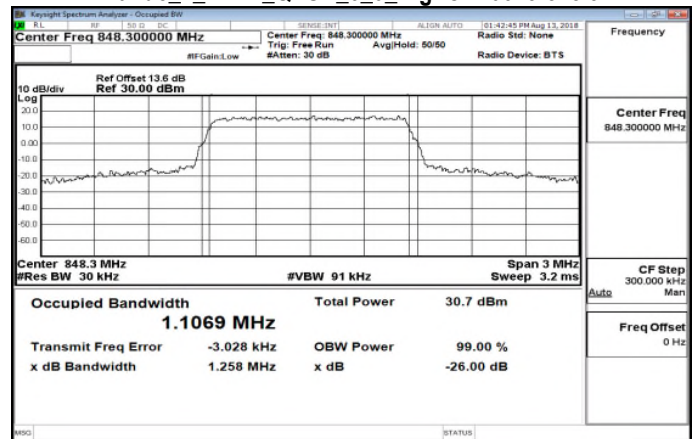
Band5 1 4MHz QPSK 6 0 MidCH20525-836.5



Band4 20MHz 16QAM 100 0 HighCH20300-1745



Band5 1 4MHz QPSK 6 0 HighCH20643-848.3



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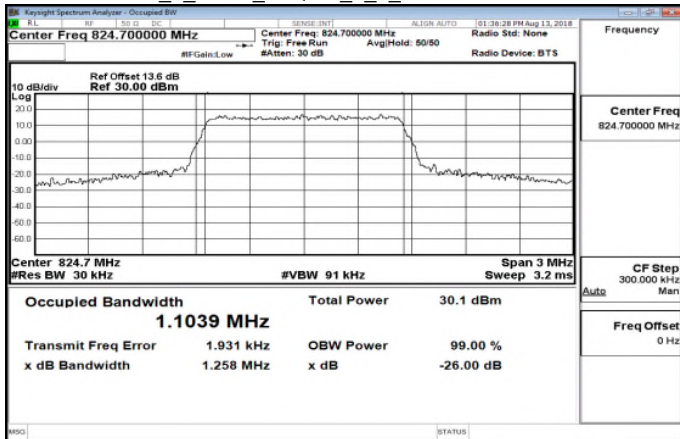
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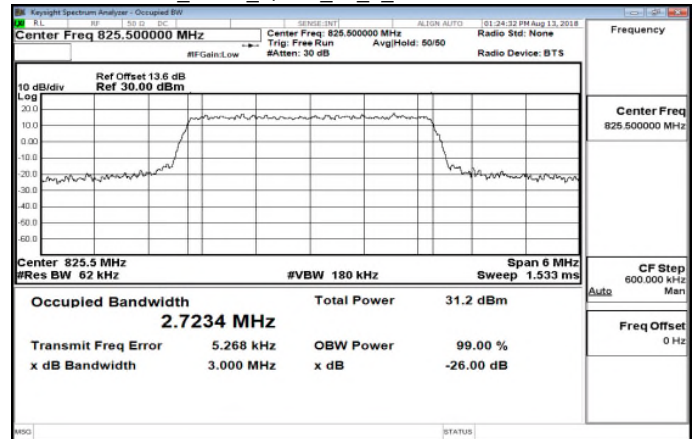
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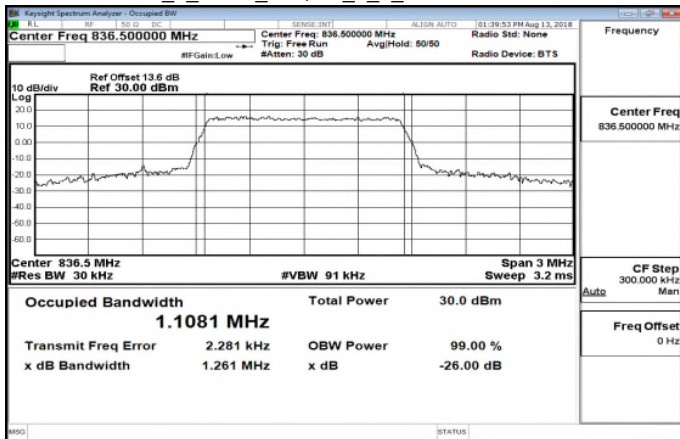
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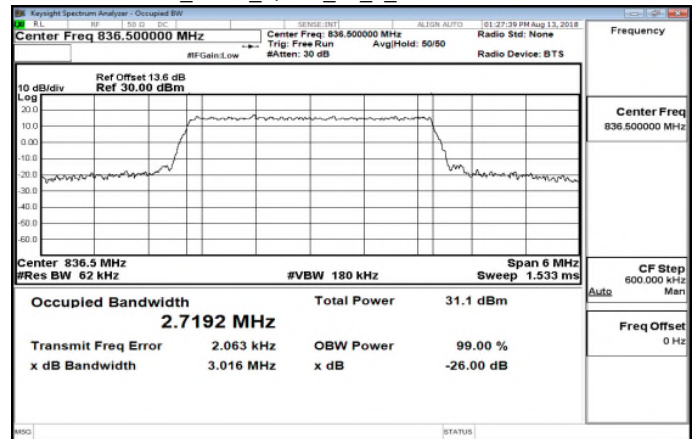
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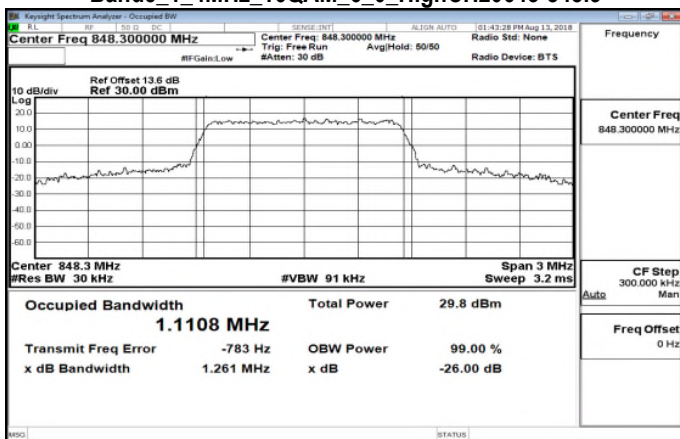
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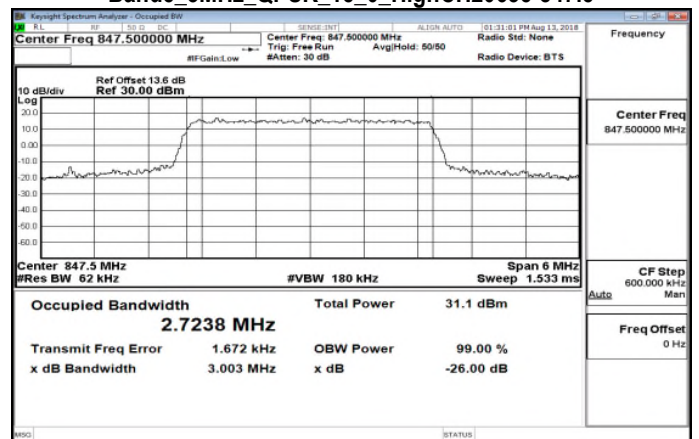
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Band5_1_4MHz_16QAM_6_0_HighCH20643-848.3



Band5_3MHz_QPSK_15_0_HighCH20635-847.5



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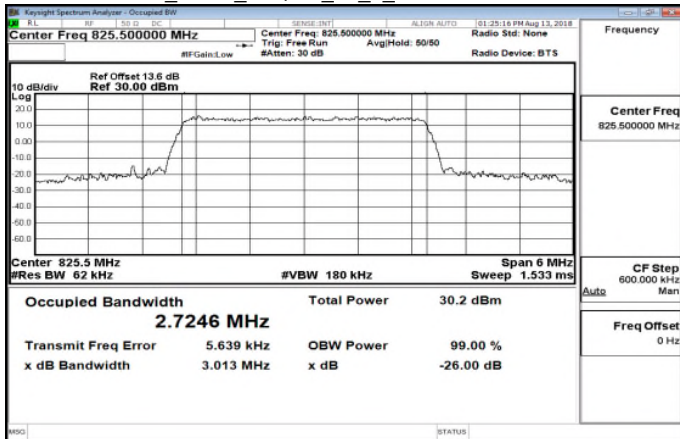
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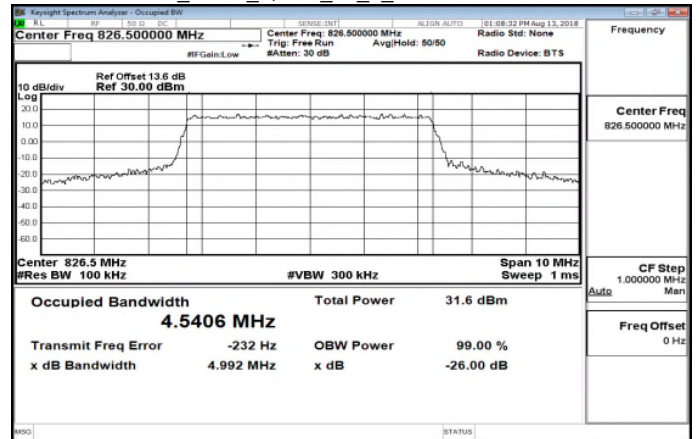
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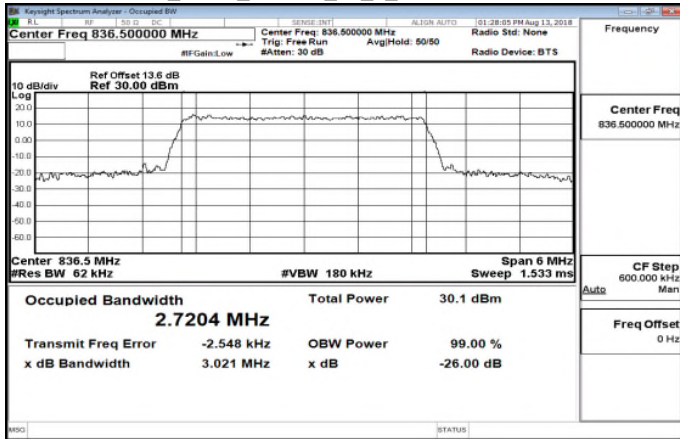
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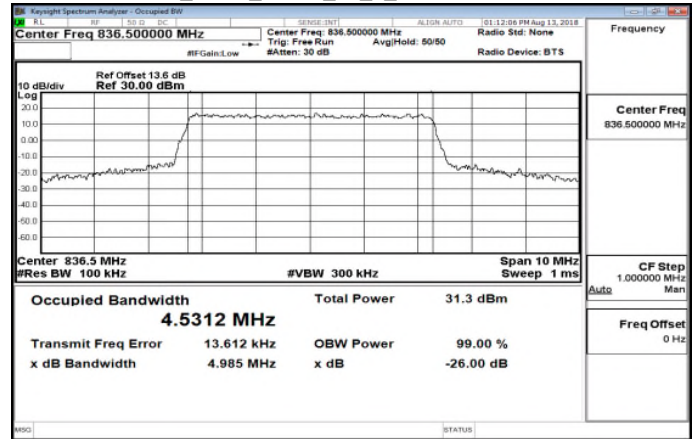
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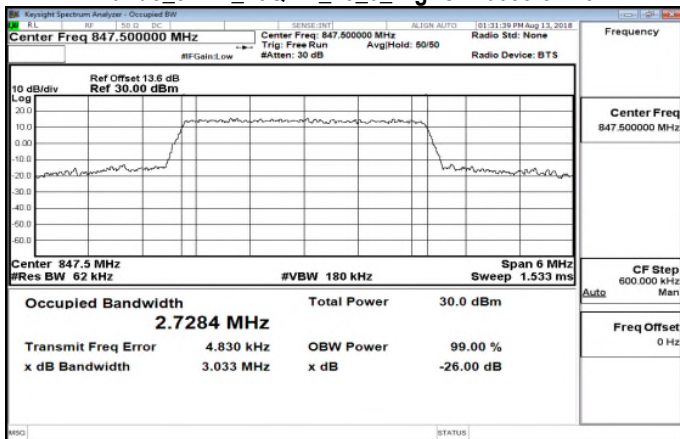
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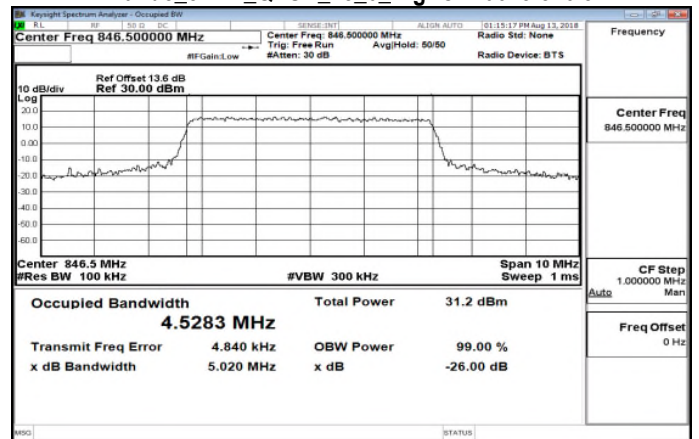
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Band5_3MHz_16QAM_15_0_HighCH20635-847.5



Band5_5MHz_QPSK_25_0_HighCH20625-846.5



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