

## 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, PART 90S REQUIREMENT

OF

**Applicant:** HP Inc.  
3390 East Harmony Road, Fort Collins Colorado, USA 80528

**Product Name:** Notebook PC

**Brand Name:** HP

**Model No.:** HSN-Q09C

**Model Difference:** N/A

**FCC ID:** B94HNP09CWPZV

**Report Number:** E2/2018/10056

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

**Issue Date:** Feb. 27, 2018

**Date of Test:** Jan. 15, 2018 ~ Feb. 14, 2018

**Date of EUT Received:** Jan. 15, 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.

**Prepared By:** Tiffany Kao  
*Tiffany Kao / Clerk*

**Approved By:** Jim Chang  
*Jim Chang / Manager*



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## Revision History

Report Number	Revision	Description	Issue Date
E2/2018/10056	Rev.00	Initial creation of document	Feb. 27, 2018

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## 1. GENERAL PRODUCT INFORMATION

### 1.1. Product Description

General:

Product Name:	Notebook PC	
Brand Name:	HP	
Model No.:	HSN-Q09C	
Model Difference:	N/A	
Product SW/HW version:	N/A / N/A	
Power Supply:	7.7Vdc from Rechargeable Li-polymer Battery Pack or 5V / 9V / 10V / 12V /15V /20V by AC/DC Power Adapter	
	Battery:	Model No.: HSTNN-IB8D, Supplier: SIMPLO
	Adapter:	1.Model No.: TPN-CA06, Supplier: Chicony 2.Model No.: TPN-AA03, Supplier: AcBel 3.Model No.: TPN-CA10, Supplier: Chicony 4.Model No.: TPN-LA12, Supplier: LITE-ON 5.Model No.: TPN-TA02, Supplier: ASTEC
IMEI:	359195080006260	

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### Antenna Designation

Vendor	Type	Main / Aux	Antenna Part No.	Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)
INPAQ Corporation	Couple	Main	DQ680200100 (MDA-LTE8-02-001)	WCDMA / HSPA Band II	1852.4 ~ 1907.6	-1.77
				WCDMA / HSPA Band IV	1712.4 ~ 1752.6	-0.82
				WCDMA / HSPA Band V	826.4 ~ 846.6	-6.16
				LTE Band 2	1850 ~ 1910	-1.77
				LTE Band 4	1710 ~ 1755	-0.28
				LTE Band 5	824 ~ 849	-6.01
				LTE Band 7	2502.5 ~ 2567.5	2.35
				LTE Band 12	699 ~ 716	-2.96
				LTE Band 13	777 ~ 787	-4.63
				LTE Band 17	704 ~ 716	-2.96
				LTE Band 25	1850 ~ 1915	-1.77
				LTE Band 26	824 ~ 849	-6.01
				LTE Band 26 (Part 90S)	814 ~ 824	-6.45
				LTE Band 30	2305 ~ 2315	1.19
				LTE Band 38	2572 ~ 2617.5	1.08
LTE Band 41	2496 ~ 2690	2.65				
LTE Band 66	1710 ~ 1780	-0.28				

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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	17	5	706.5 - 713.5
	3	1851.5 - 1908.5		10	709.0 - 711.0
	5	1852.5 - 1907.5	25	1.4	1850.7 - 1914.3
	10	1855.0 - 1905.0		3	1851.5 - 1913.5
	15	1857.5 - 1902.5		5	1852.5 - 1912.5
	20	1860.0 - 1900.0		10	1855.0 - 1910.0
4	1.4	1710.7 - 1754.3		15	1857.5 - 1907.5
	3	1711.5 - 1753.5		20	1860.0 - 1905.0
	5	1712.5 - 1752.5	26	1.4	824.7 - 848.3
	10	1715.0 - 1780.0		3	825.5 - 847.5
	15	1717.5 - 1747.5		5	826.5 - 846.5
20	1720.0 - 1745.0	10		829.0 - 844.0	
5	1.4	824.7 - 848.3		15	831.5 - 841.5
	3	825.5 - 847.5	26 Part90	1.4	814.7 - 823.3
	5	826.5 - 846.5		3	815.5 - 822.5
	10	829.0 - 844.0		5	816.5 - 821.5
7	5	2502.5 - 2567.5		10	819.0
	10	2505.0 - 2565.0	30	5	2307.5 - 2312.5
	15	2507.5 - 2562.5		10	2310.0
	20	2510.0 - 2560.0	38	5	2572 - 2617.5
12	1.4	699.7 - 715.3		10	2575.0 - 2615.0
	3	700.5 - 714.5		15	2577.5 - 2612.5
	5	701.5 - 713.5		20	2580.0 - 2610.0
	10	704.0 - 711.0	13	5	779.5 - 784.5
10	782	10		782	

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

	ERP / EIRP (dBm)		(W)	Type of Emission
WCDMA Band II	<b>24.24</b>	EIRP	<b>0.265</b>	<b>4M16F9W</b>
HSDPA Band II	24.18	EIRP	0.262	4M15F9W
HSUPA Band II	24.02	EIRP	0.252	4M15F9W
WCDMA Band IV	<b>24.64</b>	EIRP	<b>0.291</b>	4M13F9W
HSDPA Band IV	24.59	EIRP	0.288	4M13F9W
HSUPA Band IV	24.57	EIRP	0.286	<b>4M15F9W</b>
WCDMA Band V	<b>20.40</b>	ERP	<b>0.110</b>	<b>4M13F9W</b>
HSDPA Band V	20.38	ERP	0.109	4M13F9W
HSUPA Band V	19.84	ERP	0.096	4M13F9W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
2	1.4	QPSK	26.82	EIRP	0.481	1M09G7D
	1.4	16QAM	27.84	EIRP	0.608	1M10D7W
	3	QPSK	26.58	EIRP	0.455	2M70G7D
	3	16QAM	27.55	EIRP	0.569	2M70D7W
	5	QPSK	27.46	EIRP	0.557	4M50G7D
	5	16QAM	27.90	EIRP	0.617	4M50D7W
	10	QPSK	<b>27.72</b>	EIRP	<b>0.592</b>	9M00G7D
	10	16QAM	28.48	EIRP	0.705	8M96D7W
	15	QPSK	27.70	EIRP	0.589	13M5G7D
	15	16QAM	<b>28.62</b>	EIRP	<b>0.728</b>	13M5D7W
	20	QPSK	27.50	EIRP	0.562	18M0G7D
	20	16QAM	28.01	EIRP	0.632	18M0D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
4	1.4	QPSK	26.29	EIRP	0.426	1M09G7D
	1.4	16QAM	26.28	EIRP	0.425	1M10D7W
	3	QPSK	26.55	EIRP	0.452	2M70G7D
	3	16QAM	26.74	EIRP	0.472	2M70D7W
	5	QPSK	<b>26.74</b>	EIRP	<b>0.472</b>	4M51G7D
	5	16QAM	<b>27.14</b>	EIRP	<b>0.518</b>	4M50D7W
	10	QPSK	26.03	EIRP	0.401	9M00G7D
	10	16QAM	26.68	EIRP	0.466	8M96D7W
	15	QPSK	26.14	EIRP	0.411	13M5G7D
	15	16QAM	26.18	EIRP	0.415	13M5D7W
	20	QPSK	25.75	EIRP	0.376	18M1G7D
	20	16QAM	25.88	EIRP	0.387	18M2D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
5	1.4	QPSK	<b>23.53</b>	ERP	<b>0.225</b>	1M10G7D
	1.4	16QAM	<b>22.88</b>	ERP	<b>0.194</b>	1M10D7W
	3	QPSK	22.90	ERP	0.195	2M70G7D
	3	16QAM	22.62	ERP	0.183	2M70D7W
	5	QPSK	22.95	ERP	0.197	4M50G7D
	5	16QAM	22.72	ERP	0.187	4M50D7W
	10	QPSK	23.19	ERP	0.208	<b>9M01G7D</b>
	10	16QAM	22.49	ERP	0.177	8M97D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
7	5	QPSK	<b>19.14</b>	EIRP	<b>0.082</b>	4M50G7D
	5	16QAM	20.44	EIRP	0.111	4M50D7W
	10	QPSK	18.68	EIRP	0.074	9M00G7D
	10	16QAM	20.12	EIRP	0.103	8M97D7W
	15	QPSK	<b>19.28</b>	EIRP	<b>0.085</b>	13M5G7D
	15	16QAM	20.11	EIRP	0.103	13M5D7W
	20	QPSK	18.64	EIRP	0.073	18M0G7D
	20	16QAM	20.22	EIRP	0.105	18M0D7W

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LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)	(W)	Type of Emission	
12	1.4	QPSK	25.06	ERP	0.321	1M09G7D
	1.4	16QAM	25.00	ERP	0.316	1M10D7W
	3	QPSK	24.32	ERP	0.270	2M70G7D
	3	16QAM	24.64	ERP	0.291	2M70D7W
	5	QPSK	24.40	ERP	0.275	4M50G7D
	5	16QAM	24.76	ERP	0.299	4M50D7W
	10	QPSK	24.39	ERP	0.275	9M03G7D
	10	16QAM	24.70	ERP	0.295	8M98D7W
25	1.4	QPSK	25.92	EIRP	0.391	1M09G7D
	1.4	16QAM	25.90	EIRP	0.389	1M10D7W
	3	QPSK	25.96	EIRP	0.394	2M70G7D
	3	16QAM	26.28	EIRP	0.425	2M70D7W
	5	QPSK	25.57	ERP	0.361	4M50G7D
	5	16QAM	26.04	ERP	0.402	4M50D7W
	10	QPSK	25.90	ERP	0.389	9M00G7D
	10	16QAM	25.95	ERP	0.394	9M97D7W
	15	QPSK	25.89	ERP	0.388	13M5G7D
	15	16QAM	26.71	ERP	0.469	13M5D7W
	20	QPSK	26.23	ERP	0.420	18M0G7D
	20	16QAM	26.95	ERP	0.495	18M0D7W
26	1.4	QPSK	24.84	ERP	0.305	1M09G7D
	1.4	16QAM	24.89	ERP	0.308	1M10D7W
	3	QPSK	24.65	ERP	0.292	2M70G7D
	3	16QAM	24.78	ERP	0.301	2M70D7W
	5	QPSK	24.65	ERP	0.292	4M50G7D
	5	16QAM	24.71	ERP	0.296	4M50D7W
	10	QPSK	24.45	ERP	0.279	9M02G7D
	10	16QAM	24.70	ERP	0.295	8M98D7W
	15	QPSK	24.46	ERP	0.279	13M5G7D
	15	16QAM	24.41	ERP	0.276	13M5D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)	(W)	Type of Emission	
13	5	QPSK	25.27	ERP	0.337	4M51G7D
	5	16QAM	25.44	ERP	0.350	4M50D7W
	10	QPSK	25.12	ERP	0.325	8M96G7D
	10	16QAM	18.14	ERP	0.065	8M94D7W
17	5	QPSK	24.40	ERP	0.275	4M50G7D
	5	16QAM	24.61	ERP	0.289	4M50D7W
	10	QPSK	23.89	ERP	0.245	9M02G7D
	10	16QAM	23.96	ERP	0.249	9M01D7W
26 Part90	1.4	QPSK	25.41	ERP	0.348	1M09G7D
	1.4	16QAM	25.55	ERP	0.359	1M09D7W
	3	QPSK	25.28	ERP	0.337	2M70G7D
	3	16QAM	25.39	ERP	0.346	2M70D7W
	5	QPSK	25.32	ERP	0.340	4M50G7D
	5	16QAM	25.50	ERP	0.355	4M50D7W
	10	QPSK	24.59	ERP	0.288	9M01G7D
	10	16QAM	24.60	ERP	0.288	9M83D7W

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LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
30	5	QPSK	23.35	EIRP	0.216	4M50G7D
	5	16QAM	23.35	EIRP	0.216	4M50D7W
	10	QPSK	22.76	EIRP	0.189	8M98G7D
	10	16QAM	22.91	EIRP	0.195	8M96D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
38	5	QPSK	18.79	EIRP	0.076	4M51G7D
	5	16QAM	18.22	EIRP	0.066	4M50D7W
	10	QPSK	19.04	EIRP	0.080	8M99G7D
	10	16QAM	18.50	EIRP	0.071	8M97D7W
	15	QPSK	18.26	EIRP	0.067	13M5G7D
	15	16QAM	17.86	EIRP	0.061	13M5D7W
	20	QPSK	18.66	EIRP	0.073	18M0G7D
	20	16QAM	18.20	EIRP	0.066	18M0D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
41	5	QPSK	18.44	EIRP	0.070	4M93G7D
	5	16QAM	18.58	EIRP	0.072	5M28D7W
	10	QPSK	21.75	EIRP	0.150	8M97G7D
	10	16QAM	18.41	EIRP	0.069	8M96D7W
	15	QPSK	17.90	EIRP	0.062	13M5G7D
	15	16QAM	18.24	EIRP	0.067	13M5D7W
	20	QPSK	18.31	EIRP	0.068	18M0G7D
	20	16QAM	18.25	EIRP	0.067	18M0D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
66	1.4	QPSK	26.42	EIRP	0.439	1M09G7D
	1.4	16QAM	26.43	EIRP	0.440	1M10D7W
	3	QPSK	25.99	EIRP	0.397	2M70G7D
	3	16QAM	26.07	EIRP	0.405	2M71D7W
	5	QPSK	25.88	EIRP	0.387	4M50G7D
	5	16QAM	25.94	EIRP	0.393	4M50D7W
	10	QPSK	25.95	EIRP	0.394	9M01G7D
	10	16QAM	26.10	EIRP	0.407	8M97D7W
	15	QPSK	25.51	EIRP	0.356	13M5G7D
	15	16QAM	25.68	EIRP	0.370	13M5D7W
	20	QPSK	25.68	EIRP	0.370	18M0G7D
	20	16QAM	25.78	EIRP	0.378	18M0D7W

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### 1.3. 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.

### 1.4. 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

### 1.5. Special Accessories

No special accessories were used during testing.

### 1.6. Equipment Modifications

There were no modifications incorporated into the EUT.

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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.

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## 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.

### 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)	13.6	10	23.6
High Band (Above 1 GHz)	13.9	10	23.9

## 2.5. Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
WCDMA B2	7.7	0.746
WCDMA B4		0.735
WCDMA B5		0.706
LTE Band 2		0.755
LTE Band 4		0.886
LTE Band 5		0.734
LTE Band 7		0.862
LTE Band 12		0.704
LTE Band 13		0.749
LTE Band 17		0.700
LTE Band 25		0.902
LTE Band 26		0.715
LTE Band 26 (Part 90S)		0.723
LTE Band 30		0.852
LTE Band 38		0.867
LTE Band 41		0.872
LTE Band 66		0.896

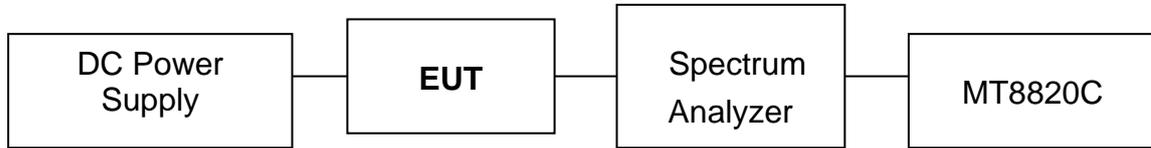
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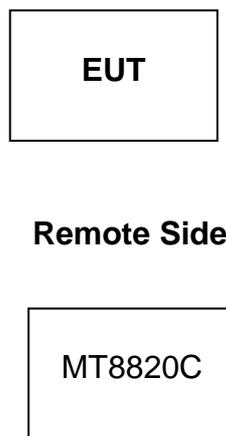
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## 2.6. Configuration of Tested System

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



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



**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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### 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(b)(10) §27.50(c)(10) §27.50(d)(4) §27.50(h)(2) §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) §27.53(c)(2) §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
§27.53(f)	Spurious emission in 1559 -1610MHz Band	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	H-plan	H-plan
WCDMA/HSPA Band IV	H-plan	H-plan
WCDMA/HSPA Band V	H-plan	H-plan
LTE Band 2	H-plan	H-plan
LTE Band 4	H-plan	H-plan
LTE Band 5	E2-plan	E2-plan
LTE Band 7	H-plan	H-plan
LTE Band 12	E2-plan	E2-plan
LTE Band 13	E2-plan	E2-plan
LTE Band 17	E2-plan	E2-plan
LTE Band 25	H-plan	H-plan
LTE Band 26	H-plan	H-plan
LTE Band 26 (Part 90S)	H-plan	H-plan
LTE Band 30	H-plan	H-plan
LTE Bnad 38	H-plan	H-plan
LTE Band 41	H-plan	H-plan
LTE Band 66	H-plan	H-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 1312 to 1513	9262, 9400, 9583 1312, 1413, 1513	WCDMA/HSPA Band II WCDMA/HSPA Band IV
FREQUENCY STABILITY	4132 to 4233 1312 to 1513 9262 to 9538	4183 1413 9400	WCDMA Band II WCDMA Band IV WCDMA Band V
OCCUPIED BANDWIDTH	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9583	WCDMA/HSPA Band II WCDMA/HSPA Band IV WCDMA/HSPA Band V
PEAK TO AVERAGE RATIO	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9583	WCDMA/HSPA Band II WCDMA/HSPA Band IV WCDMA/HSPA Band V
BAND EDGE	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4233 1312, 1513 9262, 9583	WCDMA Band II WCDMA Band IV WCDMA Band V
CONDUCTED EMISSION	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9583	WCDMA Band II WCDMA Band IV WCDMA Band V
RADIATED EMISSION	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9583	WCDMA Band II WCDMA Band IV 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 BAND-WIDTH	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 EMISSION	18675 to 19125	18675, 18900, 19125	15MHz	16QAM	1 RB, 74 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 BAND-WIDTH	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
CONDCUETED 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	19975 to 20375	19975, 20175, 20375	5MHz	16QAM	1 RB, 24 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 BAND-WIDTH	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	20470 to 20643	20470, 20525, 20643	1.4MHz	16QAM	1 RB, 0 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	20775 to 21425	20775, 21100, 21425	5MHz	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
CONDCUETED 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	16QAM	1 RB, 24 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 BAND-WIDTH	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 EMISSION	23205 to 23255	23205, 23230, 23255	5MHz	16QAM	1 RB/ 24 RB Offest

### 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 BAND-WIDTH	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
CONDCUETED 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 EMISSION	23755 to 23825	23755, 23790, 23825	5MHz	16QAM	1 RB/ 0 RB Offest

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**LTE Band 25 MODE**

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	27047 to 26683	27047, 26365, 26683	1.4MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,5 RB Offset
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offset
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offset
	26096 to 26640	26096, 26365, 26640	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offset
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offset
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,99 RB Offset
FREQUENCY STABILITY	26096 to 26640	26365	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	27047 to 26683	27047, 26365, 26683	1.4MHz	QPSK, 16QAM, 64QAM	Full RB
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM, 64QAM	Full RB
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM, 64QAM	Full RB
	26096 to 26640	26096, 26365, 26640	10MHz	QPSK, 16QAM, 64QAM	Full RB
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM, 64QAM	Full RB
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	27047 to 26683	27047, 26365, 26683	1.4MHz	64QAM	Full RB
	26055 to 26675	26055, 26365, 26675	3MHz	64QAM	Full RB
	26065 to 26665	26065, 26365, 26665	5MHz	64QAM	Full RB
	26096 to 26640	26096, 26365, 26640	10MHz	64QAM	Full RB
	26115 to 26615	26115, 26365, 26615	15MHz	64QAM	Full RB
	26140 to 26590	26140, 26365, 26590	20MHz	64QAM	Full RB
BAND EDGE	27047 to 26683	27047, 26683	1.4MHz	QPSK,	1 RB/ 0,5 RB Offset Full RB
	26055 to 26675	26055, 26675	3MHz	QPSK,	1 RB/ 0,14 RB Offset Full RB
	26065 to 26665	26065, 26665	5MHz	QPSK,	1 RB/ 0,24 RB Offset Full RB
	26096 to 26640	26096, 26640	10MHz	QPSK,	1 RB/ 0,49 RB Offset Full RB
	26115 to 26615	26115, 26615	15MHz	QPSK,	1 RB/ 0,74 RB Offset Full RB
	26140 to 26590	26140, 26590	20MHz	QPSK,	1 RB/ 0,99 RB Offset Full RB
CONDCUDED EMIS- SION	27047 to 26683	27047, 26365, 26683	1.4MHz	QPSK,	1 RB, 0 RB Offset
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK,	1 RB, 0 RB Offset
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK,	1 RB, 0 RB Offset
	26096 to 26640	26096, 26365, 26640	10MHz	QPSK,	1 RB, 0 RB Offset
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK,	1 RB, 0 RB Offset
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK,	1 RB, 0 RB Offset
RADIATED EMISSION	26140 to 26590	26140, 26590	20MHz	16QAM,	1 RB/ 0 RB Offset

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**LTE Band 26 MODE**

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
FREQUENCY STABILITY	26865 to 26965	26915	15MHz	QPSK	Full RB
OCCUPIED BAND-WIDTH	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM	Full RB
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM	Full RB
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM	Full RB
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM	Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	26797 to 27033	26797, 26915, 27033	1.4MHz	16QAM	Full RB
	26805 to 27025	26805, 26915, 27025	3MHz	16QAM	Full RB
	26815 to 27015	26815, 26915, 27015	5MHz	16QAM	Full RB
	26840 to 26990	26840, 26915, 26990	10MHz	16QAM	Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	16QAM	Full RB
BAND EDGE	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK	1 RB/ 0,5 RB Offes Full RB
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK	1 RB/ 0,14 RB Offest Full RB
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK	1 RB/ 0,74 RB Offest
CONDCUETED EMISSION	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK	1 RB, 0 RB Offest
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK	1 RB, 0 RB Offest
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK	1 RB, 0 RB Offest
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK	1 RB, 0 RB Offest
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	26697 to 26783	26697, 26740, 26783	1.4MHz	16QAM	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 BAND-WIDTH	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
BAND EDGE	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	26697 to 26783	26697, 26740, 26783	1.4MHz	16QAM	1 RB, 5 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 BAND-WIDTH	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
CONDCUETED EMISSION	27685 to 27735	27685, 27710, 27735	5MHz	QPSK	1 RB, 0 RB Offest
	27710	27710	10MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	27685 to 27735	27685, 27710, 27735	5MHz	16QAM	1 RB/ 24 RB Offest

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**LTE Band 38 MODE**

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	3775 to 38225	3775, 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	3775 to 38225	3775, 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	3775 to 38225	3775, 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	3775 to 38225	3775, 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
CONDCUDED EMISSION	3775 to 38225	3775, 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
RADIATED EMISSION	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK	1 RB, 0 RB Offest
EMISSION MASK	3775 to 38225	3775, 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

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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
CONDCUDEDTED 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	39700 to 41540	39700, 40620, 41540	10MHz	QPSK	1 RB, 49 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 BAND-WIDTH	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	18607 to 19193	18607, 18900, 19193	1.4MHz	16QAM	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 : <b>Vertical</b> )	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 : <b>Horizontal</b> )	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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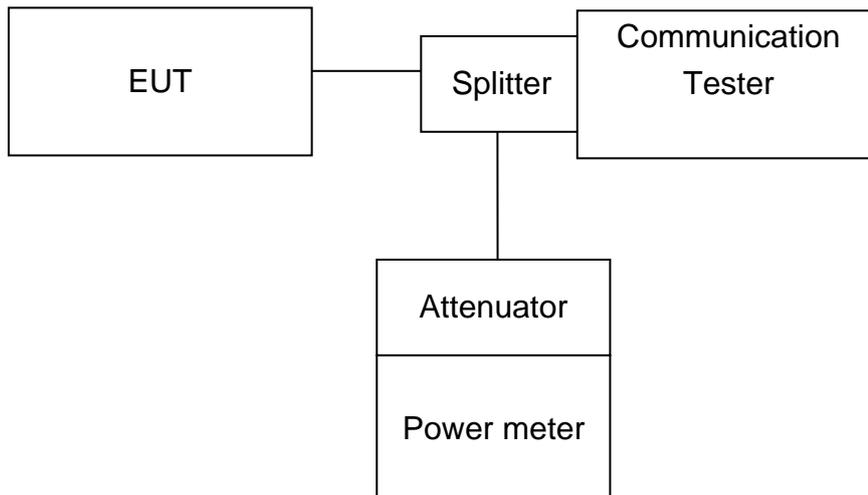
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## 6. RF CONDUCTED OUTPUT POWER MEASUREMENT

### 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.

### 6.2. Test Set-up



**Note:** Measurement setup for testing on Antenna connector

### 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

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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	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018
Communication Tester	Anritsu	MT8820C	6201107337	06/11/2017	06/10/2018
Coaxial Cable 30cm	WOKEN	00100A1F1A19 5C	RF01	12/24/2017	12/23/2018
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/13/2017	06/12/2018
DC Block	PASTERNAK	PE8210	RF29	12/24/2017	12/23/2018
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/24/2017	12/23/2018
Attenuator	WOKEN	218FS-10	RF23	12/24/2017	12/23/2018
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018

#### 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:

BNAD II	Avg. Power (dBm) Channel			BNAD IV	Avg. Power (dBm) Channel		
	9262	9400	9538		1312	1413	1513
WCDMA	23.54	23.80	23.28	WCDMA	23.98	23.69	23.75
HSDPA	20.90	21.26	20.95	HSDPA	20.66	20.53	20.67
HSUPA	21.05	21.55	20.91	HSUPA	20.71	20.83	20.98

BNAD V	Avg. Power (dBm) Channel		
	4132	4183	4233
WCDMA	23.72	23.82	23.28
HSDPA	22.98	22.73	22.42
HSUPA	22.67	22.84	22.32

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**LTE Result:**

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 18607	CH (Mid) 18900	CH (High) 19193	CH (Low) 18607	CH (Mid) 18900	CH (High) 19193
1.4	1	0	23.69	23.95	23.21	23.04	23.21	22.83
	1	5	23.66	<b>23.97</b>	23.06	23.14	<b>23.23</b>	22.45
	3	2	23.66	23.91	23.09	22.92	23.12	22.45
	6	0	22.87	22.97	22.36	22.05	22.12	21.62

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 18615	CH (Mid) 18900	CH (High) 19185	CH (Low) 18615	CH (Mid) 18900	CH (High) 19185
3	1	0	23.66	<b>24.07</b>	23.42	23.11	<b>23.34</b>	23.09
	1	14	23.63	24.00	23.02	23.16	23.26	22.65
	8	4	23.00	23.07	22.62	22.15	22.13	21.79
	15	0	22.98	23.07	22.66	22.04	22.02	21.79

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 18625	CH (Mid) 18900	CH (High) 19175	CH (Low) 18625	CH (Mid) 18900	CH (High) 19175
5	1	0	23.72	<b>24.17</b>	23.67	22.99	<b>23.52</b>	23.03
	1	24	23.73	24.10	23.01	23.00	23.27	22.31
	12	6	22.89	23.18	22.70	21.99	22.24	21.75
	25	0	22.82	23.14	22.63	21.90	22.15	21.70

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LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 18650	CH (Mid) 18900	CH (High) 19150	CH (Low) 18650	CH (Mid) 18900	CH (High) 19150
10	1	0	23.69	<b>24.15</b>	23.83	23.04	<b>23.45</b>	23.11
	1	49	23.43	24.09	23.03	22.78	23.37	22.06
	25	12	22.86	23.18	22.75	21.87	22.19	21.76
	50	0	22.79	23.15	22.58	21.87	22.23	21.70

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 18675	CH (Mid) 18900	CH (High) 19125	CH (Low) 18675	CH (Mid) 18900	CH (High) 19125
15	1	0	23.77	24.05	23.89	23.12	<b>23.35</b>	23.16
	1	74	23.65	<b>24.22</b>	23.07	23.01	<b>23.35</b>	22.33
	36	19	22.95	23.28	22.81	22.03	22.30	21.94
	75	0	22.81	23.15	22.68	21.99	22.29	21.81

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 18700	CH (Mid) 18900	CH (High) 19100	CH (Low) 18700	CH (Mid) 18900	CH (High) 19100
20	1	0	23.90	23.94	<b>24.20</b>	23.17	23.09	23.11
	1	99	23.78	24.11	23.18	23.13	<b>23.38</b>	22.56
	50	25	23.12	23.32	22.95	22.15	22.38	21.99
	100	0	22.44	22.68	22.35	21.89	22.08	21.69

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LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 19957	CH (Mid) 20175	CH (High) 20393	CH (Low) 19957	CH (Mid) 20175	CH (High) 20393
1.4	1	0	23.45	23.28	23.39	<b>23.00</b>	22.61	22.96
	1	5	23.26	23.27	23.41	22.73	22.75	22.70
	3	2	<b>23.80</b>	23.36	23.50	22.82	22.90	22.96
	6	0	22.34	22.69	22.79	21.51	21.54	21.56

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 19965	CH (Mid) 20175	CH (High) 20385	CH (Low) 19965	CH (Mid) 20175	CH (High) 20385
3	1	0	23.34	23.36	23.23	<b>23.00</b>	22.79	22.85
	1	14	23.47	23.28	<b>23.57</b>	22.73	22.49	22.63
	8	4	22.77	22.74	22.76	21.63	21.90	21.84
	15	0	22.25	22.49	22.83	21.51	21.66	21.76

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 19975	CH (Mid) 20175	CH (High) 20375	CH (Low) 19975	CH (Mid) 20175	CH (High) 20375
5	1	0	23.40	23.29	23.37	22.87	22.73	<b>22.97</b>
	1	24	23.28	23.23	<b>23.47</b>	22.89	22.53	22.58
	12	6	22.72	22.65	22.81	21.75	21.74	21.74
	25	0	22.09	22.59	22.79	21.39	21.47	21.73

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 20000	CH (Mid) 20175	CH (High) 20350	CH (Low) 20000	CH (Mid) 20175	CH (High) 20350
10	1	0	23.43	23.33	23.38	<b>22.89</b>	22.66	<b>22.89</b>
	1	49	23.28	23.32	<b>23.56</b>	22.83	22.54	22.73
	25	12	22.70	22.70	22.72	21.77	21.88	21.60
	50	0	22.11	22.43	22.83	21.46	21.70	21.64

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LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 20025	CH (Mid) 20175	CH (High) 20325	CH (Low) 20025	CH (Mid) 20175	CH (High) 20325
15	1	0	23.41	23.39	23.40	22.94	22.61	<b>22.99</b>
	1	74	23.27	23.34	<b>23.49</b>	22.76	22.71	22.79
	36	19	22.65	22.76	22.75	21.76	21.81	21.68
	75	0	22.19	22.53	22.81	21.40	21.60	21.71

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm) (dBm)					
			QPSK			16QAM		
			CH (Low) 20050	CH (Mid) 20175	CH (High) 20300	CH (Low) 20050	CH (Mid) 20175	CH (High) 20300
20	1	0	23.56	23.54	23.44	<b>23.04</b>	22.84	23.00
	1	99	23.54	23.44	<b>23.60</b>	22.97	22.78	22.84
	50	25	22.92	22.89	22.92	21.92	21.92	21.88
	100	0	22.37	22.71	22.86	21.65	21.71	21.82

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LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 20407	CH (Mid) 20525	CH (High) 20643	CH (Low) 20407	CH (Mid) 20525	CH (High) 20643
1.4	1	0	22.92	<b>23.20</b>	23.04	21.96	22.09	22.16
	1	5	22.78	22.79	22.79	21.97	<b>22.33</b>	22.06
	3	2	23.17	23.15	23.13	22.04	21.79	22.14
	6	0	22.01	22.11	22.12	21.18	20.99	21.31

LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 20415	CH (Mid) 20525	CH (High) 20635	CH (Low) 20415	CH (Mid) 20525	CH (High) 20635
3	1	0	22.79	22.98	22.90	22.27	<b>22.58</b>	22.12
	1	14	<b>23.13</b>	23.04	23.00	22.40	21.71	22.42
	8	4	22.18	21.98	22.00	21.07	21.41	21.12
	15	0	22.07	22.13	22.20	21.12	21.05	20.91

LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 20425	CH (Mid) 20525	CH (High) 20625	CH (Low) 20425	CH (Mid) 20525	CH (High) 20625
5	1	0	23.15	23.03	<b>23.22</b>	22.36	22.42	<b>22.92</b>
	1	24	23.02	23.08	22.89	22.07	22.39	22.26
	12	6	22.06	22.15	22.28	21.03	21.15	20.98
	25	0	22.13	21.74	22.02	21.01	21.09	21.60

LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 20450	CH (Mid) 20525	CH (High) 20600	CH (Low) 20450	CH (Mid) 20525	CH (High) 20600
10	1	0	23.05	22.94	<b>23.35</b>	22.36	22.54	<b>22.88</b>
	1	49	22.59	22.74	22.78	22.23	22.33	22.49
	25	12	22.12	22.05	22.29	21.06	21.06	21.26
	50	0	22.13	22.26	22.10	20.99	20.81	21.13

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LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 20775	CH (Mid) 21100	CH (High) 21425	CH (Low) 20775	CH (Mid) 21100	CH (High) 21425
5	1	0	24.07	23.79	23.49	23.32	23.07	22.64
	1	24	23.93	23.74	23.26	23.17	23.09	22.70
	12	6	23.02	22.70	22.47	22.06	21.80	21.39
	25	0	22.99	22.71	22.42	22.02	21.77	21.39

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 20800	CH (Mid) 21100	CH (High) 21400	CH (Low) 20800	CH (Mid) 21100	CH (High) 21400
10	1	0	24.11	24.06	23.84	23.67	23.27	23.21
	1	49	24.17	23.88	23.59	23.49	23.19	22.89
	25	12	23.04	22.77	22.46	22.03	21.78	21.53
	50	0	23.10	22.84	22.57	22.13	21.90	21.55

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 20825	CH (Mid) 21100	CH (High) 21375	CH (Low) 20825	CH (Mid) 21100	CH (High) 21375
15	1	0	23.98	23.76	23.60	23.31	23.02	22.78
	1	74	23.85	23.73	23.39	23.16	23.05	22.74
	36	19	22.99	22.79	22.57	22.00	21.80	21.53
	75	0	23.02	22.81	22.58	21.98	21.80	21.54

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 20850	CH (Mid) 21100	CH (High) 21350	CH (Low) 20850	CH (Mid) 21100	CH (High) 21350
20	1	0	24.18	23.61	23.78	23.50	22.90	22.94
	1	99	23.91	23.77	23.41	23.24	23.08	22.69
	50	25	22.93	22.73	22.58	21.99	21.74	21.57
	100	0	22.99	22.74	22.60	21.99	21.73	21.63

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LTE Band 12_Uplink frequency band : 699 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 23017	CH (Mid) 23095	CH (High) 23173	CH (Low) 23017	CH (Mid) 23095	CH (High) 23173
1.4	1	0	22.89	<b>23.05</b>	22.94	22.20	22.06	22.00
	1	5	<b>23.05</b>	22.87	22.89	22.17	21.91	<b>22.25</b>
	3	2	22.97	22.96	22.95	21.91	21.97	21.89
	6	0	22.02	22.02	21.77	21.06	21.12	20.89

LTE Band 12_Uplink frequency band : 699 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 23025	CH (Mid) 23095	CH (High) 23165	CH (Low) 23025	CH (Mid) 23095	CH (High) 23165
3	1	0	23.15	23.05	<b>23.16</b>	22.40	22.08	22.32
	1	14	23.05	22.84	22.98	22.13	<b>22.42</b>	22.03
	8	4	22.05	22.00	22.13	21.10	20.87	21.20
	15	0	22.14	21.96	22.00	21.12	21.06	20.91

LTE Band 12_Uplink frequency band : 699 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 23035	CH (Mid) 23095	CH (High) 23155	CH (Low) 23035	CH (Mid) 23095	CH (High) 23155
5	1	0	23.16	<b>23.18</b>	23.03	<b>22.51</b>	22.35	22.41
	1	24	<b>23.18</b>	23.02	23.17	22.16	22.08	22.09
	12	6	22.09	22.05	21.96	21.12	21.12	21.02
	25	0	22.04	22.05	22.00	20.85	20.89	21.11

LTE Band 12_Uplink frequency band : 699 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 23060	CH (Mid) 23095	CH (High) 23130	CH (Low) 23060	CH (Mid) 23095	CH (High) 23130
10	1	0	<b>23.28</b>	23.08	23.22	22.10	22.23	22.27
	1	49	23.17	23.21	23.09	22.24	<b>22.63</b>	22.32
	25	12	22.01	22.08	22.16	20.99	21.05	21.08
	50	0	22.10	22.07	21.99	20.96	21.10	21.14

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LTE Band 13_Uplink frequency band : 777 to 787 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 23205	CH (Mid) 23230	CH (High) 23255	CH (Low) 23205	CH (Mid) 23230	CH (High) 23255
5	1	0	23.36	<b>23.41</b>	23.27	22.27	22.29	<b>22.46</b>
	1	24	23.22	23.11	23.15	22.25	22.03	22.36
	12	6	22.13	22.11	22.29	21.12	21.17	21.38
	25	0	22.10	22.06	22.29	21.16	21.14	21.21

LTE Band 13_Uplink frequency band : 777 to 787 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Mid) 23230			CH (Mid) 23230		
10	1	0	<b>23.27</b>			22.26		
	1	49	23.12			<b>22.64</b>		
	25	12	22.19			21.26		
	50	0	22.38			21.27		

LTE Band 17_Uplink frequency band : 704 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 23755	CH (Mid) 23790	CH (High) 23825	CH (Low) 23755	CH (Mid) 23790	CH (High) 23825
5	1	0	23.14	<b>23.35</b>	23.14	22.09	22.06	21.97
	1	24	23.21	22.99	22.96	22.34	<b>22.40</b>	22.12
	12	6	21.97	21.93	22.01	20.97	20.92	21.01
	25	0	22.00	21.84	21.86	20.94	21.00	20.98

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LTE Band 17_Uplink frequency band : 704 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 23780	CH (Mid) 23790	CH (High) 23800	CH (Low) 23780	CH (Mid) 23790	CH (High) 23800
10	1	0	23.05	23.02	22.94	22.19	21.92	22.36
	1	49	22.88	22.88	22.77	22.35	22.10	22.06
	25	12	22.01	21.97	22.13	21.08	20.80	20.88
	50	0	22.00	22.03	22.08	20.92	21.03	21.06

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 26047	CH (Mid) 26365	CH (High) 26683	CH (Low) 26047	CH (Mid) 26365	CH (High) 26683
1.4	1	0	24.12	24.20	23.15	23.48	23.47	22.06
	1	5	24.05	24.22	23.10	23.33	23.62	22.07
	3	2	24.19	24.27	23.05	23.39	23.28	22.05
	6	0	23.21	23.22	22.13	22.39	22.27	21.03

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 26055	CH (Mid) 26365	CH (High) 26675	CH (Low) 26055	CH (Mid) 26365	CH (High) 26675
3	1	0	24.14	24.20	23.14	23.58	23.53	22.29
	1	14	24.19	24.07	23.09	23.46	23.52	22.04
	8	4	23.31	23.27	22.03	22.38	22.32	21.15
	15	0	23.28	23.26	22.02	22.29	22.30	21.06

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LTE Band 25_Uplink frequency band : 1850 to 1915 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 26065	CH (Mid) 26365	CH (High) 26665	CH (Low) 26065	CH (Mid) 26365	CH (High) 26665
5	1	0	24.21	24.29	23.14	23.59	23.58	22.40
	1	24	24.20	24.25	23.07	23.56	23.48	22.08
	12	6	23.32	23.29	22.26	22.34	22.30	21.27
	25	0	23.29	23.24	22.01	22.31	22.27	21.04

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 26090	CH (Mid) 26365	CH (High) 26640	CH (Low) 26090	CH (Mid) 26365	CH (High) 26640
10	1	0	24.12	24.19	23.12	23.62	23.55	22.27
	1	49	24.40	24.24	23.09	23.76	23.54	22.04
	25	12	23.35	23.37	22.20	22.35	22.36	21.26
	50	0	23.39	23.39	22.03	22.42	22.28	21.02

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 26115	CH (Mid) 26365	CH (High) 26615	CH (Low) 26115	CH (Mid) 26365	CH (High) 26615
15	1	0	24.16	24.18	23.64	23.57	23.54	22.95
	1	74	24.35	24.29	23.07	23.61	23.60	22.04
	36	19	23.27	23.36	22.15	22.28	22.36	21.20
	75	0	23.31	23.36	22.12	22.30	22.29	21.17

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 26140	CH (Mid) 26365	CH (High) 26590	CH (Low) 26140	CH (Mid) 26365	CH (High) 26590
20	1	0	24.36	24.34	24.30	23.64	23.66	23.62
	1	99	24.49	24.34	23.01	23.79	23.61	22.08
	50	25	23.42	23.40	22.42	22.42	22.38	21.37
	100	0	23.42	23.45	22.02	22.41	22.39	21.23

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LTE Band 26_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 26697	CH (Mid) 26865	CH (High) 27033	CH (Low) 26697	CH (Mid) 26865	CH (High) 27033
1.4	1	0	23.22	23.44	23.23	22.43	22.63	22.53
	1	5	23.13	23.63	23.05	22.29	<b>22.80</b>	22.33
	3	2	23.22	<b>23.69</b>	23.19	22.15	22.68	22.19
	6	0	22.18	22.63	22.13	21.42	21.70	21.35

LTE Band 26_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 26705	CH (Mid) 26865	CH (High) 27025	CH (Low) 26705	CH (Mid) 26865	CH (High) 27025
3	1	0	23.46	23.55	23.56	22.55	22.83	22.75
	1	14	23.07	<b>23.62</b>	23.24	22.28	<b>22.95</b>	22.34
	8	4	22.15	22.67	22.26	21.37	21.83	21.49
	15	0	22.19	22.65	22.30	21.35	21.74	21.48

LTE Band 26_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 26715	CH (Mid) 26865	CH (High) 27015	CH (Low) 26715	CH (Mid) 26865	CH (High) 27015
5	1	0	23.19	23.55	<b>23.68</b>	22.43	22.81	<b>22.98</b>
	1	24	22.54	23.65	23.13	21.92	22.91	22.51
	12	6	22.16	22.72	22.73	21.26	21.81	21.75
	25	0	22.09	22.57	22.49	21.17	21.67	21.63

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LTE Band 26_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 26750	CH (Mid) 26865	CH (High) 26990	CH (Low) 26750	CH (Mid) 26865	CH (High) 26990
10	1	0	22.90	23.38	<b>23.68</b>	22.23	22.65	<b>22.99</b>
	1	49	23.00	23.57	23.24	22.27	22.89	22.49
	25	12	22.37	22.68	22.92	21.34	21.66	21.92
	50	0	22.25	22.52	22.60	21.29	21.55	21.75

LTE Band 26_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 26775	CH (Mid) 26865	CH (High) 26965	CH (Low) 26775	CH (Mid) 26865	CH (High) 26965
15	1	0	23.05	23.52	23.39	22.35	22.85	22.78
	1	74	23.33	<b>23.62</b>	23.18	22.63	<b>22.90</b>	22.59
	36	19	22.54	22.64	22.88	21.56	21.75	21.95
	75	0	22.48	22.58	22.67	21.52	21.64	21.75

LTE Band 30_Uplink frequency band : 2305 to 2315 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 27685	CH (Mid) 27710	CH (High) 27735	CH (Low) 27685	CH (Mid) 27710	CH (High) 27735
5	1	0	24.28	24.21	24.26	<b>23.70</b>	23.57	23.64
	1	24	<b>24.31</b>	24.25	23.63	23.54	23.53	22.81
	12	6	23.30	23.35	23.30	22.37	22.40	22.26
	25	0	23.25	23.30	23.26	22.30	22.39	22.35

LTE Band 30_Uplink frequency band : 2305 to 2315 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Mid) 27710			CH (Mid) 27710		
10	1	0	<b>24.37</b>			<b>23.82</b>		
	1	49	23.63			22.84		
	25	12	23.39			22.36		
	50	0	23.42			22.38		

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Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 26697	CH (Mid) 26740	CH (High) 26783	CH (Low) 26697	CH (Mid) 26740	CH (High) 26783
1.4	1	0	23.11	23.34	23.18	22.35	22.57	22.42
	1	5	23.17	23.57	23.00	22.24	<b>22.67</b>	22.31
	3	2	23.15	<b>23.61</b>	23.16	22.08	22.53	22.11
	6	0	22.08	22.60	22.14	21.34	21.64	21.19

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 26705	CH (Mid) 26740	CH (High) 26775	CH (Low) 26705	CH (Mid) 26740	CH (High) 26775
3	1	0	23.37	23.42	23.51	22.65	22.68	22.64
	1	14	22.95	<b>23.57</b>	23.21	22.16	<b>22.87</b>	22.27
	8	4	22.11	22.61	22.24	21.27	21.76	21.39
	15	0	22.13	22.60	22.24	21.26	21.65	21.41

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 26715	CH (Mid) 26740	CH (High) 26765	CH (Low) 26715	CH (Mid) 26740	CH (High) 26765
5	1	0	23.15	23.49	23.59	22.37	22.77	22.85
	1	24	22.49	<b>23.61</b>	23.08	21.89	<b>22.86</b>	22.49
	12	6	22.11	22.64	22.67	21.21	21.75	21.67
	25	0	22.04	22.67	22.37	21.09	21.59	21.55

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Mid) 26740	CH (Mid) 26740	CH (Mid) 26740	CH (Mid) 26740	CH (Mid) 26740	CH (Mid) 26740
10	1	0	23.31	23.31	23.31	22.61	22.61	22.61
	1	49	23.31	<b>23.49</b>	23.31	22.61	<b>22.76</b>	22.61
	25	12	22.61	22.61	22.61	21.59	21.59	21.59
	50	0	22.48	22.48	22.48	21.46	21.46	21.46

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LTE Band 38_Uplink frequency band : 2570 to 2620 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 37775	CH (Mid) 38000	CH (High) 38225	CH (Low) 37775	CH (Mid) 38000	CH (High) 38225
5	1	0	23.60	23.70	<b>24.41</b>	22.80	22.82	23.60
	1	24	23.40	23.71	<b>24.41</b>	22.65	22.94	<b>23.67</b>
	12	6	22.54	22.75	23.51	21.56	21.76	22.51
	25	0	22.54	22.73	23.45	21.58	21.78	22.52

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 37800	CH (Mid) 38000	CH (High) 38200	CH (Low) 37800	CH (Mid) 38000	CH (High) 38200
10	1	0	23.69	23.81	24.36	22.95	23.09	<b>23.70</b>
	1	49	23.44	23.81	<b>24.41</b>	22.71	23.06	23.69
	25	12	22.51	22.79	23.41	21.54	21.81	22.44
	50	0	22.56	22.79	23.46	21.58	21.83	22.48

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 37825	CH (Mid) 38000	CH (High) 38175	CH (Low) 37825	CH (Mid) 38000	CH (High) 38175
15	1	0	24.03	24.12	<b>24.50</b>	23.04	23.27	<b>23.53</b>
	1	74	23.65	24.13	24.11	22.84	23.32	23.41
	36	19	22.53	22.86	23.20	21.50	21.79	22.19
	75	0	22.63	22.94	23.33	21.58	21.89	22.23

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 37850	CH (Mid) 38000	CH (High) 38150	CH (Low) 37850	CH (Mid) 38000	CH (High) 38150
20	1	0	24.21	24.30	<b>24.57</b>	23.35	23.49	<b>23.83</b>
	1	99	23.64	24.23	24.54	22.88	23.42	23.76
	50	25	22.54	22.87	23.29	21.57	21.87	22.25
	100	0	22.61	22.99	23.39	21.72	21.92	22.38

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LTE Band 41_Uplink frequency band : 2496 to 2690 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 39675	CH (Mid) 40620	CH (High) 41565	CH (Low) 39675	CH (Mid) 40620	CH (High) 41565
5	1	0	<b>24.16</b>	23.79	24.15	<b>23.34</b>	23.03	23.32
	1	24	23.98	23.64	23.98	23.31	22.98	23.22
	12	6	23.10	22.76	23.09	22.14	21.83	22.18
	25	0	23.05	22.75	23.11	22.15	21.81	22.19

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 39700	CH (Mid) 40620	CH (High) 41540	CH (Low) 39700	CH (Mid) 40620	CH (High) 41540
10	1	0	24.10	23.76	<b>24.23</b>	23.37	23.10	<b>23.48</b>
	1	49	24.06	23.73	24.07	23.24	23.05	23.26
	25	12	23.17	22.77	23.10	22.22	21.81	22.15
	50	0	23.08	22.80	23.12	22.14	21.85	22.19

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 39725	CH (Mid) 40620	CH (High) 41515	CH (Low) 39725	CH (Mid) 40620	CH (High) 41515
15	1	0	24.04	23.74	<b>24.11</b>	23.14	23.01	<b>23.28</b>
	1	74	23.84	23.71	23.91	23.02	22.90	23.05
	36	19	22.96	22.74	23.10	21.98	21.74	22.10
	75	0	22.96	22.74	23.13	22.00	21.70	22.07

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 39750	CH (Mid) 40620	CH (High) 41490	CH (Low) 39750	CH (Mid) 40620	CH (High) 41490
20	1	0	24.00	23.72	<b>24.21</b>	23.27	23.02	<b>23.45</b>
	1	99	24.03	23.78	23.80	23.15	22.97	23.06
	50	25	23.07	22.81	23.12	22.04	21.76	22.17
	100	0	23.04	22.73	23.08	21.94	21.74	22.14

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LTE Band 66_Uplink frequency band : 1709 to 1780 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 1E+05	CH (Mid) 1E+05	CH (High) 1E+05	CH (Low) 1E+05	CH (Mid) 1E+05	CH (High) 1E+05
1.4	1	0	23.58	23.75	23.10	22.72	23.10	22.52
	1	5	23.66	<b>23.83</b>	23.08	22.99	<b>23.16</b>	22.40
	3	2	23.68	23.82	23.16	22.75	23.05	22.38
	6	0	22.75	23.00	22.28	21.86	22.08	21.37

LTE Band 66_Uplink frequency band : 1709 to 1780 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 1E+05	CH (Mid) 1E+05	CH (High) 1E+05	CH (Low) 1E+05	CH (Mid) 1E+05	CH (High) 1E+05
3	1	0	23.47	23.76	23.26	22.79	23.15	22.53
	1	14	23.70	<b>23.90</b>	23.21	23.02	<b>23.29</b>	22.52
	8	4	22.84	23.08	22.37	21.92	22.11	21.47
	15	0	22.74	23.04	22.29	21.89	21.98	21.45

LTE Band 66_Uplink frequency band : 1709 to 1780 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 1E+05	CH (Mid) 1E+05	CH (High) 1E+05	CH (Low) 1E+05	CH (Mid) 1E+05	CH (High) 1E+05
5	1	0	23.40	23.64	23.20	22.64	22.95	22.39
	1	24	23.79	<b>23.94</b>	23.26	23.16	<b>23.32</b>	22.61
	12	6	22.81	23.03	22.42	21.83	22.10	21.43
	25	0	22.71	22.99	22.33	21.82	22.07	21.38

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LTE Band 66_Uplink frequency band : 1709 to 1780 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 1E+05	CH (Mid) 1E+05	CH (High) 1E+05	CH (Low) 1E+05	CH (Mid) 1E+05	CH (High) 1E+05
10	1	0	23.39	23.48	23.35	22.68	22.79	22.67
	1	49	23.70	<b>24.03</b>	23.31	23.04	<b>23.37</b>	22.67
	25	12	22.77	23.02	22.64	21.86	22.07	21.82
	50	0	22.54	22.96	22.59	21.77	22.02	21.77

LTE Band 66_Uplink frequency band : 1709 to 1780 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 1E+05	CH (Mid) 1E+05	CH (High) 1E+05	CH (Low) 1E+05	CH (Mid) 1E+05	CH (High) 1E+05
15	1	0	23.45	23.42	23.64	22.68	22.83	22.87
	1	74	23.41	<b>23.72</b>	23.30	22.76	<b>22.96</b>	22.67
	36	19	22.73	23.02	22.53	21.78	22.07	21.59
	75	0	22.57	22.98	22.47	21.62	22.03	21.51

LTE Band 66_Uplink frequency band : 1709 to 1780 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 1E+05	CH (Mid) 1E+05	CH (High) 1E+05	CH (Low) 1E+05	CH (Mid) 1E+05	CH (High) 1E+05
20	1	0	23.60	23.48	23.55	23.05	22.83	23.06
	1	99	23.58	23.73	23.21	22.89	22.99	22.56
	50	25	23.10	22.99	22.69	22.08	21.99	21.74
	100	0	23.06	23.01	22.42	22.05	22.00	21.50

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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:  $\beta$  values for transmitter characteristics tests with HS-DPCCH(FOR HSDPA)

Sub-test	$\beta_c$	$\beta_d$	$\beta_d$ (SF)	$\beta_c/\beta_d$	$\beta_{HS}$ (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

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

Mode	Sub test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		9262	9400	9538		
HSDPA II	1	20.9	21.26	20.95	20.3dBm – 25.7dBm	Pass
	2	21.41	21.74	21.09	20.3dBm – 25.7dBm	Pass
	3	20.7	21.22	20.44	19.8dBm – 25.7dBm	Pass
	4	20.68	21.19	20.41	19.8dBm – 25.7dBm	Pass

Mode	Sub test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		1312	1413	1513		
HSDPA IV	1	20.66	20.53	20.67	20.3dBm – 25.7dBm	Pass
	2	21.17	21.01	20.72	20.3dBm – 25.7dBm	Pass
	3	20.3	20.31	20.13	19.8dBm – 25.7dBm	Pass
	4	20.27	20.29	20.11	19.8dBm – 25.7dBm	Pass

Mode	Sub test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		4132	4183	4233		
HSDPA V	1	22.98	22.73	22.42	20.3dBm – 25.7dBm	Pass
	2	22.85	22.91	22.35	20.3dBm – 25.7dBm	Pass
	3	22.4	22.29	21.9	19.8dBm – 25.7dBm	Pass
	4	22.45	22.26	21.92	19.8dBm – 25.7dBm	Pass

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## 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:  $\beta$  values for transmitter characteristics tests with HS-DPCCH and E-DCH(FOR HSUPA)

Sub-test	$\beta_c$	$\beta_d$	$\beta_d$ (SF)	$\beta_c/\beta_d$	$\beta_{HS}$	$\beta_{ec}$	$\beta_{ed}$	$\beta_{ed}$ (SF)	$\beta_{ed}$ (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	9400	9538		
HSUPA II	1	21.05	21.55	20.91	18.8dBm – 25.7dBm	Pass
	2	20.11	20.35	20.26	16.8dBm – 25.7dBm	Pass
	3	21.02	21.54	20.9	17.8dBm – 25.7dBm	Pass
	4	20.56	20.87	20.68	16.8dBm – 25.7dBm	Pass
	5	21.04	21.6	20.8	18.8dBm – 25.7dBm	Pass

Mode	Sub test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		1312	1413	1513		
HSDPA IV	1	20.71	20.83	20.98	20.3dBm – 25.7dBm	Pass
	2	19.93	19.81	20.03	20.3dBm – 25.7dBm	Pass
	3	20.58	20.73	20.72	19.8dBm – 25.7dBm	Pass
	4	20.47	20.27	20.48	19.8dBm – 25.7dBm	Pass
	5	20.97	20.68	20.75	19.8dBm – 25.7dBm	Pass

Mode	Sub test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		4132	4183	4233		
HSUPA V	1	22.67	22.84	22.32	18.8dBm – 25.7dBm	Pass
	2	22.3	22.16	21.96	16.8dBm – 25.7dBm	Pass
	3	22.69	22.77	22.27	17.8dBm – 25.7dBm	Pass
	4	22.89	22.74	22.44	16.8dBm – 25.7dBm	Pass
	5	22.78	22.89	22.34	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 power” then record the read. It is -52.3dBm. The power variation can be 0.1dB step by setting.

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## 7. EFFECTIVE RADIATED POWER AND EQUIVALENT ISOTROPIC RADIATED POWER MEASUREMENT

### 7.1. Standard Applicable

According to FCC §2.1046

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

FCC 24.232(c) 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.

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

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

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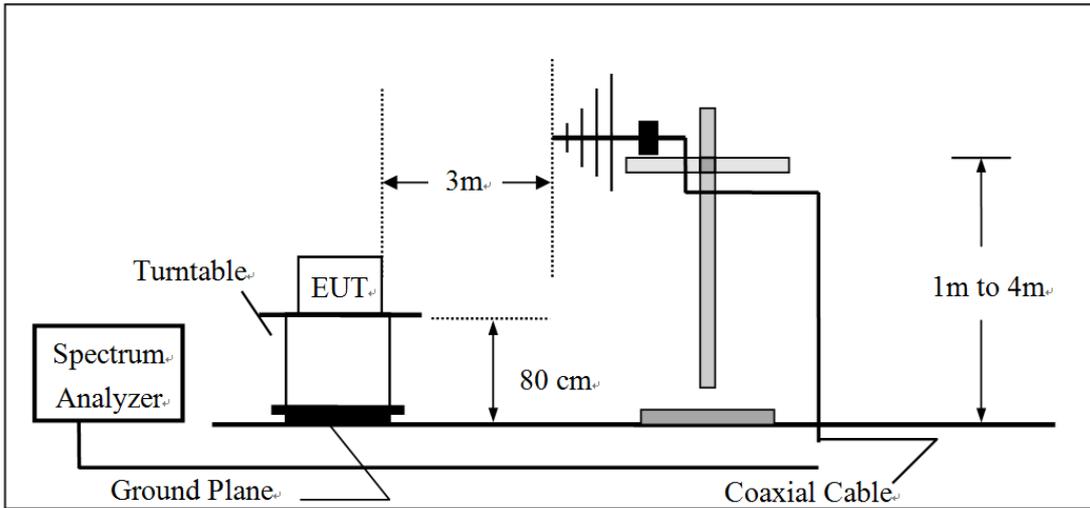
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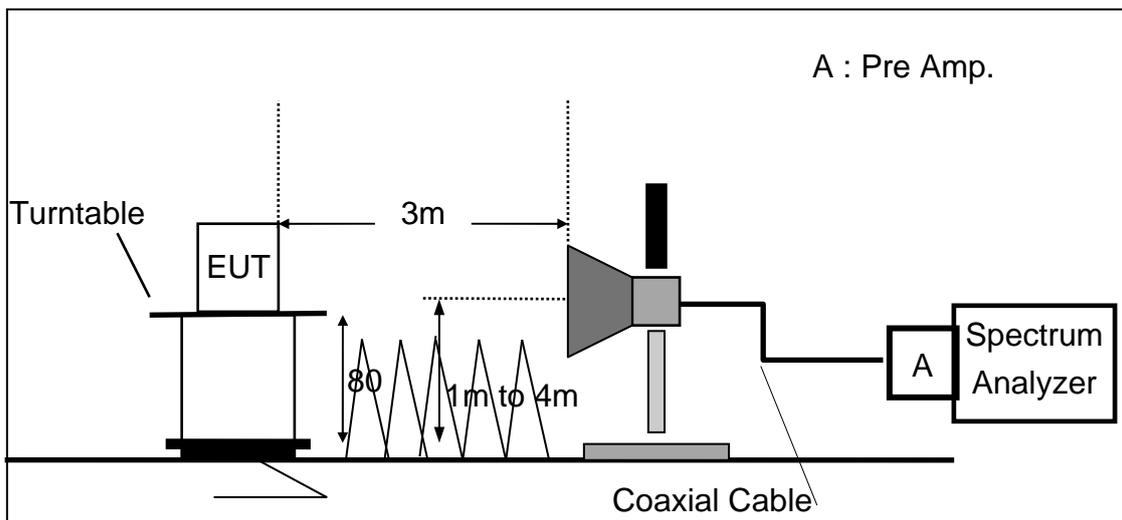
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## 7.2. Test SET-UP

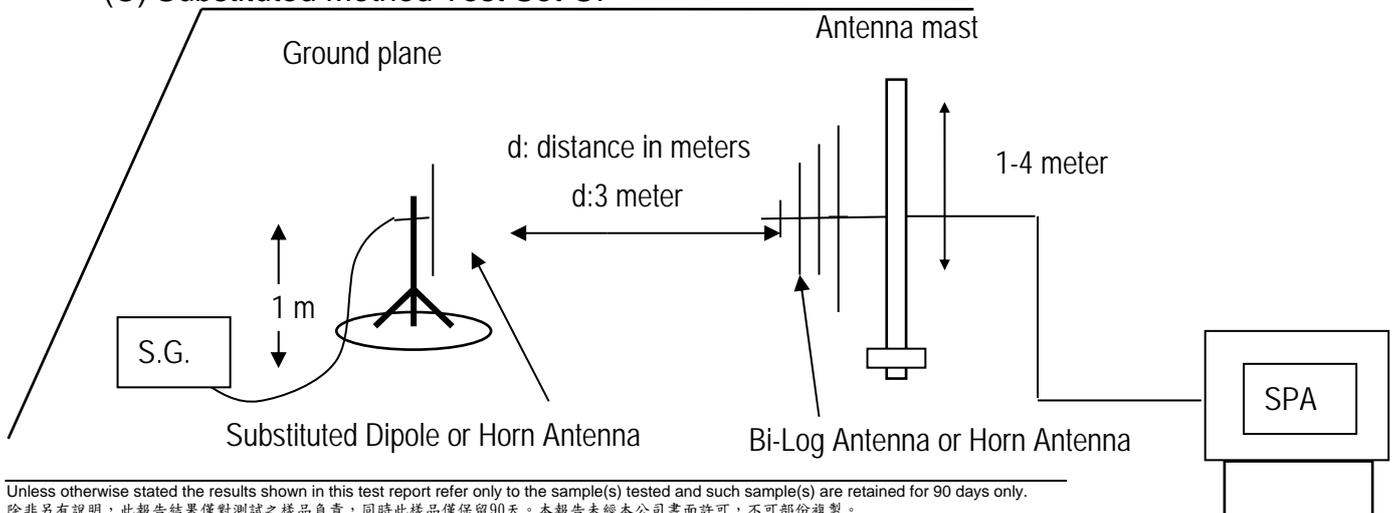
### (A) Radiated Power Test Set-Up, Frequency Below 1000MHz



### (B) Radiated Power Test Set-UP Frequency Over 1 GHz



### (C) Substituted Method Test Set-UP



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### 7.3. Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 971168 D01
2. The EUT was placed on a non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.
3. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated
4. The testing follows the Measurement Procedure of FCC KDB 971168 D01
5. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step b. Record the power level of S.G.
6.  $ERP = S.G. \text{ output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$
7.  $EIRP = S.G. \text{ output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$
8. Spectrum setting:
  - (1) Detector = Peak, marker the highest value of the detector by maximum hold, set RBW wide enough to capture the entire signal of emission, and  $VBW \geq 3 \times RBW$ .
  - (2) KDB 971168 D01 is adopted, and the procedure as lists under item 4, Measurement of the Average Power over the Fundamental Signal Bandwidth, is followed to set correspondingly for the acquisition of proper measurement data.  
Set frequency = nominal signal center frequency;  
Set span = 2 X occupied BW;  
Set RBW  $\approx$  1~5% of the span, not to exceed 1 MHz  
Set VBW = 3 x RBW;  
Select average power (RMS) detector  
Set sweep time and number of measurement points to achieve a minimum of 1 millisecond/pt integration time (ex. Point = 601points, then sweep time =  $601 \times 10^{-3} = 6s$ .

Activate trace averaging routine over a minimum of 10 sweeps;

Activate marker/span pair and set span = signal or channel bandwidth;

Activate the band/interval power marker function;

Record the band power level;

Record adjusted value as the average signal power level. Then activate the occupied bandwidth measurement function.

The proper adjustment due to limitation of spectrum capability is given compensated to spectrum with conversion factor of  $10 \times \log(TBW/RBW)$ , where TBW is the transmission of UE exceeding the maximum BW UE can extends, and RBW is the resolution BW in UE.

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#### 7.4. Measurement Equipment Used

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESU 40	100363	04/18/2017	04/17/2018
Broadband Antenna	TESEQ	CBL 6112D	35240	11/03/2017	11/02/2018
Broadband Antenna	TESEQ	CBL 6112D	35243	11/09/2017	11/08/2018
Horn Antenna	ETS-Lindgren	3117	00143272	12/15/2017	12/16/2018
Horn Antenna	ETS-Lindgren	3117	143279	11/14/2017	11/13/2018
Horn Antenna	Schwarzbeck	BBHA9170	184	12/11/2017	12/10/2018
Horn Antenna	Schwarzbeck	BBHA9170	185	08/01/2017	07/31/2018
Pre Amplifier	EMC Instruments	EMC330	980096	12/24/2017	12/23/2018
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/24/2017	12/23/2018
Pre Amplifier	R&S	SCU-18	10204	12/24/2017	12/23/2018
Pre Amplifier	R&S	SCU-26	100780	12/24/2017	12/23/2018
Pre Amplifier	EMC Instruments	EMC184045B	980135	12/24/2017	12/23/2018
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/24/2017	12/23/2018
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/24/2017	12/23/2018
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/24/2017	12/23/2018
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/24/2017	12/23/2018
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/24/2017	12/23/2018
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/24/2017	12/23/2018
Attenuator	WOKEN	218FS-10	RF27	12/24/2017	12/23/2018
Communication Tester	Anritsu	MT8820C	6201107337	06/11/2017	06/10/2018
Site NSA	SGS	966 Chamber C	SAC-C	03/02/2017	03/01/2018
Site VSWR	SGS	966 Chamber C	SAC-C	03/02/2017	03/01/2018
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2017	05/03/2018
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

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**7.5. Measurement Result: (Peak) –using option of peak measurement**

Part24								
EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
WCDMA Band II	1852.4	9262	V	19.47	9.58	-6.86	22.19	33.01
			H	21.52	9.58	-6.86	24.24	33.01
	1880.0	9400	V	21.27	9.70	-6.91	24.06	33.01
			H	21.12	9.69	-6.91	23.90	33.01
	1907.6	9538	V	18.07	9.81	-6.96	20.92	33.01
			H	19.37	9.81	-6.96	22.22	33.01
Remark : The RBW,VBW of SPA for frequency RBW= 5MHz , VBW= 8MHz								
Part24								
EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
HSDPA Band II	1852.4	9262	V	19.49	9.58	-6.86	22.21	33.01
			H	21.46	9.58	-6.86	24.18	33.01
	1880.0	9400	V	21.28	9.69	-6.91	24.06	33.01
			H	21.03	9.70	-6.91	23.82	33.01
	1907.6	9538	V	17.91	9.81	-6.96	20.76	33.01
			H	19.31	9.81	-6.96	22.16	33.01
Remark : The RBW,VBW of SPA for frequency RBW= 5MHz , VBW= 8MHz								
Part24								
EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
HSUPA Band II	1852.4	9262	V	20.36	9.58	-6.86	23.08	33.01
			H	21.30	9.58	-6.86	24.02	33.01
	1880.0	9400	V	21.10	9.70	-6.91	23.89	33.01
			H	20.98	9.70	-6.91	23.77	33.01
	1907.6	9538	V	17.77	9.81	-6.96	20.62	33.01
			H	19.17	9.81	-6.96	22.02	33.01
Remark : The RBW,VBW of SPA for frequency RBW= 5MHz , VBW= 8MHz								

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Part27								
EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
WCDMA Band IV	1712.4	1312	V	20.69	8.99	-6.58	23.10	30.00
			H	22.23	8.99	-6.58	24.64	30.00
	1732.6	1413	V	19.46	9.08	-6.63	21.91	30.00
			H	21.64	9.08	-6.63	24.09	30.00
	1752.6	1513	V	20.14	9.16	-6.66	22.64	30.00
			H	21.53	9.16	-6.66	24.03	30.00
Remark : The RBW,VBW of SPA for frequency RBW= 5MHz , VBW= 8MHz								
Part27								
EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
HSDPA Band IV	1712.4	1312	V	20.65	8.99	-6.58	23.06	30.00
			H	22.18	8.99	-6.58	24.59	30.00
	1732.6	1413	V	19.51	9.08	-6.63	21.96	30.00
			H	21.82	9.08	-6.63	24.27	30.00
	1752.6	1513	V	20.12	9.16	-6.66	22.62	30.00
			H	21.73	9.16	-6.67	24.22	30.00
Remark : The RBW,VBW of SPA for frequency RBW= 5MHz , VBW= 8MHz								
Part27								
EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
HSUPA Band IV	1712.4	1312	V	20.79	8.99	-6.58	23.20	30.00
			H	22.16	8.99	-6.58	24.57	30.00
	1732.6	1413	V	19.39	9.08	-6.63	21.84	30.00
			H	21.82	9.08	-6.63	24.27	30.00
	1752.6	1513	V	20.15	9.16	-6.66	22.65	30.00
			H	21.63	9.16	-6.66	24.13	30.00
Remark : The RBW,VBW of SPA for frequency RBW= 5MHz , VBW= 8MHz								

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Part22								
EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
WCDMA Band V	826.4	4132	V	19.45	5.13	-4.18	20.40	38.45
			H	15.76	5.13	-4.18	16.71	38.45
	836.6	4183	V	19.16	5.10	-4.23	20.03	38.45
			H	15.04	5.10	-4.22	15.92	38.45
	846.6	4233	V	17.50	5.06	-4.26	18.30	38.45
			H	13.12	5.06	-4.26	13.92	38.45
<b>Remark :</b> The RBW,VBW of SPA for frequency RBW=300 KHz, VBW=1MHz								
Part22								
EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
HSDPA Band V	826.4	4132	V	19.43	5.13	-4.18	20.38	38.45
			H	15.81	5.13	-4.18	16.76	38.45
	836.6	4183	V	19.08	5.10	-4.23	19.95	38.45
			H	15.02	5.10	-4.23	15.89	38.45
	846.6	4233	V	17.59	5.06	-4.26	18.39	38.45
			H	13.19	5.06	-4.26	13.99	38.45
<b>Remark :</b> The RBW,VBW of SPA for frequency RBW=300 KHz, VBW=1MHz								
Part22								
EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
HSUPA Band V	826.4	4132	V	17.18	5.13	-4.18	18.13	38.45
			H	15.70	5.13	-4.18	16.65	38.45
	836.6	4183	V	18.97	5.10	-4.23	19.84	38.45
			H	15.00	5.10	-4.22	15.88	38.45
	846.6	4233	V	17.49	5.06	-4.26	18.29	38.45
			H	13.17	5.06	-4.26	13.97	38.45
<b>Remark :</b> The RBW,VBW of SPA for frequency RBW=300 KHz, VBW=1MHz								

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 2 BW: 1.4M QPSK RB: 1,0	1850.7	18607	V	9.79	9.57	-6.86	12.50	33.01
			H	24.11	9.57	-6.86	<b>26.82</b>	33.01
	1880.0	18900	V	8.65	9.69	-6.91	11.43	33.01
			H	9.79	9.57	-6.86	12.50	33.01
	1909.3	19193	V	1.06	9.82	-6.97	3.91	33.01
			H	22.97	9.82	-6.97	25.82	33.01
LTE BAND 2 BW: 1.4M QPSK RB: 1,5	1850.7	18607	V	10.93	9.57	-6.86	13.64	33.01
			H	24.03	9.58	-6.86	26.75	33.01
	1880.0	18900	V	7.95	9.70	-6.91	10.74	33.01
			H	23.88	9.70	-6.91	26.67	33.01
	1909.3	19193	V	1.23	9.82	-6.97	4.08	33.01
			H	22.48	9.82	-6.97	25.33	33.01
LTE BAND 2 BW: 1.4M 16QAM RB: 1,0	1850.7	18607	V	11.08	9.58	-6.86	13.80	33.01
			H	24.25	9.57	-6.86	26.96	33.01
	1880.0	18900	V	8.22	9.70	-6.91	11.01	33.01
			H	24.97	9.69	-6.91	27.75	33.01
	1909.3	19193	V	1.71	9.82	-6.97	4.56	33.01
			H	22.89	9.82	-6.97	25.74	33.01
LTE BAND 2 BW: 1.4M 16QAM RB: 1,5	1850.7	18607	V	10.97	9.57	-6.86	13.68	33.01
			H	24.15	9.58	-6.86	26.87	33.01
	1880.0	18900	V	9.54	9.69	-6.91	12.32	33.01
			H	25.05	9.70	-6.91	<b>27.84</b>	33.01
	1909.3	19193	V	1.75	9.82	-6.97	4.60	33.01
			H	22.59	9.82	-6.97	25.44	33.01
<b>Remark :</b>			( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz					

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 2 BW: 3M QPSK RB: 1,0	1851.5	18615	V	9.32	9.57	-6.86	12.03	33.01
			H	22.66	9.57	-6.86	25.37	33.01
	1880.0	18900	V	8.42	9.69	-6.91	11.20	33.01
			H	23.80	9.69	-6.91	<b>26.58</b>	33.01
	1908.5	19185	V	1.06	9.81	-6.96	3.91	33.01
			H	22.87	9.81	-6.96	25.72	33.01
LTE BAND 2 BW: 3M QPSK RB: 1,14	1851.5	18615	V	10.07	9.58	-6.86	12.79	33.01
			H	23.63	9.58	-6.86	26.35	33.01
	1880.0	18900	V	7.77	9.70	-6.91	10.56	33.01
			H	23.59	9.70	-6.91	26.38	33.01
	1908.5	19185	V	1.13	9.82	-6.97	3.98	33.01
			H	22.11	9.82	-6.97	24.96	33.01
LTE BAND 2 BW: 3M 16QAM RB: 1,0	1851.5	18615	V	10.83	9.57	-6.86	13.54	33.01
			H	23.72	9.58	-6.86	26.44	33.01
	1880.0	18900	V	9.35	9.69	-6.91	12.13	33.01
			H	23.75	9.70	-6.91	26.54	33.01
	1908.5	19185	V	0.33	9.81	-6.96	3.18	33.01
			H	22.18	9.82	-6.97	25.03	33.01
LTE BAND 2 BW: 3M 16QAM RB: 1,14	1851.5	18615	V	11.23	9.58	-6.86	13.95	33.01
			H	23.95	9.57	-6.85	26.67	33.01
	1880.0	18900	V	8.92	9.70	-6.92	11.70	33.01
			H	24.77	9.69	-6.91	<b>27.55</b>	33.01
	1908.5	19185	V	1.20	9.82	-6.97	4.05	33.01
			H	23.36	9.81	-6.96	26.21	33.01
<b>Remark :</b>			( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz					

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 2 BW: 5M QPSK RB: 1,0	1852.5	18625	V	21.13	9.57	-6.86	23.84	33.01
			H	24.75	9.57	-6.86	<b>27.46</b>	33.01
	1880.0	18900	V	21.44	9.69	-6.91	24.22	33.01
			H	24.07	9.69	-6.91	26.85	33.01
	1907.5	19175	V	21.14	9.80	-6.96	23.98	33.01
			H	23.74	9.80	-6.96	26.58	33.01
LTE BAND 2 BW: 5M QPSK RB: 1,24	1852.5	18625	V	21.25	9.59	-6.86	23.98	33.01
			H	24.09	9.59	-6.86	26.82	33.01
	1880.0	18900	V	21.13	9.71	-6.92	23.92	33.01
			H	23.80	9.71	-6.92	26.59	33.01
	1907.5	19175	V	20.29	9.82	-6.97	23.14	33.01
			H	23.10	9.82	-6.97	25.95	33.01
LTE BAND 2 BW: 5M 16QAM RB: 1,0	1852.5	18625	V	21.55	9.57	-6.86	24.26	33.01
			H	25.14	9.57	-6.86	27.85	33.01
	1880.0	18900	V	22.52	9.69	-6.91	25.30	33.01
			H	25.06	9.69	-6.91	27.84	33.01
	1907.5	19175	V	21.43	9.80	-6.96	24.27	33.01
			H	24.06	9.80	-6.96	26.90	33.01
LTE BAND 2 BW: 5M 16QAM RB: 1,24	1852.5	18625	V	22.41	9.59	-6.86	25.14	33.01
			H	25.12	9.59	-6.86	27.85	33.01
	1880.0	18900	V	22.24	9.70	-6.92	25.02	33.01
			H	25.12	9.70	-6.92	<b>27.90</b>	33.01
	1907.5	19175	V	20.29	9.82	-6.97	23.14	33.01
			H	23.16	9.82	-6.97	26.01	33.01

Remark : (1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 2 BW: 10M QPSK RB: 1,0	1855.0	18650	V	11.86	9.57	-6.86	14.57	33.01
			H	25.01	9.57	-6.86	<b>27.72</b>	33.01
	1880.0	18900	V	21.79	9.68	-6.90	24.57	33.01
			H	24.66	9.68	-6.90	27.44	33.01
	1905.0	19150	V	20.95	9.78	-6.95	23.78	33.01
			H	24.07	9.78	-6.95	26.90	33.01
LTE BAND 2 BW: 10M QPSK RB: 1,49	1855.0	18650	V	21.23	9.61	-6.87	23.97	33.01
			H	24.63	9.61	-6.87	27.37	33.01
	1880.0	18900	V	21.06	9.71	-6.92	23.85	33.01
			H	24.13	9.72	-6.92	26.93	33.01
	1905.0	19150	V	20.07	9.82	-6.97	22.92	33.01
			H	23.09	9.82	-6.97	25.94	33.01
LTE BAND 2 BW: 10M 16QAM RB: 1,0	1855.0	18650	V	21.41	9.57	-6.86	24.12	33.01
			H	25.39	9.57	-6.86	28.10	33.01
	1880.0	18900	V	22.26	9.68	-6.90	25.04	33.01
			H	25.05	9.68	-6.90	27.83	33.01
	1905.0	19150	V	21.12	9.78	-6.95	23.95	33.01
			H	24.22	9.78	-6.95	27.05	33.01
LTE BAND 2 BW: 10M 16QAM RB: 1,49	1855.0	18650	V	22.42	9.61	-6.87	25.16	33.01
			H	25.74	9.61	-6.87	<b>28.48</b>	33.01
	1880.0	18900	V	22.27	9.72	-6.92	25.07	33.01
			H	25.33	9.71	-6.92	28.12	33.01
	1905.0	19150	V	20.16	9.82	-6.97	23.01	33.01
			H	23.42	9.82	-6.97	26.27	33.01

Remark : (1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 2 BW: 15M QPSK RB: 1,0	1857.5	18675	V	21.26	9.58	-6.86	23.98	33.01
			H	24.99	9.57	-6.86	<b>27.70</b>	33.01
	1880.0	18900	V	22.33	9.67	-6.90	25.10	33.01
			H	24.74	9.67	-6.90	27.51	33.01
	1902.5	19125	V	19.85	9.76	-6.94	22.67	33.01
			H	23.34	9.76	-6.94	26.16	33.01
LTE BAND 2 BW: 15M QPSK RB: 1,74	1857.5	18675	V	21.45	9.57	-6.86	24.16	33.01
			H	24.66	9.63	-6.88	27.41	33.01
	1880.0	18900	V	21.48	9.72	-6.92	24.28	33.01
			H	24.02	9.72	-6.92	26.82	33.01
	1902.5	19125	V	20.35	9.82	-6.97	23.20	33.01
			H	23.38	9.82	-6.97	26.23	33.01
LTE BAND 2 BW: 15M 16QAM RB: 1,0	1857.5	18675	V	21.71	9.57	-6.86	24.42	33.01
			H	25.35	9.57	-6.86	28.06	33.01
	1880.0	18900	V	22.47	9.67	-6.90	25.24	33.01
			H	24.79	9.67	-6.90	27.56	33.01
	1902.5	19125	V	19.96	9.76	-6.94	22.78	33.01
			H	23.40	9.76	-6.94	26.22	33.01
LTE BAND 2 BW: 15M 16QAM RB: 1,74	1857.5	18675	V	22.53	9.63	-6.88	25.28	33.01
			H	25.87	9.63	-6.88	<b>28.62</b>	33.01
	1880.0	18900	V	22.44	9.73	-6.93	25.24	33.01
			H	25.08	9.73	-6.93	27.88	33.01
	1902.5	19125	V	20.49	9.82	-6.97	23.34	33.01
			H	23.42	9.82	-6.97	26.27	33.01

Remark : (1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 2 BW: 20M QPSK RB: 1,0	1860.0	18700	V	21.55	9.58	-6.86	24.27	33.01
			H	24.79	9.57	-6.86	<b>27.50</b>	33.01
	1880.0	18900	V	22.09	9.66	-6.89	24.86	33.01
			H	24.56	9.66	-6.90	27.32	33.01
	1900.0	19100	V	20.84	9.74	-6.93	23.65	33.01
			H	23.98	9.74	-6.93	26.79	33.01
LTE BAND 2 BW: 20M QPSK RB: 1,99	1860.0	18700	V	22.22	9.65	-6.89	24.98	33.01
			H	24.67	9.65	-6.89	27.43	33.01
	1880.0	18900	V	20.86	9.73	-6.93	23.66	33.01
			H	23.74	9.73	-6.93	26.54	33.01
	1900.0	19100	V	20.48	9.82	-6.97	23.33	33.01
			H	23.43	9.82	-6.97	26.28	33.01
LTE BAND 2 BW: 20M 16QAM RB: 1,0	1860.0	18700	V	21.57	9.58	-6.86	24.29	33.01
			H	25.27	9.58	-6.86	27.99	33.01
	1880.0	18900	V	22.25	9.66	-6.89	25.02	33.01
			H	24.83	9.66	-6.89	27.60	33.01
	1900.0	19100	V	21.39	9.74	-6.93	24.20	33.01
			H	24.62	9.74	-6.93	27.43	33.01
LTE BAND 2 BW: 15M 16QAM RB: 1,99	1860.0	18700	V	22.42	9.65	-6.89	25.18	33.01
			H	25.25	9.65	-6.89	<b>28.01</b>	33.01
	1880.0	18900	V	21.87	9.73	-6.93	24.67	33.01
			H	24.78	9.74	-6.93	27.59	33.01
	1900.0	19100	V	20.45	9.82	-6.97	23.30	33.01
			H	23.47	9.82	-6.97	26.32	33.01

Remark : (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 4 BW: 1.4M QPSK RB: 1,0	1710.7	19957	V	21.32	8.98	-6.58	23.72	30.00
			H	23.56	8.98	-6.58	25.96	30.00
	1732.5	20175	V	18.29	9.07	-6.62	20.74	30.00
			H	21.50	9.07	-6.62	23.95	30.00
	1754.3	20393	V	21.89	9.16	-6.67	24.38	30.00
			H	23.17	9.17	-6.67	25.67	30.00
LTE BAND 4 BW: 1.4M QPSK RB: 1,5	1710.7	19957	V	21.69	8.99	-6.58	24.10	30.00
			H	23.88	8.99	-6.58	<b>26.29</b>	30.00
	1732.5	20175	V	18.10	9.08	-6.63	20.55	30.00
			H	21.24	9.08	-6.63	23.69	30.00
	1754.3	20393	V	22.02	9.17	-6.67	24.52	30.00
			H	23.03	9.17	-6.67	25.53	30.00
LTE BAND 4 BW: 1.4M 16QAM RB: 1,0	1710.7	19957	V	21.34	8.98	-6.58	23.74	30.00
			H	23.58	8.98	-6.58	25.98	30.00
	1732.5	20175	V	18.54	9.08	-6.62	21.00	30.00
			H	21.84	9.07	-6.62	24.29	30.00
	1754.3	20393	V	22.11	9.17	-6.67	24.61	30.00
			H	23.27	9.17	-6.67	25.77	30.00
LTE BAND 4 BW: 1.4M 16QAM RB: 1,5	1710.7	19957	V	21.71	8.99	-6.58	24.12	30.00
			H	23.87	8.99	-6.58	<b>26.28</b>	30.00
	1732.5	20175	V	18.39	9.08	-6.63	20.84	30.00
			H	21.64	9.08	-6.63	24.09	30.00
	1754.3	20393	V	21.97	9.17	-6.67	24.47	30.00
			H	23.08	9.17	-6.67	25.58	30.00
<b>Remark :</b>			( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz					

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 4 BW: 3M QPSK RB: 1,0	1711.5	19965	V	21.15	8.98	-6.58	23.55	30.00
			H	23.26	8.98	-6.58	25.66	30.00
	1732.5	20175	V	19.42	9.07	-6.62	21.87	30.00
			H	21.63	9.07	-6.62	24.08	30.00
	1753.5	20385	V	20.98	9.16	-6.66	23.48	30.00
			H	23.09	9.16	-6.66	25.59	30.00
LTE BAND 4 BW: 3M QPSK RB: 1,14	1711.5	19965	V	21.53	8.99	-6.59	23.93	30.00
			H	24.14	9.00	-6.59	26.55	30.00
	1732.5	20175	V	18.48	9.08	-6.63	20.93	30.00
			H	21.44	9.08	-6.63	23.89	30.00
	1753.5	20385	V	20.96	9.16	-6.67	23.45	30.00
			H	22.90	9.17	-6.67	25.40	30.00
LTE BAND 4 BW: 3M 16QAM RB: 1,0	1711.5	19965	V	21.07	8.98	-6.58	23.47	30.00
			H	23.46	8.98	-6.58	25.86	30.00
	1732.5	20175	V	18.95	9.07	-6.62	21.40	30.00
			H	21.90	9.07	-6.62	24.35	30.00
	1753.5	20385	V	21.60	9.16	-6.66	24.10	30.00
			H	23.72	9.16	-6.66	26.22	30.00
LTE BAND 4 BW: 3M 16QAM RB: 1,14	1711.5	19965	V	21.88	8.99	-6.59	24.28	30.00
			H	24.34	8.99	-6.59	26.74	30.00
	1732.5	20175	V	18.93	9.08	-6.63	21.38	30.00
			H	21.86	9.08	-6.63	24.31	30.00
	1753.5	20385	V	21.18	9.17	-6.67	23.68	30.00
			H	23.23	9.17	-6.67	25.73	30.00

Remark : (1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 4 BW: 5M QPSK RB: 1,0	1712.5	19975	V	22.18	8.98	-6.58	24.58	30.00
			H	24.34	8.98	-6.58	26.74	30.00
	1732.5	20175	V	18.16	9.07	-6.62	20.61	30.00
			H	21.30	9.07	-6.62	23.75	30.00
	1752.5	20375	V	21.31	9.15	-6.66	23.80	30.00
			H	23.24	9.15	-6.66	25.73	30.00
LTE BAND 4 BW: 5M QPSK RB: 1,24	1712.5	19975	V	22.27	9.00	-6.59	24.68	30.00
			H	24.15	9.00	-6.59	26.56	30.00
	1732.5	20175	V	18.29	9.08	-6.63	20.74	30.00
			H	21.30	9.08	-6.63	23.75	30.00
	1752.5	20375	V	21.54	9.17	-6.67	24.04	30.00
			H	22.84	9.17	-6.67	25.34	30.00
LTE BAND 4 BW: 5M 16QAM RB: 1,0	1712.5	19975	V	22.39	8.98	-6.58	24.79	30.00
			H	24.57	8.98	-6.58	26.97	30.00
	1732.5	20175	V	18.32	9.07	-6.62	20.77	30.00
			H	21.61	9.07	-6.62	24.06	30.00
	1752.5	20375	V	22.25	9.15	-6.66	24.74	30.00
			H	24.10	9.15	-6.66	26.59	30.00
LTE BAND 4 BW: 5M 16QAM RB: 1,24	1712.5	19975	V	22.63	9.00	-6.59	25.04	30.00
			H	24.73	9.00	-6.59	27.14	30.00
	1732.5	20175	V	18.63	9.09	-6.63	21.09	30.00
			H	21.71	9.09	-6.63	24.17	30.00
	1752.5	20375	V	22.02	9.17	-6.67	24.52	30.00
			H	23.35	9.17	-6.67	25.85	30.00

Remark : (1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 4 BW: 10M QPSK RB: 1,0	1715.0	20000	V	20.92	8.99	-6.58	23.33	30.00
			H	23.12	8.98	-6.58	25.52	30.00
	1732.0	20175	V	19.27	9.06	-6.62	21.71	30.00
			H	21.72	9.06	-6.62	24.16	30.00
	1750.0	20350	V	21.22	9.13	-6.65	23.70	30.00
			H	23.36	9.13	-6.65	25.84	30.00
LTE BAND 4 BW: 10M QPSK RB: 1,49	1715.0	20000	V	21.10	9.02	-6.60	23.52	30.00
			H	23.61	9.02	-6.60	<b>26.03</b>	30.00
	1732.0	20175	V	18.78	9.09	-6.63	21.24	30.00
			H	21.58	9.09	-6.63	24.04	30.00
	1750.0	20350	V	21.49	9.17	-6.67	23.99	30.00
			H	22.78	9.17	-6.67	25.28	30.00
LTE BAND 4 BW: 10M 16QAM RB: 1,0	1715.0	20000	V	21.35	8.99	-6.58	23.76	30.00
			H	23.45	8.98	-6.58	25.85	30.00
	1732.0	20175	V	18.36	9.06	-6.62	20.80	30.00
			H	21.83	9.06	-6.62	24.27	30.00
	1750.0	20350	V	21.91	9.13	-6.65	24.39	30.00
			H	24.20	9.13	-6.65	<b>26.68</b>	30.00
LTE BAND 4 BW: 10M 16QAM RB: 1,49	1715.0	20000	V	21.12	9.02	-6.60	23.54	30.00
			H	23.61	9.02	-6.60	26.03	30.00
	1732.0	20175	V	19.15	9.09	-6.63	21.61	30.00
			H	22.00	9.10	-6.63	24.47	30.00
	1750.0	20350	V	21.63	9.17	-6.67	24.13	30.00
			H	23.05	9.17	-6.67	25.55	30.00
<b>Remark :</b>			( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz					

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 4 BW: 15M QPSK RB: 1,0	1717.5	20025	V	21.48	8.99	-6.58	23.89	30.00
			H	23.73	8.99	-6.58	26.14	30.00
	1732.5	20175	V	19.16	9.05	-6.61	21.60	30.00
			H	22.20	9.05	-6.61	24.64	30.00
	1747.5	20325	V	20.89	9.11	-6.64	23.36	30.00
			H	22.77	9.11	-6.64	25.24	30.00
LTE BAND 4 BW: 15M QPSK RB: 1,74	1717.5	20025	V	19.77	9.04	-6.61	22.20	30.00
			H	23.09	9.04	-6.61	25.52	30.00
	1732.5	20175	V	20.02	9.10	-6.64	22.48	30.00
			H	22.52	9.10	-6.64	24.98	30.00
	1747.5	20325	V	21.12	9.17	-6.67	23.62	30.00
			H	22.46	9.17	-6.67	24.96	30.00
LTE BAND 4 BW: 15M 16QAM RB: 1,0	1717.5	20025	V	21.59	8.99	-6.58	24.00	30.00
			H	23.77	8.99	-6.58	26.18	30.00
	1732.5	20175	V	19.27	9.05	-6.61	21.71	30.00
			H	22.54	9.05	-6.61	24.98	30.00
	1747.5	20325	V	20.68	9.11	-6.64	23.15	30.00
			H	23.23	9.11	-6.64	25.70	30.00
LTE BAND 4 BW: 15M 16QAM RB: 1,74	1717.5	20025	V	19.86	9.04	-6.61	22.29	30.00
			H	23.04	9.04	-6.61	25.47	30.00
	1732.5	20175	V	20.16	9.10	-6.64	22.62	30.00
			H	22.64	9.10	-6.64	25.10	30.00
	1747.5	20325	V	21.81	9.17	-6.67	24.31	30.00
			H	23.16	9.17	-6.67	25.66	30.00
<b>Remark :</b>			( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz					

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 4 BW: 20M QPSK RB: 1,0	1720.0	20050	V	18.45	9.09	-6.63	20.91	30.00
			H	21.07	9.09	-6.63	23.53	30.00
	1732.5	20175	V	21.37	9.04	-6.61	23.80	30.00
			H	23.12	9.04	-6.61	25.55	30.00
	1745.0	20300	V	18.70	9.09	-6.63	21.16	30.00
			H	21.60	9.09	-6.63	24.06	30.00
LTE BAND 4 BW: 20M QPSK RB: 1,99	1720.0	20050	V	21.22	9.17	-6.67	23.72	30.00
			H	22.54	9.17	-6.67	25.04	30.00
	1732.5	20175	V	20.78	9.11	-6.64	23.25	30.00
			H	23.28	9.11	-6.64	25.75	30.00
	1745.0	20300	V	21.22	9.17	-6.67	23.72	30.00
			H	22.39	9.17	-6.67	24.89	30.00
LTE BAND 4 BW: 20M 16QAM RB: 1,0	1720.0	20050	V	19.11	9.09	-6.63	21.57	30.00
			H	21.92	9.09	-6.63	24.38	30.00
	1732.5	20175	V	19.99	9.04	-6.61	22.42	30.00
			H	23.15	9.04	-6.61	25.58	30.00
	1745.0	20300	V	19.37	9.09	-6.63	21.83	30.00
			H	22.17	9.09	-6.63	24.63	30.00
LTE BAND 4 BW: 20M 16QAM RB: 1,99	1720.0	20050	V	21.79	9.17	-6.67	24.29	30.00
			H	22.97	9.17	-6.67	25.47	30.00
	1732.5	20175	V	20.89	9.11	-6.64	23.36	30.00
			H	23.41	9.11	-6.64	25.88	30.00
	1745.0	20300	V	21.91	9.17	-6.67	24.41	30.00
			H	23.05	9.17	-6.67	25.55	30.00

Remark : (1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 5 BW: 1.4M QPSK RB: 1,0	824.7	20407	V	16.89	5.14	-4.18	17.85	38.45
			H	22.58	5.13	-4.18	<b>23.53</b>	38.45
	836.5	20525	V	17.34	5.10	-4.23	18.21	38.45
			H	21.96	5.10	-4.22	22.84	38.45
	848.3	20643	V	16.04	5.06	-4.26	16.84	38.45
			H	20.81	5.06	-4.26	21.61	38.45
LTE BAND 5 BW: 1.4M QPSK RB: 1,5	824.7	20407	V	16.48	5.14	-4.18	17.44	38.45
			H	21.68	5.13	-4.18	22.63	38.45
	836.5	20525	V	17.22	5.10	-4.23	18.09	38.45
			H	21.93	5.09	-4.23	22.79	38.45
	848.3	20643	V	15.26	5.05	-4.27	16.04	38.45
			H	20.57	5.06	-4.26	21.37	38.45
LTE BAND 5 BW: 1.4M 16QAM RB: 1,0	824.7	20407	V	16.47	5.14	-4.18	17.43	38.45
			H	21.92	5.14	-4.18	<b>22.88</b>	38.45
	836.5	20525	V	17.20	5.10	-4.22	18.08	38.45
			H	21.95	5.10	-4.22	22.83	38.45
	848.3	20643	V	15.74	5.06	-4.26	16.54	38.45
			H	20.87	5.06	-4.26	21.67	38.45
LTE BAND 5 BW: 1.4M 16QAM RB: 1,5	824.7	20407	V	16.32	5.13	-4.18	17.27	38.45
			H	21.68	5.13	-4.18	22.63	38.45
	836.5	20525	V	17.32	5.09	-4.23	18.18	38.45
			H	22.00	5.09	-4.23	22.86	38.45
	848.3	20643	V	15.31	5.05	-4.27	16.09	38.45
			H	20.68	5.05	-4.27	21.46	38.45

Remark : ( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 5 BW: 3M QPSK RB: 1,0	825.5	20415	V	16.31	5.14	-4.18	17.27	38.45
			H	21.47	5.14	-4.18	22.43	38.45
	836.5	20525	V	17.27	5.10	-4.22	18.15	38.45
			H	22.02	5.10	-4.22	<b>22.90</b>	38.45
	847.5	20635	V	16.64	5.06	-4.26	17.44	38.45
			H	21.33	5.06	-4.26	22.13	38.45
LTE BAND 5 BW: 3M QPSK RB: 1,14	825.5	20415	V	16.09	5.13	-4.19	17.03	38.45
			H	21.20	5.13	-4.19	22.14	38.45
	836.5	20525	V	16.99	5.09	-4.23	17.85	38.45
			H	21.56	5.09	-4.23	22.42	38.45
	847.5	20635	V	15.31	5.06	-4.27	16.10	38.45
			H	20.59	5.06	-4.26	21.39	38.45
LTE BAND 5 BW: 3M 16QAM RB: 1,0	825.5	20415	V	16.30	5.14	-4.18	17.26	38.45
			H	21.52	5.14	-4.18	22.48	38.45
	836.5	20525	V	17.03	5.10	-4.22	17.91	38.45
			H	21.74	5.10	-4.22	<b>22.62</b>	38.45
	847.5	20635	V	16.08	5.06	-4.26	16.88	38.45
			H	21.12	5.07	-4.26	21.93	38.45
LTE BAND 5 BW: 3M 16QAM RB: 1,14	825.5	20415	V	16.09	5.13	-4.19	17.03	38.45
			H	21.22	5.13	-4.19	22.16	38.45
	836.5	20525	V	17.07	5.09	-4.23	17.93	38.45
			H	21.68	5.09	-4.23	22.54	38.45
	847.5	20635	V	15.36	5.06	-4.27	16.15	38.45
			H	20.73	5.06	-4.27	21.52	38.45
<b>Remark :</b> ( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz								

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 5 BW: 5M QPSK RB: 1,0	826.5	20425	V	16.26	5.14	-4.18	17.22	38.45
			H	21.49	5.14	-4.18	22.45	38.45
	836.5	20525	V	17.30	5.11	-4.22	18.19	38.45
			H	22.07	5.10	-4.22	<b>22.95</b>	38.45
	846.5	20625	V	16.61	5.07	-4.25	17.43	38.45
			H	21.31	5.07	-4.25	22.13	38.45
LTE BAND 5 BW: 5M QPSK RB: 1,24	826.5	20425	V	16.11	5.12	-4.19	17.04	38.45
			H	21.18	5.13	-4.19	22.12	38.45
	836.5	20525	V	16.98	5.09	-4.23	17.84	38.45
			H	21.46	5.09	-4.23	22.32	38.45
	846.5	20625	V	15.46	5.06	-4.26	16.26	38.45
			H	20.73	5.05	-4.27	21.51	38.45
LTE BAND 5 BW: 5M 16QAM RB: 1,0	826.5	20425	V	16.32	5.14	-4.18	17.28	38.45
			H	21.49	5.14	-4.18	22.45	38.45
	836.5	20525	V	17.33	5.11	-4.22	18.22	38.45
			H	21.82	5.11	-4.21	<b>22.72</b>	38.45
	846.5	20625	V	16.47	5.08	-4.25	17.30	38.45
			H	21.39	5.07	-4.25	22.21	38.45
LTE BAND 5 BW: 5M 16QAM RB: 1,24	826.5	20425	V	16.09	5.12	-4.20	17.01	38.45
			H	21.16	5.12	-4.19	22.09	38.45
	836.5	20525	V	17.11	5.09	-4.23	17.97	38.45
			H	21.54	5.09	-4.23	22.40	38.45
	846.5	20625	V	16.31	5.07	-4.25	17.13	38.45
			H	20.75	5.06	-4.26	21.55	38.45

Remark : ( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 5 BW: 10M QPSK RB: 1,0	829.0	20450	V	16.18	5.14	-4.18	17.14	38.45
			H	21.29	5.14	-4.18	22.25	38.45
	836.5	20525	V	16.75	5.11	-4.21	17.65	38.45
			H	22.29	5.11	-4.21	<b>23.19</b>	38.45
	844.0	20600	V	16.79	5.09	-4.24	17.64	38.45
			H	20.66	5.09	-4.24	21.51	38.45
LTE BAND 5 BW: 10M QPSK RB: 1,49	829.0	20450	V	17.70	5.11	-4.21	18.60	38.45
			H	21.86	5.11	-4.21	22.76	38.45
	836.5	20525	V	16.65	5.08	-4.24	17.49	38.45
			H	21.02	5.08	-4.24	21.86	38.45
	844.0	20600	V	15.35	5.06	-4.26	16.15	38.45
			H	20.56	5.06	-4.27	21.35	38.45
LTE BAND 5 BW: 10M 16QAM RB: 1,0	829.0	20450	V	16.16	5.14	-4.18	17.12	38.45
			H	21.21	5.14	-4.18	22.17	38.45
	836.5	20525	V	16.73	5.11	-4.21	17.63	38.45
			H	21.59	5.11	-4.21	<b>22.49</b>	38.45
	844.0	20600	V	16.59	5.09	-4.24	17.44	38.45
			H	21.06	5.09	-4.24	21.91	38.45
LTE BAND 5 BW: 10M 16QAM RB: 1,49	829.0	20450	V	17.12	5.11	-4.21	18.02	38.45
			H	21.59	5.11	-4.21	<b>22.49</b>	38.45
	836.5	20525	V	16.52	5.08	-4.24	17.36	38.45
			H	20.96	5.08	-4.24	21.80	38.45
	844.0	20600	V	15.45	5.06	-4.26	16.25	38.45
			H	20.59	5.06	-4.26	21.39	38.45
<b>Remark :</b>			( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz					

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 7 BW: 5M QPSK RB: 1,0	2502.5	20775	V	16.12	10.70	-7.83	18.99	33.01
			H	12.40	10.70	-7.83	15.27	33.01
	2535.0	21100	V	16.11	10.74	-7.87	18.98	33.01
			H	13.18	10.74	-7.87	16.05	33.01
	2567.5	21425	V	14.26	10.78	-7.90	17.14	33.01
			H	11.53	10.78	-7.90	14.41	33.01
LTE BAND 7 BW: 5M QPSK RB: 1,24	2502.5	20775	V	16.26	10.71	-7.83	<b>19.14</b>	33.01
			H	12.59	10.71	-7.83	15.47	33.01
	2535.0	21100	V	14.79	10.74	-7.87	17.66	33.01
			H	11.71	10.74	-7.87	14.58	33.01
	2567.5	21425	V	14.68	10.78	-7.91	17.55	33.01
			H	11.39	10.78	-7.91	14.26	33.01
LTE BAND 7 BW: 5M 16QAM RB: 1,0	2502.5	20775	V	17.57	10.70	-7.83	<b>20.44</b>	33.01
			H	13.82	10.70	-7.83	16.69	33.01
	2535.0	21100	V	15.74	10.74	-7.87	18.61	33.01
			H	13.30	10.74	-7.87	16.17	33.01
	2567.5	21425	V	14.32	10.78	-7.90	17.20	33.01
			H	11.53	10.78	-7.90	14.41	33.01
LTE BAND 7 BW: 5M 16QAM RB: 1,24	2502.5	20775	V	16.37	10.71	-7.84	19.24	33.01
			H	12.90	10.71	-7.84	15.77	33.01
	2535.0	21100	V	16.37	10.74	-7.87	19.24	33.01
			H	13.34	10.74	-7.87	16.21	33.01
	2567.5	21425	V	14.78	10.78	-7.91	17.65	33.01
			H	11.54	10.78	-7.91	14.41	33.01

Remark : ( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 7 BW: 10M QPSK RB: 1,0	2505.0	20800	V	15.81	10.70	-7.83	<b>18.68</b>	33.01
			H	12.38	10.70	-7.83	15.25	33.01
	2535.0	21100	V	15.42	10.74	-7.86	18.30	33.01
			H	12.57	10.74	-7.86	15.45	33.01
	2565.0	21400	V	14.73	10.77	-7.90	17.60	33.01
			H	12.07	10.77	-7.90	14.94	33.01
LTE BAND 7 BW: 10M QPSK RB: 1,49	2505.0	20800	V	15.72	10.71	-7.84	18.59	33.01
			H	12.63	10.71	-7.84	15.50	33.01
	2535.0	21100	V	14.94	10.75	-7.87	17.82	33.01
			H	11.23	10.75	-7.87	14.11	33.01
	2565.0	21400	V	14.49	10.78	-7.91	17.36	33.01
			H	11.69	10.78	-7.91	14.56	33.01
LTE BAND 7 BW: 10M 16QAM RB: 1,0	2505.0	20800	V	17.17	10.70	-7.83	20.04	33.01
			H	14.00	10.70	-7.83	16.87	33.01
	2535.0	21100	V	15.49	10.74	-7.86	18.37	33.01
			H	12.70	10.74	-7.86	15.58	33.01
	2565.0	21400	V	14.76	10.77	-7.90	17.63	33.01
			H	12.07	10.77	-7.90	14.94	33.01
LTE BAND 7 BW: 10M 16QAM RB: 1,49	2505.0	20800	V	17.25	10.71	-7.84	<b>20.12</b>	33.01
			H	14.15	10.71	-7.84	17.02	33.01
	2535.0	21100	V	16.59	10.75	-7.87	19.47	33.01
			H	12.97	10.75	-7.87	15.85	33.01
	2565.0	21400	V	14.64	10.78	-7.91	17.51	33.01
			H	11.95	10.78	-7.91	14.82	33.01
<b>Remark :</b>			( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz					

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 7 BW: 15M QPSK RB: 1,0	2507.5	20825	V	15.90	10.70	-7.83	18.77	33.01
			H	12.01	10.70	-7.83	14.88	33.01
	2535.0	21100	V	15.14	10.73	-7.86	18.01	33.01
			H	11.39	10.73	-7.86	14.26	33.01
	2562.5	21375	V	15.44	10.77	-7.89	18.32	33.01
			H	11.23	10.77	-7.89	14.11	33.01
LTE BAND 7 BW: 15M QPSK RB: 1,74	2507.5	20825	V	16.41	10.72	-7.85	<b>19.28</b>	33.01
			H	12.05	10.72	-7.85	14.92	33.01
	2535.0	21100	V	15.08	10.75	-7.88	17.95	33.01
			H	11.94	10.75	-7.88	14.81	33.01
	2562.5	21375	V	14.78	10.78	-7.91	17.65	33.01
			H	11.53	10.78	-7.91	14.40	33.01
LTE BAND 7 BW: 15M 16QAM RB: 1,0	2507.5	20825	V	16.15	10.70	-7.83	19.02	33.01
			H	12.26	10.70	-7.83	15.13	33.01
	2535.0	21100	V	16.62	10.73	-7.86	19.49	33.01
			H	12.87	10.73	-7.86	15.74	33.01
	2562.5	21375	V	16.78	10.77	-7.89	19.66	33.01
			H	12.75	10.77	-7.89	15.63	33.01
LTE BAND 7 BW: 15M 16QAM RB: 1,74	2507.5	20825	V	17.24	10.72	-7.85	<b>20.11</b>	33.01
			H	13.09	10.72	-7.85	15.96	33.01
	2535.0	21100	V	15.36	10.75	-7.88	18.23	33.01
			H	12.18	10.75	-7.88	15.05	33.01
	2562.5	21375	V	14.93	10.78	-7.91	17.80	33.01
			H	11.74	10.78	-7.91	14.61	33.01

Remark : ( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 7 BW: 20M QPSK RB: 1,0	2510.0	20850	V	15.77	10.70	-7.83	<b>18.64</b>	33.01
			H	12.10	10.70	-7.83	14.97	33.01
	2535.0	21100	V	14.49	10.73	-7.86	17.36	33.01
			H	11.25	10.73	-7.86	14.12	33.01
	2560.0	21350	V	14.82	10.76	-7.89	17.69	33.01
			H	10.88	10.76	-7.89	13.75	33.01
LTE BAND 7 BW: 20M QPSK RB: 1,99	2510.0	20850	V	15.02	10.72	-7.85	17.89	33.01
			H	11.66	10.72	-7.85	14.53	33.01
	2535.0	21100	V	15.29	10.75	-7.88	18.16	33.01
			H	10.63	10.75	-7.88	13.50	33.01
	2560.0	21350	V	14.52	10.78	-7.91	17.39	33.01
			H	11.79	10.78	-7.91	14.66	33.01
LTE BAND 7 BW: 20M 16QAM RB: 1,0	2510.0	20850	V	17.35	10.70	-7.83	<b>20.22</b>	33.01
			H	13.47	10.70	-7.83	16.34	33.01
	2535.0	21100	V	15.92	10.73	-7.86	18.79	33.01
			H	12.68	10.73	-7.86	15.55	33.01
	2560.0	21350	V	16.34	10.76	-7.89	19.21	33.01
			H	12.33	10.76	-7.89	15.20	33.01
LTE BAND 7 BW: 20M 16QAM RB: 1,99	2510.0	20850	V	15.73	10.72	-7.85	18.60	33.01
			H	12.33	10.72	-7.85	15.20	33.01
	2535.0	21100	V	16.98	10.75	-7.88	19.85	33.01
			H	12.38	10.75	-7.88	15.25	33.01
	2560.0	21350	V	14.57	10.78	-7.91	17.44	33.01
			H	11.92	10.78	-7.91	14.79	33.01

Remark : ( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 12 BW: 1.4M QPSK RB: 1,0	699.7	23017	V	17.07	5.05	-3.82	18.30	34.77
			H	22.78	5.06	-3.82	24.02	34.77
	707.5	23095	V	17.33	5.07	-3.84	18.56	34.77
			H	23.41	5.07	-3.84	24.64	34.77
	715.3	23173	V	16.74	5.09	-3.86	17.97	34.77
			H	22.89	5.09	-3.87	24.11	34.77
LTE BAND 12 BW: 1.4M QPSK RB: 1,5	699.7	23017	V	16.92	5.06	-3.82	18.16	34.77
			H	22.48	5.06	-3.82	23.72	34.77
	707.5	23095	V	17.55	5.07	-3.84	18.78	34.77
			H	23.83	5.08	-3.85	<b>25.06</b>	34.77
	715.3	23173	V	16.47	5.09	-3.87	17.69	34.77
			H	22.68	5.09	-3.87	23.90	34.77
LTE BAND 12 BW: 1.4M 16QAM RB: 1,0	699.7	23017	V	17.34	5.06	-3.82	18.58	34.77
			H	22.97	5.05	-3.82	24.20	34.77
	707.5	23095	V	17.43	5.07	-3.84	18.66	34.77
			H	23.57	5.07	-3.84	24.80	34.77
	715.3	23173	V	16.77	5.09	-3.86	18.00	34.77
			H	22.94	5.09	-3.87	24.16	34.77
LTE BAND 12 BW: 1.4M 16QAM RB: 1,5	699.7	23017	V	17.11	5.06	-3.82	18.35	34.77
			H	22.77	5.06	-3.82	24.01	34.77
	707.5	23095	V	17.83	5.08	-3.84	19.07	34.77
			H	23.77	5.08	-3.85	<b>25.00</b>	34.77
	715.3	23173	V	16.55	5.09	-3.87	17.77	34.77
			H	22.72	5.09	-3.87	23.94	34.77

Remark :

(1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 12 BW: 3M QPSK RB: 1,0	700.5	23025	V	16.24	5.05	-3.82	17.47	34.77
			H	22.16	5.05	-3.82	23.39	34.77
	707.5	23095	V	16.77	5.07	-3.84	18.00	34.77
			H	22.98	5.07	-3.84	24.21	34.77
	714.5	23165	V	16.63	5.09	-3.86	17.86	34.77
			H	22.56	5.09	-3.86	23.79	34.77
LTE BAND 12 BW: 3M QPSK RB: 1,14	700.5	23025	V	16.18	5.06	-3.82	17.42	34.77
			H	22.40	5.06	-3.83	23.63	34.77
	707.5	23095	V	17.04	5.08	-3.85	18.27	34.77
			H	23.09	5.08	-3.85	<b>24.32</b>	34.77
	714.5	23165	V	16.58	5.09	-3.87	17.80	34.77
			H	22.51	5.09	-3.86	23.74	34.77
LTE BAND 12 BW: 3M 16QAM RB: 1,0	700.5	23025	V	16.27	5.05	-3.82	17.50	34.77
			H	22.24	5.06	-3.82	23.48	34.77
	707.5	23095	V	16.92	5.07	-3.84	18.15	34.77
			H	23.16	5.07	-3.84	24.39	34.77
	714.5	23165	V	16.59	5.09	-3.86	17.82	34.77
			H	22.75	5.09	-3.86	23.98	34.77
LTE BAND 12 BW: 3M 16QAM RB: 1,14	700.5	23025	V	16.10	5.06	-3.82	17.34	34.77
			H	22.19	5.06	-3.83	23.42	34.77
	707.5	23095	V	17.07	5.08	-3.84	18.31	34.77
			H	23.40	5.08	-3.84	<b>24.64</b>	34.77
	714.5	23165	V	16.62	5.09	-3.87	17.84	34.77
			H	22.53	5.09	-3.86	23.76	34.77

**Remark :**

(1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 12 BW: 5M QPSK RB: 1,0	701.5	23035	V	16.24	5.05	-3.82	17.47	34.77
			H	22.15	5.05	-3.82	23.38	34.77
	707.5	23095	V	16.62	5.07	-3.83	17.86	34.77
			H	22.69	5.07	-3.84	23.92	34.77
	713.5	23155	V	16.69	5.08	-3.85	17.92	34.77
			H	22.88	5.08	-3.85	24.11	34.77
LTE BAND 12 BW: 5M QPSK RB: 1,24	701.5	23035	V	16.26	5.07	-3.83	17.50	34.77
			H	22.40	5.07	-3.83	23.64	34.77
	707.5	23095	V	16.90	5.08	-3.85	18.13	34.77
			H	23.17	5.08	-3.85	<b>24.40</b>	34.77
	713.5	23155	V	16.60	5.09	-3.87	17.82	34.77
			H	22.73	5.09	-3.87	23.95	34.77
LTE BAND 12 BW: 5M 16QAM RB: 1,0	701.5	23035	V	16.30	5.05	-3.82	17.53	34.77
			H	22.20	5.05	-3.82	23.43	34.77
	707.5	23095	V	16.82	5.07	-3.84	18.05	34.77
			H	22.83	5.07	-3.83	24.07	34.77
	713.5	23155	V	17.06	5.08	-3.85	18.29	34.77
			H	23.18	5.08	-3.85	24.41	34.77
LTE BAND 12 BW: 5M 16QAM RB: 1,24	701.5	23035	V	16.47	5.07	-3.83	17.71	34.77
			H	22.62	5.07	-3.83	23.86	34.77
	707.5	23095	V	17.33	5.08	-3.85	18.56	34.77
			H	23.53	5.08	-3.85	<b>24.76</b>	34.77
	713.5	23155	V	16.64	5.09	-3.87	17.86	34.77
			H	22.78	5.09	-3.87	24.00	34.77

Remark :

( 1 ) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 12 BW: 10M QPSK RB: 1,0	704.0	23060	V	16.25	5.05	-3.82	17.48	34.77
			H	22.27	5.06	-3.82	23.51	34.77
	707.5	23095	V	16.24	5.07	-3.83	17.48	34.77
			H	22.39	5.07	-3.83	23.63	34.77
	711.0	23130	V	16.87	5.07	-3.84	18.10	34.77
			H	23.01	5.07	-3.84	24.24	34.77
LTE BAND 12 BW: 10M QPSK RB: 1,49	704.0	23060	V	16.98	5.08	-3.84	18.22	34.77
			H	23.16	5.08	-3.85	<b>24.39</b>	34.77
	707.5	23095	V	16.54	5.08	-3.86	17.76	34.77
			H	21.70	5.08	-3.86	22.92	34.77
	711.0	23130	V	15.70	5.09	-3.86	16.93	34.77
			H	22.90	5.09	-3.87	24.12	34.77
LTE BAND 12 BW: 10M 16QAM RB: 1,0	704.0	23060	V	15.38	5.06	-3.82	16.62	34.77
			H	22.35	5.06	-3.82	23.59	34.77
	707.5	23095	V	16.31	5.07	-3.83	17.55	34.77
			H	22.35	5.07	-3.83	23.59	34.77
	711.0	23130	V	16.00	5.07	-3.84	17.23	34.77
			H	23.33	5.07	-3.84	24.56	34.77
LTE BAND 12 BW: 10M 16QAM RB: 1,49	704.0	23060	V	17.32	5.08	-3.85	18.55	34.77
			H	23.46	5.08	-3.84	<b>24.70</b>	34.77
	707.5	23095	V	16.62	5.08	-3.86	17.84	34.77
			H	21.76	5.08	-3.86	22.98	34.77
	711.0	23130	V	16.82	5.09	-3.87	18.04	34.77
			H	23.07	5.09	-3.87	24.29	34.77

**Remark :**

( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 13 BW: 5M QPSK RB: 1,0	779.5	23205	V	16.19	5.19	-4.04	17.34	34.77
			H	22.37	5.19	-4.04	23.52	34.77
	782.0	23230	V	17.28	5.20	-4.05	18.43	34.77
			H	23.52	5.19	-4.05	24.66	34.77
	784.5	23255	V	17.38	5.20	-4.05	18.53	34.77
			H	23.66	5.20	-4.06	24.80	34.77
LTE BAND 13 BW: 5M QPSK RB: 1,24	779.5	23205	V	17.82	5.20	-4.06	18.96	34.77
			H	24.12	5.20	-4.05	25.27	34.77
	782.0	23230	V	15.90	5.20	-4.06	17.04	34.77
			H	22.21	5.20	-4.06	23.35	34.77
	784.5	23255	V	17.31	5.20	-4.07	18.44	34.77
			H	23.59	5.20	-4.07	24.72	34.77
LTE BAND 13 BW: 5M 16QAM RB: 1,0	779.5	23205	V	16.12	5.19	-4.04	17.27	34.77
			H	22.37	5.19	-4.04	23.52	34.77
	782.0	23230	V	17.26	5.20	-4.05	18.41	34.77
			H	23.51	5.20	-4.05	24.66	34.77
	784.5	23255	V	17.53	5.20	-4.06	18.67	34.77
			H	23.76	5.20	-4.06	24.90	34.77
LTE BAND 13 BW: 5M 16QAM RB: 1,24	779.5	23205	V	21.32	5.20	-4.05	22.47	34.77
			H	24.30	5.20	-4.06	25.44	34.77
	782.0	23230	V	15.95	5.20	-4.06	17.09	34.77
			H	22.26	5.20	-4.06	23.40	34.77
	784.5	23255	V	17.56	5.20	-4.07	18.69	34.77
			H	23.89	5.20	-4.08	25.01	34.77
<b>Remark :</b>			( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz					

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
LTE BAND 13 BW: 10 M	MHz		V/H	dBm	dBd	dB	dBm	dBm
QPSK RB: 1,0	782.0	23230	V	22.43	5.19	-4.04	23.58	34.77
			H	23.83	5.20	-4.07	<b>24.96</b>	34.77
QPSK RB: 1,49	782.0	23230	V	22.46	5.19	-4.04	23.61	34.77
			H	23.99	5.20	-4.07	<b>25.12</b>	34.77
16QAM RB: 1,0	782.0	23230	V	16.19	5.19	-4.04	17.34	34.77
			H	16.87	5.20	-4.07	<b>18.00</b>	34.77
16QAM RB: 1,49	782.0	23230	V	16.20	5.19	-4.04	17.35	34.77
			H	17.01	5.20	-4.07	<b>18.14</b>	34.77
<b>Remark :</b> ( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz								

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 17 BW: 5M QPSK RB: 1,0	706.5	23755	V	16.05	5.07	-3.83	17.29	34.77
			H	22.31	5.07	-3.83	23.55	34.77
	710.0	23790	V	16.72	5.08	-3.84	17.96	34.77
			H	23.16	5.08	-3.84	<b>24.40</b>	34.77
	713.5	23825	V	16.26	5.08	-3.86	17.48	34.77
			H	22.90	5.08	-3.86	24.12	34.77
LTE BAND 17 BW: 5M QPSK RB: 1,24	706.5	23755	V	16.42	5.08	-3.85	17.65	34.77
			H	22.93	5.08	-3.85	24.16	34.77
	710.0	23790	V	15.95	5.08	-3.86	17.17	34.77
			H	22.68	5.08	-3.86	23.90	34.77
	713.5	23825	V	16.14	5.09	-3.87	17.36	34.77
			H	22.86	5.09	-3.87	24.08	34.77
LTE BAND 17 BW: 5M 16QAM RB: 1,0	706.5	23755	V	16.18	5.07	-3.83	17.42	34.77
			H	22.10	5.07	-3.83	23.34	34.77
	710.0	23790	V	16.91	5.08	-3.84	18.15	34.77
			H	23.37	5.08	-3.84	<b>24.61</b>	34.77
	713.5	23825	V	16.37	5.08	-3.86	17.59	34.77
			H	23.01	5.08	-3.85	24.24	34.77
LTE BAND 17 BW: 5M 16QAM RB: 1,24	706.5	23755	V	16.58	5.08	-3.85	17.81	34.77
			H	23.12	5.08	-3.85	24.35	34.77
	710.0	23790	V	16.04	5.09	-3.86	17.27	34.77
			H	22.82	5.09	-3.86	24.05	34.77
	713.5	23825	V	16.33	5.09	-3.87	17.55	34.77
			H	23.13	5.09	-3.87	24.35	34.77

**Remark :**

( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 17 BW: 10M QPSK RB: 1,0	709.0	23780	V	15.98	5.07	-3.83	17.22	34.77
			H	22.06	5.07	-3.83	23.30	34.77
	710.0	23790	V	16.03	5.07	-3.84	17.26	34.77
			H	22.20	5.07	-3.84	23.43	34.77
	711.0	23800	V	16.16	5.07	-3.84	17.39	34.77
			H	22.41	5.07	-3.84	23.64	34.77
LTE BAND 17 BW: 10M QPSK RB: 1,49	709.0	23780	V	15.73	5.09	-3.86	16.96	34.77
			H	22.44	5.09	-3.86	23.67	34.77
	710.0	23790	V	15.75	5.09	-3.86	16.98	34.77
			H	22.48	5.09	-3.86	23.71	34.77
	711.0	23800	V	14.76	5.09	-3.87	15.98	34.77
			H	22.67	5.09	-3.87	<b>23.89</b>	34.77
LTE BAND 17 BW: 10M 16QAM RB: 1,0	709.0	23780	V	16.06	5.07	-3.84	17.29	34.77
			H	22.15	5.07	-3.83	23.39	34.77
	710.0	23790	V	16.06	5.07	-3.84	17.29	34.77
			H	22.32	5.07	-3.84	23.55	34.77
	711.0	23800	V	16.30	5.07	-3.84	17.53	34.77
			H	22.55	5.07	-3.84	23.78	34.77
LTE BAND 17 BW: 10M 16QAM RB: 1,49	709.0	23780	V	15.70	5.09	-3.86	16.93	34.77
			H	22.44	5.09	-3.86	23.67	34.77
	710.0	23790	V	15.71	5.09	-3.86	16.94	34.77
			H	22.45	5.09	-3.86	23.68	34.77
	711.0	23800	V	15.92	5.09	-3.87	17.14	34.77
			H	22.74	5.09	-3.87	<b>23.96</b>	34.77

Remark :

(1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 25 BW: 1.4M QPSK RB: 1,0	1850.7	26047	V	20.75	9.57	-6.86	23.46	33.01
			H	23.08	9.57	-6.86	25.79	33.01
	1882.5	26365	V	20.29	9.70	-6.92	23.07	33.01
			H	22.20	9.71	-6.92	24.99	33.01
	1914.3	26683	V	19.10	9.84	-6.98	21.96	33.01
			H	20.41	9.84	-6.98	23.27	33.01
LTE BAND 25 BW: 1.4M QPSK RB: 1,5	1850.7	26047	V	20.24	9.58	-6.86	22.96	33.01
			H	23.20	9.58	-6.86	<b>25.92</b>	33.01
	1882.5	26365	V	20.33	9.71	-6.92	23.12	33.01
			H	22.47	9.71	-6.92	25.26	33.01
	1914.3	26683	V	18.29	9.84	-6.98	21.15	33.01
			H	19.33	9.84	-6.98	22.19	33.01
LTE BAND 25 BW: 1.4M 16QAM RB: 1,0	1850.7	26047	V	20.63	9.57	-6.86	23.34	33.01
			H	23.19	9.57	-6.86	<b>25.90</b>	33.01
	1882.5	26365	V	20.70	9.71	-6.92	23.49	33.01
			H	22.52	9.71	-6.92	25.31	33.01
	1914.3	26683	V	18.88	9.84	-6.98	21.74	33.01
			H	20.41	9.84	-6.98	23.27	33.01
LTE BAND 25 BW: 1.4M 16QAM RB: 1,5	1850.7	26047	V	20.50	9.58	-6.86	23.22	33.01
			H	23.06	9.58	-6.86	25.78	33.01
	1882.5	26365	V	20.53	9.71	-6.92	23.32	33.01
			H	22.54	9.71	-6.92	25.33	33.01
	1914.3	26683	V	18.17	9.84	-6.98	21.03	33.01
			H	19.41	9.85	-6.98	22.28	33.01
<b>Remark :</b> ( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz								

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 25 BW: 3M QPSK RB: 1,0	1851.5	26055	V	20.04	9.57	-6.86	22.75	33.01
			H	23.25	9.57	-6.86	25.96	33.01
	1882.5	26365	V	20.07	9.70	-6.92	22.85	33.01
			H	22.49	9.70	-6.91	25.28	33.01
	1913.5	26675	V	19.78	9.83	-6.97	22.64	33.01
			H	21.13	9.83	-6.97	23.99	33.01
LTE BAND 25 BW: 3M QPSK RB: 1,14	1851.5	26055	V	20.27	9.58	-6.86	22.99	33.01
			H	22.90	9.58	-6.86	25.62	33.01
	1882.5	26365	V	20.24	9.71	-6.92	23.03	33.01
			H	22.30	9.71	-6.92	25.09	33.01
	1913.5	26675	V	18.37	9.84	-6.98	21.23	33.01
			H	19.35	9.84	-6.98	22.21	33.01
LTE BAND 25 BW: 3M 16QAM RB: 1,0	1851.5	26055	V	20.55	9.57	-6.86	23.26	33.01
			H	23.57	9.57	-6.86	<b>26.28</b>	33.01
	1882.5	26365	V	20.56	9.70	-6.92	23.34	33.01
			H	22.80	9.70	-6.91	25.59	33.01
	1913.5	26675	V	19.85	9.83	-6.97	22.71	33.01
			H	21.08	9.83	-6.97	23.94	33.01
LTE BAND 25 BW: 3M 16QAM RB: 1,14	1851.5	26055	V	20.60	9.58	-6.86	23.32	33.01
			H	23.35	9.58	-6.86	26.07	33.01
	1882.5	26365	V	20.45	9.71	-6.92	23.24	33.01
			H	22.39	9.71	-6.92	25.18	33.01
	1913.5	26675	V	18.66	9.84	-6.98	21.52	33.01
			H	19.56	9.84	-6.98	22.42	33.01

**Remark :** ( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 25 BW: 5M QPSK RB: 1,0	1852.5	26065	V	20.32	9.57	-6.86	23.03	33.01
			H	22.86	9.57	-6.86	25.57	33.01
	1882.5	26365	V	20.33	9.70	-6.91	23.12	33.01
			H	22.55	9.70	-6.91	25.34	33.01
	1912.5	26665	V	19.37	9.82	-6.97	22.22	33.01
			H	20.34	9.82	-6.97	23.19	33.01
LTE BAND 25 BW: 5M QPSK RB: 1,24	1852.5	26065	V	20.29	9.59	-6.86	23.02	33.01
			H	22.56	9.59	-6.86	25.29	33.01
	1882.5	26365	V	20.32	9.72	-6.92	23.12	33.01
			H	22.17	9.72	-6.92	24.97	33.01
	1912.5	26665	V	18.80	9.84	-6.98	21.66	33.01
			H	19.25	9.84	-6.98	22.11	33.01
LTE BAND 25 BW: 5M 16QAM RB: 1,0	1852.5	26065	V	20.63	9.57	-6.86	23.34	33.01
			H	23.33	9.57	-6.86	<b>26.04</b>	33.01
	1882.5	26365	V	20.65	9.70	-6.91	23.44	33.01
			H	22.95	9.70	-6.91	25.74	33.01
	1912.5	26665	V	19.40	9.83	-6.97	22.26	33.01
			H	20.43	9.82	-6.97	23.28	33.01
LTE BAND 25 BW: 5M 16QAM RB: 1,24	1852.5	26065	V	20.78	9.59	-6.86	23.51	33.01
			H	23.27	9.59	-6.87	25.99	33.01
	1882.5	26365	V	20.45	9.72	-6.92	23.25	33.01
			H	22.52	9.72	-6.92	25.32	33.01
	1912.5	26665	V	18.84	9.84	-6.98	21.70	33.01
			H	19.61	9.84	-6.98	22.47	33.01

**Remark :** ( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 25 BW: 10M QPSK RB: 1,0	1855.0	26090	V	20.04	9.57	-6.86	22.75	33.01
			H	23.19	9.57	-6.86	25.90	33.01
	1882.5	26365	V	20.36	9.69	-6.91	23.14	33.01
			H	22.96	9.69	-6.91	25.74	33.01
	1910.0	26640	V	19.76	9.80	-6.96	22.60	33.01
			H	21.29	9.81	-6.96	24.14	33.01
LTE BAND 25 BW: 10M QPSK RB: 1,49	1855.0	26090	V	20.97	9.61	-6.87	23.71	33.01
			H	23.01	9.61	-6.87	25.75	33.01
	1882.5	26365	V	20.45	9.73	-6.93	23.25	33.01
			H	22.27	9.73	-6.93	25.07	33.01
	1910.0	26640	V	18.67	9.84	-6.98	21.53	33.01
			H	19.66	9.84	-6.98	22.52	33.01
LTE BAND 25 BW: 10M 16QAM RB: 1,0	1855.0	26090	V	20.46	9.57	-6.86	23.17	33.01
			H	23.24	9.57	-6.86	25.95	33.01
	1882.5	26365	V	20.93	9.69	-6.91	23.71	33.01
			H	22.99	9.69	-6.91	25.77	33.01
	1910.0	26640	V	19.82	9.80	-6.96	22.66	33.01
			H	21.29	9.80	-6.96	24.13	33.01
LTE BAND 25 BW: 10M 16QAM RB: 1,49	1855.0	26090	V	21.33	9.61	-6.87	24.07	33.01
			H	23.00	9.61	-6.87	25.74	33.01
	1882.5	26365	V	20.71	9.73	-6.93	23.51	33.01
			H	22.56	9.73	-6.93	25.36	33.01
	1910.0	26640	V	18.87	9.84	-6.98	21.73	33.01
			H	19.68	9.84	-6.98	22.54	33.01

Remark : ( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 25 BW: 15M QPSK RB: 1,0	1857.5	26115	V	20.45	9.57	-6.86	23.16	33.01
			H	23.10	9.58	-6.86	25.82	33.01
	1882.5	26365	V	20.98	9.68	-6.90	23.76	33.01
			H	23.11	9.68	-6.90	25.89	33.01
	1907.5	26615	V	21.73	9.78	-6.95	24.56	33.01
			H	22.24	9.78	-6.95	25.07	33.01
LTE BAND 25 BW: 15M QPSK RB: 1,74	1857.5	26115	V	21.63	9.63	-6.88	24.38	33.01
			H	22.89	9.63	-6.88	25.64	33.01
	1882.5	26365	V	20.96	9.74	-6.93	23.77	33.01
			H	22.23	9.74	-6.93	25.04	33.01
	1907.5	26615	V	18.84	9.84	-6.98	21.70	33.01
			H	19.51	9.84	-6.98	22.37	33.01
LTE BAND 25 BW: 15M 16QAM RB: 1,0	1857.5	26115	V	20.35	9.58	-6.86	23.07	33.01
			H	23.41	9.57	-6.86	26.12	33.01
	1882.5	26365	V	21.76	9.68	-6.90	24.54	33.01
			H	23.93	9.68	-6.90	<b>26.71</b>	33.01
	1907.5	26615	V	22.01	9.79	-6.95	24.85	33.01
			H	22.35	9.78	-6.95	25.18	33.01
LTE BAND 25 BW: 15M 16QAM RB: 1,74	1857.5	26115	V	22.30	9.63	-6.88	25.05	33.01
			H	23.62	9.63	-6.88	26.37	33.01
	1882.5	26365	V	21.39	9.73	-6.93	24.19	33.01
			H	22.60	9.74	-6.93	25.41	33.01
	1907.5	26615	V	19.23	9.84	-6.98	22.09	33.01
			H	19.93	9.84	-6.98	22.79	33.01
<b>Remark :</b>			( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz					

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 25 BW: 20M QPSK RB: 1,0	1860.0	26140	V	19.98	9.58	-6.86	22.70	33.01
			H	23.30	9.58	-6.86	26.02	33.01
	1882.5	26365	V	21.27	9.67	-6.90	24.04	33.01
			H	23.46	9.67	-6.90	26.23	33.01
	1905.0	26590	V	21.76	9.76	-6.94	24.58	33.01
			H	22.80	9.77	-6.94	25.63	33.01
LTE BAND 25 BW: 20M QPSK RB: 1,99	1860.0	26140	V	20.07	9.65	-6.89	22.83	33.01
			H	23.55	9.65	-6.89	26.31	33.01
	1882.5	26365	V	20.84	9.75	-6.93	23.66	33.01
			H	22.45	9.74	-6.93	25.26	33.01
	1905.0	26590	V	19.47	9.84	-6.98	22.33	33.01
			H	19.89	9.84	-6.98	22.75	33.01
LTE BAND 25 BW: 20M 16QAM RB: 1,0	1860.0	26140	V	20.58	9.57	-6.86	23.29	33.01
			H	23.56	9.58	-6.86	26.28	33.01
	1882.5	26365	V	21.86	9.67	-6.90	24.63	33.01
			H	24.18	9.67	-6.90	<b>26.95</b>	33.01
	1905.0	26590	V	21.79	9.77	-6.94	24.62	33.01
			H	23.55	9.76	-6.94	26.37	33.01
LTE BAND 25 BW: 20M 16QAM RB: 1,99	1860.0	26140	V	22.10	9.65	-6.89	24.86	33.01
			H	24.02	9.65	-6.89	26.78	33.01
	1882.5	26365	V	21.52	9.75	-6.93	24.34	33.01
			H	22.97	9.74	-6.93	25.78	33.01
	1905.0	26590	V	19.38	9.84	-6.98	22.24	33.01
			H	20.29	9.84	-6.98	23.15	33.01
<b>Remark :</b>			( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz					

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 26 BW: 1.4M QPSK RB: 1,0	824.7	26797	V	17.73	5.14	-4.18	18.69	38.45
			H	23.88	5.14	-4.18	<b>24.84</b>	38.45
	836.5	26915	V	18.68	5.10	-4.22	19.56	38.45
			H	23.81	5.10	-4.22	24.69	38.45
	848.3	27033	V	16.76	5.06	-4.26	17.56	38.45
			H	22.69	5.06	-4.26	23.49	38.45
LTE BAND 26 BW: 1.4M QPSK RB: 1,5	824.7	26797	V	17.31	5.13	-4.18	18.26	38.45
			H	23.38	5.13	-4.18	24.33	38.45
	836.5	26915	V	18.45	5.10	-4.23	19.32	38.45
			H	23.69	5.10	-4.23	24.56	38.45
	848.3	27033	V	16.27	5.06	-4.26	17.07	38.45
			H	22.28	5.06	-4.26	23.08	38.45
LTE BAND 26 BW: 1.4M 16QAM RB: 1,0	824.7	26797	V	17.72	5.14	-4.18	18.68	38.45
			H	23.89	5.14	-4.18	24.85	38.45
	836.5	26915	V	18.77	5.10	-4.22	19.65	38.45
			H	24.01	5.10	-4.22	<b>24.89</b>	38.45
	848.3	27033	V	16.83	5.06	-4.26	17.63	38.45
			H	22.79	5.06	-4.26	23.59	38.45
LTE BAND 26 BW: 1.4M 16QAM RB: 1,5	824.7	26797	V	17.35	5.13	-4.18	18.30	38.45
			H	23.41	5.13	-4.18	24.36	38.45
	836.5	26915	V	18.46	5.09	-4.23	19.32	38.45
			H	23.64	5.10	-4.22	24.52	38.45
	848.3	27033	V	16.30	5.06	-4.26	17.10	38.45
			H	22.35	5.06	-4.27	23.14	38.45

Remark : A for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 26 BW: 3M QPSK RB: 1,0	825.5	26805	V	17.59	5.14	-4.18	18.55	38.45
			H	23.68	5.14	-4.18	24.64	38.45
	836.5	26915	V	18.48	5.10	-4.22	19.36	38.45
			H	23.77	5.10	-4.22	<b>24.65</b>	38.45
	847.5	27025	V	17.34	5.06	-4.26	18.14	38.45
			H	23.18	5.06	-4.26	23.98	38.45
LTE BAND 26 BW: 3M QPSK RB: 1,14	825.5	26805	V	16.79	5.13	-4.19	17.73	38.45
			H	22.67	5.13	-4.19	23.61	38.45
	836.5	26915	V	17.99	5.09	-4.23	18.85	38.45
			H	23.24	5.09	-4.23	24.10	38.45
	847.5	27025	V	16.21	5.06	-4.27	17.00	38.45
			H	22.34	5.06	-4.26	23.14	38.45
LTE BAND 26 BW: 3M 16QAM RB: 1,0	825.5	26805	V	17.55	5.14	-4.18	18.51	38.45
			H	23.65	5.14	-4.18	24.61	38.45
	836.5	26915	V	18.66	5.10	-4.22	19.54	38.45
			H	23.90	5.10	-4.22	<b>24.78</b>	38.45
	847.5	27025	V	17.25	5.07	-4.25	18.07	38.45
			H	23.20	5.06	-4.26	24.00	38.45
LTE BAND 26 BW: 3M 16QAM RB: 1,14	825.5	26805	V	16.83	5.13	-4.19	17.77	38.45
			H	22.67	5.13	-4.19	23.61	38.45
	836.5	26915	V	18.03	5.09	-4.23	18.89	38.45
			H	23.10	5.09	-4.23	23.96	38.45
	847.5	27025	V	16.34	5.06	-4.26	17.14	38.45
			H	22.48	5.06	-4.26	23.28	38.45

Remark : ( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 26 BW: 5M QPSK RB: 1,0	826.5	26815	V	17.63	5.14	-4.18	18.59	38.45
			H	23.69	5.14	-4.18	<b>24.65</b>	38.45
	836.5	26915	V	14.92	5.11	-4.21	15.82	38.45
			H	23.71	5.10	-4.22	24.59	38.45
	846.5	27015	V	14.08	5.07	-4.25	14.90	38.45
			H	23.00	5.07	-4.25	23.82	38.45
LTE BAND 26 BW: 5M QPSK RB: 1,24	826.5	26815	V	16.82	5.13	-4.19	17.76	38.45
			H	22.41	5.12	-4.20	23.33	38.45
	836.5	26915	V	14.50	5.09	-4.23	15.36	38.45
			H	23.14	5.09	-4.23	24.00	38.45
	846.5	27015	V	12.94	5.06	-4.26	13.74	38.45
			H	22.30	5.06	-4.26	23.10	38.45
LTE BAND 26 BW: 5M 16QAM RB: 1,0	826.5	26815	V	17.67	5.14	-4.18	18.63	38.45
			H	23.75	5.14	-4.18	<b>24.71</b>	38.45
	836.5	26915	V	15.21	5.10	-4.22	16.09	38.45
			H	23.82	5.10	-4.22	24.70	38.45
	846.5	27015	V	14.11	5.07	-4.25	14.93	38.45
			H	23.01	5.07	-4.25	23.83	38.45
LTE BAND 26 BW: 5M 16QAM RB: 1,24	826.5	26815	V	16.82	5.12	-4.20	17.74	38.45
			H	22.49	5.12	-4.19	23.42	38.45
	836.5	26915	V	14.45	5.09	-4.23	15.31	38.45
			H	23.10	5.09	-4.23	23.96	38.45
	846.5	27015	V	13.15	5.06	-4.26	13.95	38.45
			H	22.54	5.06	-4.26	23.34	38.45
<b>Remark :</b>			( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz					

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 26 BW: 10M QPSK RB: 1,0	829.0	26840	V	17.47	5.13	-4.18	18.42	38.45
			H	23.49	5.14	-4.18	24.45	38.45
	836.5	26915	V	17.95	5.11	-4.21	18.85	38.45
			H	23.40	5.11	-4.21	24.30	38.45
	844.0	26990	V	17.67	5.09	-4.24	18.52	38.45
			H	22.94	5.08	-4.24	23.78	38.45
LTE BAND 26 BW: 10M QPSK RB: 1,49	829.0	26840	V	18.21	5.11	-4.21	19.11	38.45
			H	23.55	5.11	-4.21	24.45	38.45
	836.5	26915	V	17.43	5.08	-4.24	18.27	38.45
			H	22.71	5.08	-4.24	23.55	38.45
	844.0	26990	V	16.27	5.06	-4.26	17.07	38.45
			H	22.34	5.06	-4.26	23.14	38.45
LTE BAND 26 BW: 10M 16QAM RB: 1,0	829.0	26840	V	15.82	5.14	-4.18	16.78	38.45
			H	23.47	5.14	-4.18	24.43	38.45
	836.5	26915	V	18.01	5.11	-4.21	18.91	38.45
			H	23.44	5.11	-4.21	24.34	38.45
	844.0	26990	V	17.64	5.09	-4.24	18.49	38.45
			H	22.92	5.09	-4.24	23.77	38.45
LTE BAND 26 BW: 10M 16QAM RB: 1,49	829.0	26840	V	18.33	5.11	-4.21	19.23	38.45
			H	23.80	5.11	-4.21	24.70	38.45
	836.5	26915	V	17.51	5.08	-4.24	18.35	38.45
			H	22.76	5.08	-4.24	23.60	38.45
	844.0	26990	V	16.49	5.06	-4.26	17.29	38.45
			H	22.59	5.06	-4.26	23.39	38.45
<b>Remark :</b> ( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz								

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 26 BW: 15M QPSK RB: 1,0	831.5	26865	V	17.32	5.13	-4.18	18.27	38.45
			H	23.31	5.14	-4.18	24.27	38.45
	836.5	26915	V	17.10	5.12	-4.20	18.02	38.45
			H	22.67	5.12	-4.20	23.59	38.45
	841.5	26965	V	18.21	5.10	-4.22	19.09	38.45
			H	23.58	5.10	-4.22	<b>24.46</b>	38.45
LTE BAND 26 BW: 15M QPSK RB: 1,74	831.5	26865	V	17.67	5.09	-4.23	18.53	38.45
			H	22.92	5.09	-4.23	23.78	38.45
	836.5	26915	V	17.06	5.07	-4.25	17.88	38.45
			H	22.48	5.08	-4.25	23.31	38.45
	841.5	26965	V	16.25	5.06	-4.26	17.05	38.45
			H	22.35	5.06	-4.26	23.15	38.45
LTE BAND 26 BW: 15M 16QAM RB: 1,0	831.5	26865	V	17.35	5.13	-4.18	18.30	38.45
			H	23.34	5.14	-4.18	24.30	38.45
	836.5	26915	V	17.09	5.12	-4.20	18.01	38.45
			H	22.73	5.12	-4.20	23.65	38.45
	841.5	26965	V	18.21	5.10	-4.22	19.09	38.45
			H	23.53	5.10	-4.22	<b>24.41</b>	38.45
LTE BAND 26 BW: 15M 16QAM RB: 1,74	831.5	26865	V	17.65	5.09	-4.23	18.51	38.45
			H	22.84	5.09	-4.23	23.70	38.45
	836.5	26915	V	17.29	5.07	-4.25	18.11	38.45
			H	22.72	5.08	-4.25	23.55	38.45
	841.5	26965	V	16.45	5.06	-4.26	17.25	38.45
			H	22.45	5.06	-4.26	23.25	38.45

Remark : ( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 26 BW: 1.4M QPSK RB: 1,0	814.7	26697	V	16.04	5.17	-4.14	17.07	50.00
			H	23.39	5.17	-4.14	24.42	50.00
	819.0	26740	V	17.58	5.16	-4.16	18.58	50.00
			H	24.25	5.16	-4.16	25.25	50.00
	823.3	26783	V	17.91	5.14	-4.17	18.88	50.00
			H	24.18	5.14	-4.17	25.15	50.00
LTE BAND 26 BW: 1.4M QPSK RB: 1,5	814.7	26697	V	16.19	5.17	-4.15	17.21	50.00
			H	23.36	5.17	-4.14	24.39	50.00
	819.0	26740	V	17.93	5.15	-4.16	18.92	50.00
			H	24.42	5.15	-4.16	<b>25.41</b>	50.00
	823.3	26783	V	17.87	5.14	-4.18	18.83	50.00
			H	23.98	5.14	-4.18	24.94	50.00
LTE BAND 26 BW: 1.4M 16QAM RB: 1,0	814.7	26697	V	16.15	5.17	-4.14	17.18	50.00
			H	23.45	5.17	-4.14	24.48	50.00
	819.0	26740	V	17.59	5.16	-4.16	18.59	50.00
			H	24.30	5.16	-4.15	25.31	50.00
	823.3	26783	V	17.91	5.14	-4.17	18.88	50.00
			H	24.17	5.14	-4.18	25.13	50.00
LTE BAND 26 BW: 1.4M 16QAM RB: 1,5	814.7	26697	V	16.23	5.17	-4.15	17.25	50.00
			H	23.35	5.17	-4.15	24.37	50.00
	819.0	26740	V	18.05	5.15	-4.16	19.04	50.00
			H	24.56	5.15	-4.16	<b>25.55</b>	50.00
	823.3	26783	V	17.91	5.14	-4.18	18.87	50.00
			H	24.02	5.14	-4.18	24.98	50.00

**Remark :** ( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 26 BW: 3M QPSK RB: 1,0	815.5	26705	V	16.06	5.17	-4.14	17.09	50.00
			H	20.56	5.17	-4.14	21.59	50.00
	819.0	26740	V	17.44	5.16	-4.15	18.45	50.00
			H	15.75	5.16	-4.15	16.76	50.00
	822.5	26775	V	17.84	5.15	-4.16	18.83	50.00
			H	24.25	5.15	-4.16	25.24	50.00
LTE BAND 26 BW: 3M QPSK RB: 1,14	815.5	26705	V	16.68	5.16	-4.15	17.69	50.00
			H	23.54	5.16	-4.15	24.55	50.00
	819.0	26740	V	17.78	5.15	-4.16	18.77	50.00
			H	24.29	5.15	-4.16	<b>25.28</b>	50.00
	822.5	26775	V	17.70	5.14	-4.18	18.66	50.00
			H	23.76	5.14	-4.18	24.72	50.00
LTE BAND 26 BW: 3M 16QAM RB: 1,0	815.5	26705	V	16.16	5.17	-4.14	17.19	50.00
			H	23.49	5.17	-4.14	24.52	50.00
	819.0	26740	V	17.44	5.16	-4.15	18.45	50.00
			H	24.22	5.16	-4.15	25.23	50.00
	822.5	26775	V	17.99	5.14	-4.17	18.96	50.00
			H	24.22	5.15	-4.16	25.21	50.00
LTE BAND 26 BW: 3M 16QAM RB: 1,14	815.5	26705	V	16.60	5.16	-4.15	17.61	50.00
			H	23.63	5.16	-4.15	24.64	50.00
	819.0	26740	V	17.87	5.15	-4.16	18.86	50.00
			H	24.40	5.15	-4.16	<b>25.39</b>	50.00
	822.5	26775	V	17.64	5.14	-4.18	18.60	50.00
			H	23.75	5.14	-4.18	24.71	50.00

**Remark**

: ( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 26 BW: 5M QPSK RB: 1,0	816.5	26715	V	9.27	5.17	-4.14	10.30	50.00
			H	23.39	5.17	-4.14	24.42	50.00
	819.0	26740	V	16.95	5.16	-4.15	17.96	50.00
			H	23.83	5.16	-4.15	24.84	50.00
	821.5	26765	V	17.77	5.15	-4.16	18.76	50.00
			H	24.32	5.16	-4.16	<b>25.32</b>	50.00
LTE BAND 26 BW: 5M QPSK RB: 1,24	816.5	26715	V	17.53	5.16	-4.16	18.53	50.00
			H	24.06	5.16	-4.16	25.06	50.00
	819.0	26740	V	17.79	5.15	-4.17	18.77	50.00
			H	24.18	5.15	-4.17	25.16	50.00
	821.5	26765	V	17.65	5.14	-4.18	18.61	50.00
			H	23.76	5.14	-4.17	24.73	50.00
LTE BAND 26 BW: 5M 16QAM RB: 1,0	816.5	26715	V	16.19	5.17	-4.14	17.22	50.00
			H	23.46	5.17	-4.14	24.49	50.00
	819.0	26740	V	16.94	5.16	-4.15	17.95	50.00
			H	23.86	5.16	-4.15	24.87	50.00
	821.5	26765	V	18.24	5.16	-4.15	19.25	50.00
			H	24.51	5.15	-4.16	<b>25.50</b>	50.00
LTE BAND 26 BW: 5M 16QAM RB: 1,24	816.5	26715	V	17.58	5.16	-4.16	18.58	50.00
			H	24.21	5.16	-4.15	25.22	50.00
	819.0	26740	V	17.86	5.15	-4.16	18.85	50.00
			H	24.37	5.15	-4.17	25.35	50.00
	821.5	26765	V	17.65	5.14	-4.17	18.62	50.00
			H	23.80	5.14	-4.17	24.77	50.00
<b>Remark :</b>			( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz					

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
LTE BAND 26 BW: 10M	MHz		V/H	dBm	dBd	dB	dBm	dBm
QPSK RB: 1,0	819.0	26740	V	15.75	5.17	-4.14	16.78	50.00
			H	22.94	5.17	-4.14	<b>23.97</b>	50.00
QPSK RB: 1,49	819.0	26740	V	17.56	5.14	-4.17	18.53	50.00
			H	23.62	5.14	-4.17	<b>24.59</b>	50.00
16QAM RB: 1,0	819.0	26740	V	15.73	5.17	-4.14	16.76	50.00
			H	22.91	5.17	-4.14	<b>23.94</b>	50.00
16QAM RB: 1,49	819.0	26740	V	17.49	5.14	-4.17	18.46	50.00
			H	23.63	5.14	-4.17	<b>24.60</b>	50.00
<b>Remark :</b> ( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz								

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 30 BW: 5M QPSK RB: 1,0	2307.5	27685	V	20.14	10.51	-7.59	23.06	24.00
			H	12.01	10.51	-7.59	14.93	24.00
	2310.0	27710	V	20.30	10.51	-7.59	23.22	24.00
			H	12.39	10.51	-7.59	15.31	24.00
	2312.5	27735	V	20.05	10.51	-7.59	22.97	24.00
			H	11.78	10.51	-7.59	14.70	24.00
LTE BAND 30 BW: 5M QPSK RB: 1,24	2307.5	27685	V	20.43	10.51	-7.59	<b>23.35</b>	24.00
			H	12.05	10.51	-7.59	14.97	24.00
	2310.0	27710	V	19.66	10.51	-7.60	22.57	24.00
			H	11.40	10.51	-7.60	14.31	24.00
	2312.5	27735	V	19.13	10.51	-7.60	22.04	24.00
			H	10.68	10.51	-7.60	13.59	24.00
LTE BAND 30 BW: 5M 16QAM RB: 1,0	2307.5	27685	V	20.13	10.51	-7.59	23.05	24.00
			H	12.13	10.51	-7.59	15.05	24.00
	2310.0	27710	V	20.38	10.51	-7.59	23.30	24.00
			H	12.58	10.51	-7.59	15.50	24.00
	2312.5	27735	V	20.14	10.51	-7.59	23.06	24.00
			H	11.90	10.51	-7.59	14.82	24.00
LTE BAND 30 BW: 5M 16QAM RB: 1,24	2307.5	27685	V	20.43	10.51	-7.59	<b>23.35</b>	24.00
			H	12.05	10.51	-7.59	14.97	24.00
	2310.0	27710	V	19.76	10.51	-7.60	22.67	24.00
			H	11.48	10.51	-7.60	14.39	24.00
	2312.5	27735	V	19.21	10.51	-7.60	22.12	24.00
			H	10.77	10.51	-7.60	13.68	24.00

Remark :

( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 30 BW: 10M QPSK	2310.0	27710	V	19.84	10.51	-7.59	22.76	24.00
			H	12.34	10.51	-7.59	15.26	24.00
LTE BAND 30 BW: 10M QPSK	2310.0	27710	V	19.12	10.51	-7.6	22.03	24.00
			H	10.87	10.51	-7.6	13.78	24.00
LTE BAND 30 BW: 10M 16QAM	2310.0	27710	V	19.99	10.51	-7.59	22.91	24.00
			H	12.34	10.51	-7.59	15.26	24.00
LTE BAND 30 BW: 10M 16QAM	2310.0	27710	V	19.16	10.51	-7.6	22.07	24.00
			H	10.77	10.51	-7.6	13.68	24.00

Remark :

(1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 38 BW: 5M QPSK RB: 1,0	2572.5	37775	V	13.20	10.78	-7.91	16.07	33.00
			H	12.91	10.78	-7.91	15.78	33.00
	2595.0	38000	V	14.15	10.81	-7.93	17.03	33.00
			H	15.75	10.81	-7.93	18.63	33.00
	2617.5	38225	V	12.60	10.84	-7.95	15.49	33.00
			H	15.67	10.84	-7.95	18.56	33.00
LTE BAND 38 BW: 5M QPSK RB: 1,24	2572.5	37775	V	13.52	10.79	-7.91	16.40	33.00
			H	13.89	10.79	-7.91	16.77	33.00
	2595.0	38000	V	13.49	10.82	-7.94	16.37	33.00
			H	15.48	10.81	-7.93	18.36	33.00
	2617.5	38225	V	12.08	10.84	-7.96	14.96	33.00
			H	15.91	10.84	-7.96	<b>18.79</b>	33.00
LTE BAND 38 BW: 5M 16QAM RB: 1,0	2572.5	37775	V	12.71	10.78	-7.91	15.58	33.00
			H	12.36	10.78	-7.91	15.23	33.00
	2595.0	38000	V	13.73	10.81	-7.93	16.61	33.00
			H	15.26	10.81	-7.93	18.14	33.00
	2617.5	38225	V	12.11	10.84	-7.96	14.99	33.00
			H	15.23	10.84	-7.96	18.11	33.00
LTE BAND 38 BW: 5M 16QAM RB: 1,24	2572.5	37775	V	12.90	10.79	-7.91	15.78	33.00
			H	13.22	10.79	-7.91	16.10	33.00
	2595.0	38000	V	12.83	10.82	-7.94	15.71	33.00
			H	14.19	10.82	-7.94	17.07	33.00
	2617.5	38225	V	11.75	10.84	-7.96	14.63	33.00
			H	15.34	10.84	-7.96	<b>18.22</b>	33.00

Remark : ( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 38 BW: 10M QPSK RB: 1,0	2575.0	37800	V	13.23	10.78	-7.91	16.10	33.00
			H	13.13	10.78	-7.91	16.00	33.00
	2595.0	38000	V	14.58	10.81	-7.93	17.46	33.00
			H	14.75	10.81	-7.93	17.63	33.00
	2615.0	38200	V	13.46	10.83	-7.95	16.34	33.00
			H	16.16	10.83	-7.95	<b>19.04</b>	33.00
LTE BAND 38 BW: 10M QPSK RB: 1,49	2575.0	37800	V	13.48	10.80	-7.92	16.36	33.00
			H	14.96	10.79	-7.92	17.83	33.00
	2595.0	38000	V	14.81	10.82	-7.94	17.69	33.00
			H	15.11	10.82	-7.94	17.99	33.00
	2615.0	38200	V	11.81	10.84	-7.96	14.69	33.00
			H	15.71	10.84	-7.96	18.59	33.00
LTE BAND 38 BW: 10M 16QAM RB: 1,0	2575.0	37800	V	13.43	10.78	-7.91	16.30	33.00
			H	13.08	10.78	-7.91	15.95	33.00
	2595.0	38000	V	13.94	10.81	-7.93	16.82	33.00
			H	14.75	10.81	-7.93	17.63	33.00
	2615.0	38200	V	13.04	10.83	-7.95	15.92	33.00
			H	15.62	10.83	-7.95	<b>18.50</b>	33.00
LTE BAND 38 BW: 10M 16QAM RB: 1,49	2575.0	37800	V	13.49	10.79	-7.92	16.36	33.00
			H	14.39	10.80	-7.92	17.27	33.00
	2595.0	38000	V	15.03	10.82	-7.94	17.91	33.00
			H	15.17	10.82	-7.94	18.05	33.00
	2615.0	38200	V	11.41	10.84	-7.96	14.29	33.00
			H	15.14	10.84	-7.96	18.02	33.00
<b>Remark :</b>			( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz					

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 38 BW: 15M QPSK RB: 1,0	2577.5	37825	V	13.23	10.78	-7.91	16.10	33.00
			H	12.48	10.78	-7.91	15.35	33.00
	2595.0	38000	V	14.09	10.81	-7.93	16.97	33.00
			H	14.59	10.81	-7.93	17.47	33.00
	2612.5	38175	V	14.50	10.83	-7.95	17.38	33.00
			H	15.35	10.83	-7.95	18.23	33.00
LTE BAND 38 BW: 15M QPSK RB: 1,74	2577.5	37825	V	13.30	10.80	-7.92	16.18	33.00
			H	14.23	10.80	-7.92	17.11	33.00
	2595.0	38000	V	14.36	10.82	-7.94	17.24	33.00
			H	14.77	10.82	-7.94	17.65	33.00
	2612.5	38175	V	11.86	10.84	-7.96	14.74	33.00
			H	15.38	10.84	-7.96	<b>18.26</b>	33.00
LTE BAND 38 BW: 15M 16QAM RB: 1,0	2577.5	37825	V	12.67	10.79	-7.91	15.55	33.00
			H	11.55	10.79	-7.91	14.43	33.00
	2595.0	38000	V	13.12	10.81	-7.93	16.00	33.00
			H	13.98	10.81	-7.93	16.86	33.00
	2612.5	38175	V	14.77	10.83	-7.95	17.65	33.00
			H	14.98	10.83	-7.95	<b>17.86</b>	33.00
LTE BAND 38 BW: 15M 16QAM RB: 1,74	2577.5	37825	V	12.81	10.80	-7.92	15.69	33.00
			H	13.82	10.80	-7.92	16.70	33.00
	2595.0	38000	V	13.86	10.82	-7.94	16.74	33.00
			H	14.23	10.82	-7.94	17.11	33.00
	2612.5	38175	V	12.05	10.84	-7.96	14.93	33.00
			H					33.00

Remark : (1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 38 BW: 20M QPSK RB: 1,0	2580.0	37850	V	13.86	10.80	-7.92	16.74	33.00
			H	14.77	10.80	-7.93	17.64	33.00
	2595.0	38000	V	13.66	10.80	-7.92	16.54	33.00
			H	15.22	10.80	-7.92	18.10	33.00
	2610.0	38150	V	14.84	10.82	-7.94	17.72	33.00
			H	15.32	10.82	-7.94	18.20	33.00
LTE BAND 38 BW: 20M QPSK RB: 1,99	2580.0	37850	V	14.54	10.82	-7.94	17.42	33.00
			H	15.04	10.82	-7.94	17.92	33.00
	2595.0	38000	V	14.15	10.82	-7.94	17.03	33.00
			H	15.21	10.82	-7.94	18.09	33.00
	2610.0	38150	V	12.56	10.84	-7.96	15.44	33.00
			H	15.78	10.84	-7.96	<b>18.66</b>	33.00
LTE BAND 38 BW: 20M 16QAM RB: 1,0	2580.0	37850	V	13.41	10.80	-7.92	16.29	33.00
			H	14.46	10.80	-7.92	17.34	33.00
	2595.0	38000	V	13.19	10.80	-7.92	16.07	33.00
			H	14.65	10.80	-7.92	17.53	33.00
	2610.0	38150	V	14.39	10.82	-7.94	17.27	33.00
			H	14.91	10.82	-7.94	17.79	33.00
LTE BAND 38 BW: 20M 16QAM RB: 1,99	2580.0	37850	V	14.17	10.82	-7.94	17.05	33.00
			H	14.65	10.83	-7.94	17.54	33.00
	2595.0	38000	V	13.74	10.83	-7.94	16.63	33.00
			H	14.75	10.83	-7.94	17.64	33.00
	2610.0	38150	V	12.14	10.84	-7.96	15.02	33.00
			H	15.32	10.84	-7.96	<b>18.20</b>	33.00

Remark : (1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 41 BW: 5M QPSK RB: 1,0	2498.5	39675	V	12.42	10.70	-7.83	15.29	33.00
			H	8.72	10.70	-7.83	11.59	33.00
	2593.0	40620	V	14.59	10.81	-7.93	17.47	33.00
			H	15.27	10.81	-7.93	18.15	33.00
	2687.5	41565	V	6.11	10.92	-8.03	9.00	33.00
			H	13.84	10.92	-8.03	16.73	33.00
LTE BAND 41 BW: 5M QPSK RB: 1,24	2498.5	39675	V	11.40	10.70	-7.83	14.27	33.00
			H	7.81	10.70	-7.83	10.68	33.00
	2593.0	40620	V	14.66	10.81	-7.93	17.54	33.00
			H	15.57	10.81	-7.94	<b>18.44</b>	33.00
	2687.5	41565	V	6.81	10.93	-8.03	9.71	33.00
			H	13.13	10.93	-8.03	16.03	33.00
LTE BAND 41 BW: 5M 16QAM RB: 1,0	2498.5	39675	V	12.07	10.70	-7.83	14.94	33.00
			H	8.42	10.70	-7.83	11.29	33.00
	2593.0	40620	V	14.54	10.81	-7.93	17.42	33.00
			H	15.44	10.81	-7.93	18.32	33.00
	2687.5	41565	V	6.09	10.92	-8.03	8.98	33.00
			H	13.84	10.92	-8.03	16.73	33.00
LTE BAND 41 BW: 5M 16QAM RB: 1,24	2498.5	39675	V	12.17	10.70	-7.83	15.04	33.00
			H	8.68	10.70	-7.83	11.55	33.00
	2593.0	40620	V	14.65	10.81	-7.93	17.53	33.00
			H	15.70	10.81	-7.93	<b>18.58</b>	33.00
	2687.5	41565	V	6.33	10.93	-8.03	9.23	33.00
			H	10.03	10.93	-8.03	12.93	33.00
<b>Remark :</b>			( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz					

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 41 BW: 10M QPSK RB: 1,0	2501.0	39700	V	18.46	10.70	-7.83	21.33	33.00
			H	12.02	10.70	-7.83	14.89	33.00
	2593.0	40620	V	14.67	10.81	-7.93	17.55	33.00
			H	14.78	10.81	-7.93	17.66	33.00
	2685.0	41540	V	9.29	10.92	-8.02	12.19	33.00
			H	8.42	10.92	-8.02	11.32	33.00
LTE BAND 41 BW: 10M QPSK RB: 1,49	2501.0	39700	V	18.88	10.71	-7.84	<b>21.75</b>	33.00
			H	12.33	10.71	-7.84	15.20	33.00
	2593.0	40620	V	13.81	10.82	-7.94	16.69	33.00
			H	13.96	10.82	-7.94	16.84	33.00
	2685.0	41540	V	10.40	10.93	-8.03	13.30	33.00
			H	6.89	10.93	-8.03	9.79	33.00
LTE BAND 41 BW: 10M 16QAM RB: 1,0	2501.0	39700	V	15.26	10.70	-7.83	18.13	33.00
			H	12.01	10.70	-7.83	14.88	33.00
	2593.0	40620	V	14.60	10.81	-7.93	17.48	33.00
			H	14.89	10.81	-7.93	17.77	33.00
	2685.0	41540	V	9.56	10.92	-8.02	12.46	33.00
			H	8.56	10.92	-8.02	11.46	33.00
LTE BAND 41 BW: 10M 16QAM RB: 1,49	2501.0	39700	V	15.54	10.71	-7.84	<b>18.41</b>	33.00
			H	12.46	10.71	-7.84	15.33	33.00
	2593.0	40620	V	13.89	10.82	-7.94	16.77	33.00
			H	14.11	10.82	-7.94	16.99	33.00
	2685.0	41540	V	8.78	10.93	-8.03	11.68	33.00
			H	6.58	10.93	-8.03	9.48	33.00
<b>Remark :</b>			( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz					

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 41 BW: 15M QPSK RB: 1,0	2503.5	39725	V	15.03	10.70	-7.83	<b>17.90</b>	33.00
			H	12.13	10.70	-7.83	15.00	33.00
	2593.0	40620	V	14.68	10.80	-7.93	17.55	33.00
			H	14.62	10.80	-7.93	17.49	33.00
	2682.5	41515	V	4.94	10.91	-8.02	7.83	33.00
			H	9.31	10.91	-8.02	12.20	33.00
LTE BAND 41 BW: 15M QPSK RB: 1,74	2503.5	39725	V	14.39	10.71	-7.84	17.26	33.00
			H	11.73	10.71	-7.84	14.60	33.00
	2593.0	40620	V	13.79	10.82	-7.94	16.67	33.00
			H	13.68	10.82	-7.94	16.56	33.00
	2682.5	41515	V	7.89	10.93	-8.03	10.79	33.00
			H	6.98	10.93	-8.03	9.88	33.00
LTE BAND 41 BW: 15M 16QAM RB: 1,0	2503.5	39725	V	14.95	10.70	-7.83	17.82	33.00
			H	11.98	10.70	-7.83	14.85	33.00
	2593.0	40620	V	14.88	10.80	-7.92	17.76	33.00
			H	14.87	10.80	-7.93	17.74	33.00
	2682.5	41515	V	5.24	10.91	-8.02	8.13	33.00
			H	9.46	10.91	-8.02	12.35	33.00
LTE BAND 41 BW: 15M 16QAM RB: 1,74	2503.5	39725	V	15.37	10.71	-7.84	<b>18.24</b>	33.00
			H	12.60	10.71	-7.84	15.47	33.00
	2593.0	40620	V	13.79	10.82	-7.94	16.67	33.00
			H	13.88	10.82	-7.94	16.76	33.00
	2682.5	41515	V	7.71	10.93	-8.03	10.61	33.00
			H	6.75	10.93	-8.03	9.65	33.00
<b>Remark</b>								
: ( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz								

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 41 BW: 20M QPSK RB: 1,0	2506.0	39750	V	15.44	10.70	-7.83	<b>18.31</b>	33.00
			H	11.80	10.70	-7.83	14.67	33.00
	2593.0	40620	V	15.01	10.80	-7.92	17.89	33.00
			H	14.66	10.80	-7.92	17.54	33.00
	2680.0	41490	V	4.55	10.91	-8.01	7.45	33.00
			H	13.86	10.91	-8.01	16.76	33.00
LTE BAND 41 BW: 20M QPSK RB: 1,99	2506.0	39750	V	15.41	10.72	-7.85	18.28	33.00
			H	11.72	10.72	-7.85	14.59	33.00
	2593.0	40620	V	13.75	10.82	-7.94	16.63	33.00
			H	14.26	10.82	-7.94	17.14	33.00
	2680.0	41490	V	8.34	10.93	-8.03	11.24	33.00
			H	12.17	10.93	-8.03	15.07	33.00
LTE BAND 41 BW: 20M 16QAM RB: 1,0	2506.0	39750	V	15.38	10.70	-7.83	<b>18.25</b>	33.00
			H	11.84	10.70	-7.83	14.71	33.00
	2593.0	40620	V	14.80	10.80	-7.92	17.68	33.00
			H	14.86	10.80	-7.92	17.74	33.00
	2680.0	41490	V	4.86	10.91	-8.01	7.76	33.00
			H	13.96	10.91	-8.01	16.86	33.00
LTE BAND 41 BW: 20M 16QAM RB: 1,99	2506.0	39750	V	15.13	10.72	-7.85	18.00	33.00
			H	11.71	10.72	-7.85	14.58	33.00
	2593.0	40620	V	13.81	10.82	-7.94	16.69	33.00
			H	14.32	10.82	-7.94	17.20	33.00
	2680.0	41490	V	8.13	10.93	-8.03	11.03	33.00
			H	11.94	10.93	-8.03	14.84	33.00

Remark : ( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 66 BW: 1.4M QPSK RB: 1,0	1710.7	131979	V	21.41	9.00	-6.59	23.82	30.00
			H	23.85	9.00	-6.59	26.26	30.00
	1745.0	132322	V	22.12	9.13	-6.65	24.60	30.00
			H	23.94	9.13	-6.65	<b>26.42</b>	30.00
	1779.3	132665	V	21.20	9.25	-6.71	23.74	30.00
			H	22.65	9.25	-6.71	25.19	30.00
LTE BAND 66 BW: 1.4M QPSK RB: 1,5	1710.7	131979	V	21.34	9.00	-6.59	23.75	30.00
			H	23.16	9.00	-6.59	25.57	30.00
	1745.0	132322	V	21.54	9.13	-6.65	24.02	30.00
			H	23.91	9.13	-6.65	26.39	30.00
	1779.3	132665	V	21.27	9.26	-6.71	23.82	30.00
			H	22.62	9.26	-6.71	25.17	30.00
LTE BAND 66 BW: 1.4M 16QAM RB: 1,0	1710.7	131979	V	21.41	9.00	-6.59	23.82	30.00
			H	23.15	9.00	-6.59	25.56	30.00
	1745.0	132322	V	21.50	9.13	-6.65	23.98	30.00
			H	23.95	9.13	-6.65	<b>26.43</b>	30.00
	1779.3	132665	V	21.23	9.25	-6.71	23.77	30.00
			H	22.68	9.25	-6.71	25.22	30.00
LTE BAND 66 BW: 1.4M 16QAM RB: 1,5	1710.7	131979	V	21.36	9.00	-6.59	23.77	30.00
			H	23.13	9.00	-6.59	25.54	30.00
	1745.0	132322	V	21.53	9.13	-6.65	24.01	30.00
			H	23.86	9.13	-6.65	26.34	30.00
	1779.3	132665	V	21.29	9.25	-6.71	23.83	30.00
			H	22.71	9.25	-6.71	25.25	30.00

**Remark :** ( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 66 BW: 3M QPSK RB: 1,0	1711.5	131987	V	21.63	8.98	-6.58	24.03	30.00
			H	22.58	8.98	-6.58	24.98	30.00
	1745.0	132322	V	21.21	9.12	-6.65	23.68	30.00
			H	23.52	9.12	-6.65	<b>25.99</b>	30.00
	1778.5	132657	V	21.24	9.27	-6.72	23.79	30.00
			H	22.60	9.26	-6.71	25.15	30.00
LTE BAND 66 BW: 3M QPSK RB: 1,14	1711.5	131987	V	21.39	8.99	-6.59	23.79	30.00
			H	22.77	8.99	-6.59	25.17	30.00
	1745.0	132322	V	21.42	9.13	-6.65	23.90	30.00
			H	23.47	9.13	-6.65	25.95	30.00
	1778.5	132657	V	21.01	9.27	-6.72	23.56	30.00
			H	22.35	9.27	-6.72	24.90	30.00
LTE BAND 66 BW: 3M 16QAM RB: 1,0	1711.5	131987	V	21.19	8.98	-6.58	23.59	30.00
			H	22.72	8.98	-6.58	25.12	30.00
	1745.0	132322	V	21.21	9.12	-6.65	23.68	30.00
			H	23.60	9.12	-6.65	<b>26.07</b>	30.00
	1778.5	132657	V	21.21	9.26	-6.71	23.76	30.00
			H	22.61	9.27	-6.71	25.17	30.00
LTE BAND 66 BW: 3M 16QAM RB: 1,14	1711.5	131987	V	21.46	8.99	-6.59	23.86	30.00
			H	22.82	8.99	-6.59	25.22	30.00
	1745.0	132322	V	21.47	9.13	-6.65	23.95	30.00
			H	23.49	9.13	-6.65	25.97	30.00
	1778.5	132657	V	21.09	9.28	-6.72	23.65	30.00
			H	22.43	9.28	-6.72	24.99	30.00

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 66 BW: 5M QPSK RB: 1,0	1712.5	131997	V	21.56	8.98	-6.58	23.96	30.00
			H	23.40	8.98	-6.58	25.80	30.00
	1745.0	132322	V	21.67	9.12	-6.65	24.14	30.00
			H	23.41	9.12	-6.65	<b>25.88</b>	30.00
	1777.5	132647	V	21.20	9.26	-6.71	23.75	30.00
			H	22.62	9.26	-6.71	25.17	30.00
LTE BAND 66 BW: 5M QPSK RB: 1,24	1712.5	131997	V	21.46	9.00	-6.59	23.87	30.00
			H	22.96	9.00	-6.59	25.37	30.00
	1745.0	132322	V	21.37	9.14	-6.65	23.86	30.00
			H	23.34	9.14	-6.65	25.83	30.00
	1777.5	132647	V	20.94	9.27	-6.72	23.49	30.00
			H	22.17	9.27	-6.72	24.72	30.00
LTE BAND 66 BW: 5M 16QAM RB: 1,0	1712.5	131997	V	21.62	8.98	-6.58	24.02	30.00
			H	23.26	8.98	-6.58	25.66	30.00
	1745.0	132322	V	20.93	9.12	-6.65	23.40	30.00
			H	23.47	9.12	-6.65	<b>25.94</b>	30.00
	1777.5	132647	V	21.18	9.26	-6.71	23.73	30.00
			H	22.52	9.26	-6.71	25.07	30.00
LTE BAND 66 BW: 5M 16QAM RB: 1,24	1712.5	131997	V	21.50	9.00	-6.59	23.91	30.00
			H	23.02	9.00	-6.59	25.43	30.00
	1745.0	132322	V	21.54	9.14	-6.65	24.03	30.00
			H	23.34	9.14	-6.65	25.83	30.00
	1777.5	132647	V	21.12	9.27	-6.72	23.67	30.00
			H	22.25	9.27	-6.72	24.80	30.00

Remark : (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 66 BW: 10M QPSK RB: 1,0	1715.0	132022	V	21.37	8.98	-6.58	23.77	30.00
			H	22.98	8.98	-6.58	25.38	30.00
	1745.0	132322	V	20.12	9.11	-6.64	22.59	30.00
			H	23.01	9.11	-6.64	25.48	30.00
	1775.0	132622	V	20.43	9.24	-6.70	22.97	30.00
			H	22.76	9.24	-6.70	25.30	30.00
LTE BAND 66 BW: 10M QPSK RB: 1,49	1715.0	132022	V	20.39	9.02	-6.60	22.81	30.00
			H	22.77	9.02	-6.60	25.19	30.00
	1745.0	132322	V	21.63	9.15	-6.66	24.12	30.00
			H	23.46	9.15	-6.66	<b>25.95</b>	30.00
	1775.0	132622	V	20.94	9.28	-6.72	23.50	30.00
			H	22.55	9.27	-6.72	25.10	30.00
LTE BAND 66 BW: 10M 16QAM RB: 1,0	1715.0	132022	V	21.21	8.98	-6.58	23.61	30.00
			H	23.20	8.98	-6.58	25.60	30.00
	1745.0	132322	V	20.31	9.11	-6.64	22.78	30.00
			H	23.23	9.11	-6.64	25.70	30.00
	1775.0	132622	V	20.48	9.24	-6.70	23.02	30.00
			H	22.97	9.24	-6.70	25.51	30.00
LTE BAND 66 BW: 10M 16QAM RB: 1,49	1715.0	132022	V	20.53	9.02	-6.60	22.95	30.00
			H	22.96	9.02	-6.60	25.38	30.00
	1745.0	132322	V	21.70	9.15	-6.66	24.19	30.00
			H	23.61	9.15	-6.66	<b>26.10</b>	30.00
	1775.0	132622	V	21.12	9.27	-6.72	23.67	30.00
			H	22.72	9.27	-6.72	25.27	30.00

**Remark :** ( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 66 BW: 15M QPSK RB: 1,0	1717.5	132047	V	21.66	8.99	-6.58	24.07	30.00
			H	23.10	8.99	-6.58	<b>25.51</b>	30.00
	1745.0	132322	V	19.85	9.10	-6.64	22.31	30.00
			H	22.47	9.10	-6.64	24.93	30.00
	1772.5	132597	V	20.13	9.22	-6.69	22.66	30.00
			H	21.97	9.22	-6.69	24.50	30.00
LTE BAND 66 BW: 15M QPSK RB: 1,74	1717.5	132047	V	20.02	9.04	-6.61	22.45	30.00
			H	22.28	9.04	-6.61	24.71	30.00
	1745.0	132322	V	19.77	9.16	-6.66	22.27	30.00
			H	21.44	9.16	-6.66	23.94	30.00
	1772.5	132597	V	21.27	9.27	-6.72	23.82	30.00
			H	22.71	9.27	-6.72	25.26	30.00
LTE BAND 66 BW: 15M 16QAM RB: 1,0	1717.5	132047	V	21.42	8.99	-6.58	23.83	30.00
			H	23.26	8.98	-6.58	25.66	30.00
	1745.0	132322	V	19.94	9.10	-6.64	22.40	30.00
			H	22.83	9.10	-6.64	25.29	30.00
	1772.5	132597	V	20.22	9.22	-6.69	22.75	30.00
			H	22.30	9.22	-6.69	24.83	30.00
LTE BAND 66 BW: 15M 16QAM RB: 1,74	1717.5	132047	V	20.07	9.04	-6.61	22.50	30.00
			H	22.41	9.04	-6.61	24.84	30.00
	1745.0	132322	V	21.55	9.16	-6.66	24.05	30.00
			H	23.18	9.16	-6.66	<b>25.68</b>	30.00
	1772.5	132597	V	21.27	9.27	-6.72	23.82	30.00
			H	22.65	9.27	-6.72	25.20	30.00

**Remark**

: (1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 66 BW: 20M QPSK RB: 1,0	1720.0	132072	V	21.86	8.99	-6.58	24.27	30.00
			H	23.26	8.99	-6.58	25.67	30.00
	1745.0	132322	V	18.88	9.09	-6.63	21.34	30.00
			H	21.93	9.09	-6.63	24.39	30.00
	1770.0	132572	V	20.46	9.20	-6.68	22.98	30.00
			H	22.17	9.20	-6.68	24.69	30.00
LTE BAND 66 BW: 20M QPSK RB: 1,99	1720.0	132072	V	19.17	9.06	-6.62	21.61	30.00
			H	21.76	9.06	-6.62	24.20	30.00
	1745.0	132322	V	21.28	9.17	-6.67	23.78	30.00
			H	23.18	9.17	-6.67	<b>25.68</b>	30.00
	1770.0	132572	V	21.19	9.27	-6.72	23.74	30.00
			H	22.71	9.27	-6.72	25.26	30.00
LTE BAND 66 BW: 20M 16QAM RB: 1,0	1720.0	132072	V	21.49	8.99	-6.58	23.90	30.00
			H	23.37	8.99	-6.58	<b>25.78</b>	30.00
	1745.0	132322	V	19.01	9.09	-6.63	21.47	30.00
			H	22.21	9.09	-6.63	24.67	30.00
	1770.0	132572	V	20.74	9.20	-6.68	23.26	30.00
			H	22.43	9.20	-6.68	24.95	30.00
LTE BAND 66 BW: 20M 16QAM RB: 1,99	1720.0	132072	V	19.34	9.06	-6.62	21.78	30.00
			H	21.88	9.06	-6.62	24.32	30.00
	1745.0	132322	V	21.36	9.17	-6.67	23.86	30.00
			H	23.21	9.17	-6.67	25.71	30.00
	1770.0	132572	V	21.19	9.27	-6.72	23.74	30.00
			H	22.71	9.27	-6.72	25.26	30.00

Remark : ( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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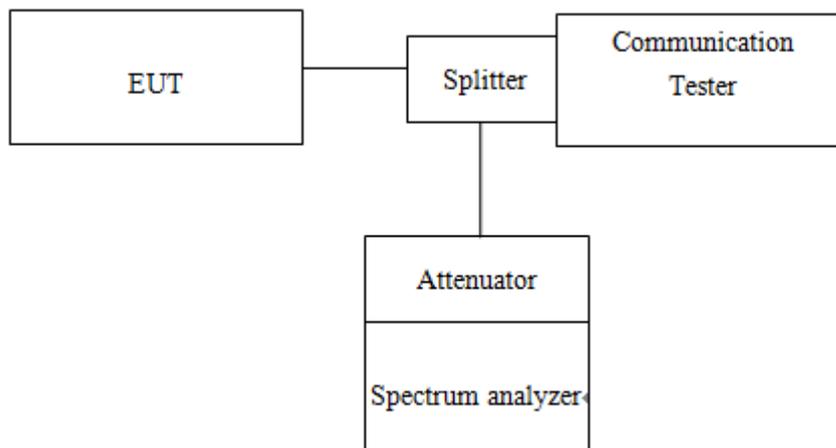
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## 8. OCCUPIED BANDWIDTH MEASUREMENT

### 8.1. 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.

### 8.2. Test Set-up



### 8.3. 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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#### 8.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018
Communication Tester	Anritsu	MT8820C	6201107337	06/11/2017	06/10/2018
Coaxial Cable 30cm	WOKEN	00100A1F1A19 5C	RF01	12/24/2017	12/23/2018
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/13/2017	06/12/2018
DC Block	PASTERNAK	PE8210	RF29	12/24/2017	12/23/2018
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/24/2017	12/23/2018
Attenuator	WOKEN	218FS-10	RF23	12/24/2017	12/23/2018
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018

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### 8.5. 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	4.1486	4.1501	4.1387	4.7110	4.6780	4.6750
1880.00	9400	4.1313	4.1397	4.1198	4.6720	4.6600	4.6960
1907.60	9538	4.1594	4.1333	4.1496	4.6950	4.6860	4.6740

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	4.1242	4.1160	4.1450	4.6950	4.6860	4.7110
1732.60	1413	4.1309	4.1281	4.1320	4.6760	4.6770	4.6750
1752.60	1513	4.1248	4.1327	4.1303	4.6830	4.6800	4.6560

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	4.1317	4.1306	4.1344	4.6880	4.6830	4.7010
836.60	4183	4.1235	4.1268	4.1178	4.6790	4.7190	4.6910
846.60	4233	4.1273	4.1214	4.1242	4.6690	4.6790	4.6620

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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	1.0934	1.0932	1.2421	<b>1.2413</b>
1880.0	18900	1.0930	1.0946	<b>1.2427</b>	1.2382
1909.3	19193	<b>1.0942</b>	<b>1.0963</b>	1.2409	1.2410

LTE BAND 2 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1851.5	18615	2.6971	<b>2.6961</b>	<b>2.9987</b>	2.9943
1880.0	18900	2.6975	2.6935	2.9871	<b>3.0119</b>
1908.5	19185	<b>2.6976</b>	2.6955	2.9862	3.0091

LTE BAND 2 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1852.5	18625	4.4926	<b>4.4980</b>	4.9570	<b>4.9614</b>
1880.0	18900	4.4918	4.4959	<b>4.9941</b>	4.9527
1907.5	19175	<b>4.5028</b>	4.4959	4.9792	4.9496

LTE BAND 2 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1855.0	18650	<b>8.9951</b>	8.9523	9.781	9.754
1880.0	18900	8.9870	<b>8.9584</b>	<b>9.836</b>	9.765
1905.0	19150	8.9650	8.9381	9.791	<b>9.765</b>

LTE BAND 2 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1857.5	18675	<b>13.493</b>	<b>13.494</b>	14.687	<b>14.757</b>
1880.0	18900	13.477	13.450	<b>14.751</b>	14.669
1902.5	19125	13.472	13.450	14.700	14.639

LTE BAND 2 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1860.0	18700	<b>17.982</b>	<b>18.014</b>	19.453	19.386
1880.0	18900	17.937	17.977	<b>19.627</b>	19.472
1900.0	19100	17.945	17.948	19.418	<b>19.508</b>

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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	1.0930	1.0928	1.2361	1.2421
1732.5	20175	1.0942	1.0982	1.2314	1.2400
1754.3	20393	1.0915	1.0949	1.2358	1.2380

LTE BAND 4 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1711.5	19965	2.6958	2.6987	2.9938	3.0044
1732.5	20175	2.7000	2.7000	3.0172	3.0148
1753.5	20385	2.6921	2.6968	2.9895	2.9992

LTE BAND 4 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1712.5	19957	4.4933	4.4889	4.9747	4.9662
1732.5	20175	4.5072	4.5001	4.9673	4.9920
1752.5	20375	4.5003	4.4964	4.9754	4.9586

LTE BAND 4 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1715.0	20000	8.9740	8.9564	9.890	9.738
1732.5	20175	8.9909	8.9591	9.802	9.790
1750.0	20350	8.9887	8.9612	9.768	9.740

LTE BAND 4 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1717.5	20025	13.479	13.467	14.776	14.603
1732.5	20175	13.527	13.502	14.801	14.869
1747.5	20325	13.477	13.465	14.746	14.653

LTE BAND 4 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1720.0	20050	17.893	17.928	19.354	19.984
1732.5	20175	18.086	18.165	26.603	39.192
1745.0	20300	17.952	18.008	19.516	19.518

LTE BAND 5 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
824.7	20407	1.0940	1.0946	1.2390	1.2449
836.5	20525	1.0950	1.0958	1.2407	1.2517
848.3	20643	1.0964	1.0949	1.2493	1.2448

LTE BAND 5 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
825.5	20415	2.6996	2.6971	2.9991	3.0120
836.5	20525	2.6954	2.7007	3.0398	2.9992
847.5	20635	2.6995	2.6945	3.0346	3.0000

LTE BAND 5 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
826.5	20425	4.4983	4.5025	4.9770	5.0029
836.5	20525	4.5016	4.5044	5.0067	4.9556
846.5	20625	4.5019	4.4916	4.9827	4.9087

LTE BAND 5 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
829.0	20450	8.9877	8.9731	9.878	9.755
836.5	20525	9.0108	8.9564	9.860	9.743
844.0	20600	8.9763	8.9653	9.858	9.782

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LTE BAND 7 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2502.5	20775	4.4996	4.4982	4.9655	5.0028
2535.0	21100	4.4887	4.4842	4.9794	4.9410
2567.5	21425	4.4921	4.4962	4.9669	4.9656

LTE BAND 7 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2505.0	20800	9.0082	8.9540	9.819	9.753
2535.0	21100	8.9872	8.9725	9.824	9.801
2565.0	21400	8.9607	8.9571	9.793	9.758

LTE BAND 7 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2507.5	20825	13.483	13.463	14.642	14.731
2535.0	21100	13.481	13.501	14.659	14.690
2562.5	21375	13.507	13.459	14.628	14.592

LTE BAND 7 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2510.0	20850	17.928	17.952	19.554	19.551
2535.0	21100	17.975	17.989	19.586	19.574
2560.0	21350	17.933	17.932	19.460	19.455

LTE BAND 12 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
699.7	23017	1.0900	1.0950	1.2394	1.2357
707.5	23095	1.0943	1.0933	1.2403	1.2300
715.3	23173	1.0922	1.0953	1.2369	1.2285

LTE BAND 12 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
700.5	23025	2.6939	2.6999	2.9927	3.0134
707.5	23095	2.6983	2.6945	2.9678	3.0213
714.5	23165	2.6946	2.6981	2.9623	2.9903

LTE BAND 12 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
701.5	23035	4.5045	4.4916	5.1738	4.9328
707.5	23095	4.4979	4.4964	4.9743	4.9401
713.5	23155	4.4940	4.4963	4.9690	5.0009

LTE BAND 12 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
704.0	23060	8.9864	8.9554	9.856	9.756
707.5	23095	8.9746	8.9621	9.777	9.809
711.0	23130	9.0280	8.9849	9.836	9.773

LTE BAND 13 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
779.5	23205	4.4941	4.4951	4.9983	4.9723
782.0	23230	4.4908	4.4867	4.9793	4.9183
784.5	23255	4.5070	4.4930	4.9747	4.9478

LTE BAND 13 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
782.0	23230	8.961	8.938	9.781	9.751

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LTE BAND 17 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
706.5	23755	4.4998	4.4982	4.9944	4.9904
710.0	23790	4.4992	4.5035	5.0078	4.9650
713.5	23825	4.5018	4.5009	4.9829	4.9084

LTE BAND 17 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
709.0	23780	8.9996	8.9972	9.841	9.824
710.0	23790	9.0072	9.0128	9.816	9.841
711.0	23780	9.0164	8.9986	9.906	9.839

LTE BAND 25 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1850.7	26047	1.0939	1.0949	1.236	1.243
1882.5	26365	1.0913	1.0943	1.241	1.233
1914.3	26683	1.0943	1.0919	1.235	1.237

LTE BAND 25 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1851.5	26055	2.6931	2.6980	2.983	2.991
1882.5	26365	2.6983	2.6983	3.005	2.998
1913.5	26675	2.6969	2.6930	2.997	2.990

LTE BAND 25 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1852.5	26065	4.4953	4.4969	5.019	4.931
1882.5	26365	4.4961	4.4968	5.009	4.991
1912.5	26665	4.4956	4.4992	4.963	4.899

LTE BAND 25 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1855.0	26090	8.9967	8.9586	9.826	9.736
1882.5	26365	8.9684	8.9663	9.771	9.775
1910.0	26640	8.9761	8.9602	9.730	9.719

LTE BAND 25 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1857.5	26115	13.495	13.485	14.69	14.56
1882.5	26365	13.484	13.468	14.64	14.63
1907.5	26615	13.461	13.467	14.69	14.67

LTE BAND 25 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1860.0	26140	17.9460	17.9570	19.600	19.340
1882.5	26365	17.9590	17.9410	19.640	19.540
1905.0	26590	17.9250	17.9070	19.320	19.450

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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	1.0929	1.0956	1.2430	1.2340
831.5	26865	1.0928	1.0931	1.2400	1.2420
848.3	27033	1.0896	1.0956	1.2360	1.2320

LTE BAND 26 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
815.5	26705	2.6964	2.6945	2.9840	2.9730
831.5	26865	2.6944	2.6986	2.9780	2.9850
847.5	27025	2.6956	2.6977	3.0050	2.9940

LTE BAND 26 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
816.5	26715	4.4881	4.4871	4.9850	4.9850
831.5	26865	4.4915	4.4969	4.9670	4.9770
846.5	27015	4.4988	4.4925	4.9550	4.9330

LTE BAND 26 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
820.0	26750	9.0234	8.9761	9.751	9.754
831.5	26865	8.9842	8.9512	9.743	9.822
844.0	26990	8.9843	8.9433	9.839	9.724

LTE BAND 26 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
822.5	26775	13.508	13.488	14.790	14.610
831.5	26865	13.473	13.455	14.660	14.580
841.5	26965	13.483	13.450	14.750	14.760

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	1.0937	1.0937	1.2390	1.2250
819.0	26740	1.0939	1.0909	1.2390	1.2340
823.3	26783	1.0932	1.0902	1.2360	1.2310

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	2.6957	2.6968	2.9660	2.9990
819.0	26740	2.6947	2.6968	2.9880	3.0060
822.5	26775	2.6966	2.7003	2.9690	3.0040

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	4.4917	4.4834	4.9880	4.9690
819.0	26740	4.4953	4.4988	4.9750	4.9890
821.5	26765	4.4984	4.4965	4.9620	4.9810

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	9.0099	8.9583	9.831	9.756

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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	4.5002	4.4953	4.9960	5.0090
2310.0	27710	4.4913	4.4964	4.9790	4.9900
2312.5	27735	4.4981	4.5022	4.9610	4.9280

LTE BAND 30 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	16QAM	QPSK
2310.0	27710	8.9815	8.9557	9.823	9.785

LTE BAND 38 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2572.5	37775	4.5008	4.4982	5.1530	4.9416
2595.0	38000	4.5033	4.4948	5.1708	5.0799
2617.5	38225	4.5114	4.5002	5.2825	4.9314

LTE BAND 38 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2575.0	37800	8.9791	8.9694	9.787	9.695
2595.0	38000	8.9816	8.9674	9.706	9.850
2615.0	38200	8.9867	8.9583	9.715	9.893

LTE BAND 38 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2577.5	37825	13.457	13.480	14.590	14.834
2595.0	38000	13.468	13.476	14.663	14.633
2612.5	38175	13.466	13.463	14.744	14.538

LTE BAND 38 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2580.0	37850	17.967	17.919	20.415	19.354
2595.0	38000	17.959	17.987	19.472	19.561
2610.0	38150	17.924	17.893	19.733	19.579

LTE BAND 41 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2498.5	39675	4.4995	4.4869	5.0930	4.9660
2593.0	40620	4.5037	4.4965	5.1090	4.9520
2687.5	41565	4.9311	5.2780	10.0000	10.0000

LTE BAND 41 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2501.0	39700	8.9700	8.9593	9.698	9.993
2593.0	40620	8.9592	8.9649	9.839	9.828
2685.0	41540	8.9537	8.9504	9.815	9.922

LTE BAND 41 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2503.5	39725	13.484	13.467	14.850	14.530
2593.0	40620	13.499	13.488	14.610	14.700
2682.5	41515	13.493	13.490	14.800	14.750

LTE BAND 41 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2506.0	39750	17.938	17.901	20.450	19.520
2593.0	40620	17.928	17.944	19.900	19.360
2680.0	41490	17.967	17.967	20.210	19.510

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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	1.0919	1.0930	1.2340	1.2300
1745.0	132322	1.0936	1.0954	1.2340	1.2320
1779.3	132665	1.0948	1.0949	1.2400	1.2380

LTE BAND 66 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1711.5	131987	2.6937	2.6992	2.9930	3.0050
1745.0	132322	2.6923	2.6994	2.9930	2.9840
1778.5	132657	2.7018	2.7008	2.9890	3.0140

LTE BAND 66 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1712.5	131997	4.4933	4.4982	4.9790	4.9660
1745.0	132322	4.4938	4.4944	4.9820	4.9800
1777.5	132647	4.5022	4.4960	4.9830	4.9670

LTE BAND 66 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1715.0	132022	8.9757	8.9674	9.7520	9.7710
1745.0	132322	9.0038	8.9625	9.8560	9.7400
1775.0	132622	9.0055	8.9675	9.8120	9.8330

LTE BAND 66 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1717.5	132047	13.5080	13.4670	14.6600	14.6300
1745.0	132322	13.4940	13.4790	14.7500	14.6900
1772.5	132597	13.4960	13.4750	14.8400	14.7200

LTE BAND 66 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1720.0	132072	17.9430	17.9430	19.5500	19.4700
1745.0	132322	17.9630	17.9540	19.6500	19.4400
1770.0	132572	18.0010	18.0310	19.6700	19.7600

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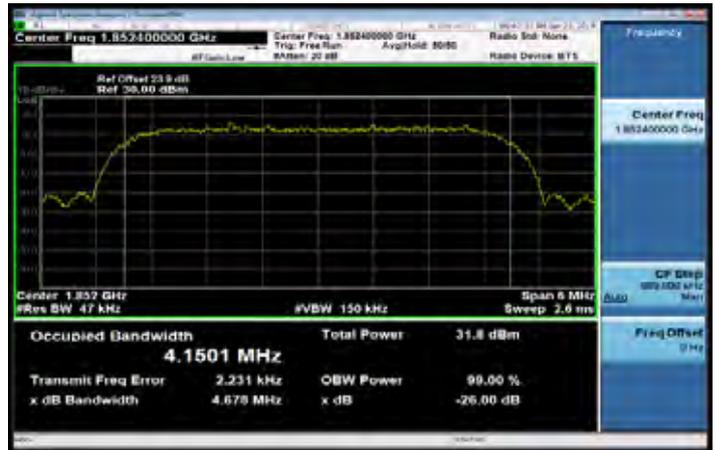
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WCDMA\_B2\_LowCH9262-1852.4



HSDPA\_B2\_LowCH9262-1852.4



WCDMA\_B2\_MidCH9400-1880



HSDPA\_B2\_MidCH9400-1880



WCDMA\_B2\_HighCH9538-1907.6



HSDPA\_B2\_HighCH9538-1907.6



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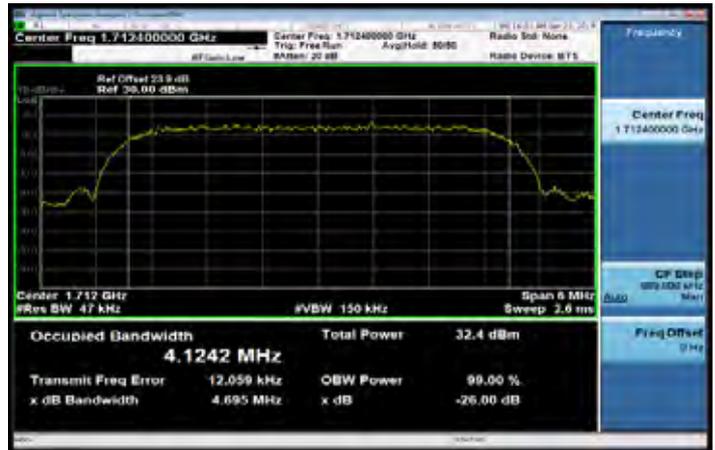
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HSUPA\_B2\_LowCH9262-1852.4



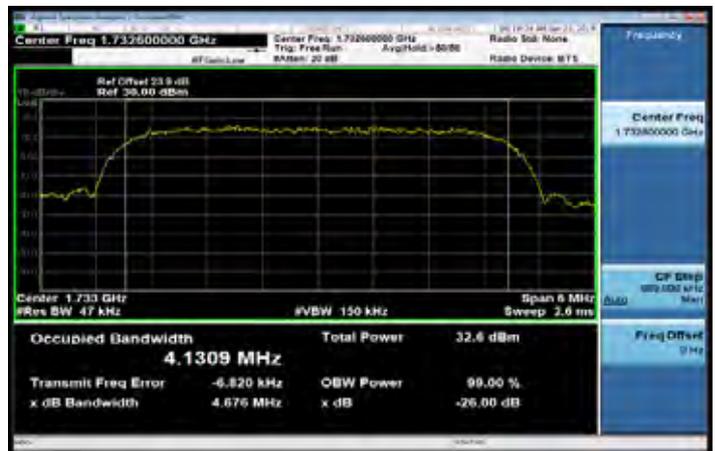
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HSUPA\_B2\_MidCH9400-1880



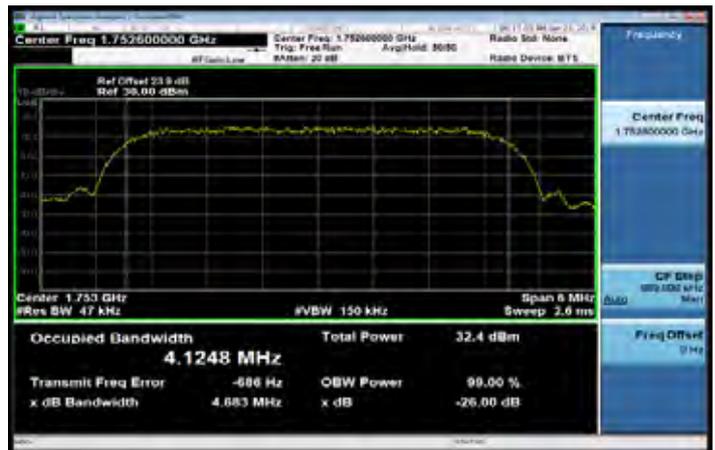
WCDMA\_B4\_MidCH1413-1732.6



HSUPA\_B2\_HighCH9538-1907.6



WCDMA\_B4\_HighCH1513-1752.6



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HSDPA\_B4\_LowCH1312-1712.4



HSUPA\_B4\_LowCH1312-1712.4



HSDPA\_B4\_MidCH1413-1732.6



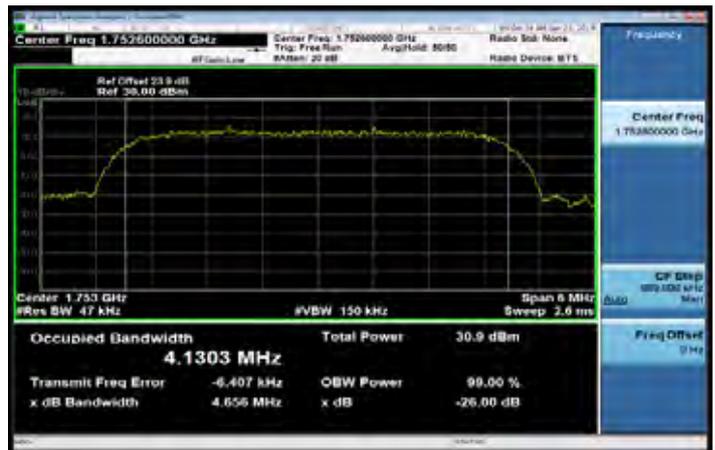
HSUPA\_B4\_MidCH1413-1732.6



HSDPA\_B4\_HighCH1513-1752.6



HSUPA\_B4\_HighCH1513-1752.6



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WCDMA\_B5\_LowCH4132-826.4



HSDPA\_B5\_LowCH4132-826.4



WCDMA\_B5\_MidCH4183-836.6



HSDPA\_B5\_MidCH4183-836.6



WCDMA\_B5\_HighCH4233-846.6



HSDPA\_B5\_HighCH4233-846.6



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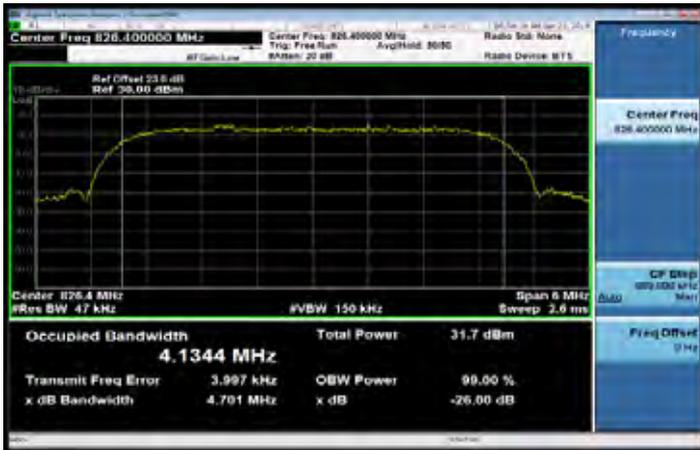
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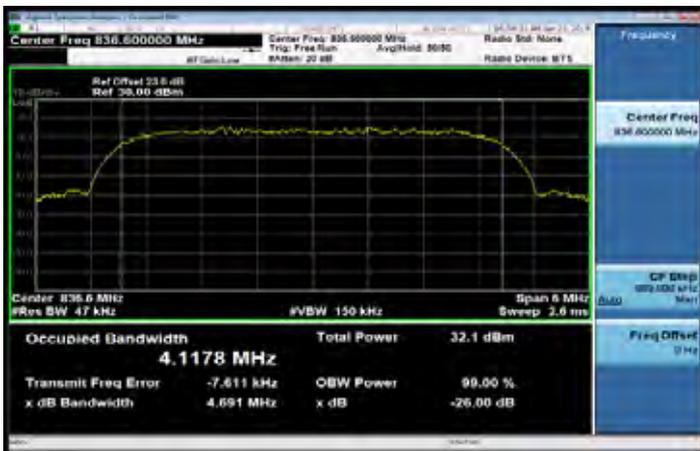
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HSUPA\_B5\_LowCH4132-826.4



HSUPA\_B5\_MidCH4183-836.6



HSUPA\_B5\_HighCH4233-846.6



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Band2\_1\_4MHz\_QPSK\_6\_0\_LowCH18607-1850.7



Band2\_1\_4MHz\_16QAM\_6\_0\_LowCH18607-1850.7



Band2\_1\_4MHz\_QPSK\_6\_0\_MidCH18900-1880



Band2\_1\_4MHz\_16QAM\_6\_0\_MidCH18900-1880



Band2\_1\_4MHz\_QPSK\_6\_0\_HighCH19193-1909.3



Band2\_1\_4MHz\_16QAM\_6\_0\_HighCH19193-1909.3



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Band2\_3MHz\_QPSK\_15\_0\_LowCH18615-1851.5



Band2\_3MHz\_16QAM\_15\_0\_LowCH18615-1851.5



Band2\_3MHz\_QPSK\_15\_0\_MidCH18900-1880



Band2\_3MHz\_16QAM\_15\_0\_MidCH18900-1880



Band2\_3MHz\_QPSK\_15\_0\_HighCH19185-1908.5



Band2\_3MHz\_16QAM\_15\_0\_HighCH19185-1908.5



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Band2\_5MHz\_QPSK\_25\_0\_LowCH18625-1852.5



Band2\_5MHz\_16QAM\_25\_0\_LowCH18625-1852.5



Band2\_5MHz\_QPSK\_25\_0\_MidCH18900-1880



Band2\_5MHz\_16QAM\_25\_0\_MidCH18900-1880



Band2\_5MHz\_QPSK\_25\_0\_HighCH19175-1907.5



Band2\_5MHz\_16QAM\_25\_0\_HighCH19175-1907.5



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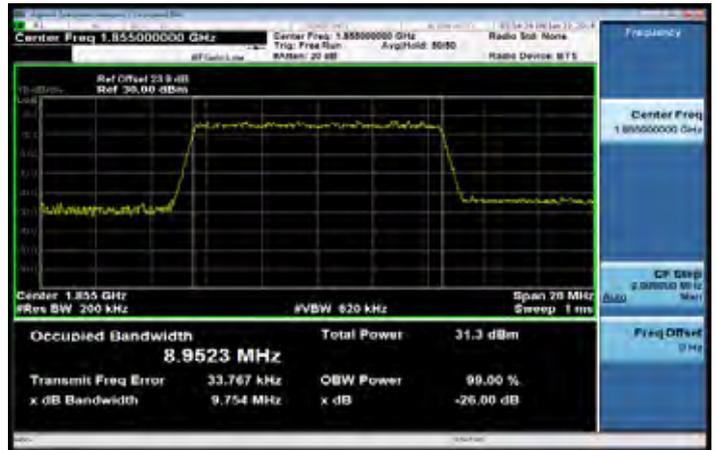
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Band2\_10MHz\_QPSK\_50\_0\_LowCH18650-1855



Band2\_10MHz\_16QAM\_50\_0\_LowCH18650-1855



Band2\_10MHz\_QPSK\_50\_0\_MidCH18900-1880



Band2\_10MHz\_16QAM\_50\_0\_MidCH18900-1880



Band2\_10MHz\_QPSK\_50\_0\_HighCH19150-1905



Band2\_10MHz\_16QAM\_50\_0\_HighCH19150-1905



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Band2\_15MHz\_QPSK\_75\_0\_LowCH18675-1857.5



Band2\_15MHz\_16QAM\_75\_0\_LowCH18675-1857.5



Band2\_15MHz\_QPSK\_75\_0\_MidCH18900-1880



Band2\_15MHz\_16QAM\_75\_0\_MidCH18900-1880



Band2\_15MHz\_QPSK\_75\_0\_HighCH19125-1902.5



Band2\_15MHz\_16QAM\_75\_0\_HighCH19125-1902.5



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Band2\_20MHz\_QPSK\_100\_0\_LowCH18700



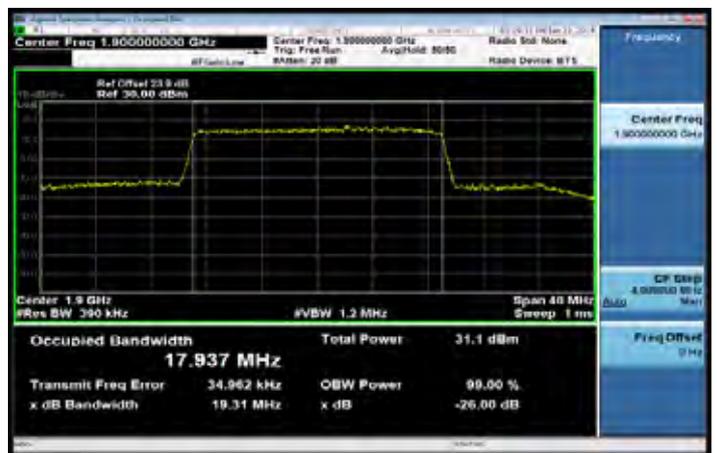
Band2\_20MHz\_QPSK\_100\_0\_MidCH18900-1880



Band2\_20MHz\_QPSK\_100\_0\_LowCH18700-1860



Band2\_20MHz\_QPSK\_100\_0\_HighCH19100



Band2\_20MHz\_QPSK\_100\_0\_MidCH18900



Band2\_20MHz\_QPSK\_100\_0\_HighCH19100-1900



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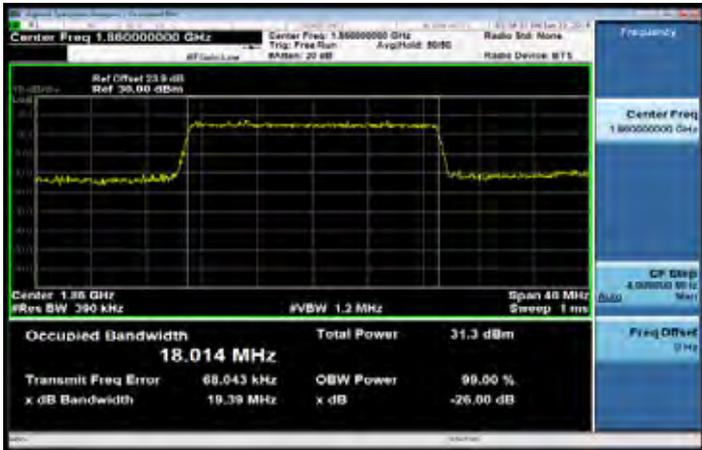
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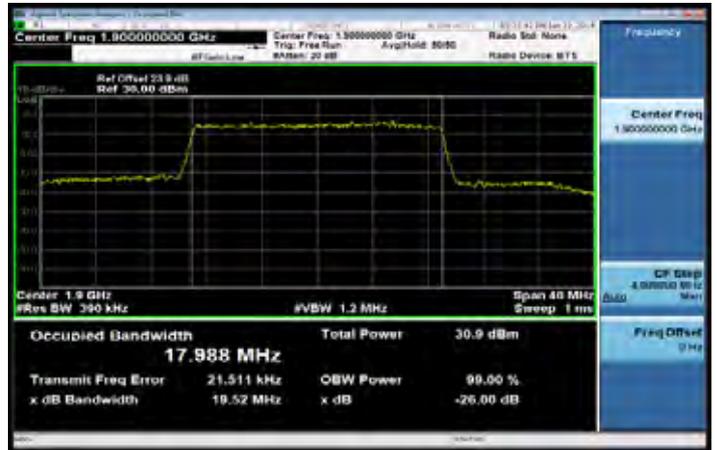
Band2\_20MHz\_16QAM\_100\_0\_MidCH18900-1880



Band2\_20MHz\_16QAM\_100\_0\_LowCH18700-1860



Band2\_20MHz\_16QAM\_100\_0\_HighCH19100



Band2\_20MHz\_16QAM\_100\_0\_MidCH18900



Band2\_20MHz\_16QAM\_100\_0\_HighCH19100-1900



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Band4\_1\_4MHz\_QPSK\_6\_0\_LowCH19957-1710.7



Band4\_1\_4MHz\_16QAM\_6\_0\_LowCH19957-1710.7



Band4\_1\_4MHz\_QPSK\_6\_0\_MidCH20175-1732.5



Band4\_1\_4MHz\_16QAM\_6\_0\_MidCH20175-1732.5



Band4\_1\_4MHz\_QPSK\_6\_0\_HighCH20393-1754.3



Band4\_1\_4MHz\_16QAM\_6\_0\_HighCH20393-1754.3



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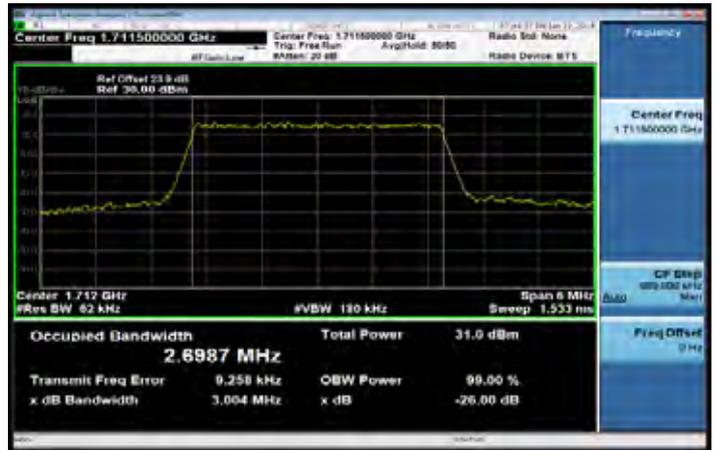
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Band4\_3MHz\_QPSK\_15\_0\_LowCH19965-1711.5



Band4\_3MHz\_16QAM\_15\_0\_LowCH19965-1711.5



Band4\_3MHz\_QPSK\_15\_0\_MidCH20175-1732.5



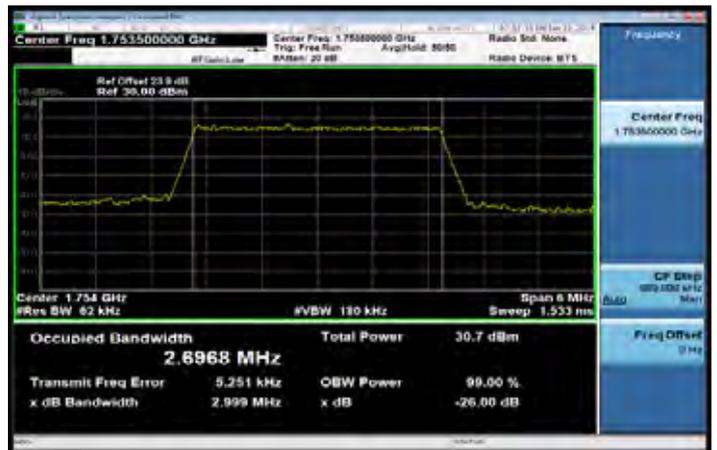
Band4\_3MHz\_16QAM\_15\_0\_MidCH20175-1732.5



Band4\_3MHz\_QPSK\_15\_0\_HighCH20385-1753.5



Band4\_3MHz\_16QAM\_15\_0\_HighCH20385-1753.5



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Band4\_5MHz\_QPSK\_25\_0\_LowCH19975-1712.5



Band4\_5MHz\_16QAM\_25\_0\_LowCH19975-1712.5



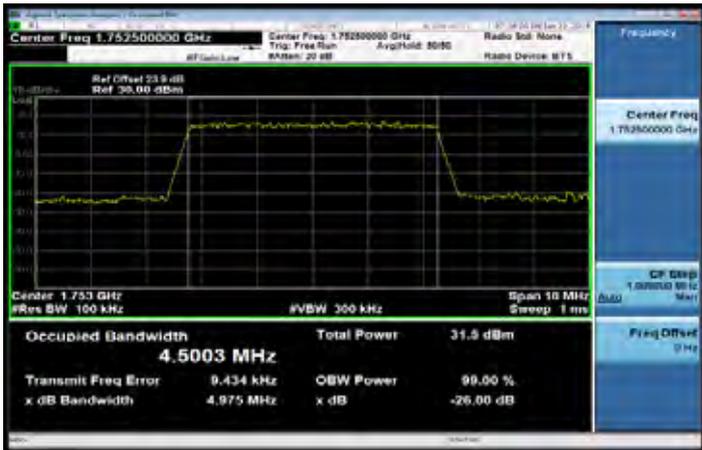
Band4\_5MHz\_QPSK\_25\_0\_MidCH20175-1732.5



Band4\_5MHz\_16QAM\_25\_0\_MidCH20175-1732.5



Band4\_5MHz\_QPSK\_25\_0\_HighCH20375-1752.5



Band4\_5MHz\_16QAM\_25\_0\_HighCH20375-1752.5



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Band4\_10MHz\_QPSK\_50\_0\_LowCH20000-1715



Band4\_10MHz\_16QAM\_50\_0\_LowCH20000-1715



Band4\_10MHz\_QPSK\_50\_0\_MidCH20175-1732.5



Band4\_10MHz\_16QAM\_50\_0\_MidCH20175-1732.5



Band4\_10MHz\_QPSK\_50\_0\_HighCH20350-1750



Band4\_10MHz\_16QAM\_50\_0\_HighCH20350-1750



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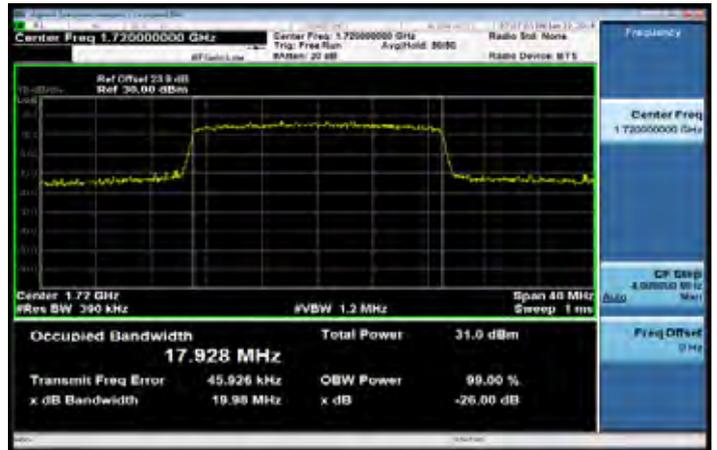
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Band4\_20MHz\_QPSK\_100\_0\_LowCH20050-1720



Band4\_20MHz\_16QAM\_100\_0\_LowCH20050-1720



Band4\_20MHz\_QPSK\_100\_0\_MidCH20175-1732.5



Band4\_20MHz\_16QAM\_100\_0\_MidCH20175-1732.5



Band4\_20MHz\_QPSK\_100\_0\_HighCH20300-1745



Band4\_20MHz\_16QAM\_100\_0\_HighCH20300-1745



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Band5\_1\_4MHz\_QPSK\_6\_0\_LowCH20407-824.7



Band5\_1\_4MHz\_16QAM\_6\_0\_LowCH20407-824.7



Band5\_1\_4MHz\_QPSK\_6\_0\_MidCH20525-836.5



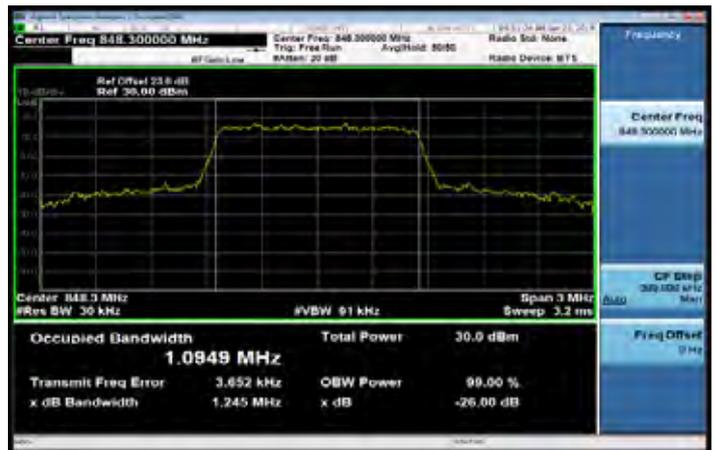
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Band5\_1\_4MHz\_QPSK\_6\_0\_HighCH20643-848.3



Band5\_1\_4MHz\_16QAM\_6\_0\_HighCH20643-848.3



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Band5\_3MHz\_QPSK\_15\_0\_LowCH20415-825.5



Band5\_3MHz\_16QAM\_15\_0\_LowCH20415-825.5



Band5\_3MHz\_QPSK\_15\_0\_MidCH20525-836.5



Band5\_3MHz\_16QAM\_15\_0\_MidCH20525-836.5



Band5\_3MHz\_QPSK\_15\_0\_HighCH20635-847.5



Band5\_3MHz\_16QAM\_15\_0\_HighCH20635-847.5



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Band5\_5MHz\_QPSK\_25\_0\_LowCH20425-826.5



Band5\_5MHz\_16QAM\_25\_0\_LowCH20425-826.5



Band5\_5MHz\_QPSK\_25\_0\_MidCH20525-836.5



Band5\_5MHz\_16QAM\_25\_0\_MidCH20525-836.5



Band5\_5MHz\_QPSK\_25\_0\_HighCH20625-846.5



Band5\_5MHz\_16QAM\_25\_0\_HighCH20625-846.5



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Band5\_10MHz\_QPSK\_50\_0\_LowCH20450-829



Band5\_10MHz\_16QAM\_50\_0\_LowCH20450-829



Band5\_10MHz\_QPSK\_50\_0\_MidCH20525-836.5



Band5\_10MHz\_16QAM\_50\_0\_MidCH20525-836.5



Band5\_10MHz\_QPSK\_50\_0\_HighCH20600-844



Band5\_10MHz\_16QAM\_50\_0\_HighCH20600-844



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Band7\_5MHz\_QPSK\_25\_0\_LowCH20775-2502.5



Band7\_5MHz\_16QAM\_25\_0\_LowCH20775-2502.5



Band7\_5MHz\_QPSK\_25\_0\_MidCH21100-2535



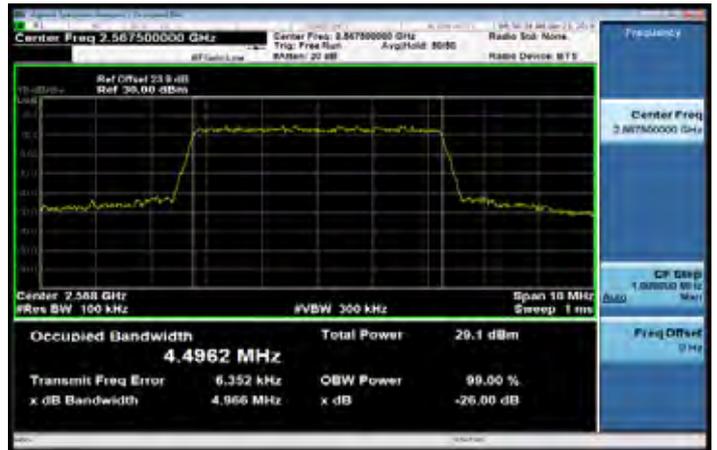
Band7\_5MHz\_16QAM\_25\_0\_MidCH21100-2535



Band7\_5MHz\_QPSK\_25\_0\_HighCH21425-2567.5



Band7\_5MHz\_16QAM\_25\_0\_HighCH21425-2567.5



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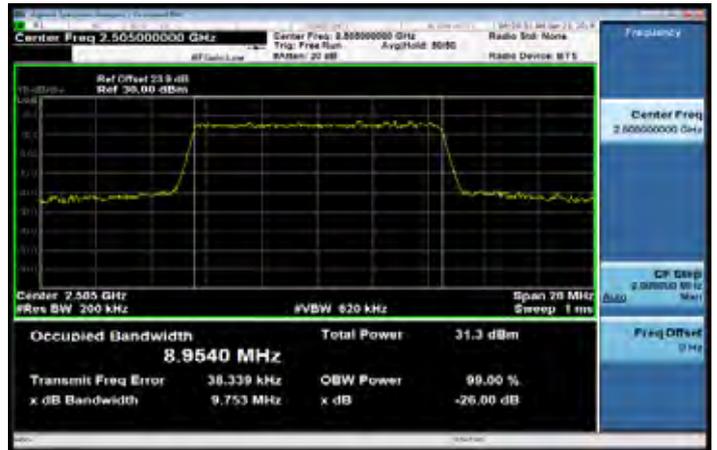
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Band7\_10MHz\_QPSK\_50\_0\_LowCH20800-2505



Band7\_10MHz\_16QAM\_50\_0\_LowCH20800-2505



Band7\_10MHz\_QPSK\_50\_0\_MidCH21100-2535



Band7\_10MHz\_16QAM\_50\_0\_MidCH21100-2535



Band7\_10MHz\_QPSK\_50\_0\_HighCH21400-2565



Band7\_10MHz\_16QAM\_50\_0\_HighCH21400-2565



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Band7\_20MHz\_QPSK\_100\_0\_LowCH20850-2510



Band7\_20MHz\_16QAM\_100\_0\_LowCH20850-2510



Band7\_20MHz\_QPSK\_100\_0\_MidCH21100-2535



Band7\_20MHz\_16QAM\_100\_0\_MidCH21100-2535



Band7\_20MHz\_QPSK\_100\_0\_HighCH21350-2560



Band7\_20MHz\_16QAM\_100\_0\_HighCH21350-2560



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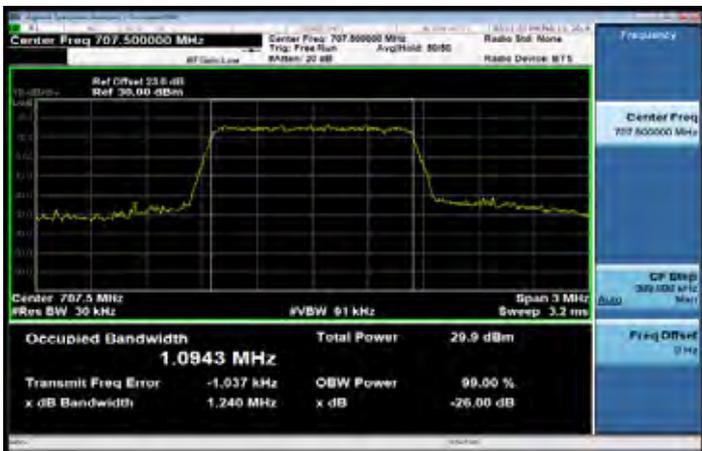
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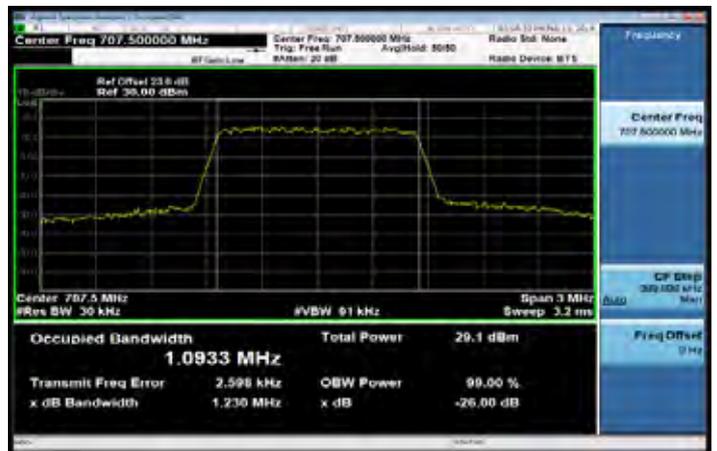
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Band12\_1\_4MHz\_QPSK\_6\_0\_MidCH23095-707.5



Band12\_1\_4MHz\_16QAM\_6\_0\_MidCH23095-707.5



Band12\_1\_4MHz\_QPSK\_6\_0\_HighCH23173-715.3



Band12\_1\_4MHz\_16QAM\_6\_0\_HighCH23173-715.3



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Band12\_3MHz\_QPSK\_15\_0\_LowCH23025-700.5



Band12\_3MHz\_16QAM\_15\_0\_LowCH23025-700.5



Band12\_3MHz\_QPSK\_15\_0\_MidCH23095-707.5



Band12\_3MHz\_16QAM\_15\_0\_MidCH23095-707.5



Band12\_3MHz\_QPSK\_15\_0\_HighCH23165-714.5



Band12\_3MHz\_16QAM\_15\_0\_HighCH23165-714.5



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Band12\_5MHz\_QPSK\_25\_0\_LowCH23035-701.5



Band12\_5MHz\_16QAM\_25\_0\_LowCH23035-701.5



Band12\_5MHz\_QPSK\_25\_0\_MidCH23095-707.5



Band12\_5MHz\_16QAM\_25\_0\_MidCH23095-707.5



Band12\_5MHz\_QPSK\_25\_0\_HighCH23155-713.5



Band12\_5MHz\_16QAM\_25\_0\_HighCH23155-713.5



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Band12\_10MHz\_16QAM\_50\_0\_LowCH23060-704



Band12\_10MHz\_QPSK\_50\_0\_MidCH23095-707.5



Band12\_10MHz\_16QAM\_50\_0\_MidCH23095-707.5



Band12\_10MHz\_QPSK\_50\_0\_HighCH23130-711



Band12\_10MHz\_16QAM\_50\_0\_HighCH23130-711



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Band13\_5MHz\_16QAM\_25\_0\_LowCH23205-779.5



Band13\_5MHz\_QPSK\_25\_0\_MidCH23230-782



Band13\_5MHz\_16QAM\_25\_0\_MidCH23230-782



Band13\_5MHz\_QPSK\_25\_0\_HighCH23255-784.5



Band13\_5MHz\_16QAM\_25\_0\_HighCH23255-784.5



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Band13\_10MHz\_16QAM\_50\_0\_MidCH23230-782



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Band17\_5MHz\_16QAM\_25\_0\_LowCH23755-706.5



Band17\_5MHz\_QPSK\_25\_0\_MidCH23790-710



Band17\_5MHz\_16QAM\_25\_0\_MidCH23790-710



Band17\_5MHz\_QPSK\_25\_0\_HighCH23825-713.5



Band17\_5MHz\_16QAM\_25\_0\_HighCH23825-713.5



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Band17\_10MHz\_16QAM\_50\_0\_MidCH23790-710



Band17\_10MHz\_QPSK\_50\_0\_HighCH23800-711



Band17\_10MHz\_16QAM\_50\_0\_HighCH23800-711



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Band25\_1\_4MHz\_16QAM\_6\_0\_LowCH26047-1850.7



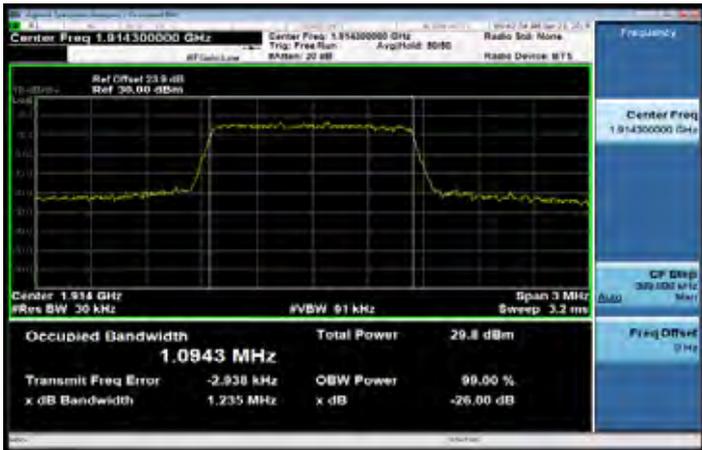
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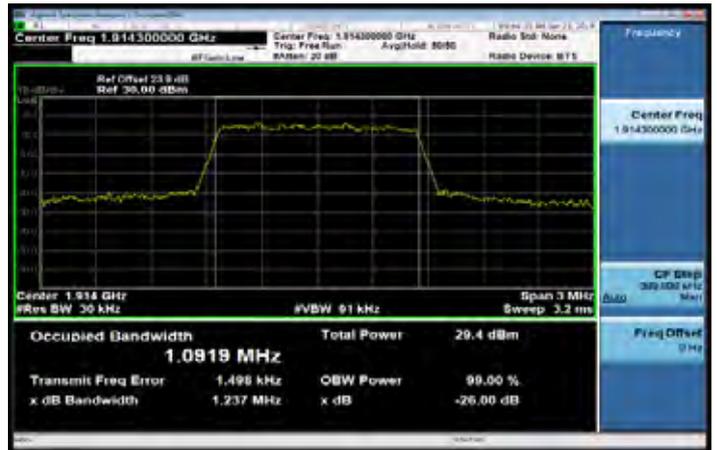
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Band25\_1\_4MHz\_QPSK\_6\_0\_HighCH26683-1914.3



Band25\_1\_4MHz\_16QAM\_6\_0\_HighCH26683-1914.3



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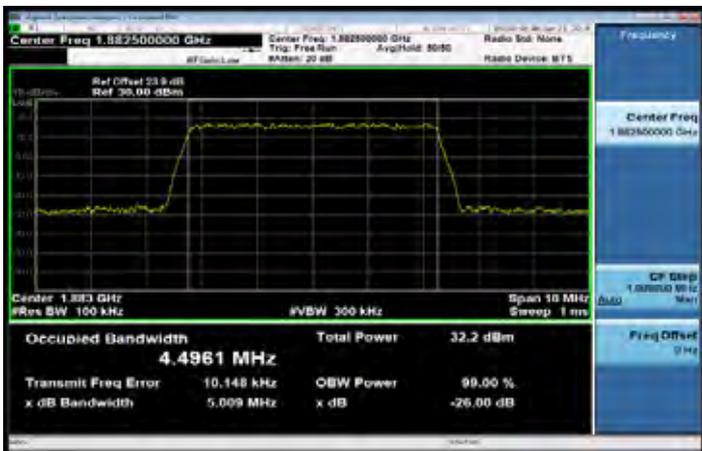
Band25\_5MHz\_QPSK\_25\_0\_LowCH26065-1852.5



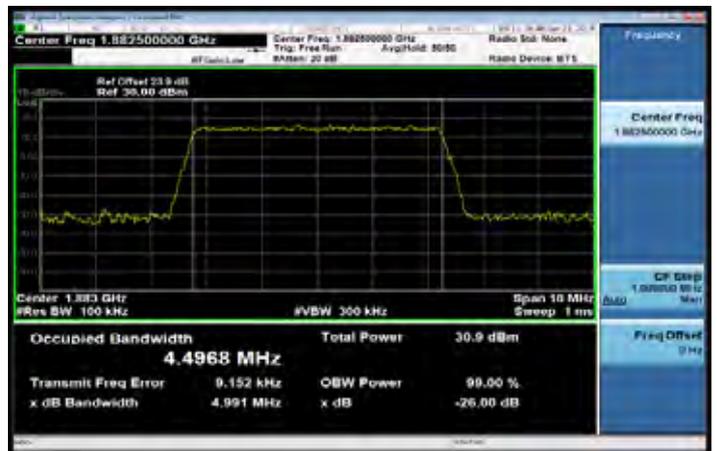
Band25\_5MHz\_16QAM\_25\_0\_LowCH26065-1852.5



Band25\_5MHz\_QPSK\_25\_0\_MidCH26365-1882.5



Band25\_5MHz\_16QAM\_25\_0\_MidCH26365-1882.5



Band25\_5MHz\_QPSK\_25\_0\_HighCH26665-1912.5



Band25\_5MHz\_16QAM\_25\_0\_HighCH26665-1912.5



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Band25\_10MHz\_QPSK\_50\_0\_LowCH26090-1855



Band25\_10MHz\_16QAM\_50\_0\_LowCH26090-1855



Band25\_10MHz\_QPSK\_50\_0\_MidCH26365-1882.5



Band25\_10MHz\_16QAM\_50\_0\_MidCH26365-1882.5



Band25\_10MHz\_QPSK\_50\_0\_HighCH26640-1910



Band25\_10MHz\_16QAM\_50\_0\_HighCH26640-1910



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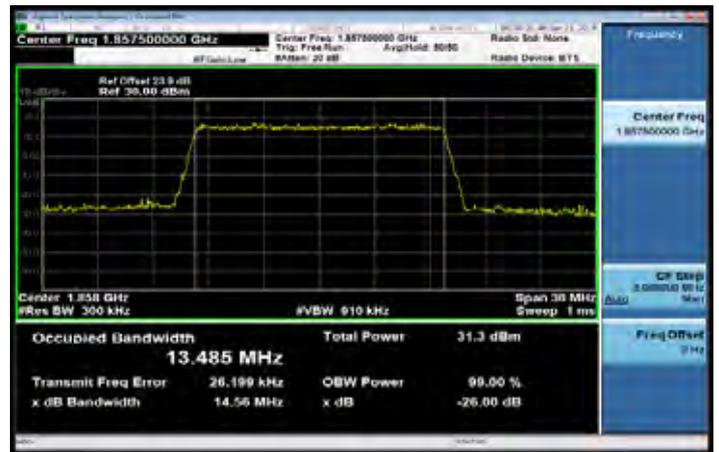
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Band25\_15MHz\_QPSK\_75\_0\_LowCH26115-1857.5



Band25\_15MHz\_16QAM\_75\_0\_LowCH26115-1857.5



Band25\_15MHz\_QPSK\_75\_0\_MidCH26365-1882.5



Band25\_15MHz\_16QAM\_75\_0\_MidCH26365-1882.5



Band25\_15MHz\_QPSK\_75\_0\_HighCH26615-1907.5



Band25\_15MHz\_16QAM\_75\_0\_HighCH26615-1907.5



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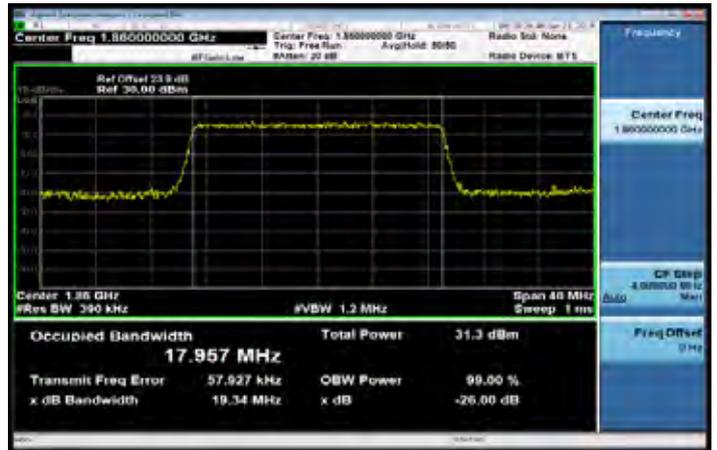
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Band25\_20MHz\_QPSK\_100\_0\_LowCH26140-1860



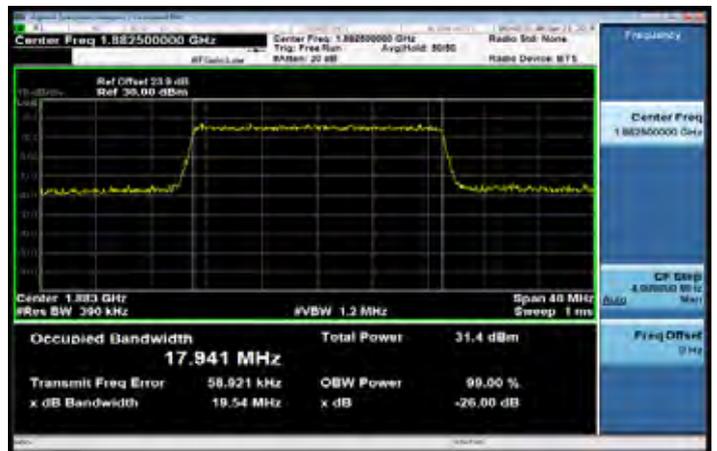
Band25\_20MHz\_16QAM\_100\_0\_LowCH26140-1860



Band25\_20MHz\_QPSK\_100\_0\_MidCH26365-1882.5



Band25\_20MHz\_16QAM\_100\_0\_MidCH26365-1882.5



Band25\_20MHz\_QPSK\_100\_0\_HighCH26590-1905



Band25\_20MHz\_16QAM\_100\_0\_HighCH26590-1905

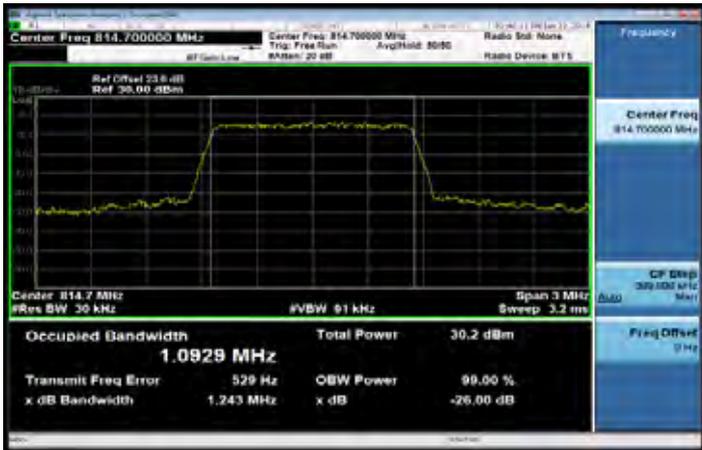


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Band26\_1\_4MHz\_QPSK\_6\_0\_LowCH26697



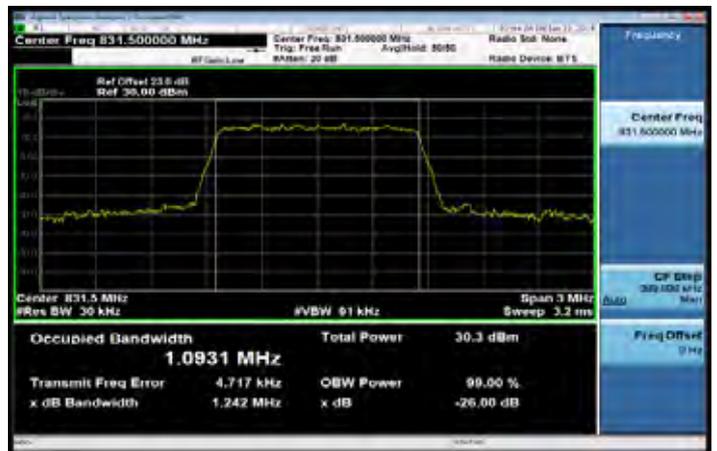
Band26\_1\_4MHz\_16QAM\_6\_0\_LowCH26697



Band26\_1\_4MHz\_QPSK\_6\_0\_MidCH26865



Band26\_1\_4MHz\_16QAM\_6\_0\_MidCH26865



Band26\_1\_4MHz\_QPSK\_6\_0\_HighCH27033



Band26\_1\_4MHz\_16QAM\_6\_0\_HighCH27033



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Band26\_3MHz\_QPSK\_15\_0\_LowCH26705



Band26\_3MHz\_16QAM\_15\_0\_LowCH26705



Band26\_3MHz\_QPSK\_15\_0\_MidCH26865



Band26\_3MHz\_16QAM\_15\_0\_MidCH26865



Band26\_3MHz\_QPSK\_15\_0\_HighCH27025



Band26\_3MHz\_16QAM\_15\_0\_HighCH27025



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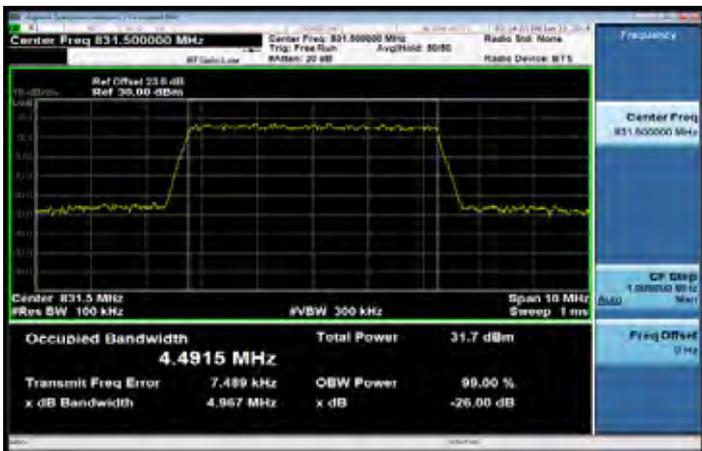
Band26\_5MHz\_QPSK\_25\_0\_LowCH26715



Band26\_5MHz\_16QAM\_25\_0\_LowCH26715



Band26\_5MHz\_QPSK\_25\_0\_MidCH26865



Band26\_5MHz\_16QAM\_25\_0\_MidCH26865



Band26\_5MHz\_QPSK\_25\_0\_HighCH27015



Band26\_5MHz\_16QAM\_25\_0\_HighCH27015



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Band26\_10MHz\_16QAM\_50\_0\_LowCH26750



Band26\_10MHz\_QPSK\_50\_0\_MidCH26865



Band26\_10MHz\_16QAM\_50\_0\_MidCH26865



Band26\_10MHz\_QPSK\_50\_0\_HighCH26990



Band26\_10MHz\_16QAM\_50\_0\_HighCH26990



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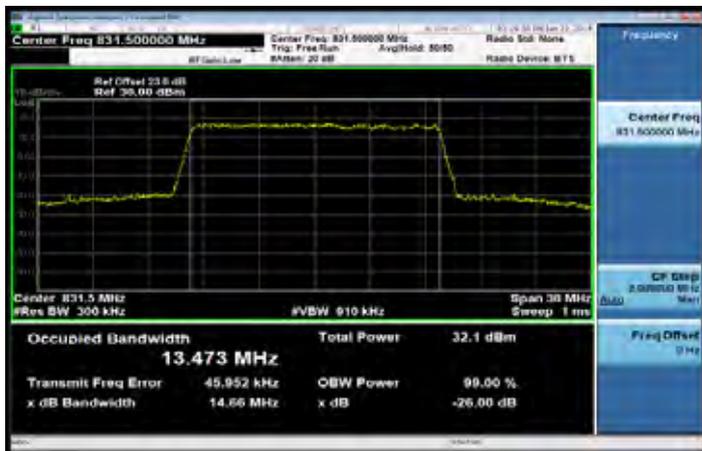
Band26\_15MHz\_QPSK\_75\_0\_LowCH26775



Band26\_15MHz\_16QAM\_75\_0\_LowCH26775



Band26\_15MHz\_QPSK\_75\_0\_MidCH26865



Band26\_15MHz\_16QAM\_75\_0\_MidCH26865



Band26\_15MHz\_QPSK\_75\_0\_HighCH26965



Band26\_15MHz\_16QAM\_75\_0\_HighCH26965



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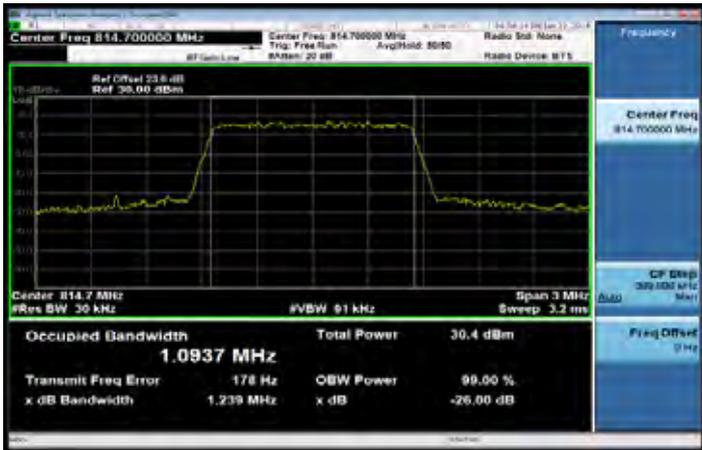
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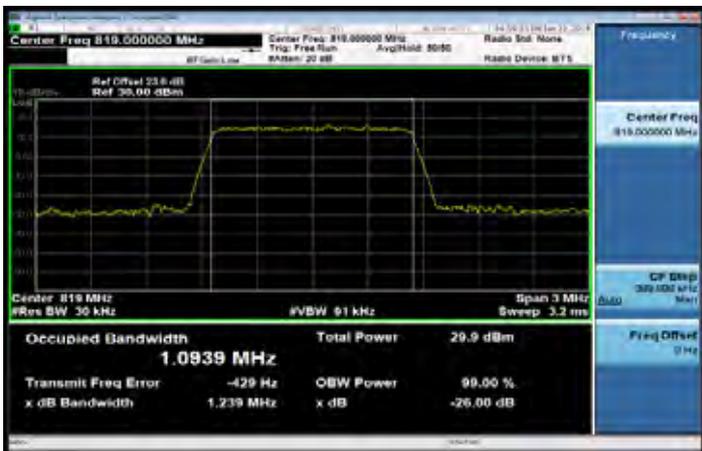
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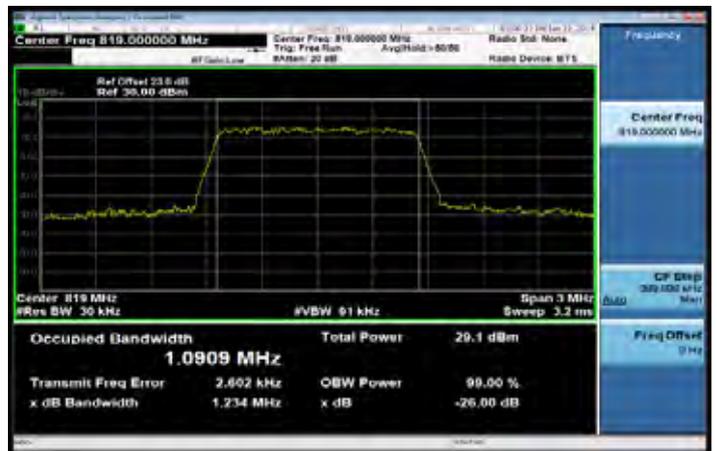
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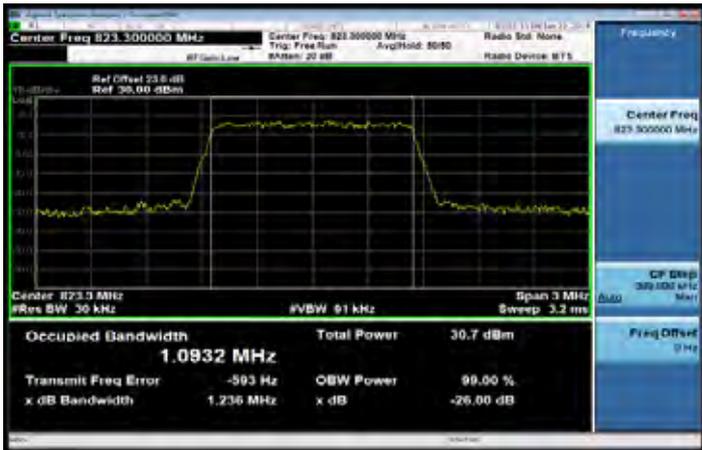
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Part 90\_Band26\_1\_4MHz\_16QAM\_6\_0\_MidCH26740



Part 90\_Band26\_1\_4MHz\_QPSK\_6\_0\_HighCH26783



Part 90\_Band26\_1\_4MHz\_16QAM\_6\_0\_HighCH26783



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Part 90\_Band26\_3MHz\_QPSK\_15\_0\_LowCH26705



Part 90\_Band26\_3MHz\_16QAM\_15\_0\_LowCH26705



Part 90\_Band26\_3MHz\_QPSK\_15\_0\_MidCH26740



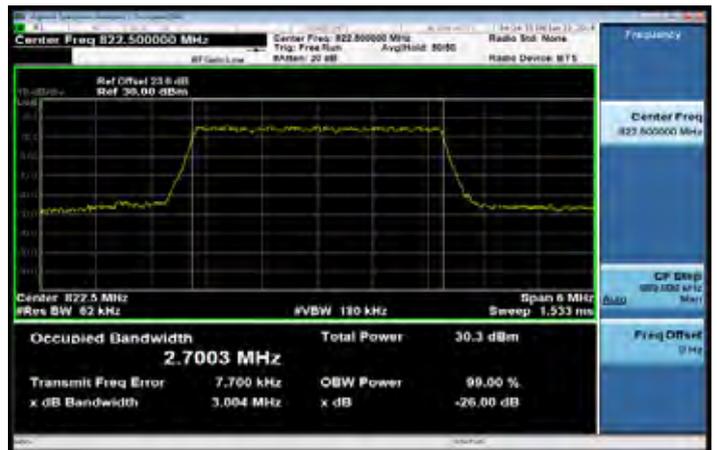
Part 90\_Band26\_3MHz\_16QAM\_15\_0\_MidCH26740



Part 90\_Band26\_3MHz\_QPSK\_15\_0\_HighCH26775



Part 90\_Band26\_3MHz\_16QAM\_15\_0\_HighCH26775



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Part 90\_Band26\_5MHz\_QPSK\_25\_0\_LowCH26715



Part 90\_Band26\_5MHz\_16QAM\_25\_0\_LowCH26715



Part 90\_Band26\_5MHz\_QPSK\_25\_0\_MidCH26740



Part 90\_Band26\_5MHz\_16QAM\_25\_0\_MidCH26740



Part 90\_Band26\_5MHz\_QPSK\_25\_0\_HighCH26765



Part 90\_Band26\_5MHz\_16QAM\_25\_0\_HighCH26765



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Part 90\_Band26\_10MHz\_QPSK\_50\_0\_MidCH26740



Band30\_5MHz\_QPSK\_25\_0\_MidCH27710



Part 90\_Band26\_10MHz\_16QAM\_50\_0\_MidCH26740



Band30\_5MHz\_QPSK\_25\_0\_HighCH27735



Band30\_5MHz\_QPSK\_25\_0\_LowCH27685



Band30\_5MHz\_16QAM\_25\_0\_LowCH27685



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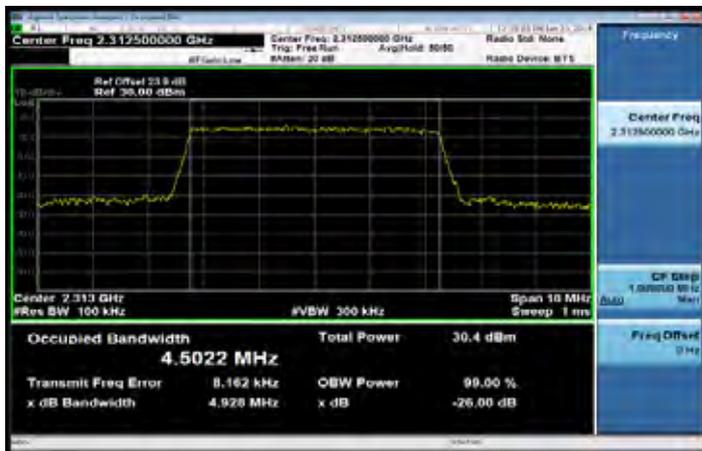
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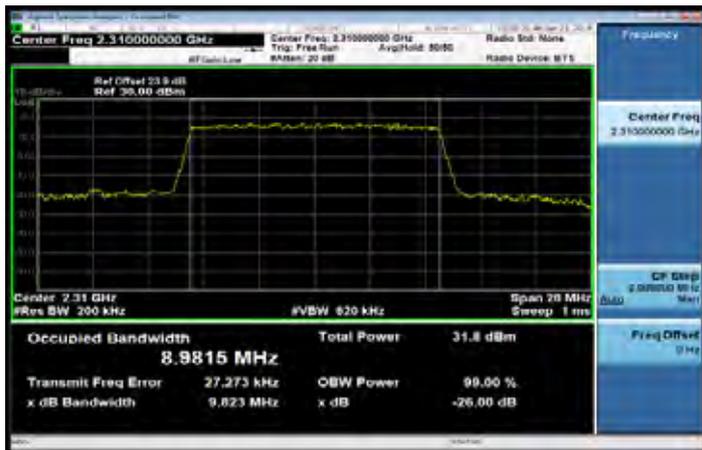
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Band30\_5MHz\_16QAM\_25\_0\_HighCH27735



Band30\_10MHz\_QPSK\_50\_0\_MidCH27710



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Band38\_5MHz\_QPSK\_25\_0\_LowCH37775-2572.5



Band38\_5MHz\_16QAM\_25\_0\_LowCH37775-2572.5



Band38\_5MHz\_QPSK\_25\_0\_MidCH38000-2595



Band38\_5MHz\_16QAM\_25\_0\_MidCH38000-2595



Band38\_5MHz\_QPSK\_25\_0\_HighCH38225-2617.5



Band38\_5MHz\_16QAM\_25\_0\_HighCH38225-2617.5



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Band38\_10MHz\_16QAM\_50\_0\_LowCH37800-2575



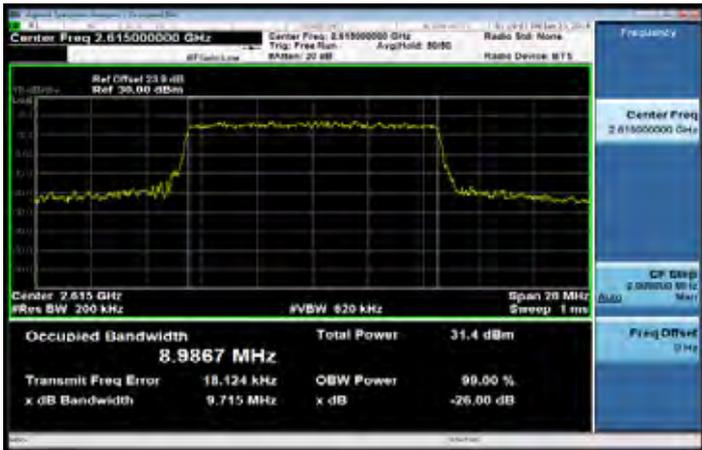
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Band38\_10MHz\_16QAM\_50\_0\_MidCH38000-2595



Band38\_10MHz\_QPSK\_50\_0\_HighCH38200-2615



Band38\_10MHz\_16QAM\_50\_0\_HighCH38200-2615



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Band38\_15MHz\_QPSK\_75\_0\_LowCH37825-2577.5



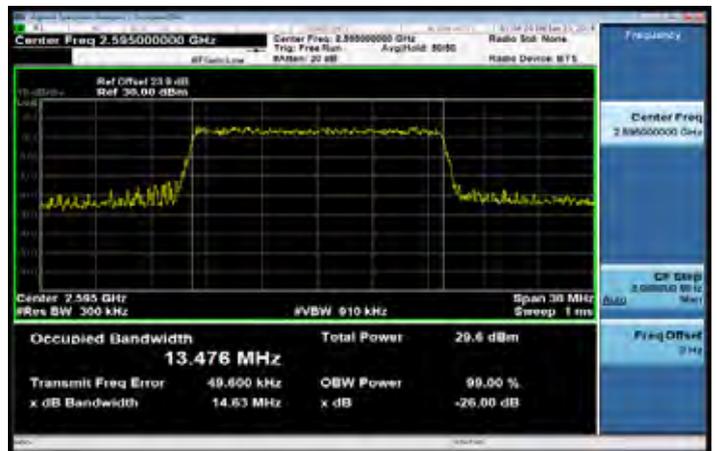
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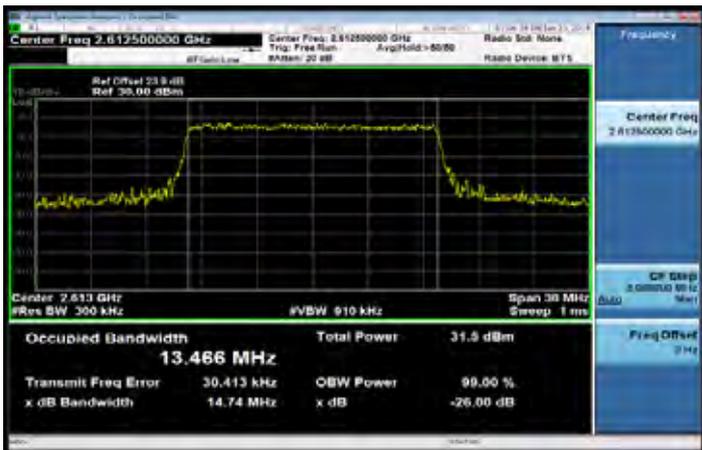
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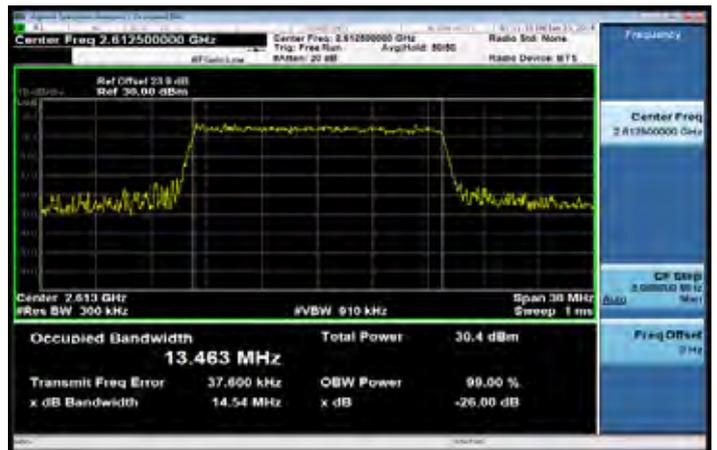
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Band38\_15MHz\_QPSK\_75\_0\_HighCH38175-2612.5



Band38\_15MHz\_16QAM\_75\_0\_HighCH38175-2612.5



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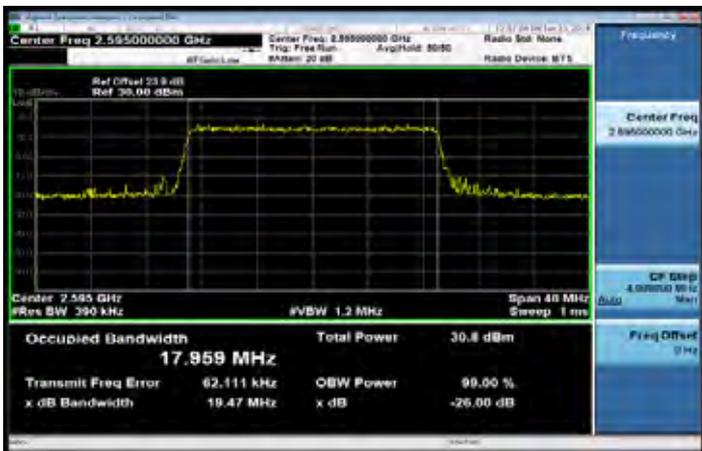
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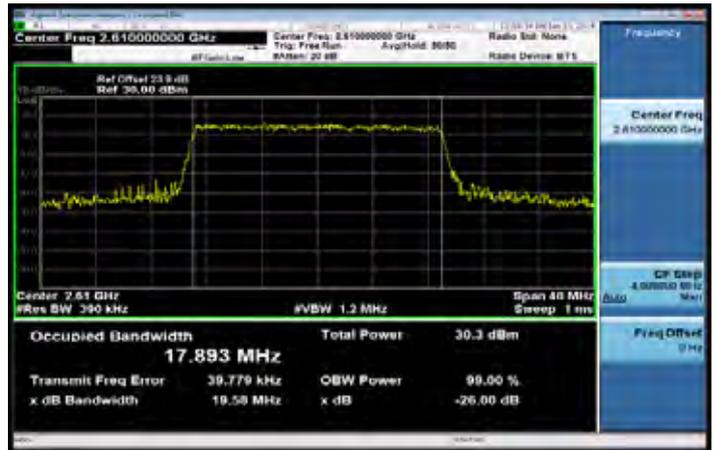
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Band38\_20MHz\_QPSK\_100\_0\_HighCH38150-2610



Band38\_20MHz\_16QAM\_100\_0\_HighCH38150-2610



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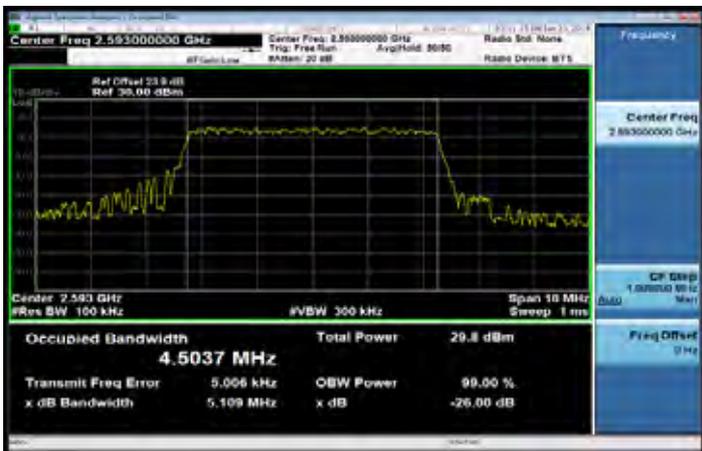
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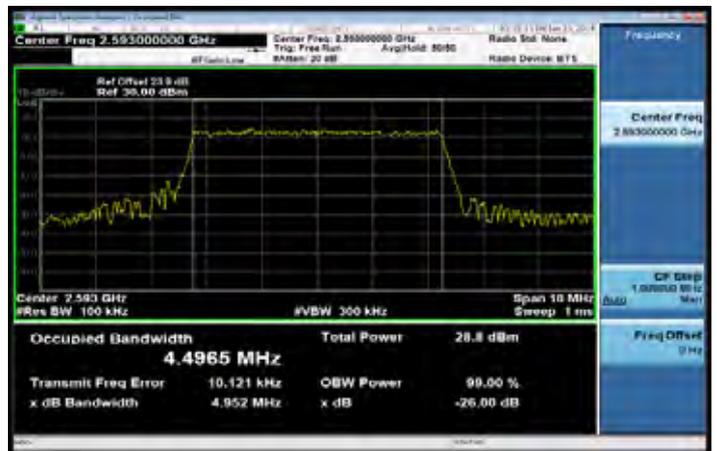
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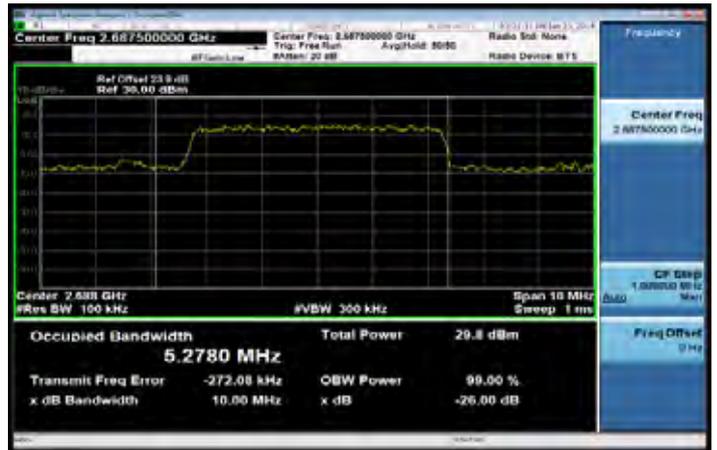
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Band41\_5MHz\_QPSK\_25\_0\_HighCH41565



Band41\_5MHz\_16QAM\_25\_0\_HighCH41565



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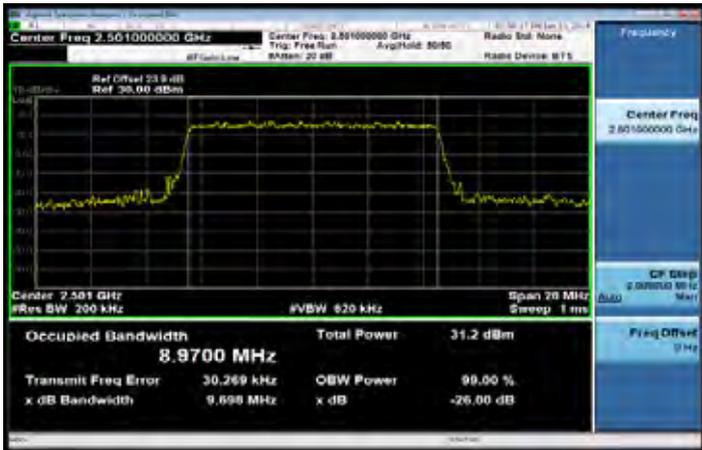
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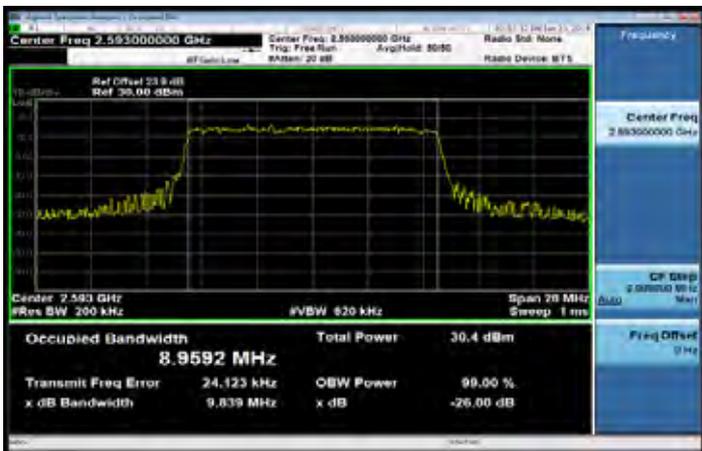
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Band41\_10MHz\_16QAM\_50\_0\_MidCH40620



Band41\_10MHz\_QPSK\_50\_0\_HighCH41540



Band41\_10MHz\_16QAM\_50\_0\_HighCH41540



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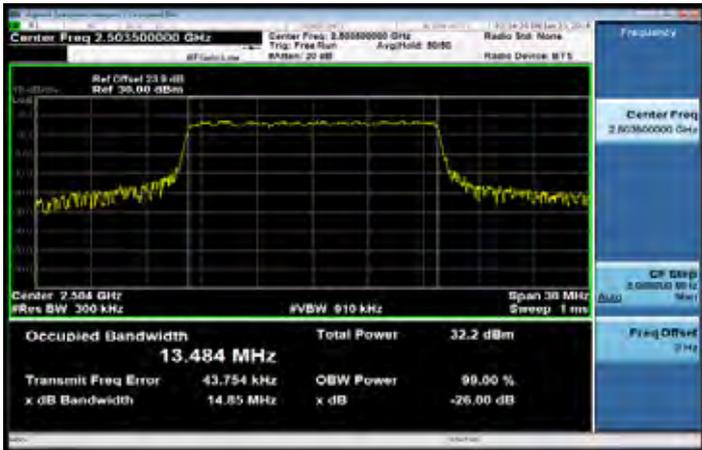
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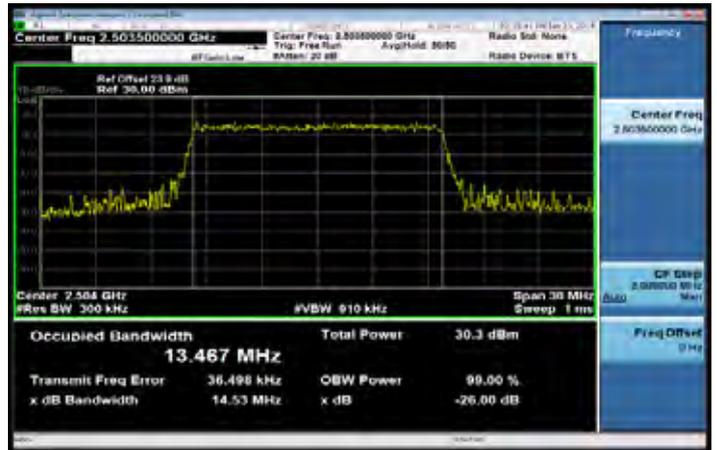
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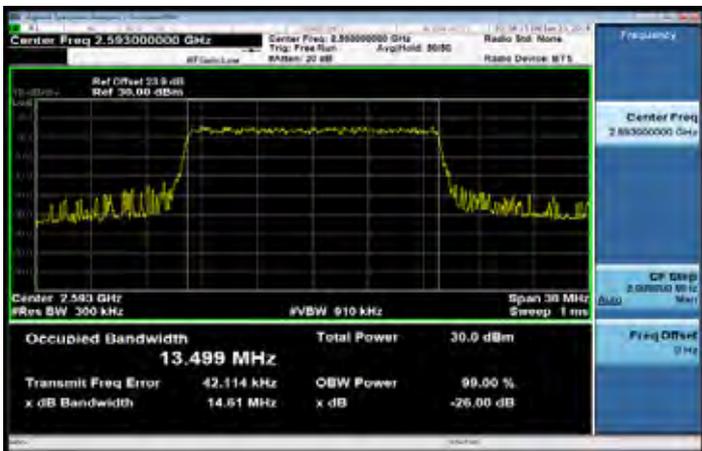
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Band41\_15MHz\_16QAM\_75\_0\_MidCH40620



Band41\_15MHz\_QPSK\_75\_0\_HighCH41515



Band41\_15MHz\_16QAM\_75\_0\_HighCH41515



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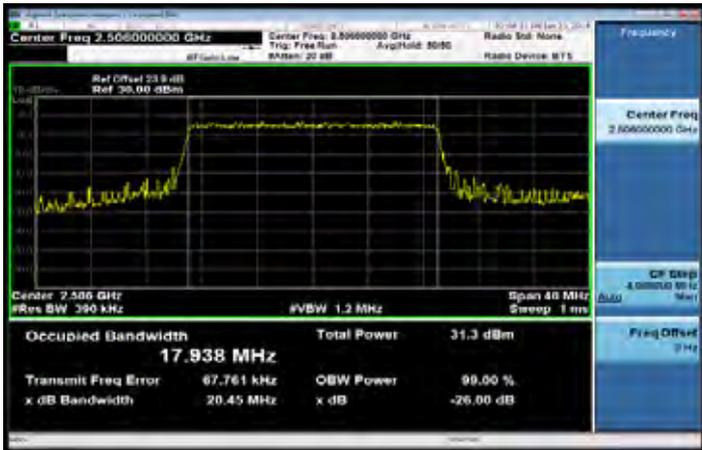
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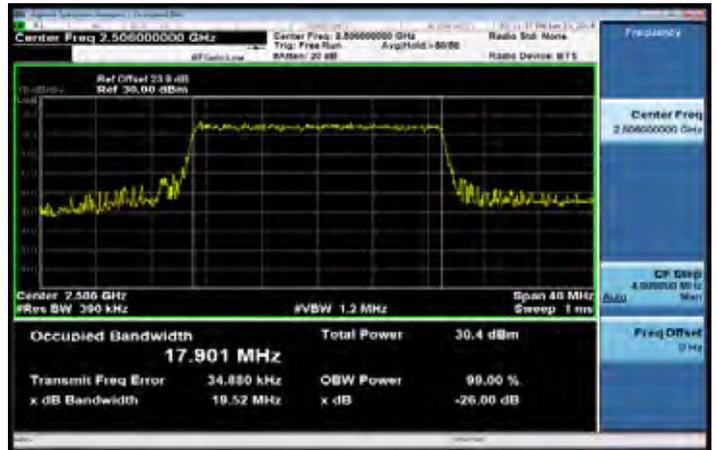
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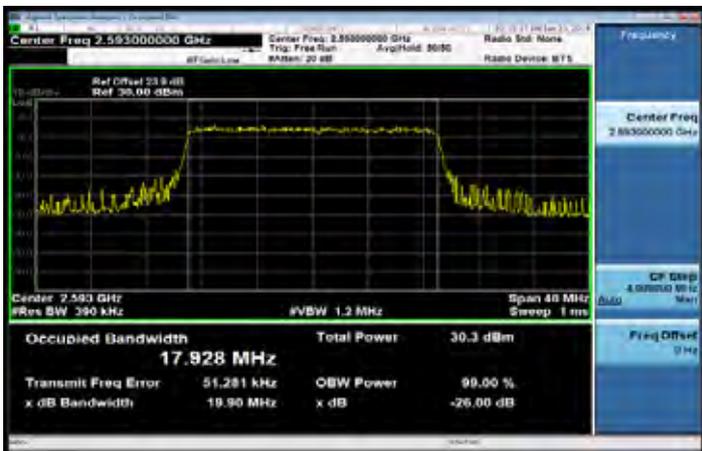
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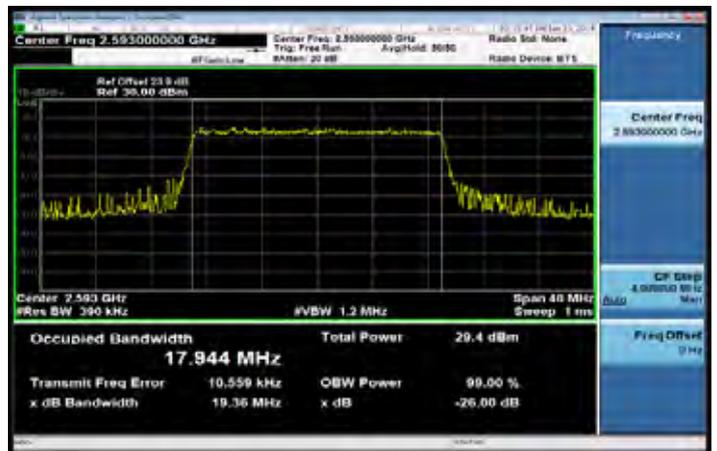
Band41\_20MHz\_16QAM\_100\_0\_LowCH39750



Band41\_20MHz\_QPSK\_100\_0\_MidCH40620



Band41\_20MHz\_16QAM\_100\_0\_MidCH40620



Band41\_20MHz\_QPSK\_100\_0\_HighCH41490



Band41\_20MHz\_16QAM\_100\_0\_HighCH41490



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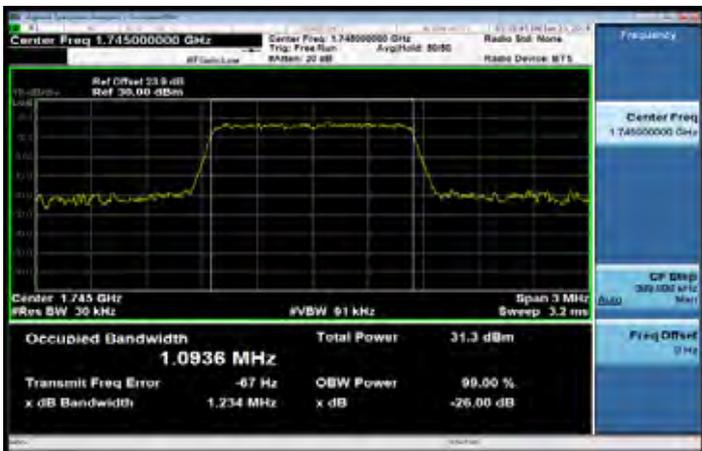
Band66\_1\_4MHz\_QPSK\_6\_0\_LowCH131979



Band66\_1\_4MHz\_16QAM\_6\_0\_LowCH131979



Band66\_1\_4MHz\_QPSK\_6\_0\_MidCH132322



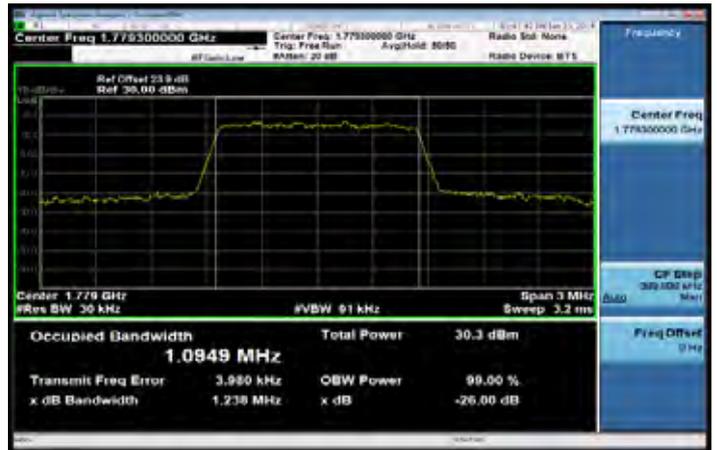
Band66\_1\_4MHz\_16QAM\_6\_0\_MidCH132322



Band66\_1\_4MHz\_QPSK\_6\_0\_HighCH132665



Band66\_1\_4MHz\_16QAM\_6\_0\_HighCH132665



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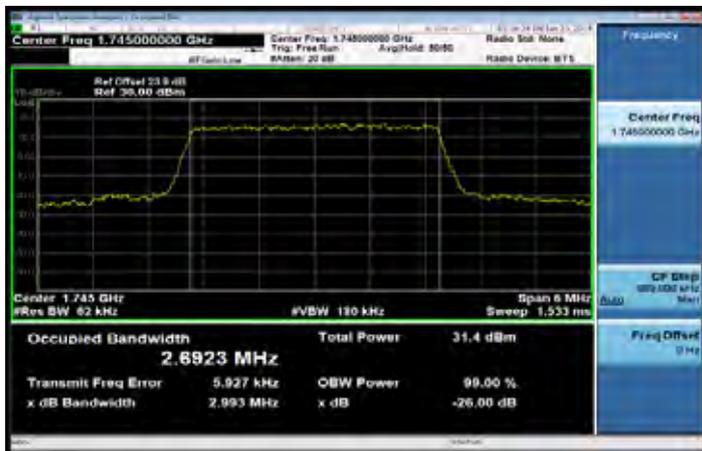
Band66\_3MHz\_QPSK\_15\_0\_LowCH131987



Band66\_3MHz\_16QAM\_15\_0\_LowCH131987



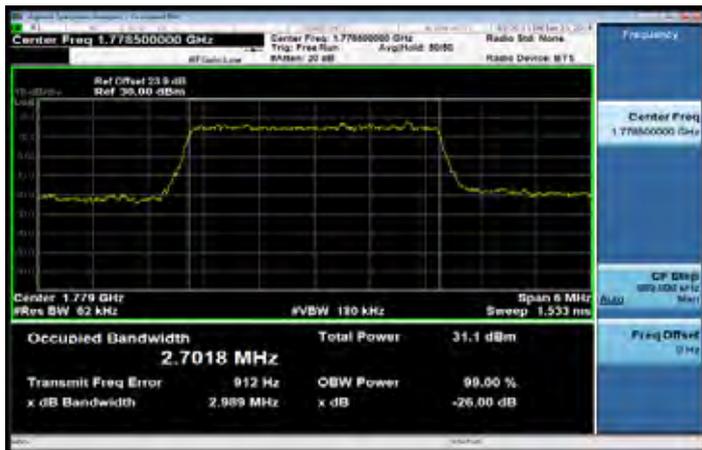
Band66\_3MHz\_QPSK\_15\_0\_MidCH132322



Band66\_3MHz\_16QAM\_15\_0\_MidCH132322



Band66\_3MHz\_QPSK\_15\_0\_HighCH132657



Band66\_3MHz\_16QAM\_15\_0\_HighCH132657



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Band66\_5MHz\_QPSK\_25\_0\_LowCH131997



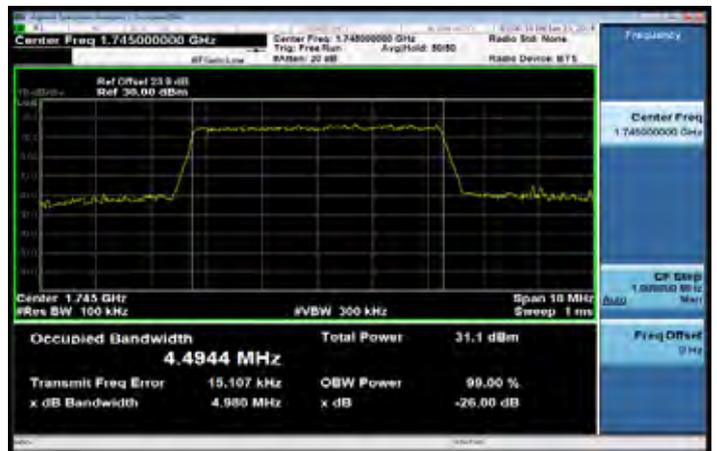
Band66\_5MHz\_16QAM\_25\_0\_LowCH131997



Band66\_5MHz\_QPSK\_25\_0\_MidCH132322



Band66\_5MHz\_16QAM\_25\_0\_MidCH132322



Band66\_5MHz\_QPSK\_25\_0\_HighCH132647



Band66\_5MHz\_16QAM\_25\_0\_HighCH132647



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Band66\_10MHz\_QPSK\_50\_0\_LowCH132022



Band66\_10MHz\_16QAM\_50\_0\_LowCH132022



Band66\_10MHz\_QPSK\_50\_0\_MidCH132322



Band66\_10MHz\_16QAM\_50\_0\_MidCH132322



Band66\_10MHz\_QPSK\_50\_0\_HighCH132622



Band66\_10MHz\_16QAM\_50\_0\_HighCH132622



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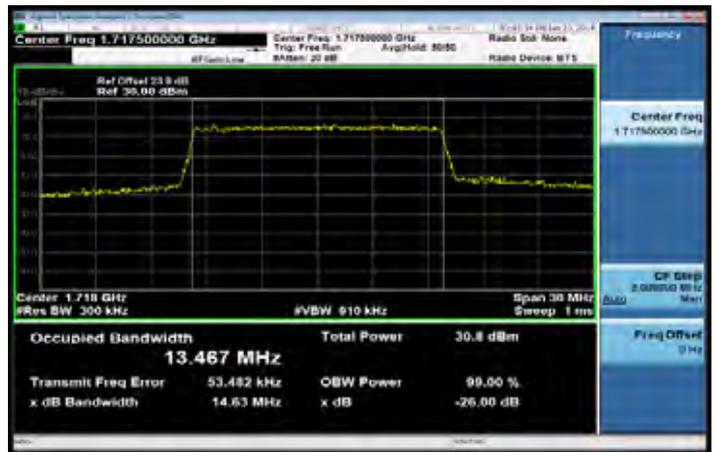
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Band66\_15MHz\_QPSK\_75\_0\_LowCH132047



Band66\_15MHz\_16QAM\_75\_0\_LowCH132047



Band66\_15MHz\_QPSK\_75\_0\_MidCH132322



Band66\_15MHz\_16QAM\_75\_0\_MidCH132322



Band66\_15MHz\_QPSK\_75\_0\_HighCH132597



Band66\_15MHz\_16QAM\_75\_0\_HighCH132597



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Band66\_20MHz\_16QAM\_100\_0\_LowCH132072



Band66\_20MHz\_QPSK\_100\_0\_MidCH132322



Band66\_20MHz\_16QAM\_100\_0\_MidCH132322



Band66\_20MHz\_QPSK\_100\_0\_HighCH132572



Band66\_20MHz\_16QAM\_100\_0\_HighCH132572



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## 9. OUT OF BAND EMISSION AT ANTENNA TERMINALS

### 9.1. Standard Applicable

FCC §22.917(a), §24.238(a), §27.53(h), Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

#### FCC §27.53(c)

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

(2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least  $43 + 10 \log(P)$  dB (-13dBm)

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

§27.53 (f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to  $-70$  dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and  $-80$  dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

#### FCC §27.53(c) (5) & FCC §27.53(g)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

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## FCC §27.53(h) (3)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

## FCC §27.53(m) (4) (6)

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

Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

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§90.691 Emission mask requirements for EA-based systems.

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

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

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \text{ Log}_{10}(P)$  decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

**Table 2 — Unwanted Emissions for Mobile, Portable and Low-Power Fixed Subscriber Equipment**

Frequency (MHz)	Attenuation (dB)
<2200	$43 + 10 \log_{10}(p)$
2200 - 2288	$70 + 10 \log_{10}(p)$
2288 - 2292	$67 + 10 \log_{10}(p)$
2292 - 2296	$61 + 10 \log_{10}(p)$
2296 - 2300	$55 + 10 \log_{10}(p)$
2300 - 2305	$43 + 10 \log_{10}(p)$
2305 - 2320	$43 + 10 \log_{10}(p)$ <sup>Note</sup>
2320 - 2324	$55 + 10 \log_{10}(p)$
2324 - 2328	$61 + 10 \log_{10}(p)$
2328 - 2337	$67 + 10 \log_{10}(p)$
2337 - 2341	$61 + 10 \log_{10}(p)$
2341 - 2345	$55 + 10 \log_{10}(p)$
2345 - 2360	$43 + 10 \log_{10}(p)$ <sup>Note</sup>
2360 - 2365	$43 + 10 \log_{10}(p)$
2365 - 2395	$70 + 10 \log_{10}(p)$
>2395	$43 + 10 \log_{10}(p)$

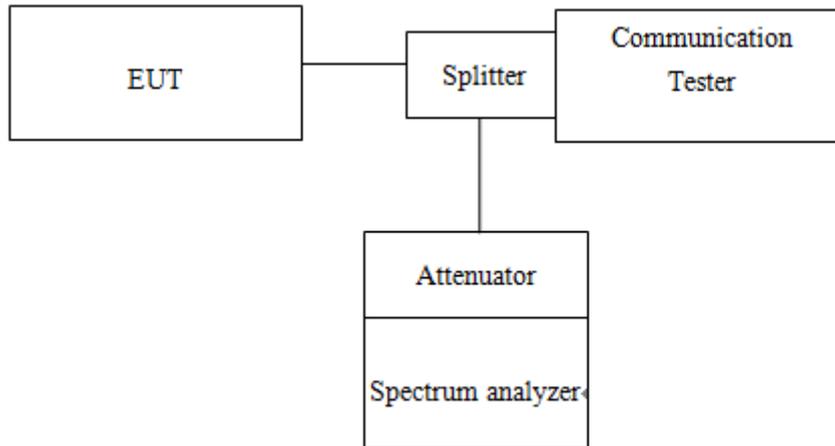
**Note:** Measured at the edges of the highest and lowest frequency range(s) in which the equipment is designed to operate. See Section 5.2 for the permitted frequency ranges for various equipment types.

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## 9.2. Test SET-UP



## 9.3. Measurement Procedure

### Conducted Emission

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

1. To connect Antenna Port of EUT to Spectrum.
2. Set RBW = 1MHz & VBW = 1MHz on Spectrum.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

### Band Edge

1. To connect Antenna Port of EUT to Spectrum.
2. The band edge of low and high channels for the highest RF powers was measured. Setting RBW  $\geq$  1% EBW.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

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#### 9.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018
Communication Tester	Anritsu	MT8820C	6201107337	06/11/2017	06/10/2018
Coaxial Cable 30cm	WOKEN	00100A1F1A19 5C	RF01	12/24/2017	12/23/2018
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/13/2017	06/12/2018
DC Block	PASTERNAK	PE8210	RF29	12/24/2017	12/23/2018
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/24/2017	12/23/2018
Attenuator	WOKEN	218FS-10	RF23	12/24/2017	12/23/2018
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018

#### 9.5. Measurement Result:

Refer to next pages.

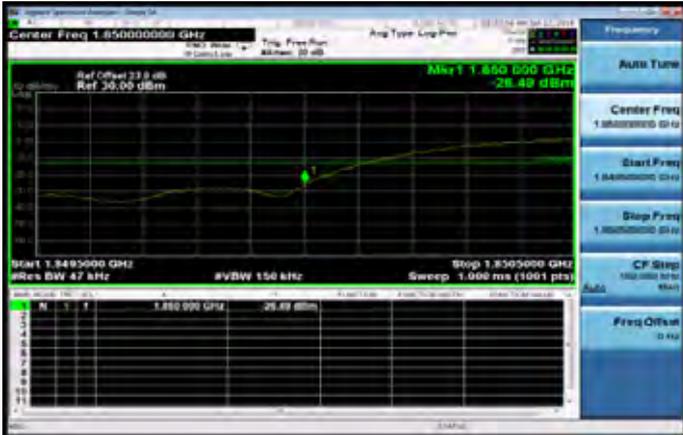
**NOTE: The occurrence of the spike on the conducted emission is the signal of the fundamental emission.**

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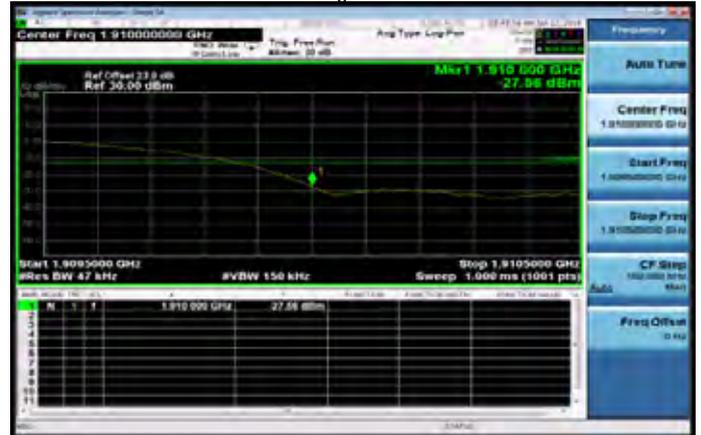
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HSDPA\_B2\_HighCH9538-1907.6



WCDMA\_B2\_HighCH9538-1907.6



HSUPA\_B2\_LowCH9262-1852.4



HSDPA\_B2\_LowCH9262-1852.4



HSUPA\_B2\_HighCH9538-1907.6



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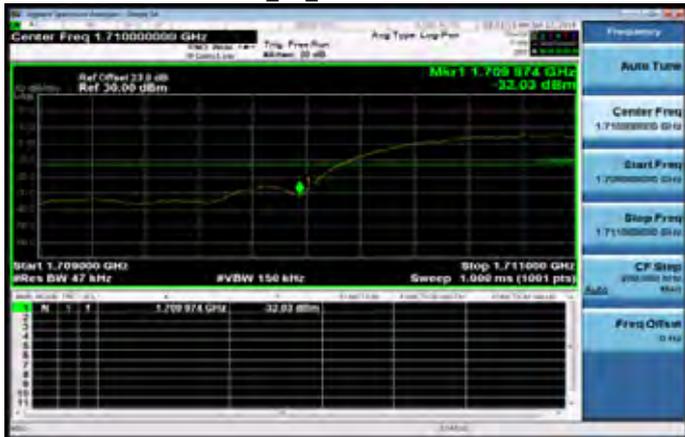
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HSDPA\_B4\_HighCH1513-1752.6



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HSUPA\_B4\_LowCH1312-1712.4



HSDPA\_B4\_LowCH1312-1712.4



HSUPA\_B4\_HighCH1513-1752.6



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HSDPA\_B5\_HighCH4233-846.6



WCDMA\_B5\_HighCH4233-846.6



HSUPA\_B5\_LowCH4132-826.4



HSDPA\_B5\_LowCH4132-826.4



HSUPA\_B5\_HighCH4233-846.6



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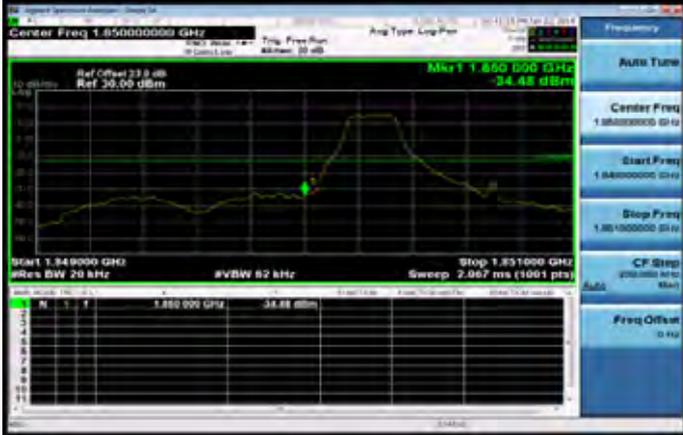
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Band2\_1\_4MHz\_QPSK\_6\_0\_HighCH19193-1909.3



Band2\_1\_4MHz\_QPSK\_1\_5\_HighCH19193-1909.3



Band2\_3MHz\_QPSK\_1\_0\_LowCH18615-1851.5



Band2\_1\_4MHz\_QPSK\_6\_0\_LowCH18607-1850.7



Band2\_3MHz\_QPSK\_1\_14\_HighCH19185-1908.5



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Band2\_5MHz\_QPSK\_1\_24\_HighCH19175-1907.5



Band2\_3MHz\_QPSK\_15\_0\_HighCH19185-1908.5



Band2\_5MHz\_QPSK\_25\_0\_LowCH18625-1852.5



Band2\_5MHz\_QPSK\_1\_0\_LowCH18625-1852.5



Band2\_5MHz\_QPSK\_25\_0\_HighCH19175-1907.5



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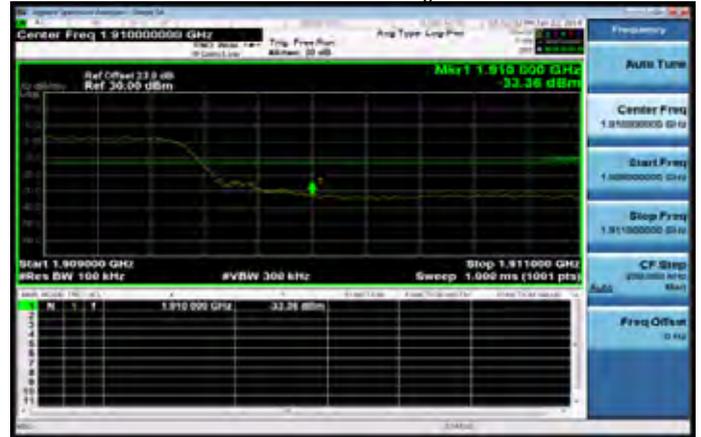
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Band2\_10MHz\_QPSK\_50\_0\_HighCH19150-1905



Band2\_10MHz\_QPSK\_1\_49\_HighCH19150-1905



Band2\_15MHz\_QPSK\_1\_0\_LowCH18675-1857.5



Band2\_10MHz\_QPSK\_50\_0\_LowCH18650-1855



Band2\_15MHz\_QPSK\_1\_74\_HighCH19125-1902.5



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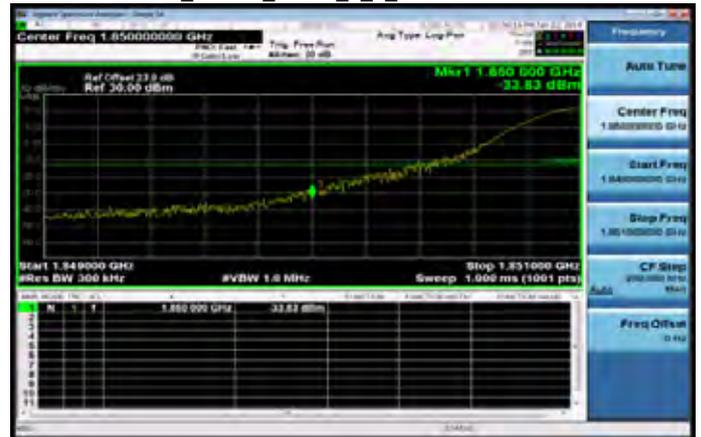
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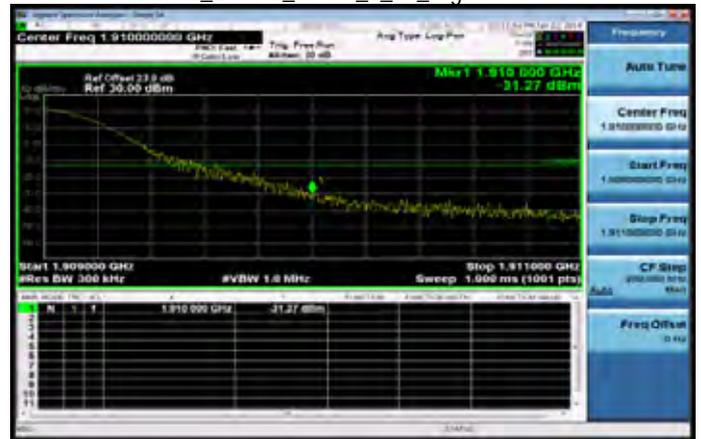
Band2\_20MHz\_QPSK\_1\_0\_LowCH18700-1860



Band2\_15MHz\_QPSK\_75\_0\_HighCH19125-1902.5



Band2\_20MHz\_QPSK\_1\_99\_HighCH19100



Band2\_20MHz\_QPSK\_1\_0\_LowCH18700



Band2\_20MHz\_QPSK\_1\_99\_HighCH19100-1900



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