

**ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT**

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**INTENTIONAL RADIATOR CERTIFICATION TO**

**FCC PART 22 SUBPART H, PART 24 SUBPART E and PART 27 SUBPART**

**B, C & SUBPART L REQUIREMENT**

OF

<b>Product Name:</b>	<b>Tablet</b>
<b>Brand Name:</b>	<b>HP</b>
<b>Model No.:</b>	<b>HSN-I06C</b>
<b>Model Difference:</b>	<b>N/A</b>
<b>FCC ID:</b>	<b>B94HNI06CAS</b>
<b>Report No.:</b>	<b>ER/2018/60078</b>
<b>Issue Date:</b>	<b>Jun. 22, 2018</b>
<b>FCC Rule Part:</b>	<b>2 , 22H &amp; 24E &amp; 27B, C &amp; L</b>
<b>Prepared for:</b>	<b>HP Inc. 3390 East Harmony Road Fort Collins, Colorado 80528 United States</b>
<b>Prepared by:</b>	<b>SGS Taiwan Ltd. Electronics &amp; Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803</b>

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## VERIFICATION OF COMPLIANCE

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

**Product Name:** Tablet

**Brand Name:** HP

**Model No.:** HSN-I06C

**Model Difference:** N/A

**FCC ID:** B94HNI06CAS

**File Number:** ER/2018/60078

**Date of test:** Sep. 09, 2016 ~ Oct. 06, 2016

**Date of EUT Received:** Sep. 09, 2016

### 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 TIA/EIA-603-D-2010 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.

**Test By:** *Louis Chen* **Date:** Jun. 22, 2018

\_\_\_\_\_  
**Louis Chen / Engineer**

**Prepared By:** *Allen Tsai* **Date:** Jun. 22, 2018

\_\_\_\_\_  
**Allen Tsai / Engineer**

**Approved By:** *Jim Chang* **Date:** Jun. 22, 2018

\_\_\_\_\_  
**Jim Chang / Manager**

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## Revision History

Report Number	Revision	Description	Issue Date
ER/2018/60078	Rev.00	Initial creation of document	Jun. 22, 2018

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## 1. GENERAL PRODUCT INFORMATION

### 1.1. Product Description

General:

Product Name:	Tablet	
Brand Name:	HP	
Model No.:	HSN-I06C	
Model difference:	N/A	
Product SW/HW version:	N/A / N/A	
Radio SW/HW version:	N/A	
Test SW Version:	N/A	
RF power setting in TEST SW:	N/A	
WWAN Module:	Model No.: T77W595, Supplier: HON HAI PRECISION IND.CO., LTD.	
Power Supply:	7.7Vdc from Rechargeable Li-polymer Battery or 5 V from AC/DC Adapter	
	Battery:	Model No.: HSTNN-DB7Q, Supplier: DYNAPACK ELECTRONIC TECHNOLOGY (SUZHOU) CO., LTD.
	Adapter:	<ol style="list-style-type: none"> <li>Model No.:TPN-CA06, Supplier: CHICONY POWER TECHNOLOGY (CHONGQING) CO.,LTD.</li> <li>Model No.:TPN-AA03, Supplier: Acbel Electronic (Wuhan) Co., Ltd.</li> <li>Model No.:TPN-DA07, Supplier:DELTA ELECTRONICS (JIANGSU) LTD.</li> <li>Model No.:TPN-LA06, Supplier:LITE-ON TECHNOLOGY (CHANGZHOU)CO.,LTD.</li> </ol>

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**WCDMA / LTE:**

	Operating Frequency		Rated Power
	Cellular Phone Standards Frequency Range and Power	WCDMA / HSPA+ Band II	1852.4MHz – 1907.6MHz
WCDMA / HSPA+ Band IV		1712.4MHz – 1752.6MHz	24dBm
WCDMA / HSPA+ Band V		826.4MHz - 846.6MHz	24dBm
LTE-Band 2 (1.4MHz)		1850.7MHz– 1909.3MHz	23dBm
LTE-Band 2 (3MHz)		1851.5MHz – 1908.5MHz	23dBm
LTE-Band 2 (5MHz)		1852.5MHz – 1907.5MHz	23dBm
LTE-Band 2 (10MHz)		1855.0MHz – 1905.0MHz	23dBm
LTE-Band 2 (15MHz)		1857.5MHz – 1902.5MHz	23dBm
LTE-Band 2 (20MHz)		1860.0MHz – 1900.0MHz	23dBm
LTE-Band 4 (1.4MHz)		1710.7MHz– 1754.3MHz	23dBm
LTE-Band 4 (3MHz)		1711.5MHz – 1753.5MHz	23dBm
LTE-Band 4 (5MHz)		1712.5MHz – 1752.5MHz	23dBm
LTE-Band 4 (10MHz)		1715MHz – 1750MHz	23dBm
LTE-Band 4 (15MHz)		1717.5MHz – 1747.5MHz	23dBm
LTE-Band 4 (20MHz)		1720MHz – 1745MHz	23dBm
LTE-Band 5 (1.4MHz)		824.7MHz – 848.3MHz	23dBm
LTE-Band 5 (3MHz)		825.5MHz – 847.5MHz	23dBm
LTE-Band 5 (5MHz)		826.5MHz – 846.5MHz	23dBm
LTE-Band 5 (10MHz)		829.0MHz – 844.0MHz	23dBm

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Cellular Phone Standards Frequency Range and Power	Operating Frequency		Rated Power
	LTE-Band 7 (5MHz)	2502.5MHz – 2567.5MHz	23dBm
	LTE-Band 7 (10MHz)	2505.0MHz – 2565.0MHz	23dBm
	LTE-Band 7 (15MHz)	2507.5MHz – 2562.5MHz	23dBm
	LTE-Band 7 (20MHz)	2510.0MHz – 2560MHz	23dBm
	LTE-Band 12 (1.4MHz)	699.7MHz– 715.3MHz	23dBm
	LTE-Band 12 (3MHz)	700.5MHz – 714.5MHz	23dBm
	LTE-Band 12 (5MHz)	701.5MHz – 713.5MHz	23dBm
	LTE-Band 12 (10MHz)	704.0MHz – 711.0MHz	23dBm
	LTE-Band 17 (5MHz)	706.5MHz – 713.5MHz	23dBm
	LTE-Band 17 (10MHz)	709.0MHz –711.0MHz	23dBm
IMEI:	358895060487924		

**Type of Emission:**

Frequency Band	Type of Emission:
WCDMA Band II	4M15F9W
HSDPA Band II	4M16F9W
HSUPA Band II	4M16F9W
WCDMA Band IV	4M16F9W
HSDPA Band IV	4M16F9W
HSUPA Band IV	4M16F9W
WCDMA Band V	4M16F9W
HSDPA Band V	4M16F9W
HSUPA Band V	4M15F9W

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LTE Band	BW (MHz)	Modulation	Type of Emission
LTE Band 2	1.4MHz	QPSK	1M10G7D
LTE Band 2	1.4MHz	16QAM	1M11D7W
LTE Band 2	3MHz	QPSK	2M71G7D
LTE Band 2	3MHz	16QAM	2M71D7W
LTE Band 2	5MHz	QPSK	4M51G7D
LTE Band 2	5MHz	16QAM	4M51D7W
LTE Band 2	10MHz	QPSK	9M01G7D
LTE Band 2	10MHz	16QAM	8M96D7W
LTE Band 2	15MHz	QPSK	13M5G7D
LTE Band 2	15MHz	16QAM	13M4D7W
LTE Band 2	20MHz	QPSK	17M9G7D
LTE Band 2	20MHz	16QAM	17M9D7W
LTE Band 4	1.4MHz	QPSK	1M10G7D
LTE Band 4	1.4MHz	16QAM	1M10D7W
LTE Band 4	3MHz	QPSK	2M71G7D
LTE Band 4	3MHz	16QAM	2M71D7W
LTE Band 4	5MHz	QPSK	4M51G7D
LTE Band 4	5MHz	16QAM	4M50D7W
LTE Band 4	10MHz	QPSK	8M99G7D
LTE Band 4	10MHz	16QAM	8M96D7W
LTE Band 4	15MHz	QPSK	13M5G7D
LTE Band 4	15MHz	16QAM	13M5D7W
LTE Band 4	20MHz	QPSK	17M9G7D
LTE Band 4	20MHz	16QAM	17M9D7W
LTE Band 5	1.4MHz	QPSK	1M10G7D
LTE Band 5	1.4MHz	16QAM	1M10D7W
LTE Band 5	3MHz	QPSK	2M71G7D
LTE Band 5	3MHz	16QAM	2M71D7W
LTE Band 5	5MHz	QPSK	4M51G7D
LTE Band 5	5MHz	16QAM	4M50D7W
LTE Band 5	10MHz	QPSK	9M03G7D
LTE Band 5	10MHz	16QAM	9M01D7W
LTE Band 7	5MHz	QPSK	4M51G7D
LTE Band 7	5MHz	16QAM	4M51D7W
LTE Band 7	10MHz	QPSK	9M01G7D
LTE Band 7	10MHz	16QAM	8M96D7W
LTE Band 7	15MHz	QPSK	13M5G7D
LTE Band 7	15MHz	16QAM	13M5D7W
LTE Band 7	20MHz	QPSK	17M9G7D
LTE Band 7	20MHz	16QAM	17M9D7W

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LTE Band	BW (MHz)	Modulation	Type of Emission
LTE Band 12	1.4MHz	QPSK	1M11G7D
LTE Band 12	1.4MHz	16QAM	1M10D7W
LTE Band 12	3MHz	QPSK	2M72G7D
LTE Band 12	3MHz	16QAM	2M71D7W
LTE Band 12	5MHz	QPSK	4M53G7D
LTE Band 12	5MHz	16QAM	4M52D7W
LTE Band 12	10MHz	QPSK	9M06G7D
LTE Band 12	10MHz	16QAM	9M04D7W
LTE Band 17	5MHz	QPSK	4M52G7D
LTE Band 17	5MHz	16QAM	4M52D7W
LTE Band 17	10MHz	QPSK	9M00G7D
LTE Band 17	10MHz	16QAM	8M95D7W

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**Max ERP/EIRP Power Measurement Result:**

	<b>dBm</b>		<b>W</b>
WCDMA Band II	<b>26.42</b>	EIRP	0.439
HSDPA Band II	<b>23.91</b>	EIRP	0.246
HSUPA Band II	<b>23.28</b>	EIRP	0.213
WCDMA Band IV	<b>27.97</b>	EIRP	0.627
HSDPA Band IV	<b>25.65</b>	EIRP	0.367
HSUPA Band IV	<b>24.55</b>	EIRP	0.285
WCDMA Band V	<b>20.62</b>	ERP	0.115
HSDPA Band V	<b>19.64</b>	ERP	0.092
HSUPA Band V	<b>17.60</b>	ERP	0.058
LTE-Band 2 (Bandwidth 1.4MHz) QPSK	<b>25.45</b>	EIRP	0.351
LTE-Band 2 (Bandwidth 1.4MHz) 16QAM	<b>25.70</b>	EIRP	0.372
LTE-Band 2 (Bandwidth 3MHz) QPSK	<b>25.80</b>	EIRP	0.380
LTE-Band 2 (Bandwidth 3MHz) 16QAM	<b>25.95</b>	EIRP	0.394
LTE-Band 2 (Bandwidth 5MHz) QPSK	<b>25.81</b>	EIRP	0.381
LTE-Band 2 (Bandwidth 5MHz) 16QAM	<b>25.94</b>	EIRP	0.393
LTE-Band 2 (Bandwidth 10MHz) QPSK	<b>25.80</b>	EIRP	0.380
LTE-Band 2 (Bandwidth 10MHz) 16QAM	<b>26.15</b>	EIRP	0.412
LTE-Band 2 (Bandwidth 15MHz) QPSK	<b>25.71</b>	EIRP	0.372
LTE-Band 2 (Bandwidth 15MHz) 16QAM	<b>25.96</b>	EIRP	0.394
LTE-Band 2 (Bandwidth 20MHz) QPSK	<b>25.11</b>	EIRP	0.324
LTE-Band 2 (Bandwidth 20MHz) 16QAM	<b>25.37</b>	EIRP	0.344

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	dBm		W
LTE-Band 4 (Bandwidth 1.4MHz) QPSK	<b>24.29</b>	EIRP	0.269
LTE-Band 4 (Bandwidth 1.4MHz) 16QAM	<b>24.42</b>	EIRP	0.277
LTE-Band 4 (Bandwidth 3MHz) QPSK	<b>24.48</b>	EIRP	0.281
LTE-Band 4 (Bandwidth 3MHz) 16QAM	<b>24.58</b>	EIRP	0.287
LTE-Band 4 (Bandwidth 5MHz) QPSK	<b>24.63</b>	EIRP	0.290
LTE-Band 4 (Bandwidth 5MHz) 16QAM	<b>24.78</b>	EIRP	0.301
LTE-Band 4 (Bandwidth 10MHz) QPSK	<b>24.54</b>	EIRP	0.284
LTE-Band 4 (Bandwidth 10MHz) 16QAM	<b>24.75</b>	EIRP	0.299
LTE-Band 4 (Bandwidth 15MHz) QPSK	<b>24.74</b>	EIRP	0.298
LTE-Band 4 (Bandwidth 15MHz) 16QAM	<b>24.99</b>	EIRP	0.316
LTE-Band 4 (Bandwidth 20MHz) QPSK	<b>24.74</b>	EIRP	0.298
LTE-Band 4 (Bandwidth 20MHz) 16QAM	<b>25.12</b>	EIRP	0.325
LTE-Band 5 (Bandwidth 1.4MHz) QPSK	<b>18.87</b>	ERP	0.077
LTE-Band 5 (Bandwidth 1.4MHz) 16QAM	<b>18.27</b>	ERP	0.067
LTE-Band 5 (Bandwidth 3MHz) QPSK	<b>20.06</b>	ERP	0.101
LTE-Band 5 (Bandwidth 3MHz) 16QAM	<b>19.43</b>	ERP	0.088
LTE-Band 5 (Bandwidth 5MHz) QPSK	<b>20.33</b>	ERP	0.108
LTE-Band 5 (Bandwidth 5MHz) 16QAM	<b>20.58</b>	ERP	0.114
LTE-Band 5 (Bandwidth 10MHz) QPSK	<b>19.99</b>	ERP	0.100
LTE-Band 5 (Bandwidth 10MHz) 16QAM	<b>19.70</b>	ERP	0.093
LTE-Band 7 (Bandwidth 5MHz) QPSK	<b>23.03</b>	EIRP	0.201
LTE-Band 7 (Bandwidth 5MHz) 16QAM	<b>23.24</b>	EIRP	0.211
LTE-Band 7 (Bandwidth 10MHz) QPSK	<b>23.02</b>	EIRP	0.200
LTE-Band 7 (Bandwidth 10MHz) 16QAM	<b>23.28</b>	EIRP	0.213
LTE-Band 7 (Bandwidth 15MHz) QPSK	<b>22.54</b>	EIRP	0.179
LTE-Band 7 (Bandwidth 15MHz) 16QAM	<b>22.84</b>	EIRP	0.192
LTE-Band 7 (Bandwidth 20MHz) QPSK	<b>22.65</b>	EIRP	0.184
LTE-Band 7 (Bandwidth 20MHz) 16QAM	<b>22.77</b>	EIRP	0.189

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	<b>dBm</b>		<b>W</b>
LTE-Band 12 (Bandwidth 1.4MHz) QPSK	<b>20.74</b>	ERP	0.119
LTE-Band 12 (Bandwidth 1.4MHz) 16QAM	<b>20.89</b>	ERP	0.123
LTE-Band 12 (Bandwidth 3MHz) QPSK	<b>21.03</b>	ERP	0.127
LTE-Band 12 (Bandwidth 3MHz) 16QAM	<b>21.26</b>	ERP	0.134
LTE-Band 12 (Bandwidth 5MHz) QPSK	<b>21.17</b>	ERP	0.131
LTE-Band 12 (Bandwidth 5MHz) 16QAM	<b>21.36</b>	ERP	0.137
LTE-Band 12 (Bandwidth 10MHz) QPSK	<b>20.93</b>	ERP	0.124
LTE-Band 12 (Bandwidth 10MHz) 16QAM	<b>21.18</b>	ERP	0.131
LTE-Band 17 (Bandwidth 5MHz) QPSK	<b>20.75</b>	ERP	0.119
LTE-Band 17 (Bandwidth 5MHz) 16QAM	<b>21.17</b>	ERP	0.131
LTE-Band 17 (Bandwidth 10MHz) QPSK	<b>21.34</b>	ERP	0.136
LTE-Band 17 (Bandwidth 10MHz) 16QAM	<b>21.69</b>	ERP	0.148

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## 1.2. Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) supports below functions.

Product Feature	
WCDMA Operating Band(s)	FDD Band II / IV / V
WCDMA Rel. Version	Rel.99
LTE Operating Band(s)	FCC Band 2 / 4 / 5 / 7 / 12 / 17
LTE Rel. Version	Rel.10
Bluetooth Version	V4.2 dual mode
Wi-Fi- Specification	802.11a/b/g/n/ac
NFC Specification	NFC

**Note: The above EUT information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.**

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### 1.3. Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22, 24, 27

ANSI / TIA / EIA 603-D-2010

KDB971168 D01 Power Meas license Digital System

KDB941225 of the Output power Procedure of (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.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan. (TAF code 0513)

FCC Registration Numbers are: 509634

### 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 TIA/EIA 603C, 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 TIA/EIA 603C, The EUT is a placed on as turn table which is 0.8 m above ground plane. 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 example with cable loss 1 dB for low band and 1 for high band with 10 dB attenuator and 3.2 splitter.

Low Band: Offset = RF cable loss (dB)+ attenuation factor(dB) =3.6+10=13.6(dB)

High Band: Offset = RF cable loss (dB)+ attenuation factor(dB) =4+10=14(dB)

## 2.5. Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
WCDMA B2	7.7 Vdc	722
WCDMA B4	7.7 Vdc	691
WCDMA B5	7.7 Vdc	665
HSUPA B2	7.7 Vdc	741
HSUPA B4	7.7 Vdc	689
HSUPA B5	7.7 Vdc	654
HSDPA B2	7.7 Vdc	751
HSDPA B4	7.7 Vdc	674
HSDPA B5	7.7 Vdc	635

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Test Mode	DC voltage (V)	DC current (mA)
LTE Band 2_1.4M QPSK	7.7Vdc	894
LTE Band 2_1.4M 16QAM	7.7Vdc	884
LTE Band 2_3M QPSK	7.7Vdc	906
LTE Band 2_3M 16QAM	7.7Vdc	891
LTE Band 2_5M QPSK	7.7Vdc	903
LTE Band 2_5M 16QAM	7.7Vdc	891
LTE Band 2_10M QPSK	7.7Vdc	906
LTE Band 2_10M 16QAM	7.7Vdc	879
LTE Band 2_15M QPSK	7.7Vdc	923
LTE Band 2_15M 16QAM	7.7Vdc	973
LTE Band 2_20M QPSK	7.7Vdc	959
LTE Band 2_20M 16QAM	7.7Vdc	976

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Test Mode	DC voltage (V)	DC current (mA)
LTE Band 4_1.4M QPSK	7.7Vdc	906
LTE Band 4_1.4M 16QAM	7.7Vdc	926
LTE Band 4_3M QPSK	7.7Vdc	924
LTE Band 4_3M 16QAM	7.7Vdc	911
LTE Band 4_5M QPSK	7.7Vdc	935
LTE Band 4_5M 16QAM	7.7Vdc	903
LTE Band 4_10M QPSK	7.7Vdc	934
LTE Band 4_10M 16QAM	7.7Vdc	912
LTE Band 4_15M QPSK	7.7Vdc	954
LTE Band 4_15M 16QAM	7.7Vdc	973
LTE Band 4_20M QPSK	7.7Vdc	965
LTE Band 4_20M 16QAM	7.7Vdc	931

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 5_1.4M QPSK	7.7Vdc	954
LTE Band 5_1.4M 16QAM	7.7Vdc	961
LTE Band 5_3M QPSK	7.7Vdc	974
LTE Band 5_3M 16QAM	7.7Vdc	987
LTE Band 5_5M QPSK	7.7Vdc	966
LTE Band 5_5M 16QAM	7.7Vdc	968
LTE Band 5_10M QPSK	7.7Vdc	954
LTE Band 5_10M 16QAM	7.7Vdc	974

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Test Mode	DC voltage (V)	DC current (mA)
LTE Band 7_5M QPSK	7.7Vdc	964
LTE Band 7_5M 16QAM	7.7Vdc	974
LTE Band 7_10M QPSK	7.7Vdc	964
LTE Band 7_10M 16QAM	7.7Vdc	951
LTE Band 7_15M QPSK	7.7Vdc	964
LTE Band 7_15M 16QAM	7.7Vdc	988
LTE Band 7_20M QPSK	7.7Vdc	974
LTE Band 7_20M 16QAM	7.7Vdc	986

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 12_1.4M QPSK	7.7Vdc	954
LTE Band 12_1.4M 16QAM	7.7Vdc	974
LTE Band 12_3M QPSK	7.7Vdc	963
LTE Band 12_3M 16QAM	7.7Vdc	974
LTE Band 12_5M QPSK	7.7Vdc	965
LTE Band 12_5M 16QAM	7.7Vdc	977
LTE Band 12_10M QPSK	7.7Vdc	961
LTE Band 12_10M 16QAM	7.7Vdc	957

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Test Mode	DC voltage (V)	DC current (mA)
LTE Band 17_5M QPSK	7.7Vdc	964
LTE Band 17_5M 16QAM	7.7Vdc	955
LTE Band 17_10M QPSK	7.7Vdc	981
LTE Band 17_10M 16QAM	7.7Vdc	971

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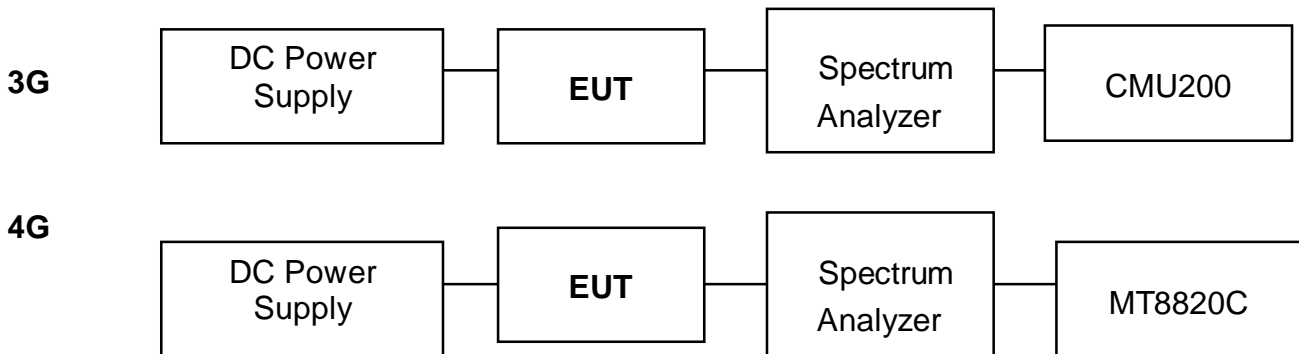
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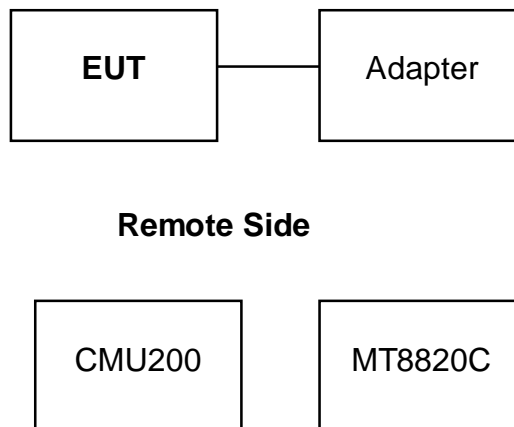
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## 2.6. Configuration of Tested System

**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	R&S	CMU200	102189	shielded	Un-shielded
2.	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)(2) §24.232(c) §27.50(c)(9) §27.50(d)(4) §27.50(h)(2)	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% & 26dB Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.50(c)(5) §27.53(h) §27.53(m)(4)(6)	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(g) §27.53(h) §27.53(m)(4)	Field Strength of Spurious Radiation	Compliant
§24.232(d) §27.53(d) (5) §27.50(i) (B)	Peak to Average Ratio	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54	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 and Wireless charging Cover
WCDMA/HSPA Band II	E2-plan	E2-plan
WCDMA/HSPA Band IV	E2-plan	E2-plan
WCDMA/HSPA Band V	E2-plan	E2-plan
LTE Band 2	E2-plan	E2-plan
LTE Band 4	E2-plan	E2-plan
LTE Band 5	E2-plan	E2-plan
LTE Band 7	E1-plan	E1-plan
LTE Band 12	E2-plan	E2-plan
LTE Band 17	E2-plan	E2-plan

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## WCDMA/HSPA MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
ERP	4132 to 4233	4132, 4183, 4233	WCDMA/HSPA Band V
EIRP	9262 to 9538 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 BANDWIDTH	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	Full RB
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	Full RB
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	Full RB
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	Full RB
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	Full RB
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	18607 to 19193	18607, 18900, 19193	1.4MHz	16QAM	Full RB
	18615 to 19185	18615, 18900, 19185	3MHz	16QAM	Full RB
	18625 to 19175	18625, 18900, 19175	5MHz	16QAM	Full RB
	18650 to 19150	18650, 18900, 19150	10MHz	16QAM	Full RB
	18675 to 19125	18675, 18900, 19125	15MHz	16QAM	Full RB
	18700 to 19100	18700, 18900, 19100	20MHz	16QAM	Full RB
BAND EDGE	18607 to 19193	18607, 19193	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	18615 to 19185	18615, 19185	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	18625 to 19175	18625, 19175	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	18650 to 19150	18650, 19150	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	18675 to 19125	18675, 19125	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	18700 to 19100	18700, 19100	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDCUDED EMISSION	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK,	1 RB, 0 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK,	1 RB, 0 RB Offest
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK,	1 RB, 0 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK,	1 RB, 0 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK,	1 RB, 0 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	18675 to 19125	18675, 18900, 19125	15MHz	16QAM	1 RB, 0 RB Offest

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**LTE Band 4 MODE**

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

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**LTE Band 5 MODE**

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

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**LTE Band 7 MODE**

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

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**LTE Band 17 MODE**

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23780 to 23800	23790	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM	Full RB
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	23755 to 23825	23755, 23790, 23825	5MHz	16QAM	Full RB
	23780 to 23800	23780, 23790, 23800	10MHz	16QAM	Full RB
BAND EDGE	23755 to 23825	23755, 23825	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	23780 to 23800	23780, 23800	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMISSION	23755 to 23825	23755, 23790, 23825	5MHz	QPSK,	1 RB, 0 RB Offest
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	23780 to 23800	23780, 23790, 23800	10MHz	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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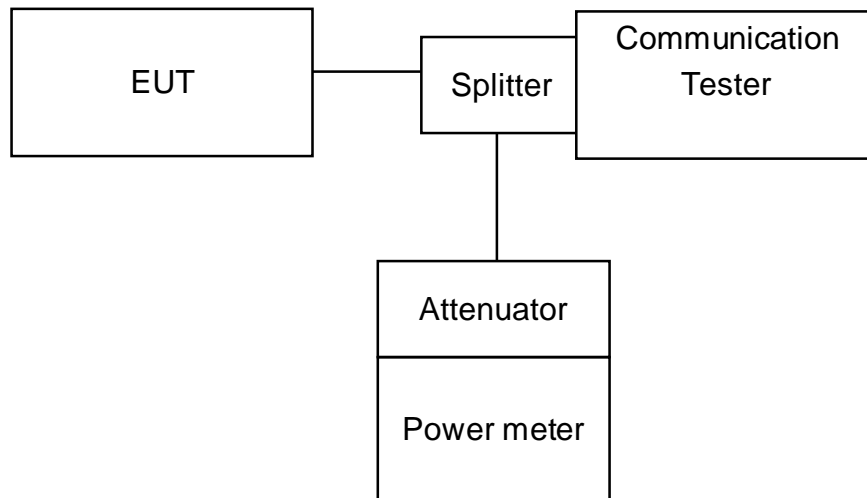
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## 6. RF CONDUCTED OUTPUT POWER MEASUREMENT

### 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.
Power Meter	Anritsu	ML2495A	1005007	12/09/2015	12/08/2016
Power Sensor	Anritsu	MA2411B	917032	12/09/2015	12/08/2016
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/02/2016	01/01/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017
Splitter	Agilent	11636B	N/A	01/02/2016	01/01/2017
DC Power Supply	Agilent	E3640A	MY52410006	11/05/2015	11/04/2016
Temperature Chamber	TERCHY	MHG-120LF	911009	05/17/2016	05/16/2017
Radio Communication Analyser	Anritsu	MT8820C	6201465317	12/10/2015	12/09/2016
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2016	02/10/2017

#### 6.5. Measurement Result

##### RF Conducted Output Power

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**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:**

EUT Mode		WCDMA Band II		HSDPA Band II		HSUPA Band II	
Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)
1852.4	9262	27.81	23.86	27.31	22.87	26.79	22.84
1880.0	9400	28.33	24.07	27.39	22.93	27.32	23.07
1907.6	9538	<b>28.81</b>	24.24	27.79	23.31	27.44	23.26

EUT Mode		WCDMA Band IV		HSDPA Band IV		HSUPA Band IV	
Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)
1712.4	1312	27.43	24.12	27.12	23.22	26.78	23.42
1732.6	1412	<b>27.60</b>	24.46	27.33	23.32	26.89	23.45
1752.6	1513	27.55	24.24	27.23	23.27	26.87	23.43

EUT Mode		WCDMA Band V		HSDPA Band V		HSUPA Band V	
Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)
826.4	4132	27.26	24.16	26.55	23.12	26.22	23.05
836.6	4183	27.61	24.26	26.84	23.17	26.40	23.33
846.6	4233	<b>27.65</b>	24.37	27.16	23.22	26.73	23.48

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**LTE Result:**

**LTE Band 2**

LTE Band 2 Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low)	Channel (Mid)	Channel (High)	Channel (Low)	Channel (Mid)	Channel (High)
			18607	18900	19193	18607	18900	19193
1.4	1	0	23.34	23.26	23.43	22.45	22.56	<b>22.63</b>
	1	5	23.44	23.29	23.47	22.18	22.33	22.43
	3	2	<b>23.58</b>	23.32	23.46	22.27	22.30	22.61
	6	0	22.51	22.38	22.55	21.37	21.23	21.37

LTE Band 2 Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low)	Channel (Mid)	Channel (High)	Channel (Low)	Channel (Mid)	Channel (High)
			18615	18900	19185	18615	18900	19185
3	1	0	23.43	23.40	23.43	22.43	21.94	22.08
	1	14	<b>23.52</b>	23.30	23.37	22.29	<b>22.44</b>	22.17
	8	4	22.42	22.28	22.46	21.40	21.26	21.32
	15	0	22.47	22.35	22.52	21.52	21.25	21.35

LTE Band 2 Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low)	Channel (Mid)	Channel (High)	Channel (Low)	Channel (Mid)	Channel (High)
			18625	18900	19175	18625	18900	19175
5	1	0	23.47	23.25	23.49	22.45	<b>22.54</b>	22.42
	1	24	23.06	23.38	<b>23.50</b>	22.03	22.53	22.21
	12	6	22.38	22.26	22.57	21.44	21.26	21.41
	25	0	22.47	22.19	22.51	21.45	21.24	21.46

LTE Band 2 Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low)	Channel (Mid)	Channel (High)	Channel (Low)	Channel (Mid)	Channel (High)
			18650	18900	19150	18650	18900	19150
10	1	0	23.34	23.15	23.35	<b>22.74</b>	22.48	22.29
	1	49	23.31	23.43	<b>23.61</b>	22.05	22.24	22.39
	25	12	22.30	22.41	22.46	21.23	21.23	21.35
	50	0	22.31	22.40	22.45	21.26	21.29	21.42

LTE Band 2 Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low)	Channel (Mid)	Channel (High)	Channel (Low)	Channel (Mid)	Channel (High)
			18675	18900	19125	18675	18900	19125
15	1	0	<b>23.69</b>	23.19	23.52	22.23	22.53	22.13
	1	74	23.23	23.50	23.58	<b>22.64</b>	22.27	22.15
	36	19	22.16	22.41	22.42	21.01	21.27	21.37
	75	0	22.40	22.39	22.50	21.21	21.23	21.34

LTE Band 2 Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low)	Channel (Mid)	Channel (High)	Channel (Low)	Channel (Mid)	Channel (High)
			18700	18900	19100	18700	18900	19100
20	1	0	<b>23.62</b>	23.43	23.40	<b>22.70</b>	22.11	22.63
	1	99	23.27	23.53	23.43	22.06	22.68	22.31
	50	25	22.30	22.42	22.44	21.19	21.30	21.36
	100	0	22.40	22.54	22.52	21.21	21.36	21.42

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**LTE Band 4**

LTE Band 4 Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low)	Channel (Mid)	Channel (High)	Channel (Low)	Channel (Mid)	Channel (High)
			19957	20175	20393	19957	20175	20393
1.4	1	0	23.43	23.57	23.25	22.63	22.42	22.42
	1	5	23.57	<b>23.66</b>	23.60	22.55	22.67	<b>22.86</b>
	3	2	23.45	23.63	23.51	22.61	22.63	22.37
	6	0	22.15	22.71	22.33	21.43	21.67	21.47

LTE Band 4 Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low)	Channel (Mid)	Channel (High)	Channel (Low)	Channel (Mid)	Channel (High)
			19965	20175	20385	19965	20175	20385
3	1	0	23.54	23.63	23.44	22.06	22.29	22.32
	1	14	23.20	<b>23.67</b>	23.53	22.30	22.51	<b>22.66</b>
	8	4	22.83	22.62	22.53	21.32	21.47	21.57
	15	0	22.78	22.68	22.48	21.27	21.60	21.74

LTE Band 4 Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low)	Channel (Mid)	Channel (High)	Channel (Low)	Channel (Mid)	Channel (High)
			19975	20175	20375	19975	20175	20375
5	1	0	<b>23.62</b>	23.58	23.43	22.35	22.72	22.74
	1	24	23.22	23.60	23.44	22.33	22.54	<b>23.00</b>
	12	6	22.37	22.62	22.62	21.46	21.76	21.44
	25	0	22.30	22.62	22.58	21.88	21.58	21.51

LTE Band 4 Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low)	Channel (Mid)	Channel (High)	Channel (Low)	Channel (Mid)	Channel (High)
			20000	20175	20350	20000	20175	20350
10	1	0	23.26	<b>23.76</b>	23.56	22.40	<b>22.91</b>	22.54
	1	49	23.56	23.62	23.37	22.83	22.15	22.49
	25	12	22.47	22.61	22.58	21.45	21.62	21.60
	50	0	22.53	22.77	23.00	21.53	21.67	21.61

LTE Band 4 Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low)	Channel (Mid)	Channel (High)	Channel (Low)	Channel (Mid)	Channel (High)
			20025	20175	20325	20025	20175	20325
15	1	0	23.47	23.77	23.56	22.72	22.65	<b>22.98</b>
	1	74	23.52	23.57	<b>24.00</b>	22.64	22.58	22.56
	36	19	22.66	22.65	22.70	21.52	21.73	21.52
	75	0	22.68	22.69	22.71	21.59	21.78	21.72

LTE Band 4 Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low)	Channel (Mid)	Channel (High)	Channel (Low)	Channel (Mid)	Channel (High)
			20050	20175	20300	20050	20175	20300
20	1	0	23.50	23.83	23.63	22.21	<b>22.94</b>	22.86
	1	99	23.54	23.69	<b>23.93</b>	22.57	22.02	22.28
	50	25	22.74	22.77	22.71	21.70	21.79	21.62
	100	0	22.89	22.75	22.79	21.85	21.68	21.73

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### LTE Band 5

LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low)	Channel (Mid)	Channel (High)	Channel (Low)	Channel (Mid)	Channel (High)
1.4	1	0	22.95	23.04	23.13	21.97	21.90	22.45
	1	5	23.01	23.24	<b>23.32</b>	21.89	<b>22.50</b>	22.31
	3	2	23.02	23.24	23.31	22.05	22.21	22.28
	6	0	22.14	22.25	22.30	20.96	21.17	21.17

LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low)	Channel (Mid)	Channel (High)	Channel (Low)	Channel (Mid)	Channel (High)
3	1	0	22.94	23.05	<b>23.31</b>	21.40	21.66	22.10
	1	14	23.05	23.25	23.20	22.31	22.04	<b>22.35</b>
	8	4	22.03	22.23	22.25	21.02	21.30	21.12
	15	0	22.00	22.21	22.19	21.08	21.20	21.22

LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low)	Channel (Mid)	Channel (High)	Channel (Low)	Channel (Mid)	Channel (High)
5	1	0	22.95	23.13	<b>23.23</b>	21.89	21.74	22.06
	1	24	23.00	23.22	23.19	21.82	<b>22.15</b>	22.03
	12	6	22.11	22.17	22.28	21.07	21.14	21.29
	25	0	22.03	22.25	22.24	21.06	21.24	21.18

LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low)	Channel (Mid)	Channel (High)	Channel (Low)	Channel (Mid)	Channel (High)
10	1	0	23.07	<b>23.46</b>	23.26	22.07	22.04	22.28
	1	49	23.12	23.20	23.18	22.00	<b>22.49</b>	22.44
	25	12	22.17	22.18	22.29	21.07	21.13	21.32
	50	0	22.18	22.35	22.35	21.10	21.21	21.33

### LTE Band 7

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low)	Channel (Mid)	Channel (High)	Channel (Low)	Channel (Mid)	Channel (High)
5	1	0	23.22	23.29	23.18	21.87	<b>22.35</b>	22.25
	1	24	23.04	<b>23.67</b>	23.08	21.81	22.26	22.32
	12	6	22.06	22.42	22.21	21.21	21.53	21.22
	25	0	21.99	22.49	22.20	21.17	21.48	21.24

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low)	Channel (Mid)	Channel (High)	Channel (Low)	Channel (Mid)	Channel (High)
10	1	0	<b>23.37</b>	23.16	23.25	22.31	22.34	22.26
	1	49	23.15	23.36	23.20	21.94	<b>22.37</b>	22.27
	25	12	22.09	22.47	22.27	21.17	21.47	21.31
	50	0	22.08	22.65	22.27	21.12	21.42	21.36

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low)	Channel (Mid)	Channel (High)	Channel (Low)	Channel (Mid)	Channel (High)
15	1	0	23.10	23.21	23.30	21.86	22.04	22.40
	1	74	23.15	<b>23.41</b>	23.20	<b>22.57</b>	22.15	22.45
	36	19	22.20	22.45	22.31	21.08	21.49	21.33
	75	0	22.19	22.44	22.22	21.18	21.47	21.27

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low)	Channel (Mid)	Channel (High)	Channel (Low)	Channel (Mid)	Channel (High)
20	1	0	23.27	23.45	23.45	22.33	<b>22.52</b>	22.12
	1	99	23.19	<b>23.51</b>	23.35	22.08	21.81	22.34
	50	25	22.28	22.51	22.41	21.25	21.52	21.34
	100	0	22.25	22.49	22.31	21.27	21.47	21.39

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**LTE Band 12**

LTE Band 12_Uplink frequency band : 699 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 23017	Channel (Mid) 23095	Channel (High) 23173	Channel (Low) 23017	Channel (Mid) 23095	Channel (High) 23173
1.4	1	0	22.88	22.83	23.11	21.71	22.14	21.67
	1	5	23.03	23.09	23.19	21.71	21.79	21.54
	3	2	23.04	<b>23.40</b>	23.29	22.01	22.13	<b>22.19</b>
	6	0	22.05	22.16	22.25	20.95	21.01	21.20

LTE Band 12_Uplink frequency band : 699 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 23025	Channel (Mid) 23095	Channel (High) 23165	Channel (Low) 23025	Channel (Mid) 23095	Channel (High) 23165
3	1	0	22.96	23.05	23.18	21.94	21.81	22.35
	1	14	23.05	23.13	<b>23.20</b>	21.62	22.24	<b>22.52</b>
	8	4	21.96	22.25	22.17	20.99	21.29	21.32
	15	0	21.96	22.19	22.25	20.92	20.91	21.18

LTE Band 12_Uplink frequency band : 699 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 23035	Channel (Mid) 23095	Channel (High) 23155	Channel (Low) 23035	Channel (Mid) 23095	Channel (High) 23155
5	1	0	22.89	22.95	<b>23.20</b>	22.20	22.36	22.22
	1	24	23.14	23.04	23.11	<b>22.47</b>	22.02	22.21
	12	6	22.08	22.24	22.19	21.09	21.38	21.07
	25	0	22.00	21.93	22.21	20.70	21.34	21.14

LTE Band 12_Uplink frequency band : 699 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 23060	Channel (Mid) 23095	Channel (High) 23130	Channel (Low) 23060	Channel (Mid) 23095	Channel (High) 23130
10	1	0	22.93	22.96	23.05	22.18	<b>22.26</b>	22.21
	1	49	<b>23.31</b>	23.19	23.12	22.12	22.10	21.84
	25	12	22.03	22.04	22.08	20.99	21.09	21.12
	50	0	22.27	22.10	22.23	21.33	21.08	21.15

**LTE Band 17**

LTE Band 17_Uplink frequency band : 704 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 23755	Channel (Mid) 23790	Channel (High) 23825	Channel (Low) 23755	Channel (Mid) 23790	Channel (High) 23825
5	1	0	22.84	23.14	23.04	22.22	22.10	21.55
	1	24	23.14	<b>23.15</b>	23.07	<b>22.23</b>	<b>22.23</b>	21.94
	12	6	22.07	22.08	22.13	21.20	21.13	21.19
	25	0	22.07	22.11	22.06	21.15	21.12	21.19

LTE Band 17_Uplink frequency band : 704 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 23780	Channel (Mid) 23790	Channel (High) 23800	Channel (Low) 23780	Channel (Mid) 23790	Channel (High) 23800
10	1	0	22.76	22.68	23.07	21.62	21.83	22.05
	1	49	<b>23.17</b>	23.06	23.08	<b>22.40</b>	21.62	22.03
	25	12	22.14	22.14	21.94	21.13	21.15	20.97
	50	0	22.11	22.15	22.19	21.04	21.05	21.05

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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

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

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**Results:**

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Lim- itation (dBm)	Comments
		9262	9400	9538		
HSDPA (B2)	1	24.03	23.96	<b>24.10</b>	20.3dBm – 25.7dBm	Pass
	2	23.74	23.93	24.09	20.3dBm – 25.7dBm	Pass
	3	23.55	23.51	23.57	19.8dBm – 25.7dBm	Pass
	4	23.62	23.52	23.69	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Lim- itation (dBm)	Comments
		1312	1413	1513		
HSDPA (B4)	1	23.91	24.32	<b>24.36</b>	20.3dBm – 25.7dBm	Pass
	2	24.05	24.35	24.11	20.3dBm – 25.7dBm	Pass
	3	23.45	23.84	23.87	19.8dBm – 25.7dBm	Pass
	4	23.50	23.88	23.93	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Lim- itation (dBm)	Comments
		4132	4183	4233		
HSDPA (B5)	1	23.95	24.12	<b>24.49</b>	20.3dBm – 25.7dBm	Pass
	2	24.09	24.15	24.24	20.3dBm – 25.7dBm	Pass
	3	23.49	23.64	24.00	19.8dBm – 25.7dBm	Pass
	4	23.54	23.68	24.06	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.

### Results:

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		9262	9400	9538		
HSUPA(B2)	1	23.78	24.05	24.18	18.8dBm – 25.7dBm	Pass
	2	21.83	22.12	22.22	16.8dBm – 25.7dBm	Pass
	3	22.84	23.07	23.26	17.8dBm – 25.7dBm	Pass
	4	21.96	22.17	22.26	16.8dBm – 25.7dBm	Pass
	5	23.67	23.91	24.09	18.8dBm – 25.7dBm	Pass

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Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Lim- itation (dBm)	Comments
		1312	1413	1513		
HSDPA (B4)	1	24.08	<b>24.39</b>	24.16	20.3dBm – 25.7dBm	<b>Pass</b>
	2	22.14	22.47	22.20	20.3dBm – 25.7dBm	<b>Pass</b>
	3	23.12	23.45	23.24	19.8dBm – 25.7dBm	<b>Pass</b>
	4	22.19	22.53	22.28	19.8dBm – 25.7dBm	<b>Pass</b>
	5	23.94	24.22	24.05	19.8dBm – 25.7dBm	<b>Pass</b>

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Lim- itation (dBm)	Comments
		4132	4183	4233		
HSUPA(B5)	1	24.12	24.19	<b>24.29</b>	18.8dBm – 25.7dBm	<b>Pass</b>
	2	22.18	22.27	22.33	16.8dBm – 25.7dBm	<b>Pass</b>
	3	23.16	23.25	23.37	17.8dBm – 25.7dBm	<b>Pass</b>
	4	22.23	22.33	22.41	16.8dBm – 25.7dBm	<b>Pass</b>
	5	23.98	24.02	24.18	18.8dBm – 25.7dBm	<b>Pass</b>

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

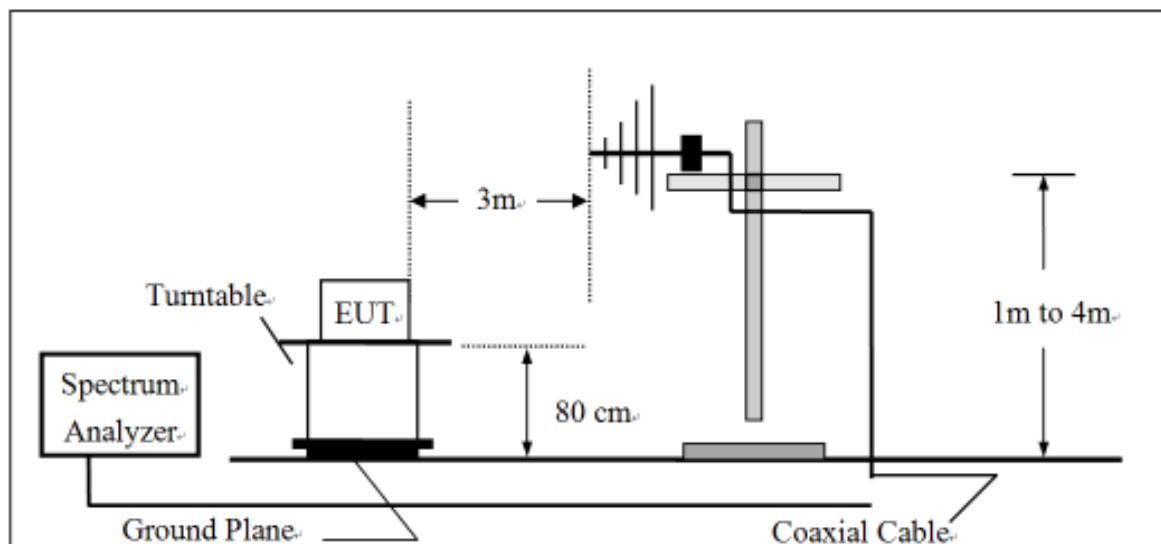
FCC 27.50(c) (9) Control stations and mobile stations are limited to 30 watts ERP.

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

### 7.2. Test SET-UP

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



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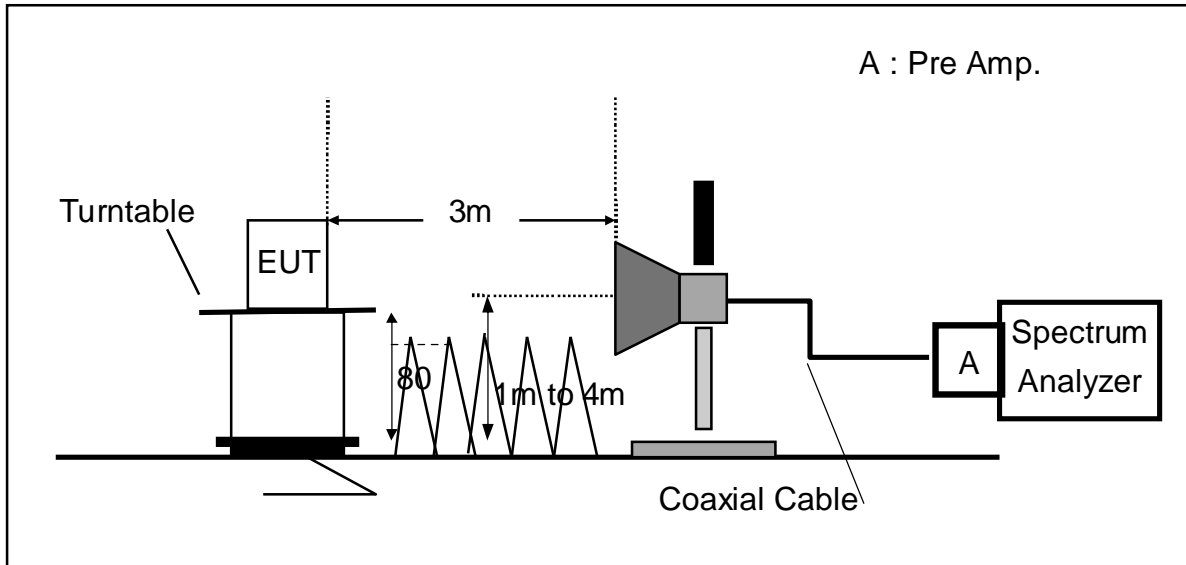
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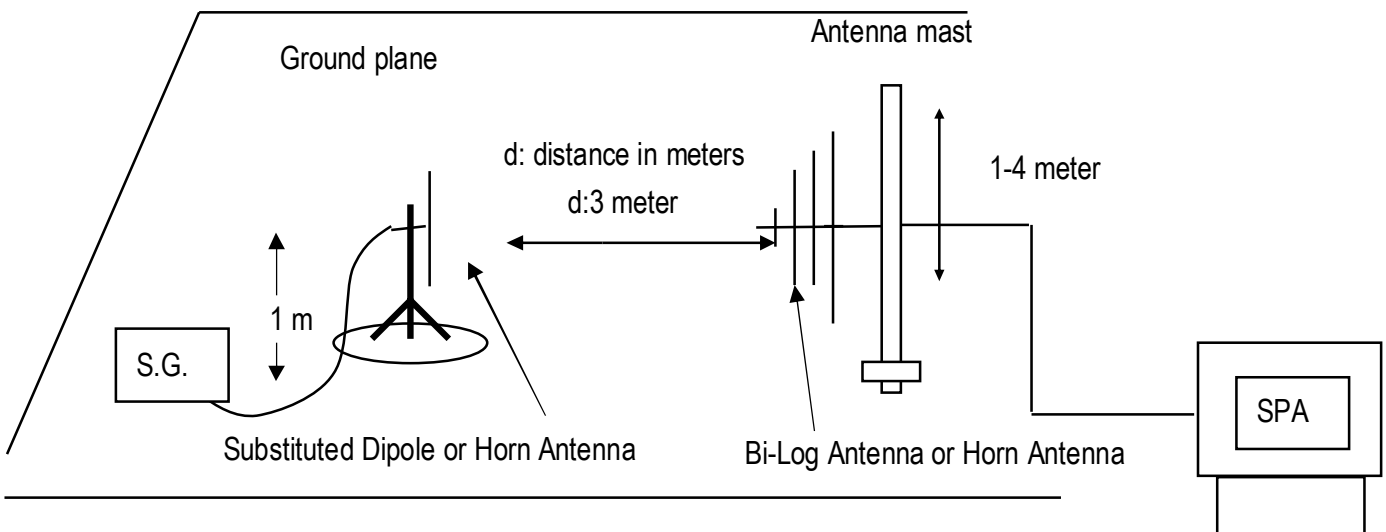
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(B) Radiated Power Test Set-UP Frequency Over 1 GHz



(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.  $ERP = S.G. \text{ output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$
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	ESCI7	100760	05/10/2016	05/09/2017
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2016	01/28/2017
Loop Antenna	ETS.LINDGREN	6502	148045	09/07/2015	09/06/2016
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/14/2015	12/13/2016
Bi-log Antenna	SCHWAZBECK	VULB9168	300	12/12/2015	12/11/2016
Horn Antenna	SCHWAZBECK	BBHA9120D	1441	08/10/2015	08/09/2016
Horn Antenna	SCHWAZBECK	BBHA9170	185	07/18/2016	07/17/2017
Pre-Amplifier	Agilent	8447D	2944A07676	01/02/2016	01/01/2017
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/02/2016	01/01/2017
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	ChamPro	AM-BS-4500-B	060776-ABS	N.C.R	N.C.R
Controller	ChamPro	EM1000	60776	N.C.R	N.C.R
Low Loss Cable	Huber Suhner	966_RX	9	01/02/2016	01/01/2017
3m Site NSA	SGS	966 chamber	N/A	07/01/2016	06/30/2017
Low Loss Cable	Huber Suhner	966 TX	1	01/02/2016	01/01/2017
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2016	02/10/2017
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	09/25/2015	09/24/2016
Radio Communication Analyzer	Anritsu	MT8820C	6201465317	12/10/2015	12/09/2016
Signal Generator	Agilent	E4438C	MY45093613	07/07/2016	07/06/2017
Filter 800-1000	Micro-Tronics	EWT	M1	01/02/2016	01/01/2017
Filter 1800-2000	Micro-Tronics	EWT	M1	01/02/2016	01/01/2017
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	01/02/2016	01/01/2017
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	01/02/2016	01/01/2017

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

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 B2	1852.4	9262	V	14.69	9.95	-4.46	20.18	33.00
			H	18.18	9.95	-4.46	23.66	33.00
	1880.0	9400	V	17.61	10.04	-4.51	23.13	33.00
			H	20.89	10.03	-4.51	<b>26.42</b>	33.00
	1907.6	9538	V	14.62	10.12	-4.55	20.19	33.00
			H	18.92	10.12	-4.55	24.50	33.00

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 B2	1852.4	9262	V	14.64	9.95	-4.46	20.12	33.00
			H	17.31	9.95	-4.46	22.79	33.00
	1880.0	9400	V	15.99	10.03	-4.51	21.51	33.00
			H	18.39	10.03	-4.51	<b>23.91</b>	33.00
	1907.6	9538	V	16.04	10.12	-4.55	21.61	33.00
			H	16.77	10.12	-4.55	22.34	33.00

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 B2	1852.4	9262	V	13.91	9.95	-4.46	19.39	33.00
			H	16.59	9.95	-4.46	22.07	33.00
	1880.0	9400	V	12.87	10.03	-4.51	18.39	33.00
			H	17.68	10.03	-4.51	23.20	33.00
	1907.6	9538	V	14.20	10.12	-4.55	19.77	33.00
			H	17.71	10.12	-4.55	<b>23.28</b>	33.00

**Remark :**

- (1) The RBW,VBW of SPA for frequency RBW= 5MHz , 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
WCDMA B4	1712.4	1312	V	16.81	9.48	-4.31	21.98	30.00
			H	22.79	9.48	-4.31	<b>27.97</b>	30.00
	1732.6	1413	V	17.06	9.55	-4.31	22.30	30.00
			H	21.09	9.55	-4.31	26.33	30.00
	1752.6	1513	V	16.85	9.62	-4.34	22.14	30.00
			H	19.95	9.62	-4.34	25.23	30.00

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 B4	1712.4	1312	V	16.75	9.48	-4.31	21.92	30.00
			H	20.48	9.48	-4.31	<b>25.65</b>	30.00
	1732.6	1413	V	17.33	9.55	-4.31	22.57	30.00
			H	19.47	9.55	-4.31	24.71	30.00
	1752.6	1513	V	15.86	9.62	-4.34	21.14	30.00
			H	18.58	9.62	-4.34	23.86	30.00

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 B4	1712.4	1312	V	15.40	9.48	-4.31	20.57	30.00
			H	19.38	9.48	-4.31	<b>24.55</b>	30.00
	1732.6	1413	V	15.59	9.55	-4.31	20.83	30.00
			H	19.09	9.55	-4.31	24.33	30.00
	1752.6	1513	V	15.74	9.62	-4.34	21.02	30.00
			H	17.83	9.62	-4.33	23.11	30.00

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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
WCDMA B5	826.4	4132	V	13.62	3.30	-2.93	13.99	38.45
			H	20.25	3.30	-2.93	<b>20.62</b>	38.45
	836.6	4183	V	16.09	3.29	-2.97	16.40	38.45
			H	18.33	3.29	-2.96	18.66	38.45
	846.6	4233	V	14.63	3.27	-3.00	14.90	38.45
			H	17.24	3.27	-3.00	17.52	38.45

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 B5	826.4	4132	V	13.30	3.30	-2.93	13.67	38.45
			H	19.26	3.30	-2.93	<b>19.64</b>	38.45
	836.6	4183	V	11.78	3.29	-2.96	12.10	38.45
			H	16.15	3.29	-2.96	16.48	38.45
	846.6	4233	V	13.51	3.27	-3.00	13.79	38.45
			H	17.86	3.27	-3.00	18.13	38.45

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 B5	826.4	4132	V	13.26	3.30	-2.93	13.64	38.45
			H	16.52	3.30	-2.93	16.89	38.45
	836.6	4183	V	12.66	3.29	-2.96	12.99	38.45
			H	16.02	3.29	-2.96	16.34	38.45
	846.6	4233	V	12.98	3.27	-3.00	13.25	38.45
			H	17.32	3.27	-3.00	<b>17.60</b>	38.45

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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
<b>BAND 2</b> <b>BW: 1.4M</b> <b>QPSK</b> <b>RB: 1,0</b>	1850.7	18607	V	15.74	9.95	-4.46	21.22	33.01
			H	18.16	9.95	-4.46	23.64	33.01
	1880.0	18900	V	16.78	10.03	-4.51	22.30	33.01
			H	19.93	10.03	-4.51	<b>25.45</b>	33.01
	1909.3	19193	V	15.54	10.12	-4.55	21.11	33.01
			H	17.76	10.12	-4.55	23.33	33.01
<b>BAND 2</b> <b>BW: 1.4M</b> <b>QPSK</b> <b>RB: 1,5</b>	1850.7	18607	V	15.67	9.94	-4.46	21.15	33.01
			H	18.08	9.94	-4.46	23.56	33.01
	1880.0	18900	V	16.58	10.03	-4.51	22.10	33.01
			H	19.82	10.03	-4.51	<b>25.34</b>	33.01
	1909.3	19193	V	15.15	10.12	-4.55	20.72	33.01
			H	17.42	10.12	-4.55	22.99	33.01
<b>BAND 2</b> <b>BW: 1.4M</b> <b>16QAM</b> <b>RB: 1,0</b>	1850.7	18607	V	15.84	9.95	-4.46	21.32	33.01
			H	18.23	9.95	-4.46	23.72	33.01
	1880.0	18900	V	16.99	10.03	-4.51	22.51	33.01
			H	20.17	10.03	-4.51	<b>25.70</b>	33.01
	1909.3	19193	V	15.65	10.12	-4.55	21.23	33.01
			H	17.88	10.12	-4.55	23.45	33.01
<b>BAND 2</b> <b>BW: 1.4M</b> <b>16QAM</b> <b>RB: 1,5</b>	1850.7	18607	V	15.81	9.94	-4.46	21.28	33.01
			H	18.18	9.94	-4.46	23.66	33.01
	1880.0	18900	V	16.81	10.03	-4.51	22.34	33.01
			H	20.03	10.03	-4.51	<b>25.55</b>	33.01
	1909.3	19193	V	15.01	10.12	-4.55	20.58	33.01
			H	17.53	10.12	-4.55	23.10	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
<b>BAND 2 BW: 3M QPSK RB: 1,0</b>	1851.5	18615	V	16.28	9.95	-4.46	21.76	33.01
			H	18.71	9.95	-4.46	24.19	33.01
	1880.0	18900	V	17.21	10.03	-4.50	22.73	33.01
			H	20.28	10.03	-4.50	<b>25.80</b>	33.01
	1908.5	19185	V	16.49	10.11	-4.54	22.06	33.01
			H	18.57	10.11	-4.55	24.14	33.01
<b>BAND 2 BW: 3M QPSK RB: 1,14</b>	1851.5	18615	V	15.69	9.94	-4.46	21.17	33.01
			H	18.41	9.94	-4.46	23.89	33.01
	1880.0	18900	V	16.68	10.03	-4.51	22.21	33.01
			H	19.91	10.03	-4.51	<b>25.44</b>	33.01
	1908.5	19185	V	15.45	10.12	-4.55	21.02	33.01
			H	17.64	10.12	-4.55	23.22	33.01
<b>BAND 2 BW: 3M 16QAM RB: 1,0</b>	1851.5	18615	V	16.24	9.95	-4.46	21.72	33.01
			H	18.86	9.95	-4.46	24.34	33.01
	1880.0	18900	V	17.20	10.02	-4.50	22.72	33.01
			H	20.43	10.03	-4.50	<b>25.95</b>	33.01
	1908.5	19185	V	16.62	10.11	-4.55	22.18	33.01
			H	18.69	10.11	-4.55	24.26	33.01
<b>BAND 2 BW: 3M 16QAM RB: 1,14</b>	1851.5	18615	V	15.76	9.94	-4.46	21.24	33.01
			H	18.30	9.94	-4.46	23.78	33.01
	1880.0	18900	V	16.81	10.03	-4.51	22.33	33.01
			H	20.11	10.03	-4.51	<b>25.63</b>	33.01
	1908.5	19185	V	15.30	10.12	-4.55	20.88	33.01
			H	17.52	10.12	-4.55	23.09	33.01

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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
<b>BAND 2 BW: 5M QPSK RB: 1,0</b>	1852.5	18625	V	15.82	9.95	-4.46	21.31	33.01
			H	18.63	9.95	-4.46	24.11	33.01
	1880.0	18900	V	17.42	10.02	-4.50	22.94	33.01
			H	20.29	10.02	-4.50	<b>25.81</b>	33.01
	1907.5	19175	V	17.09	10.11	-4.54	22.66	33.01
			H	19.09	10.11	-4.54	24.66	33.01
<b>BAND 2 BW: 5M QPSK RB: 1,24</b>	1852.5	18625	V	15.05	9.95	-4.46	20.54	33.01
			H	18.07	9.95	-4.46	23.55	33.01
	1880.0	18900	V	16.58	10.04	-4.51	22.10	33.01
			H	19.75	10.04	-4.51	<b>25.28</b>	33.01
	1907.5	19175	V	15.54	10.12	-4.55	21.12	33.01
			H	17.75	10.12	-4.55	23.32	33.01
<b>BAND 2 BW: 5M 16QAM RB: 1,0</b>	1852.5	18625	V	16.01	9.95	-4.46	21.49	33.01
			H	18.86	9.95	-4.46	24.35	33.01
	1880.0	18900	V	17.53	10.02	-4.50	23.05	33.01
			H	20.42	10.02	-4.50	<b>25.94</b>	33.01
	1907.5	19175	V	17.20	10.11	-4.54	22.77	33.01
			H	19.16	10.11	-4.54	24.72	33.01
<b>BAND 2 BW: 5M 16QAM RB: 1,24</b>	1852.5	18625	V	15.12	9.95	-4.46	20.60	33.01
			H	18.16	9.95	-4.46	23.64	33.01
	1880.0	18900	V	16.82	10.04	-4.51	22.35	33.01
			H	19.99	10.04	-4.51	<b>25.51</b>	33.01
	1907.5	19175	V	15.42	10.12	-4.55	21.00	33.01
			H	17.54	10.12	-4.55	23.12	33.01

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台灣檢驗科技股份有限公司

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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
<b>BAND 2 BW: 10M QPSK RB: 1,0</b>	1855.0	18650	V	15.63	9.95	-4.46	21.11	33.01
			H	18.69	9.95	-4.46	24.17	33.01
	1880.0	18900	V	17.47	10.01	-4.50	22.99	33.01
			H	20.28	10.02	-4.50	<b>25.80</b>	33.01
	1905.0	19150	V	16.86	10.09	-4.54	22.41	33.01
			H	18.98	10.09	-4.54	24.54	33.01
<b>BAND 2 BW: 10M QPSK RB: 1,49</b>	1855.0	18650	V	14.38	9.96	-4.47	19.87	33.01
			H	17.80	9.96	-4.47	23.29	33.01
	1880.0	18900	V	15.87	10.04	-4.51	21.40	33.01
			H	19.24	10.04	-4.51	<b>24.77</b>	33.01
	1905.0	19150	V	15.53	10.12	-4.55	21.10	33.01
			H	17.73	10.12	-4.55	23.30	33.01
<b>BAND 2 BW: 10M 16QAM RB: 1,0</b>	1855.0	18650	V	15.89	9.95	-4.46	21.37	33.01
			H	18.85	9.95	-4.46	24.33	33.01
	1880.0	18900	V	17.76	10.02	-4.50	23.28	33.01
			H	20.64	10.01	-4.50	<b>26.15</b>	33.01
	1905.0	19150	V	16.94	10.09	-4.54	22.50	33.01
			H	19.29	10.09	-4.54	24.85	33.01
<b>BAND 2 BW: 10M 16QAM RB: 1,49</b>	1855.0	18650	V	14.42	9.97	-4.47	19.92	33.01
			H	17.96	9.96	-4.47	23.45	33.01
	1880.0	18900	V	16.11	10.04	-4.51	21.64	33.01
			H	19.53	10.04	-4.51	<b>25.06</b>	33.01
	1905.0	19150	V	15.85	10.12	-4.55	21.42	33.01
			H	18.05	10.12	-4.55	23.62	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
<b>BAND 2 BW: 15M QPSK RB: 1,0</b>	1857.5	18675	V	15.73	9.94	-4.46	21.21	33.01
			H	19.23	9.95	-4.46	24.71	33.01
	1880.0	18900	V	15.60	10.01	-4.50	21.11	33.01
			H	20.20	10.01	-4.50	<b>25.71</b>	33.01
	1902.5	19125	V	14.49	10.08	-4.53	20.04	33.01
			H	18.52	10.08	-4.53	24.07	33.01
<b>BAND 2 BW: 15M QPSK RB: 1,74</b>	1857.5	18675	V	14.92	9.98	-4.48	20.42	33.01
			H	18.36	9.98	-4.48	23.86	33.01
	1880.0	18900	V	13.76	10.05	-4.52	19.29	33.01
			H	18.87	10.05	-4.52	<b>24.41</b>	33.01
	1902.5	19125	V	14.20	10.12	-4.55	19.77	33.01
			H	18.35	10.12	-4.55	23.93	33.01
<b>BAND 2 BW: 15M 16QAM RB: 1,0</b>	1857.5	18675	V	15.93	9.95	-4.46	21.41	33.01
			H	19.48	9.95	-4.46	24.96	33.01
	1880.0	18900	V	15.84	10.01	-4.50	21.35	33.01
			H	20.45	10.01	-4.50	<b>25.96</b>	33.01
	1902.5	19125	V	14.25	10.08	-4.53	19.80	33.01
			H	17.96	10.08	-4.53	23.51	33.01
<b>BAND 2 BW: 15M 16QAM RB: 1,74</b>	1857.5	18675	V	15.10	9.98	-4.48	20.60	33.01
			H	18.52	9.98	-4.48	24.02	33.01
	1880.0	18900	V	14.06	10.05	-4.52	19.59	33.01
			H	19.17	10.05	-4.52	<b>24.71</b>	33.01
	1902.5	19125	V	14.55	10.12	-4.55	20.12	33.01
			H	18.70	10.12	-4.55	24.27	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
<b>BAND 2 BW: 20M QPSK RB: 1,0</b>	1860.0	18700	V	14.29	9.94	-4.46	19.77	33.01
			H	18.95	9.94	-4.46	24.43	33.01
	1880.0	18900	V	15.16	10.00	-4.49	20.68	33.01
			H	19.60	10.00	-4.49	<b>25.11</b>	33.01
	1900.0	19100	V	14.04	10.07	-4.52	19.58	33.01
			H	18.15	10.07	-4.52	23.69	33.01
<b>BAND 2 BW: 20M QPSK RB: 1,99</b>	1860.0	18700	V	14.79	9.99	-4.49	20.30	33.01
			H	18.93	9.99	-4.49	<b>24.44</b>	33.01
	1880.0	18900	V	13.50	10.06	-4.52	19.04	33.01
			H	18.43	10.06	-4.52	23.96	33.01
	1900.0	19100	V	14.21	10.12	-4.55	19.79	33.01
			H	18.52	10.12	-4.55	24.09	33.01
<b>BAND 2 BW: 20M 16QAM RB: 1,0</b>	1860.0	18700	V	14.41	9.95	-4.47	19.90	33.01
			H	19.18	9.94	-4.46	24.66	33.01
	1880.0	18900	V	15.39	10.01	-4.50	20.90	33.01
			H	19.85	10.01	-4.50	<b>25.37</b>	33.01
	1900.0	19100	V	14.13	10.08	-4.53	19.68	33.01
			H	18.35	10.08	-4.53	23.89	33.01
<b>BAND 2 BW: 20M 16QAM RB: 1,99</b>	1860.0	18700	V	15.10	9.99	-4.49	20.61	33.01
			H	19.24	9.99	-4.49	<b>24.74</b>	33.01
	1880.0	18900	V	13.84	10.06	-4.52	19.38	33.01
			H	18.74	10.06	-4.52	24.28	33.01
	1900.0	19100	V	14.58	10.12	-4.55	20.15	33.01
			H	18.85	10.12	-4.55	24.42	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
<b>BAND 4 BW: 1.4M/ QPSK RB: 1,0</b>	1710.7	19957	V	14.01	9.48	-4.31	19.18	30.00
			H	18.98	9.48	-4.31	<b>24.15</b>	30.00
	1732.5	20175	V	14.36	9.54	-4.31	19.60	30.00
			H	18.88	9.54	-4.31	24.11	30.00
	1754.3	20393	V	13.91	9.62	-4.34	19.19	30.00
			H	18.42	9.62	-4.34	23.70	30.00
<b>BAND 4 BW: 1.4M QPSK RB: 1,5</b>	1710.7	19957	V	13.93	9.47	-4.31	19.10	30.00
			H	19.12	9.47	-4.31	<b>24.29</b>	30.00
	1732.5	20175	V	14.47	9.55	-4.31	19.71	30.00
			H	19.00	9.55	-4.31	24.24	30.00
	1754.3	20393	V	13.67	9.62	-4.34	18.96	30.00
			H	18.25	9.62	-4.34	23.53	30.00
<b>BAND 4 BW: 1.4M 16QAM RB: 1,0</b>	1710.7	19957	V	14.11	9.48	-4.31	19.28	30.00
			H	19.12	9.48	-4.31	<b>24.29</b>	30.00
	1732.5	20175	V	14.38	9.54	-4.31	19.61	30.00
			H	18.94	9.55	-4.31	24.17	30.00
	1754.3	20393	V	14.05	9.62	-4.33	19.33	30.00
			H	18.66	9.62	-4.33	23.94	30.00
<b>BAND 4 BW: 1.4M 16QAM RB: 1,5</b>	1710.7	19957	V	14.15	9.47	-4.31	19.32	30.00
			H	19.26	9.47	-4.31	<b>24.42</b>	30.00
	1732.5	20175	V	14.53	9.55	-4.31	19.76	30.00
			H	19.10	9.55	-4.31	24.34	30.00
	1754.3	20393	V	13.99	9.62	-4.34	19.28	30.00
			H	18.58	9.62	-4.34	23.87	30.00

**Remark :**

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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
<b>BAND 4 BW: 3M QPSK RB: 1,0</b>	1711.5	19965	V	13.90	9.48	-4.31	19.07	30.00
			H	19.04	9.48	-4.31	24.21	30.00
	1732.5	20175	V	14.07	9.54	-4.31	19.30	30.00
			H	19.00	9.54	-4.31	<b>24.24</b>	30.00
	1753.5	20385	V	14.25	9.61	-4.33	19.53	30.00
			H	18.76	9.61	-4.33	24.04	30.00
<b>BAND 4 BW: 3M QPSK RB: 1,14</b>	1711.5	19965	V	13.80	9.48	-4.31	18.96	30.00
			H	19.06	9.48	-4.31	24.22	30.00
	1732.5	20175	V	14.20	9.55	-4.31	19.44	30.00
			H	19.24	9.55	-4.31	<b>24.48</b>	30.00
	1753.5	20385	V	13.91	9.62	-4.34	19.20	30.00
			H	18.35	9.62	-4.34	23.64	30.00
<b>BAND 4 BW: 3M 16QAM RB: 1,0</b>	1711.5	19965	V	14.02	9.48	-4.31	19.19	30.00
			H	19.18	9.48	-4.31	24.35	30.00
	1732.5	20175	V	14.03	9.54	-4.31	19.26	30.00
			H	19.07	9.54	-4.31	24.30	30.00
	1753.5	20385	V	14.43	9.61	-4.33	19.71	30.00
			H	19.09	9.61	-4.33	<b>24.37</b>	30.00
<b>BAND 4 BW: 3M 16QAM RB: 1,14</b>	1711.5	19965	V	13.97	9.48	-4.31	19.13	30.00
			H	19.20	9.48	-4.31	24.37	30.00
	1732.5	20175	V	14.30	9.55	-4.31	19.54	30.00
			H	19.34	9.55	-4.31	<b>24.58</b>	30.00
	1753.5	20385	V	14.25	9.62	-4.34	19.53	30.00
			H	18.68	9.62	-4.34	23.97	30.00

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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
<b>BAND 4 BW: 5M QPSK RB: 1,0</b>	1712.5	19975	V	14.00	9.48	-4.31	19.17	30.00
			H	19.16	9.48	-4.31	24.33	30.00
	1732.5	20175	V	13.43	9.54	-4.31	18.66	30.00
			H	18.96	9.54	-4.31	24.19	30.00
	1752.5	20375	V	13.89	9.61	-4.33	19.17	30.00
			H	19.22	9.61	-4.33	<b>24.50</b>	30.00
<b>BAND 4 BW: 5M QPSK RB: 1,24</b>	1712.5	19975	V	13.76	9.48	-4.31	18.93	30.00
			H	18.96	9.48	-4.31	24.13	30.00
	1732.5	20175	V	13.63	9.55	-4.31	18.88	30.00
			H	19.38	9.55	-4.31	<b>24.63</b>	30.00
	1752.5	20375	V	13.19	9.62	-4.34	18.47	30.00
			H	18.54	9.62	-4.34	23.83	30.00
<b>BAND 4 BW: 5M 16QAM RB: 1,0</b>	1712.5	19975	V	14.14	9.48	-4.31	19.31	30.00
			H	19.25	9.48	-4.31	24.42	30.00
	1732.5	20175	V	13.47	9.54	-4.31	18.70	30.00
			H	19.01	9.54	-4.31	24.24	30.00
	1752.5	20375	V	14.08	9.61	-4.33	19.36	30.00
			H	19.44	9.61	-4.33	<b>24.72</b>	30.00
<b>BAND 4 BW: 5M 16QAM RB: 1,24</b>	1712.5	19975	V	13.91	9.48	-4.31	19.09	30.00
			H	19.11	9.48	-4.31	24.28	30.00
	1732.5	20175	V	13.79	9.55	-4.31	19.03	30.00
			H	19.54	9.55	-4.31	<b>24.78</b>	30.00
	1752.5	20375	V	13.50	9.62	-4.34	18.78	30.00
			H	18.88	9.62	-4.34	24.16	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
<b>BAND 4 BW: 10M QPSK RB: 1,0</b>	1715.0	20000	V	13.83	9.48	-4.31	19.00	30.00
			H	18.75	9.48	-4.31	23.92	30.00
	1732.5	20175	V	13.23	9.54	-4.31	18.46	30.00
			H	18.35	9.54	-4.31	23.58	30.00
	1750.0	20350	V	12.90	9.60	-4.33	18.18	30.00
			H	19.25	9.60	-4.33	<b>24.53</b>	30.00
<b>BAND 4 BW: 10M QPSK RB: 1,49</b>	1715.0	20000	V	13.63	9.50	-4.31	18.82	30.00
			H	18.20	9.50	-4.31	23.39	30.00
	1732.5	20175	V	12.99	9.56	-4.31	18.24	30.00
			H	19.29	9.56	-4.31	<b>24.54</b>	30.00
	1750.0	20350	V	12.53	9.62	-4.34	17.81	30.00
			H	18.53	9.62	-4.34	23.81	30.00
<b>BAND 4 BW: 10M 16QAM RB: 1,0</b>	1715.0	20000	V	14.07	9.48	-4.31	19.24	30.00
			H	19.00	9.48	-4.31	24.17	30.00
	1732.5	20175	V	13.43	9.54	-4.31	18.66	30.00
			H	18.54	9.54	-4.31	23.78	30.00
	1750.0	20350	V	13.14	9.60	-4.33	18.41	30.00
			H	19.43	9.60	-4.33	<b>24.71</b>	30.00
<b>BAND 4 BW: 10M 16QAM RB: 1,49</b>	1715.0	20000	V	13.78	9.50	-4.31	18.97	30.00
			H	18.36	9.50	-4.31	23.55	30.00
	1732.5	20175	V	13.17	9.56	-4.31	18.42	30.00
			H	19.50	9.56	-4.31	<b>24.75</b>	30.00
	1750.0	20350	V	12.93	9.62	-4.34	18.22	30.00
			H	18.90	9.62	-4.34	24.18	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
<b>BAND 4</b> <b>BW: 15M</b> <b>QPSK</b> <b>RB: 1,0</b>	1717.5	20025	V	13.87	9.48	-4.31	19.04	30.00
			H	18.65	9.48	-4.31	23.82	30.00
	1732.5	20175	V	13.35	9.53	-4.31	18.57	30.00
			H	18.18	9.53	-4.31	23.40	30.00
	1747.5	20325	V	12.73	9.59	-4.32	18.00	30.00
			H	19.35	9.59	-4.32	<b>24.62</b>	30.00
<b>BAND 4</b> <b>BW: 15M</b> <b>QPSK</b> <b>RB: 1,74</b>	1717.5	20025	V	13.59	9.52	-4.31	18.79	30.00
			H	18.16	9.52	-4.31	23.37	30.00
	1732.5	20175	V	12.91	9.57	-4.31	18.16	30.00
			H	19.48	9.57	-4.31	<b>24.74</b>	30.00
	1747.5	20325	V	12.29	9.62	-4.34	17.57	30.00
			H	18.51	9.62	-4.34	23.79	30.00
<b>BAND 4</b> <b>BW: 15M</b> <b>16QAM</b> <b>RB: 1,0</b>	1717.5	20025	V	14.11	9.48	-4.31	19.28	30.00
			H	18.91	9.48	-4.31	24.08	30.00
	1732.5	20175	V	13.49	9.53	-4.31	18.72	30.00
			H	18.35	9.53	-4.31	23.57	30.00
	1747.5	20325	V	12.96	9.59	-4.32	18.23	30.00
			H	19.57	9.58	-4.32	<b>24.84</b>	30.00
<b>BAND 4</b> <b>BW: 15M</b> <b>16QAM</b> <b>RB: 1,74</b>	1717.5	20025	V	13.77	9.52	-4.31	18.98	30.00
			H	18.34	9.52	-4.31	23.55	30.00
	1732.5	20175	V	13.17	9.57	-4.31	18.43	30.00
			H	19.73	9.57	-4.31	<b>24.99</b>	30.00
	1747.5	20325	V	12.63	9.62	-4.34	17.91	30.00
			H	18.85	9.62	-4.34	24.13	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
<b>BAND 4 BW: 20M QPSK RB: 1,0</b>	1720.0	20050	V	13.85	9.48	-4.31	19.02	30.00
			H	18.59	9.48	-4.31	23.76	30.00
	1732.5	20175	V	13.51	9.52	-4.31	18.72	30.00
			H	18.02	9.52	-4.31	23.23	30.00
	1745.0	20300	V	12.72	9.56	-4.31	17.97	30.00
			H	19.02	9.56	-4.31	<b>24.27</b>	30.00
<b>BAND 4 BW: 20M QPSK RB: 1,99</b>	1720.0	20050	V	13.36	9.53	-4.31	18.59	30.00
			H	18.50	9.53	-4.31	23.73	30.00
	1732.5	20175	V	12.89	9.58	-4.31	18.16	30.00
			H	19.48	9.58	-4.31	<b>24.74</b>	30.00
	1745.0	20300	V	12.39	9.62	-4.34	17.67	30.00
			H	18.60	9.62	-4.33	23.89	30.00
<b>BAND 4 BW: 20M 16QAM RB: 1,0</b>	1720.0	20050	V	14.17	9.48	-4.31	19.35	30.00
			H	18.93	9.48	-4.31	24.11	30.00
	1732.5	20175	V	13.64	9.53	-4.31	18.86	30.00
			H	18.22	9.53	-4.31	23.43	30.00
	1745.0	20300	V	12.89	9.57	-4.31	18.16	30.00
			H	19.28	9.56	-4.31	<b>24.53</b>	30.00
<b>BAND 4 BW: 20M 16QAM RB: 1,99</b>	1720.0	20050	V	13.64	9.53	-4.31	18.86	30.00
			H	18.77	9.53	-4.31	23.99	30.00
	1732.5	20175	V	13.27	9.58	-4.31	18.54	30.00
			H	19.86	9.58	-4.31	<b>25.12</b>	30.00
	1745.0	20300	V	12.83	9.62	-4.33	18.12	30.00
			H	19.05	9.62	-4.33	24.34	30.00

**Remark :**

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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
<b>BAND 5 BW: 1.4M QPSK RB: 1,0</b>	824.7	20407	V	13.38	3.30	-2.93	13.76	38.45
			H	18.30	3.30	-2.93	<b>18.68</b>	38.45
	836.5	20525	V	13.68	3.29	-2.96	14.01	38.45
			H	18.25	3.29	-2.96	18.58	38.45
	848.3	20643	V	12.73	3.27	-3.00	13.00	38.45
			H	18.02	3.27	-2.99	18.29	38.45
<b>BAND 5 BW: 1.4M QPSK RB: 1,5</b>	824.7	20407	V	13.72	3.31	-2.92	14.10	38.45
			H	18.49	3.31	-2.92	<b>18.87</b>	38.45
	836.5	20525	V	13.48	3.29	-2.96	13.81	38.45
			H	18.09	3.29	-2.96	18.43	38.45
	848.3	20643	V	11.62	3.27	-3.00	11.89	38.45
			H	16.86	3.27	-3.00	17.13	38.45
<b>BAND 5 BW: 1.4M 16QAM RB: 1,0</b>	824.7	20407	V	12.82	3.30	-2.93	13.19	38.45
			H	17.74	3.30	-2.93	<b>18.11</b>	38.45
	836.5	20525	V	13.13	3.29	-2.96	13.46	38.45
			H	17.66	3.29	-2.96	18.00	38.45
	848.3	20643	V	12.21	3.27	-2.99	12.49	38.45
			H	17.53	3.27	-2.99	17.81	38.45
<b>BAND 5 BW: 1.4M 16QAM RB: 1,5</b>	824.7	20407	V	13.12	3.31	-2.92	13.50	38.45
			H	17.89	3.31	-2.92	<b>18.27</b>	38.45
	836.5	20525	V	12.27	3.29	-2.96	12.60	38.45
			H	17.50	3.29	-2.96	17.83	38.45
	848.3	20643	V	10.92	3.27	-3.00	11.20	38.45
			H	16.21	3.27	-3.00	16.49	38.45

**Remark :**

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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
<b>BAND 5 BW: 3M QPSK RB: 1,0</b>	825.5	20415	V	13.26	3.30	-2.93	13.64	38.45
			H	18.22	3.30	-2.93	18.59	38.45
	836.5	20525	V	14.47	3.29	-2.95	14.81	38.45
			H	18.98	3.29	-2.95	19.32	38.45
	847.5	20635	V	14.43	3.28	-2.99	14.72	38.45
			H	19.77	3.28	-2.99	<b>20.06</b>	38.45
<b>BAND 5 BW: 3M QPSK RB: 1,14</b>	825.5	20415	V	14.74	3.30	-2.93	15.12	38.45
			H	19.39	3.30	-2.93	<b>19.77</b>	38.45
	836.5	20525	V	12.42	3.29	-2.96	12.75	38.45
			H	17.07	3.29	-2.96	17.39	38.45
	847.5	20635	V	11.59	3.27	-3.00	11.86	38.45
			H	16.78	3.27	-3.00	17.05	38.45
<b>BAND 5 BW: 3M 16QAM RB: 1,0</b>	825.5	20415	V	12.66	3.30	-2.93	13.04	38.45
			H	17.65	3.30	-2.93	18.02	38.45
	836.5	20525	V	13.34	3.29	-2.95	13.68	38.45
			H	17.85	3.29	-2.95	18.19	38.45
	847.5	20635	V	13.81	3.28	-2.99	14.10	38.45
			H	19.14	3.28	-2.99	<b>19.43</b>	38.45
<b>BAND 5 BW: 3M 16QAM RB: 1,14</b>	825.5	20415	V	13.56	3.30	-2.93	13.94	38.45
			H	18.25	3.30	-2.93	<b>18.63</b>	38.45
	836.5	20525	V	11.91	3.29	-2.96	12.23	38.45
			H	16.60	3.29	-2.96	16.92	38.45
	847.5	20635	V	10.91	3.27	-3.00	11.18	38.45
			H	16.09	3.27	-3.00	16.37	38.45

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	MHz		V/H	dBm	dBd	dB	dBm	dBm
<b>BAND 5 BW: 5M QPSK RB: 1,0</b>	826.5	20425	V	13.45	3.30	-2.93	13.82	38.45
			H	18.25	3.30	-2.93	18.62	38.45
	836.5	20525	V	14.67	3.29	-2.95	15.01	38.45
			H	19.13	3.29	-2.95	19.47	38.45
	846.5	20625	V	14.58	3.28	-2.98	14.87	38.45
			H	19.85	3.28	-2.98	<b>20.14</b>	38.45
<b>BAND 5 BW: 5M QPSK RB: 1,24</b>	826.5	20425	V	15.54	3.30	-2.93	15.90	38.45
			H	19.96	3.30	-2.93	<b>20.33</b>	38.45
	836.5	20525	V	13.06	3.29	-2.96	13.38	38.45
			H	17.83	3.29	-2.96	18.15	38.45
	846.5	20625	V	12.32	3.27	-3.00	12.60	38.45
			H	17.61	3.27	-3.00	17.89	38.45
<b>BAND 5 BW: 5M 16QAM RB: 1,0</b>	826.5	20425	V	12.87	3.30	-2.93	13.24	38.45
			H	17.78	3.30	-2.93	18.15	38.45
	836.5	20525	V	14.44	3.29	-2.95	14.78	38.45
			H	18.85	3.29	-2.95	19.19	38.45
	846.5	20625	V	15.38	3.28	-2.98	15.68	38.45
			H	19.96	3.28	-2.98	<b>20.25</b>	38.45
<b>BAND 5 BW: 5M 16QAM RB: 1,24</b>	826.5	20425	V	15.60	3.30	-2.93	15.97	38.45
			H	20.21	3.30	-2.93	<b>20.58</b>	38.45
	836.5	20525	V	11.89	3.29	-2.96	12.21	38.45
			H	16.61	3.29	-2.96	16.93	38.45
	846.5	20625	V	11.00	3.27	-3.00	11.28	38.45
			H	16.25	3.27	-3.00	16.53	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
<b>BAND 5 BW: 10M QPSK RB: 1,0</b>	829.0	20450	V	12.67	3.30	-2.93	13.04	38.45
			H	17.63	3.30	-2.93	18.01	38.45
	836.5	20525	V	15.18	3.30	-2.94	15.53	38.45
			H	19.64	3.30	-2.94	<b>19.99</b>	38.45
	844.0	20600	V	12.23	3.29	-2.97	12.55	38.45
			H	17.14	3.28	-2.98	17.45	38.45
<b>BAND 5 BW: 10M QPSK RB: 1,49</b>	829.0	20450	V	14.84	3.29	-2.95	15.18	38.45
			H	19.34	3.29	-2.95	<b>19.68</b>	38.45
	836.5	20525	V	13.11	3.28	-2.97	13.42	38.45
			H	18.23	3.28	-2.98	18.53	38.45
	844.0	20600	V	11.72	3.27	-3.00	12.00	38.45
			H	17.01	3.27	-3.00	17.29	38.45
<b>BAND 5 BW: 10M 16QAM RB: 1,0</b>	829.0	20450	V	12.24	3.30	-2.93	12.61	38.45
			H	17.23	3.30	-2.93	17.60	38.45
	836.5	20525	V	14.85	3.30	-2.94	15.21	38.45
			H	19.35	3.30	-2.94	<b>19.70</b>	38.45
	844.0	20600	V	11.76	3.29	-2.97	12.08	38.45
			H	16.77	3.28	-2.98	17.07	38.45
<b>BAND 5 BW: 10M 16QAM RB: 1,49</b>	829.0	20450	V	14.69	3.29	-2.95	15.03	38.45
			H	19.15	3.29	-2.95	<b>19.49</b>	38.45
	836.5	20525	V	12.03	3.28	-2.97	12.34	38.45
			H	17.02	3.28	-2.97	17.33	38.45
	844.0	20600	V	11.16	3.27	-3.00	11.43	38.45
			H	16.50	3.27	-3.00	16.77	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	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
<b>BAND 7 BW: 5M QPSK RB: 1,0</b>	2502.5	20775	V	14.89	10.90	-5.26	20.53	33.01
			H	16.08	10.90	-5.25	21.72	33.01
	2535.0	21100	V	15.08	10.94	-5.30	20.72	33.01
			H	15.80	10.94	-5.30	21.44	33.01
	2567.5	21425	V	16.90	10.98	-5.34	<b>22.54</b>	33.01
			H	16.64	10.98	-5.34	22.28	33.01
<b>BAND 7 BW: 5M QPSK RB: 1,24</b>	2502.5	20775	V	16.17	10.90	-5.26	21.82	33.01
			H	17.39	10.90	-5.26	<b>23.03</b>	33.01
	2535.0	21100	V	14.31	10.95	-5.31	19.95	33.01
			H	15.08	10.95	-5.31	20.72	33.01
	2567.5	21425	V	16.87	10.99	-5.34	22.52	33.01
			H	16.44	10.99	-5.34	22.09	33.01
<b>BAND 7 BW: 5M 16QAM RB: 1,0</b>	2502.5	20775	V	15.09	10.90	-5.25	20.74	33.01
			H	16.36	10.90	-5.26	22.01	33.01
	2535.0	21100	V	15.42	10.94	-5.30	21.06	33.01
			H	16.17	10.94	-5.30	21.81	33.01
	2567.5	21425	V	17.00	10.98	-5.34	22.64	33.01
			H	16.74	10.98	-5.34	22.38	33.01
<b>BAND 7 BW: 5M 16QAM RB: 1,24</b>	2502.5	20775	V	16.31	10.90	-5.26	21.96	33.01
			H	17.60	10.90	-5.26	<b>23.24</b>	33.01
	2535.0	21100	V	14.40	10.95	-5.31	20.04	33.01
			H	15.22	10.95	-5.31	20.85	33.01
	2567.5	21425	V	17.08	10.99	-5.34	22.73	33.01
			H	16.67	10.99	-5.34	22.31	33.01

**Remark :**

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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
<b>BAND 7 BW: 10M QPSK RB: 1,0</b>	2505.0	20800	V	15.20	10.90	-5.26	20.85	33.01
			H	16.05	10.90	-5.26	21.70	33.01
	2535.0	21100	V	16.10	10.94	-5.29	21.74	33.01
			H	16.58	10.94	-5.30	22.23	33.01
	2565.0	21400	V	16.67	10.98	-5.34	<b>22.30</b>	33.01
			H	16.48	10.98	-5.34	22.12	33.01
<b>BAND 7 BW: 10M QPSK RB: 1,49</b>	2505.0	20800	V	16.62	10.91	-5.26	22.27	33.01
			H	17.37	10.91	-5.26	<b>23.02</b>	33.01
	2535.0	21100	V	14.38	10.95	-5.31	20.02	33.01
			H	14.91	10.95	-5.31	20.55	33.01
	2565.0	21400	V	16.92	10.99	-5.34	22.57	33.01
			H	16.42	10.99	-5.34	22.07	33.01
<b>BAND 7 BW: 10M 16QAM RB: 1,0</b>	2505.0	20800	V	15.54	10.90	-5.26	21.19	33.01
			H	16.51	10.90	-5.26	22.15	33.01
	2535.0	21100	V	16.33	10.94	-5.29	21.97	33.01
			H	16.81	10.94	-5.29	22.45	33.01
	2565.0	21400	V	16.82	10.98	-5.34	<b>22.46</b>	33.01
			H	16.63	10.98	-5.34	22.27	33.01
<b>BAND 7 BW: 10M 16QAM RB: 1,49</b>	2505.0	20800	V	16.85	10.91	-5.26	22.50	33.01
			H	17.63	10.91	-5.26	<b>23.28</b>	33.01
	2535.0	21100	V	14.48	10.95	-5.31	20.12	33.01
			H	15.08	10.95	-5.31	20.72	33.01
	2565.0	21400	V	17.25	10.99	-5.34	22.90	33.01
			H	16.72	10.99	-5.34	22.37	33.01

**Remark :**

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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
<b>BAND 7 BW: 15M QPSK RB: 1,0</b>	2507.5	20825	V	14.99	10.90	-5.26	20.64	33.01
			H	16.07	10.90	-5.26	21.72	33.01
	2535.0	21100	V	16.54	10.93	-5.29	22.18	33.01
			H	16.90	10.93	-5.29	<b>22.54</b>	33.01
	2562.5	21375	V	16.13	10.97	-5.34	21.76	33.01
			H	16.09	10.97	-5.34	21.73	33.01
<b>BAND 7 BW: 15M QPSK RB: 1,74</b>	2507.5	20825	V	15.95	10.92	-5.27	21.60	33.01
			H	16.76	10.92	-5.27	22.41	33.01
	2535.0	21100	V	14.37	10.95	-5.32	20.01	33.01
			H	14.82	10.95	-5.32	20.46	33.01
	2562.5	21375	V	16.89	10.99	-5.34	<b>22.54</b>	33.01
			H	16.26	10.99	-5.34	21.91	33.01
<b>BAND 7 BW: 15M 16QAM RB: 1,0</b>	2507.5	20825	V	15.36	10.90	-5.26	21.01	33.01
			H	16.40	10.90	-5.26	22.05	33.01
	2535.0	21100	V	16.74	10.94	-5.29	22.39	33.01
			H	17.11	10.93	-5.29	<b>22.76</b>	33.01
	2562.5	21375	V	16.24	10.97	-5.34	21.87	33.01
			H	16.28	10.97	-5.34	21.91	33.01
<b>BAND 7 BW: 15M 16QAM RB: 1,74</b>	2507.5	20825	V	16.13	10.92	-5.27	21.78	33.01
			H	17.03	10.92	-5.27	22.68	33.01
	2535.0	21100	V	14.92	10.95	-5.32	20.55	33.01
			H	15.36	10.95	-5.32	21.00	33.01
	2562.5	21375	V	17.19	10.99	-5.34	<b>22.84</b>	33.01
			H	16.58	10.99	-5.34	22.23	33.01

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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
<b>BAND 7 BW: 20M QPSK RB: 1,0</b>	2510.0	20850	V	15.21	10.90	-5.26	20.86	33.01
			H	15.99	10.90	-5.26	21.64	33.01
	2535.0	21100	V	16.80	10.93	-5.29	22.45	33.01
			H	17.00	10.93	-5.29	<b>22.65</b>	33.01
	2560.0	21350	V	15.61	10.96	-5.33	21.24	33.01
			H	15.73	10.96	-5.33	21.36	33.01
<b>BAND 7 BW: 20M QPSK RB: 1,99</b>	2510.0	20850	V	16.05	10.92	-5.27	21.70	33.01
			H	16.53	10.92	-5.27	22.18	33.01
	2535.0	21100	V	14.70	10.96	-5.32	20.34	33.01
			H	14.96	10.95	-5.32	20.59	33.01
	2560.0	21350	V	16.76	10.99	-5.34	<b>22.41</b>	33.01
			H	16.12	10.99	-5.34	21.76	33.01
<b>BAND 7 BW: 20M 16QAM RB: 1,0</b>	2510.0	20850	V	15.41	10.90	-5.26	21.06	33.01
			H	16.47	10.90	-5.26	22.11	33.01
	2535.0	21100	V	16.96	10.93	-5.29	22.61	33.01
			H	17.12	10.93	-5.29	<b>22.77</b>	33.01
	2560.0	21350	V	15.77	10.96	-5.33	21.40	33.01
			H	15.91	10.96	-5.33	21.54	33.01
<b>BAND 7 BW: 20M 16QAM RB: 1,99</b>	2510.0	20850	V	16.30	10.92	-5.27	21.95	33.01
			H	16.80	10.92	-5.27	22.45	33.01
	2535.0	21100	V	15.11	10.95	-5.32	20.75	33.01
			H	15.41	10.95	-5.32	21.04	33.01
	2560.0	21350	V	17.09	10.99	-5.34	<b>22.73</b>	33.01
			H	16.48	10.99	-5.34	22.13	33.01

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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
<b>BAND 12 BW: 1.4M QPSK RB: 1,0</b>	699.7	23017	V	14.04	3.08	-2.96	14.16	34.77
			H	19.50	3.08	-2.96	19.62	34.77
	707.5	23095	V	14.40	3.09	-3.04	14.46	34.77
			H	20.68	3.09	-3.04	<b>20.74</b>	34.77
	715.3	23173	V	12.34	3.11	-3.06	12.39	34.77
			H	19.13	3.11	-3.06	19.18	34.77
<b>BAND 12 BW: 1.4M QPSK RB: 1,5</b>	699.7	23017	V	14.25	3.08	-2.96	14.37	34.77
			H	19.82	3.08	-2.96	<b>19.94</b>	34.77
	707.5	23095	V	13.56	3.09	-3.04	13.61	34.77
			H	19.88	3.09	-3.04	19.93	34.77
	715.3	23173	V	12.42	3.11	-3.06	12.47	34.77
			H	19.32	3.11	-3.06	19.37	34.77
<b>BAND 12 BW: 1.4M 16QAM RB: 1,0</b>	699.7	23017	V	14.29	3.08	-2.96	14.41	34.77
			H	19.71	3.08	-2.96	19.83	34.77
	707.5	23095	V	14.54	3.09	-3.04	14.60	34.77
			H	20.83	3.09	-3.04	<b>20.89</b>	34.77
	715.3	23173	V	12.46	3.11	-3.06	12.51	34.77
			H	19.29	3.11	-3.06	19.34	34.77
<b>BAND 12 BW: 1.4M 16QAM RB: 1,5</b>	699.7	23017	V	14.37	3.08	-2.96	14.49	34.77
			H	19.96	3.08	-2.96	20.08	34.77
	707.5	23095	V	13.78	3.09	-3.04	13.84	34.77
			H	20.12	3.09	-3.04	<b>20.17</b>	34.77
	715.3	23173	V	12.59	3.11	-3.06	12.64	34.77
			H	19.51	3.11	-3.06	19.55	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
<b>BAND 12 BW: 3M QPSK RB: 1,0</b>	700.5	23025	V	14.05	3.08	-2.96	14.17	34.77
			H	19.49	3.08	-2.96	19.61	34.77
	707.5	23095	V	14.78	3.09	-3.03	14.83	34.77
			H	20.97	3.09	-3.03	<b>21.03</b>	34.77
	714.5	23165	V	11.87	3.11	-3.06	11.92	34.77
			H	18.54	3.11	-3.06	18.59	34.77
<b>BAND 12 BW: 3M QPSK RB: 1,14</b>	700.5	23025	V	14.34	3.08	-2.97	14.45	34.77
			H	20.07	3.08	-2.97	<b>20.17</b>	34.77
	707.5	23095	V	12.89	3.10	-3.04	12.95	34.77
			H	19.23	3.10	-3.04	19.29	34.77
	714.5	23165	V	12.40	3.11	-3.06	12.44	34.77
			H	19.30	3.11	-3.06	19.35	34.77
<b>BAND 12 BW: 3M 16QAM RB: 1,0</b>	700.5	23025	V	14.19	3.08	-2.96	14.32	34.77
			H	19.62	3.08	-2.96	19.75	34.77
	707.5	23095	V	15.02	3.09	-3.03	15.08	34.77
			H	21.20	3.09	-3.04	<b>21.26</b>	34.77
	714.5	23165	V	11.94	3.11	-3.06	11.99	34.77
			H	18.58	3.11	-3.06	18.63	34.77
<b>BAND 12 BW: 3M 16QAM RB: 1,14</b>	700.5	23025	V	14.38	3.08	-2.97	14.49	34.77
			H	20.12	3.08	-2.98	<b>20.23</b>	34.77
	707.5	23095	V	13.09	3.10	-3.04	13.15	34.77
			H	19.41	3.10	-3.04	19.47	34.77
	714.5	23165	V	12.63	3.11	-3.06	12.67	34.77
			H	19.54	3.11	-3.06	19.59	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
<b>BAND 12 BW: 5M QPSK RB: 1,0</b>	701.5	23035	V	14.02	3.08	-2.96	14.14	34.77
			H	19.51	3.08	-2.96	19.63	34.77
	707.5	23095	V	14.93	3.09	-3.03	14.99	34.77
			H	21.11	3.09	-3.03	<b>21.17</b>	34.77
	713.5	23155	V	11.68	3.10	-3.05	11.73	34.77
			H	18.11	3.10	-3.05	18.16	34.77
<b>BAND 12 BW: 5M QPSK RB: 1,24</b>	701.5	23035	V	14.76	3.09	-3.01	14.84	34.77
			H	20.72	3.09	-3.01	<b>20.80</b>	34.77
	707.5	23095	V	12.39	3.10	-3.04	12.44	34.77
			H	18.76	3.10	-3.04	18.81	34.77
	713.5	23155	V	12.50	3.11	-3.06	12.55	34.77
			H	19.26	3.11	-3.06	19.31	34.77
<b>BAND 12 BW: 5M 16QAM RB: 1,0</b>	701.5	23035	V	14.18	3.08	-2.96	14.30	34.77
			H	19.68	3.08	-2.99	19.77	34.77
	707.5	23095	V	15.23	3.09	-3.03	15.29	34.77
			H	21.30	3.09	-3.03	<b>21.36</b>	34.77
	713.5	23155	V	11.79	3.10	-3.05	11.84	34.77
			H	18.23	3.10	-3.05	18.28	34.77
<b>BAND 12 BW: 5M 16QAM RB: 1,24</b>	701.5	23035	V	15.05	3.09	-3.01	15.13	34.77
			H	20.97	3.09	-3.01	<b>21.04</b>	34.77
	707.5	23095	V	12.55	3.10	-3.04	12.60	34.77
			H	18.93	3.10	-3.05	18.98	34.77
	713.5	23155	V	12.73	3.11	-3.06	12.77	34.77
			H	19.54	3.11	-3.06	19.59	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
<b>BAND 12 BW: 10M QPSK RB: 1,0</b>	704.0	23060	V	14.04	3.08	-2.96	14.16	34.77
			H	19.56	3.08	-2.96	19.68	34.77
	707.5	23095	V	14.58	3.09	-3.00	14.66	34.77
			H	20.50	3.09	-3.00	20.58	34.77
	711.0	23130	V	14.63	3.09	-3.04	14.69	34.77
			H	20.87	3.09	-3.03	<b>20.93</b>	34.77
<b>BAND 12 BW: 10M QPSK RB: 1,49</b>	704.0	23060	V	13.21	3.10	-3.04	13.26	34.77
			H	19.51	3.10	-3.04	<b>19.56</b>	34.77
	707.5	23095	V	11.59	3.10	-3.05	11.64	34.77
			H	18.15	3.10	-3.05	18.20	34.77
	711.0	23130	V	12.51	3.11	-3.06	12.56	34.77
			H	19.41	3.11	-3.06	19.46	34.77
<b>BAND 12 BW: 10M 16QAM RB: 1,0</b>	704.0	23060	V	14.23	3.08	-2.96	14.35	34.77
			H	19.70	3.08	-2.96	19.83	34.77
	707.5	23095	V	14.68	3.08	-2.99	14.76	34.77
			H	20.56	3.09	-3.01	20.64	34.77
	711.0	23130	V	14.90	3.09	-3.04	14.95	34.77
			H	21.12	3.09	-3.03	<b>21.18</b>	34.77
<b>BAND 12 BW: 10M 16QAM RB: 1,49</b>	704.0	23060	V	13.41	3.09	-3.04	13.47	34.77
			H	19.83	3.10	-3.04	<b>19.88</b>	34.77
	707.5	23095	V	11.79	3.10	-3.05	11.85	34.77
			H	18.33	3.10	-3.05	18.38	34.77
	711.0	23130	V	12.63	3.11	-3.06	12.68	34.77
			H	19.58	3.11	-3.06	19.63	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
<b>BAND 17 BW: 5M QPSK RB: 1,0</b>	706.5	23755	V	14.78	3.09	-3.04	14.84	34.77
			H	20.69	3.09	-3.04	<b>20.75</b>	34.77
	710.0	23790	V	14.06	3.09	-3.04	14.12	34.77
			H	20.13	3.09	-3.04	20.19	34.77
	713.5	23825	V	12.12	3.10	-3.05	12.17	34.77
			H	18.32	3.10	-3.05	18.37	34.77
<b>BAND 17 BW: 5M QPSK RB: 1,24</b>	706.5	23755	V	13.46	3.10	-3.04	13.52	34.77
			H	19.58	3.10	-3.04	19.64	34.77
	710.0	23790	V	12.15	3.10	-3.05	12.20	34.77
			H	18.40	3.10	-3.05	18.45	34.77
	713.5	23825	V	12.92	3.11	-3.06	12.97	34.77
			H	19.62	3.11	-3.06	<b>19.67</b>	34.77
<b>BAND 17 BW: 5M 16QAM RB: 1,0</b>	706.5	23755	V	15.12	3.09	-3.04	15.18	34.77
			H	21.11	3.09	-3.04	<b>21.17</b>	34.77
	710.0	23790	V	14.27	3.09	-3.04	14.32	34.77
			H	20.38	3.09	-3.04	20.43	34.77
	713.5	23825	V	12.24	3.10	-3.05	12.29	34.77
			H	18.46	3.10	-3.05	18.51	34.77
<b>BAND 17 BW: 5M 16QAM RB: 1,24</b>	706.5	23755	V	13.72	3.10	-3.04	13.77	34.77
			H	19.78	3.10	-3.04	<b>19.83</b>	34.77
	710.0	23790	V	12.18	3.10	-3.05	12.23	34.77
			H	18.47	3.10	-3.05	18.52	34.77
	713.5	23825	V	13.08	3.11	-3.06	13.13	34.77
			H	19.77	3.11	-3.06	19.82	34.77

**Remark :**

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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
<b>BAND 17 BW: 10M QPSK RB: 1,0</b>	709.0	23780	V	14.96	3.09	-3.03	15.01	34.77
			H	20.92	3.09	-3.04	20.97	34.77
	710.0	23790	V	15.26	3.09	-3.03	15.31	34.77
			H	21.28	3.09	-3.03	<b>21.34</b>	34.77
	711.0	23800	V	14.99	3.09	-3.04	15.04	34.77
			H	21.07	3.09	-3.04	21.12	34.77
<b>BAND 17 BW: 10M QPSK RB: 1,49</b>	709.0	23780	V	12.51	3.11	-3.06	12.56	34.77
			H	18.95	3.11	-3.06	19.00	34.77
	710.0	23790	V	12.82	3.11	-3.06	12.87	34.77
			H	19.39	3.11	-3.06	19.44	34.77
	711.0	23800	V	12.93	3.11	-3.06	12.98	34.77
			H	19.65	3.11	-3.06	<b>19.70</b>	34.77
<b>BAND 17 BW: 10M 16QAM RB: 1,0</b>	709.0	23780	V	15.02	3.09	-3.04	15.07	34.77
			H	21.05	3.09	-3.04	21.10	34.77
	710.0	23790	V	15.44	3.09	-3.03	15.50	34.77
			H	21.63	3.09	-3.03	<b>21.69</b>	34.77
	711.0	23800	V	15.29	3.09	-3.03	15.34	34.77
			H	21.28	3.09	-3.04	21.33	34.77
<b>BAND 17 BW: 10M 16QAM RB: 1,49</b>	709.0	23780	V	12.67	3.11	-3.06	12.72	34.77
			H	19.14	3.11	-3.06	19.19	34.77
	710.0	23790	V	13.06	3.11	-3.06	13.11	34.77
			H	19.69	3.11	-3.06	19.74	34.77
	711.0	23800	V	13.13	3.11	-3.06	13.18	34.77
			H	19.86	3.11	-3.06	<b>19.90</b>	34.77

**Remark :**

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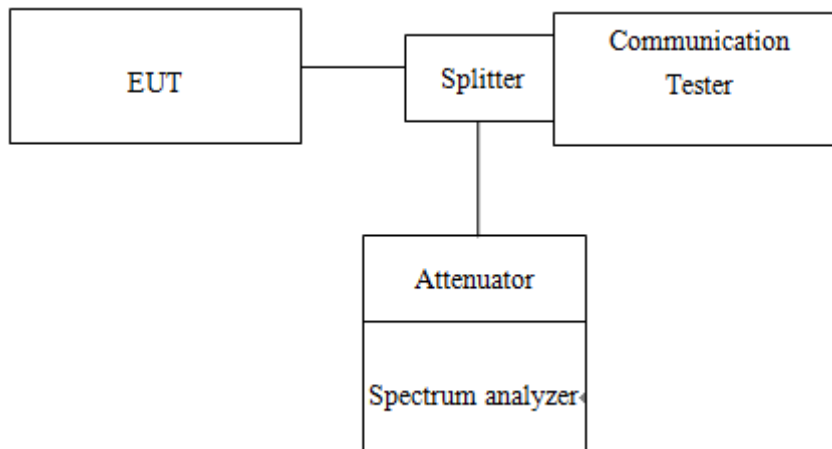
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## 8. OCCUPIED BANDWIDTH MEASUREMENT

### 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.
Power Meter	Anritsu	ML2495A	1005007	12/09/2015	12/08/2016
Power Sensor	Anritsu	MA2411B	917032	12/09/2015	12/08/2016
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	02/26/2016	20/25/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
Coaxial Cable	HU-BER+SUHNER	SUCOFLEX 102	23670/2	01/02/2016	01/01/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017
Splitter	Agilent	11636B	N/A	01/02/2016	01/01/2017
DC Power Supply	Agilent	E3640A	MY52410006	11/05/2015	11/04/2016
Temperature Chamber	TERCHY	MHG-120LF	911009	05/17/2016	05/16/2017
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2016	02/10/2017
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	09/25/2015	09/24/2016
Radio Communication Analyzer	Anritsu	MT8820C	6201465317	12/10/2015	12/09/2016

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## 8.5. Measurement Result

Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		WCDMA II	HSDPA II	HSUPA II	WCDMA II	HSDPA II	HSUPA II
1850.20	9262	4.1477	4.1469	4.1391	4.623	4.616	4.626
1880.00	9400	4.1491	4.1492	4.1583	4.624	4.621	4.626
1909.80	9538	4.1483	<b>4.1556</b>	4.1465	4.626	<b>4.629</b>	4.619

Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		WCDMA IV	HSDPA IV	HSUPA IV	WCDMA IV	HSDPA IV	HSUPA IV
1712.40	1312	4.1510	4.1538	4.1562	4.628	4.610	4.624
1732.60	1413	4.1462	4.1514	4.1535	4.618	<b>4.619</b>	4.615
1752.60	1513	<b>4.1551</b>	<b>4.1551</b>	<b>4.1598</b>	<b>4.629</b>	4.617	<b>4.631</b>

Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		WCDMA V	HSDPA V	HSUPA V	WCDMA V	HSDPA V	HSUPA V
826.40	4132	<b>4.1577</b>	4.1577	4.1509	4.616	4.616	4.615
836.60	4183	4.1454	<b>4.1626</b>	<b>4.1514</b>	4.610	4.610	<b>4.626</b>
846.60	4233	4.1404	4.1409	4.1232	<b>4.631</b>	<b>4.631</b>	4.608

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LTE BAND 2 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1850.7	18607	1.0964	1.1046	1.292	1.316
1880.0	18900	1.0953	1.0967	1.301	1.280
1909.3	19193	1.0972	1.1059	1.289	1.293

LTE BAND 2 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1851.5	18615	2.7065	2.7083	2.981	3.000
1880.0	18900	2.7098	2.7047	2.981	2.992
1908.5	19185	2.7099	2.7069	2.979	2.980

LTE BAND 2 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1852.5	18625	4.5038	4.5067	4.978	4.956
1880.0	18900	4.5104	4.5126	5.036	5.032
1907.5	19175	4.5113	4.5112	4.976	5.015

LTE BAND 2 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1855.0	18650	8.9895	8.9454	9.924	9.735
1880.0	18900	9.0010	8.9560	9.911	9.829
1905.0	19150	9.0068	8.9569	9.847	9.749

LTE BAND 2 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1857.5	18675	13.439	13.431	14.69	14.68
1880.0	18900	13.421	13.441	14.65	14.71
1902.5	19125	13.472	13.449	14.66	14.68

LTE BAND 2 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1860.0	18700	17.865	17.856	19.33	19.33
1880.0	18900	17.887	17.872	19.37	19.37
1900.0	19100	17.901	17.922	19.39	19.44

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LTE BAND 4 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1710.7	19957	1.0996	1.0998	1.295	1.314
1732.5	20175	1.0973	1.1038	1.270	1.298
1754.3	20393	1.1038	1.0982	1.285	1.287

LTE BAND 4 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1711.5	19965	2.7053	2.7053	2.995	2.998
1732.5	20175	2.7014	2.7076	2.967	3.002
1753.5	20385	2.7018	2.7107	3.009	2.998

LTE BAND 4 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1712.5	19957	4.5052	4.4902	4.997	4.985
1732.5	20175	4.5030	4.4959	5.003	4.984
1752.5	20375	4.4985	4.5039	5.033	4.969

LTE BAND 4 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1715.0	20000	8.9884	8.9551	9.846	9.810
1732.5	20175	8.9891	8.9649	9.814	9.750
1750.0	20350	8.9901	8.9586	9.855	9.760

LTE BAND 4 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1717.5	20025	13.465	13.456	14.59	14.64
1732.5	20175	13.469	13.434	14.50	14.53
1747.5	20325	13.465	13.459	14.67	14.66

LTE BAND 4 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1720.0	20050	17.861	17.902	19.35	19.28
1732.5	20175	17.860	17.854	19.30	19.26
1745.0	20300	17.902	17.912	19.35	19.32

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LTE BAND 5 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
824.7	20407	1.0980	1.1002	1.270	1.300
836.5	20525	1.0974	1.0960	1.286	1.309
848.3	20643	1.0974	1.1040	1.299	1.278

LTE BAND 5 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
825.5	20415	2.7099	2.7059	3.004	2.985
836.5	20525	2.7136	2.7025	2.993	2.992
847.5	20635	2.7104	2.7080	3.010	2.995

LTE BAND 5 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
826.5	20425	4.4862	4.5010	4.993	4.929
836.5	20525	4.5058	4.4947	5.015	5.007
846.5	20625	4.4958	4.4977	4.999	4.968

LTE BAND 5 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
829.0	20450	8.9787	8.9831	9.933	10.160
836.5	20525	9.0250	9.0080	9.904	9.852
844.0	20600	8.9577	8.9499	9.770	9.767

LTE BAND 7 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
2502.5	20775	4.5086	4.5125	5.007	5.008
2535.0	21100	4.5097	4.5048	5.023	5.017
2567.5	21425	4.5146	4.5048	5.013	4.965

LTE BAND 7 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
2505.0	20800	9.0066	8.9622	9.914	9.769
2535.0	21100	8.9863	8.9600	9.801	9.742
2565.0	21400	8.9887	8.9806	9.915	9.863

LTE BAND 7 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
2507.5	20825	13.430	13.447	14.67	14.61
2535.0	21100	13.471	13.479	14.54	14.63
2562.5	21375	13.433	13.465	14.20	14.34

LTE BAND 7 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
2510.0	20850	17.874	17.861	18.97	18.95
2535.0	21100	17.928	17.885	18.95	18.87
2560.0	21350	17.864	17.900	19.00	18.88

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LTE BAND 12 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
699.7	23017	1.1083	1.0961	1.238	1.244
707.5	23095	1.1007	1.1036	1.267	1.291
715.3	23173	1.1031	1.1042	1.563	1.314

LTE BAND 12 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
700.5	23025	2.7050	2.7005	2.977	2.975
707.5	23095	2.7166	2.7036	2.985	2.988
714.5	23165	2.7117	2.7085	3.011	2.997

LTE BAND 12 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
701.5	23035	4.5173	4.5105	5.027	4.998
707.5	23095	4.5073	4.5049	5.021	5.012
713.5	23155	4.5310	4.5178	5.023	5.041

LTE BAND 12 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
704.0	23060	9.0578	9.0390	9.962	9.904
707.5	23095	9.0229	8.9576	9.846	9.711
711.0	23130	8.9710	8.9476	9.783	9.868

LTE BAND 17 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
706.5	23755	4.5176	4.5164	4.812	5.006
710.0	23790	4.5022	4.4931	5.037	5.002
713.5	23825	4.4773	4.5231	4.812	4.991

LTE BAND 17 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
709.0	23780	9.0012	8.9443	9.781	9.756
710.0	23790	8.9857	8.9415	9.756	9.764
711.0	23780	8.9762	8.9504	9.869	9.802

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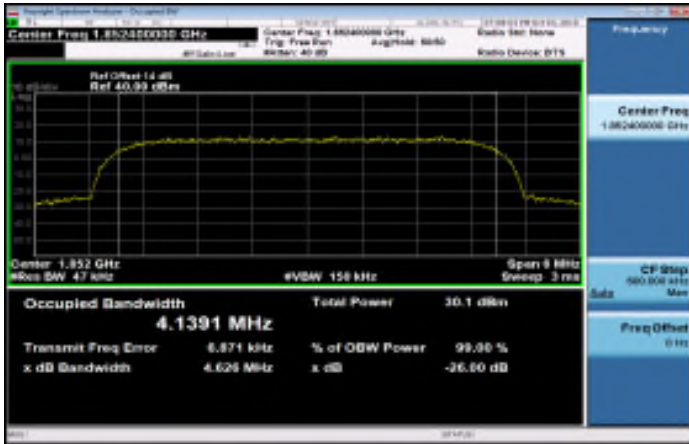
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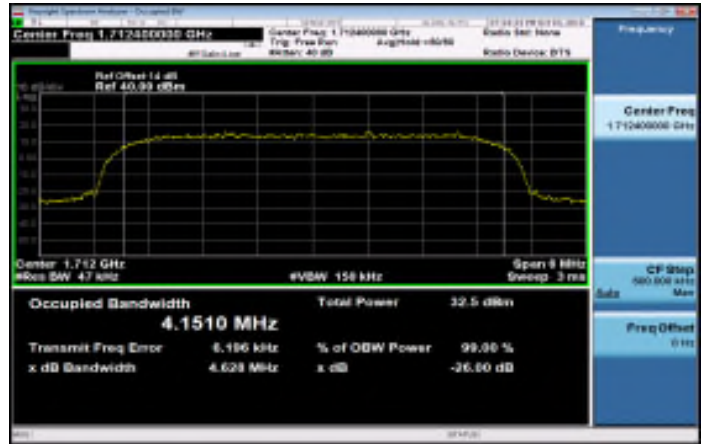




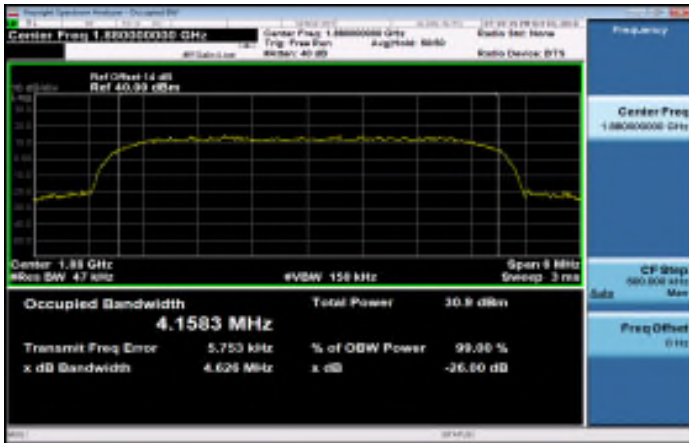
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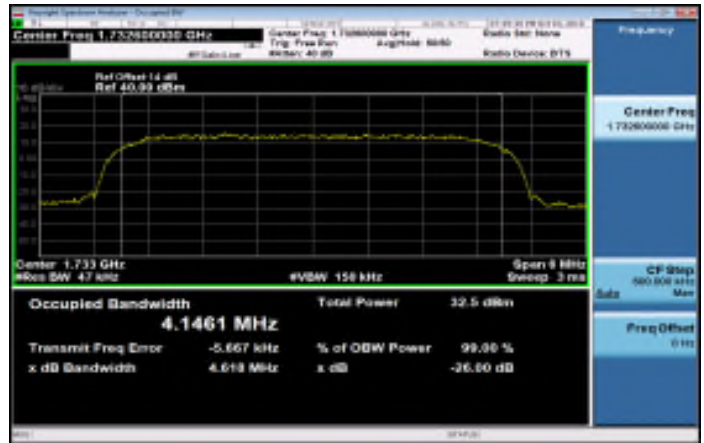
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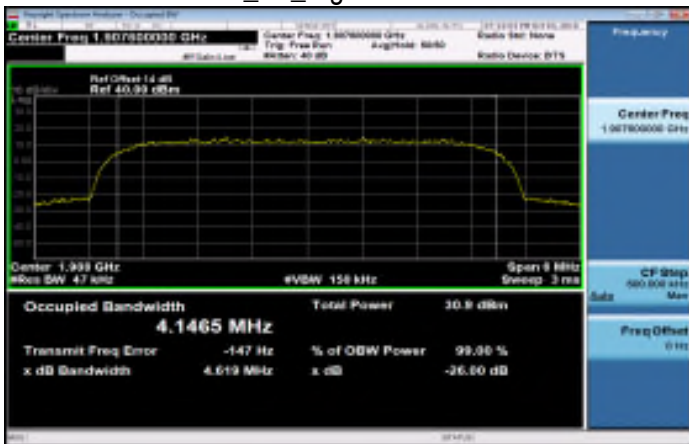
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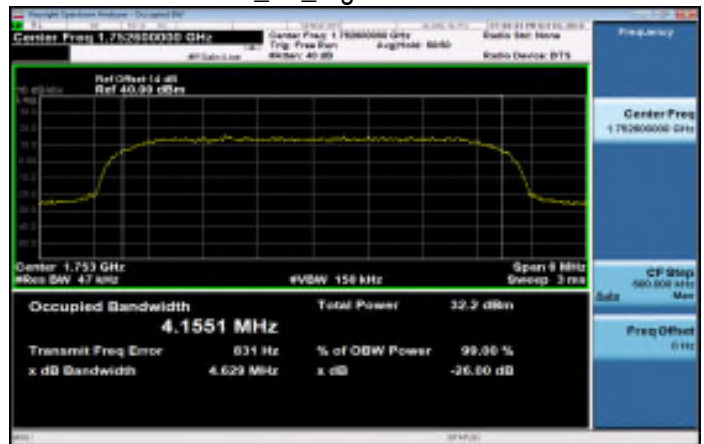
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HSUPA\_B2\_HighCH9538-1907.6



WCDMA\_B4\_HighCH1513-1752.6



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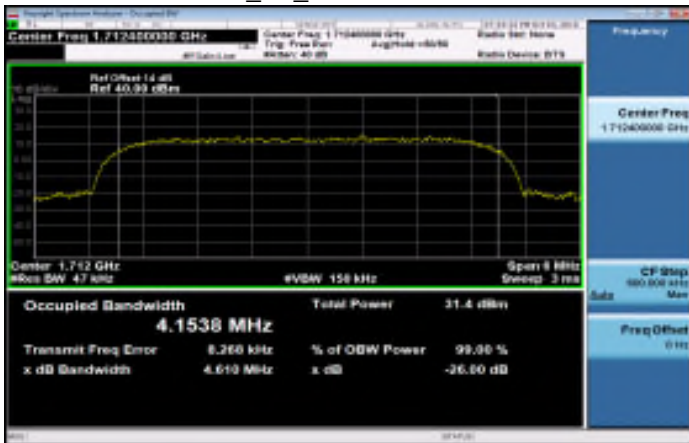
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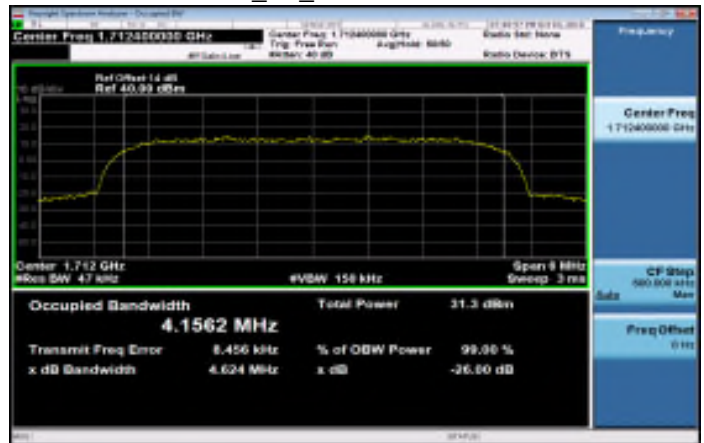
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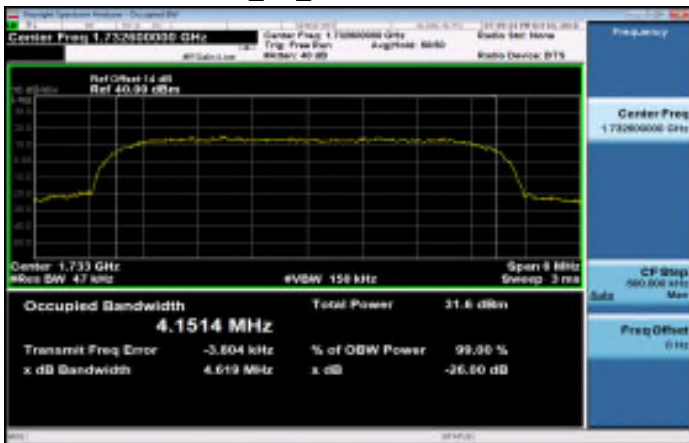
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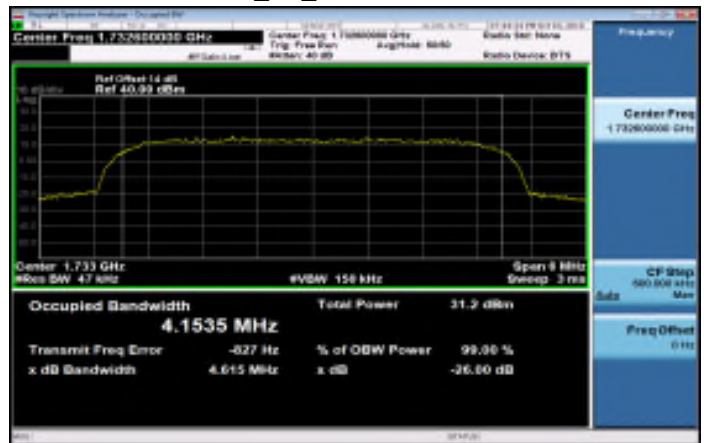
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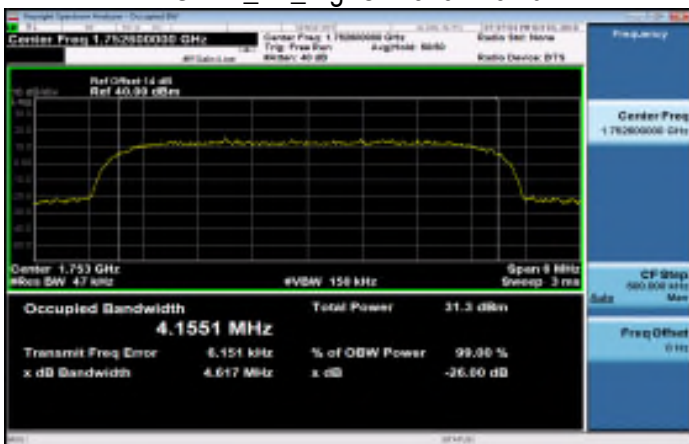
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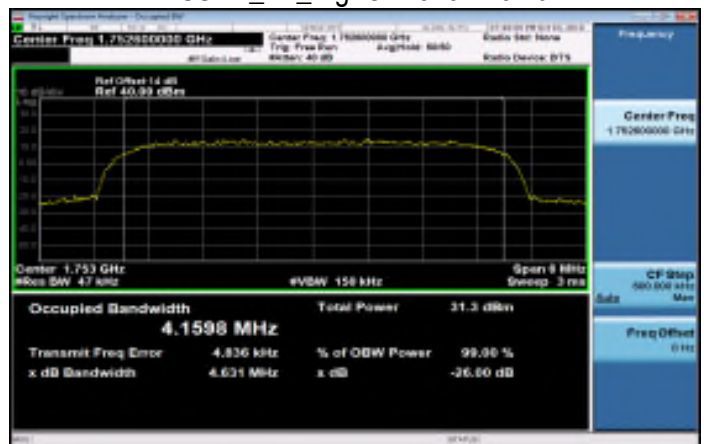
HSUPA\_B4\_MidCH1413-1732.6



HSDPA\_B4\_HighCH1513-1752.6



HSUPA\_B4\_HighCH1513-1752.6



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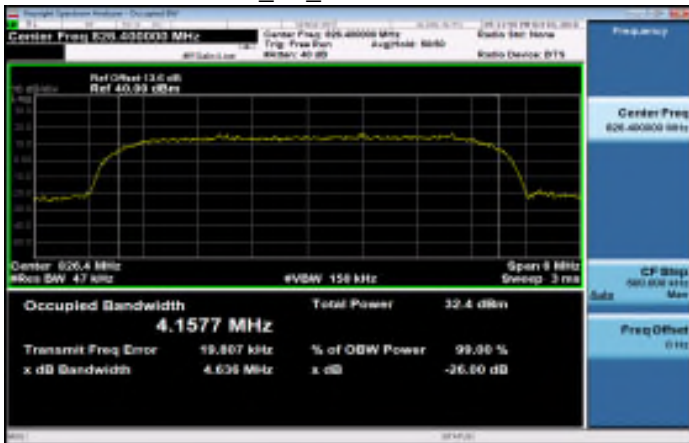
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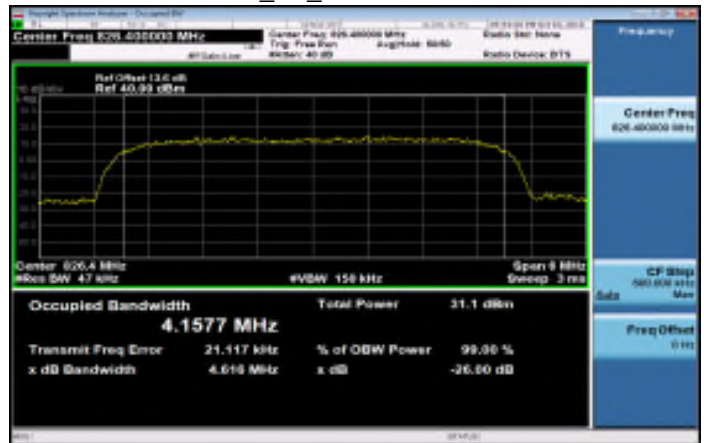
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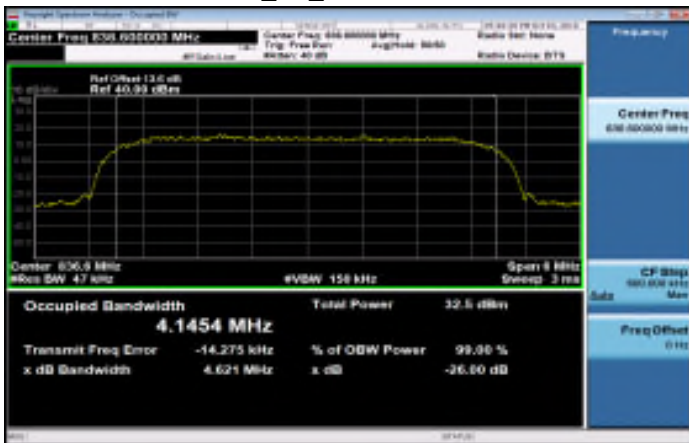
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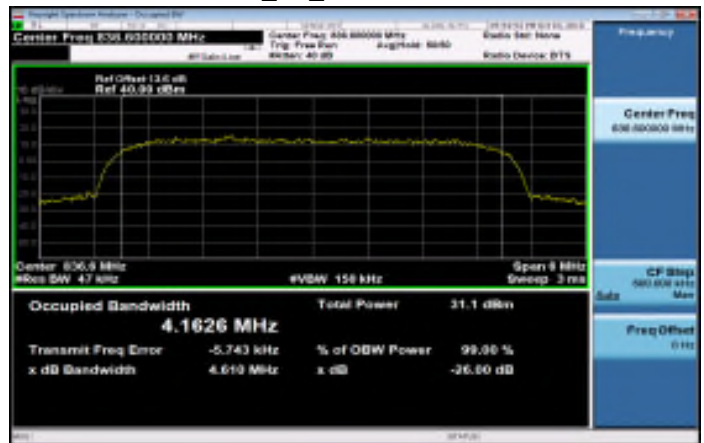
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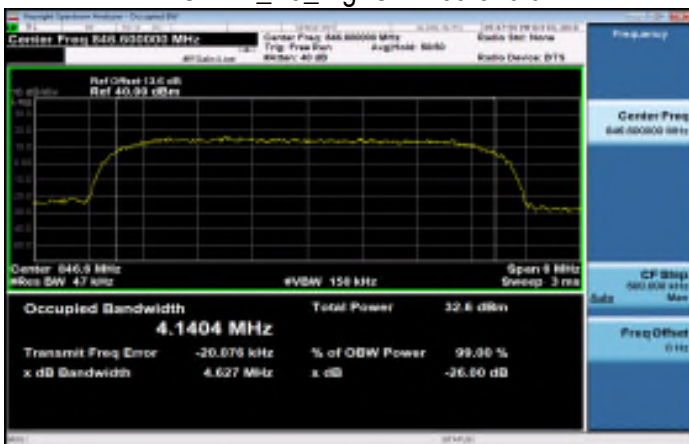
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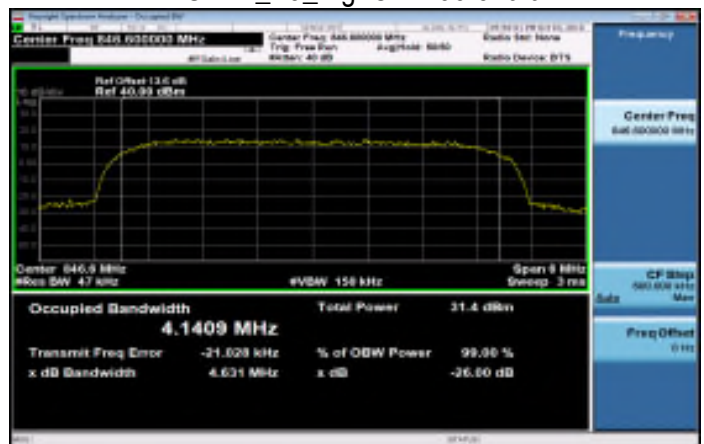
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WCDMA\_B5\_HighCH4233-846.6



HSDPA\_B5\_HighCH4233-846.6



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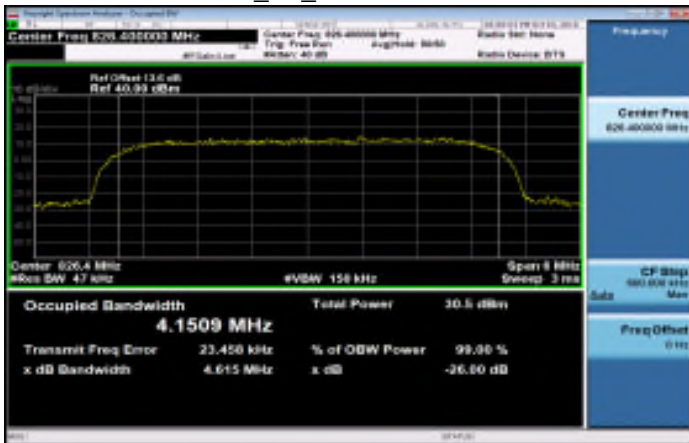
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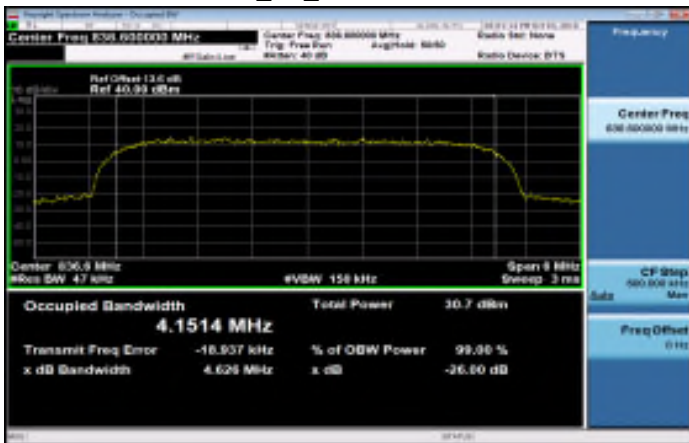
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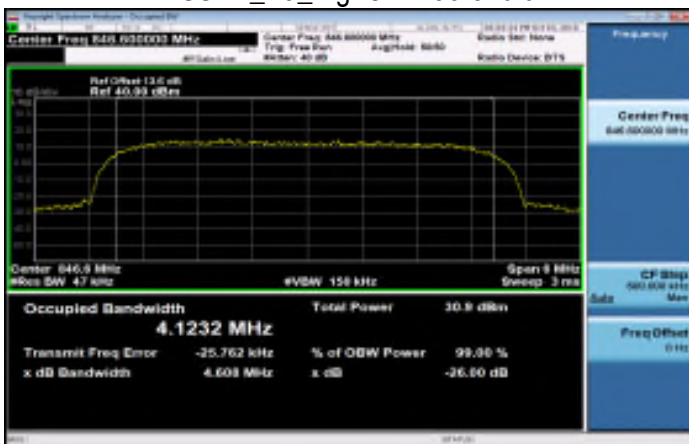
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HSUPA\_B5\_MidCH4183-836.6



HSUPA\_B5\_HighCH4233-846.6



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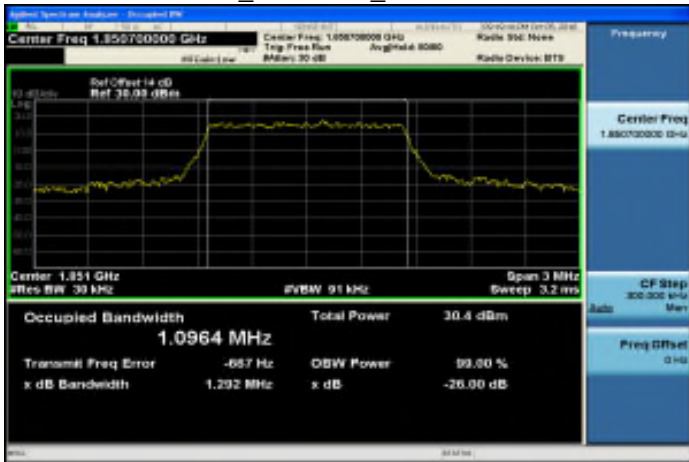
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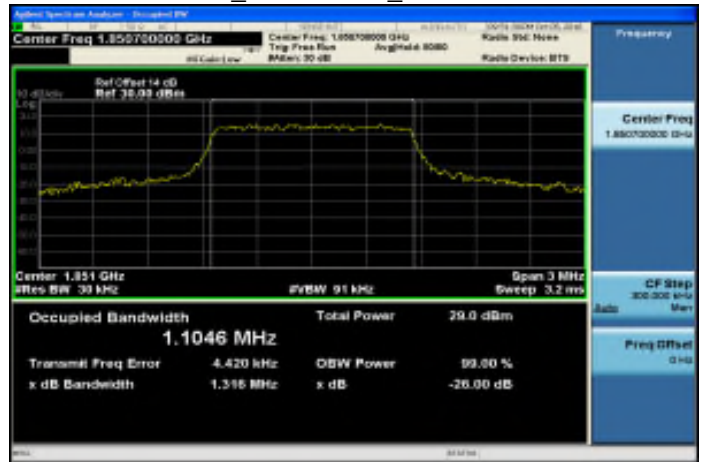
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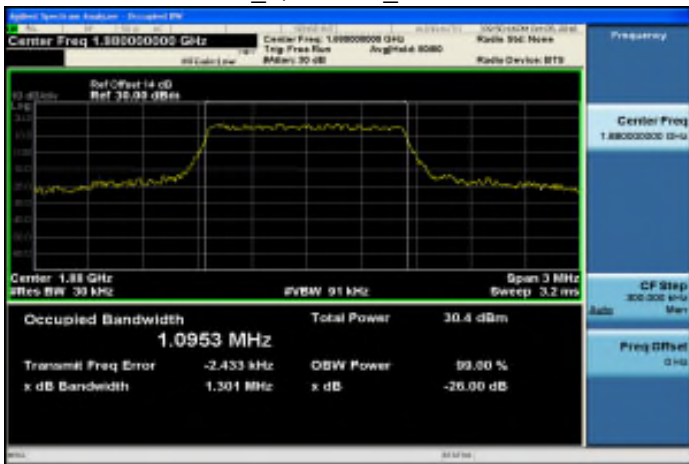
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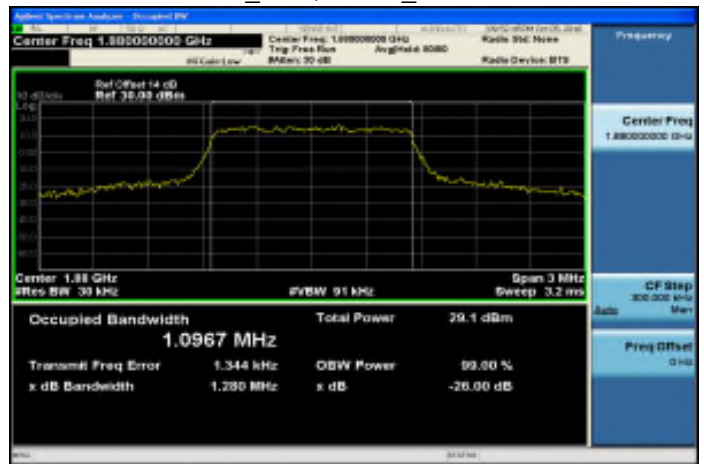
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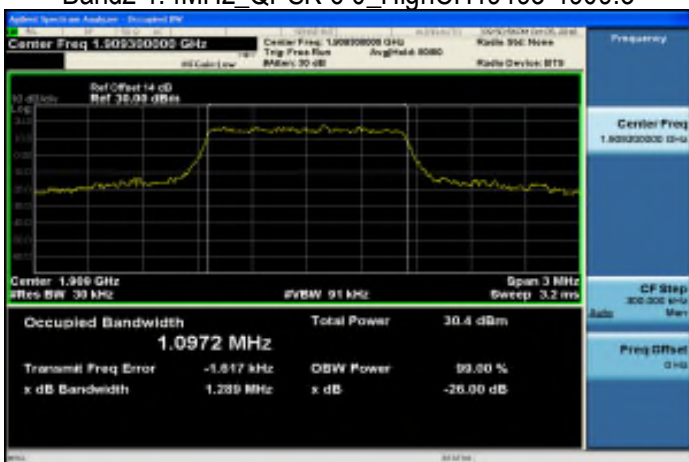
Band2 1.4MHz\_QPSK 6 0\_MidCH18900-1880



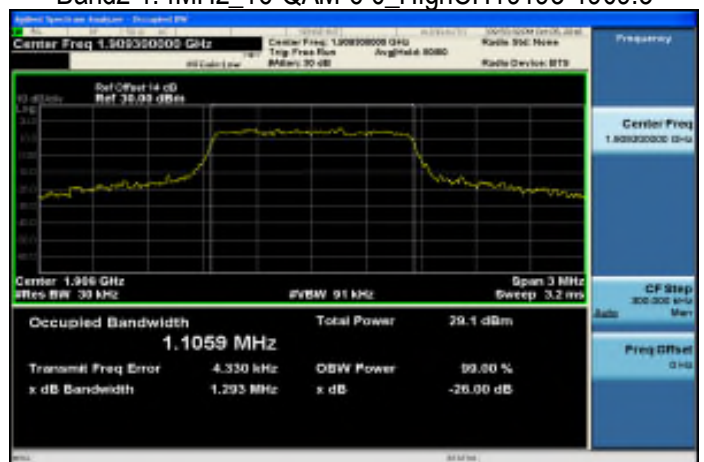
Band2 1.4MHz\_16-QAM 6 0\_MidCH18900-1880



Band2 1.4MHz\_QPSK 6 0\_HighCH19193-1909.3



Band2 1.4MHz\_16-QAM 6 0\_HighCH19193-1909.3



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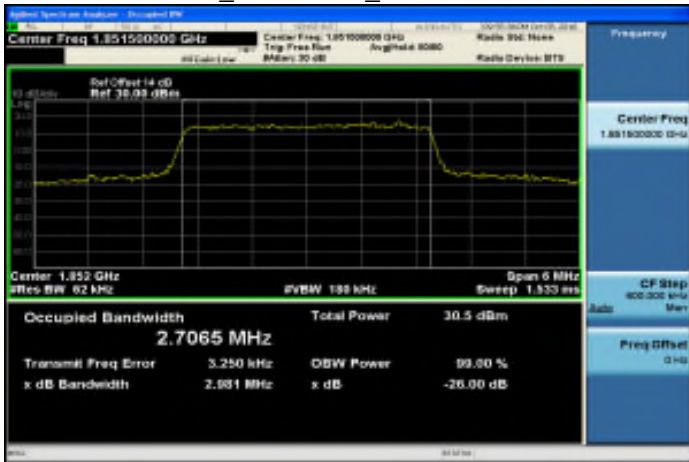
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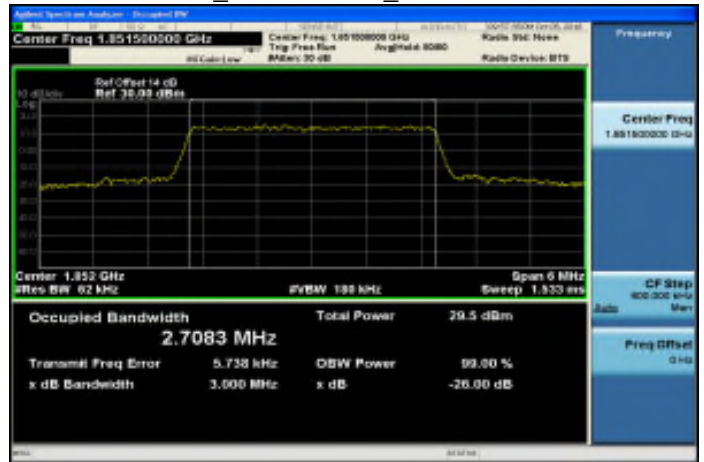
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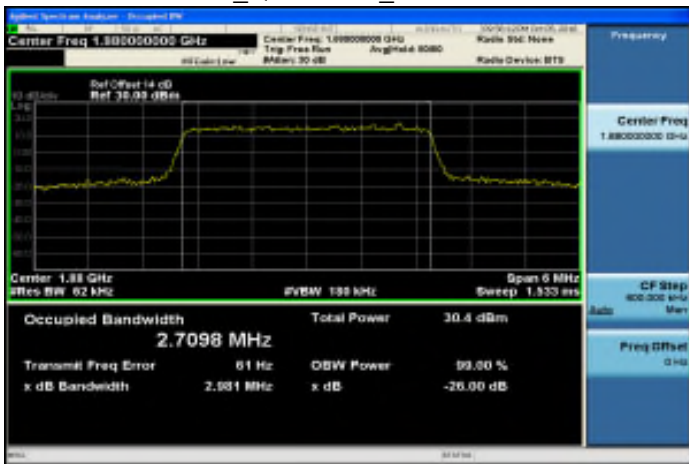
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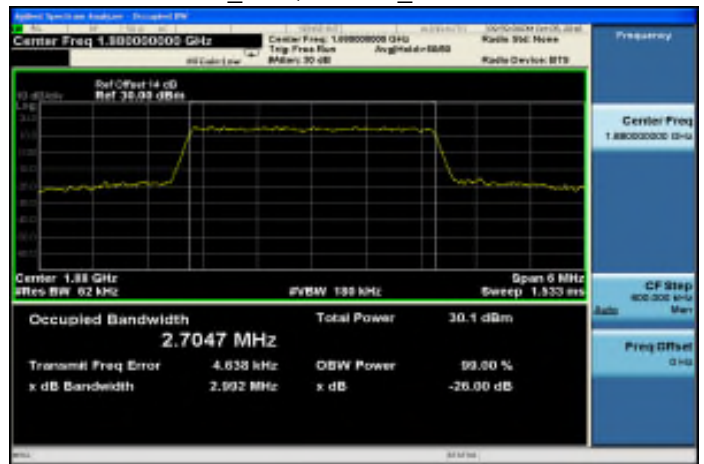
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Band2 3MHz\_QPSK 15 0\_MidCH18900-1880



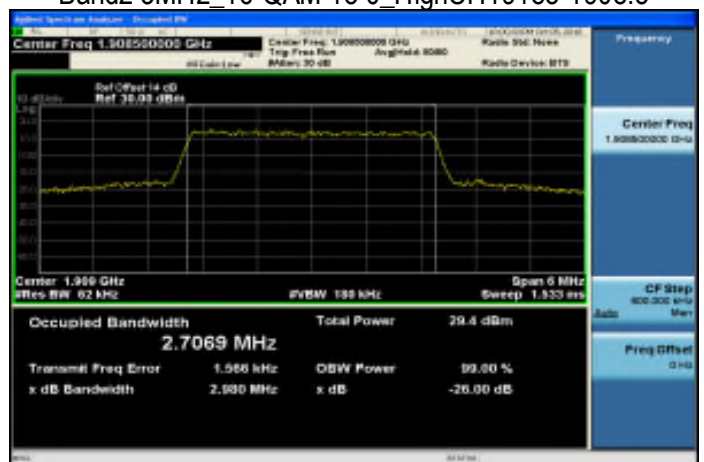
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Band2 3MHz\_QPSK 15 0\_HighCH19185-1908.5



Band2 3MHz\_16-QAM 15 0\_HighCH19185-1908.5



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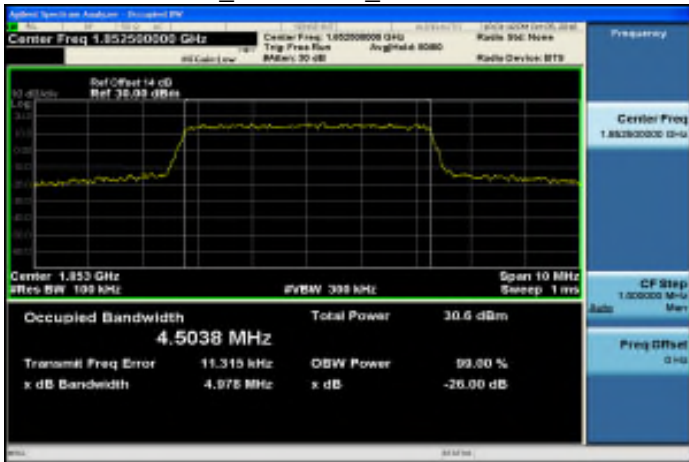
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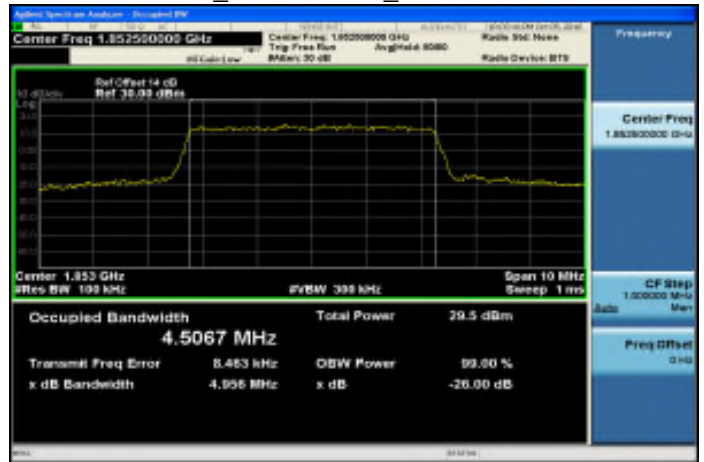
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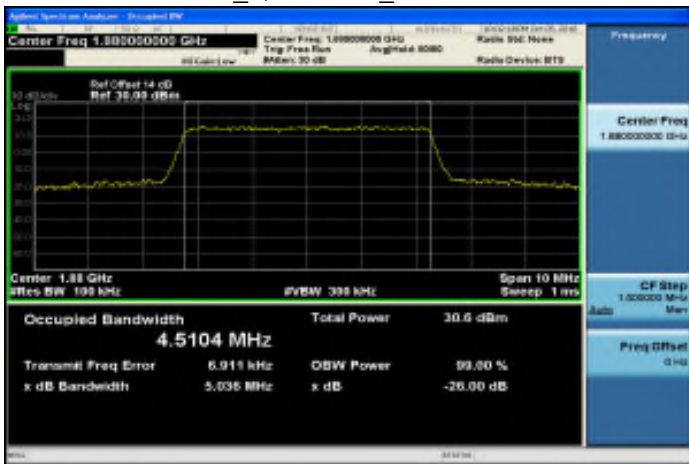
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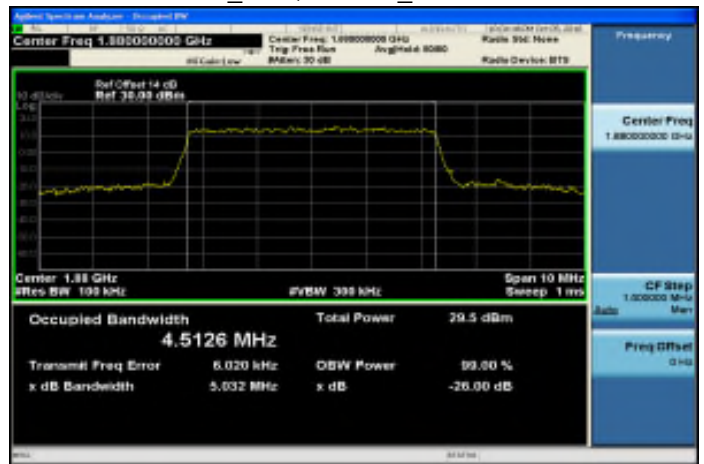
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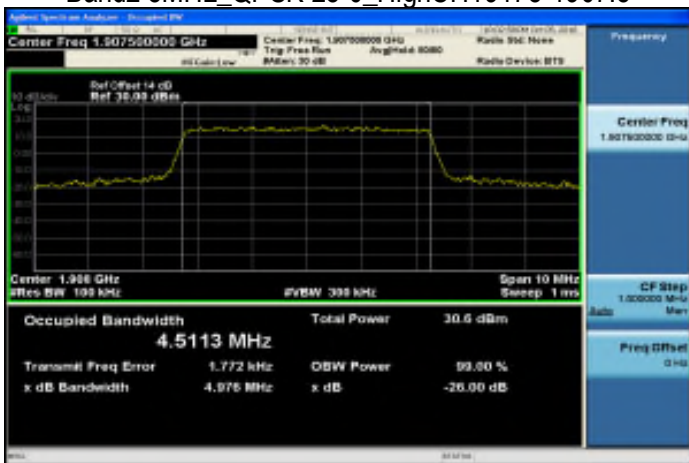
Band2 5MHz\_QPSK 25 0\_MidCH18900-1880



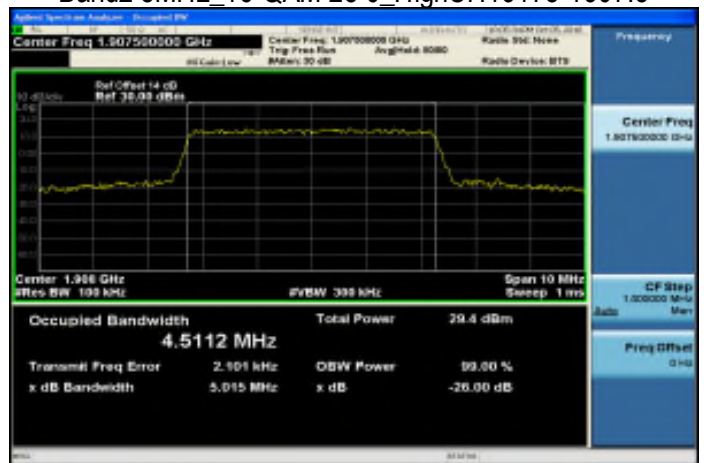
Band2 5MHz\_16-QAM 25 0\_MidCH18900-1880



Band2 5MHz\_QPSK 25 0\_HighCH19175-1907.5



Band2 5MHz\_16-QAM 25 0\_HighCH19175-1907.5



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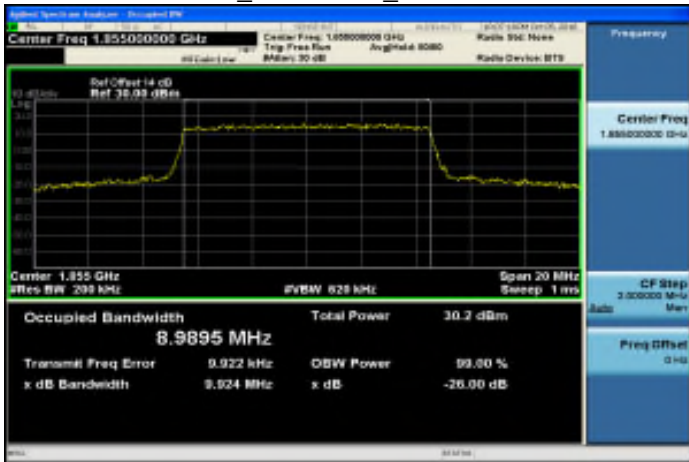
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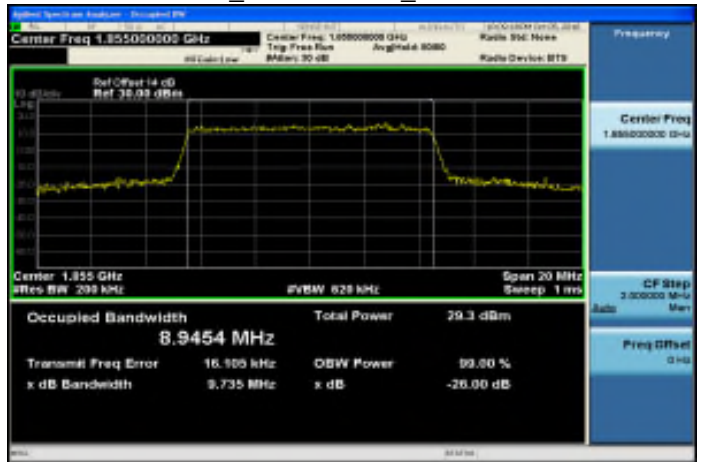
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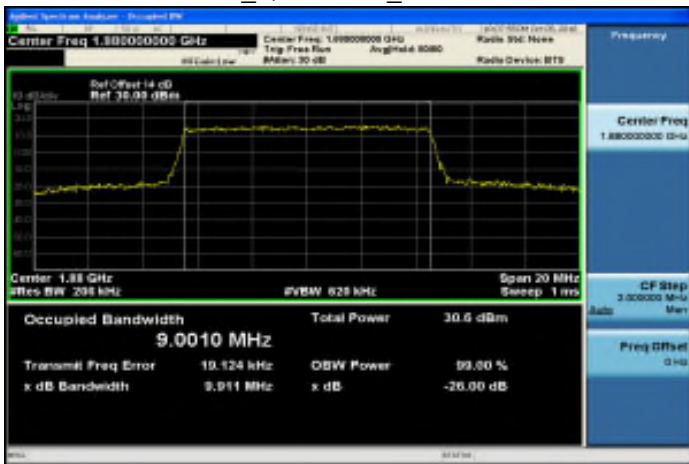
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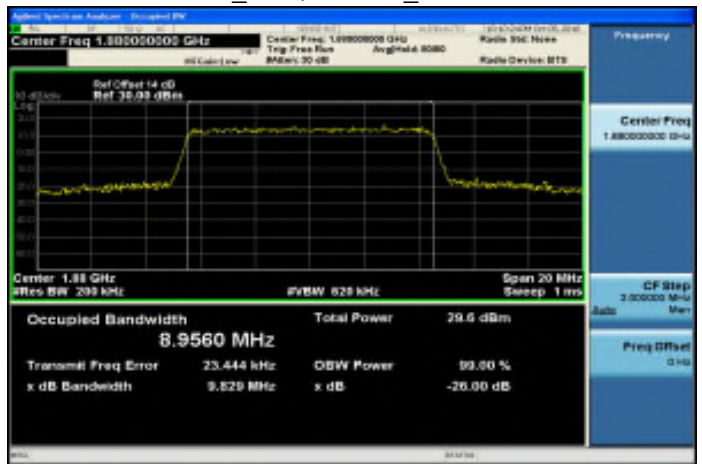
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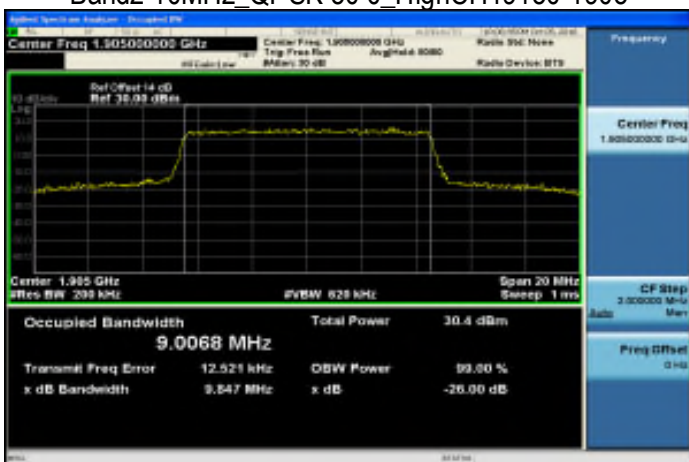
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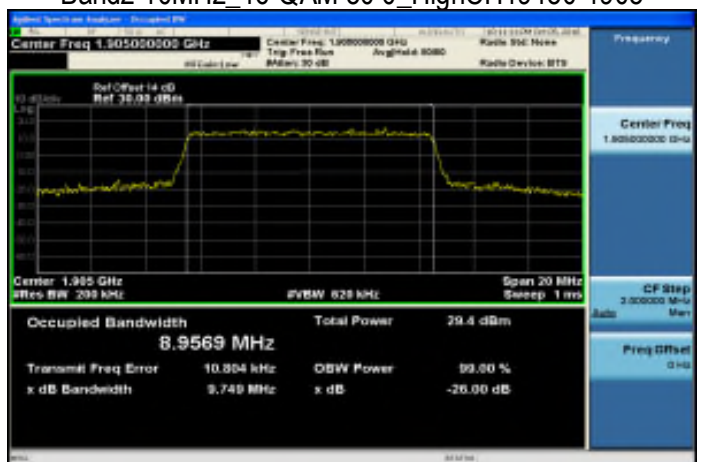
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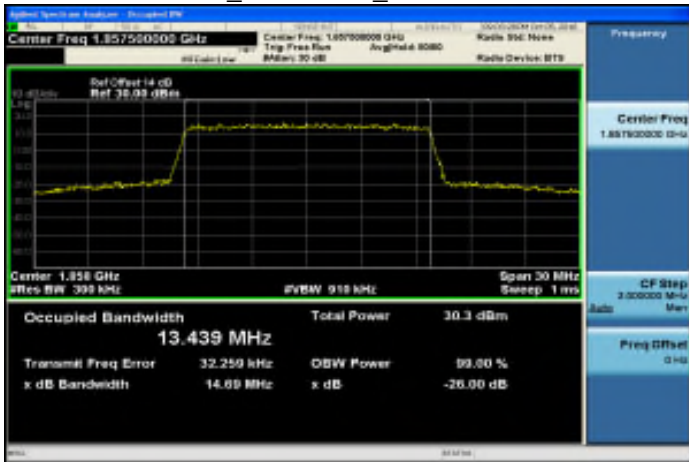
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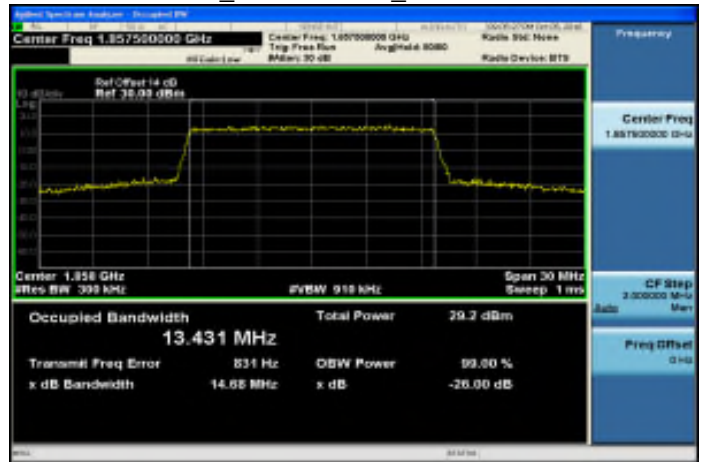
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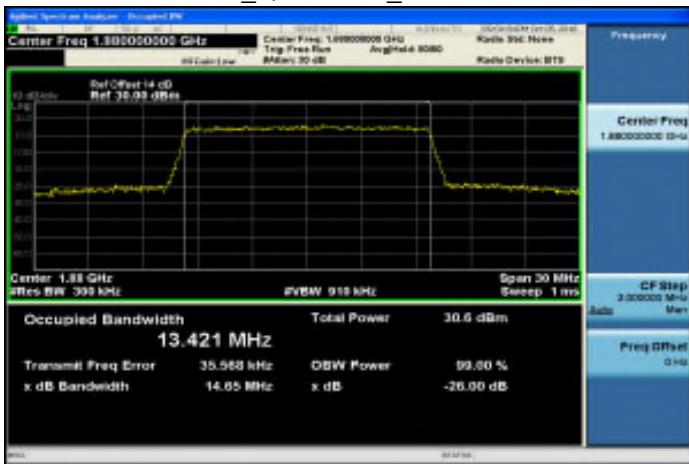
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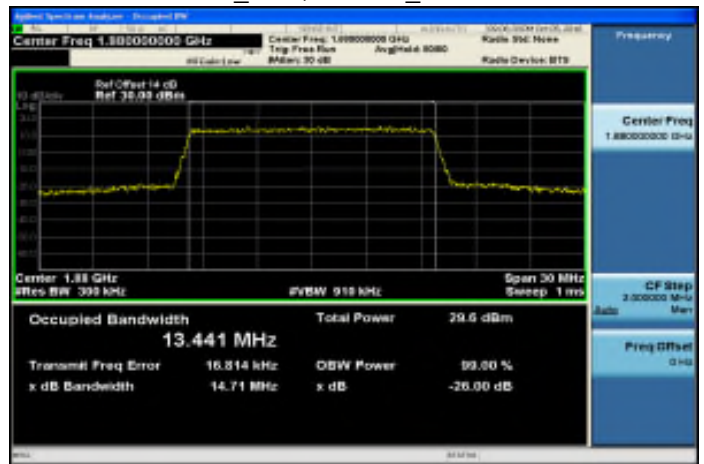
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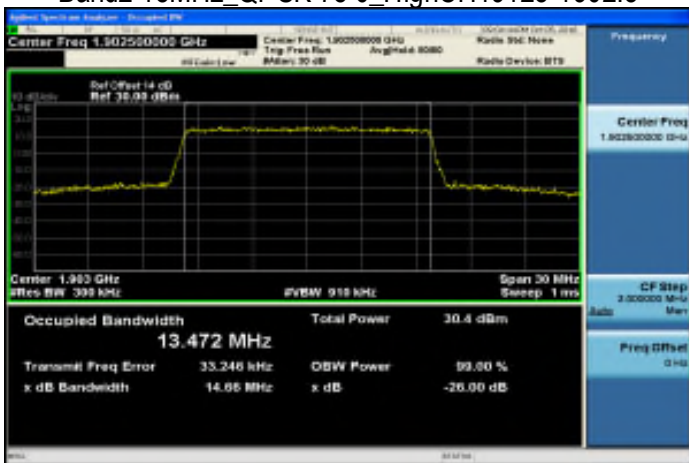
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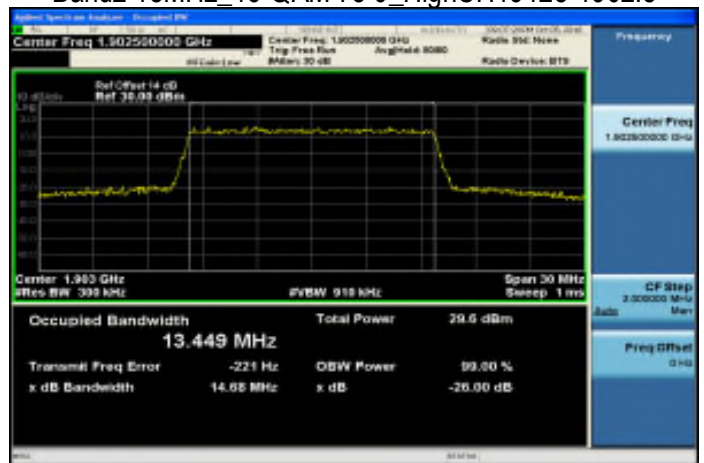
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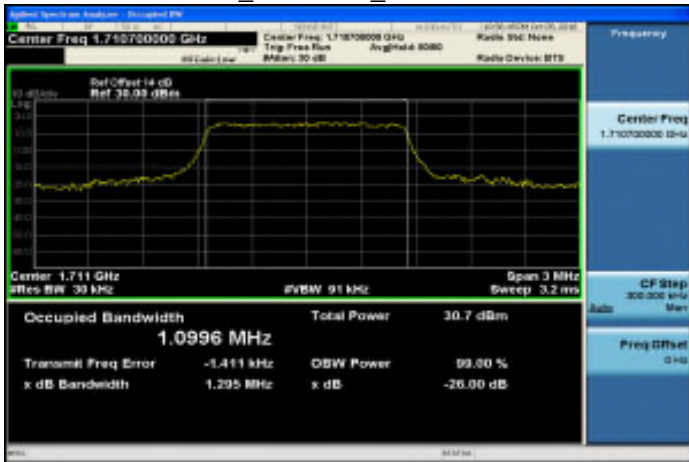
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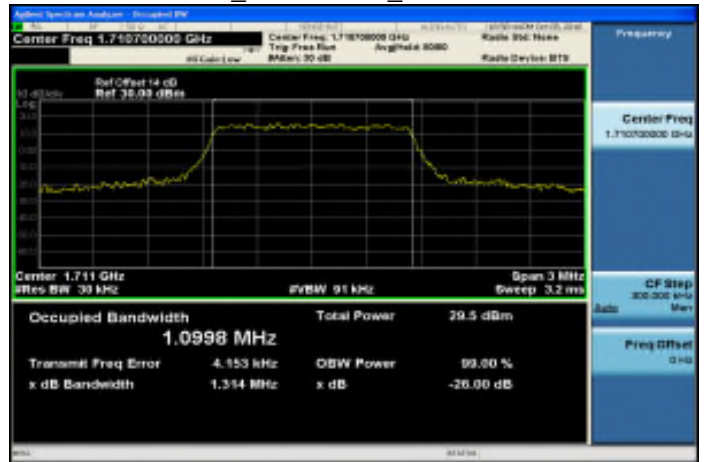




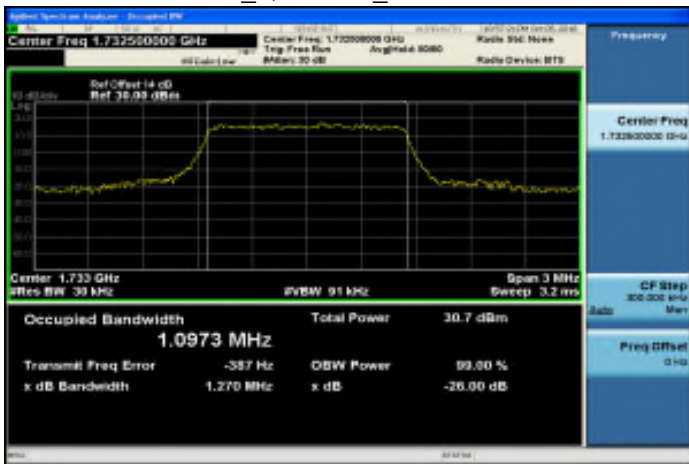
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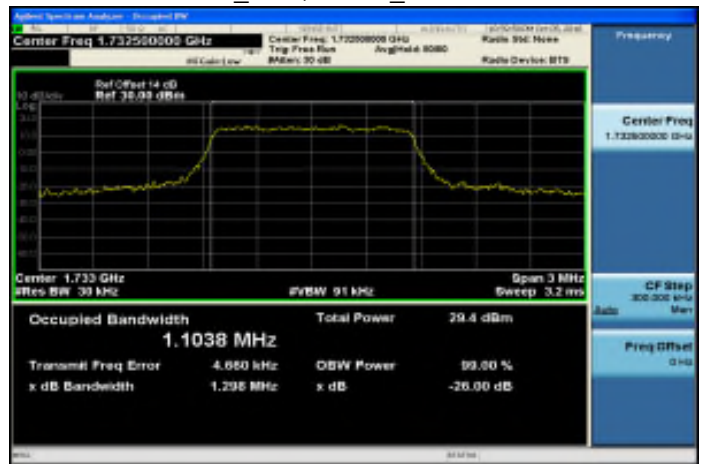
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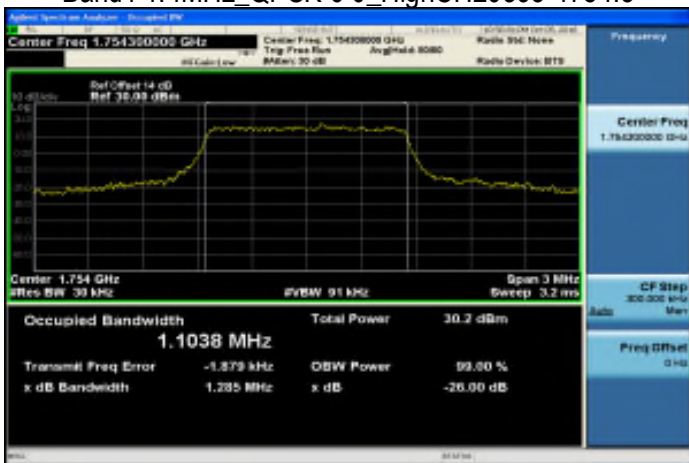
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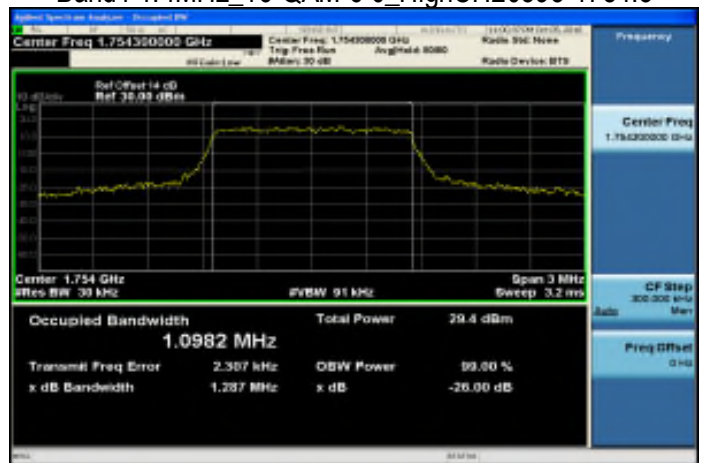
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Band4 1.4MHz\_QPSK 6 0\_HighCH20393-1754.3



Band4 1.4MHz\_16-QAM 6 0\_HighCH20393-1754.3



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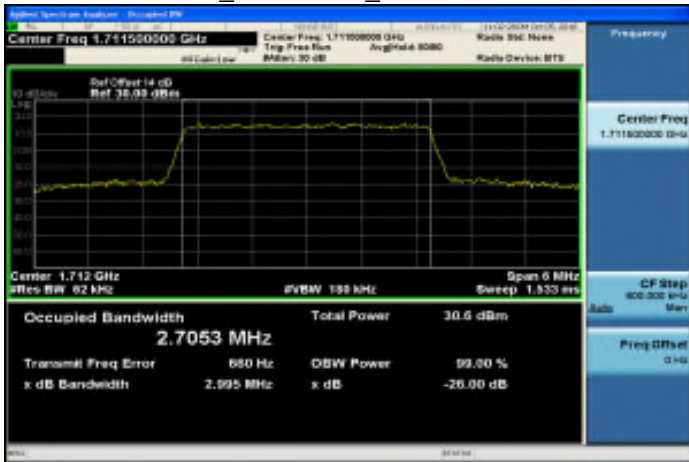
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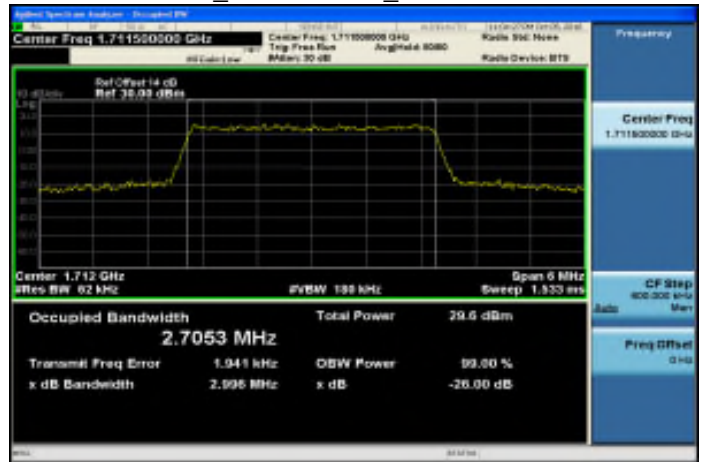
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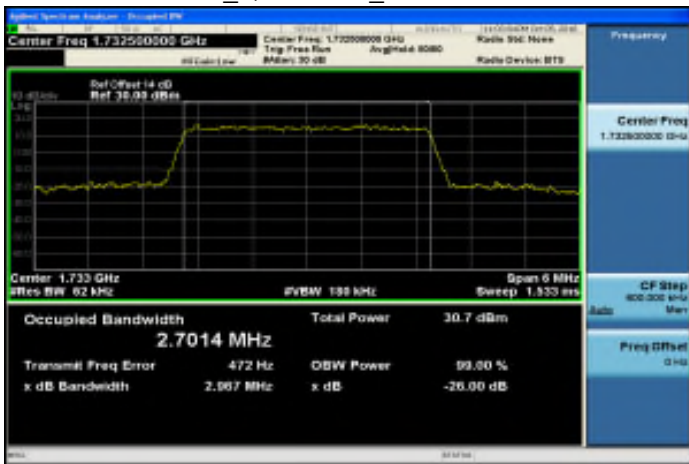
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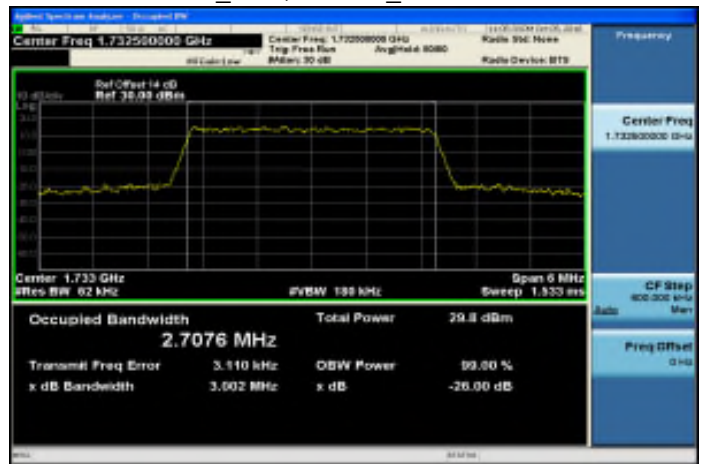
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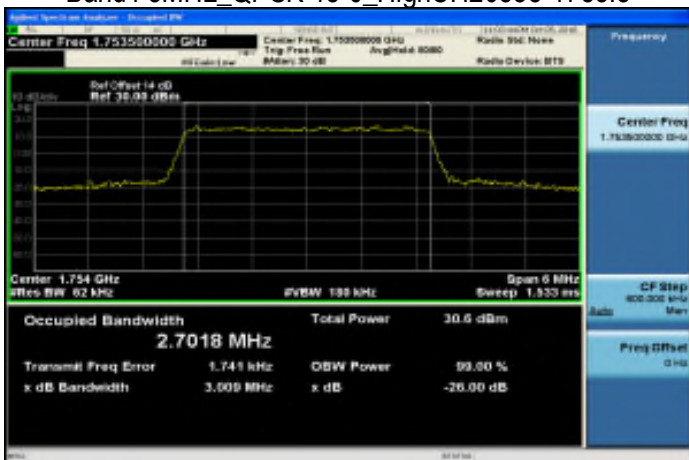
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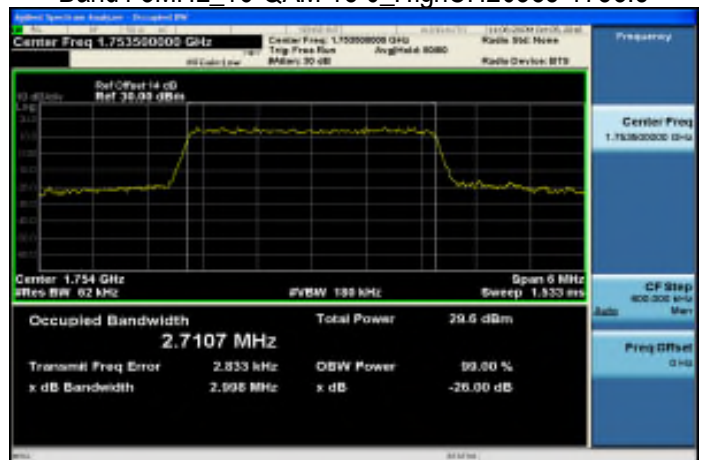
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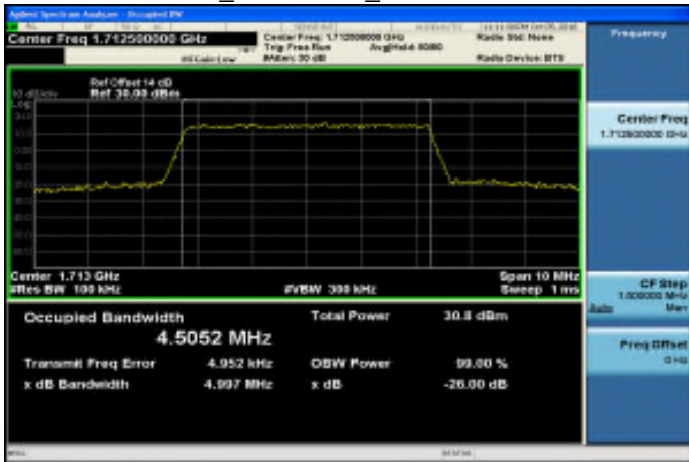
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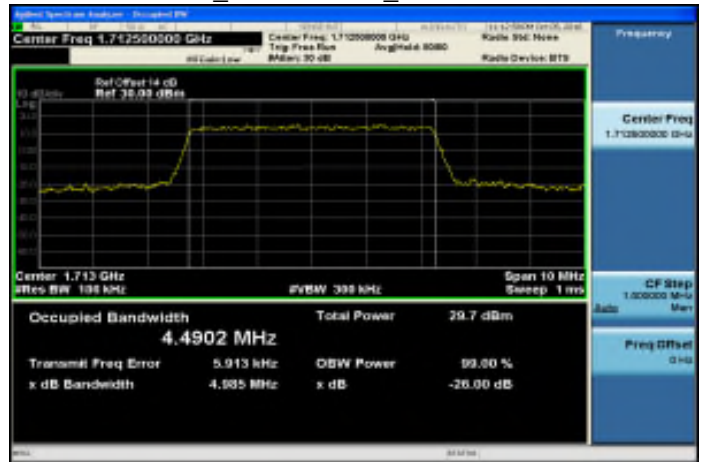
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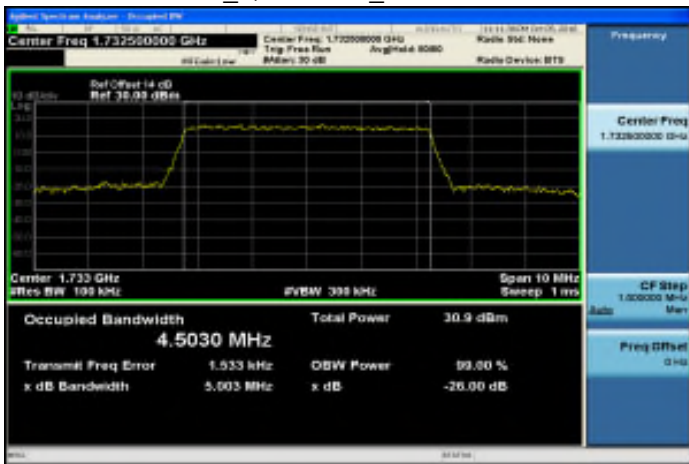
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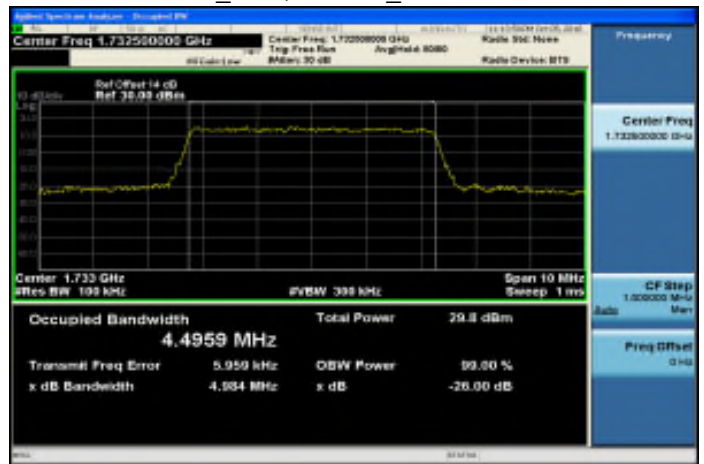
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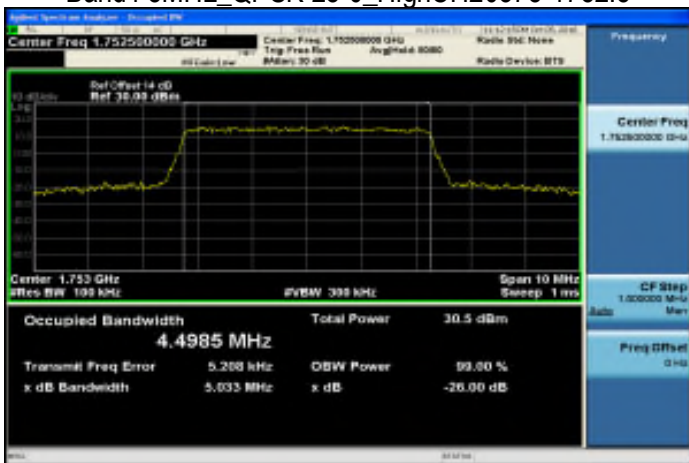
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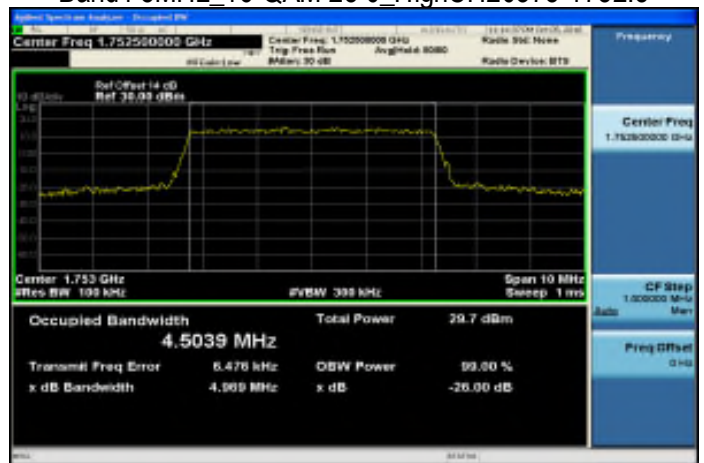
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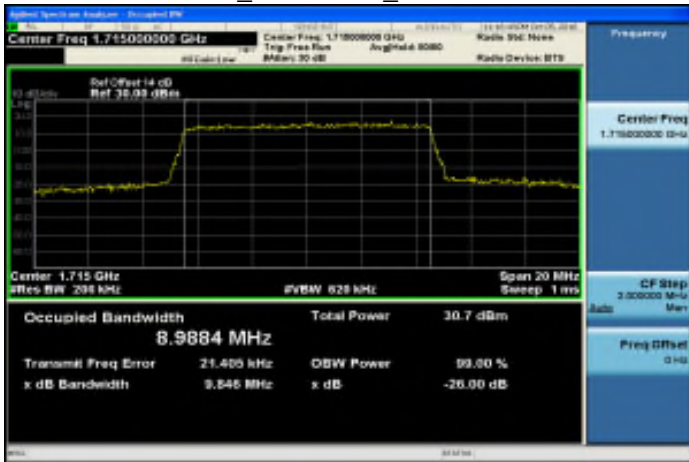
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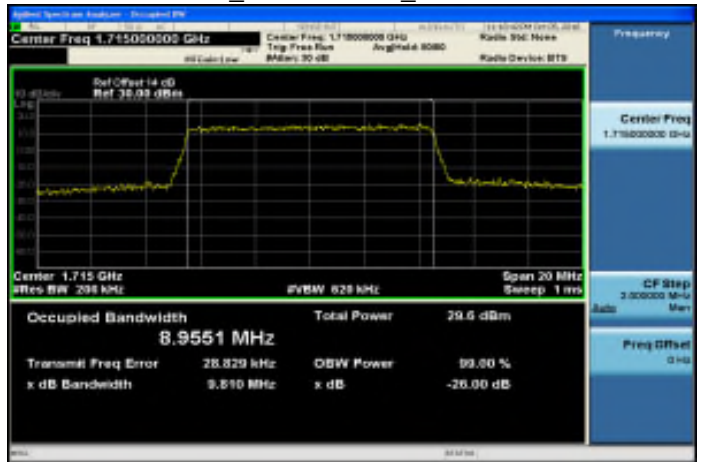
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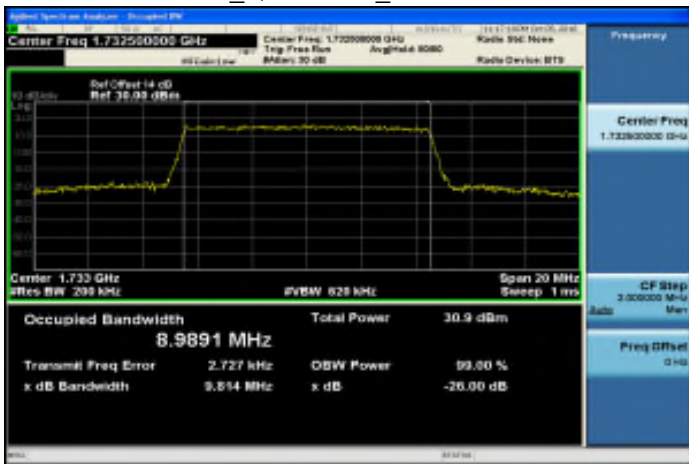
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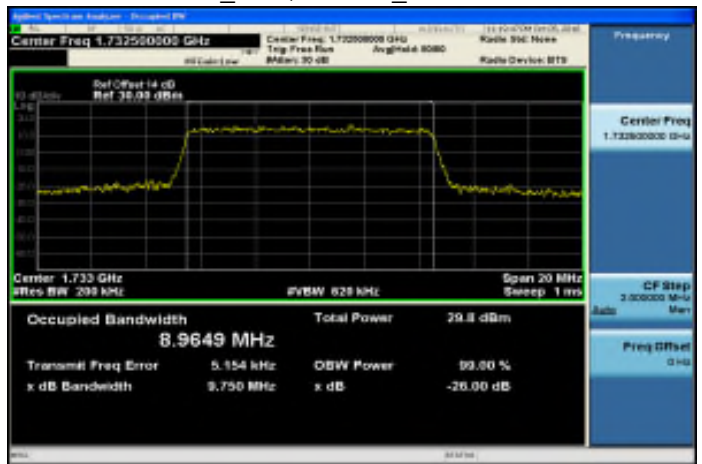
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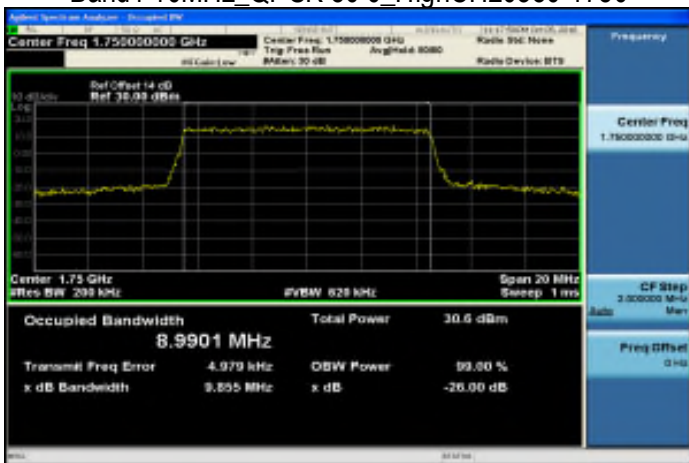
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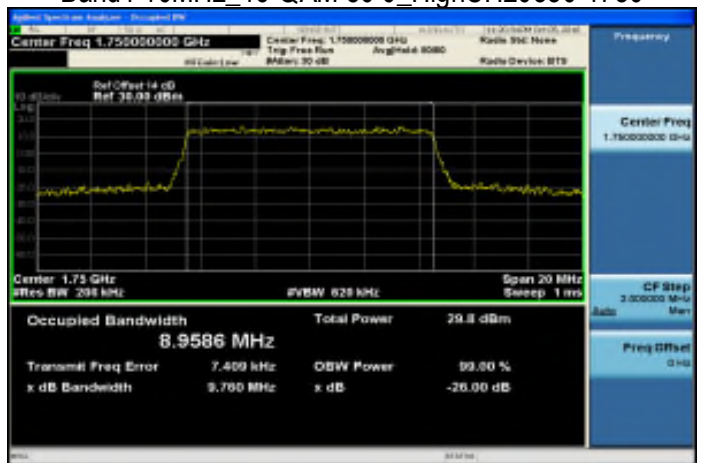
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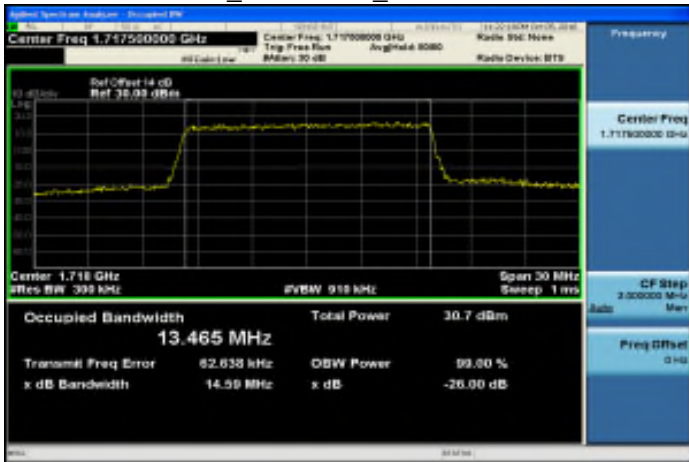
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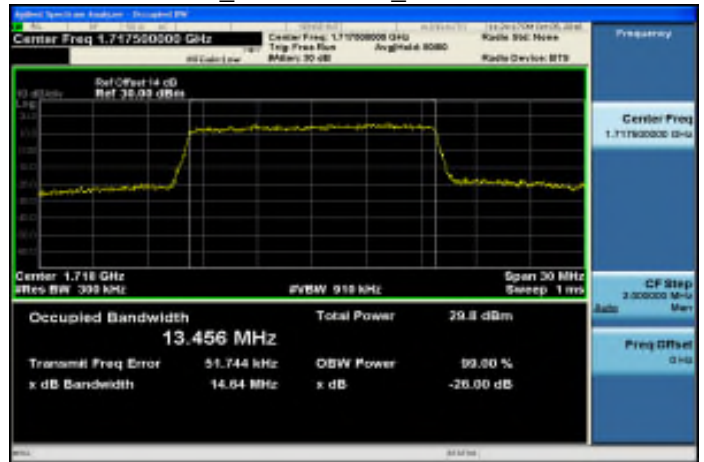
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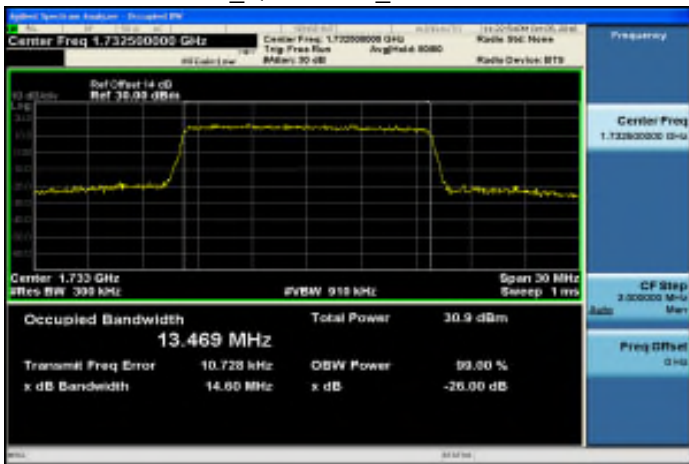
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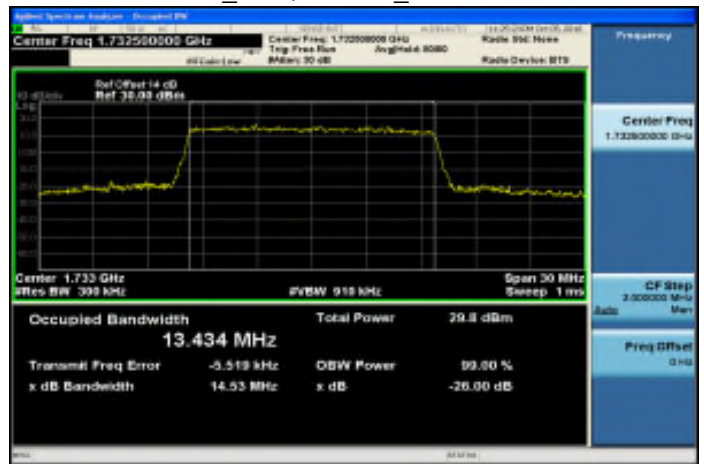
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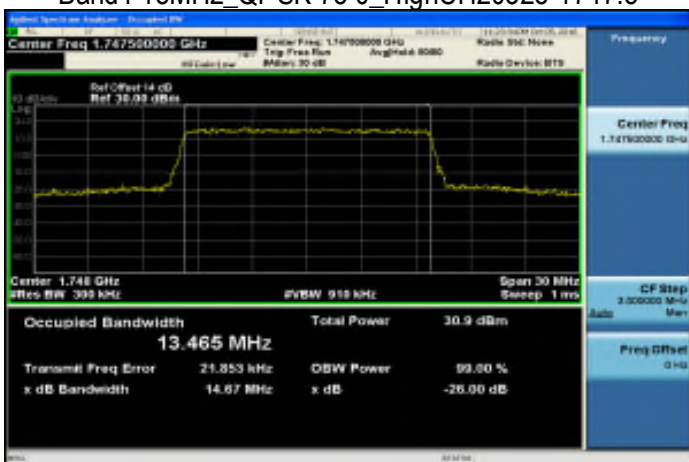
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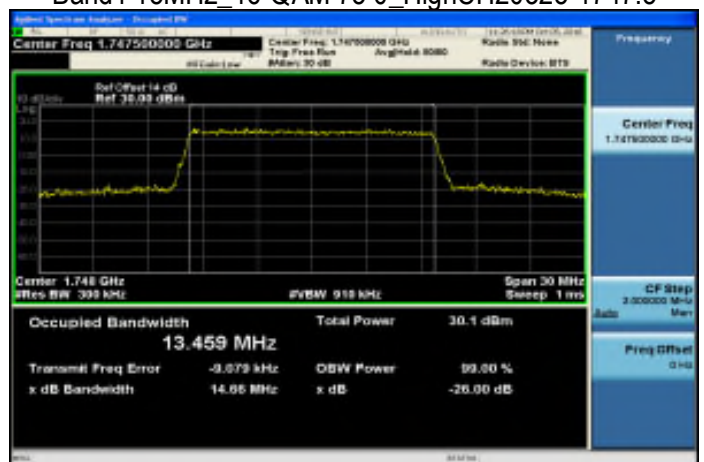
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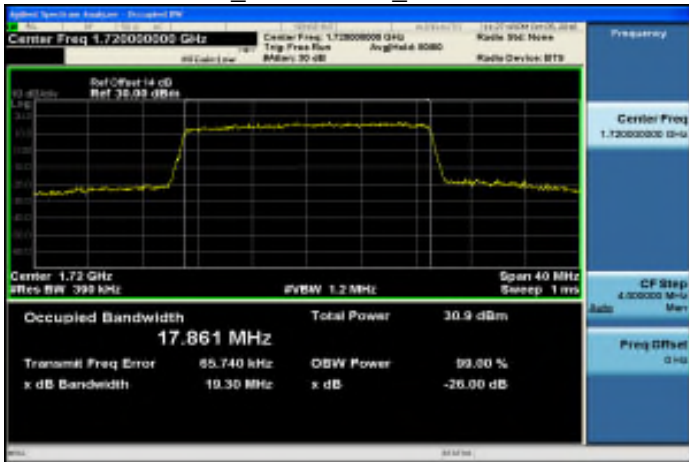
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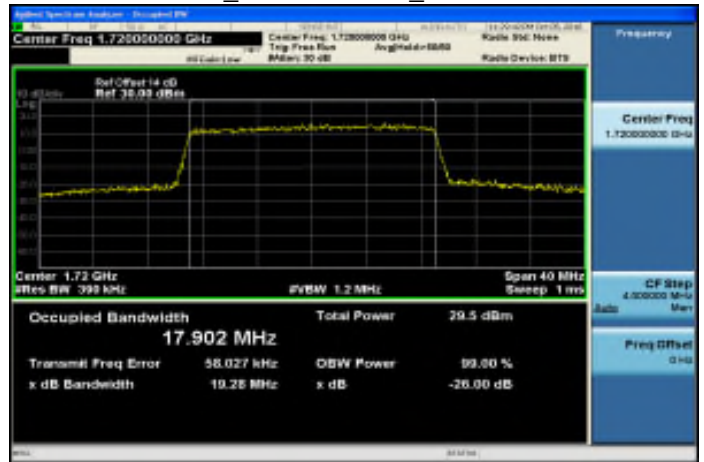
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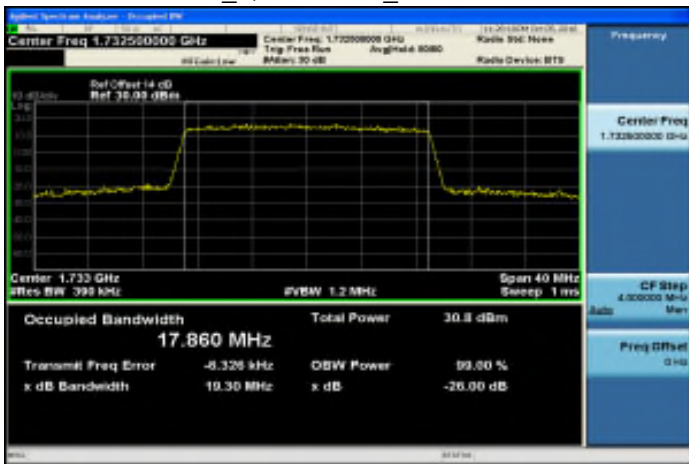
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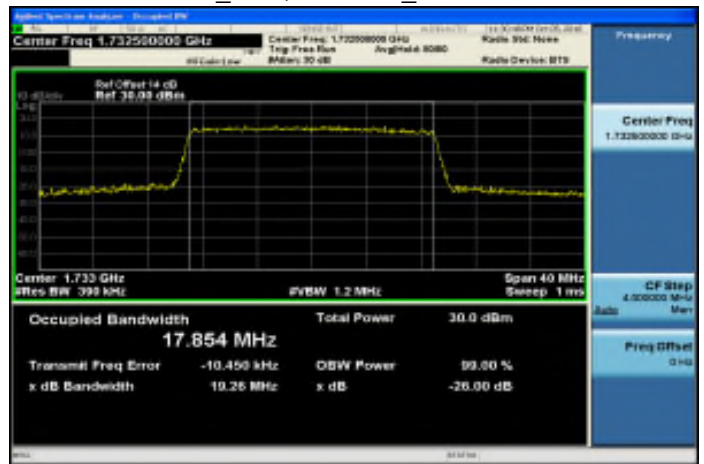
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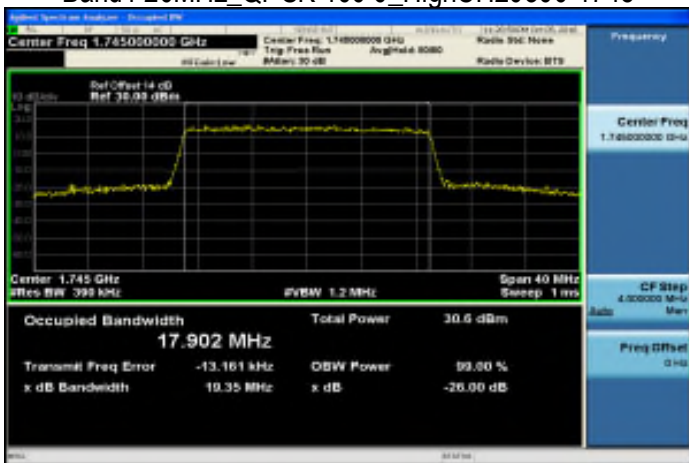
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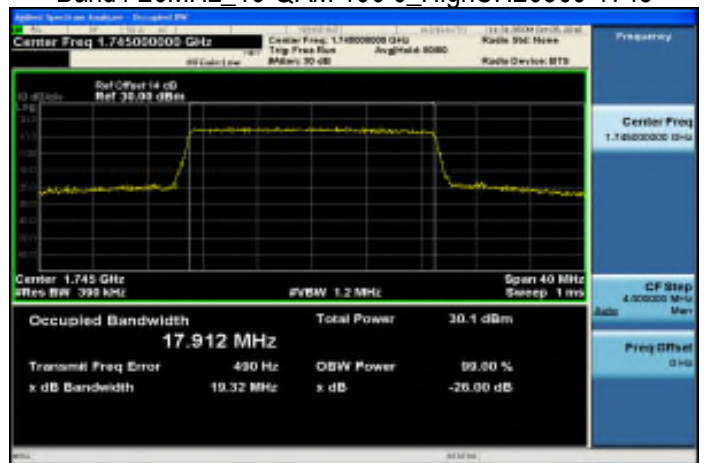
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Band4 20MHz\_16-QAM 100 0\_HighCH20300-1745



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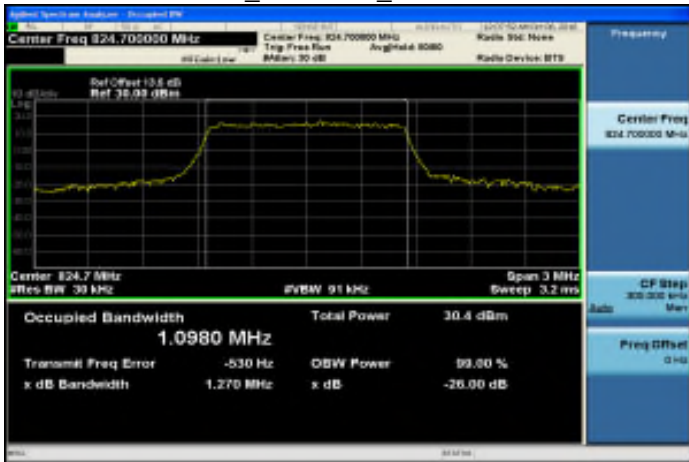
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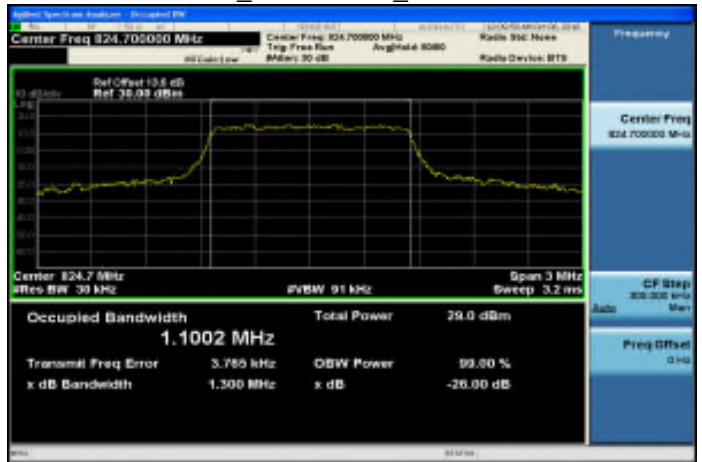
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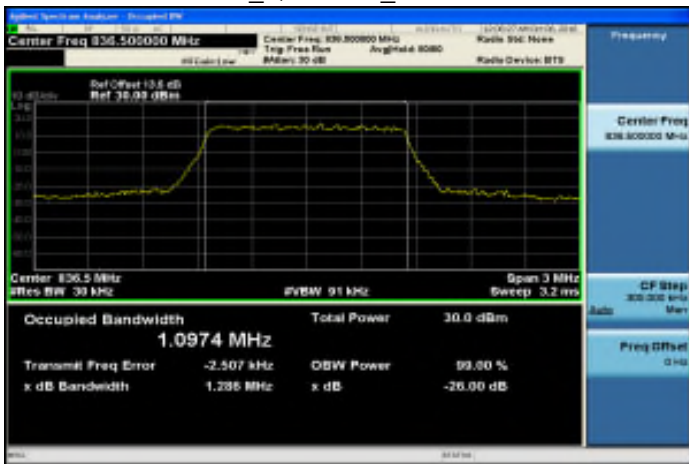
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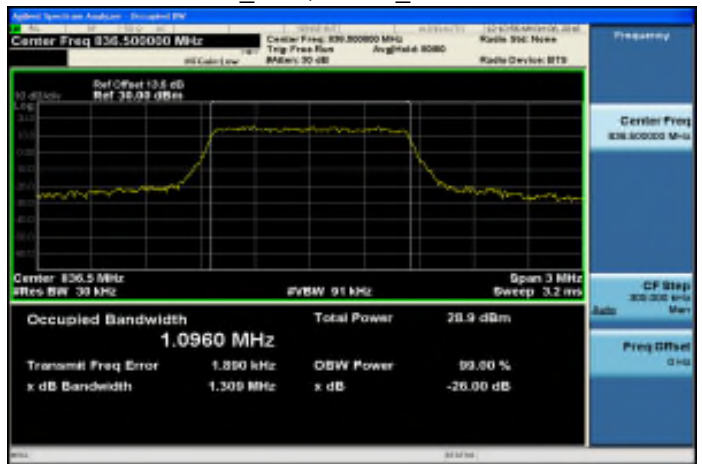
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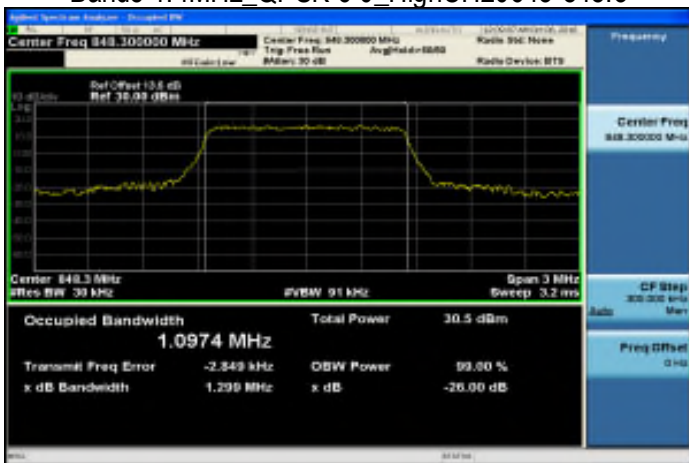
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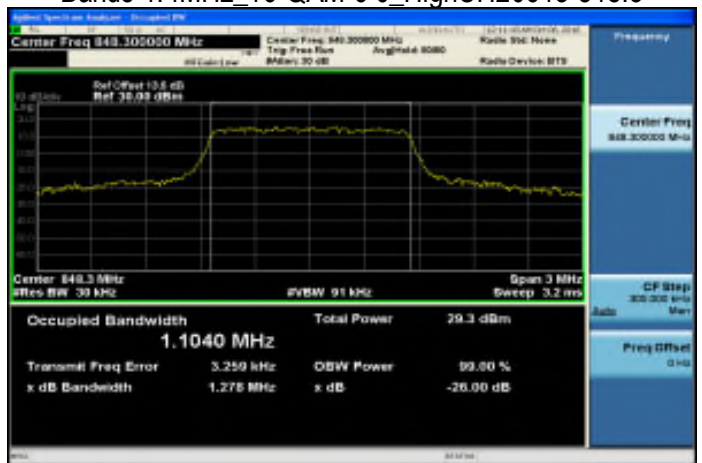
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Band5 1.4MHz\_16-QAM 6 0\_HighCH20643-848.3



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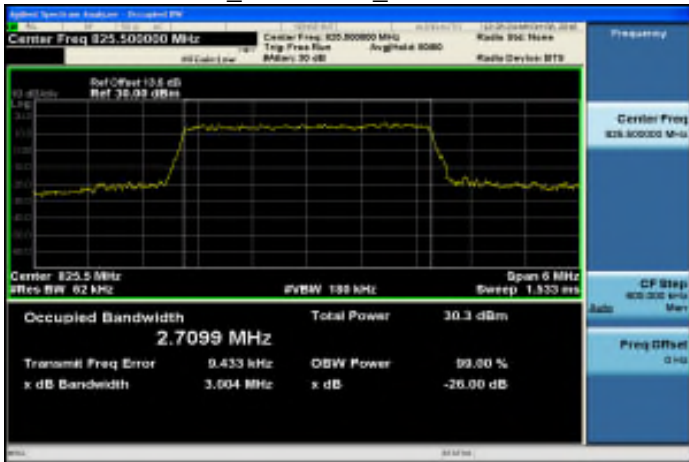
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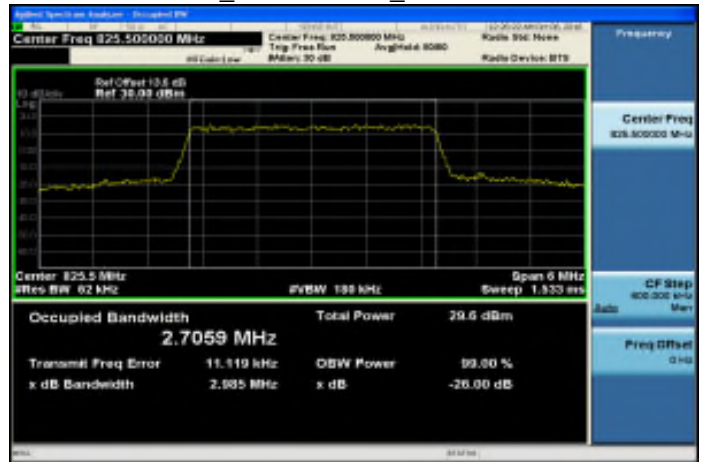
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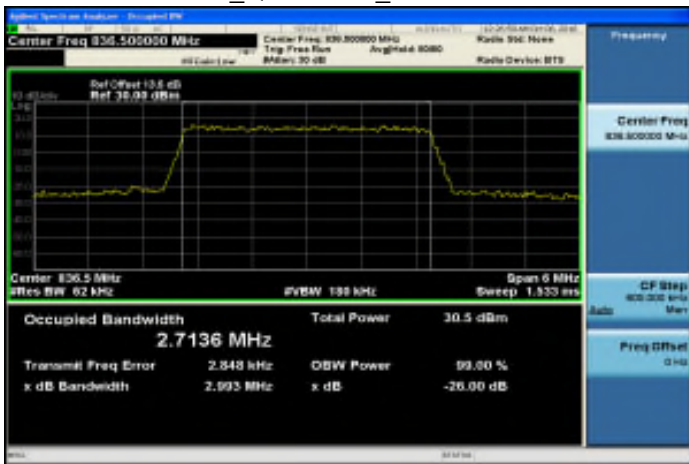
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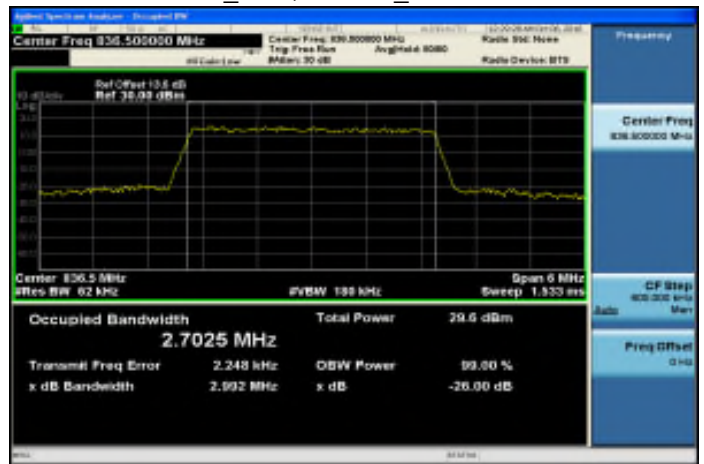
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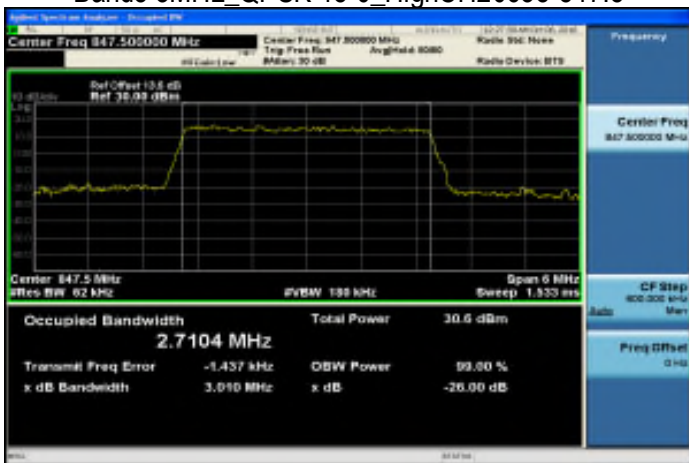
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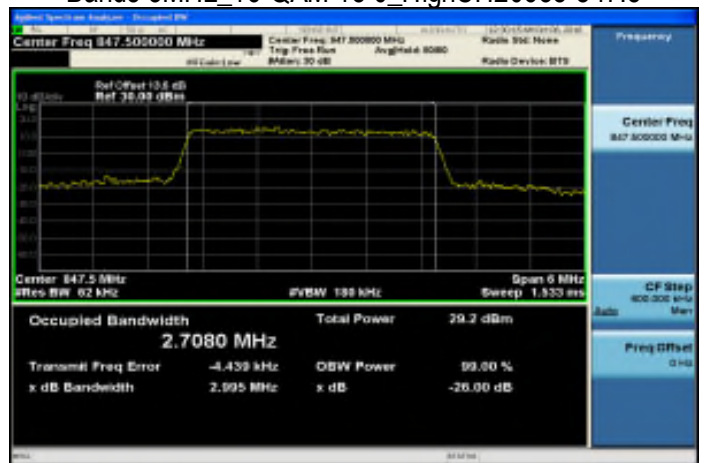
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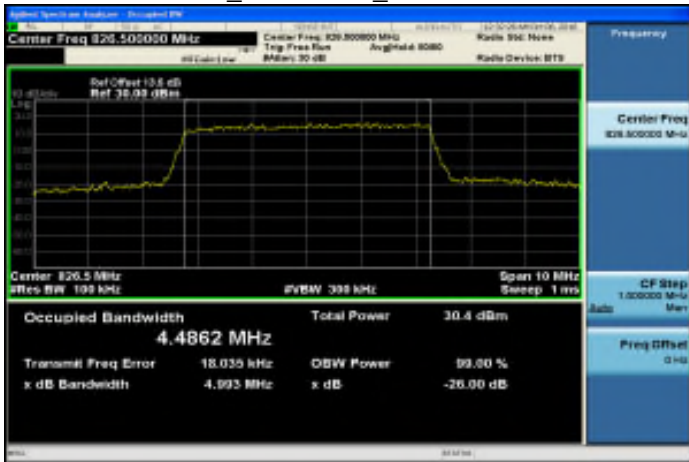
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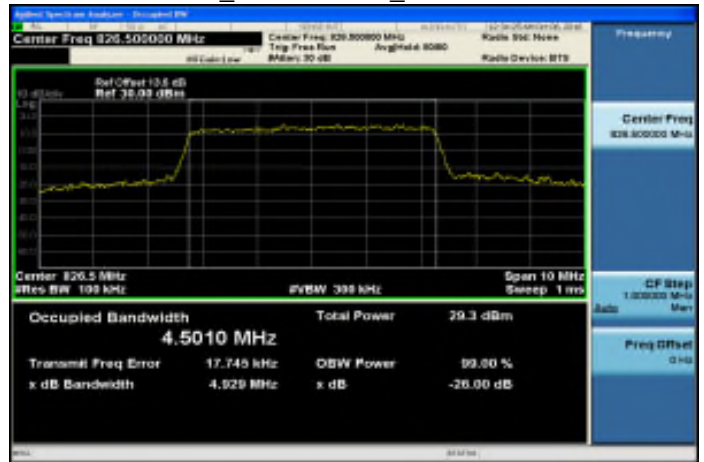
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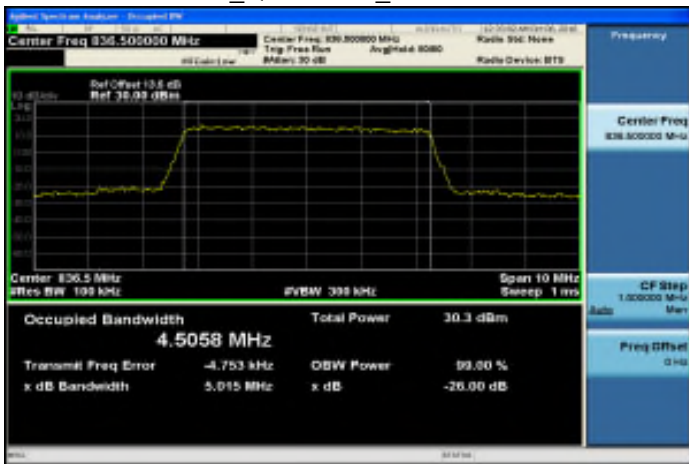
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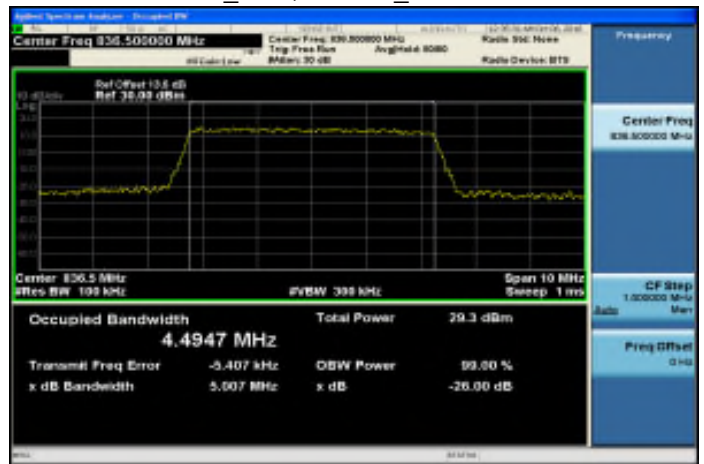
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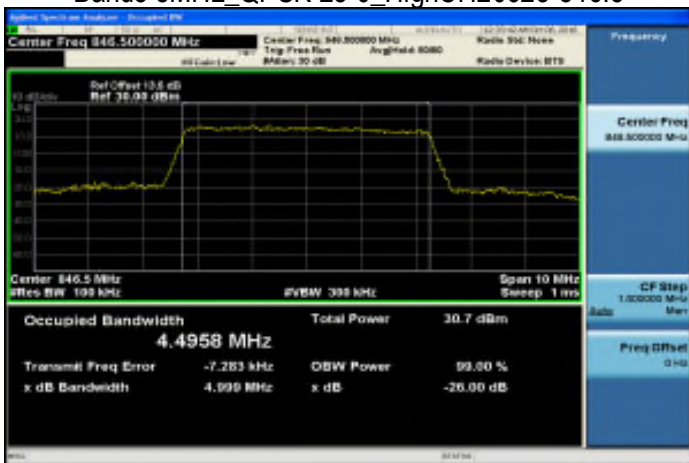
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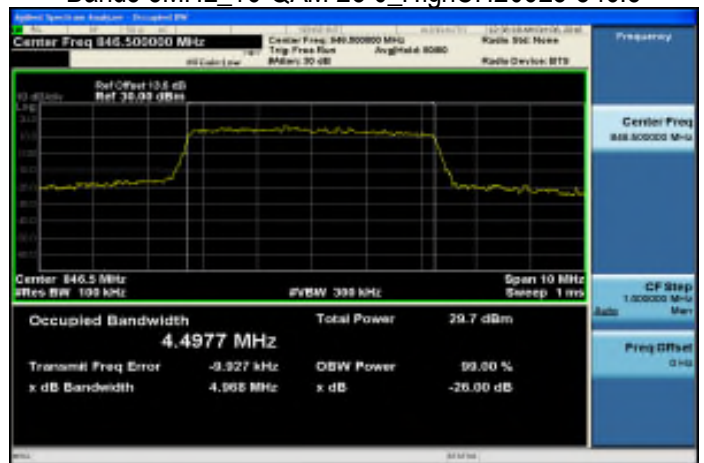
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Band5 5MHz\_QPSK 25 0\_HighCH20625-846.5



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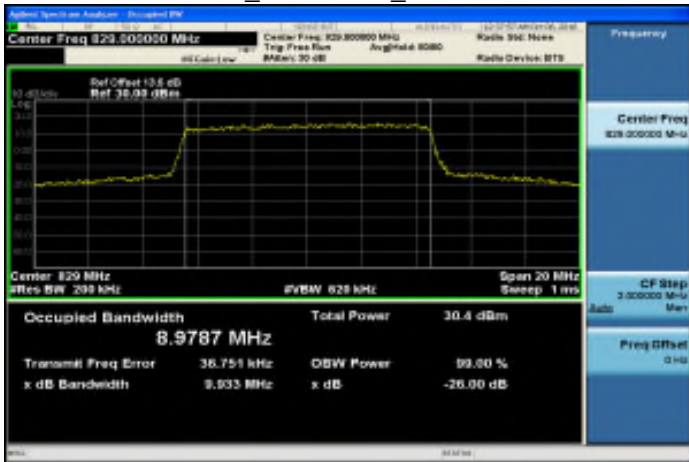
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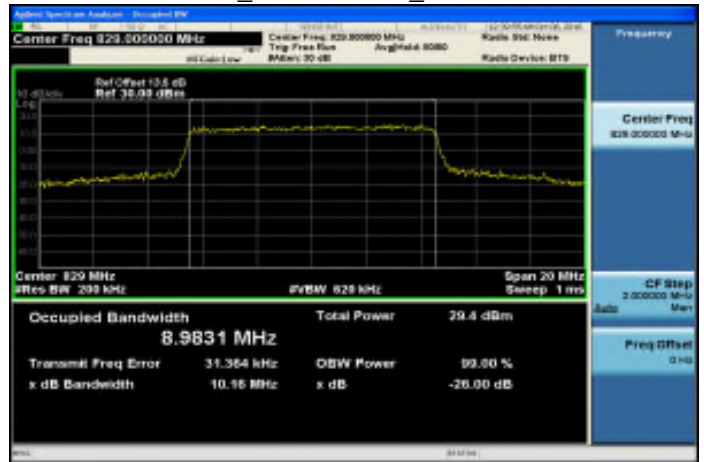
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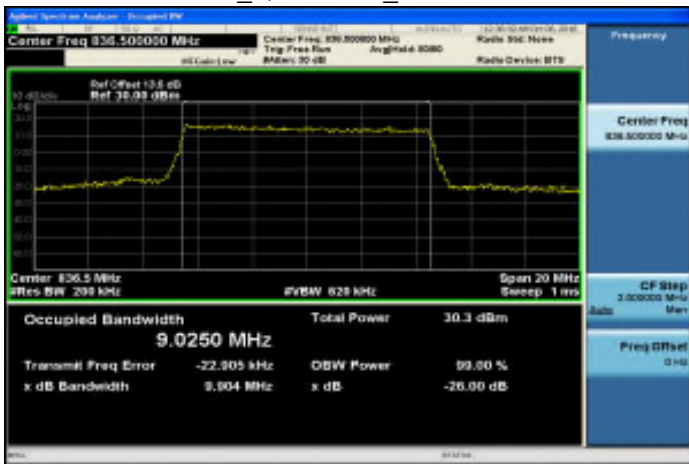
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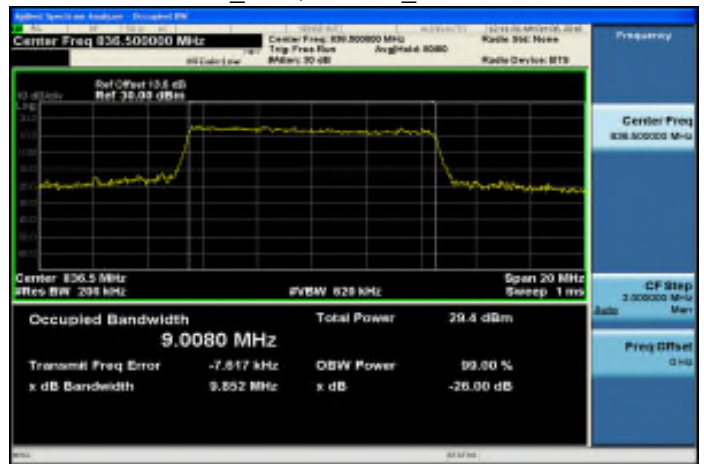
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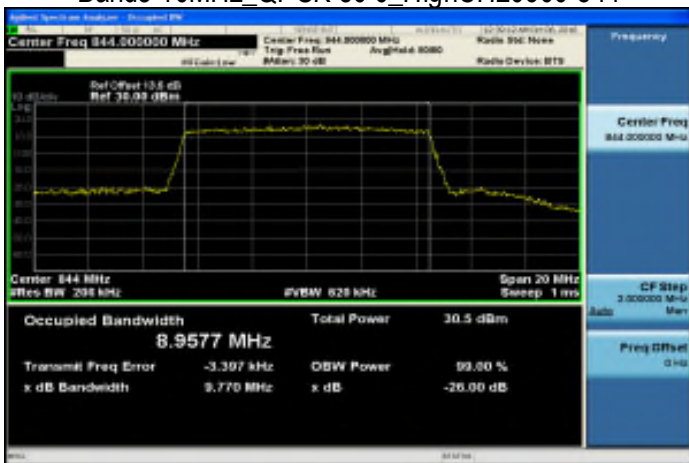
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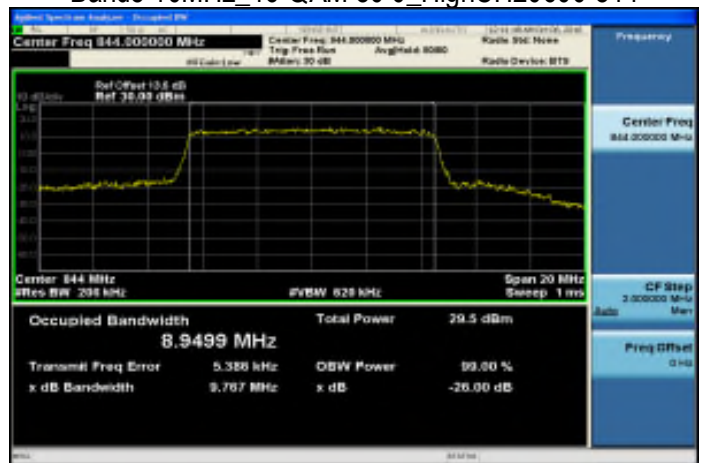
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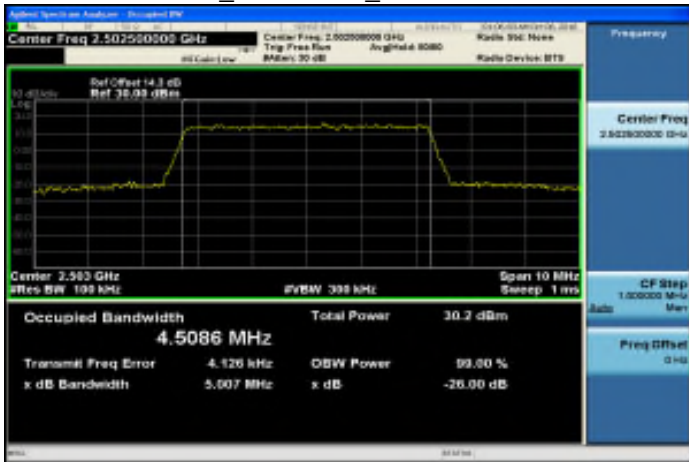
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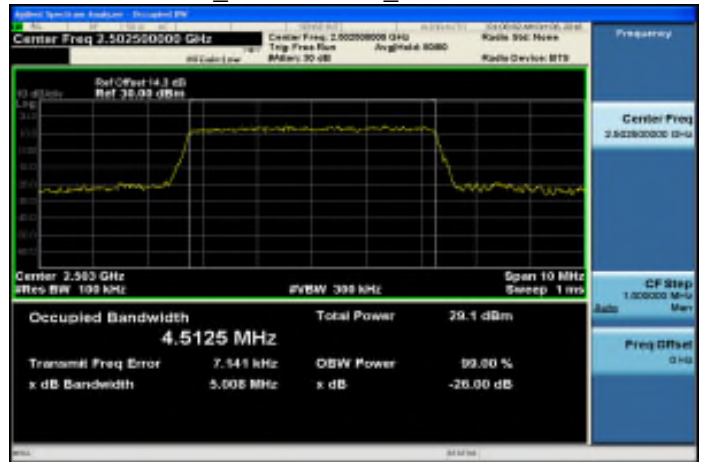
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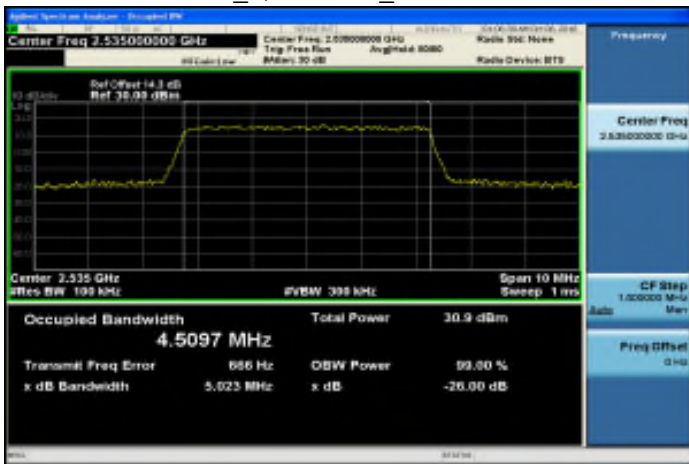
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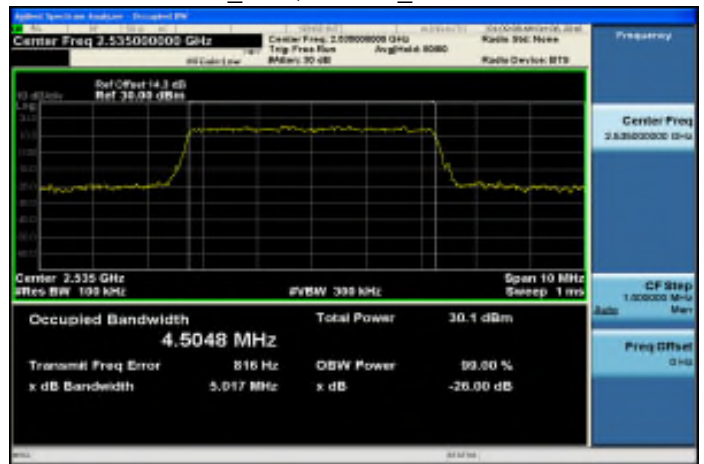
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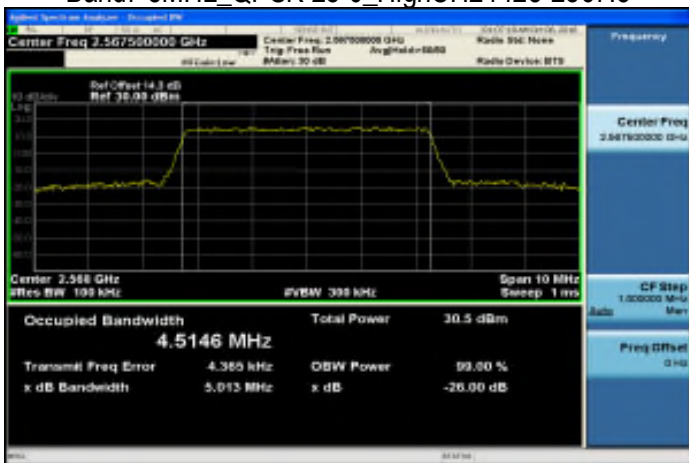
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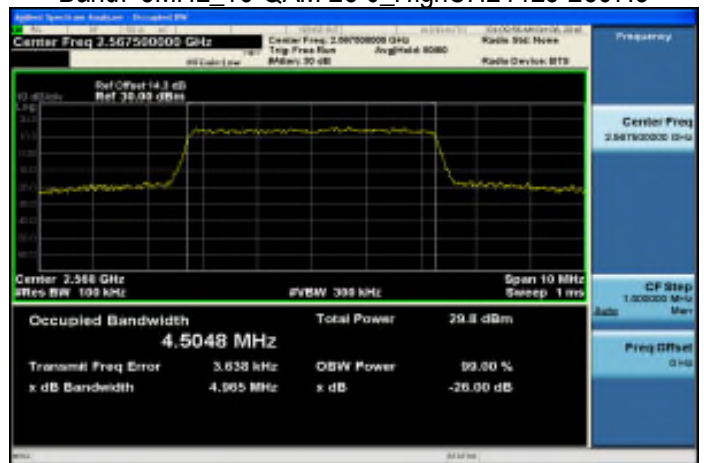
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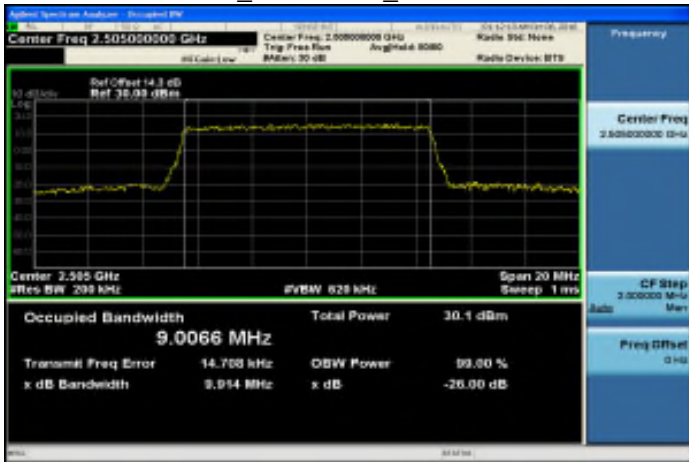
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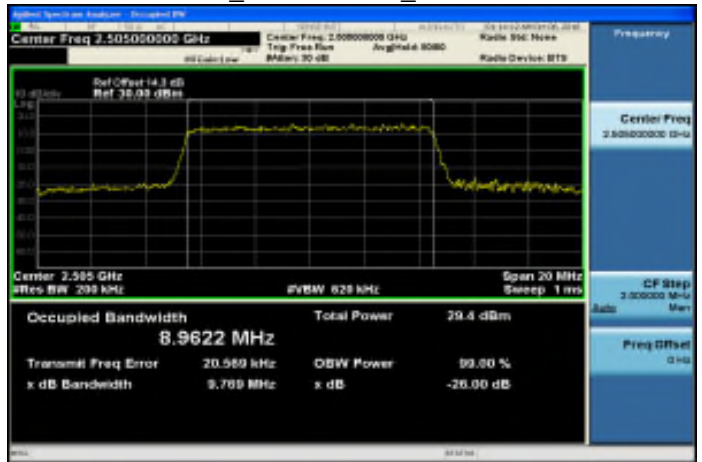
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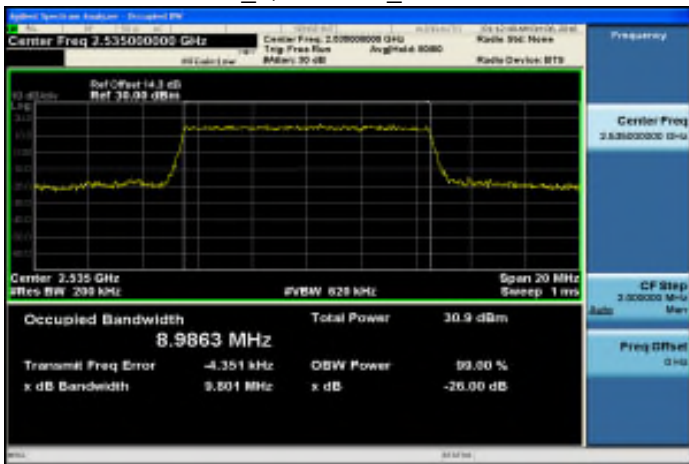
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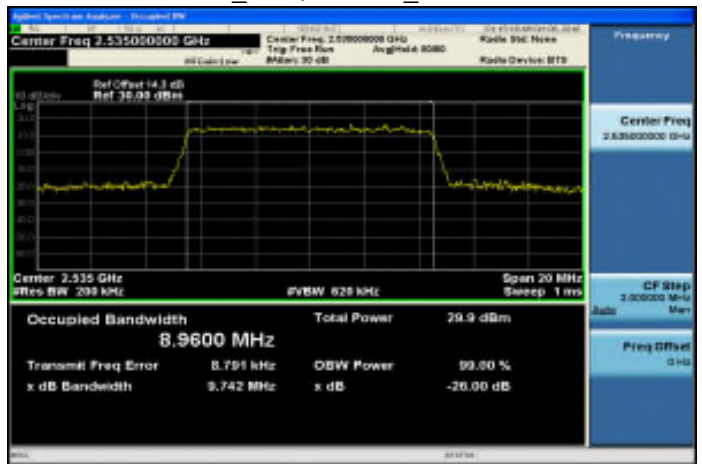
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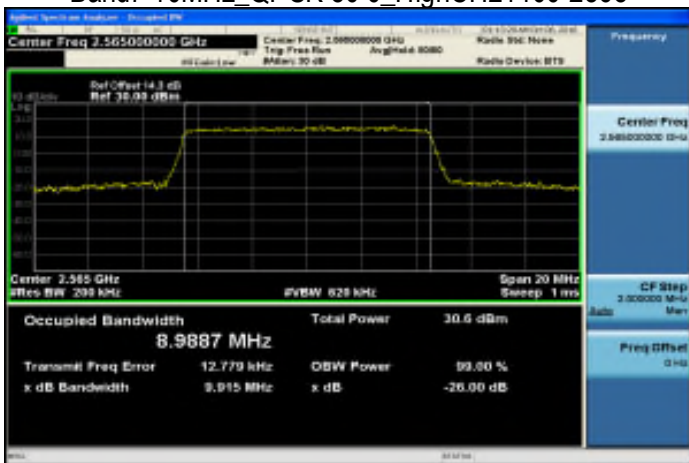
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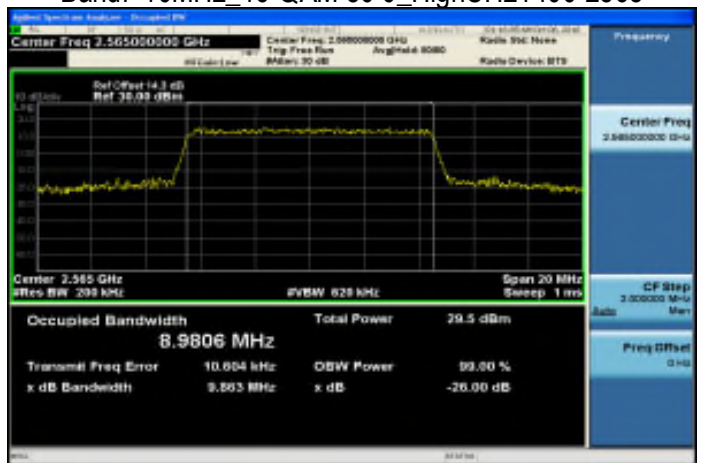
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Band7 10MHz\_16-QAM 50 0\_HighCH21400-2565



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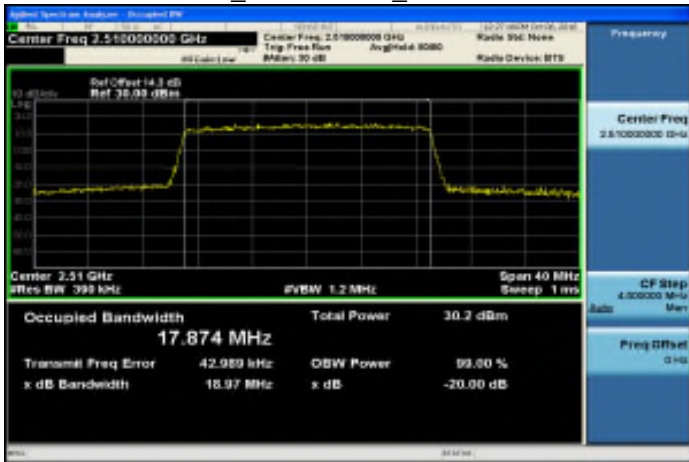
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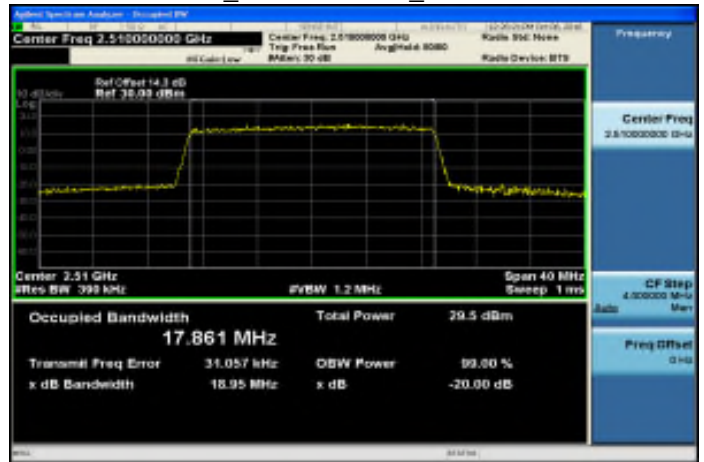




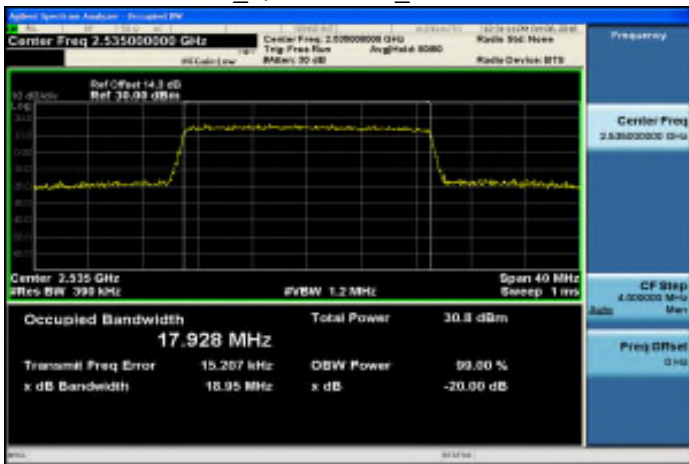
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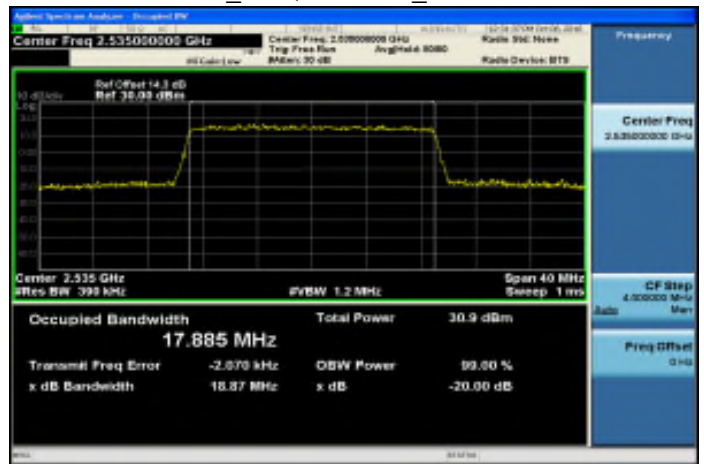
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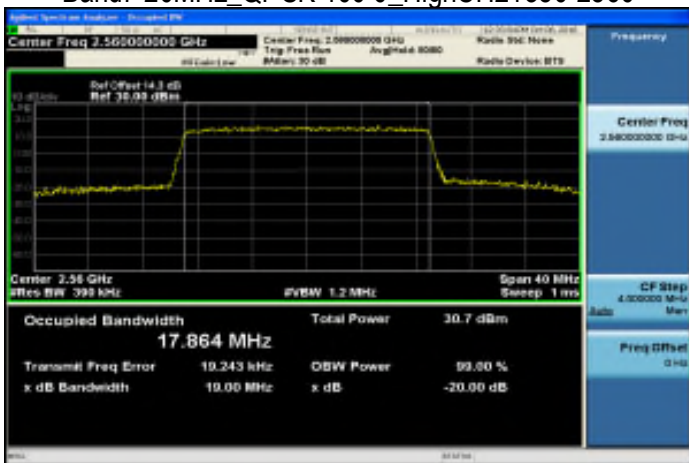
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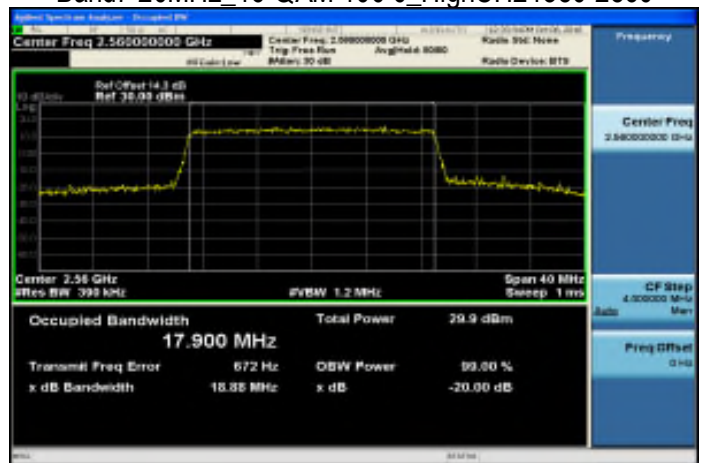
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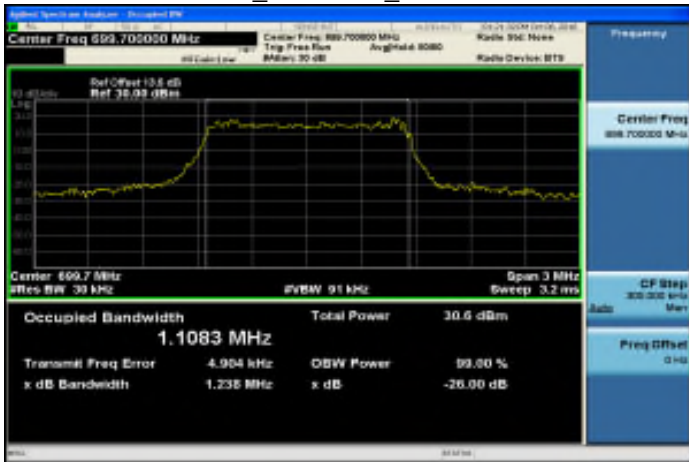
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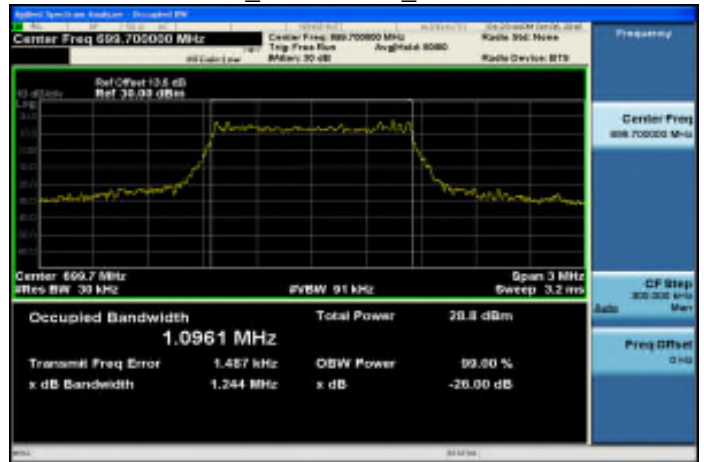
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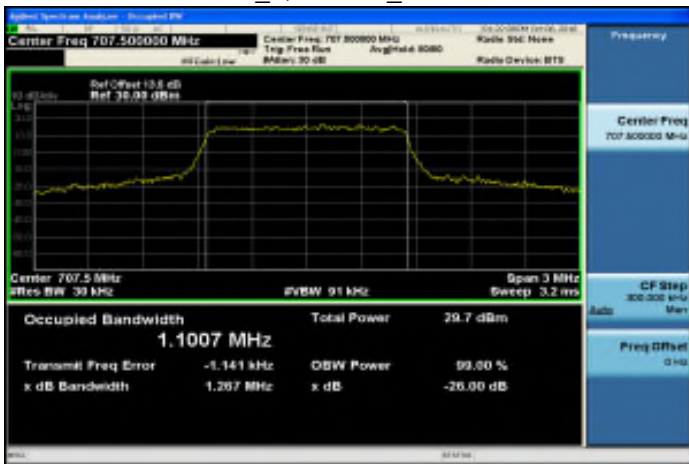
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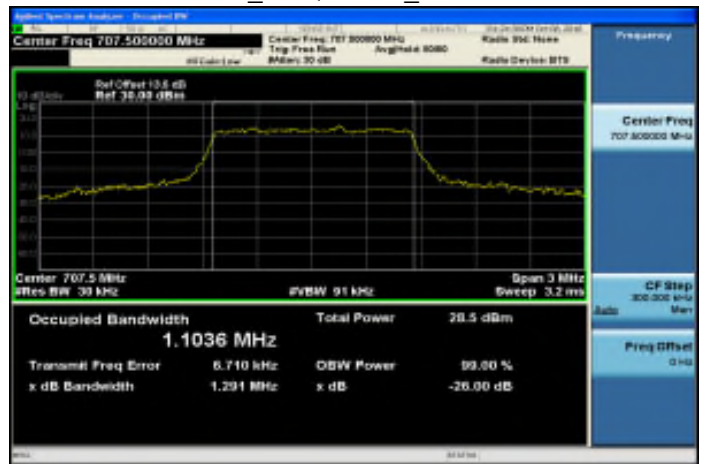
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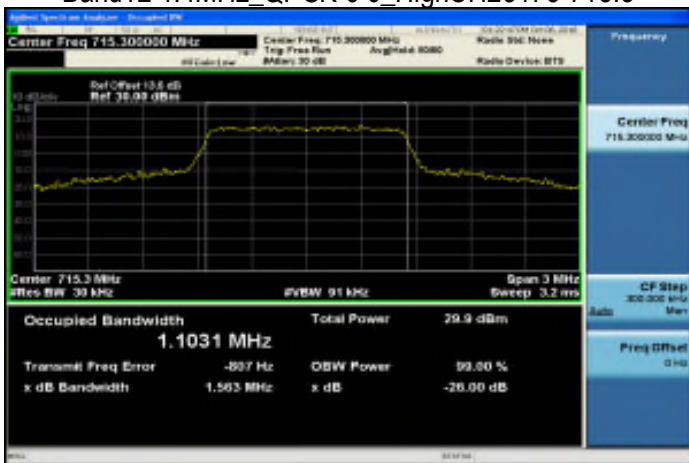
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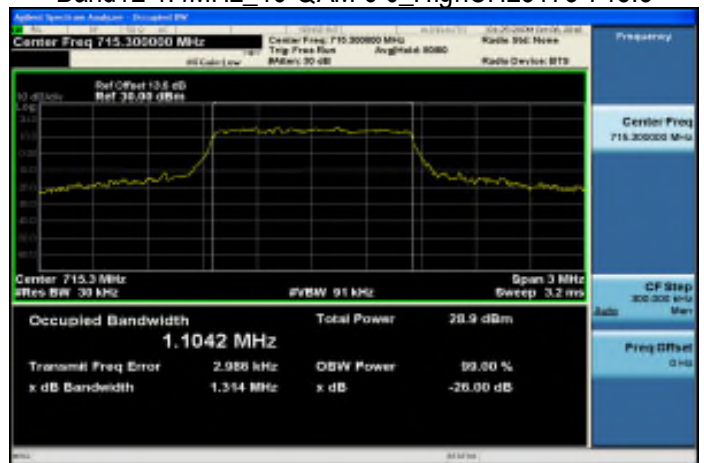
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Band12 1.4MHz\_QPSK 6 0\_HighCH23173-715.3



Band12 1.4MHz\_16-QAM 6 0\_HighCH23173-715.3



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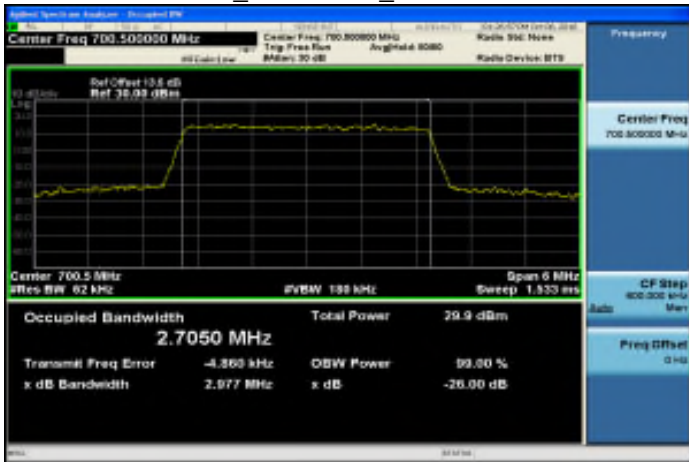
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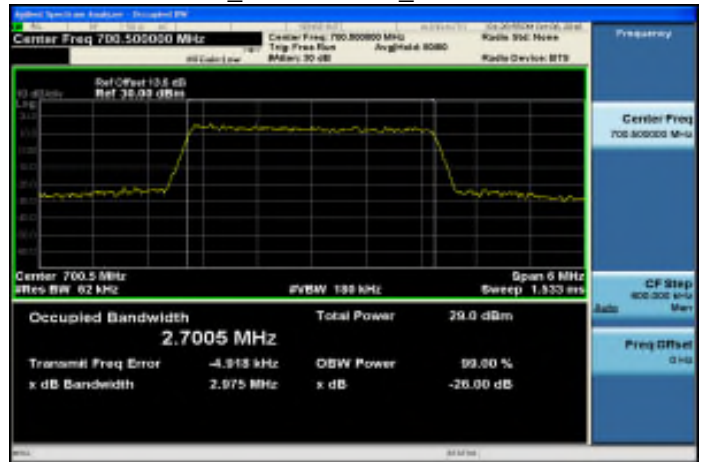
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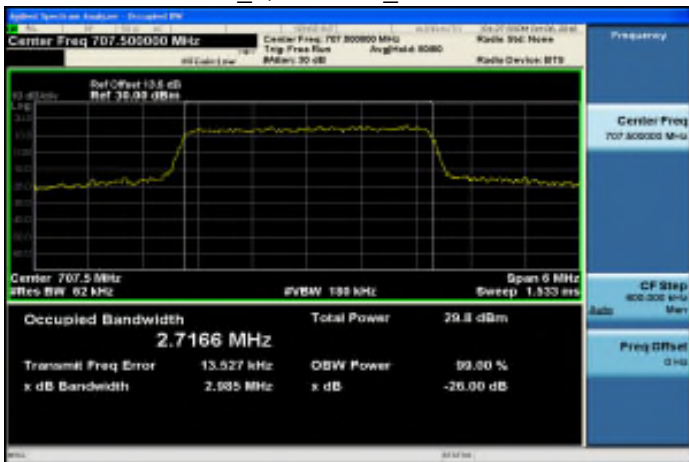
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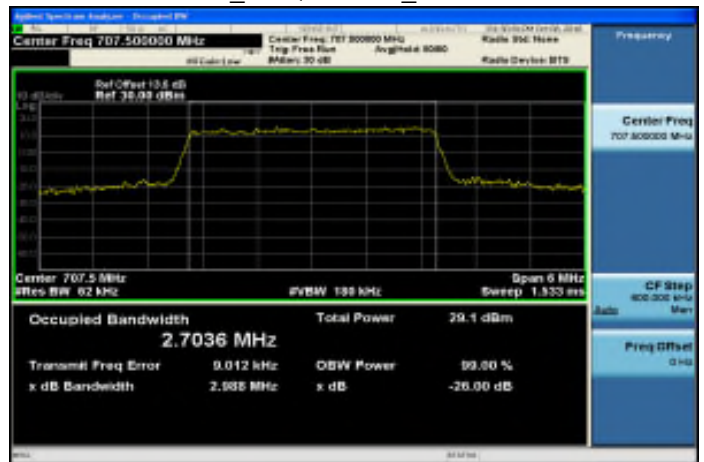
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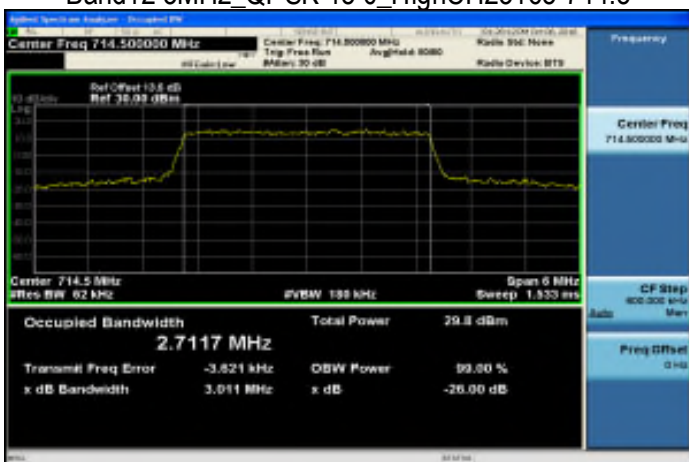
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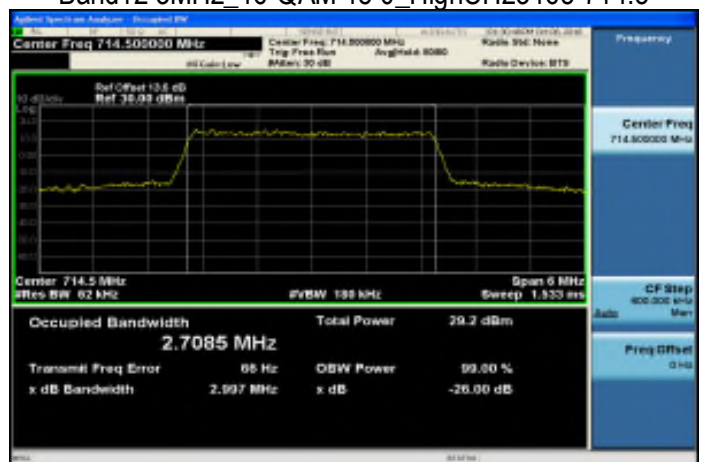
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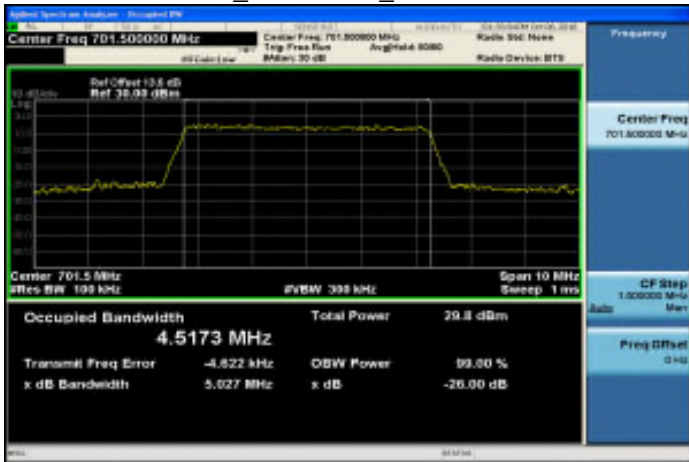
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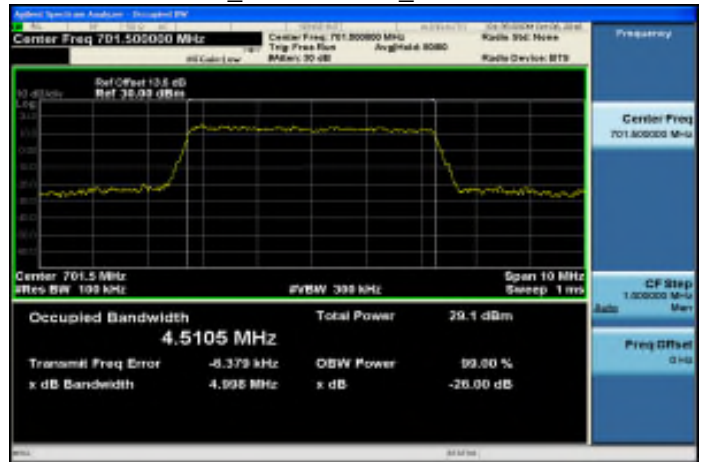
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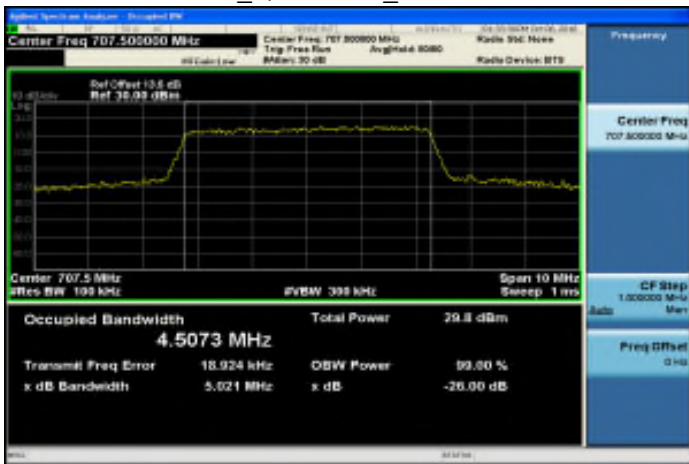
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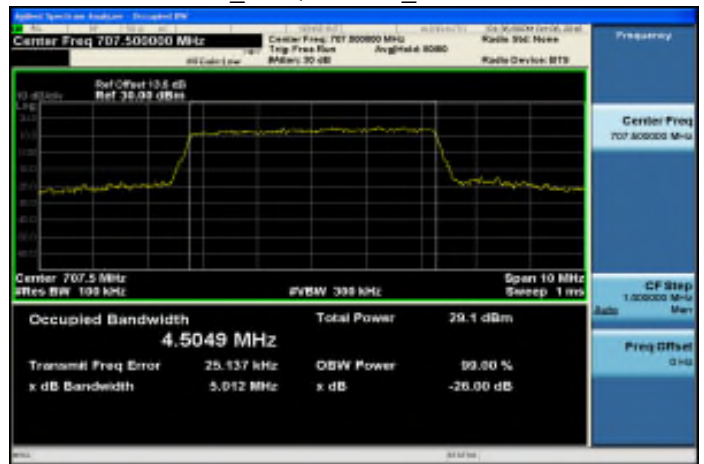
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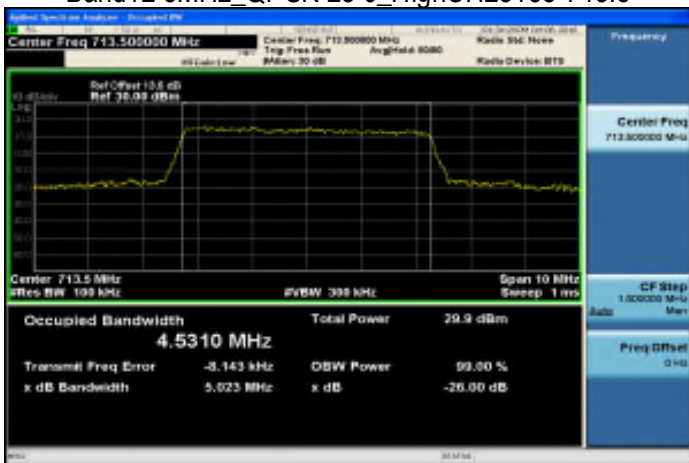
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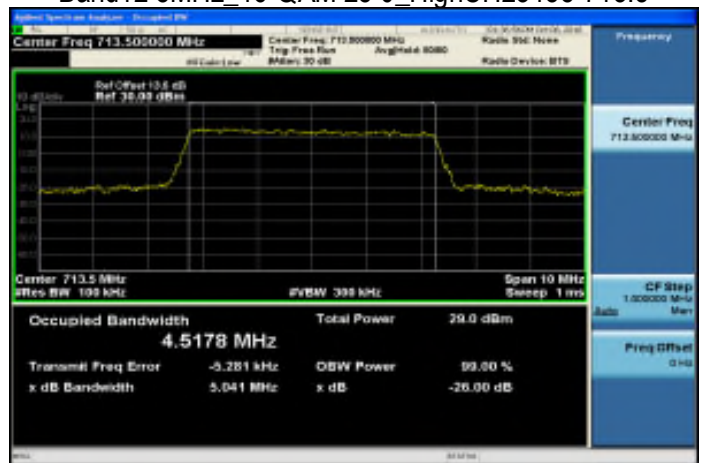
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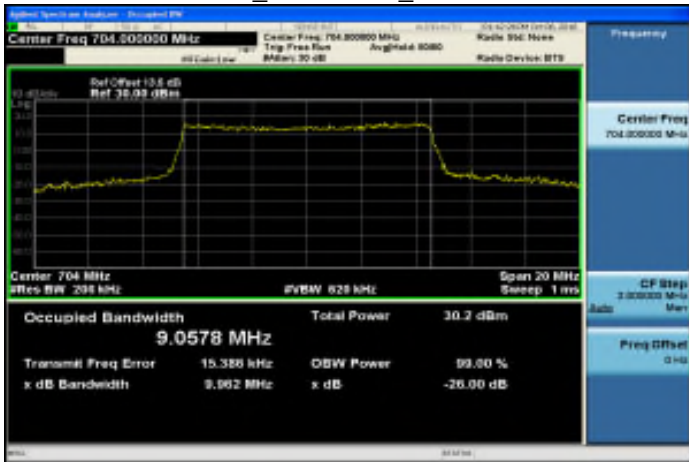
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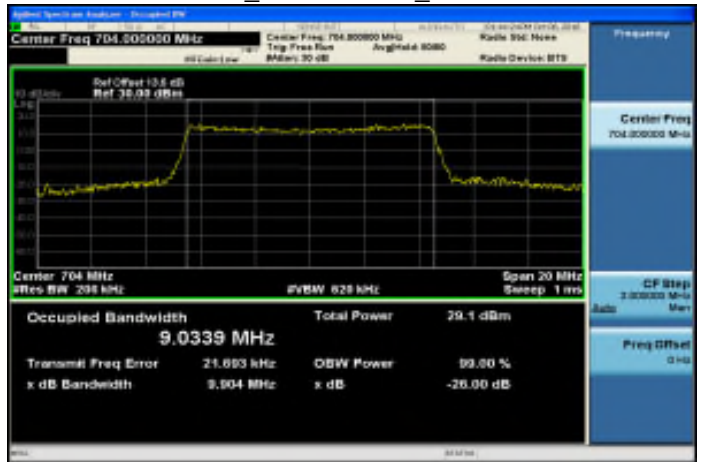
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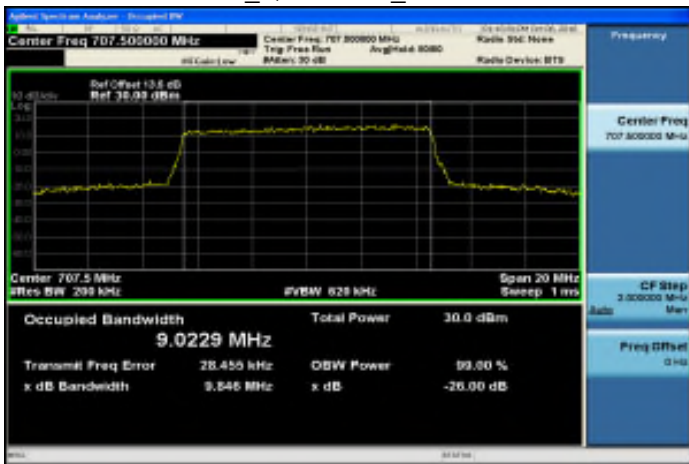
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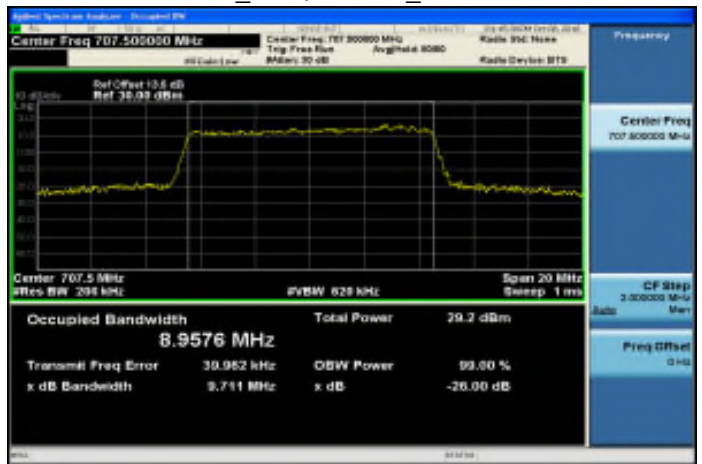
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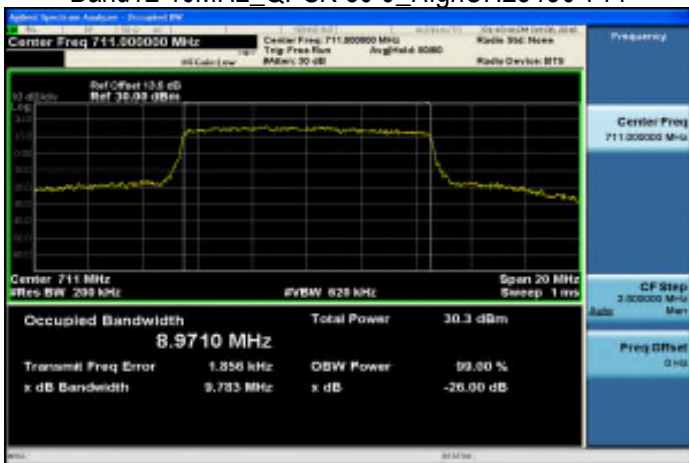
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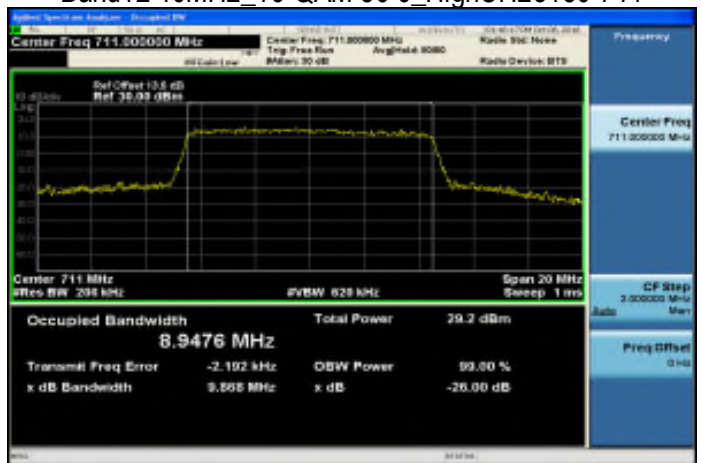
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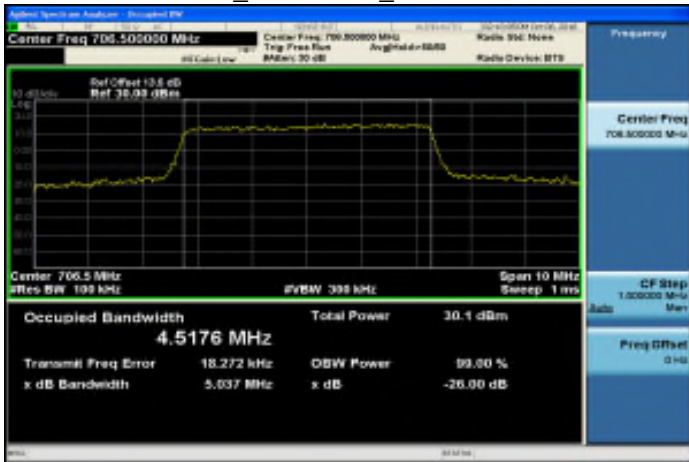
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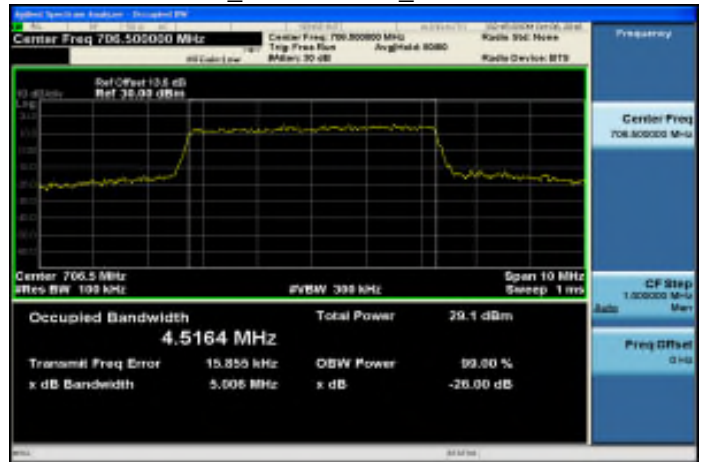
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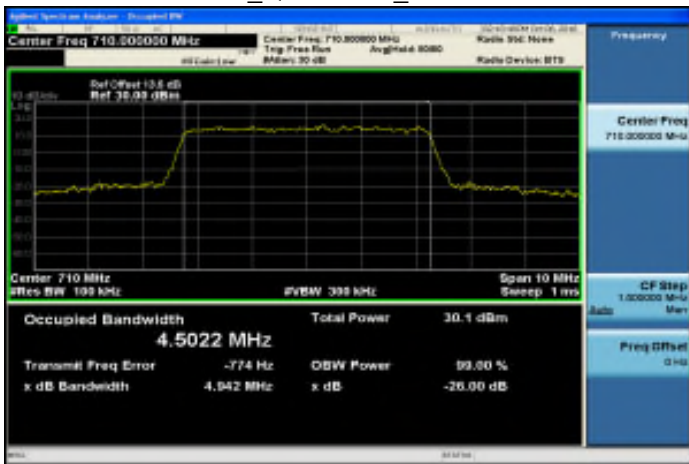
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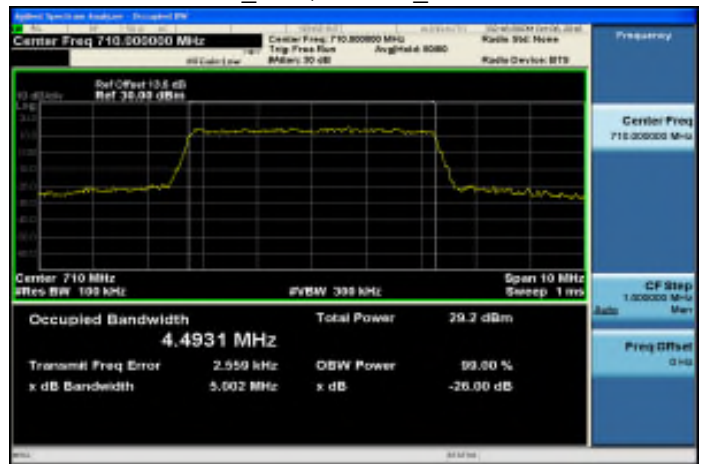
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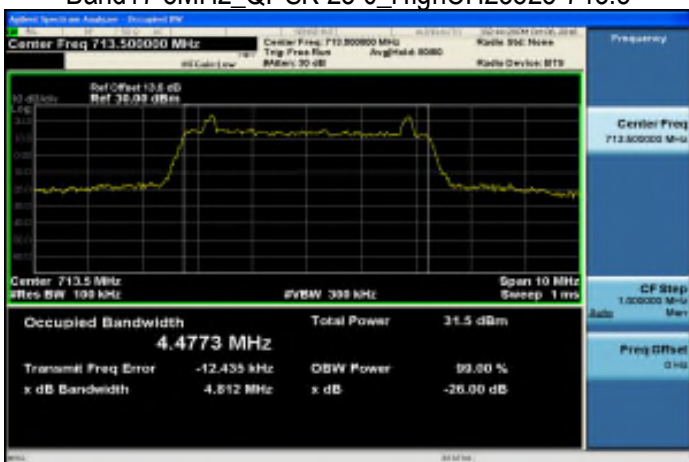
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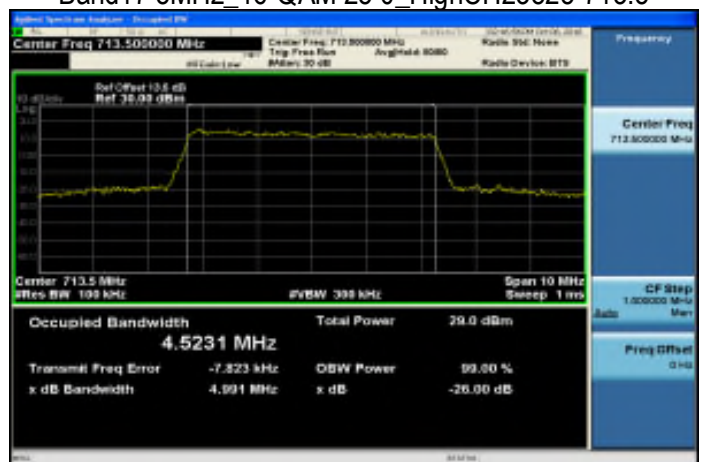
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Band17 5MHz\_QPSK 25 0\_HighCH23825-713.5



Band17 5MHz\_16-QAM 25 0\_HighCH23825-713.5



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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(g)(h), the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than  $43 + 10 \log$  (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm).

§27.53 (m) (4) shall not be less than  $55 + 10 \log$ (mean output power in watt) dBc below the mean power output outside a license's frequency block (-25dBm).

FCC §27.53(c) (2) (4)

(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;

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.

FCC §27.53(h)

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.

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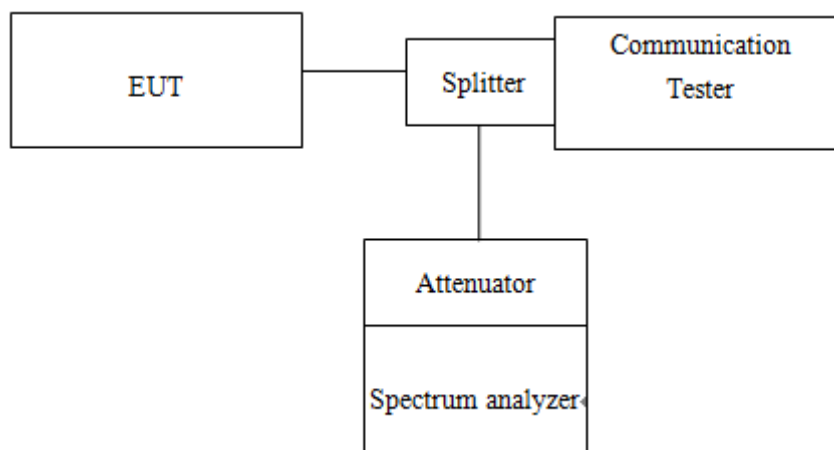
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FCC §27.53(m) (4) (6)

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 § 27.53(m)(6). In addition, the attenuation factor shall not be less that  $43 + 10 \log (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log (P)$  dB at or below 2490.5 MHz.

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.

9.2. Test SET-UP



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### 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.
Power Meter	Anritsu	ML2495A	1005007	12/09/2015	12/08/2016
Power Sensor	Anritsu	MA2411B	917032	12/09/2015	12/08/2016
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
Coaxial Cable	HU-BER+SUHNER	SUCOFLEX 102	23670/2	01/02/2016	01/01/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017
Splitter	Agilent	11636B	N/A	01/02/2016	01/01/2017
DC Power Supply	Agilent	E3640A	MY52410006	11/05/2015	11/04/2016
Temperature Chamber	TERCHY	MHG-120LF	911009	05/17/2016	05/16/2017
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2016	02/10/2017
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	09/25/2015	09/24/2016
Radio Communication Analyzer	Anritsu	MT8820C	6201465317	12/10/2015	12/09/2016

#### 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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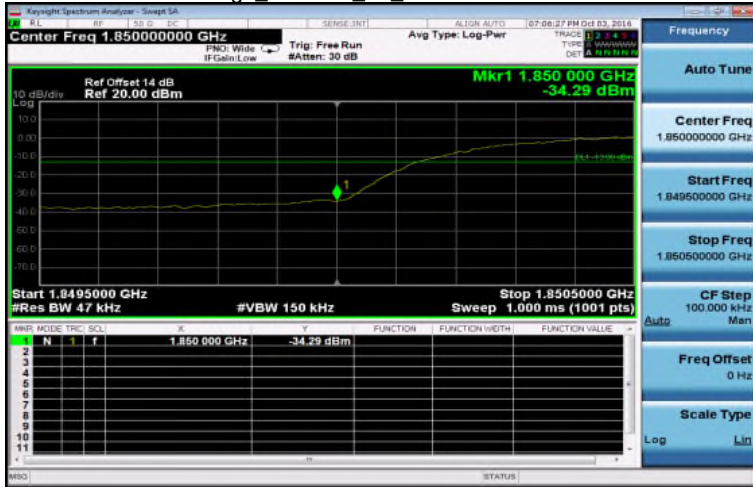
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Band Edge\_WCDMA\_B2\_LowCH9262-1852.4



Band Edge\_HSDPA\_B2\_HighCH9538-1907.6



Band Edge\_WCDMA\_B2\_HighCH9538-1907.6



Band Edge\_HSUPA\_B2\_LowCH9262-1852.4



Band Edge\_HSDPA\_B2\_LowCH9262-1852.4



Band Edge\_HSUPA\_B2\_HighCH9538-1907.6



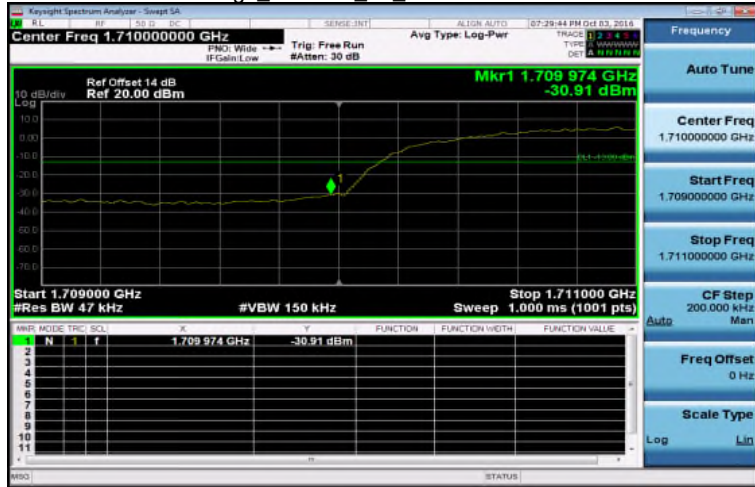
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Band Edge\_HSDPA\_B4\_HighCH1513-1752.6



Band Edge\_WCDMA\_B4\_HighCH1513-1752.6



Band Edge\_HSPA\_B4\_LowCH1312-1712.4



Band Edge\_HSDPA\_B4\_LowCH1312-1712.4



Band Edge\_HSPA\_B4\_HighCH1513-1752.6

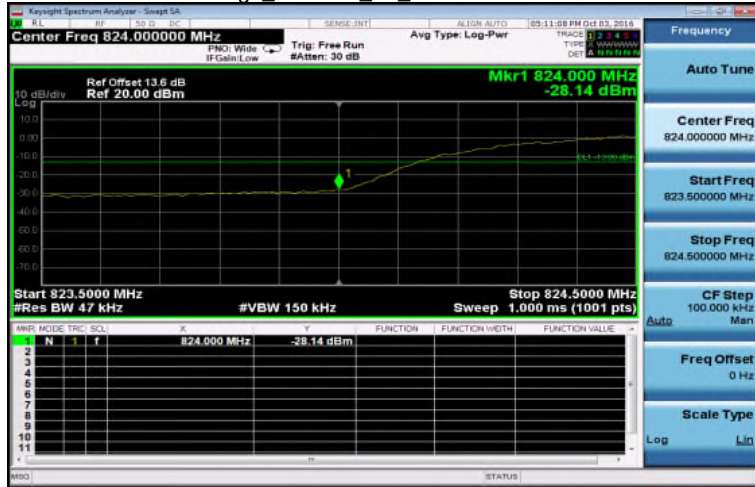


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Band Edge\_WCDMA\_B5\_LowCH4132-826.4



Band Edge\_HSDPA\_B5\_HighCH4233-846.6



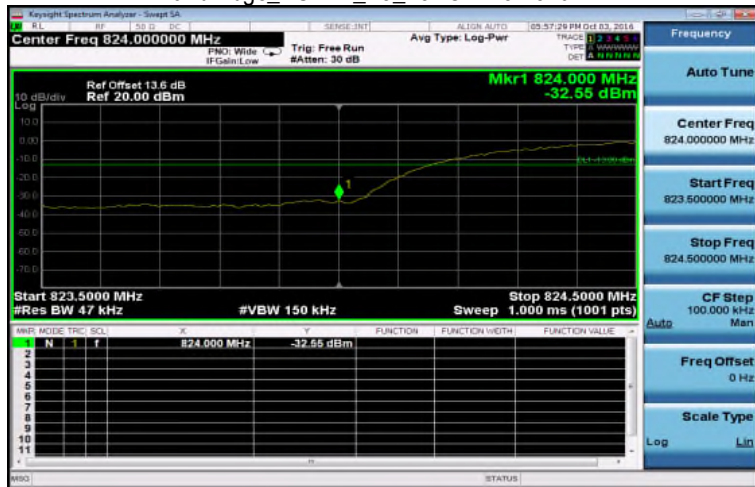
Band Edge\_WCDMA\_B5\_HighCH4233-846.6



Band Edge\_HSPA\_B5\_LowCH4132-826.4



Band Edge\_HSDPA\_B5\_LowCH4132-826.4



Band Edge\_HSPA\_B5\_HighCH4233-846.6



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Band Edge\_Band2 1.4MHz\_QPSK 1 0\_LowCH18607-1850.7



Band Edge\_Band2 1.4MHz\_QPSK 6 0\_HighCH19193-1909.3



Band Edge\_Band2 1.4MHz\_QPSK 1 5\_HighCH19193-1909.3



Band Edge\_Band2 3MHz\_QPSK 1 0\_LowCH18615-1851.5



Band Edge\_Band2 1.4MHz\_QPSK 6 0\_LowCH18607-1850.7



Band Edge\_Band2 3MHz\_QPSK 1 14\_HighCH19185-1908.5



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Band Edge\_Band2 3MHz\_QPSK 15 0\_LowCH18615-1851.5



Band Edge\_Band2 5MHz\_QPSK 1 24\_HighCH19175-1907.5



Band Edge\_Band2 3MHz\_QPSK 15 0\_HighCH19185-1908.5



Band Edge\_Band2 5MHz\_QPSK 25 0\_LowCH18625-1852.5



Band Edge\_Band2 5MHz\_QPSK 1 0\_LowCH18625-1852.5



Band Edge\_Band2 5MHz\_QPSK 25 0\_HighCH19175-1907.5



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Band Edge\_Band2 10MHz\_QPSK 1 0\_LowCH18650-1855



Band Edge\_Band2 10MHz\_QPSK 50 0\_HighCH19150-1905



Band Edge\_Band2 10MHz\_QPSK 1 49\_HighCH19150-1905



Band Edge\_Band2 15MHz\_QPSK 1 0\_LowCH18675-1857.5



Band Edge\_Band2 10MHz\_QPSK 50 0\_LowCH18650-1855



Band Edge\_Band2 15MHz\_QPSK 1 74\_HighCH19125-1902.5



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Band Edge\_Band2 15MHz\_QPSK 75 0\_LowCH18675-1857.5



Band Edge\_Band2 20MHz\_QPSK 1 99\_HighCH19100-1900



Band Edge\_Band2 15MHz\_QPSK 75 0\_HighCH19125-1902.5



Band Edge\_Band2 20MHz\_QPSK 100 0\_LowCH18700-1860



Band Edge\_Band2 20MHz\_QPSK 1 0\_LowCH18700-1860



Band Edge\_Band2 20MHz\_QPSK 100 0\_HighCH19100-1900



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Band Edge\_Band4 1.4MHz\_QPSK 6 0\_HighCH20393-1754.3



Band Edge\_Band4 1.4MHz\_QPSK 1 5\_HighCH20393-1754.3



Band Edge\_Band4 3MHz\_QPSK 1 0\_LowCH19965-1711.5



Band Edge\_Band4 1.4MHz\_QPSK 6 0\_LowCH19957-1710.7



Band Edge\_Band4 3MHz\_QPSK 1 14\_HighCH20385-1753.5



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Band Edge\_Band4 3MHz\_QPSK 15 0\_LowCH19965-1711.5



Band Edge\_Band4 5MHz\_QPSK 1 24\_HighCH20375-1752.5



Band Edge\_Band4 3MHz\_QPSK 15 0\_HighCH20385-1753.5



Band Edge\_Band4 5MHz\_QPSK 25 0\_LowCH19975-1712.5



Band Edge\_Band4 5MHz\_QPSK 1 0\_LowCH19975-1712.5



Band Edge\_Band4 5MHz\_QPSK 25 0\_HighCH20375-1752.5



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Band Edge\_Band4 10MHz\_QPSK 50 0\_HighCH20350-1750



Band Edge\_Band4 10MHz\_QPSK 1 49\_HighCH20350-1750



Band Edge\_Band4 15MHz\_QPSK 1 0\_LowCH20025-1717.5



Band Edge\_Band4 10MHz\_QPSK 50 0\_LowCH20000-1715



Band Edge\_Band4 15MHz\_QPSK 1 74\_HighCH20325-1747.5



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Band Edge\_Band4 15MHz\_QPSK 75 0\_LowCH20025-1717.5



Band Edge\_Band4 20MHz\_QPSK 1 99\_HighCH20300-1745



Band Edge\_Band4 15MHz\_QPSK 75 0\_HighCH20325-1747.5



Band Edge\_Band4 20MHz\_QPSK 100 0\_LowCH20050-1720



Band Edge\_Band4 20MHz\_QPSK 1 0\_LowCH20050-1720



Band Edge\_Band4 20MHz\_QPSK 100 0\_HighCH20300-1745



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Band Edge\_Band5 1.4MHz\_QPSK 1 0\_LowCH20407-824.7



Band Edge\_Band5 1.4MHz\_QPSK 6 0\_HighCH20643-848.3



Band Edge\_Band5 1.4MHz\_QPSK 1 5\_HighCH20643-848.3



Band Edge\_Band5 3MHz\_QPSK 1 0\_LowCH20415-825.5



Band Edge\_Band5 1.4MHz\_QPSK 6 0\_LowCH20407-824.7



Band Edge\_Band5 3MHz\_QPSK 1 14\_HighCH20635-847.5



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Band Edge\_Band5 3MHz\_QPSK 15 0\_LowCH20415-825.5



Band Edge\_Band5 5MHz\_QPSK 1 24\_HighCH20625-846.5



Band Edge\_Band5 3MHz\_QPSK 15 0\_HighCH20635-847.5



Band Edge\_Band5 5MHz\_QPSK 25 0\_LowCH20425-826.5



Band Edge\_Band5 5MHz\_QPSK 1 0\_LowCH20425-826.5



Band Edge\_Band5 5MHz\_QPSK 25 0\_HighCH20625-846.5



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Band Edge\_Band5 10MHz\_QPSK 1 0\_LowCH20450-829



Band Edge\_Band5 10MHz\_QPSK 50 0\_HighCH20600-844



Band Edge\_Band5 10MHz\_QPSK 1 49\_HighCH20600-844



Band Edge\_Band7 5MHz\_QPSK 1 0\_LowCH20775-2502.5



Band Edge\_Band5 10MHz\_QPSK 50 0\_LowCH20450-829



Band Edge\_Band7 5MHz\_QPSK 1 24\_HighCH21425-2567.5



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Band Edge\_Band7 5MHz\_QPSK 25 0\_LowCH20775-2502.5



Band Edge\_Band7 10MHz\_QPSK 1 49\_HighCH21400-2565



Band Edge\_Band7 5MHz\_QPSK 25 0\_HighCH21425-2567.5



Band Edge\_Band7 10MHz\_QPSK 50 0\_LowCH20800-2505



Band Edge\_Band7 10MHz\_QPSK 1 0\_LowCH20800-2505



Band Edge\_Band7 10MHz\_QPSK 50 0\_HighCH21400-2565



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Band Edge\_Band7 15MHz\_QPSK 1 0\_LowCH20825-2507.5



Band Edge\_Band7 15MHz\_QPSK 75 0\_HighCH21375-2562.5



Band Edge\_Band7 15MHz\_QPSK 1 74\_HighCH21375-2562.5



Band Edge\_Band7 20MHz\_QPSK 1 0\_LowCH20850-2510



Band Edge\_Band7 15MHz\_QPSK 75 0\_LowCH20825-2507.5



Band Edge\_Band7 20MHz\_QPSK 1 99\_HighCH21350-2560



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Band Edge\_Band7 20MHz\_QPSK 100 0\_LowCH20850-2510



Band Edge\_Band12 1.4MHz\_QPSK 1 5\_HighCH23173-715.3



Band Edge\_Band7 20MHz\_QPSK 100 0\_HighCH21350-2560



Band Edge\_Band12 1.4MHz\_QPSK 6 0\_LowCH23017-699.7



Band Edge\_Band12 1.4MHz\_QPSK 1 0\_LowCH23017-699.7



Band Edge\_Band12 1.4MHz\_QPSK 6 0\_HighCH23173-715.3



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