

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name: Mobile Tablet
Brand Name: DT Research Inc.
Model No.: DT395BV, Atlas 91i
Model Difference: Different Exterior Color:
DT395BV-Black, Atlas 91i-Red
FCC ID: YE3800E
Report No.: E2/2015/60045
Issue Date: Jul. 20, 2015
FCC Rule Part: 2, 22H & 24E & 27C & L02
Prepared for: DT Research Inc.
6F, NO.1, Ning-Po E. Street, Taipei 100, Taiwan
Prepared by: SGS Taiwan Ltd.
Electronics & Communication Laboratory
No.2, Keji 1st Rd., Guishan District, Taoyuan City,
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VERIFICATION OF COMPLIANCE

Applicant: DT Research Inc.
6F, NO.1, Ning-Po E. Street, Taipei 100, Taiwan

Product Name: Mobile Tablet

Brand Name: DT Research Inc.

Model No.: DT395BV, Atlas 91i

Model Difference: Different Exterior Color: DT395BV-Black, Atlas 91i-Red

FCC ID: YE3800E

File Number: E2/2015/60045

Date of test: Jun. 23, 2015 ~ Jul. 13, 2015

Date of EUT Received: Jun. 23, 2015

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-C-2004 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:

Jazz Huang

Date:

Jul. 20, 2015

Jazz Huang / Engineer

Prepared By:

Violetta Tang

Date:

Jul. 20, 2015

Violetta Tang / Clerk

Approved By:

Jim Chang

Date:

Jul. 20, 2015

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
E2/2015/60045	Rev.00	Initial creation of document	Jul. 20, 2015

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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

Product Name:	Mobile Tablet	
Brand Name:	DT Research Inc.	
Model No.:	DT395BV, Atlas 91i	
Model Difference:	Different Exterior Color: DT395BV-Black, Atlas 91i-Red	
Product SW/HW version:	WIN embedded 8.1 industry pro. / MB version 2.1	
Radio SW/HW version:	SWI9X15C_05.05.16.03 / 005.013_014	
Test SW Version:	N/A	
RF power setting in TEST SW:	N/A	
Power Supply:	7.4Vdc from Rechargeable Li-ion Battery or 19V from AC/DC Adapter	
	Battery:	Model No.:ACC-006-18, Supplier: Formosa Electronic Industries INC
	Adapter:	Model No.:A11-065N1A, Supplier: Chicony
IMEI:	359225050969427	

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CDMA / LTE:

Cellular Phone Standards Frequency Range and Power	Operating Frequency		Rated Power
	CDMA/EVDO BC0	824.7 MHz– 848.31MHz	24dBm
	CDMA/EVDO BC1	1851.25MHz-1908.75MHz	24dBm
	LTE-Band 4 (Bandwidth 1.4MHz)	1710.7MHz– 1754.3MHz	23dBm
	LTE-Band 4 (Bandwidth 3MHz)	1711.5MHz – 1753.5MHz	23dBm
	LTE-Band 4 (Bandwidth 5MHz)	1712.5MHz – 1752.5MHz	23dBm
	LTE-Band 4 (Bandwidth 10MHz)	1715.0MHz – 1750.0MHz	23dBm
	LTE-Band 4 (Bandwidth 15MHz)	1717.5MHz – 1747.5MHz	23dBm
	LTE-Band 4 (Bandwidth 20MHz)	1720.0MHz – 1745.0MHz	23dBm
	LTE-Band 13 (Bandwidth 5MHz)	779.5MHz – 784.5MHz	23dBm
	LTE-Band 13 (Bandwidth 10MHz)	782.0MHz – 782.0MHz	23dBm
Type of Emission:	CDMA BC0	1M28F9W	
	EVDO BC0	1M27F9W	
	CDMA BC1	1M28F9W	
	EVDO BC1	1M28F9W	
	LTE-Band 4 (Bandwidth 1.4MHz) QPSK	1M10G7D	
	LTE-Band 4 (Bandwidth 1.4MHz) 16QAM	1M10D7W	
	LTE-Band 4 (Bandwidth 3MHz) QPSK	2M71G7D	
	LTE-Band 4 (Bandwidth 3MHz) 16QAM	2M73D7W	
	LTE-Band 4 (Bandwidth 5MHz) QPSK	4M53G7D	
	LTE-Band 4 (Bandwidth 5MHz) 16QAM	4M51D7W	
	LTE-Band 4 (Bandwidth 10MHz) QPSK	8M99G7D	
	LTE-Band 4 (Bandwidth 10MHz) 16QAM	8M96D7W	
	LTE-Band 4 (Bandwidth 15MHz) QPSK	13M5G7D	
	LTE-Band 4 (Bandwidth 15MHz) 16QAM	13M5D7W	
	LTE-Band 4 (Bandwidth 20MHz) QPSK	18M0G7D	
	LTE-Band 4 (Bandwidth 20MHz) 16QAM	18M0D7W	
	LTE-Band 13 (Bandwidth 5MHz) QPSK	4M51G7D	
	LTE-Band 13 (Bandwidth 5MHz) 16QAM	4M51D7W	
	LTE-Band 13 (Bandwidth 10MHz) QPSK	8M89G7D	
	LTE-Band 13 (Bandwidth 10MHz) 16QAM	8M88D7W	

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Max ERP/EIRP measurement result:

	dBm		W
CDMA 2000 BC0	22.24	ERP	0.167
EVDO 2000 BC0	23.11	ERP	0.205
CDMA 2000 BC1	24.89	EIRP	0.308
EVDO 2000 BC1	26.96	EIRP	0.497
LTE Band 4/1.4MMz /QPSK RB 1 Offset 5	28.91	EIRP	0.778
LTE Band 4/1.4MMz /16QAM RB 1 Offset 5	28.70	EIRP	0.741
LTE Band 4/3MMz /QPSK RB 1 Offset 14	28.67	EIRP	0.736
LTE Band 4/3MMz /16QAM RB 1 Offset 14	28.80	EIRP	0.759
LTE Band 4/5MMz /QPSK RB 1 Offset 24	28.69	EIRP	0.740
LTE Band 4/5MMz /16QAM RB 1 Offset 24	28.76	EIRP	0.752
LTE Band 4/10MMz /QPSK RB 1 Offset 49	28.42	EIRP	0.695
LTE Band 4/10MMz /16QAM RB 1 Offset 49	29.20	EIRP	0.832
LTE Band 4/15MMz /QPSK RB 1 Offset 0	28.57	EIRP	0.719
LTE Band 4/15MMz /16QAM RB 1 Offset 0	28.93	EIRP	0.782
LTE Band 4/20MMz /QPSK RB 1 Offset 99	28.26	EIRP	0.670
LTE Band 4/20MMz /16QAM RB 1 Offset 99	29.05	EIRP	0.804
LTE Band 13/5MMz /QPSK RB 1 Offset 24	24.81	ERP	0.303
LTE Band 13/5MMz /16QAM RB 1 Offset 24	25.18	ERP	0.330
LTE Band 13/10MMz /QPSK RB 1 Offset 49	24.49	ERP	0.281
LTE Band 13/10MMz /16QAM RB 1 Offset	25.21	ERP	0.332

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1.2. Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is Mobile Tablet supporting, CDMA, LTE, Wi-Fi 802.11abgn & ac, Bluetooth features, and below is details of information.

Product Feature	
Product Name:	Mobile Tablet
Brand Name:	DT Research Inc.
Model No.:	DT395BV, Atlas 91i
Model Difference:	Different Exterior Color: DT395BV-Black, Atlas 91i-Red
FCC ID:	YE3800E
CDMA2000 / EVDO	BC0/BC1
LTE	B4/B13
Wi-Fi Specification	802.11a/b/g/n & ac
Bluetooth Version	V4.0 dual mode

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 603C-C-2004

KDB971168 D01 Power Meas license Digital System v02r01

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:

1. All test items have been performed and record as per the above standards.
2. The composite system is compliance with FCC Subpart B is authorized under the certification procedure.

1.4. Test Facility

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

FCC Registration Numbers are: 628985

Canada Registration Number: 4620A-5..

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 and attenuator.

Low Band: Offset = RF cable loss (dB) + attenuation factor (dB) = 14.3(dB)

High Band: Offset = RF cable loss (dB) + attenuation factor (dB) = 13.8(dB)

2.5. Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
EVDO BC0	7.4V	1936
CDMA BC1	7.4V	1935
LTE Band 4	7.4V	1863
LTE Band 13	7.4V	1854

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2.6. Configuration of Tested System

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

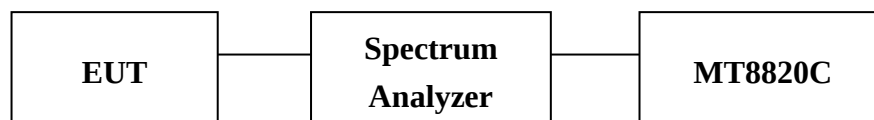
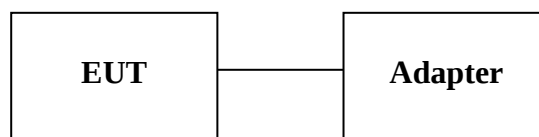


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)



Remote Side



Table 2-1 Equipment Used in

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Radio Communication Analyzer	Anritsu	MT8820C	6201107337	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(d)(4) §27.50(c)(10)	ERP/ EIRP measurement	Compliant
§2.1049(h)	Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.50(c)(5) §27.53(h)	Out of Band Emissions at Antenna Terminals and Band Edge	Compliant
§2.1053 §22.917(a) §24.238(a) §27.50(c)(5) §27.53(g) §27.53(h) §27.53(f)	Field Strength of Spurious Radiation	Compliant
§24.232(d) §27.50(i) (B)	Peak to Average Ratio	Compliant
§27.53(f)	Spurious emission in 1559 -1610MHz Band	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54	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, XYZ 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
CDMA / EVDO BC 0	E2-plan	E2-plan
CDMA / EVDO BC 1	E1-plan	E1-plan
LTE Band 4	E1-plan	E1-plan
LTE Band 13	E2-plan	E2-plan

CDMA/EVDO MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
ERP	1013 to 777	1013, 384, 777	CDMA/EVDO BC0
EIRP	25 to 1175	25, 600, 1175	CDMA/EVDO BC1
FREQUENCY STABILITY	1013 to 777 25 to 1175	1013, 384, 777 25, 600, 1175	CDMA BC0 CDMA BC1
OCCUPIED BANDWIDTH	1013 to 777 25 to 1175	1013, 384, 777 25, 600, 1175	CDMA/EVDO BC0 CDMA/EVDO BC1
PEAK TO AVERAGE RATIO	1013 to 777 25 to 1175	1013, 384, 777 25, 600, 1175	CDMA/EVDO BC0 CDMA/EVDO BC1
BAND EDGE	1013 to 777 25 to 1175	1013, 384, 777 25, 600, 1175	CDMA BC0 CDMA BC1
CONDUCTED EMISSION	1013 to 777 25 to 1175	1013, 384, 777 25, 600, 1175	CDMA BC0 CDMA BC1
EMISSION MASK	1013 to 777 25 to 1175	1013, 384, 777 25, 600, 1175	CDMA BC0 CDMA BC1
RADIATED EMISSION	1013 to 777 25 to 1175	1013, 384, 777 25, 600, 1175	EVDO BC0 EVDO BC1

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LTE Band 4 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	1957 to 19393	1957, 20175, 19393	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offset
	1965 to 22385	1965, 20175, 22385	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offset
	1975 to 20375	1975, 20175, 20375	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offset
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offset
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offset
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offset
FREQUENCY STABILITY	20000 to 20350	20175	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	1957 to 19393	1957, 20175, 19393	1.4MHz	QPSK, 16QAM	Full RB
	1965 to 22385	1965, 20175, 22385	3MHz	QPSK, 16QAM	Full RB
	1975 to 20375	1975, 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	1957 to 19393	1957, 20175, 19393	1.4MHz	16QAM	Full RB
	1965 to 22385	1965, 20175, 22385	3MHz	16QAM	Full RB
	1975 to 20375	1975, 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	1957 to 19393	1957, 19393	1.4MHz	QPSK,	1 RB/ 0,5 RB Offset Full RB
	1965 to 22385	1965, 22385	3MHz	QPSK,	1 RB/ 0,14 RB Offset Full RB
	1975 to 20375	1975, 20375	5MHz	QPSK,	1 RB/ 0,24 RB Offset Full RB
	20000 to 20350	20000, 20350	10MHz	QPSK,	1 RB/ 0,49 RB Offset Full RB
	20025 to 20325	20025, 20325	15MHz	QPSK,	1 RB/ 0,74 RB Offset Full RB
	20050 to 20300	20050, 20300	20MHz	QPSK,	1 RB/ 0,99 RB Offset Full RB
CONDUCTED EMISSION	1957 to 19393	1957, 20175, 19393	1.4MHz	QPSK,	1 RB, 0 RB Offset
	1965 to 22385	1965, 20175, 22385	3MHz	QPSK,	1 RB, 0 RB Offset
	1975 to 20375	1975, 20175, 20375	5MHz	QPSK,	1 RB, 0 RB Offset
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK,	1 RB, 0 RB Offset
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK,	1 RB, 0 RB Offset
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK,	1 RB, 0 RB Offset
RADIATED EMISSION	20000 to 20350	20000, 20175, 20350	10MHz	16QAM,	1 RB/ 49 RB Offset

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LTE Band 13 MODE

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

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5. MEASUREMENT UNCERTAINTY

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

Radiated Spurious Emission:

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

Measurement uncertainty (Polarization : Horizontal)	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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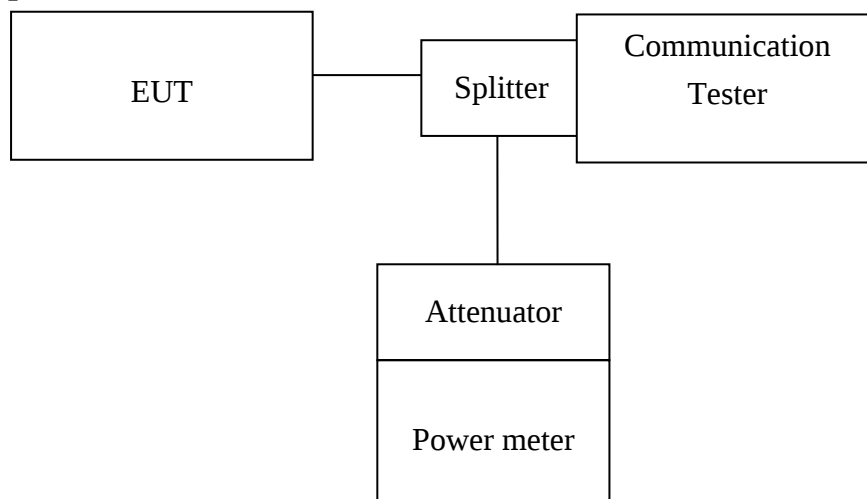
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6. RF CONDUCTED OUTPUT POWER MEASUREMENT

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, (WCDMA/HSPA) was used for EUT and Base station setting. RMC 12.2kps is used for this testing, and KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results

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6.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	10/15/2014	10/14/2015
Communication Tester	Anritsu	MT8820C	6201107337	05/27/2015	05/26/2016
Coaxial Cable 30cm	WOKEN	00100A1F1A1 95C	RF01	12/19/2014	12/18/2015
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/18/2015	06/17/2016
DC Block	PASTERNACK	PE8210	RF29	12/19/2014	12/18/2015
Splitter	RF-LAMBAD	RFLT2W1G18 G	RF35	12/19/2014	12/18/2015
Attenuator	WOKEN	218FS-10	RF23	12/19/2014	12/18/2015
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2015	05/03/2016

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6.5. Measurement Result

RF Conducted Output Power

CDMA2000/EVDO Result:

EUT Mode	Frequency (MHz)	CH	CDMA	EVDO
			Avg. Power (dBm)	Avg. Power (dBm)
BC0	824.7	1013	23.59	23.82
	836.52	384	23.94	24.17
	848.31	777	23.42	23.59
BC1	1851.25	25	24.36	24.48
	1880	600	23.64	23.89
	1908.75	1175	24.17	24.35

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LTE Result:

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) 19957	Channel (Mid) 20175	Channel (High) 20393	Channel (Low) 19957	Channel (Mid) 20175	Channel (High) 20393
1.4	1	0	22.99	23.18	22.87	22	21.94	21.72
	1	5	22.67	23.12	22.88	22.04	22.09	21.78
	3	2	22.98	22.84	22.88	21.84	21.93	21.95
	6	0	22.02	22.25	21.87	21.05	20.91	20.91

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 19965	Channel (Mid) 20175	Channel (High) 20385	Channel (Low) 19965	Channel (Mid) 20175	Channel (High) 20385
3	1	0	23.06	22.75	23.11	22.31	21.87	22.28
	1	14	22.82	23.22	22.8	21.66	22.21	21.86
	8	4	21.95	22.01	22.01	20.99	20.98	20.52
	15	0	21.82	22.39	21.91	20.77	20.93	21.02

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 19975	Channel (Mid) 20175	Channel (High) 20375	Channel (Low) 19975	Channel (Mid) 20175	Channel (High) 20375
5	1	0	23.12	22.86	23.02	21.98	21.79	22.1
	1	24	22.65	23.01	22.84	21.49	22.16	21.77
	12	6	21.82	22.17	21.99	20.91	21.09	21.08
	25	0	21.59	21.95	21.86	20.62	21.03	20.91

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LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20000	Channel (Mid) 20175	Channel (High) 20350	Channel (Low) 20000	Channel (Mid) 20175	Channel (High) 20350
10	1	0	23.58	23.33	23.79	22.91	22.91	22.72
	1	49	23.39	23.88	23.45	22.22	22.98	22.17
	25	12	22.3	23	22.53	21.23	22	21.65
	50	0	22.17	22.45	22.49	21.15	21.55	21.48

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20025	Channel (Mid) 20175	Channel (High) 20325	Channel (Low) 20025	Channel (Mid) 20175	Channel (High) 20325
15	1	0	22.97	23.1	23.38	22.25	22	22.03
	1	74	22.81	23.42	22.96	22.04	21.88	22.24
	36	19	21.35	21.92	21.95	20.43	20.95	20.93
	75	0	21.44	21.92	21.81	20.38	20.84	20.77

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20050	Channel (Mid) 20175	Channel (High) 20300	Channel (Low) 20050	Channel (Mid) 20175	Channel (High) 20300
20	1	0	23.61	23.57	23.72	22.88	22.78	22.82
	1	99	24	23.75	23.58	23	22.88	22.58
	50	25	22.02	22.5	22.45	20.99	21.48	21.38
	100	0	22.18	22.58	22.43	20.99	21.5	21.32

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LTE Band 13

LTE Band 13_Uplink frequency band : 777 to 787 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 23205	Channel (Mid) 23230	Channel (High) 23255	Channel (Low) 23205	Channel (Mid) 23230	Channel (High) 23255
5	1	0	22.62	22.29	22.8	21.85	21.4	22.06
	1	24	22.82	22.65	22.29	21.9	21.97	21.62
	12	6	21.67	21.8	21.67	20.77	20.82	20.69
	25	0	21.39	21.62	21.58	20.63	20.57	20.55

LTE Band 13_Uplink frequency band : 777 to 787 MHz				
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)	
			QPSK	16QAM
			Channel 23230	Channel 23230
10	1	0	22.4	22.42
	1	49	22.82	22.06
	25	12	22.12	21.13
	50	0	22.06	21.06

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7. EFFECTIVE RADIATED POWER AND EQUIVALENT ISOTROPIC RADIATED POWER MEASUREMENT

7.1. Standard Applicable

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

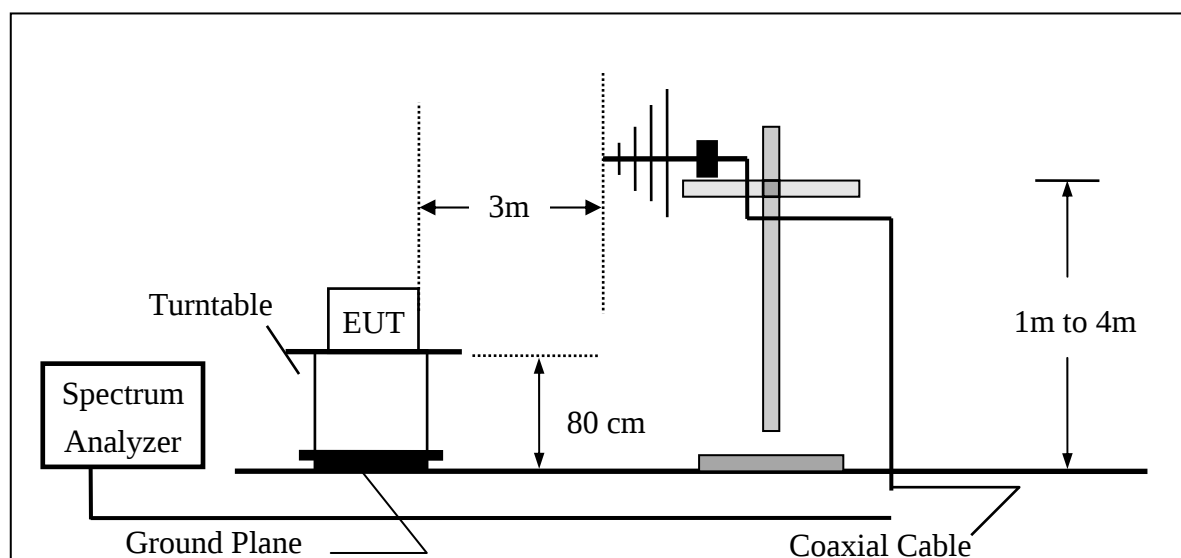
FCC 24.232(b) Mobile station is limited to 2W.

FCC 27, 50(c)(10) Portable stations (hand-held devices) are limited to 3 watts ERP.

FCC 27, 50(d)(4) Portable stations are limited to 1W

7.2. Test SET-UP

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



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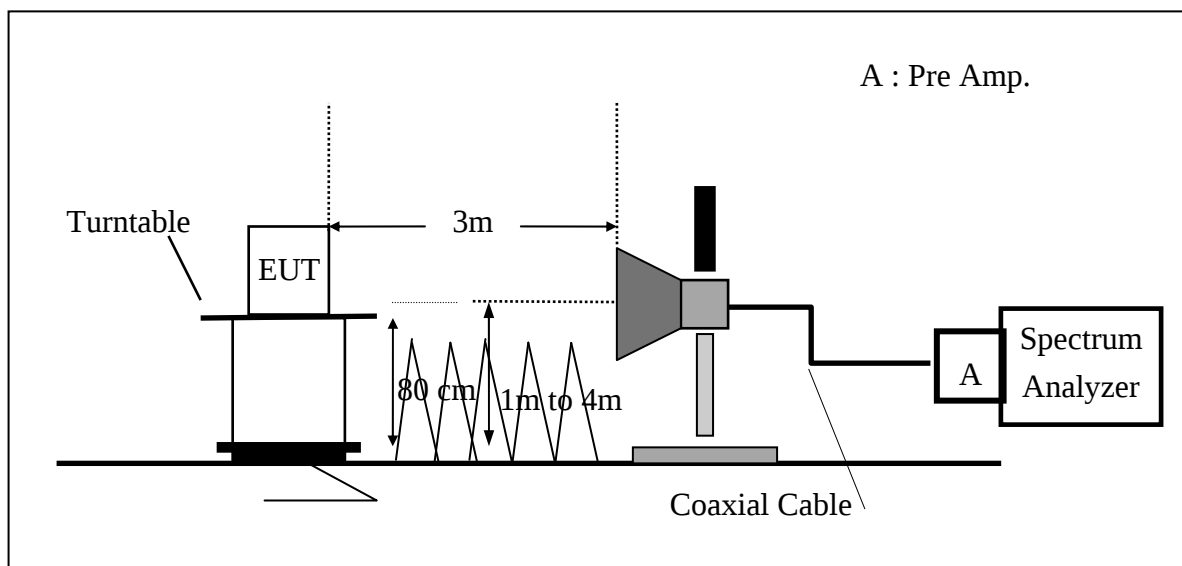
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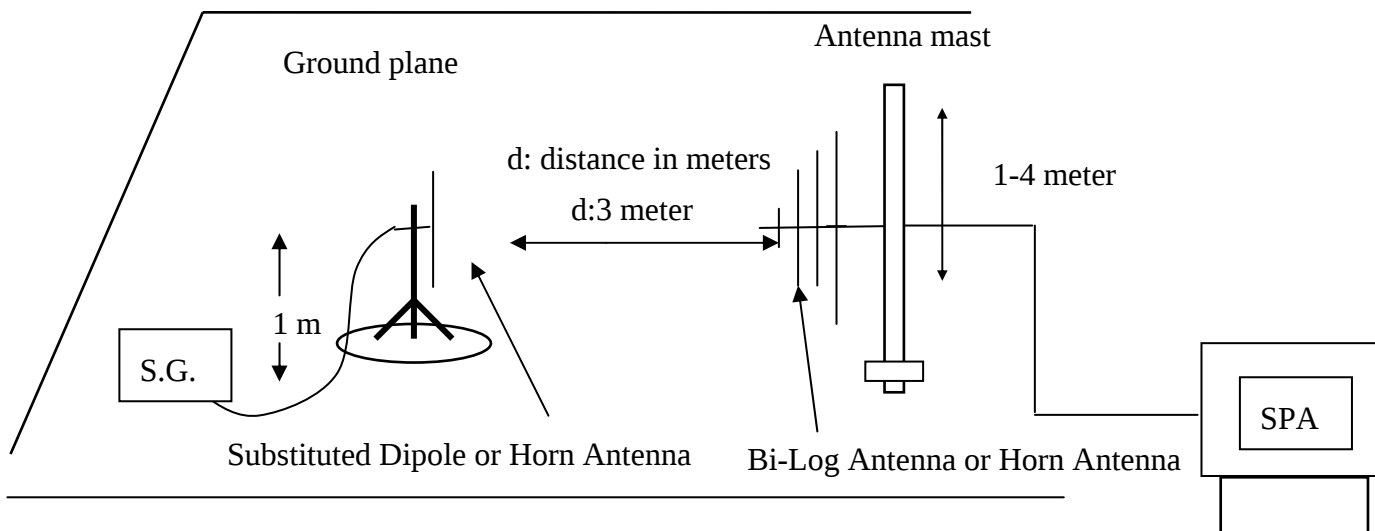
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(B) Radiated Power Test Set-UP Frequency Over 1 GHz



(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 $VBW > = 3 \times RBW$.
 - (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 $RBW \approx 1 \sim 5\%$ of the span, not to exceed 1 MHz
Set $VBW = 3 \times RBW$;
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 = $601 \times 10^{-3} = 6s$).

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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 $10 \cdot \log(TBW/RBW)$, where TBW is the transmission of UE exceeding the maximum BW UE can extend, and RBW is the resolution BW in spectrum.

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7.4. Measurement Equipment Used

SGS 966 Chamber No.C					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESU 40	100363	04/09/2015	04/08/2016
Broadband Antenna	TESEQ	CBL 6112D	35240	12/05/2014	12/04/2015
Broadband Antenna	TESEQ	CBL 6112D	35243	11/14/2014	11/13/2015
Horn Antenna	ETS-Lindgren	3117	00143272	12/08/2014	12/07/2015
Horn Antenna	ETS-Lindgren	3117	00143280	09/23/2014	09/22/2015
Horn Antenna	ETS-Lindgren	3160-09	00117911	11/13/2014	11/12/2015
Horn Antenna	ETS-Lindgren	3160-09	00117910	11/13/2014	11/12/2015
Pre Amplifier	EMC Instruments	EMC330	980096	12/19/2014	12/18/2015
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/19/2014	12/18/2015
Pre Amplifier	R&S	SCU-18	10204	12/19/2014	12/18/2015
Pre Amplifier	R&S	SCU-26	100780	12/19/2014	12/18/2015
Pre Amplifier	EMC Instruments	EMC184045B	980135	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/19/2014	12/18/2015
Attenuator	WOKEN	218FS-10	RF27	12/19/2014	12/18/2015
Communication Tester	Anritsu	MT8820C	6201107337	05/27/2015	05/26/2016
Site NSA	SGS	966 Chamber C	SAC-C	03/04/2015	03/03/2016
Site VSWR	SGS	966 Chamber C	SAC-C	03/04/2015	03/03/2016
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2015	05/03/2016
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

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

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
CDMA BC0	824.7	1013	V	9.97	5.13	-3.5	11.6	38.45
			H	20.61	5.13	-3.5	22.24	38.45
	836.52	384	V	5.7	5.09	-3.39	7.4	38.45
			H	20.01	5.09	-3.39	21.71	38.45
	848.31	777	V	2.24	5.05	-3.47	3.82	38.45
			H	17.59	5.05	-3.47	19.17	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
EVDO BC0	824.7	1013	V	10.22	5.13	-3.5	11.85	38.45
			H	21.48	5.13	-3.5	23.11	38.45
	836.52	384	V	8.83	5.09	-3.39	10.53	38.45
			H	20.45	5.09	-3.39	22.15	38.45
	848.31	777	V	5.35	5.05	-3.47	6.93	38.45
			H	19.03	5.05	-3.47	20.61	38.45

Remark :

- (1) The RBW,VBW of SPA for frequency RBW=300 KHz, VBW=1MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
CDMA BC1	1851.25	25	V	24.64	5.35	-5.35	24.64	33.00
			H	6.77	5.35	-5.35	6.77	33.00
	1880.0	600	V	24.56	5.28	-5.41	24.43	33.00
			H	10.37	5.28	-5.41	10.24	33.00
	1908.75	1175	V	25.07	5.21	-5.39	24.89	33.00
			H	13.27	5.21	-5.39	13.09	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
EVDO BC1	1851.25	25	V	26.12	5.35	-5.35	26.12	33.00
			H	15.57	5.35	-5.35	15.57	33.00
	1880.0	600	V	27.09	5.28	-5.41	26.96	33.00
			H	13.51	5.28	-5.41	13.38	33.00
	1908.75	1175	V	25.87	5.21	-5.39	25.69	33.00
			H	11.08	5.21	-5.39	10.9	33.00

Remark :

- (1) The RBW,VBW of SPA for frequency RBW=300 KHz, VBW=1MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 4 BW: 1.4M QPSK RB: 1,0	1710.7	19957	V	25.92	5.69	-5.17	26.44	30.00
			H	18.77	5.69	-5.17	19.29	30.00
	1732.5	20175	V	28.44	5.64	-5.24	28.84	30.00
			H	19.52	5.64	-5.24	19.92	30.00
	1754.3	20393	V	28.39	5.58	-5.29	28.68	30.00
			H	18.96	5.58	-5.29	19.25	30.00
BAND 4 BW: 1.4M QPSK RB: 1,5	1710.7	19957	V	25.51	5.69	-5.17	26.03	30.00
			H	19.1	5.69	-5.17	19.62	30.00
	1732.5	20175	V	28.2	5.63	-5.25	28.58	30.00
			H	19.79	5.63	-5.25	20.17	30.00
	1754.3	20393	V	28.62	5.58	-5.29	28.91	30.00
			H	19.34	5.58	-5.29	19.63	30.00
BAND 4 BW: 1.4M 16QAM RB: 1,0	1710.7	19957	V	25.37	5.69	-5.17	25.89	30.00
			H	19.37	5.69	-5.17	19.89	30.00
	1732.5	20175	V	28.05	5.64	-5.24	28.45	30.00
			H	19.7	5.64	-5.24	20.1	30.00
	1754.3	20393	V	28.38	5.58	-5.29	28.67	30.00
			H	19.41	5.59	-5.29	19.71	30.00
BAND 4 BW: 1.4M 16QAM RB: 1,5	1710.7	19957	V	25.63	5.69	-5.17	26.15	30.00
			H	19.05	5.69	-5.17	19.57	30.00
	1732.5	20175	V	28.31	5.64	-5.25	28.7	30.00
			H	19.97	5.64	-5.25	20.37	30.00
	1754.3	20393	V	28.4	5.58	-5.29	28.69	30.00
			H	19.54	5.58	-5.29	19.83	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
BAND 4 BW: 3M QPSK RB: 1,0	1711.5	19965	V	25.13	5.69	-5.17	25.65	30.00
			H	19.16	5.69	-5.17	19.68	30.00
	1732.5	20175	V	27.81	5.64	-5.24	28.21	30.00
			H	19.73	5.64	-5.24	20.13	30.00
	1753.5	20385	V	28.27	5.59	-5.3	28.56	30.00
			H	19.44	5.59	-5.3	19.73	30.00
BAND 4 BW: 3M QPSK RB: 1,14	1711.5	19965	V	24.88	5.68	-5.17	25.39	30.00
			H	18.9	5.68	-5.17	19.41	30.00
	1732.5	20175	V	27.69	5.63	-5.25	28.07	30.00
			H	20.07	5.63	-5.25	20.45	30.00
	1753.5	20385	V	28.38	5.58	-5.29	28.67	30.00
			H	19.18	5.58	-5.29	19.47	30.00
BAND 4 BW: 3M 16QAM RB: 1,0	1711.5	19965	V	25.23	5.69	-5.17	25.75	30.00
			H	19.5	5.69	-5.17	20.02	30.00
	1732.5	20175	V	27.98	5.64	-5.24	28.38	30.00
			H	19.81	5.64	-5.24	20.21	30.00
	1753.5	20385	V	28.28	5.59	-5.3	28.57	30.00
			H	19.64	5.59	-5.3	19.93	30.00
BAND 4 BW: 3M 16QAM RB: 1,14	1711.5	19965	V	25.12	5.68	-5.17	25.63	30.00
			H	19	5.68	-5.17	19.51	30.00
	1732.5	20175	V	27.93	5.63	-5.25	28.31	30.00
			H	20.19	5.63	-5.25	20.57	30.00
	1753.5	20385	V	28.5	5.58	-5.28	28.8	30.00
			H	19.41	5.58	-5.29	19.7	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
BAND 4 BW: 5M QPSK RB: 1,0	1712.5	19975	V	25.1	5.69	-5.17	25.62	30.00
			H	19.3	5.69	-5.17	19.82	30.00
	1732.5	20175	V	27.41	5.64	-5.23	27.82	30.00
			H	19.23	5.64	-5.23	19.64	30.00
	1752.5	20375	V	27.49	5.59	-5.31	27.77	30.00
			H	19.4	5.59	-5.31	19.68	30.00
BAND 4 BW: 5M QPSK RB: 1,24	1712.5	19975	V	24.87	5.68	-5.18	25.37	30.00
			H	18.28	5.68	-5.18	18.78	30.00
	1732.5	20175	V	27.93	5.63	-5.26	28.3	30.00
			H	20.4	5.63	-5.26	20.77	30.00
	1752.5	20375	V	28.4	5.58	-5.29	28.69	30.00
			H	19.47	5.58	-5.29	19.76	30.00
BAND 4 BW: 5M 16QAM RB: 1,0	1712.5	19975	V	25.18	5.69	-5.17	25.7	30.00
			H	19.18	5.69	-5.17	19.7	30.00
	1732.5	20175	V	27.69	5.64	-5.23	28.1	30.00
			H	19.44	5.64	-5.23	19.85	30.00
	1752.5	20375	V	27.93	5.59	-5.3	28.22	30.00
			H	19.67	5.59	-5.3	19.96	30.00
BAND 4 BW: 5M 16QAM RB: 1,24	1712.5	19975	V	24.92	5.68	-5.18	25.42	30.00
			H	18.29	5.68	-5.18	18.79	30.00
	1732.5	20175	V	28.37	5.63	-5.25	28.75	30.00
			H	20.58	5.63	-5.25	20.96	30.00
	1752.5	20375	V	28.47	5.58	-5.29	28.76	30.00
			H	19.44	5.58	-5.29	19.73	30.00

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 4 BW: 10M QPSK RB: 1,0	1715.0	20000	V	24.96	5.69	-5.17	25.48	30.00
			H	19.18	5.69	-5.17	19.7	30.00
	1732.0	20175	V	26.89	5.65	-5.23	27.31	30.00
			H	18.88	5.65	-5.23	19.3	30.00
	1750.0	20350	V	27.57	5.6	-5.3	27.87	30.00
			H	19.68	5.6	-5.3	19.98	30.00
BAND 4 BW: 10M QPSK RB: 1,49	1715.0	20000	V	25.14	5.67	-5.19	25.62	30.00
			H	18.23	5.67	-5.19	18.71	30.00
	1732.0	20175	V	28.05	5.63	-5.26	28.42	30.00
			H	20.59	5.63	-5.26	20.96	30.00
	1750.0	20350	V	27.8	5.58	-5.29	28.09	30.00
			H	19.14	5.58	-5.29	19.43	30.00
BAND 4 BW: 10M 16QAM RB: 1,0	1715.0	20000	V	25.19	5.69	-5.17	25.71	30.00
			H	19.28	5.69	-5.17	19.8	30.00
	1732.0	20175	V	26.78	5.65	-5.23	27.2	30.00
			H	19.41	5.65	-5.23	19.83	30.00
	1750.0	20350	V	28.35	5.61	-5.3	28.66	30.00
			H	19.94	5.6	-5.3	20.24	30.00
BAND 4 BW: 10M 16QAM RB: 1,49	1715.0	20000	V	25	5.67	-5.19	25.48	30.00
			H	17.83	5.67	-5.19	18.31	30.00
	1732.0	20175	V	28.85	5.62	-5.27	29.2	30.00
			H	20.96	5.62	-5.27	21.31	30.00
	1750.0	20350	V	28.2	5.58	-5.29	28.49	30.00
			H	19.36	5.58	-5.29	19.65	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
BAND 4 BW: 15M QPSK RB: 1,0	1717.5	20025	V	24.55	5.69	-5.17	25.07	30.00
			H	19.06	5.69	-5.17	19.58	30.00
	1732.5	20175	V	26.17	5.65	-5.22	26.6	30.00
			H	18.59	5.65	-5.22	19.02	30.00
	1747.5	20325	V	28.23	5.62	-5.28	28.57	30.00
			H	20.3	5.62	-5.28	20.64	30.00
BAND 4 BW: 15M QPSK RB: 1,74	1717.5	20025	V	25.81	5.66	-5.21	26.26	30.00
			H	18.48	5.66	-5.21	18.93	30.00
	1732.5	20175	V	28.07	5.62	-5.28	28.41	30.00
			H	20.34	5.62	-5.28	20.68	30.00
	1747.5	20325	V	27.16	5.61	-5.3	27.47	30.00
			H	18.6	5.61	-5.3	18.91	30.00
BAND 4 BW: 15M 16QAM RB: 1,0	1717.5	20025	V	25.44	5.66	-5.21	25.89	30.00
			H	19.32	5.69	-5.21	19.8	30.00
	1732.5	20175	V	26.44	5.65	-5.22	26.87	30.00
			H	18.68	5.65	-5.22	19.11	30.00
	1747.5	20325	V	28.59	5.62	-5.28	28.93	30.00
			H	20.58	5.62	-5.28	20.92	30.00
BAND 4 BW: 15M 16QAM RB: 1,74	1717.5	20025	V	25.76	5.66	-5.21	26.21	30.00
			H	18.82	5.66	-5.21	19.27	30.00
	1732.5	20175	V	28.37	5.62	-5.27	28.72	30.00
			H	20.7	5.62	-5.27	21.05	30.00
	1747.5	20325	V	27.24	5.62	-5.28	27.58	30.00
			H	18.05	5.62	-5.28	18.39	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
BAND 4 BW: 20M QPSK RB: 1,0	1720.0	20050	V	24.58	5.69	-5.17	25.1	30.00
			H	19	5.69	-5.17	19.52	30.00
	1732.5	20175	V	25.89	5.66	-5.21	26.34	30.00
			H	18.44	5.66	-5.21	18.89	30.00
	1745.0	20300	V	27.56	5.63	-5.26	27.93	30.00
			H	20.19	5.63	-5.26	20.56	30.00
BAND 4 BW: 20M QPSK RB: 1,99	1720.0	20050	V	26.74	5.65	-5.23	27.16	30.00
			H	18.87	5.65	-5.23	19.29	30.00
	1732.5	20175	V	27.92	5.62	-5.28	28.26	30.00
			H	20.01	5.62	-5.28	20.35	30.00
	1745.0	20300	V	27.93	5.58	-5.29	28.22	30.00
			H	19.26	5.58	-5.29	19.55	30.00
BAND 4 BW: 20M 16QAM RB: 1,0	1720.0	20050	V	24.8	5.69	-5.17	25.32	30.00
			H	18.61	5.69	-5.17	19.13	30.00
	1732.5	20175	V	25.55	5.66	-5.21	26	30.00
			H	18.91	5.66	-5.21	19.36	30.00
	1745.0	20300	V	28.11	5.63	-5.26	28.48	30.00
			H	20.49	5.63	-5.26	20.86	30.00
BAND 4 BW: 15M 16QAM RB: 1,99	1720.0	20050	V	27.34	5.58	-5.29	27.63	30.00
			H	19.38	5.59	-5.29	19.68	30.00
	1732.5	20175	V	28.71	5.62	-5.28	29.05	30.00
			H	20.49	5.62	-5.28	20.83	30.00
	1745.0	20300	V	27.76	5.65	-5.23	28.18	30.00
			H	19.89	5.65	-5.23	20.31	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	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 13 BW: 5M QPSK RB: 1,0	779.5	23205	V	13.89	5.19	-3.21	15.87	34.77
			H	22.16	5.19	-3.21	24.14	34.77
	782.0	23230	V	14.24	5.19	-3.24	16.19	34.77
			H	22.76	5.19	-3.24	24.71	34.77
	784.5	23255	V	12.8	5.19	-3.4	14.59	34.77
			H	21.79	5.19	-3.4	23.58	34.77
BAND 13 BW: 5M QPSK RB: 1,24	779.5	23205	V	13.79	5.2	-3.33	15.66	34.77
			H	22.94	5.2	-3.33	24.81	34.77
	782.0	23230	V	13.81	5.2	-3.51	15.5	34.77
			H	22.85	5.2	-3.51	24.54	34.77
	784.5	23255	V	12.86	5.19	-3.29	14.76	34.77
			H	21.62	5.19	-3.29	23.52	34.77
BAND 13 BW: 5M 16QAM RB: 1,0	779.5	23205	V	14.31	5.19	-3.27	16.23	34.77
			H	22.86	5.19	-3.27	24.78	34.77
	782.0	23230	V	14.73	5.19	-3.21	16.71	34.77
			H	22.83	5.19	-3.21	24.81	34.77
	784.5	23255	V	10.91	5.19	-3.37	12.73	34.77
			H	21.95	5.19	-3.37	23.77	34.77
BAND 13 BW: 5M 16QAM RB: 1,24	779.5	23205	V	13.21	5.19	-3.3	15.1	34.77
			H	21.79	5.19	-3.3	23.68	34.77
	782.0	23230	V	13.83	5.2	-3.51	15.52	34.77
			H	22.85	5.2	-3.51	24.54	34.77
	784.5	23255	V	13.28	5.2	-3.33	15.15	34.77
			H	23.31	5.2	-3.33	25.18	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
BAND 13 BW: 10M QPSK RB: 1,0	782.0	23230	V	14	5.19	-3.21	15.98	34.77
			H	22.02	5.19	-3.21	24	34.77
BAND 13 BW: 10M QPSK RB: 1,49	782.0	23230	V	14.15	5.2	-3.33	16.02	34.77
			H	22.62	5.2	-3.33	24.49	34.77
BAND 13 BW: 10M 16QAM RB: 1,0	782.0	23230	V	14.2	5.19	-3.21	16.18	34.77
			H	22.62	5.19	-3.21	24.6	34.77
BAND 13 BW: 10M 16QAM RB: 1,49	782.0	23230	V	14.42	5.2	-3.33	16.29	34.77
			H	23.34	5.2	-3.33	25.21	34.77

Remark :

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

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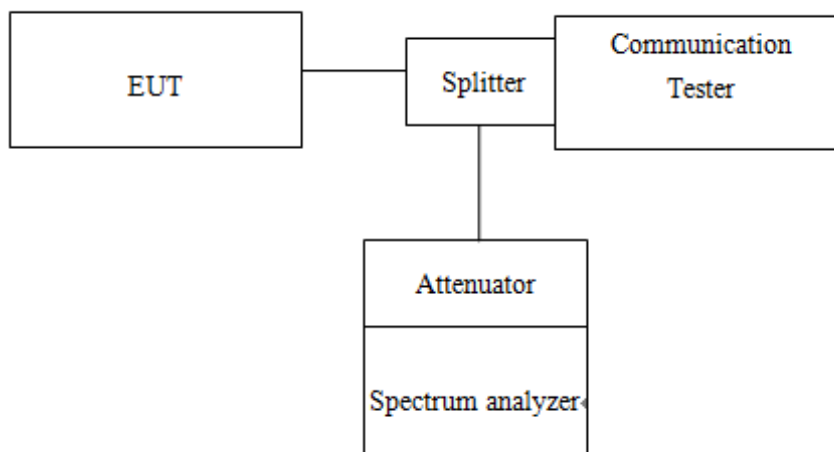
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8. OCCUPIED BANDWIDTH MEASUREMENT

8.1. Standard Applicable

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

8.2. Test Set-up



8.3. Measurement Procedure

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 $\text{span} > 2 * \text{Signal BW}$, set % Power = 99%.

NOTE: For the plot of bandwidth measurement, the marker of the 99% bandwidth is diamond-shape while the marker of the 26dB BW is arrow-mark

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8.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	10/15/2014	10/14/2015
Communication Tester	Anritsu	MT8820C	6201107337	05/27/2015	05/26/2016
Coaxial Cable 30cm	WOKEN	00100A1F1A1 95C	RF01	12/19/2014	12/18/2015
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/18/2015	06/17/2016
DC Block	PASTERNACK	PE8210	RF29	12/19/2014	12/18/2015
Splitter	RF-LAMBAD	RFLT2W1G18 G	RF35	12/19/2014	12/18/2015
Attenuator	WOKEN	218FS-10	RF23	12/19/2014	12/18/2015
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2015	05/03/2016

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8.5. Measurement Result

99% Bandwidth

Frequency (MHz)	CH	99% Bandwidth (MHz)	
		CDMA BC0	EVDO BC0
824.7	1013	1.2738	1.2655
836.52	384	1.2698	1.2659
848.31	777	1.2779	1.2700

Frequency (MHz)	CH	99% Bandwidth (MHz)	
		CDMA BC1	EVDO BC1
1851.25	25	1.2672	1.2689
1880.00	600	1.2745	1.2793
1908.75	1175	1.2790	1.2774

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LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)		Frequency (MHz)	CH	99% Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1710.7	19957	1.0950	1.0987	1711.5	19965	2.7043	2.7047
1732.5	20175	1.0928	1.0977	1732.5	20175	2.7108	2.7268
1754.3	20393	1.0959	1.0986	1753.5	20385	2.7018	2.7079

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)		Frequency (MHz)	CH	99% Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1712.5	19957	4.5074	4.5104	1715.0	20000	8.9399	8.9627
1732.5	20175	4.5304	4.4912	1732.5	20175	8.9858	8.9491
1752.5	20375	4.4934	4.5083	1750.0	20350	8.9879	8.9593

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)		Frequency (MHz)	CH	99% Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1717.5	20025	13.370	13.432	1720.0	20050	17.881	17.849
1732.5	20175	13.452	13.475	1732.5	20175	17.897	17.977
1747.5	20325	13.433	13.456	1745.0	20300	17.953	17.935

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LTE BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)		Frequency (MHz)	CH	99% Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
779.5	23205	4.5065	4.4931	23230	782	8.8895	8.8768
782.0	23230	4.4836	4.5086				
784.5	23255	4.5015	4.5000				

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26dB Bandwidth

Frequency (MHz)	CH	26dB Bandwidth (MHz)	
		CDMA BC0	EVDO BC0
824.7	1013	1.405	1.413
836.52	384	1.412	1.410
848.31	777	1.416	1.421

Frequency (MHz)	CH	26dB Bandwidth (MHz)	
		CDMA BC1	EVDO BC1
1851.25	25	1.412	1.409
1880.00	600	1.421	1.416
1908.75	1175	1.419	1.416

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LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)		Frequency (MHz)	CH	26dB Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1710.7	19957	1.287	1.270	1711.5	19965	2.970	3.010
1732.5	20175	1.282	1.292	1732.5	20175	2.997	3.022
1754.3	20393	1.290	1.330	1753.5	20385	3.007	3.073

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)		Frequency (MHz)	CH	26dB Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1712.5	19957	5.080	4.984	1715.0	20000	9.718	9.756
1732.5	20175	5.133	5.064	1732.5	20175	9.750	9.748
1752.5	20375	5.022	4.927	1750.0	20350	9.920	9.682

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)		Frequency (MHz)	CH	26dB Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1717.5	20025	14.41	14.66	1720.0	20050	19.57	19.33
1732.5	20175	14.65	14.72	1732.5	20175	19.17	19.40
1747.5	20325	14.58	14.78	1745.0	20300	19.64	19.25

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LTE BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)		Frequency (MHz)	CH	26dB Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
779.5	23205	5.013	4.913	23230	782	9.540	9.689
782.0	23230	5.075	4.949				
784.5	23255	5.049	5.075				

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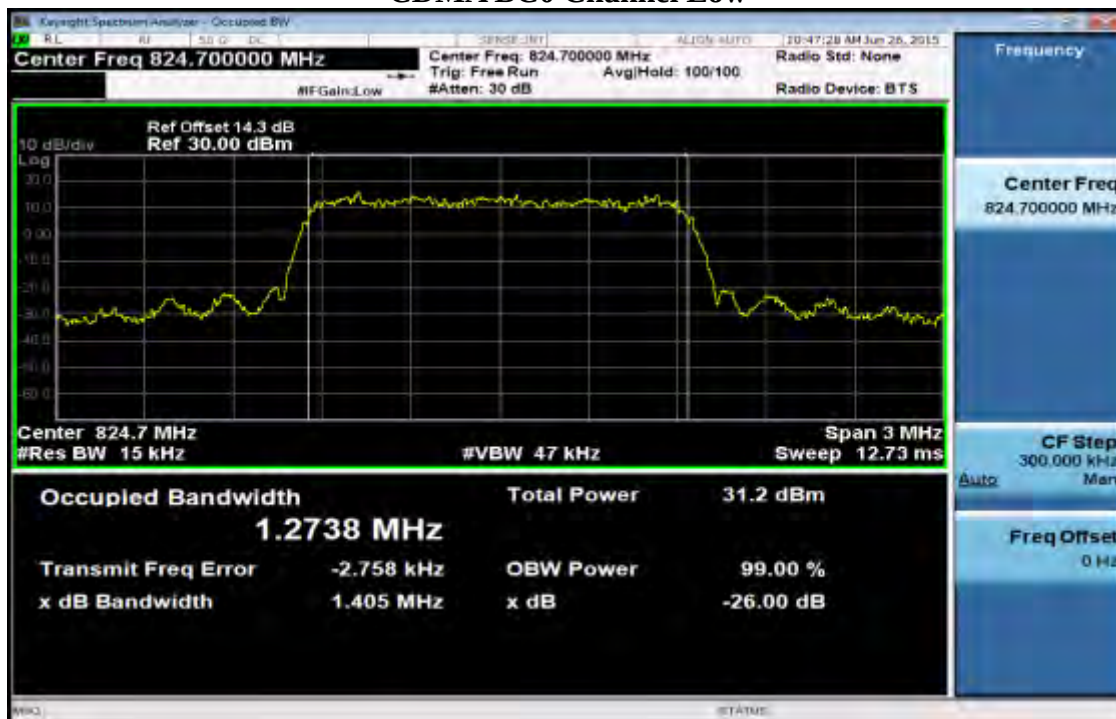
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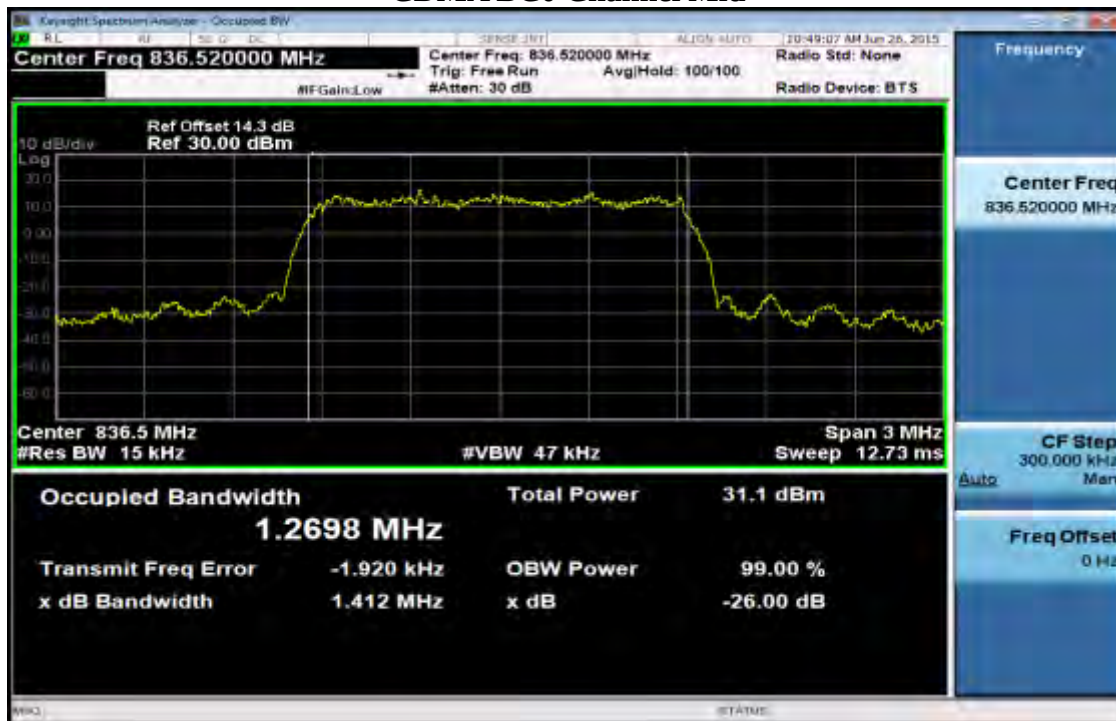
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99% & 26dB Bandwidth Test Data

CDMA BC0 Channel Low



CDMA BC0 Channel Mid



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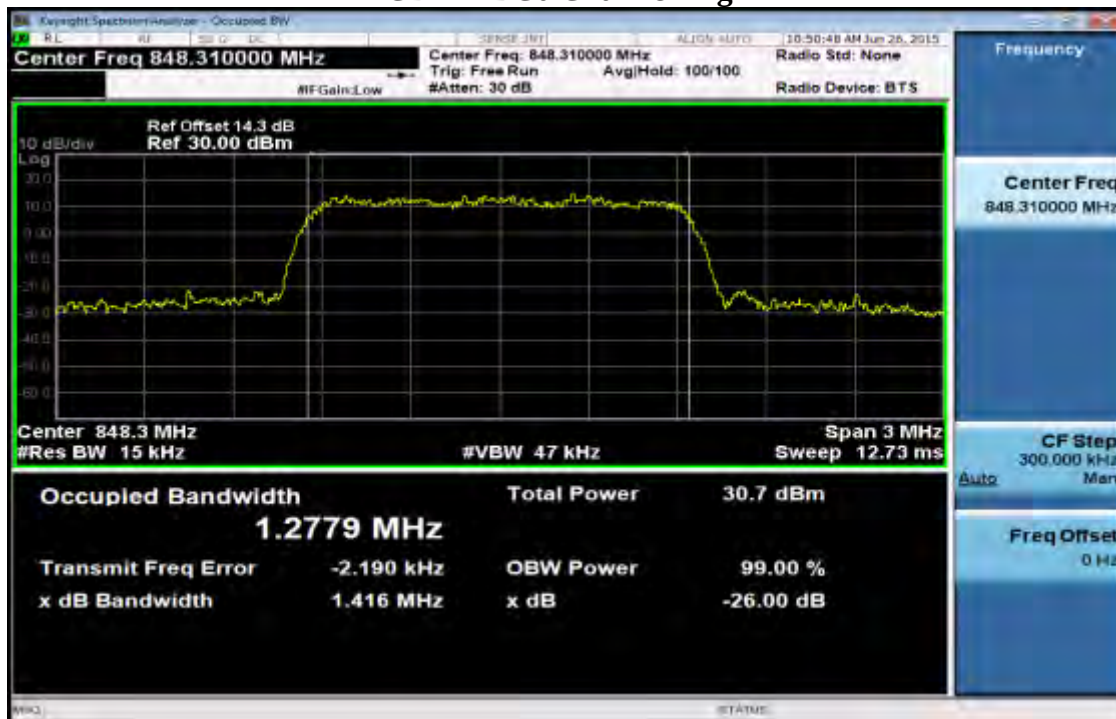
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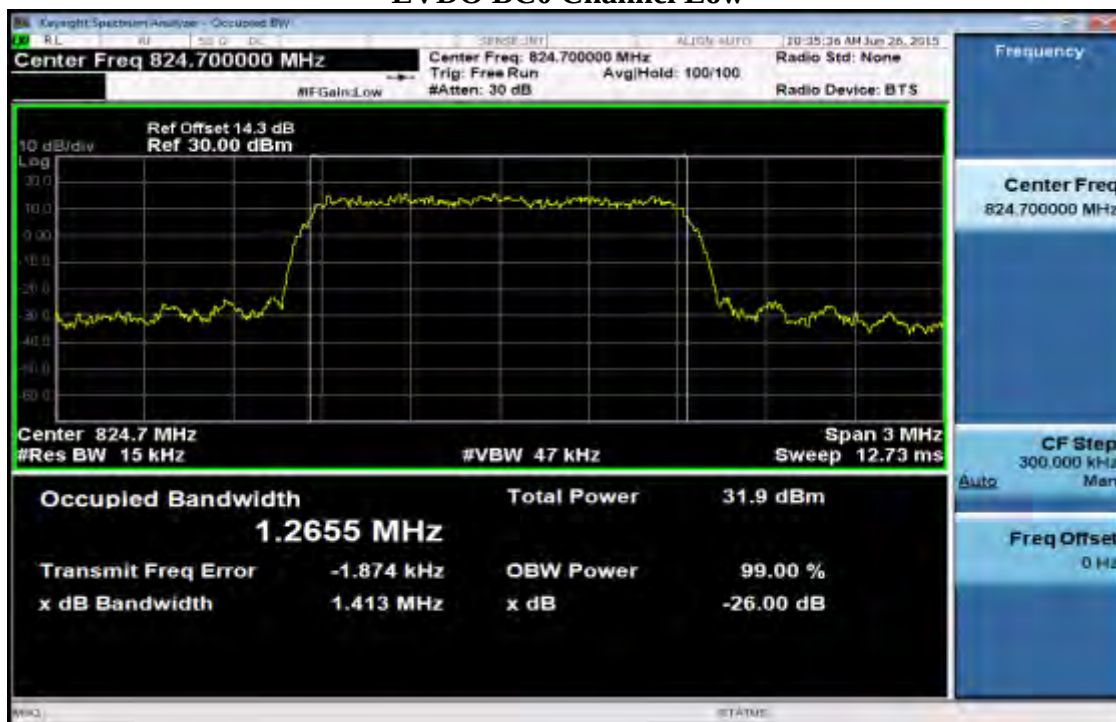
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CDMA BC0 Channel High



EVDO BC0 Channel Low



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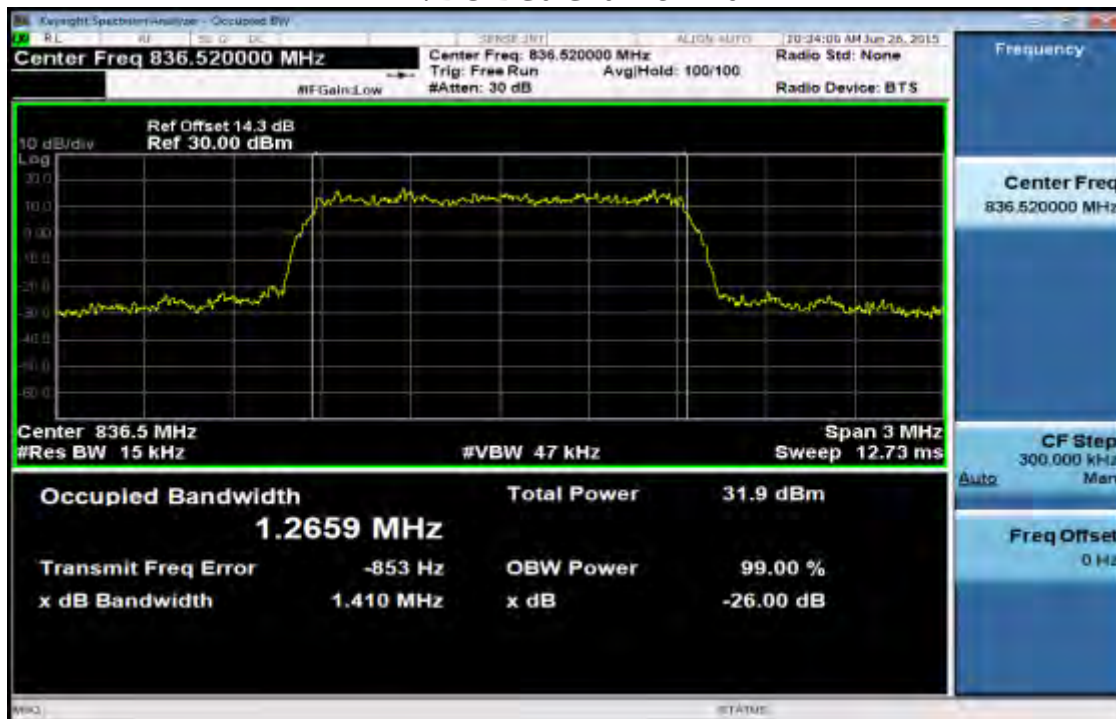
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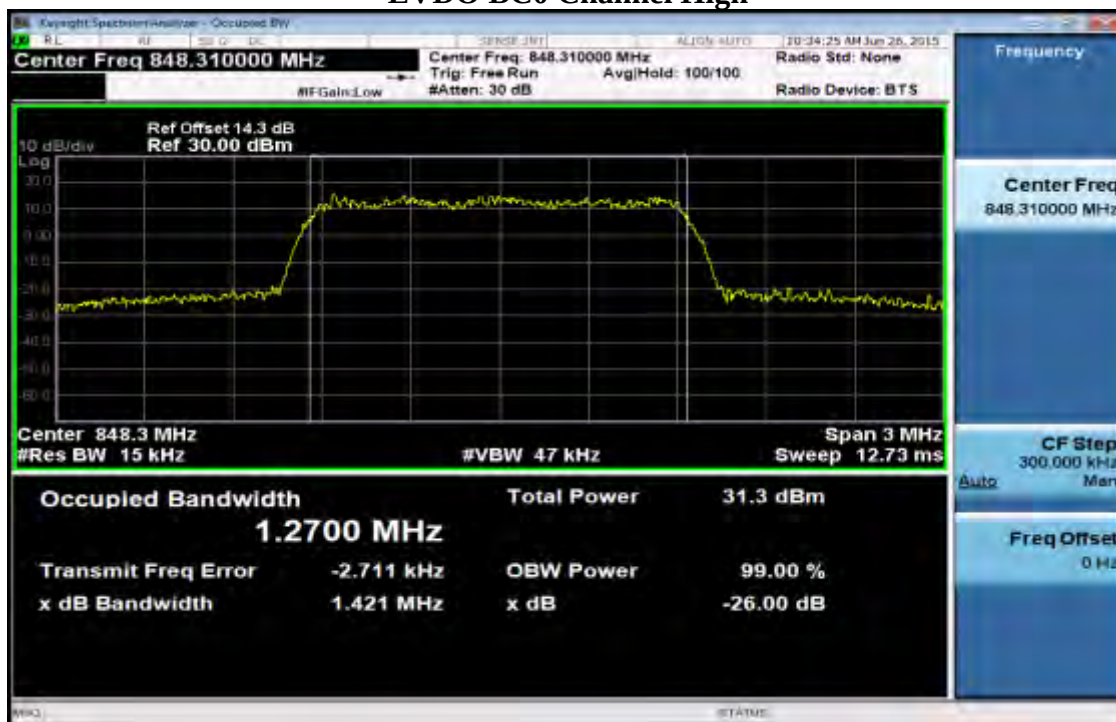
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EVDO BC0 Channel Mid



EVDO BC0 Channel High



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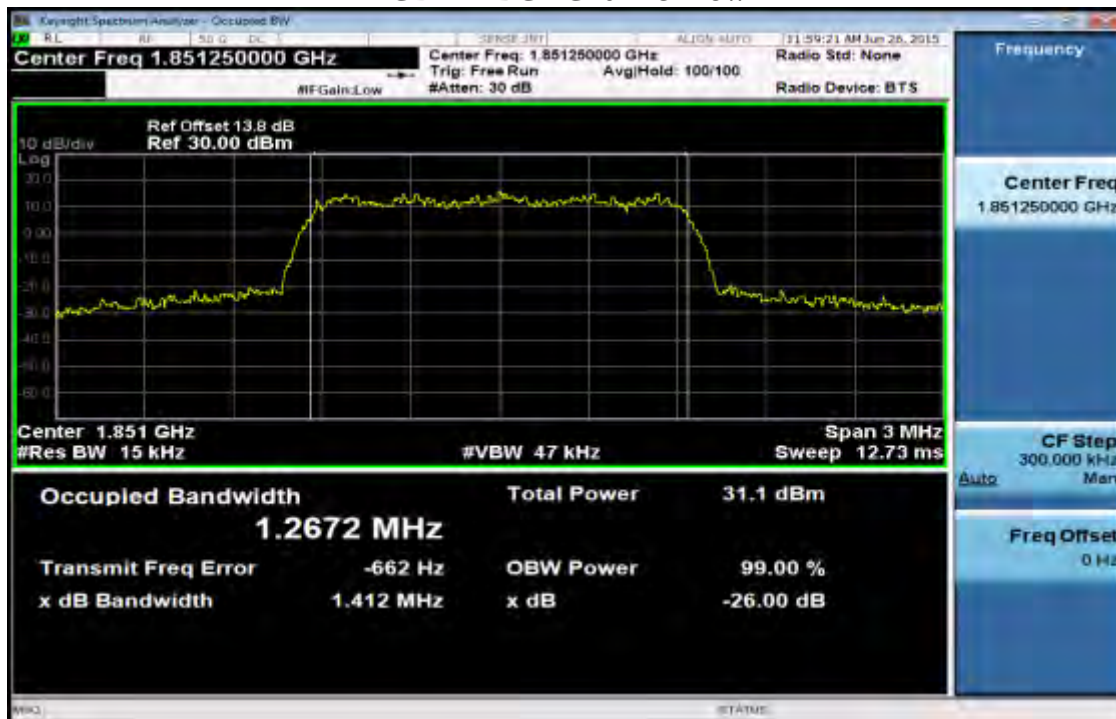
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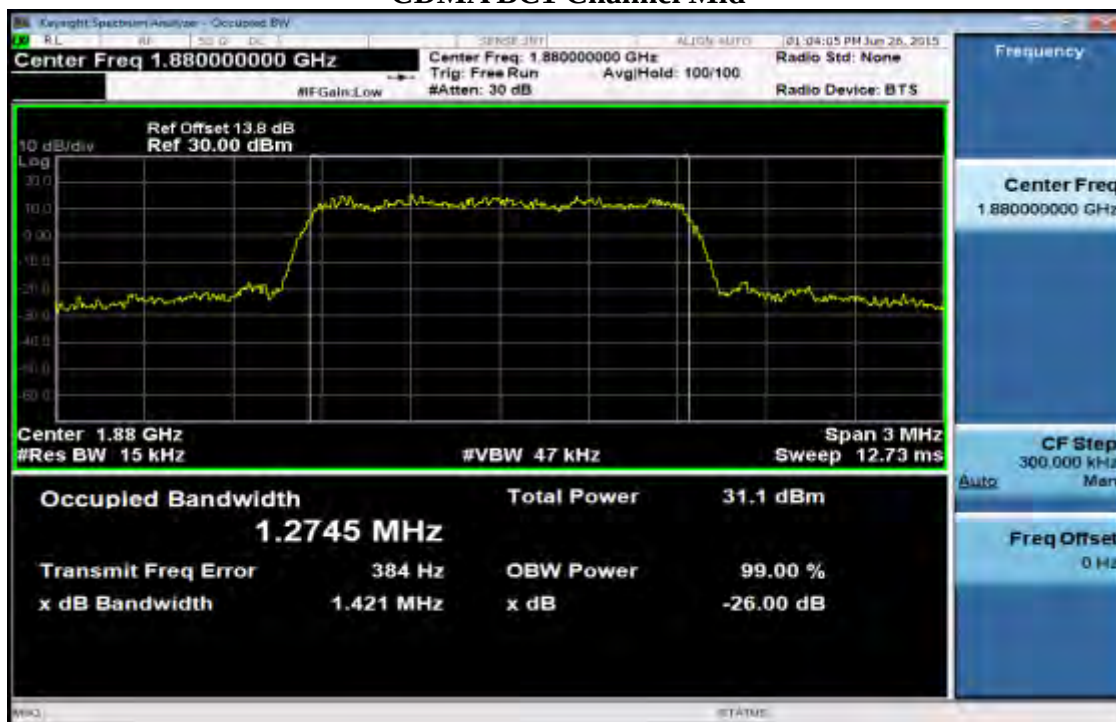
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CDMA BC1 Channel Low



CDMA BC1 Channel Mid



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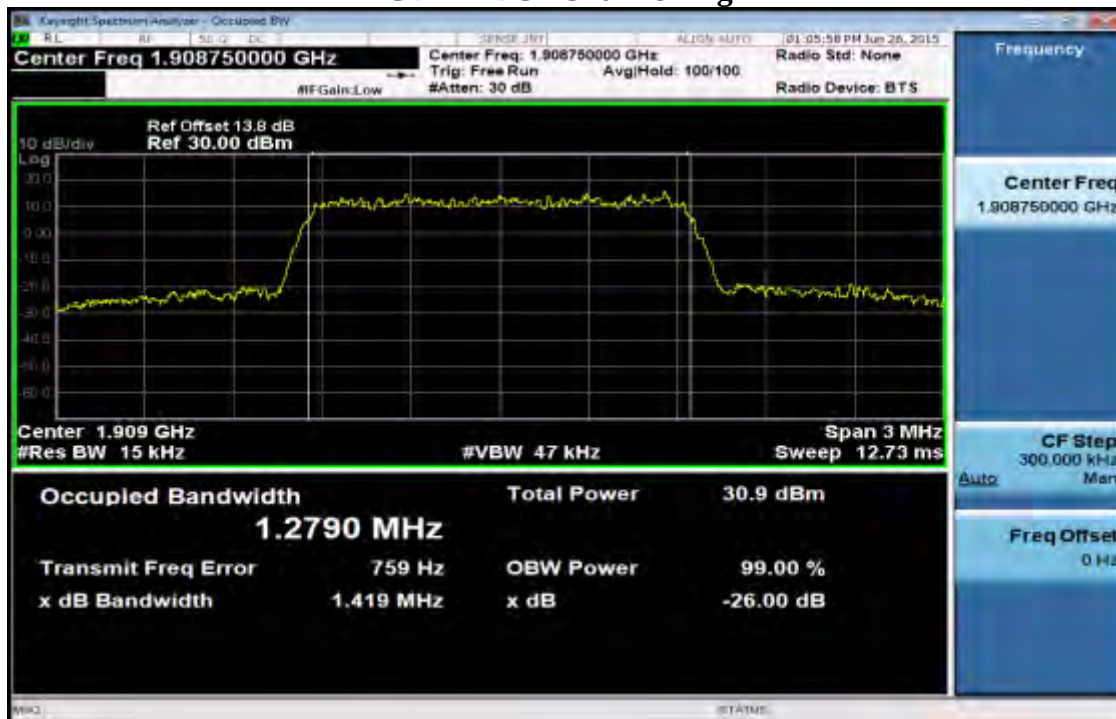
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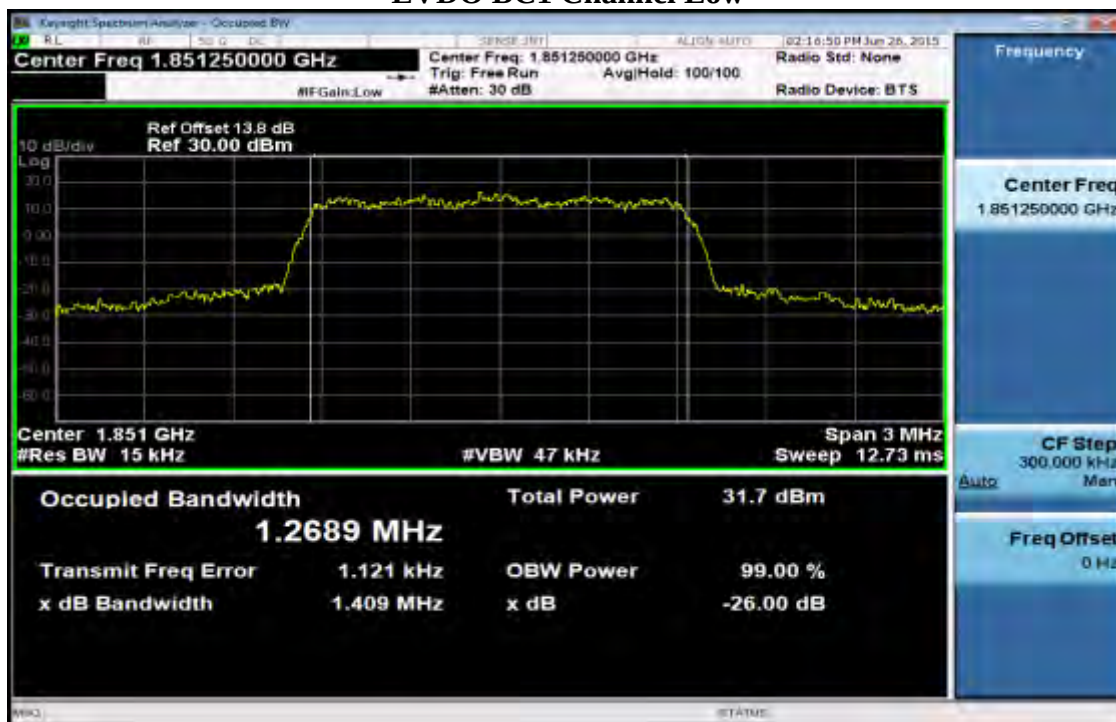
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CDMA BC1 Channel High



EVDO BC1 Channel Low



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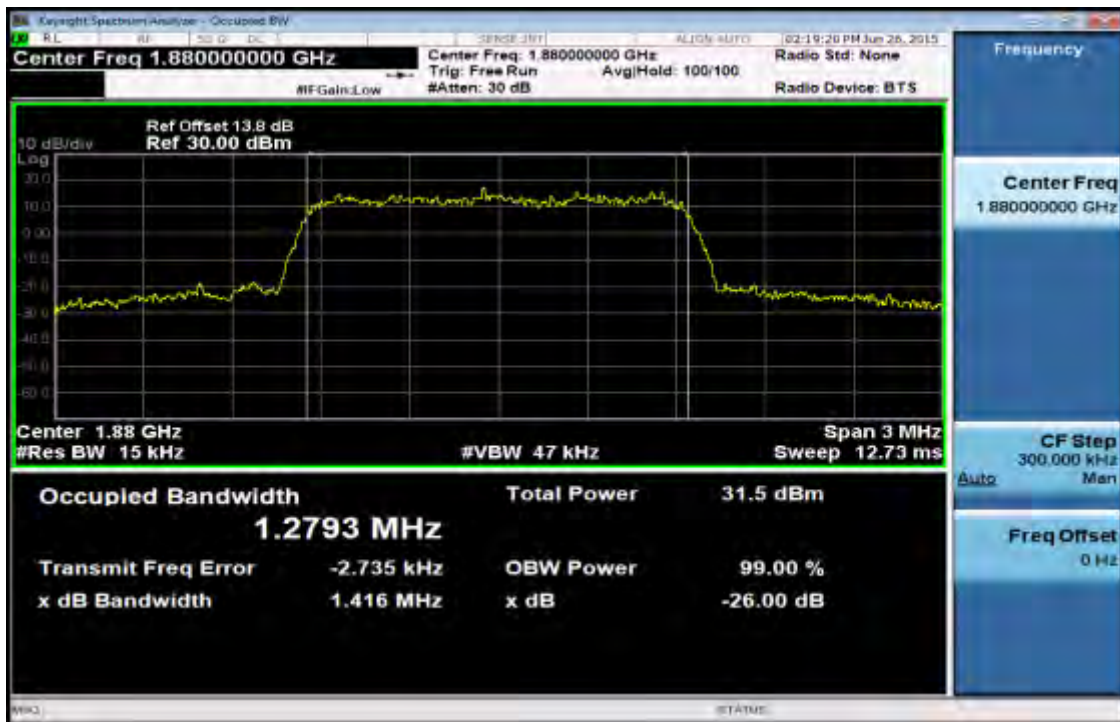
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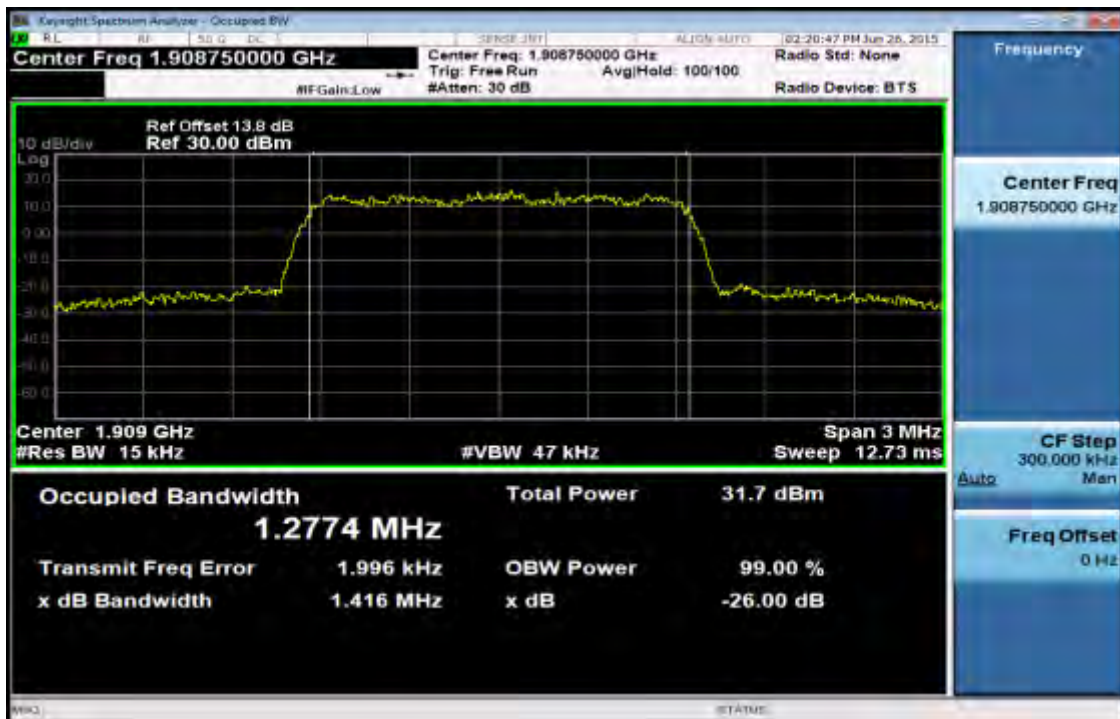
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EVDO BC1 Channel Mid



EVDO BC1 Channel High



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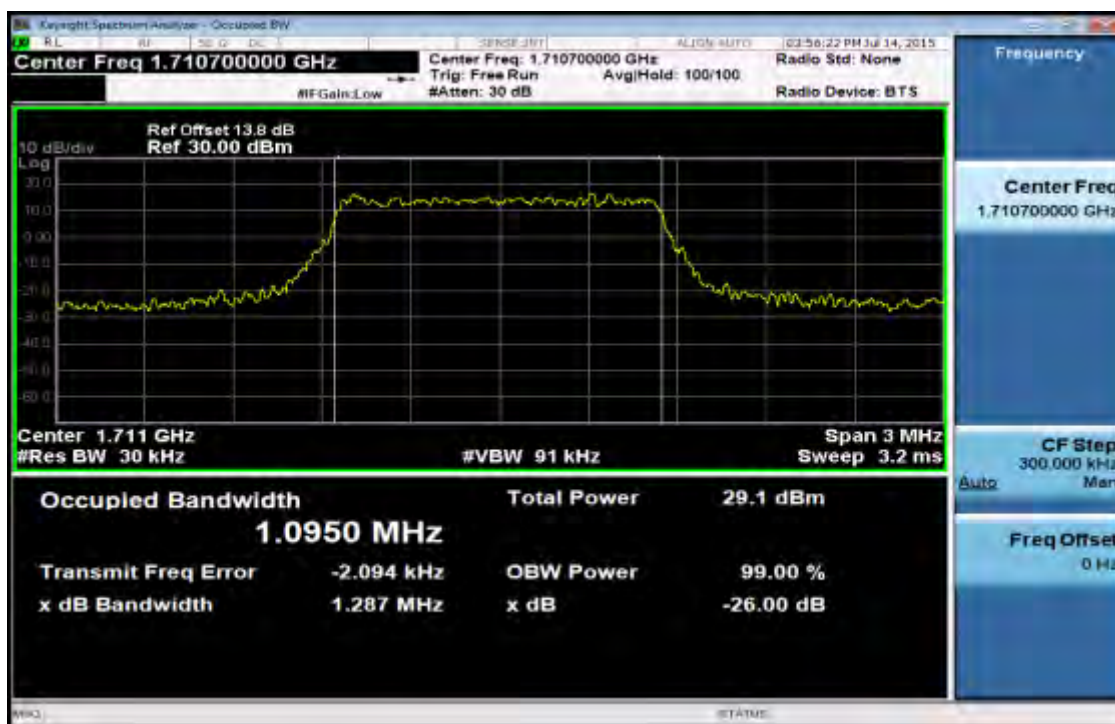
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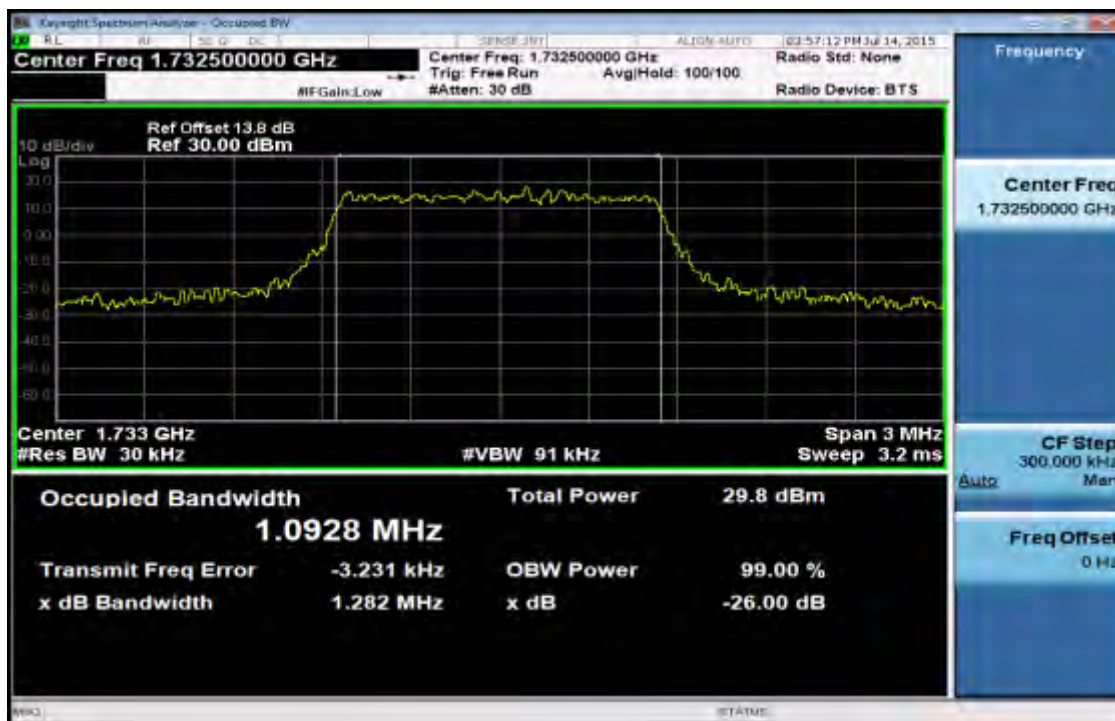
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1.4MHz BW LTE-Band 4 QPSK Channel Low



1.4MHz BW LTE-Band 4 QPSK Channel Mid



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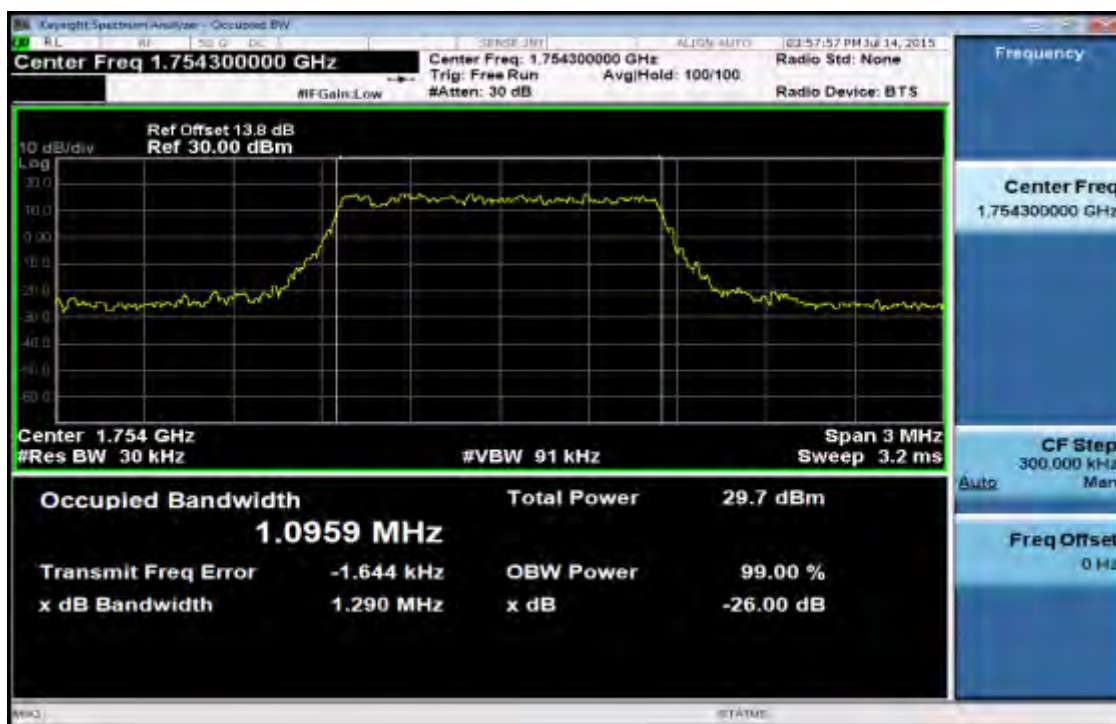
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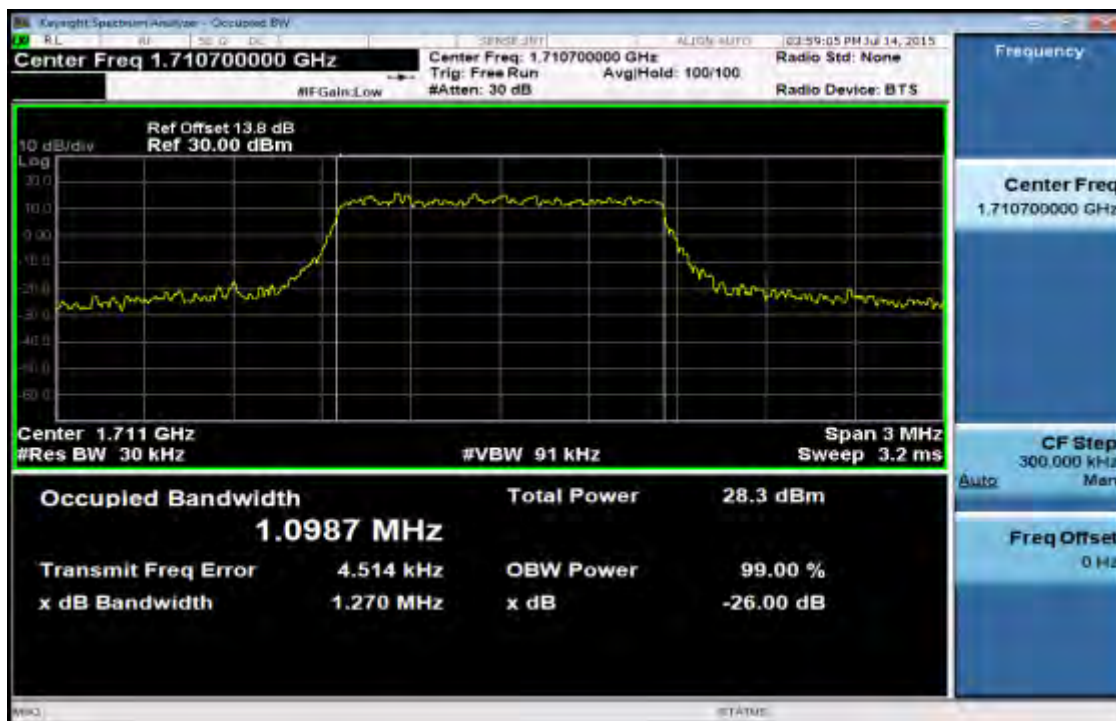
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1.4MHz BW LTE-Band 4 QPSK Channel High



1.4MHz BW LTE-Band 4 16QAM Channel Low



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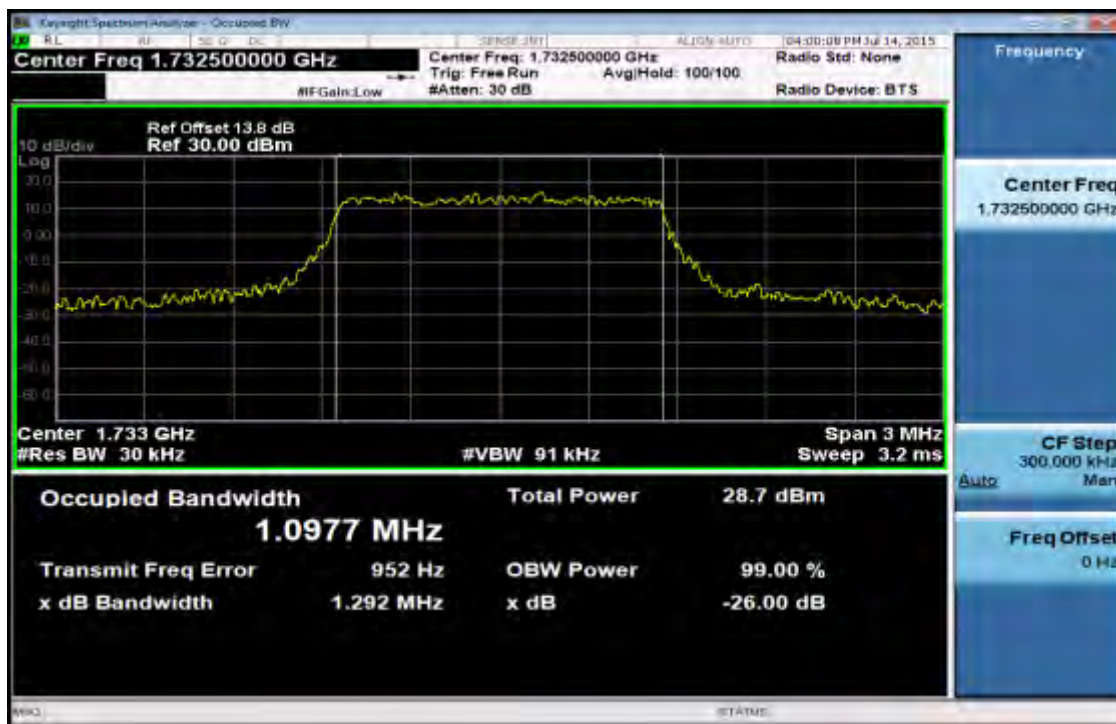
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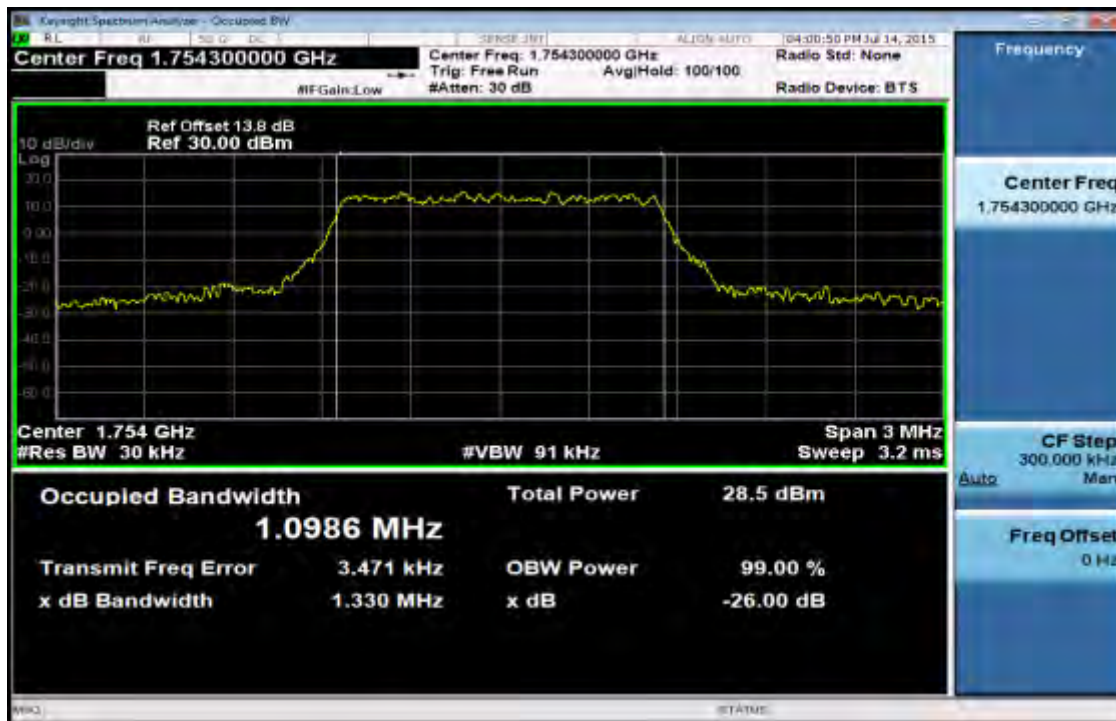
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1.4MHz BW LTE-Band 4 16QAM Channel Mid



1.4MHz BW LTE-Band 4 16QAM Channel High



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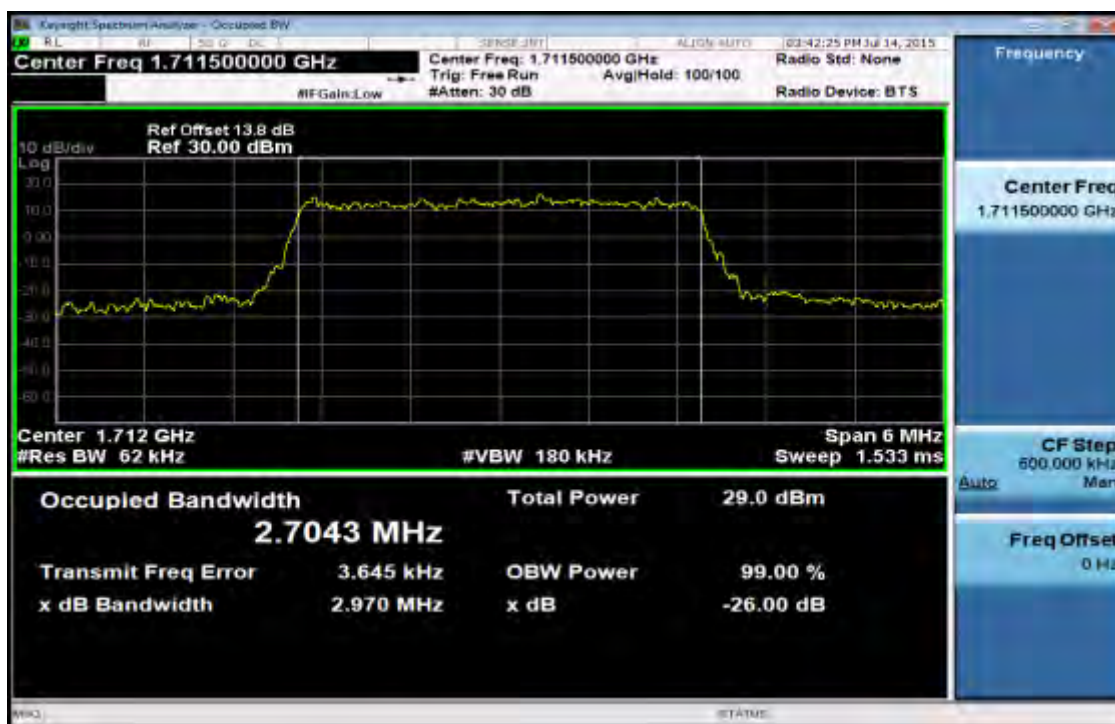
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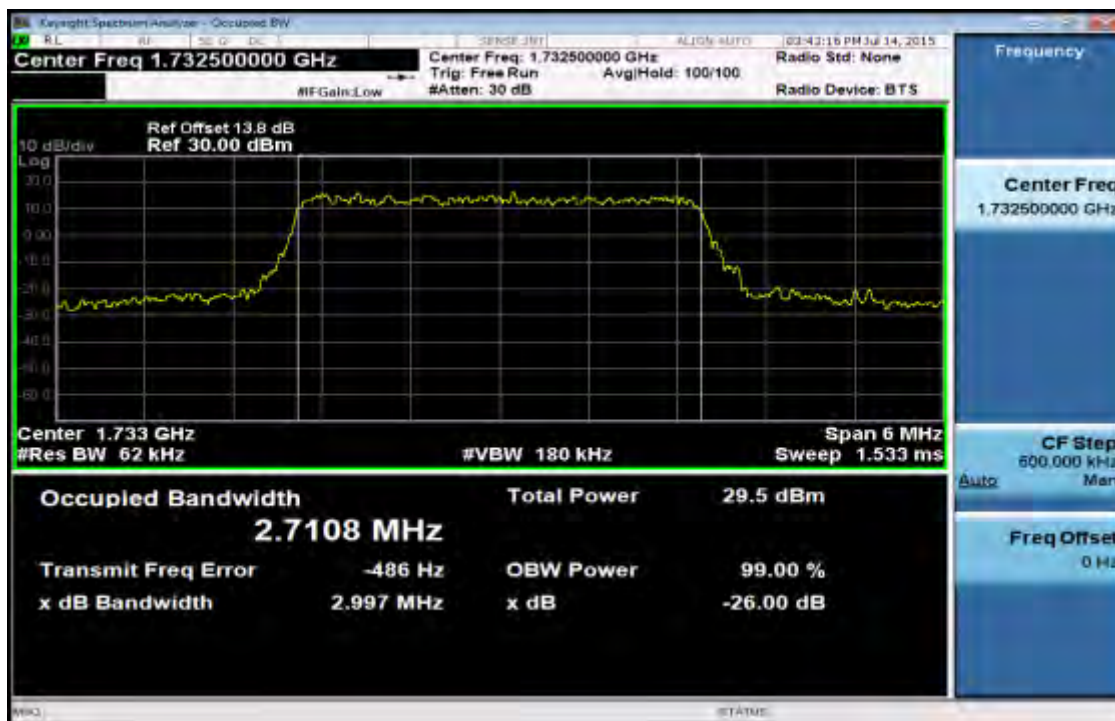
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3MHz BW LTE-Band 4 QPSK Channel Low



3MHz BW LTE-Band 4 QPSK Channel Mid



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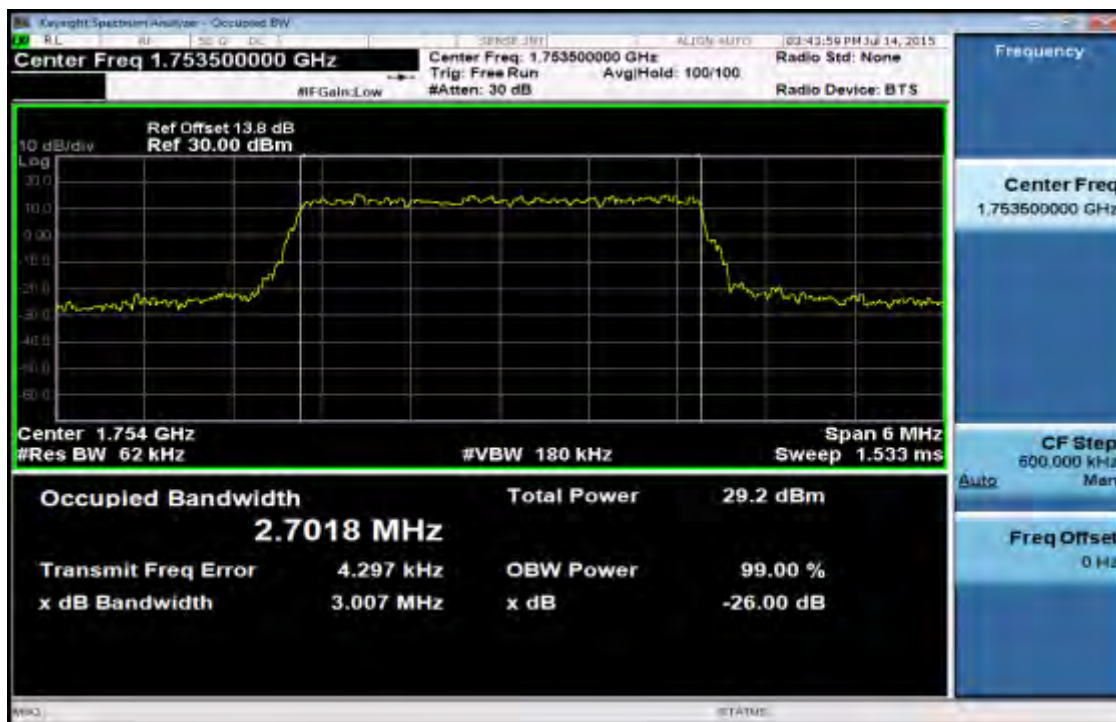
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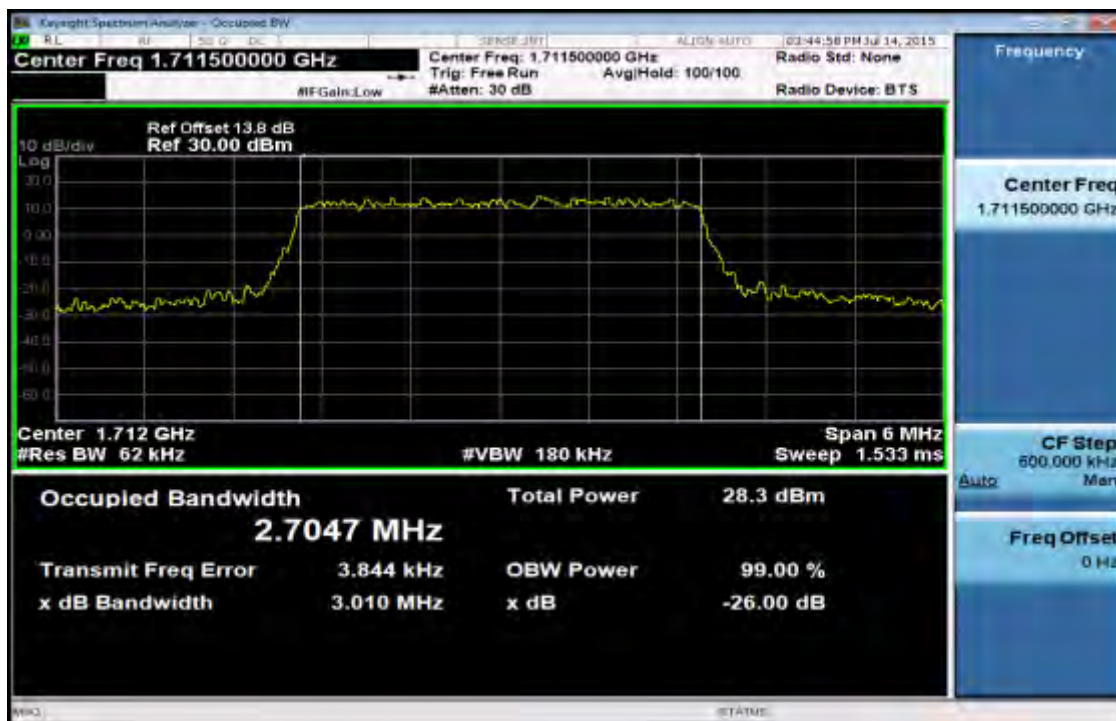
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3MHz BW LTE-Band 4 QPSK Channel High



3MHz BW LTE-Band 4 16QAM Channel Low



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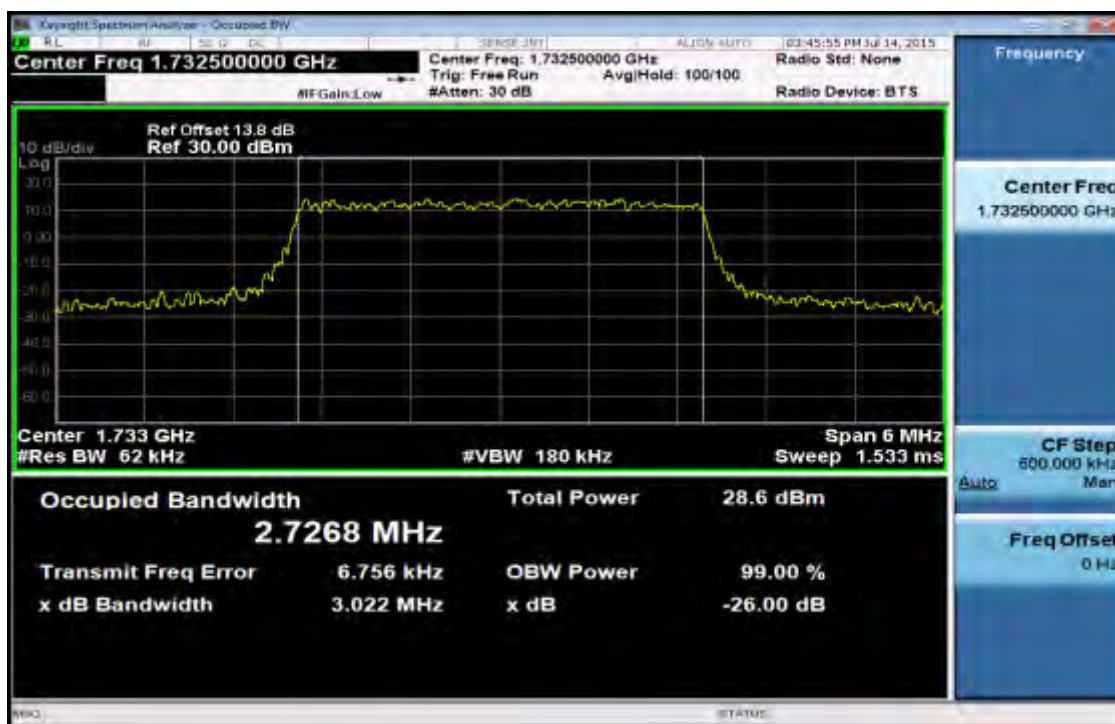
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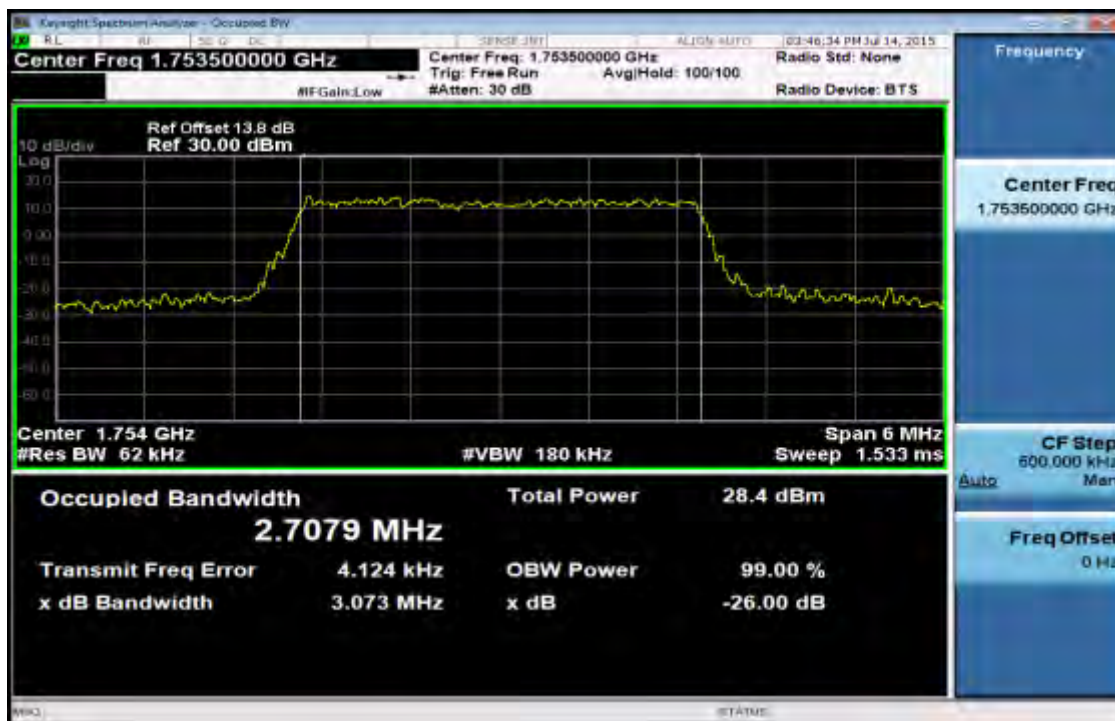
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3MHz BW LTE-Band 4 16QAM Channel Mid



3MHz BW LTE-Band 4 16QAM Channel High



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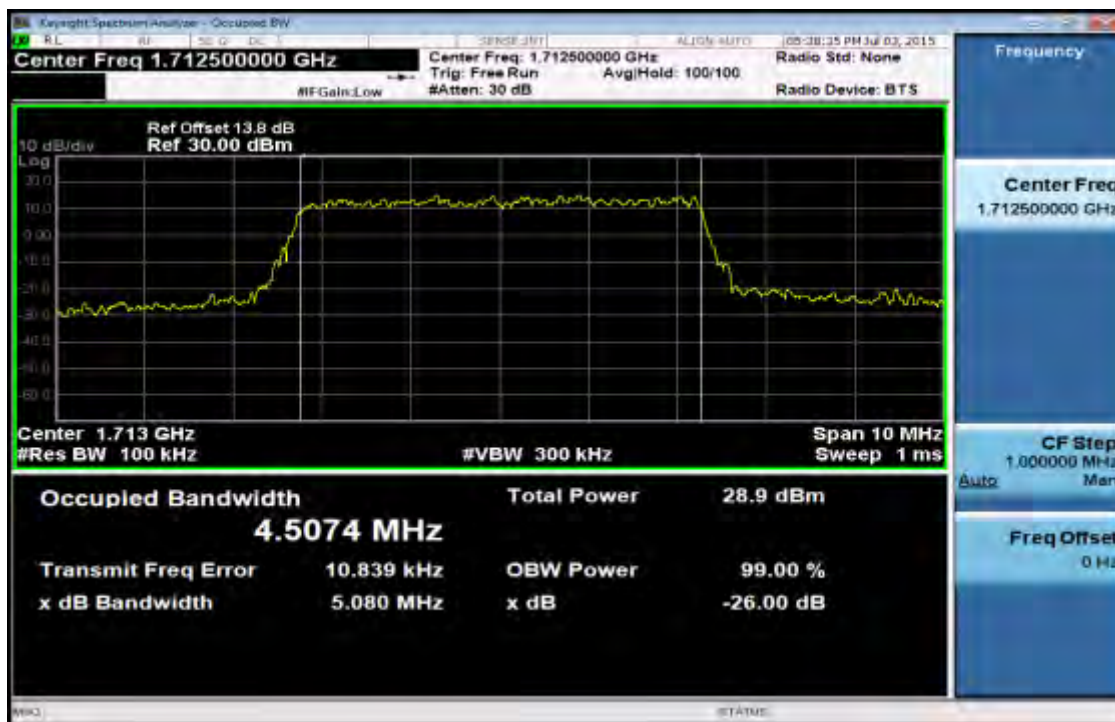
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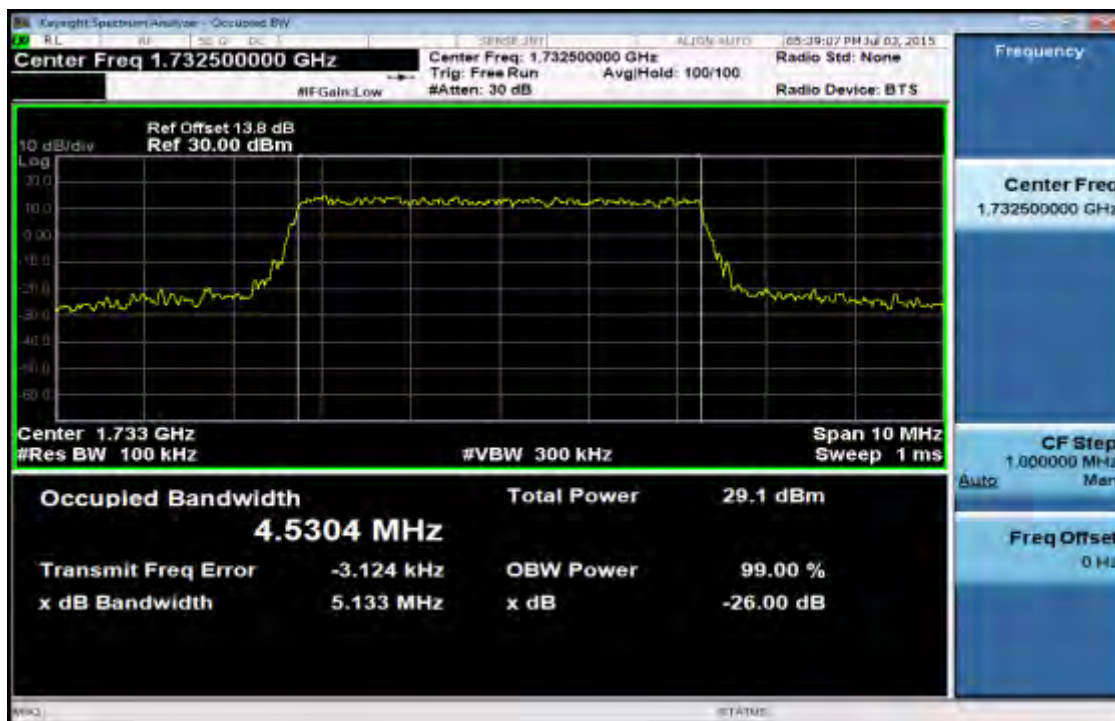
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5MHz BW LTE-Band 4 QPSK Channel Low



5MHz BW LTE-Band 4 QPSK Channel Mid



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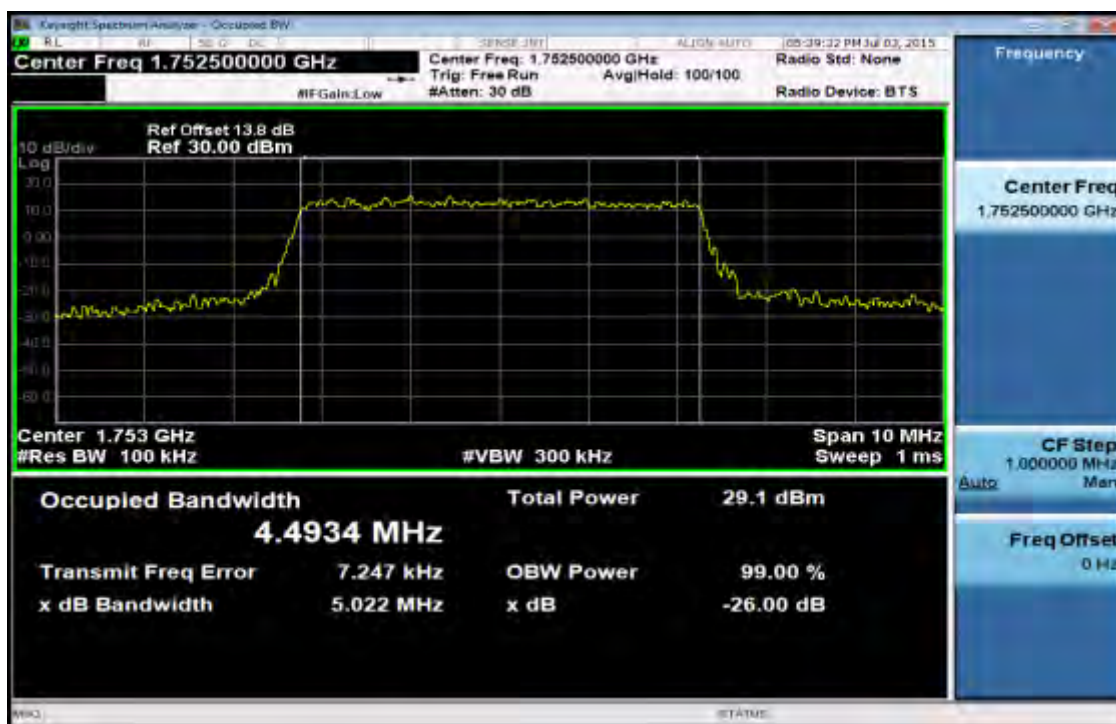
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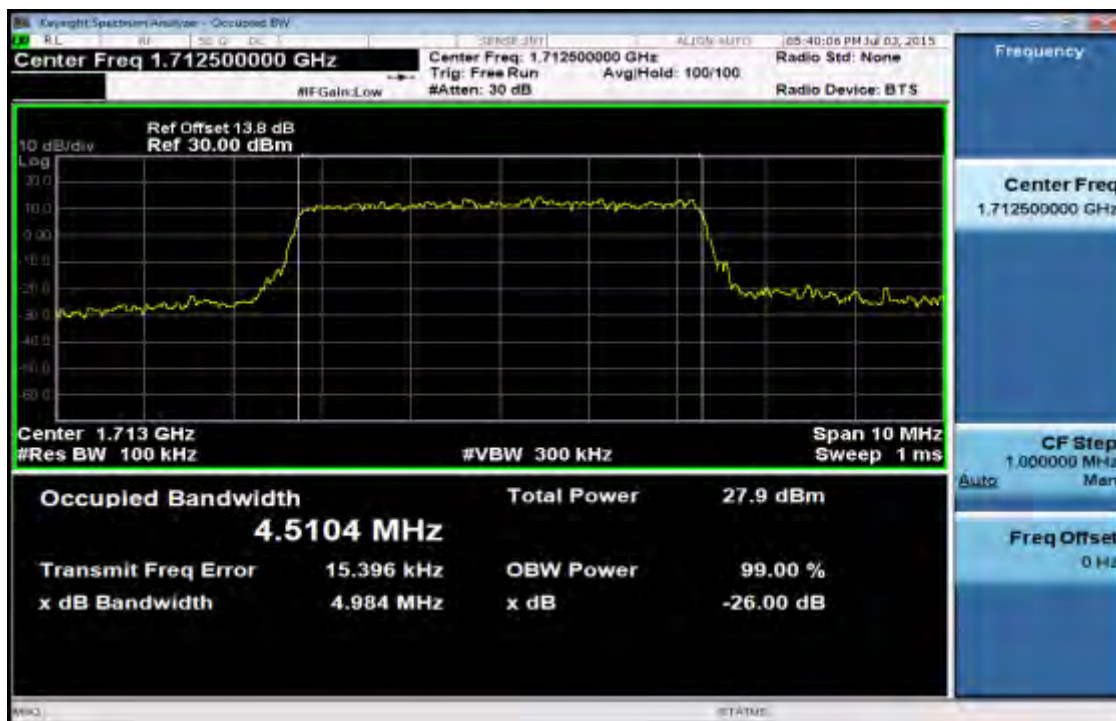
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5MHz BW LTE-Band 4 QPSK Channel High



5MHz BW LTE-Band 4 16QAM Channel Low



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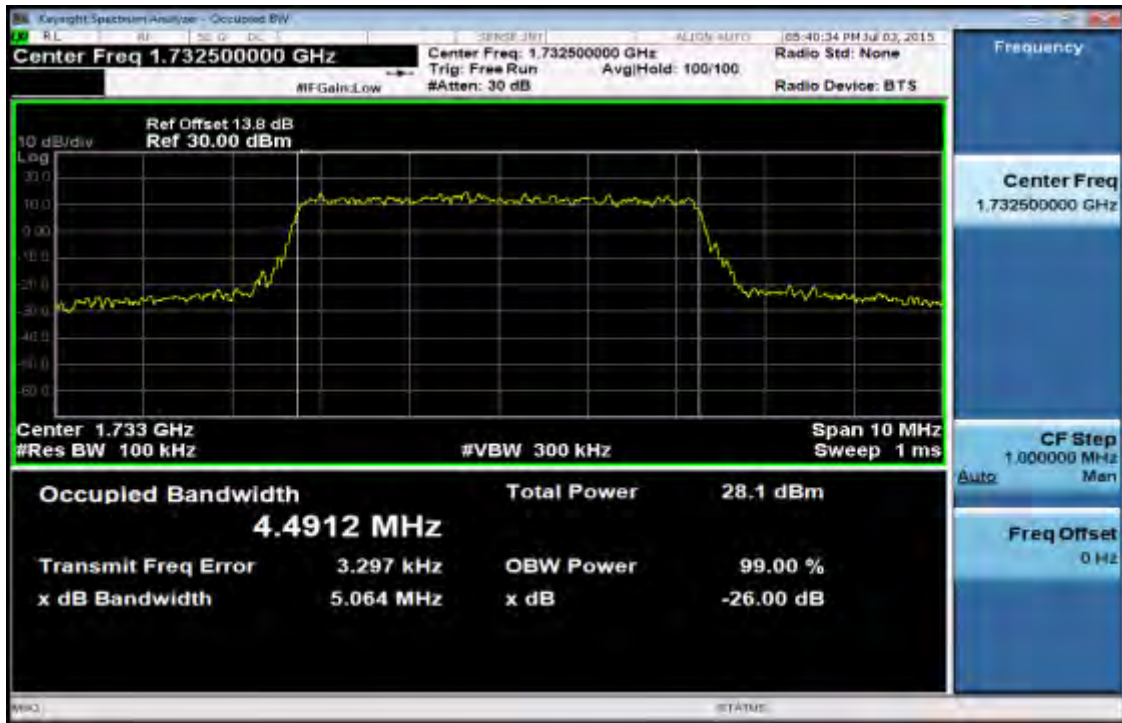
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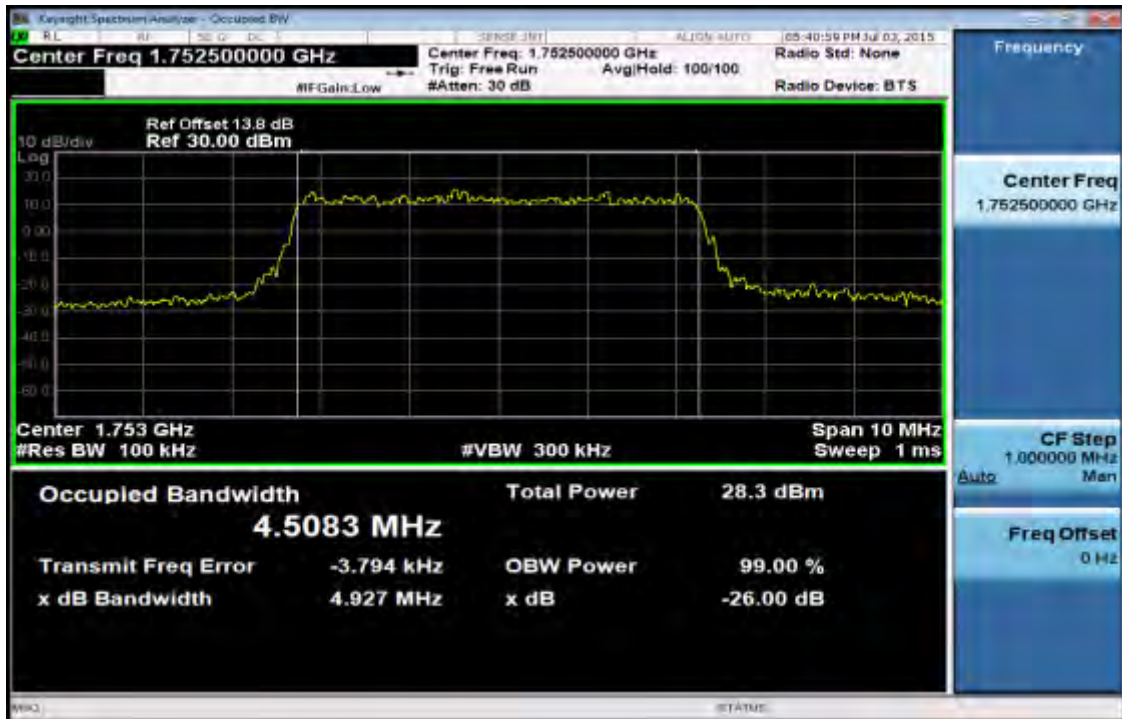
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5MHz BW LTE-Band 4 16QAM Channel Mid



5MHz BW LTE-Band 4 16QAM Channel High



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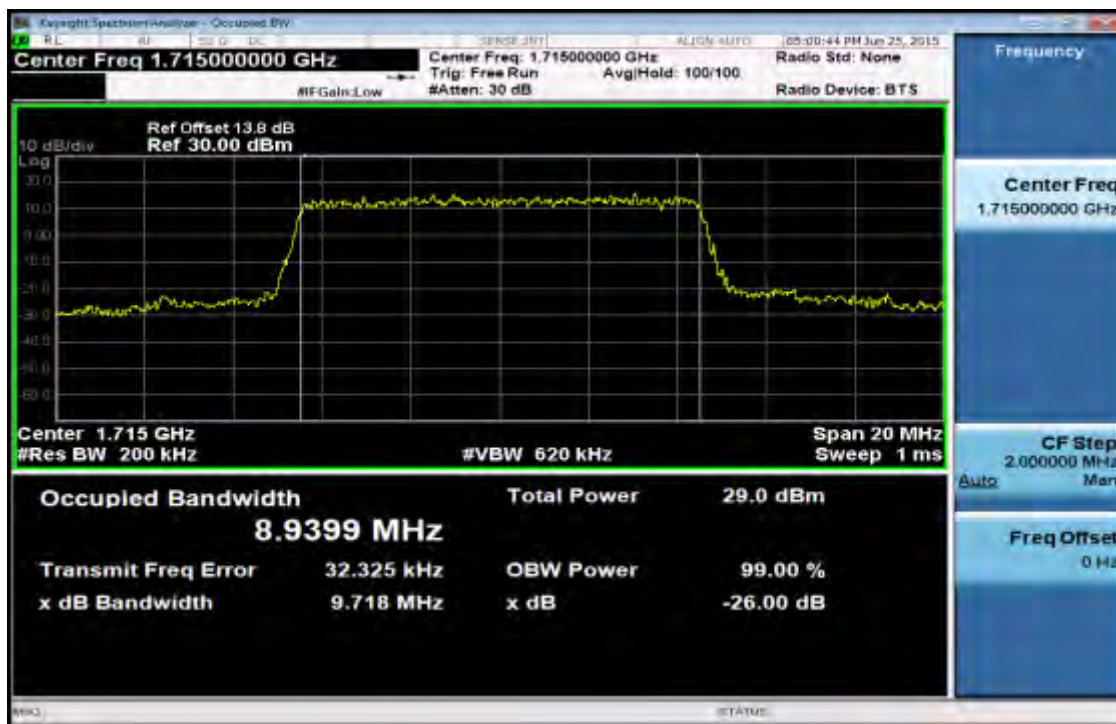
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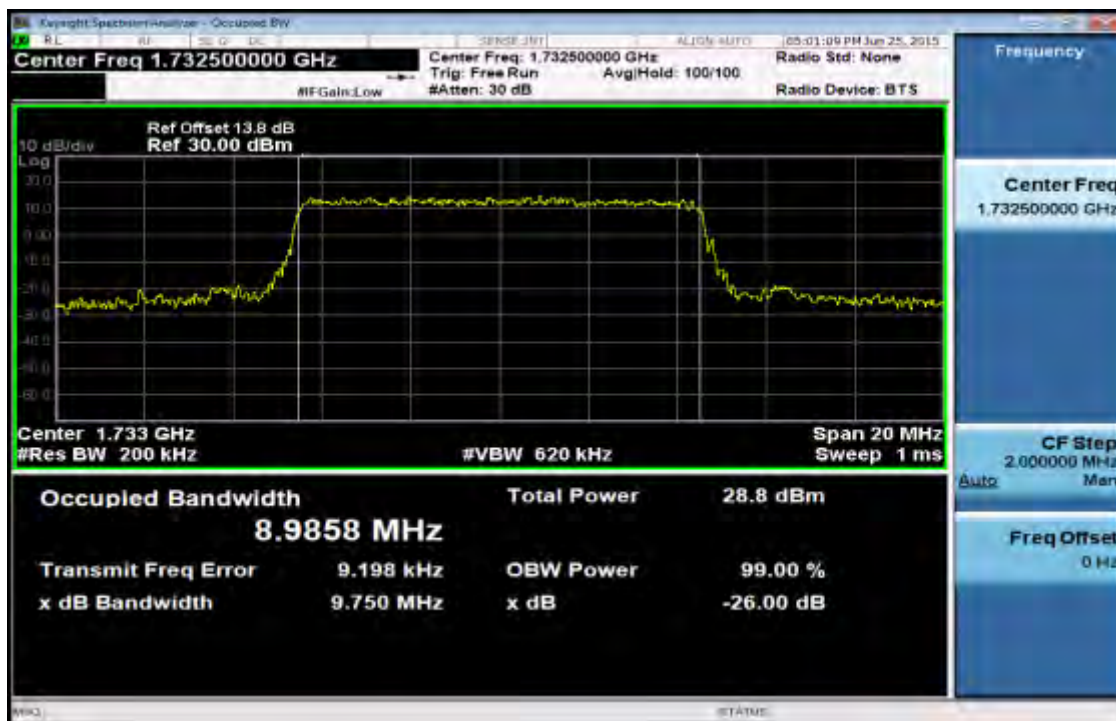
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10MHz BW LTE-Band 4 QPSK Channel Low



10MHz BW LTE-Band 4 QPSK Channel Mid



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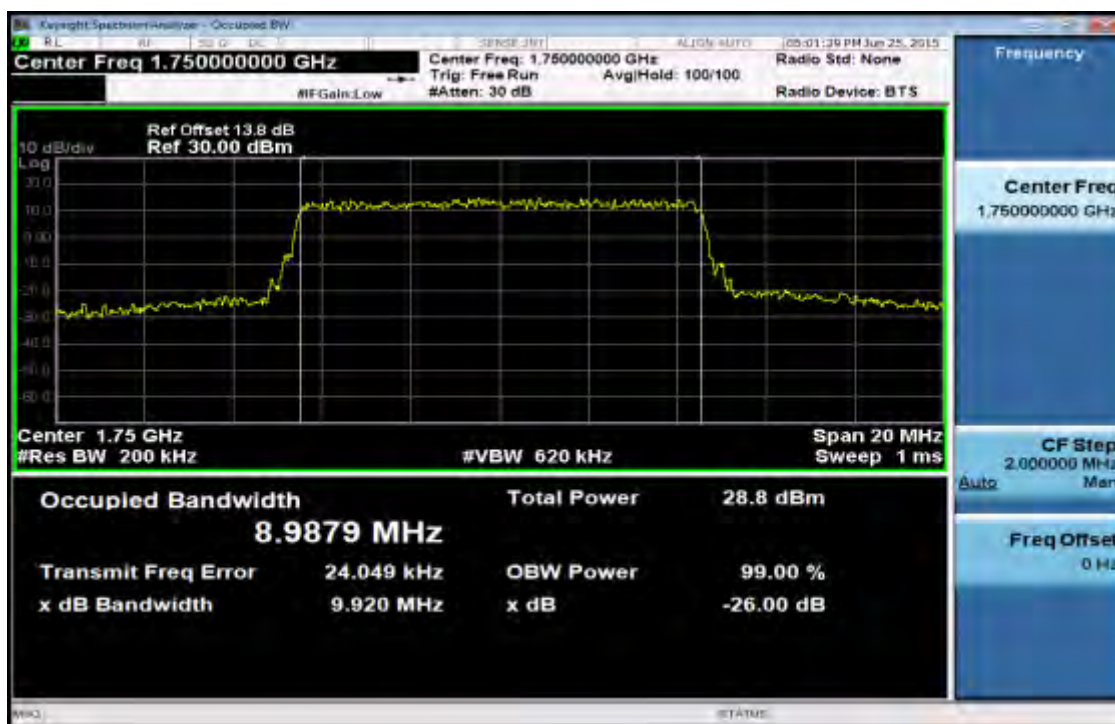
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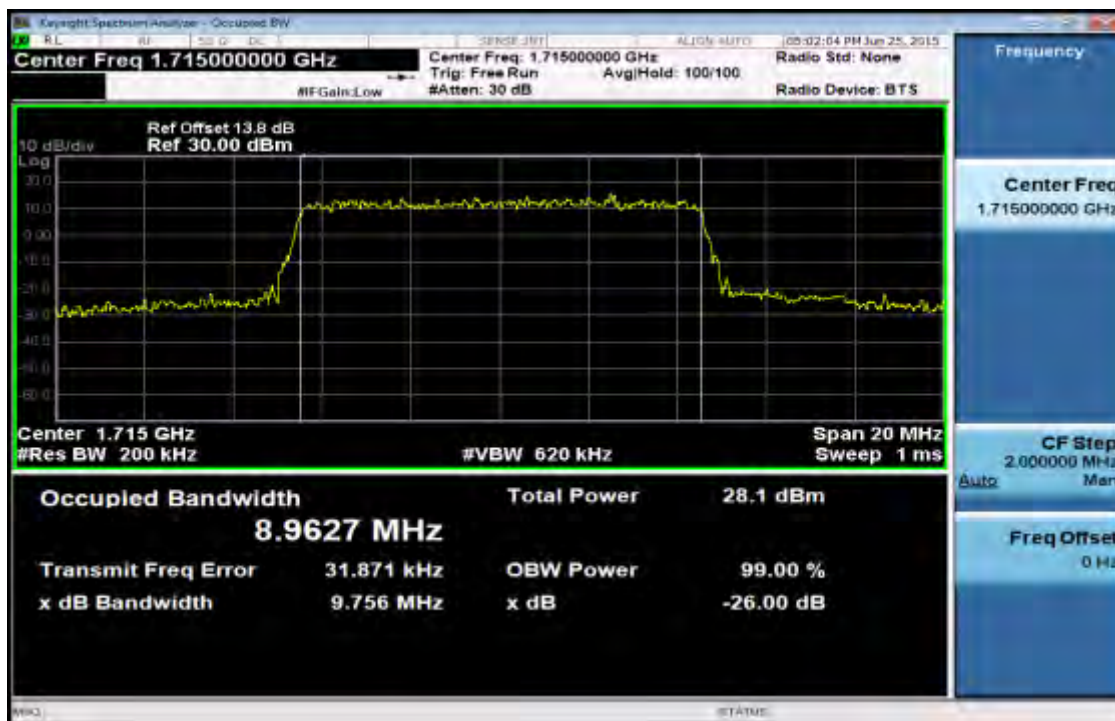
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10MHz BW LTE-Band 4 QPSK Channel High



10MHz BW LTE-Band 4 16QAM Channel Low



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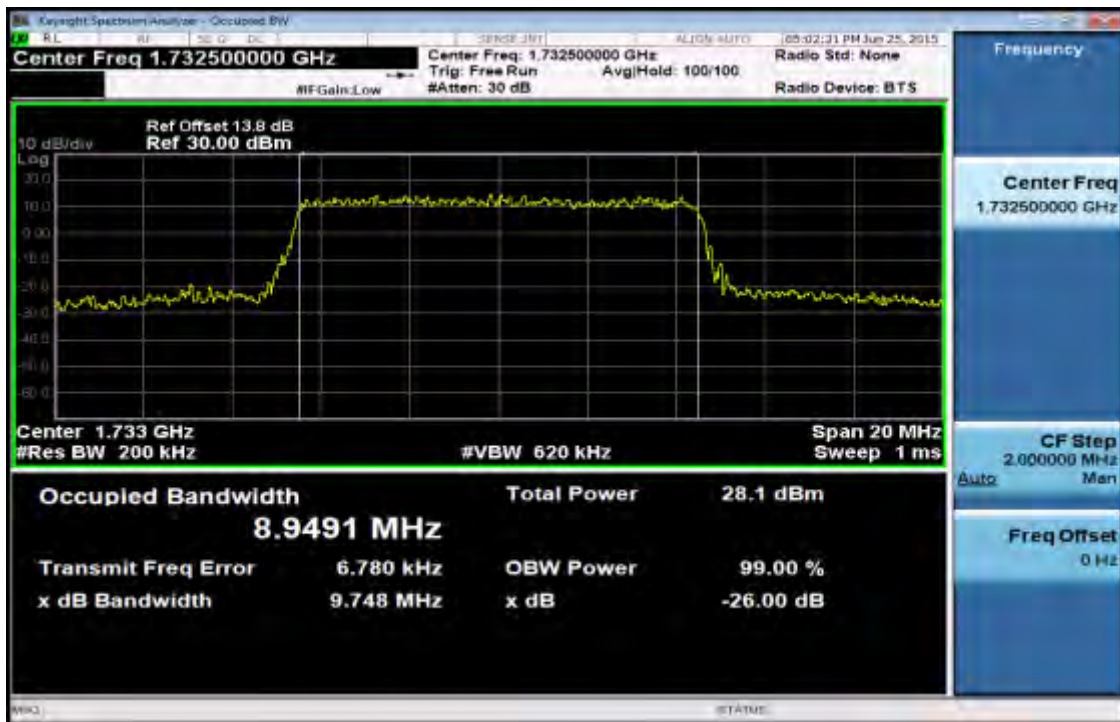
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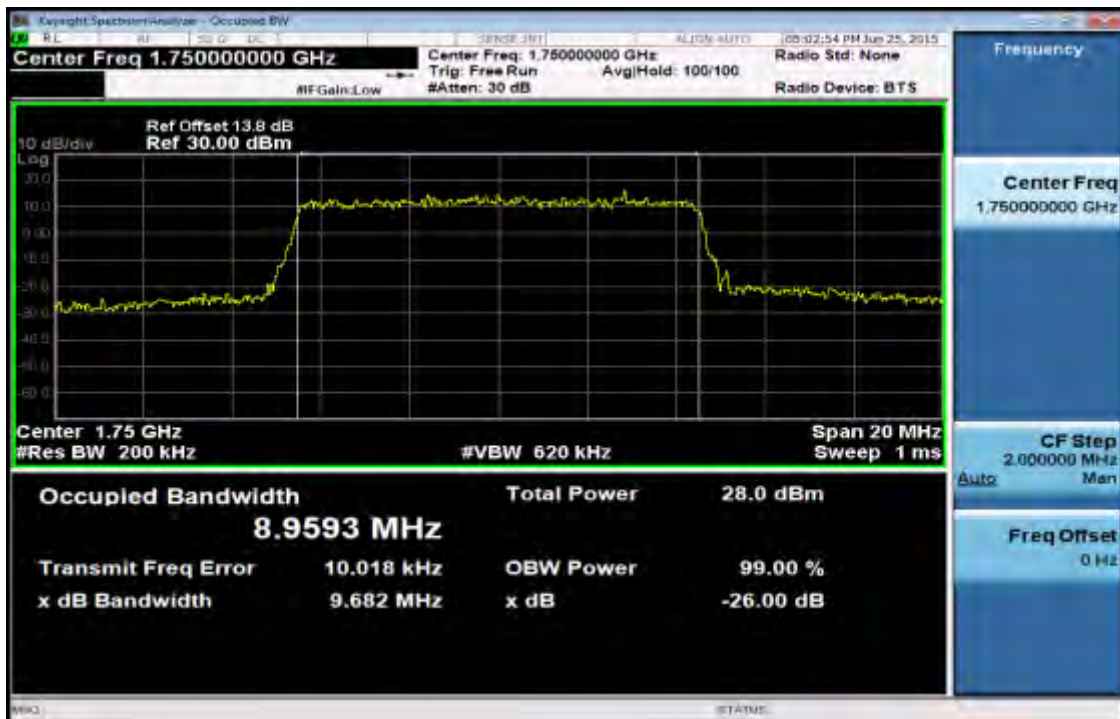
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10MHz BW LTE-Band 4 16QAM Channel Mid



10MHz BW LTE-Band 4 16QAM Channel High



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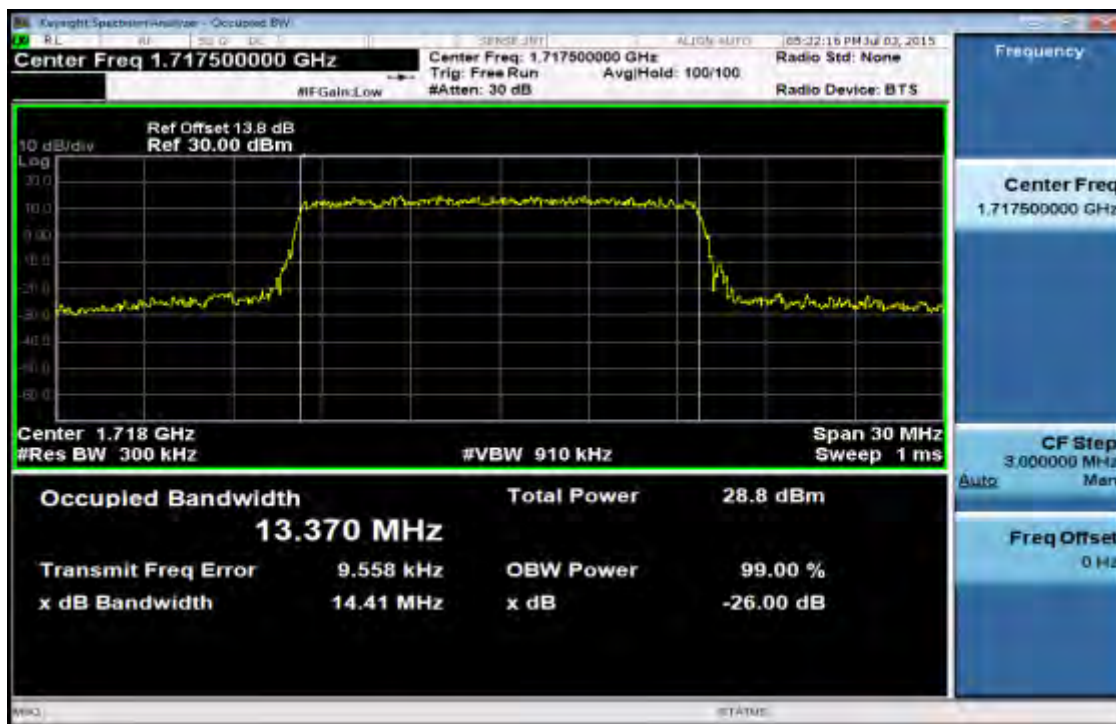
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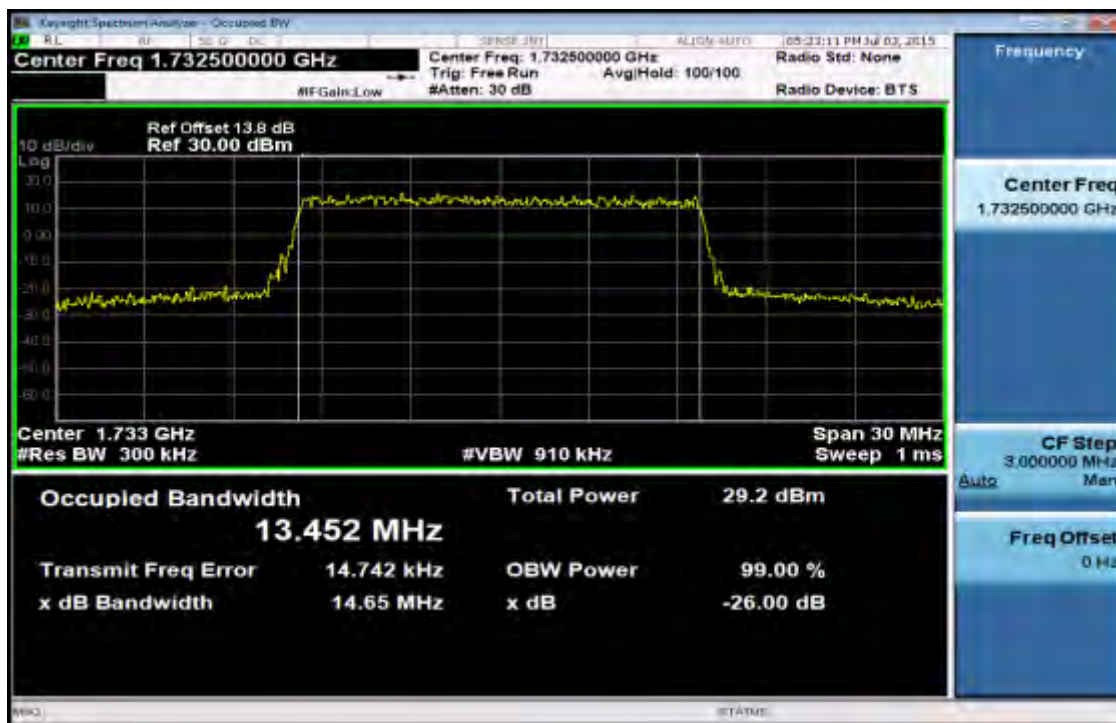
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15MHz BW LTE-Band 4 QPSK Channel Low



15MHz BW LTE-Band 4 QPSK Channel Mid



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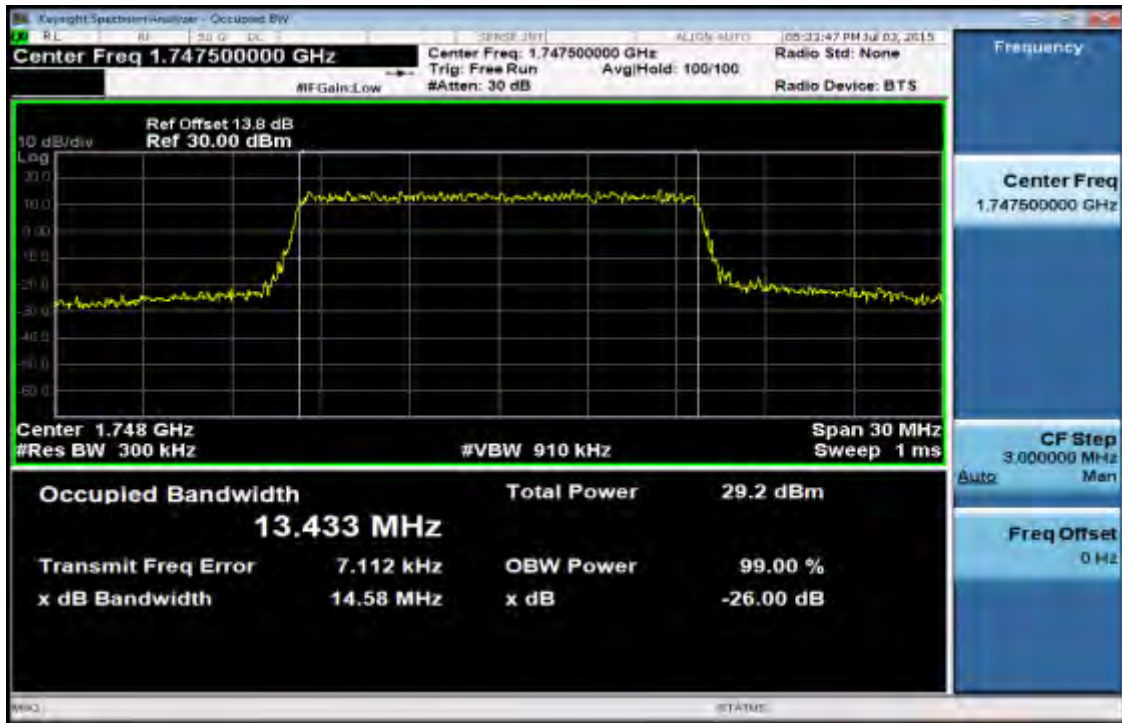
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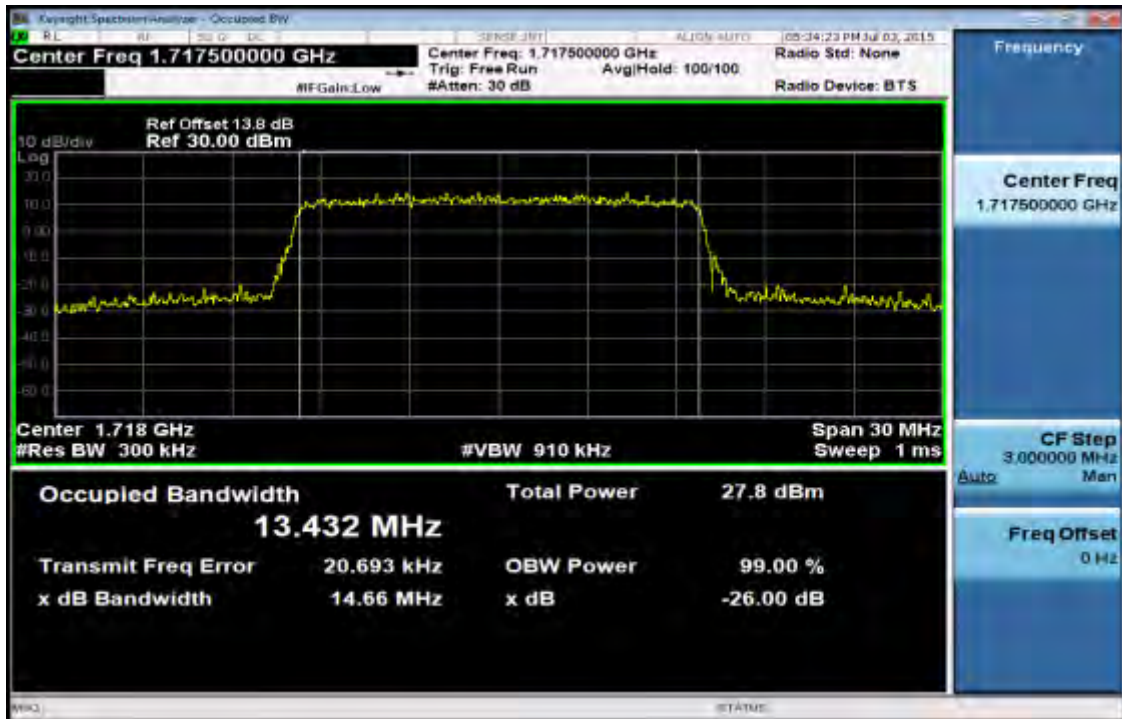
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15MHz BW LTE-Band 4 QPSK Channel High



15MHz BW LTE-Band 4 16QAM Channel Low



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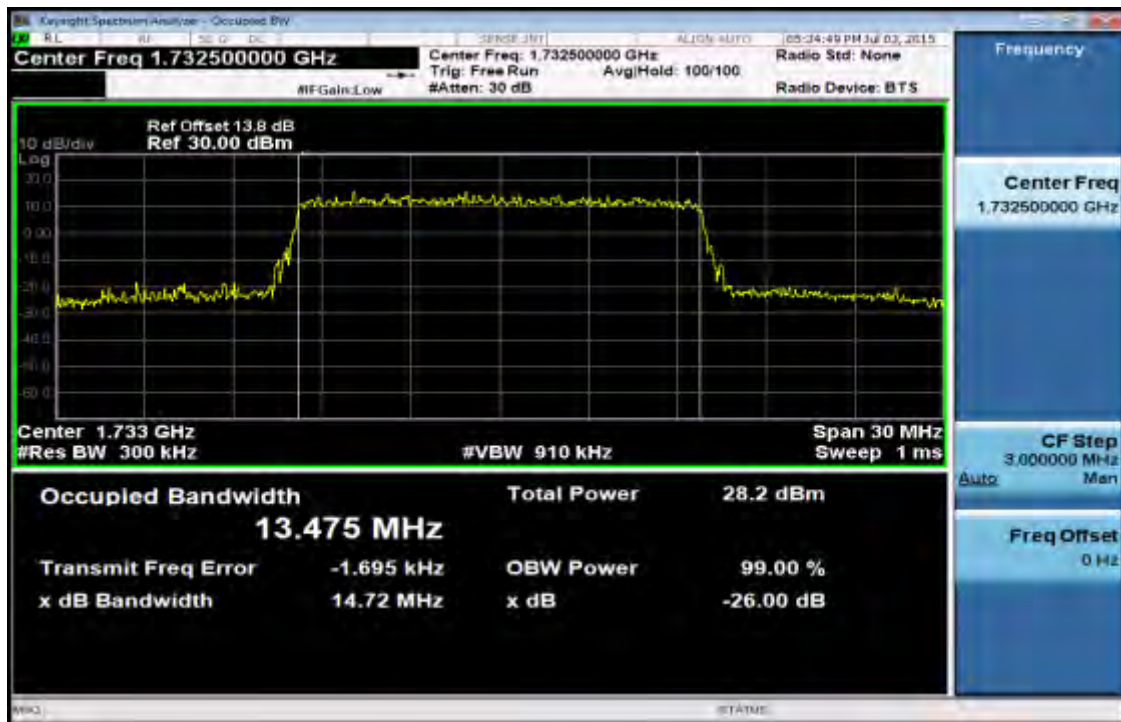
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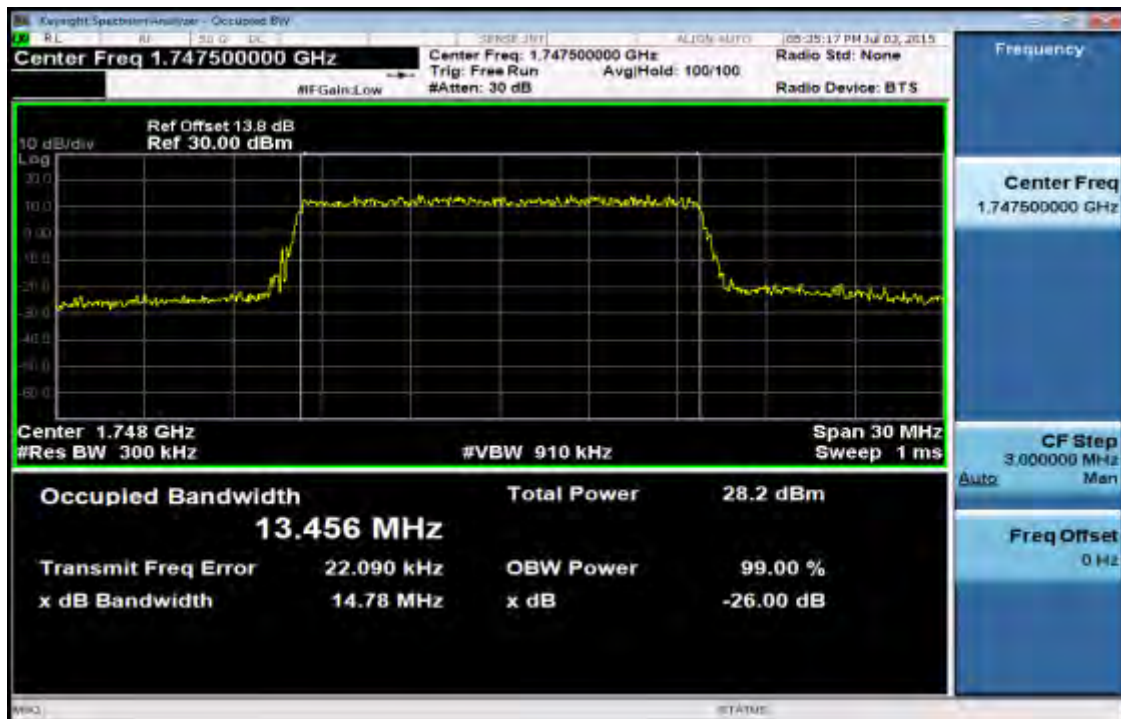
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15MHz BW LTE-Band 4 16QAM Channel Mid



15MHz BW LTE-Band 4 16QAM Channel High



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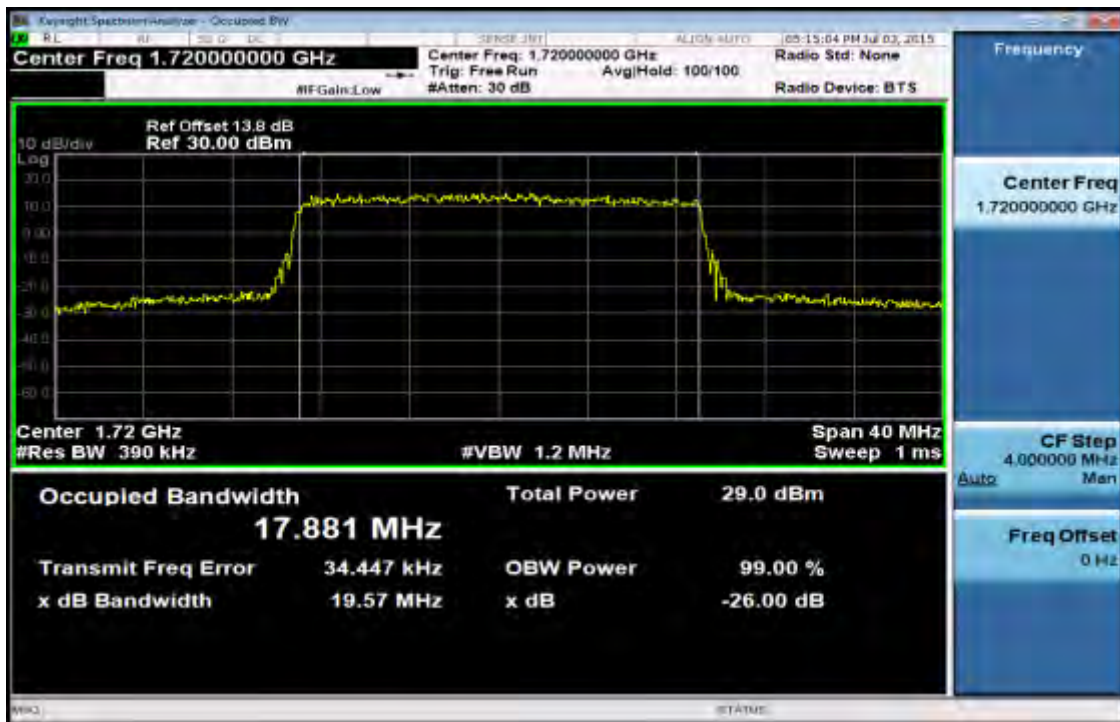
t (886-2) 2299-3279

f (886-2) 2298-0488

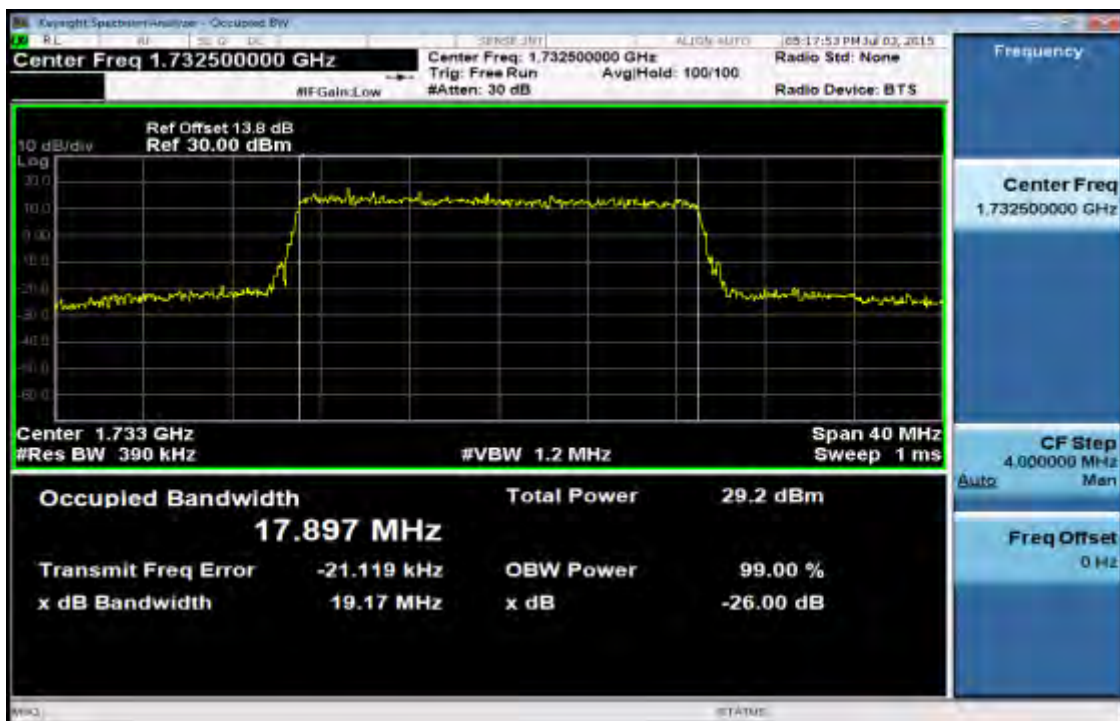
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20MHz BW LTE-Band 4 QPSK Channel Low



20MHz BW LTE-Band 4 QPSK Channel Mid



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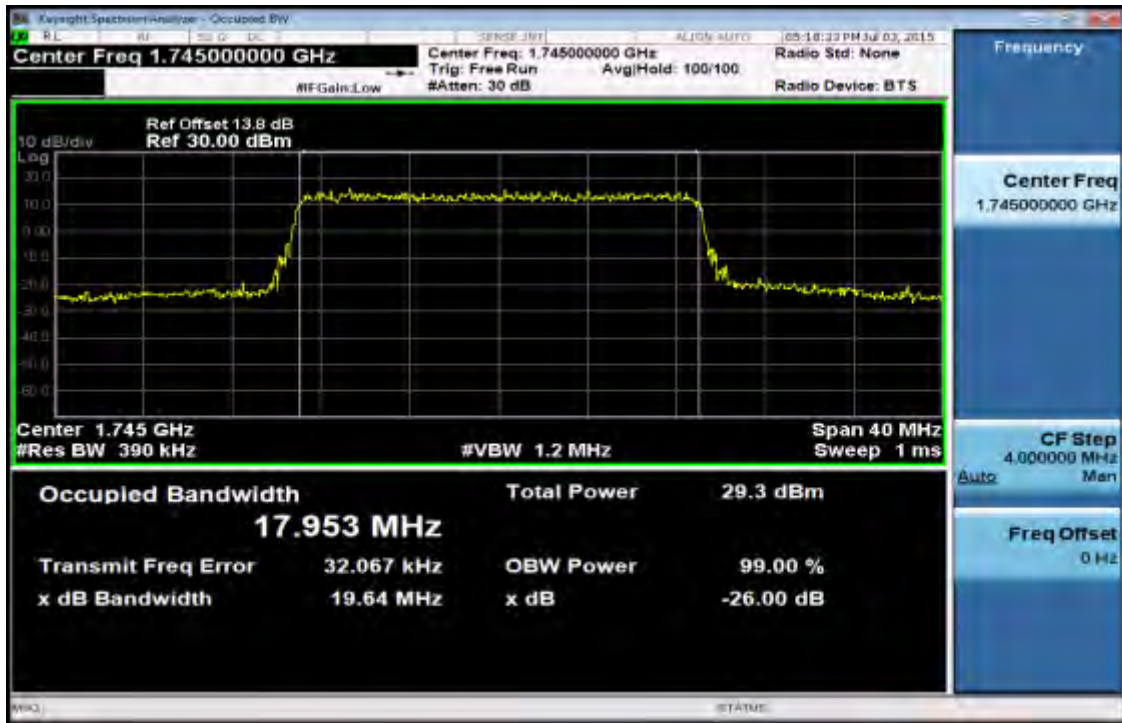
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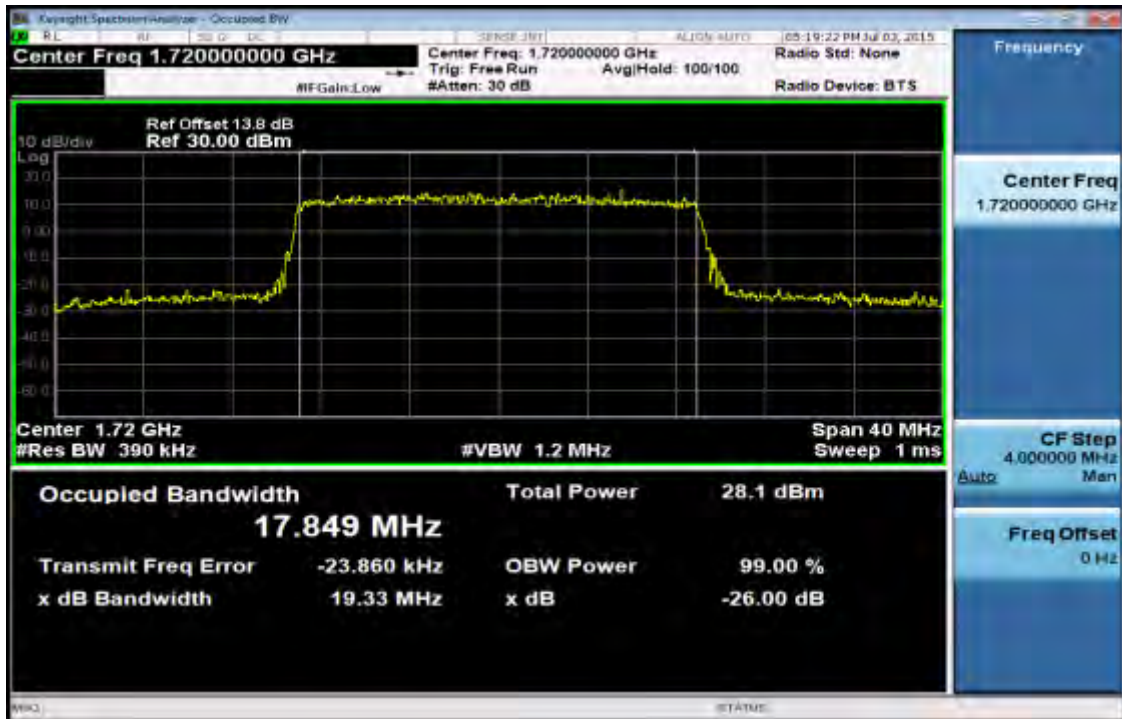
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20MHz BW LTE-Band 4 QPSK Channel High



20MHz BW LTE-Band 4 16QAM Channel Low



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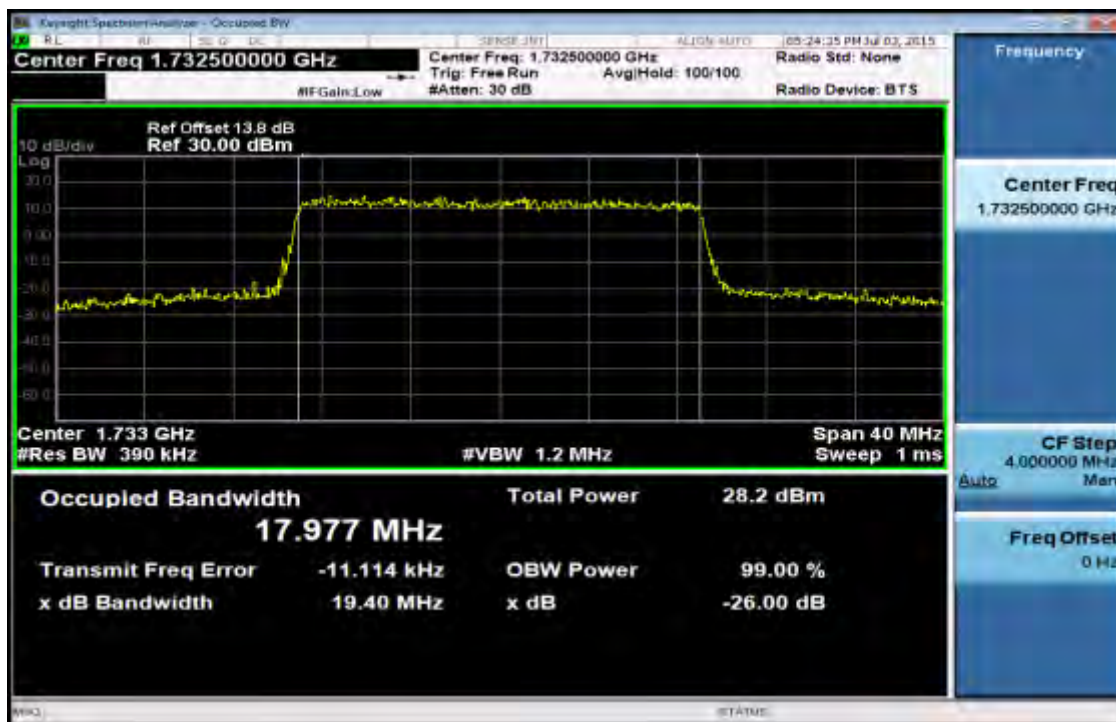
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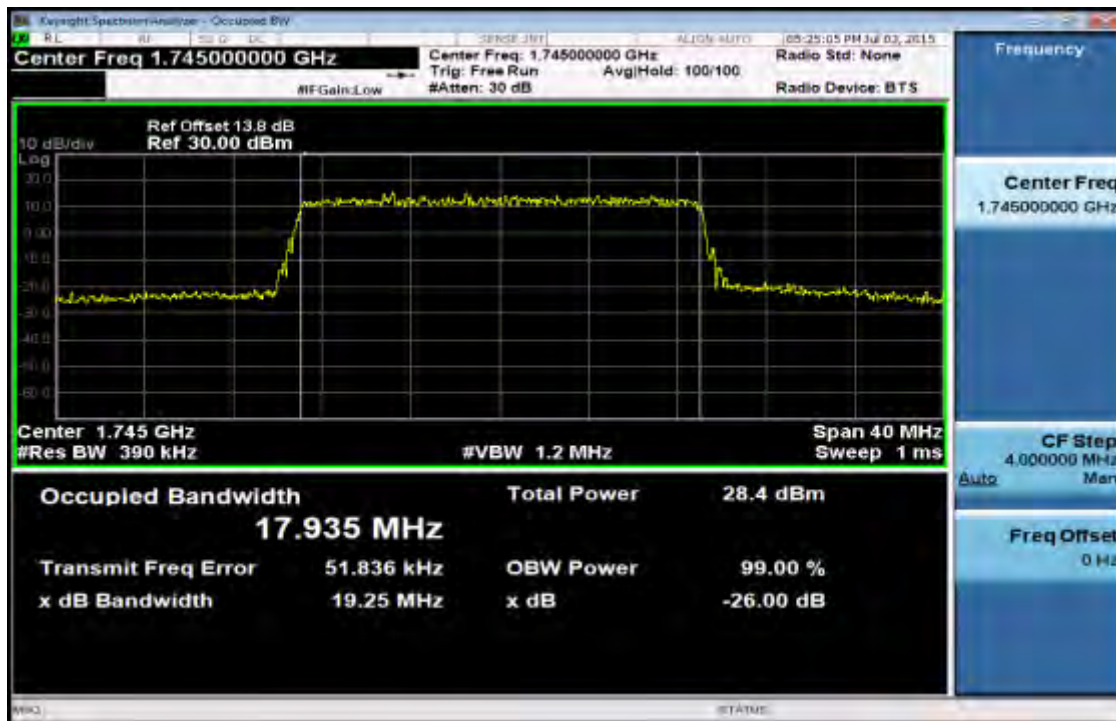
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20MHz BW LTE-Band 4 16QAM Channel Mid



20MHz BW LTE-Band 4 16QAM Channel High



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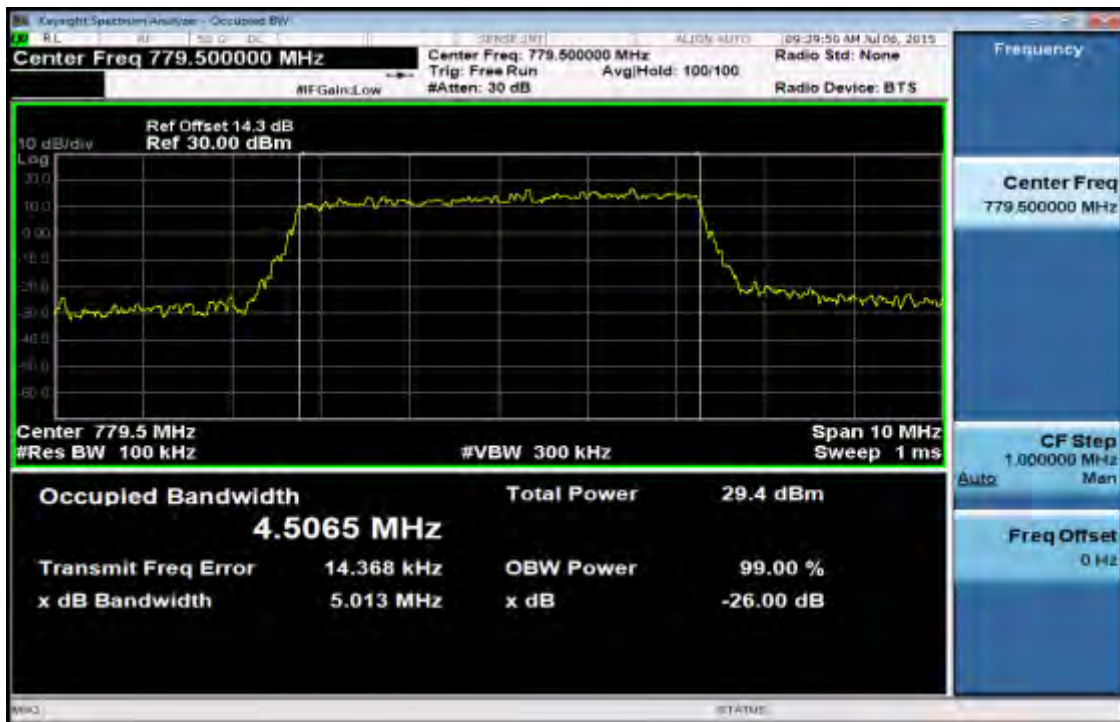
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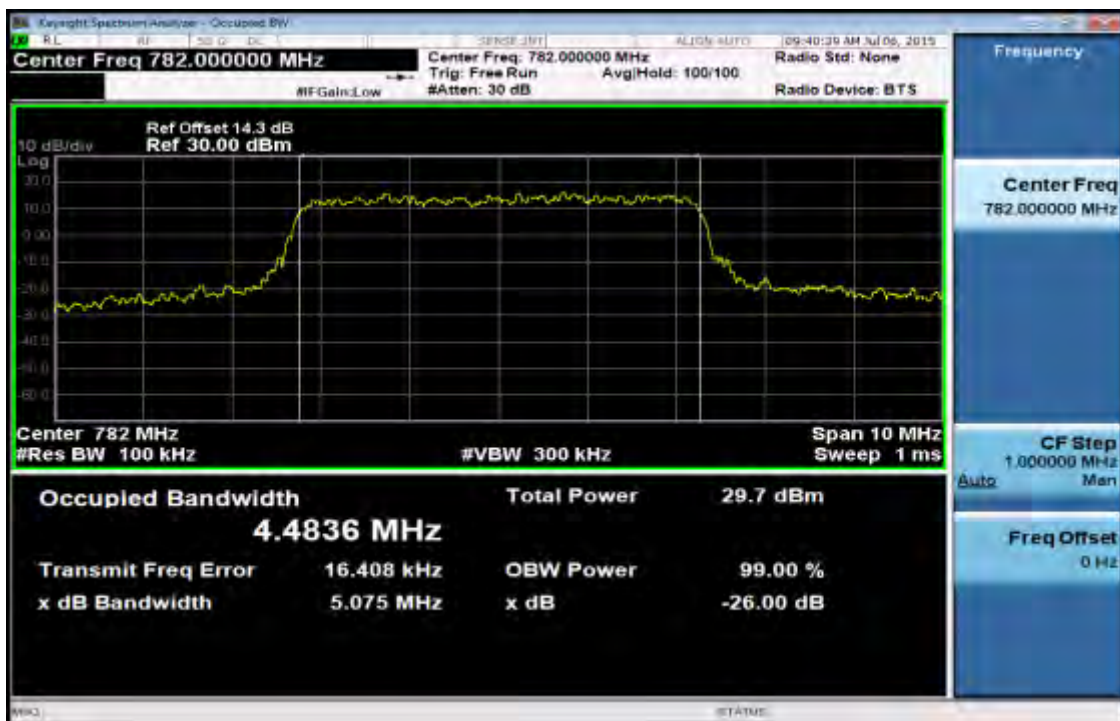
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5MHz BW LTE-Band 13 QPSK Channel Low



5MHz BW LTE-Band 13 QPSK Channel Mid



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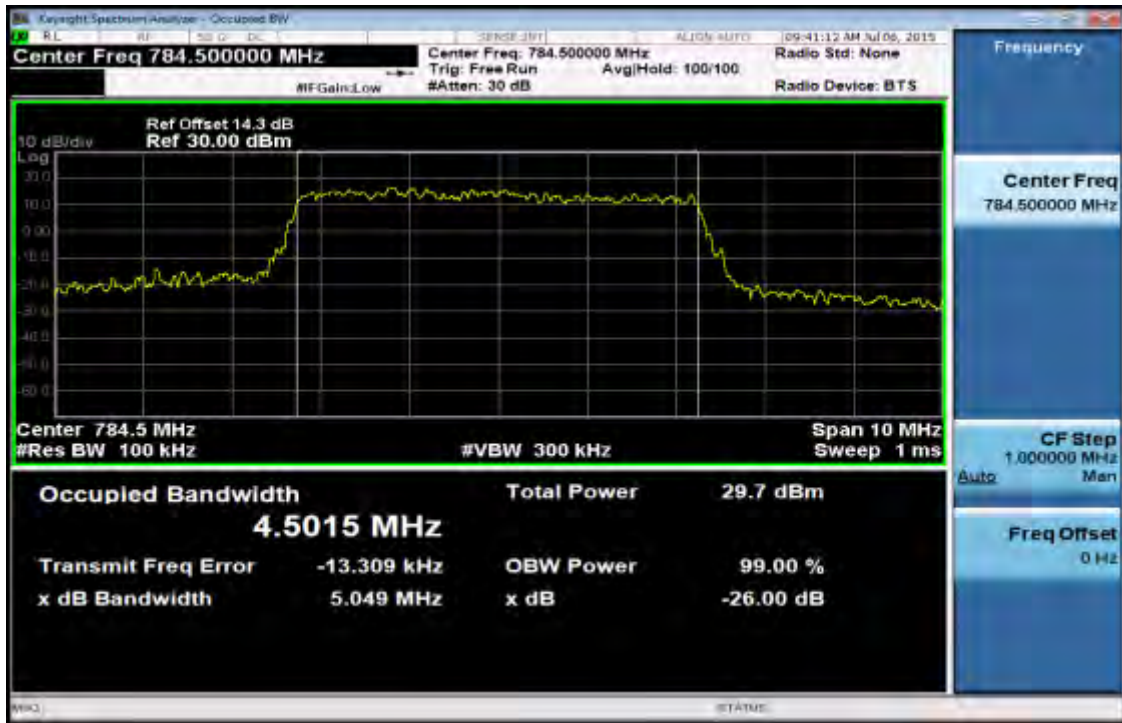
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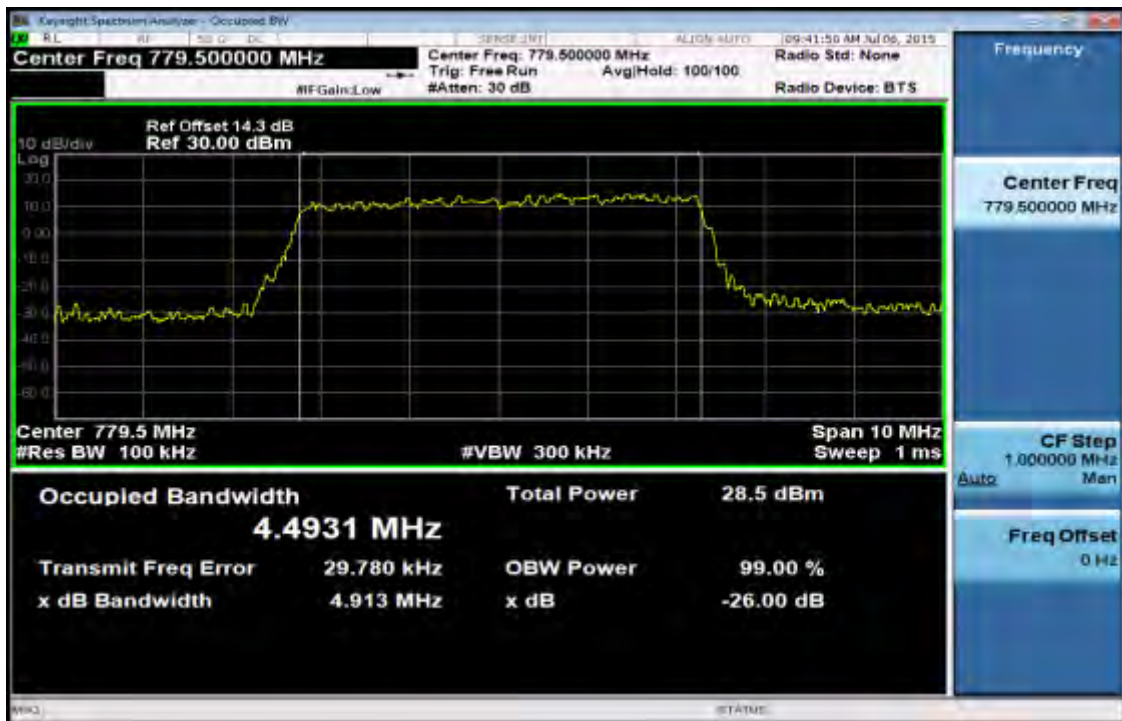
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5MHz BW LTE-Band 13 QPSK Channel High



5MHz BW LTE-Band 13 16QAM Channel Low



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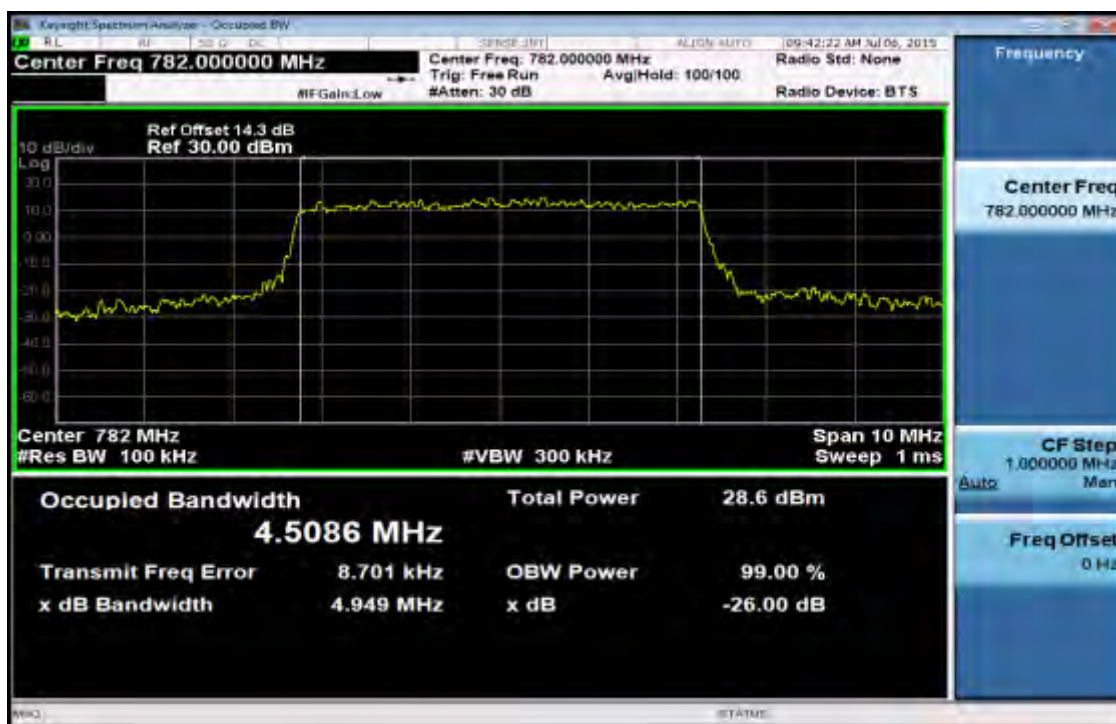
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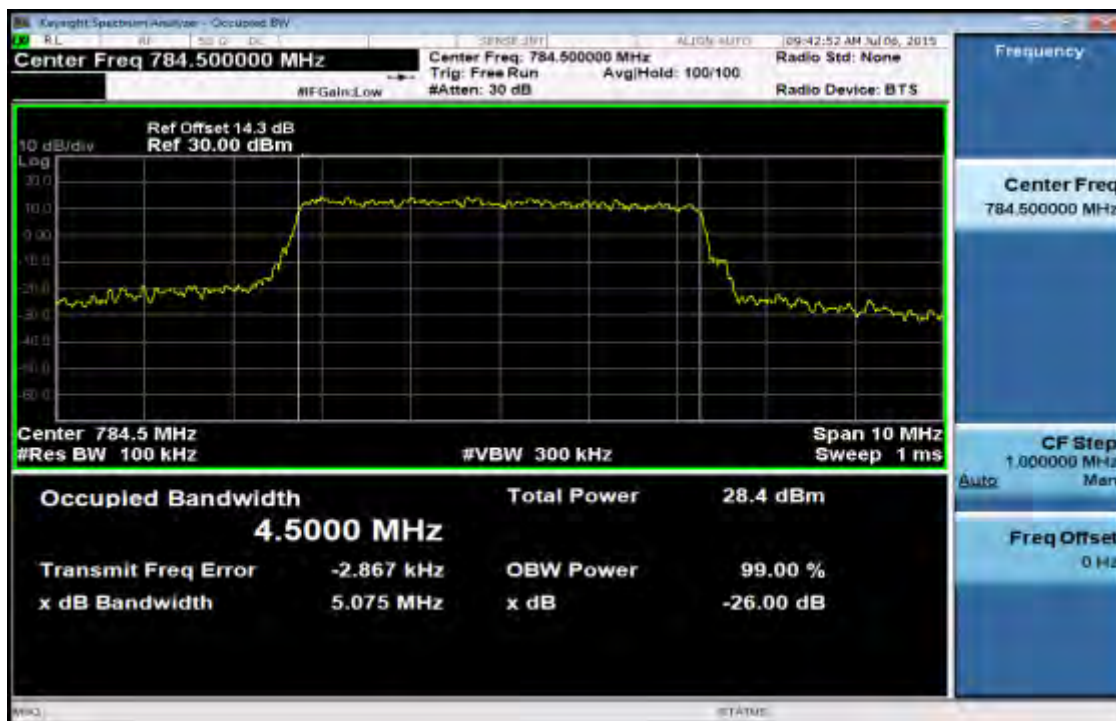
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5MHz BW LTE-Band 13 16QAM Channel Mid



5MHz BW LTE-Band 13 16QAM Channel High



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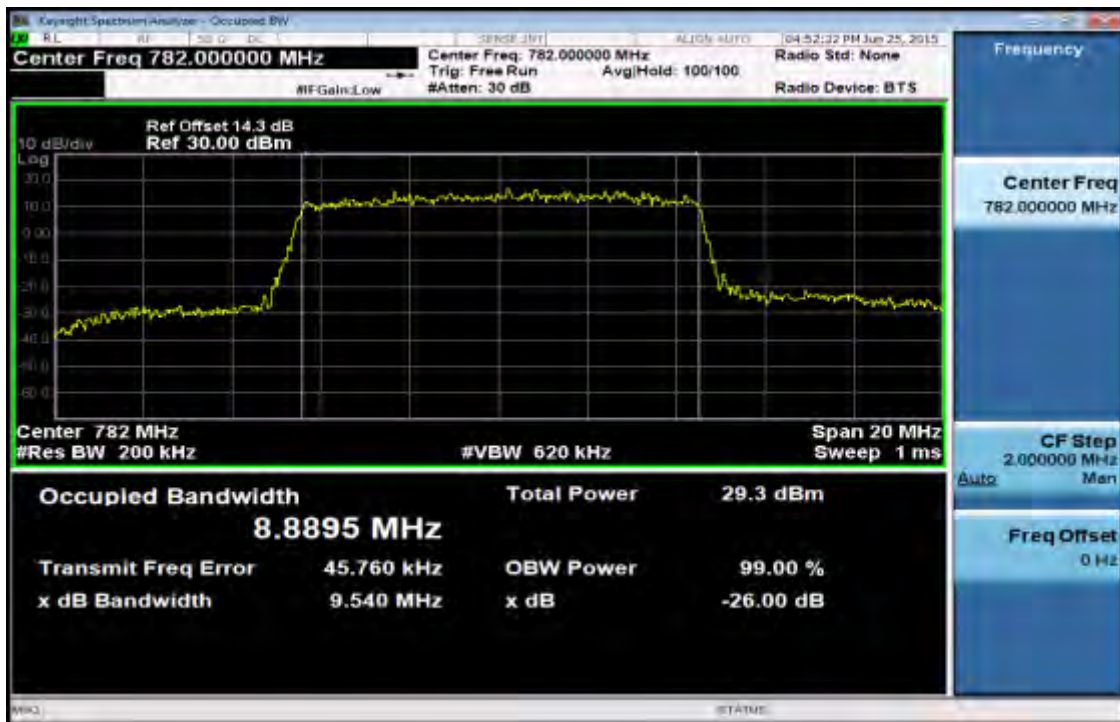
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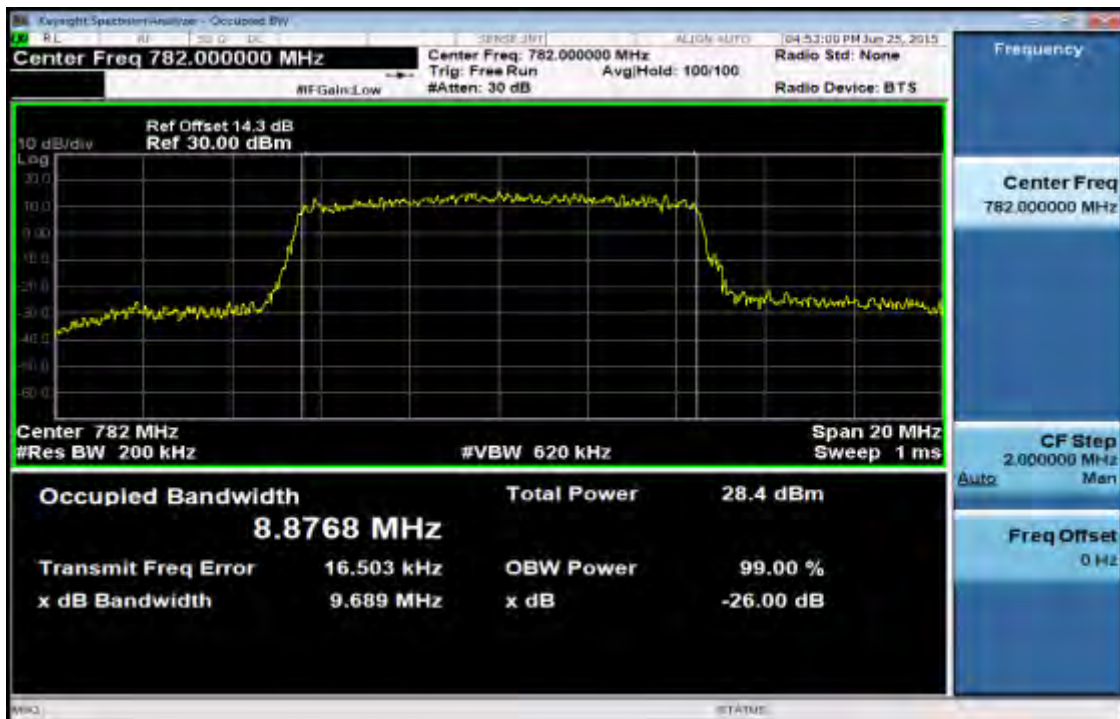
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10MHz BW LTE-Band 13 QPSK Channel Mid



10MHz BW LTE-Band 13 16QAM Channel Mid



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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;

Band Edge Measurement:

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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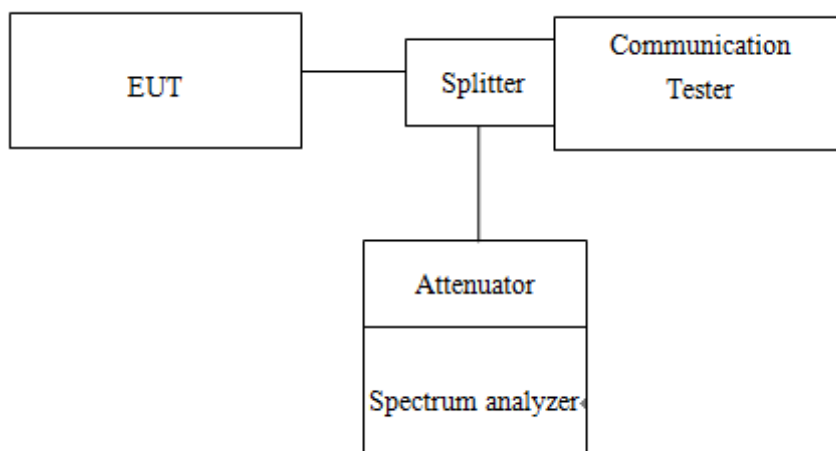
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9.2. Test SET-UP



9.3. Measurement Procedure

Conducted Emission

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

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

Band Edge

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

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9.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	10/15/2014	10/14/2015
Communication Tester	Anritsu	MT8820C	6201107337	05/27/2015	05/26/2016
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/19/2014	12/18/2015
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/18/2015	06/17/2016
DC Block	PASTERNAK	PE8210	RF29	12/19/2014	12/18/2015
Splitter	RF-LAMBDA	RFLT2W1G18G	RF35	12/19/2014	12/18/2015
Attenuator	WOKEN	218FS-10	RF23	12/19/2014	12/18/2015
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2015	05/03/2016

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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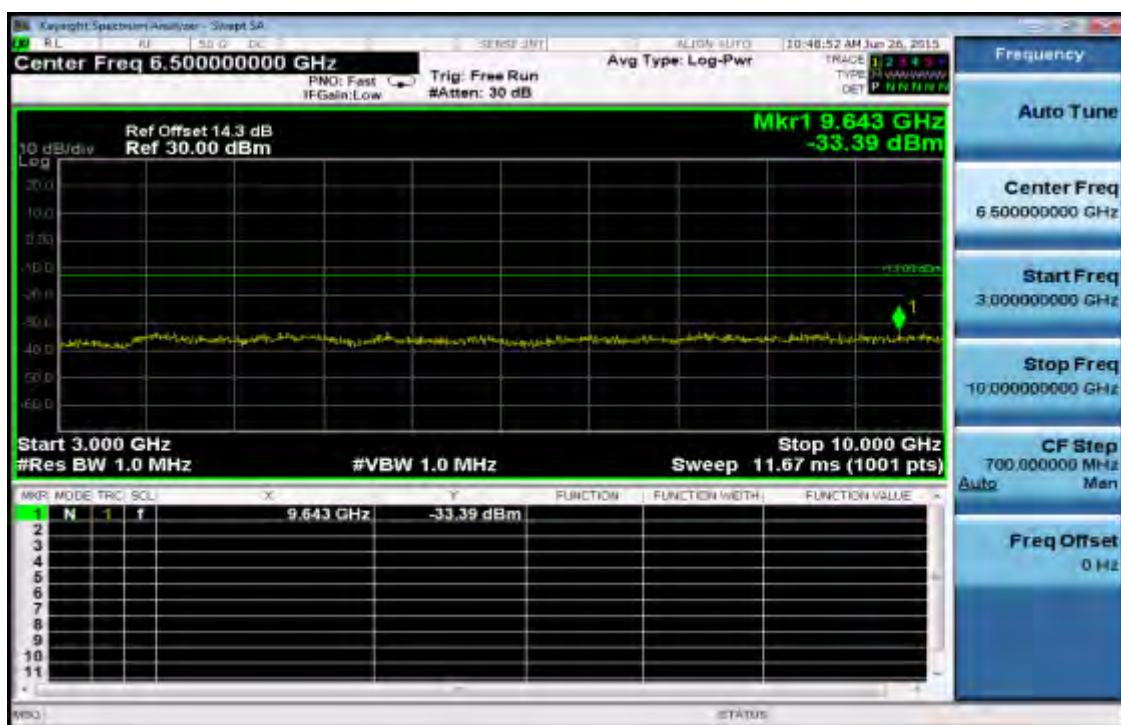
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Out of Band emission at antenna terminals – CDMA BC0 Channel Lowest



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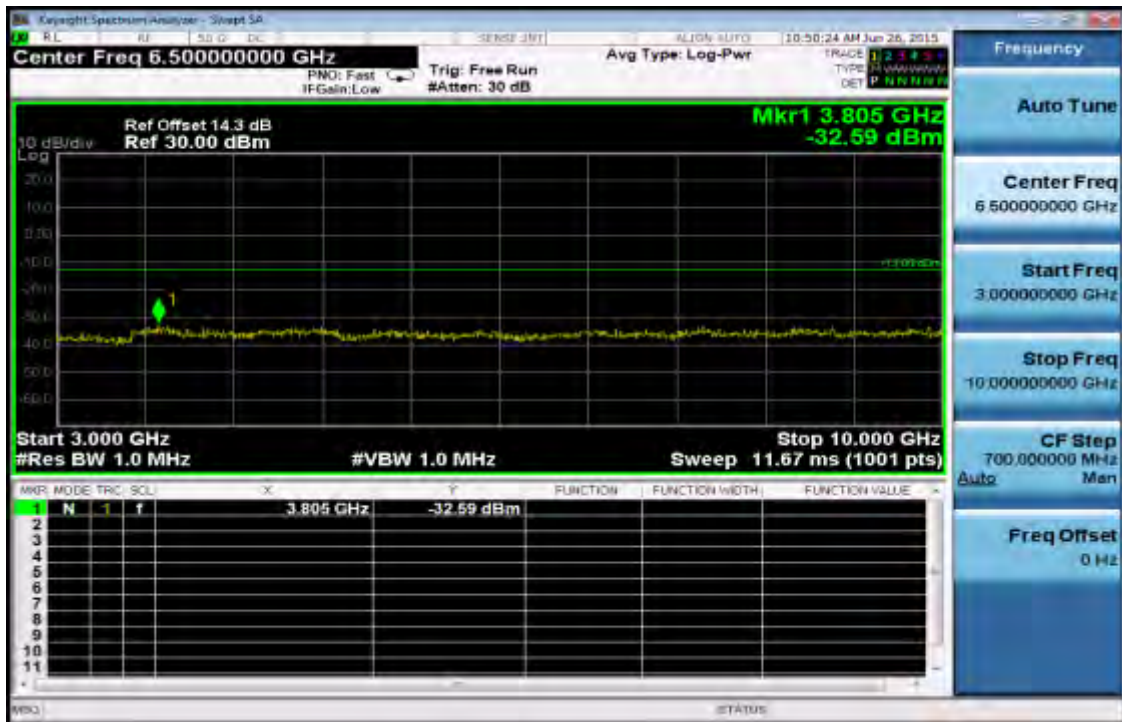
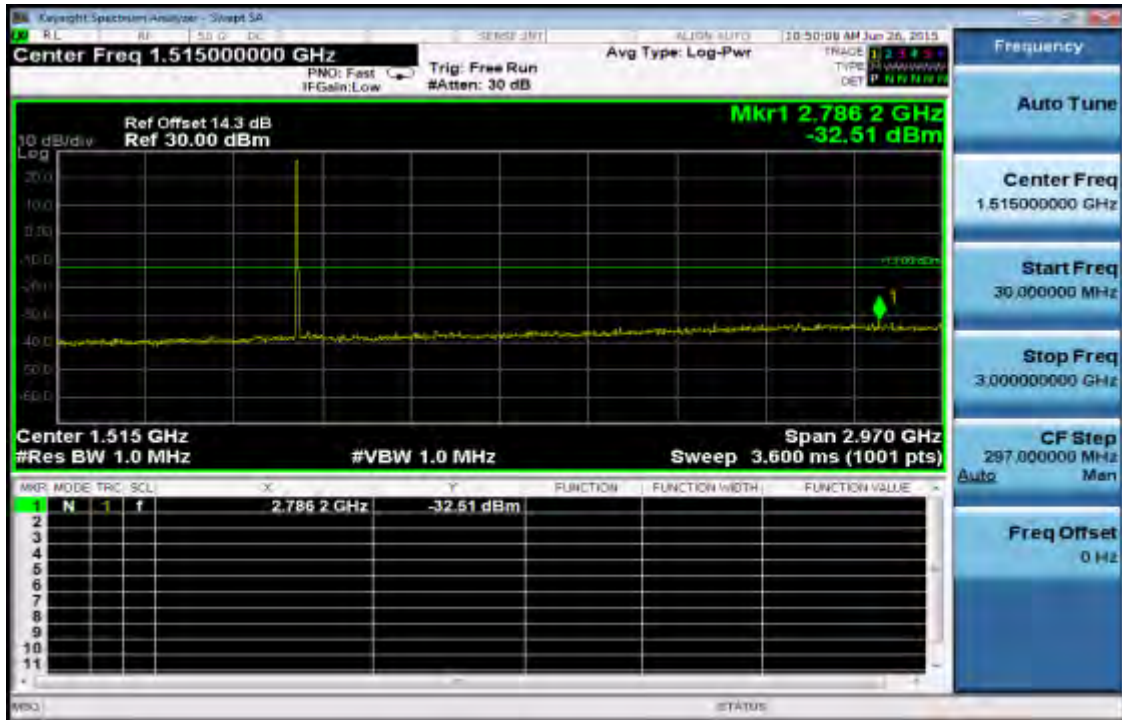
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Out of Band emission at antenna terminals – CDMA BC0 Channel Mid



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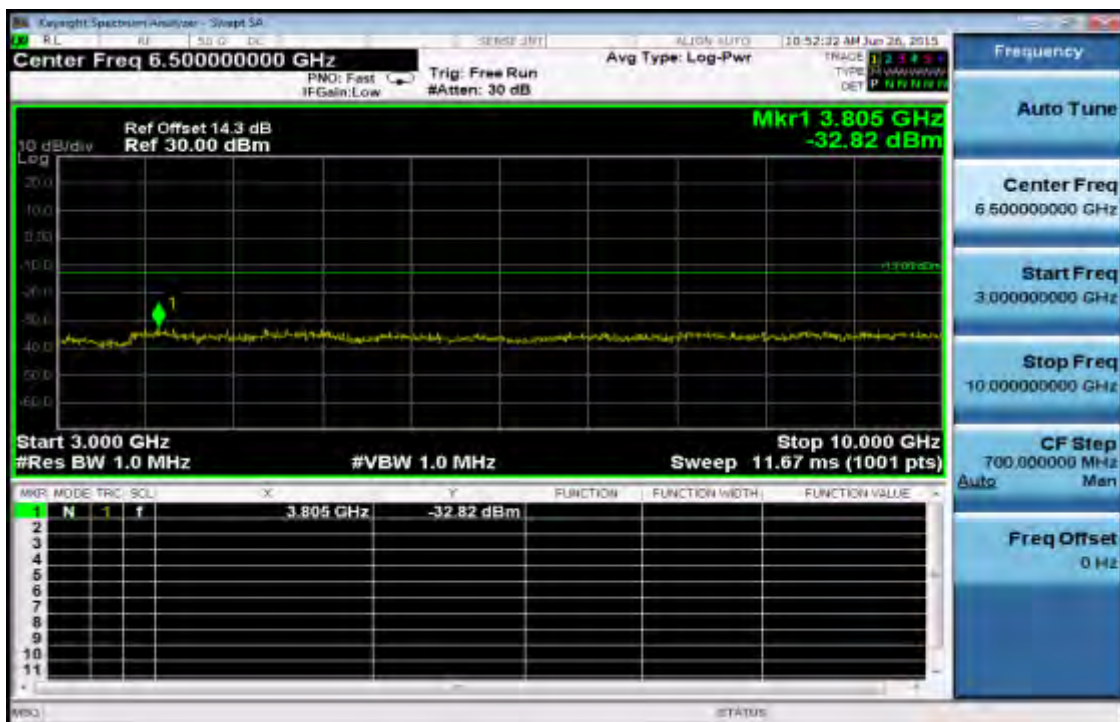
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Out of Band emission at antenna terminals – CDMA BC0 Channel Highest



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Band edge emission at antenna terminals – CDMA BC0 Channel Lowest



Band edge emission at antenna terminals – CDMA BC0 Channel Highest



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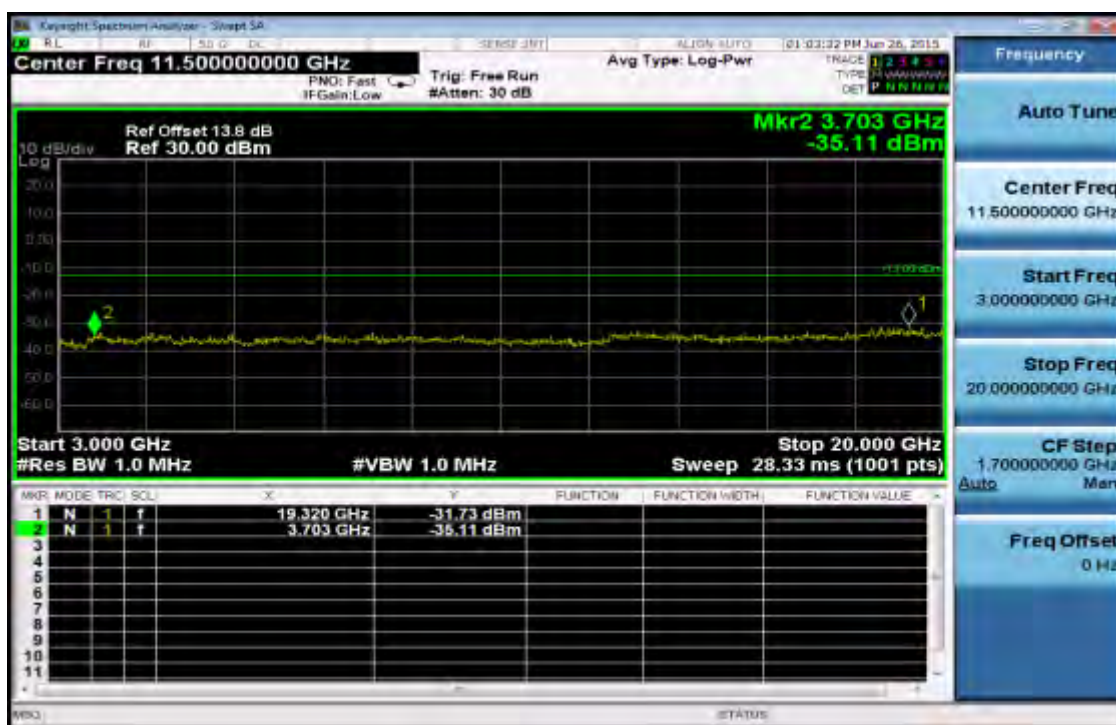
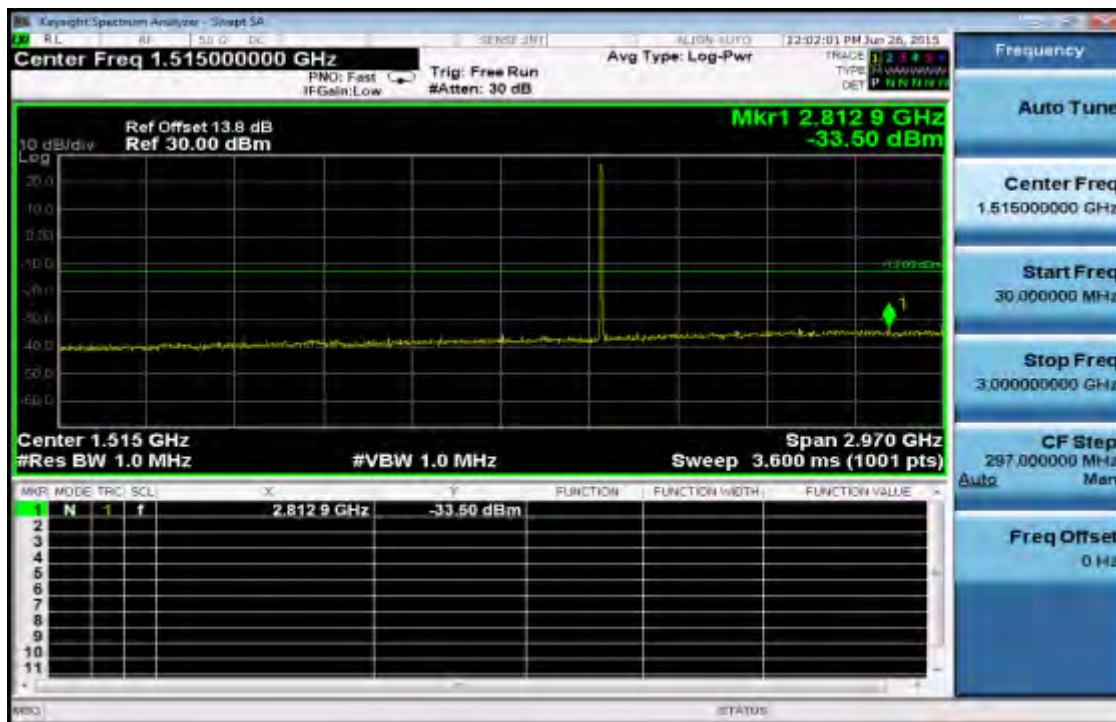
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Out of Band emission at antenna terminals – CDMA BC1 Channel Lowest



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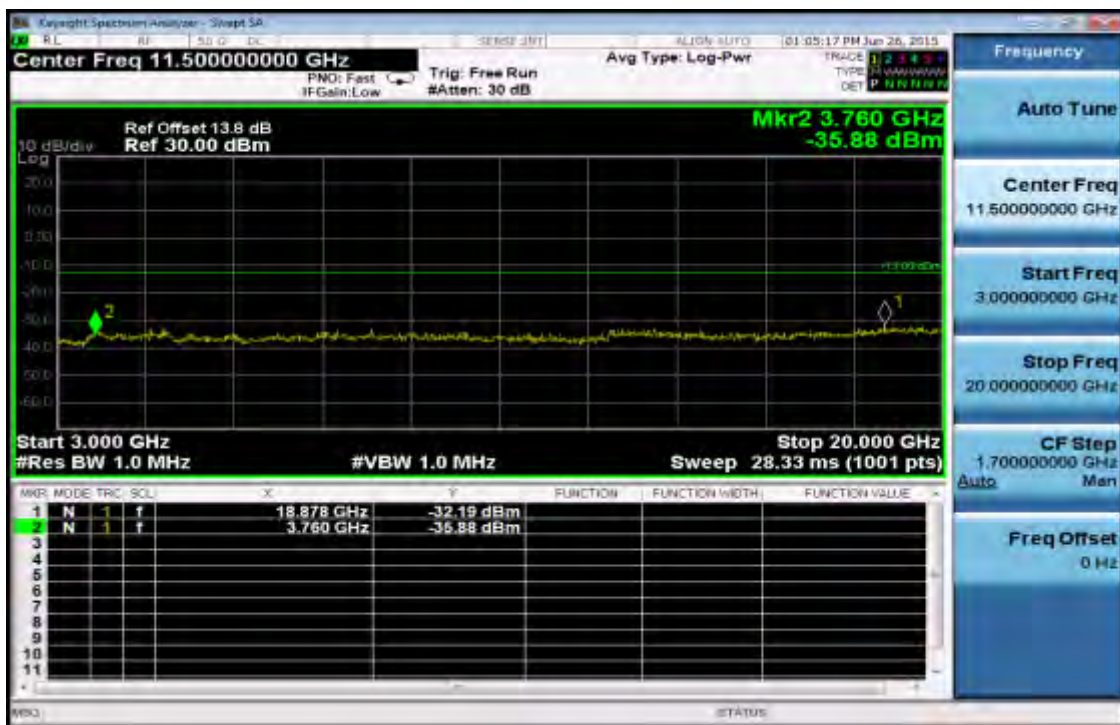
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Out of Band emission at antenna terminals – CDMA BC1 Channel Mid



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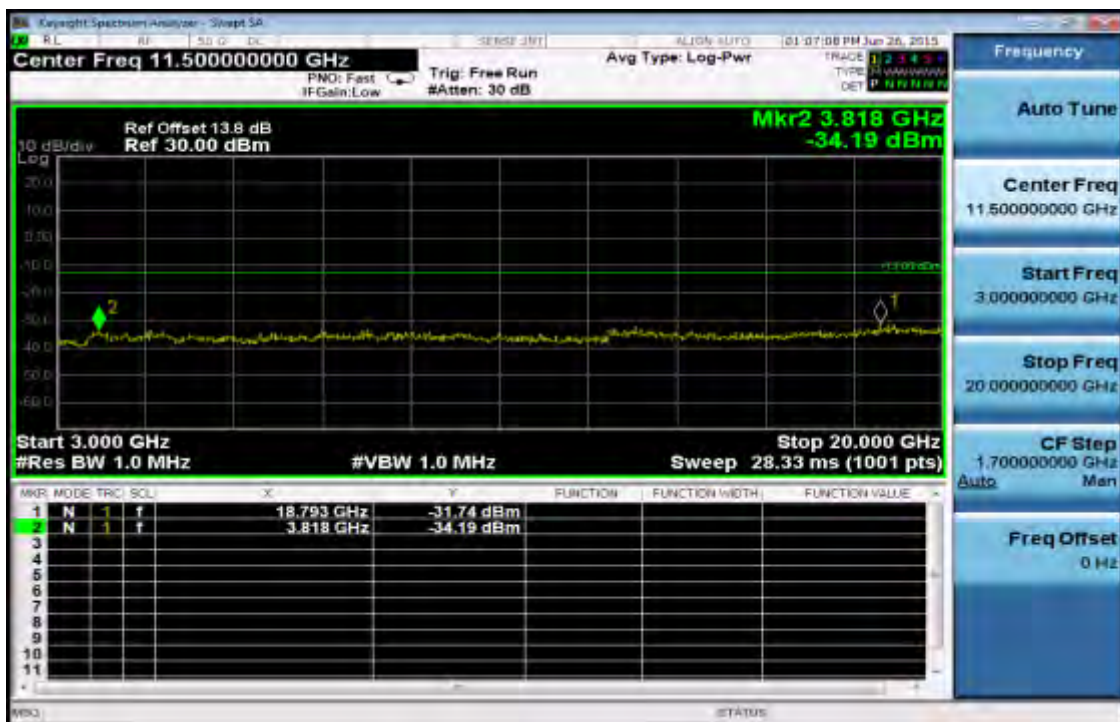
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Out of Band emission at antenna terminals – CDMA BC1 Channel Highest



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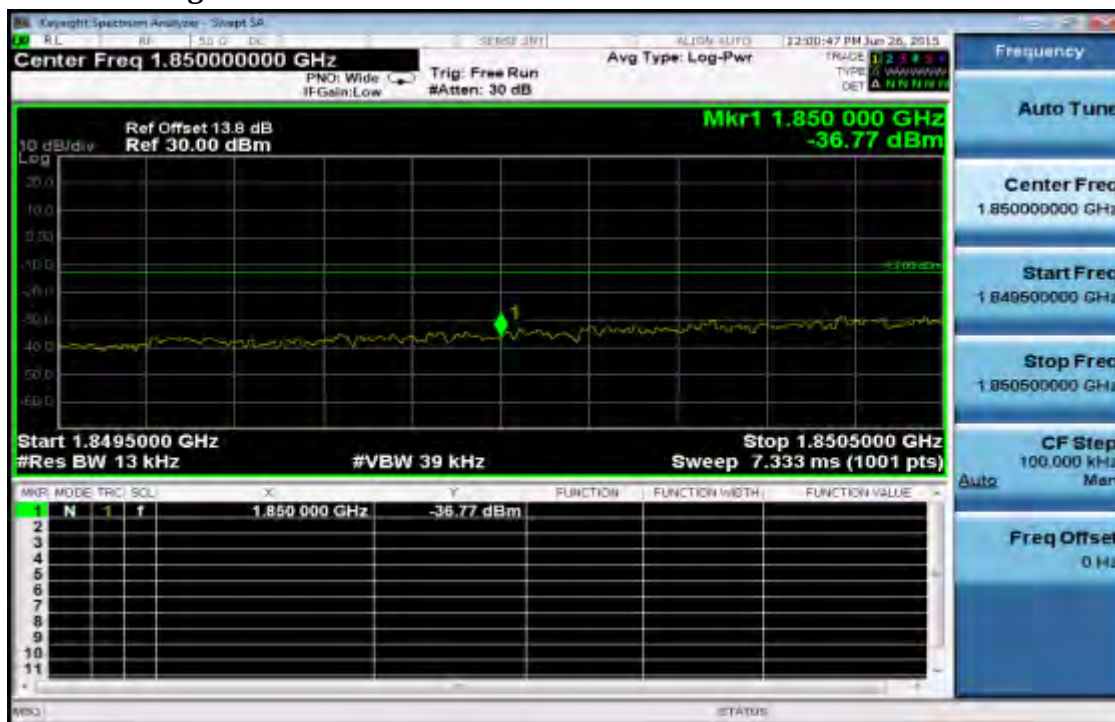
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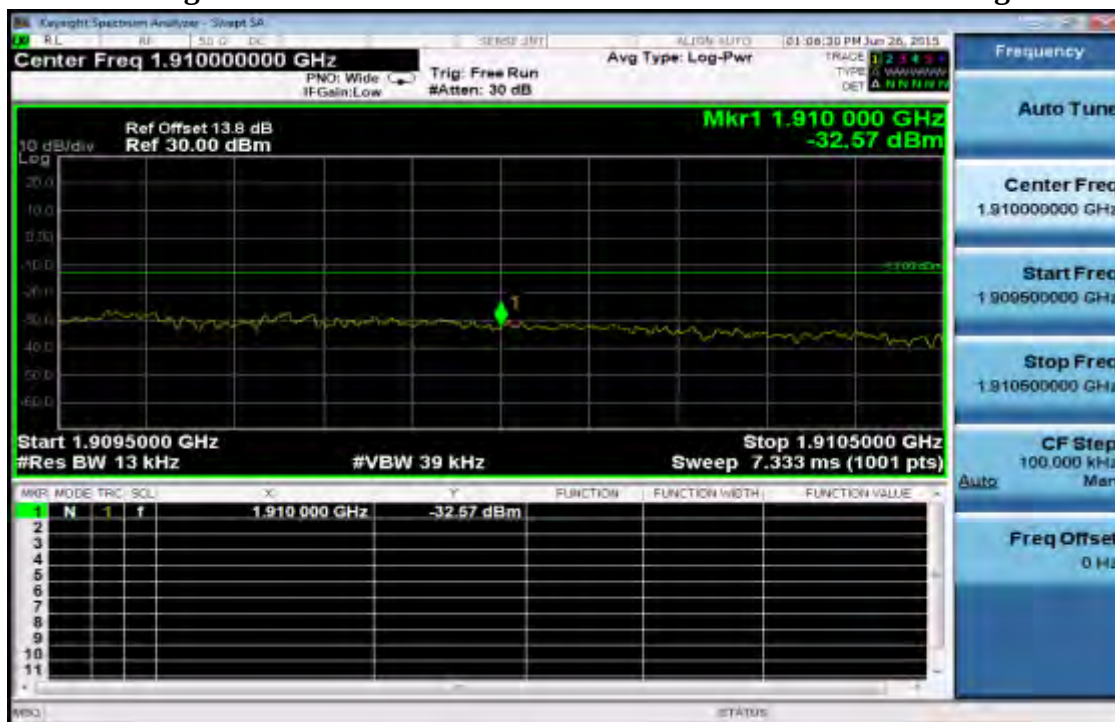
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Band edge emission at antenna terminals – CDMA BC1 Channel Lowest



Band edge emission at antenna terminals – CDMA BC1 Channel Highest



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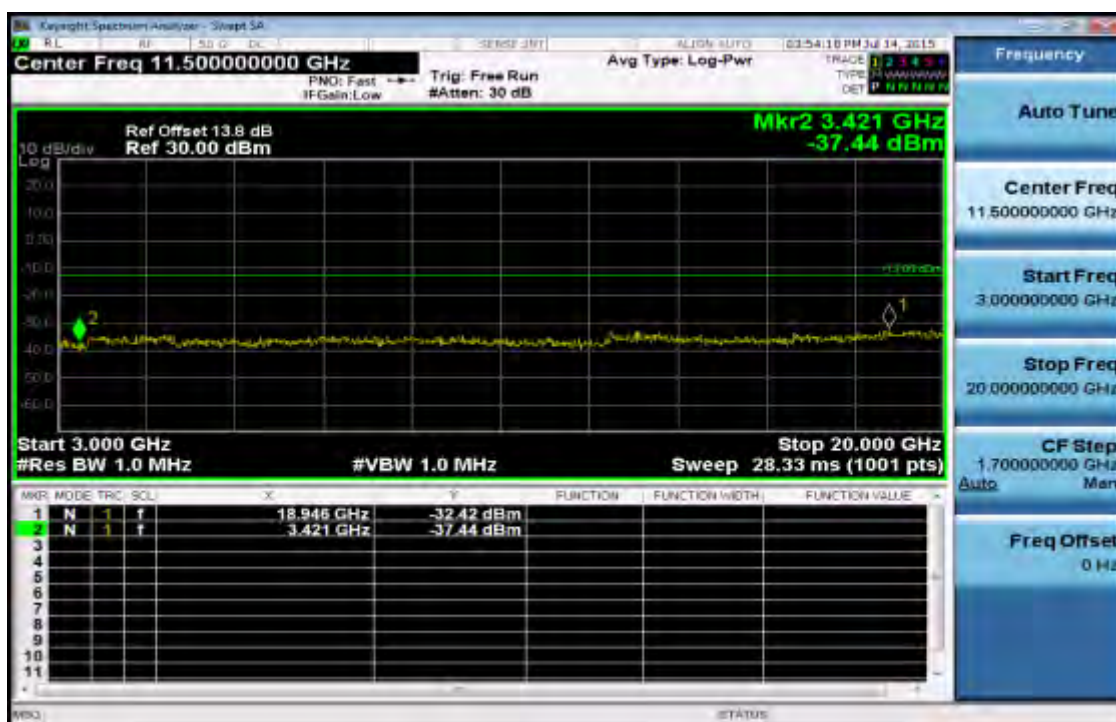
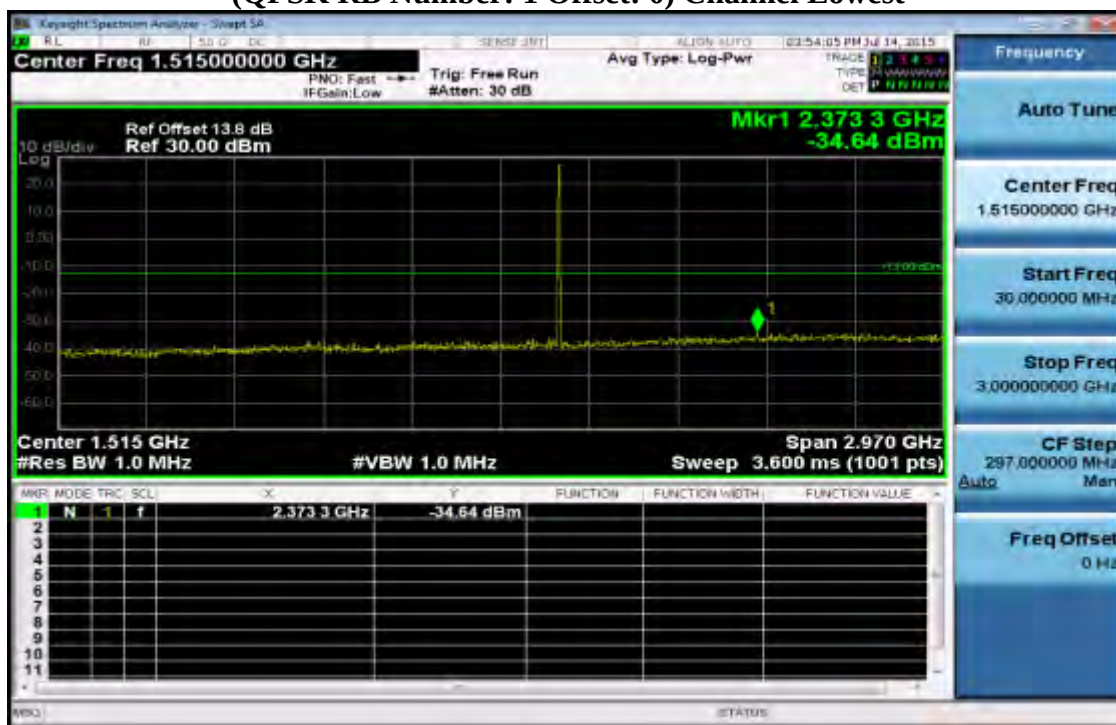
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Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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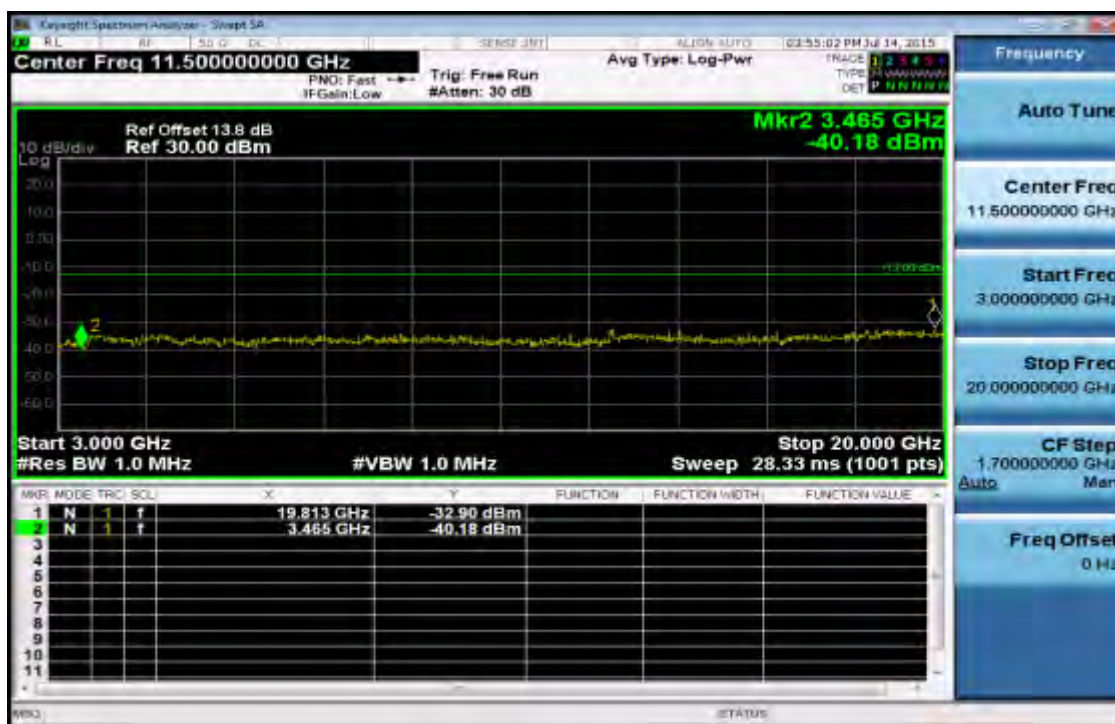
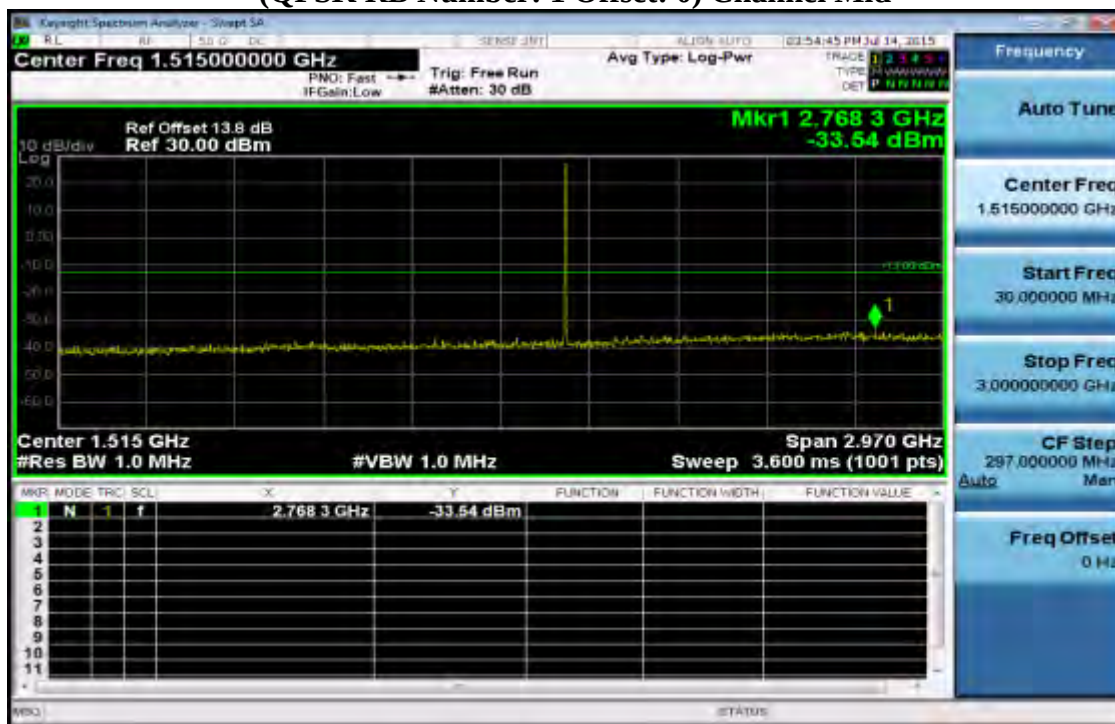
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Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid



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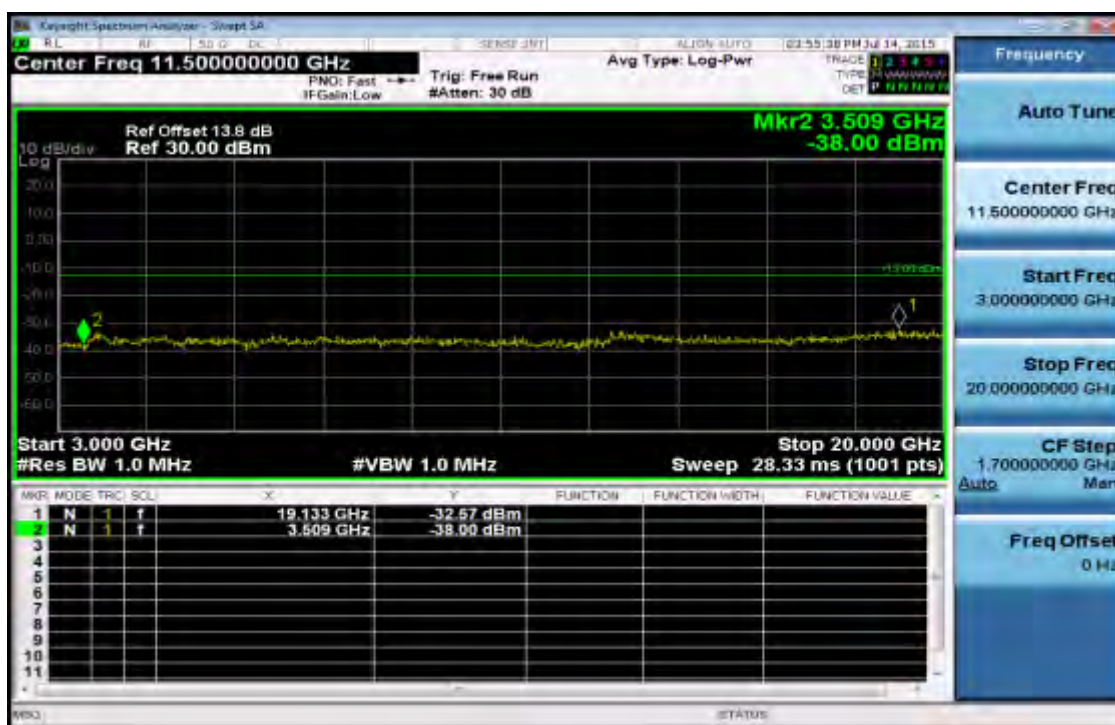
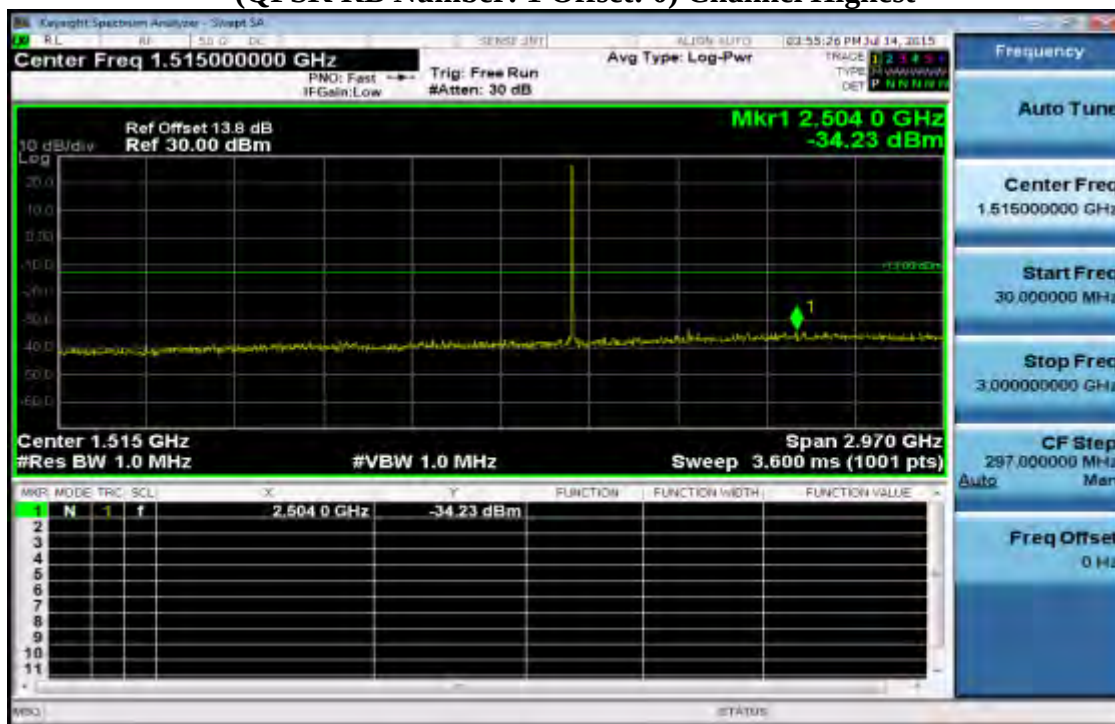
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Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest



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Band edge emission at antenna terminals –1.4MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –1.4MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 5) Channel Highest



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Band edge emission at antenna terminals –1.4MHz BW LTE-Band 4
(QPSK RB Number: 6 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –1.4MHz BW LTE-Band 4
(QPSK RB Number: 6 Offset: 0) Channel Highest



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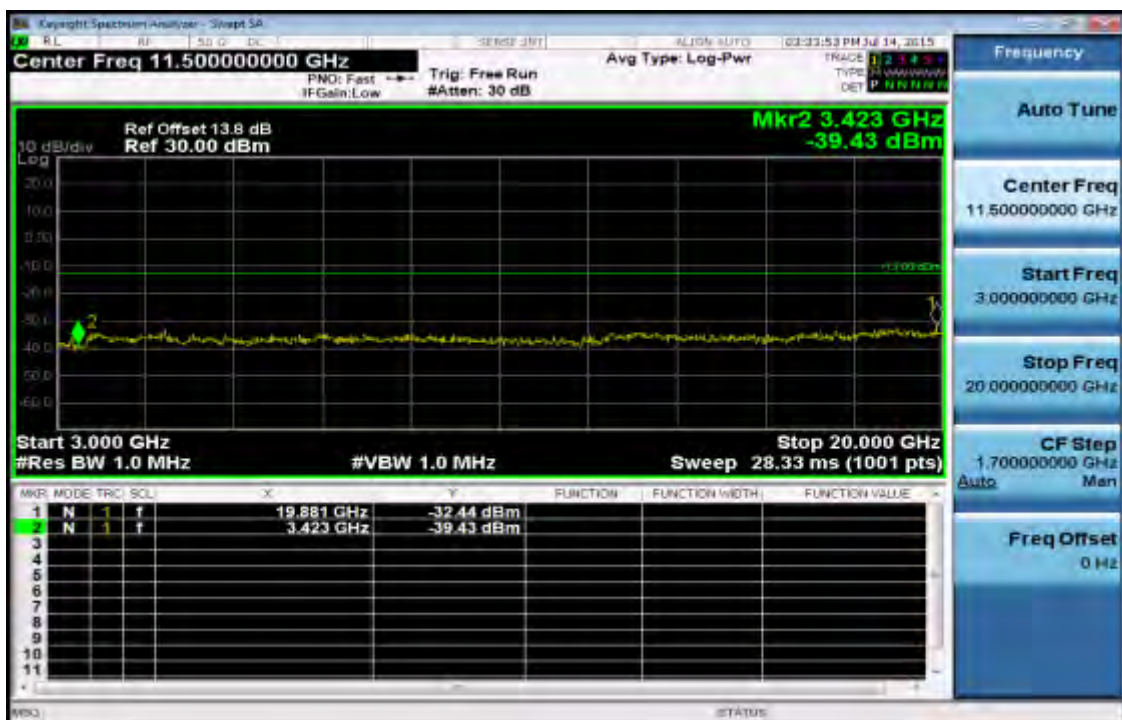
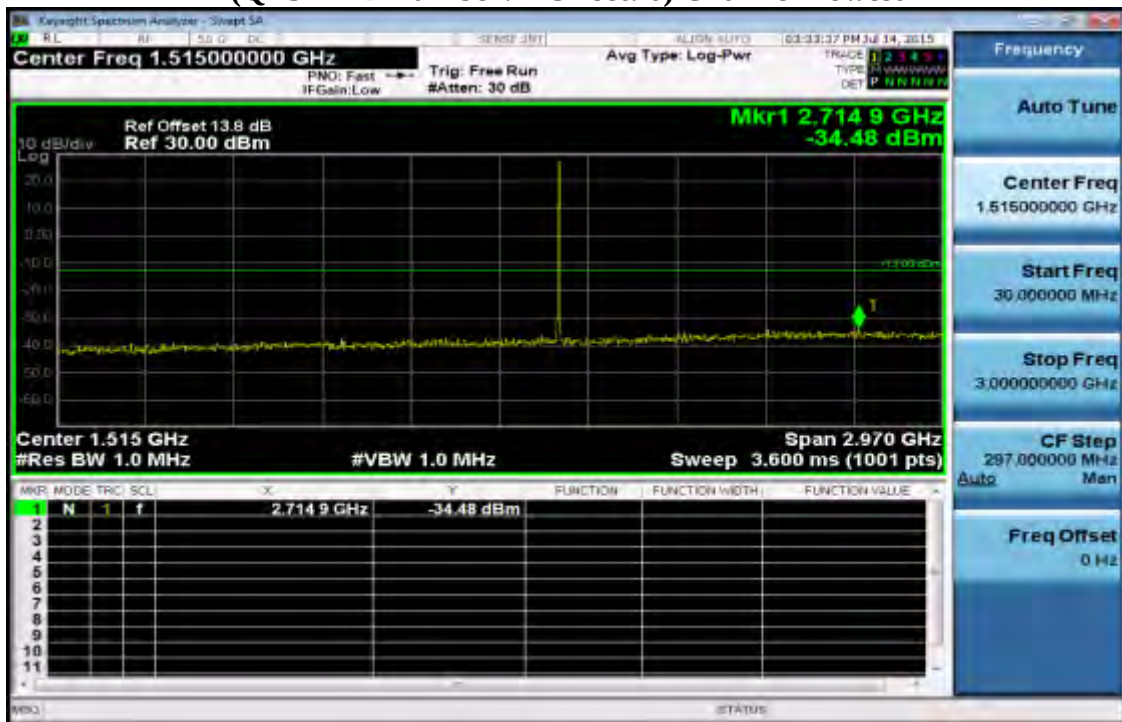
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Out of Band emission at antenna terminals–3MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0) Channel Lowest



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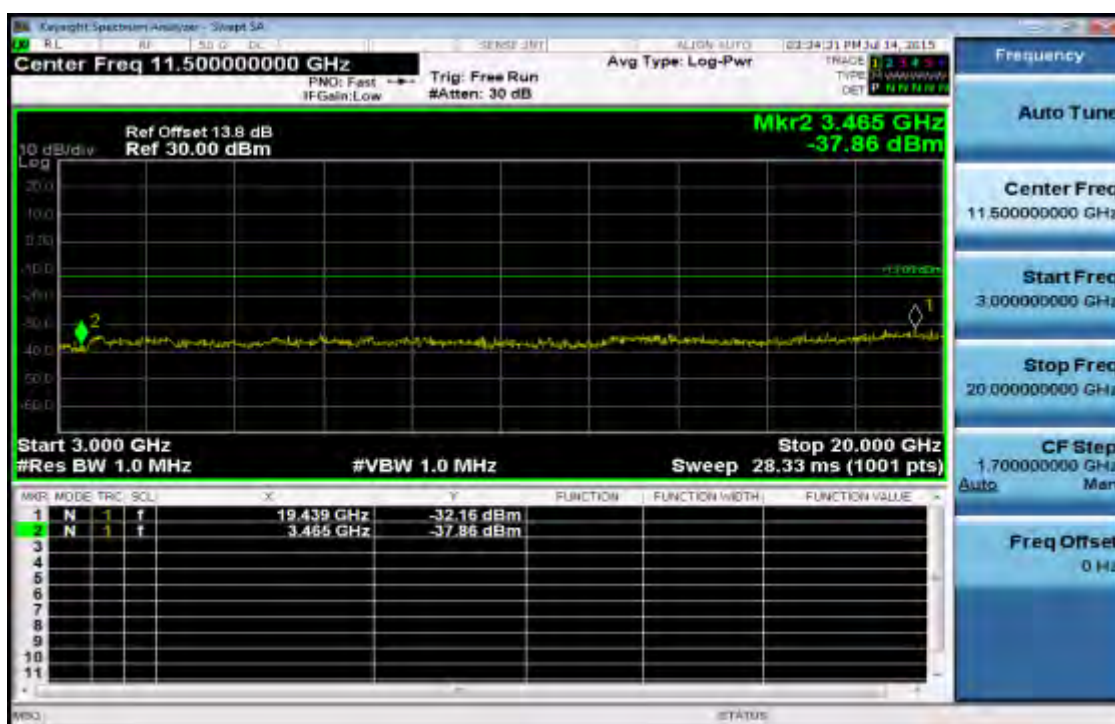
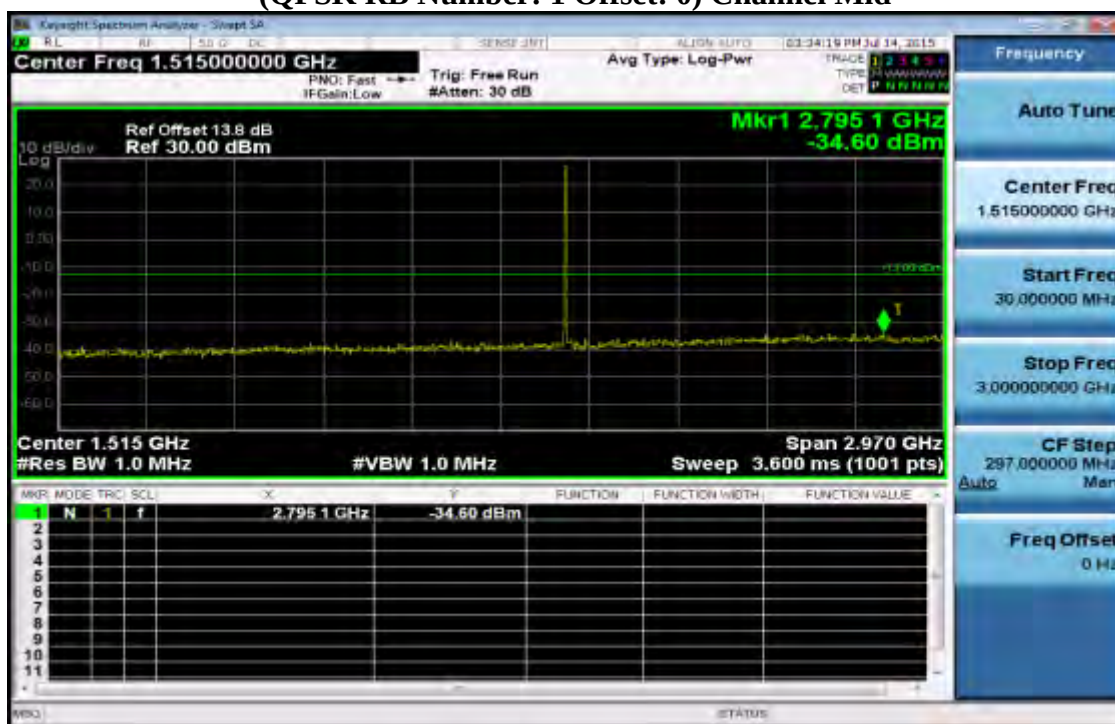
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Out of Band emission at antenna terminals –3MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid



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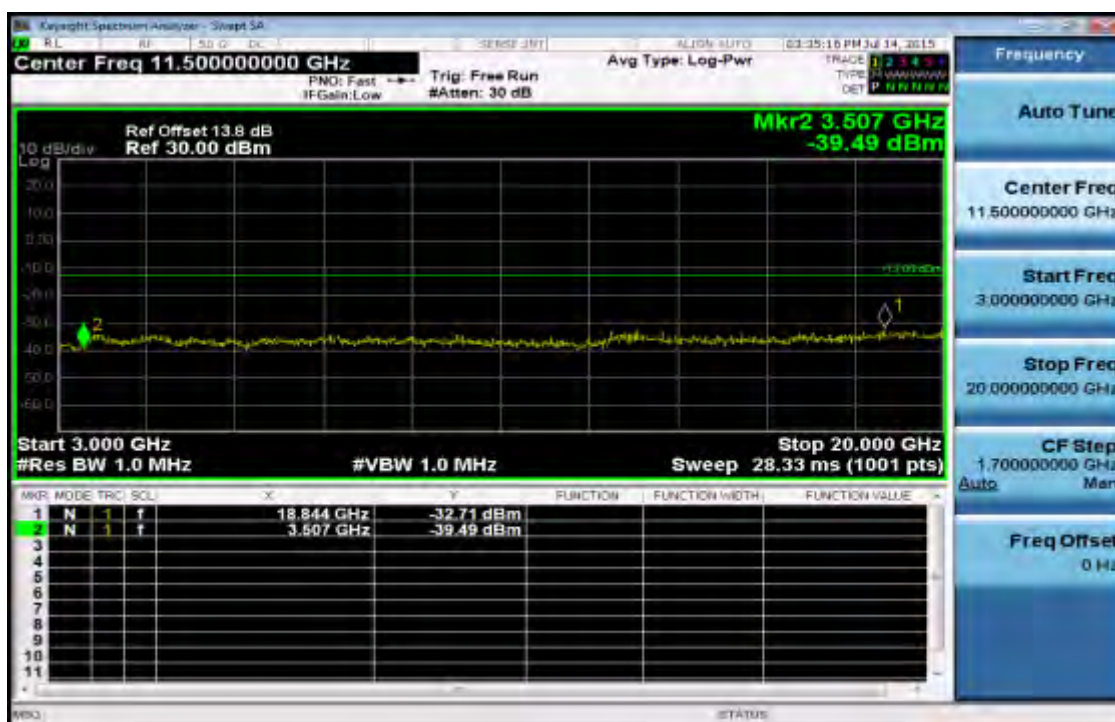
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Out of Band emission at antenna terminals–3MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0)Channel Highest



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Band edge emission at antenna terminals –3MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –3MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 14) Channel Highest



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Band edge emission at antenna terminals –3MHz BW LTE-Band 4 (QPSK RB Number: 15 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –3MHz BW LTE-Band 4 (QPSK RB Number: 15 Offset: 0) Channel Highest



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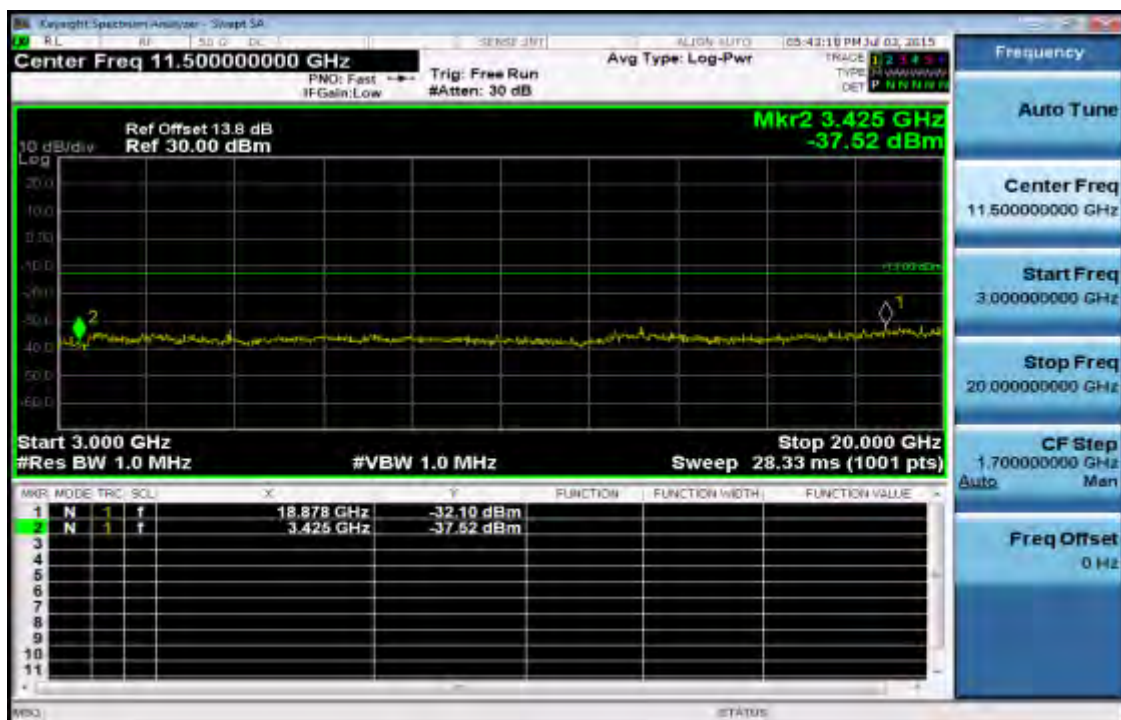
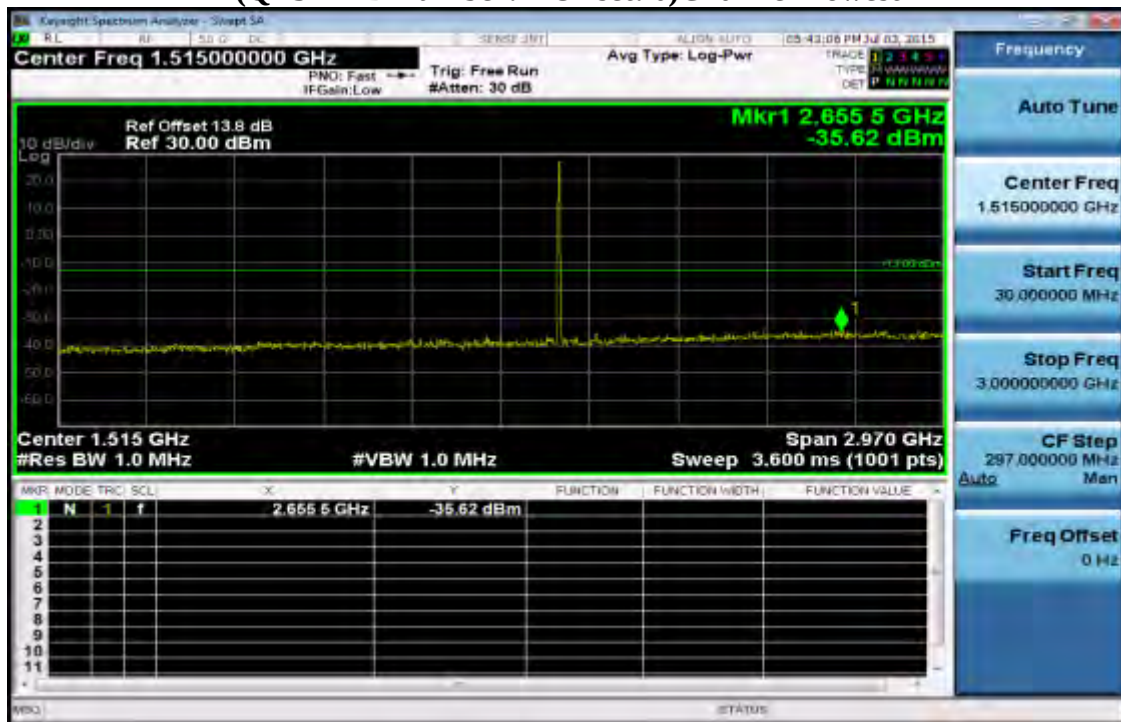
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Out of Band emission at antenna terminals–5MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0)Channel Lowest



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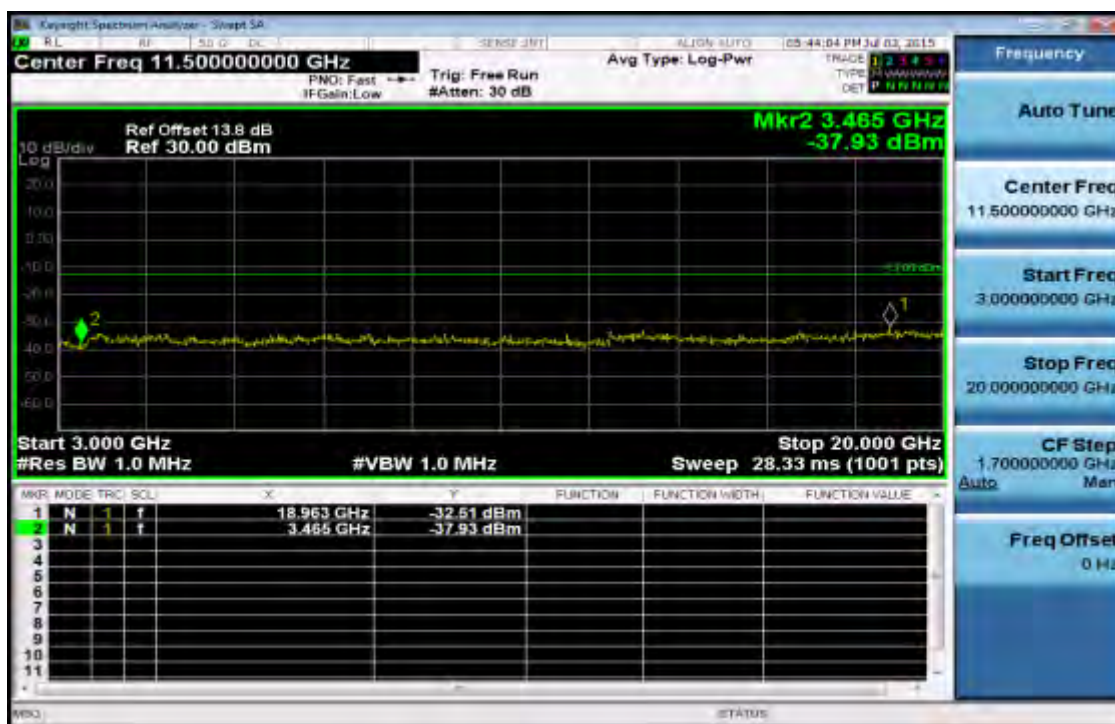
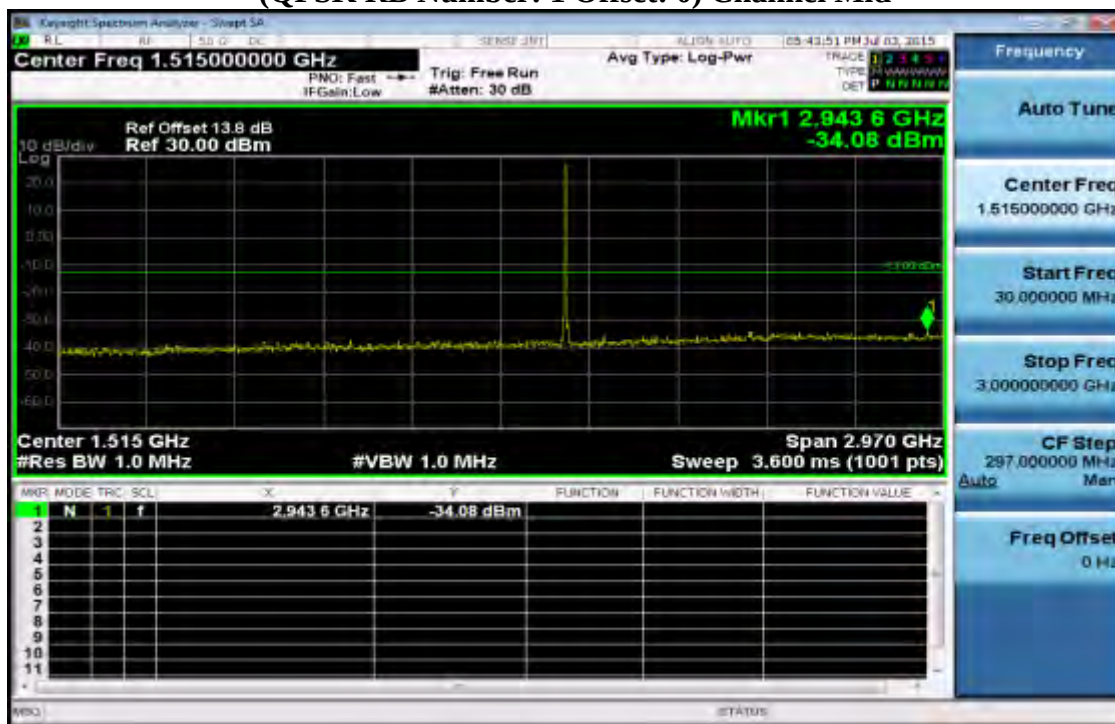
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Out of Band emission at antenna terminals –5MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid



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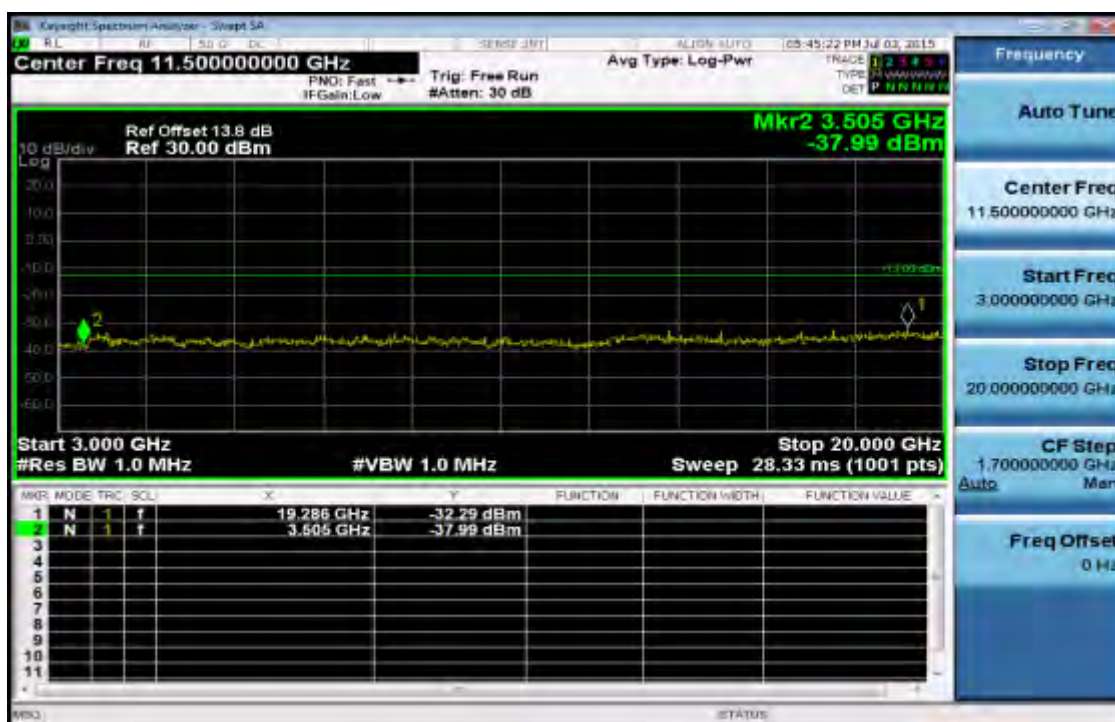
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Out of Band emission at antenna terminals–5MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0)Channel Highest



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Band edge emission at antenna terminals –5MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –5MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 24) Channel Highest



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Band edge emission at antenna terminals –5MHz BW LTE-Band 4 (QPSK RB Number: 25 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –5MHz BW LTE-Band 4 (QPSK RB Number: 25 Offset: 0) Channel Highest



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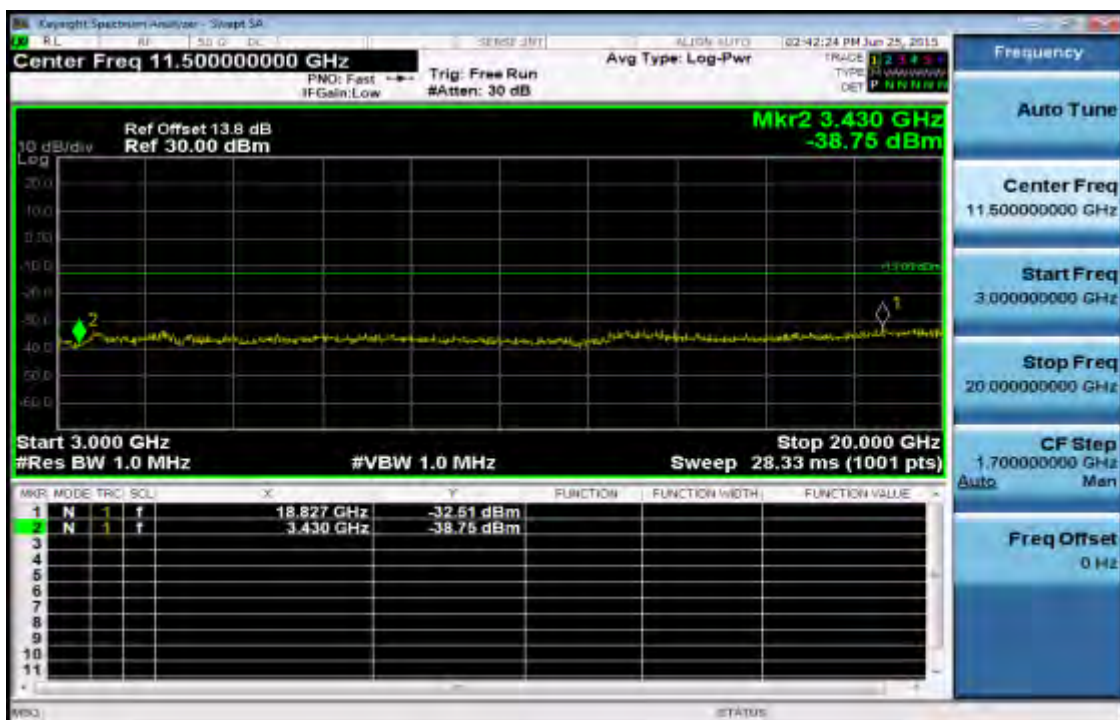
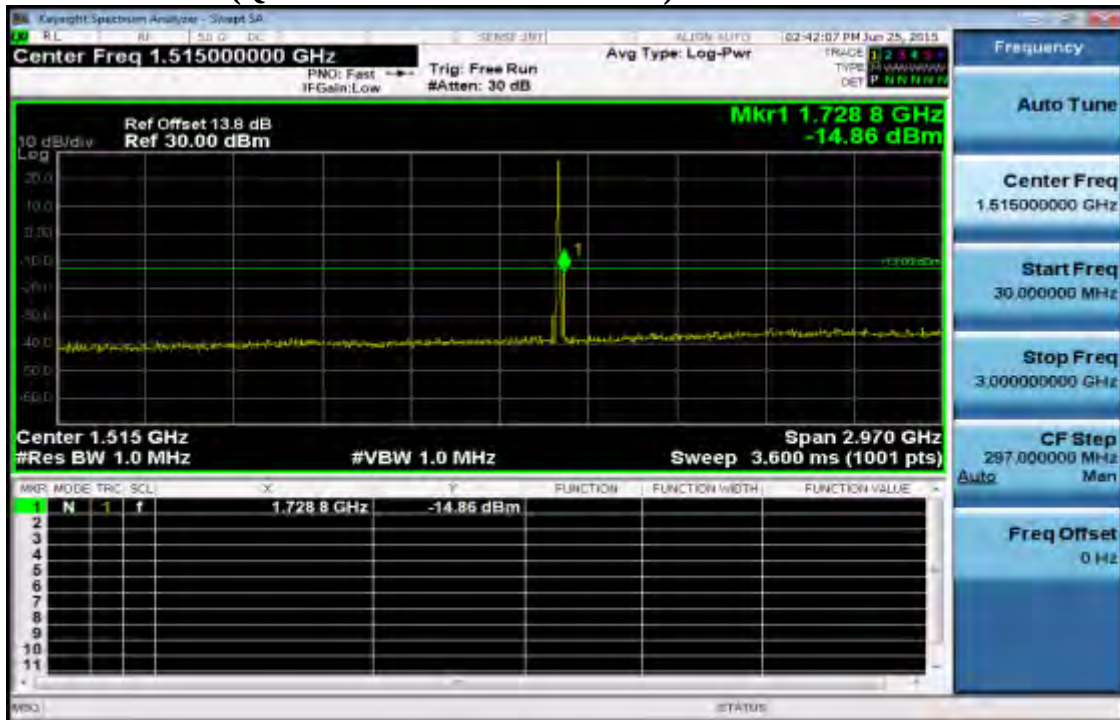
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Out of Band emission at antenna terminals–10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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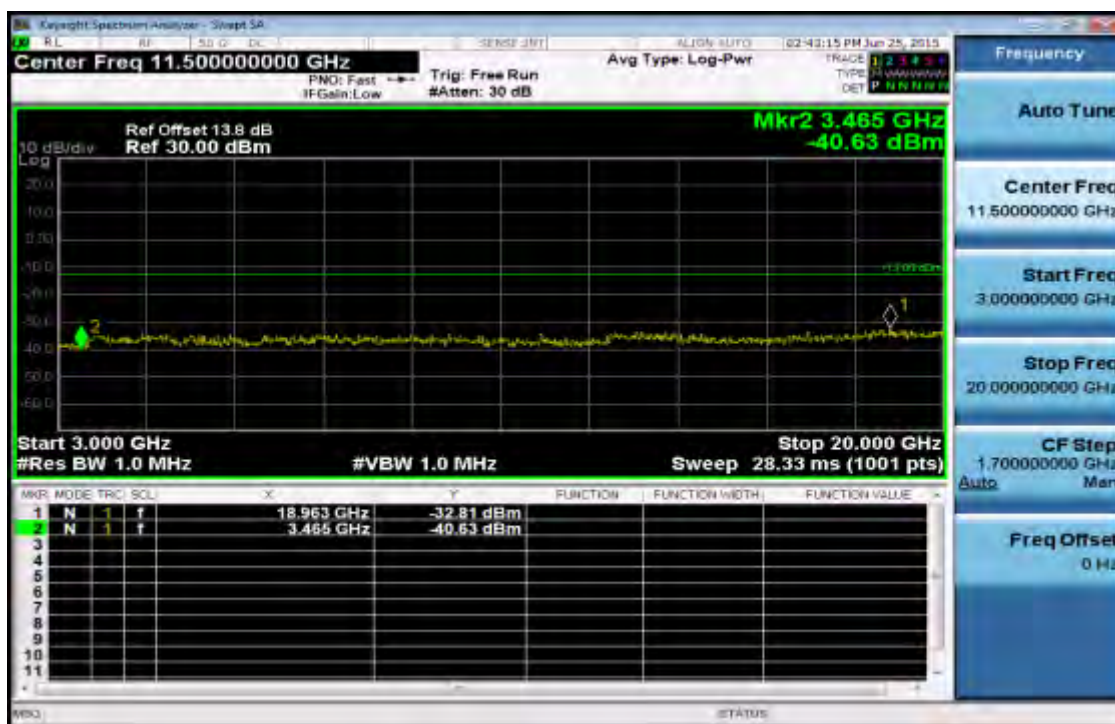
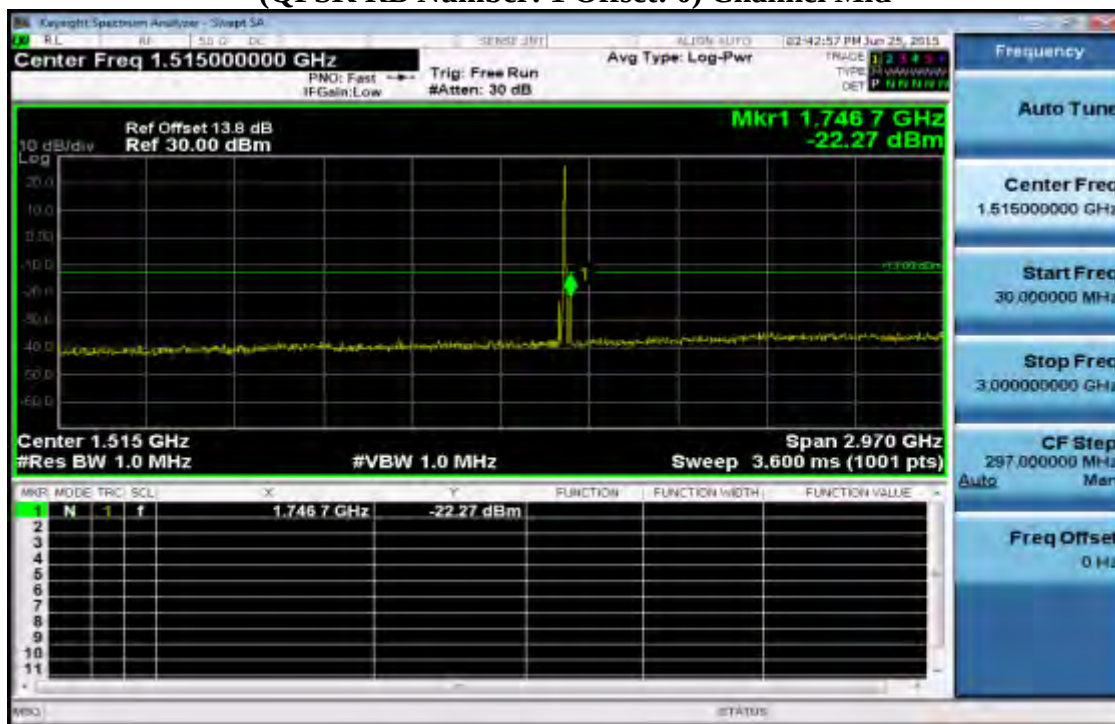
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Out of Band emission at antenna terminals –10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid



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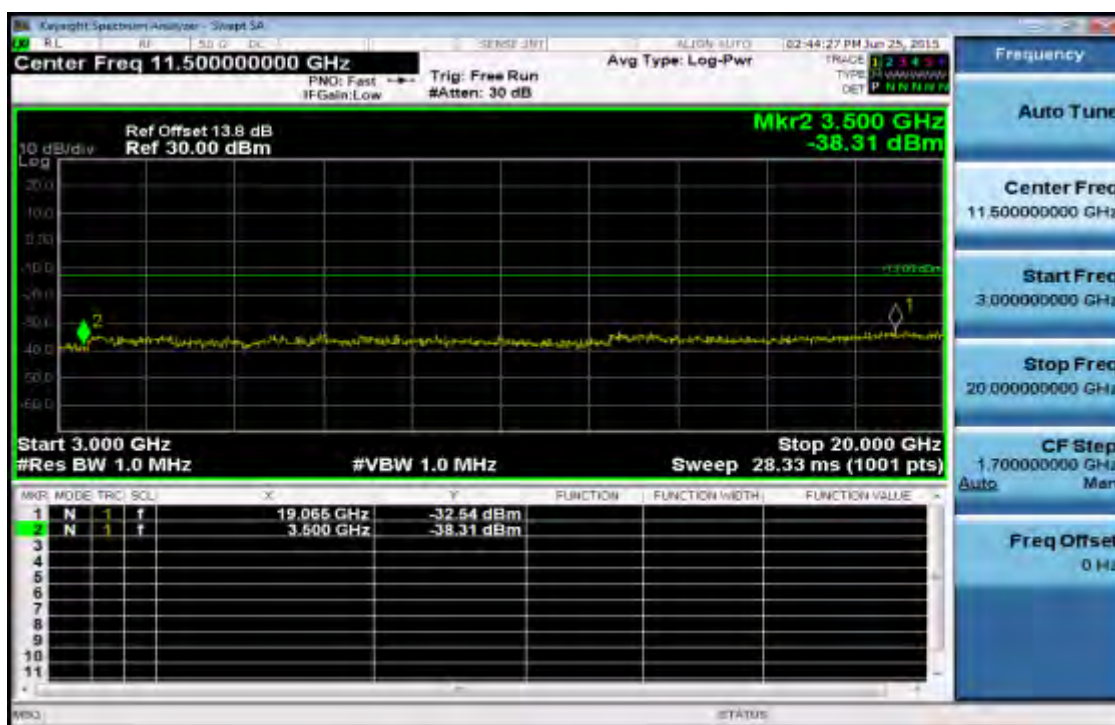
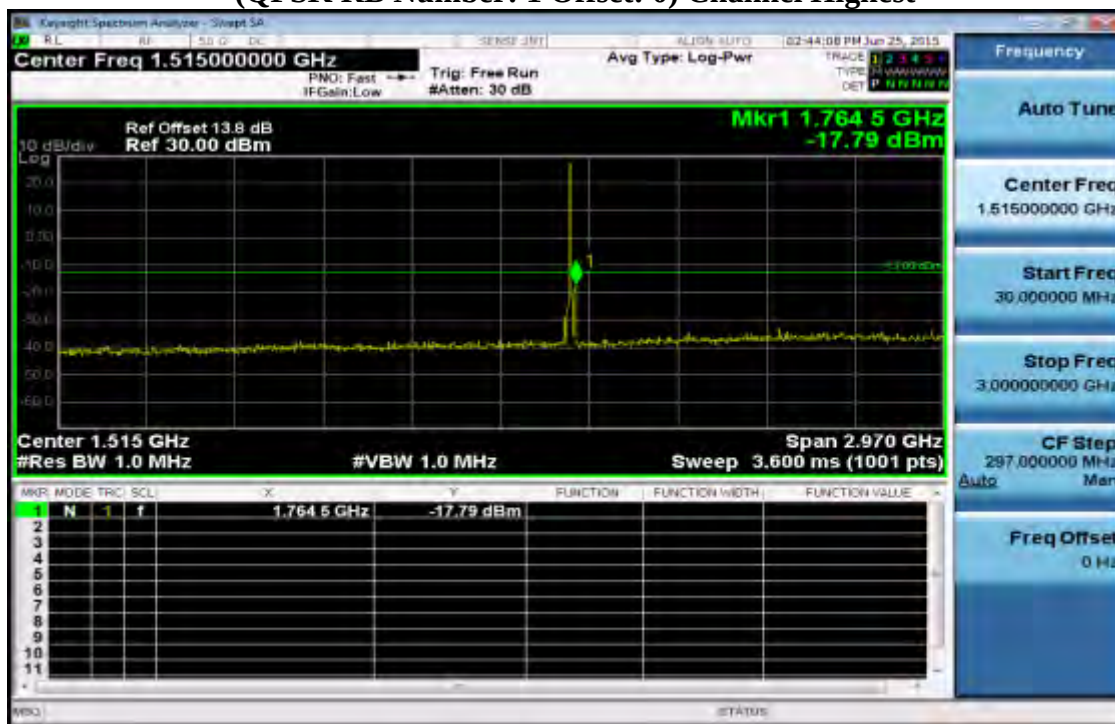
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Out of Band emission at antenna terminals–10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest



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Band edge emission at antenna terminals –10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 49) Channel Highest



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Band edge emission at antenna terminals –10MHz BW LTE-Band 4 (QPSK RB Number: 50 Offset: 0) Channel Highest



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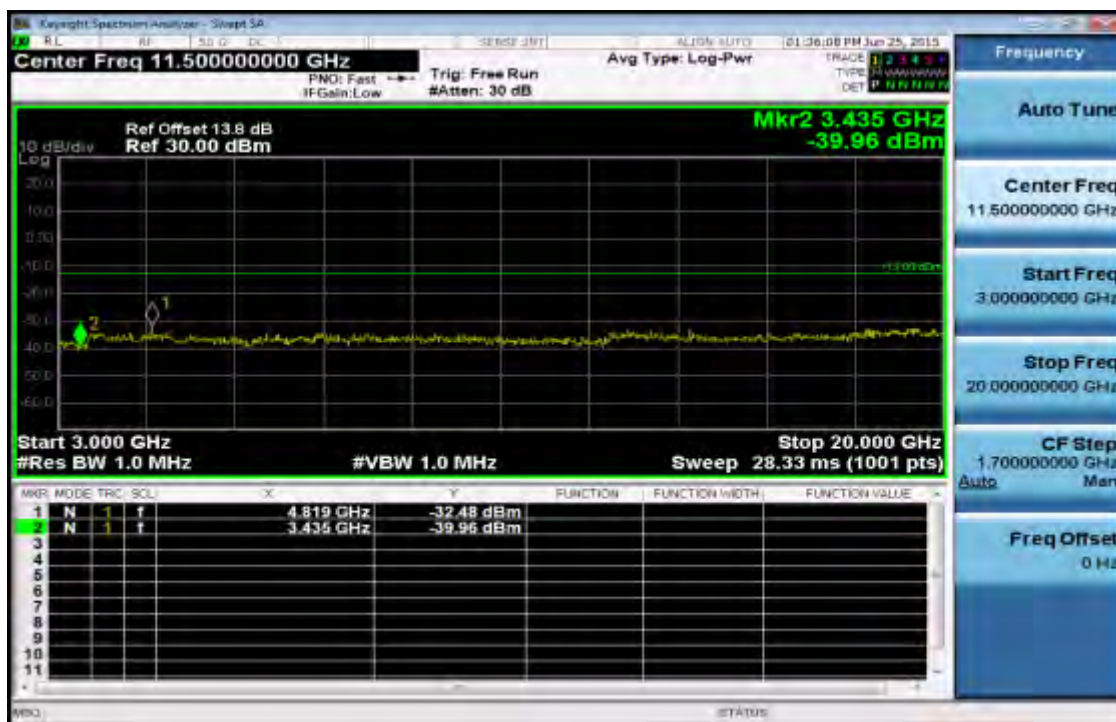
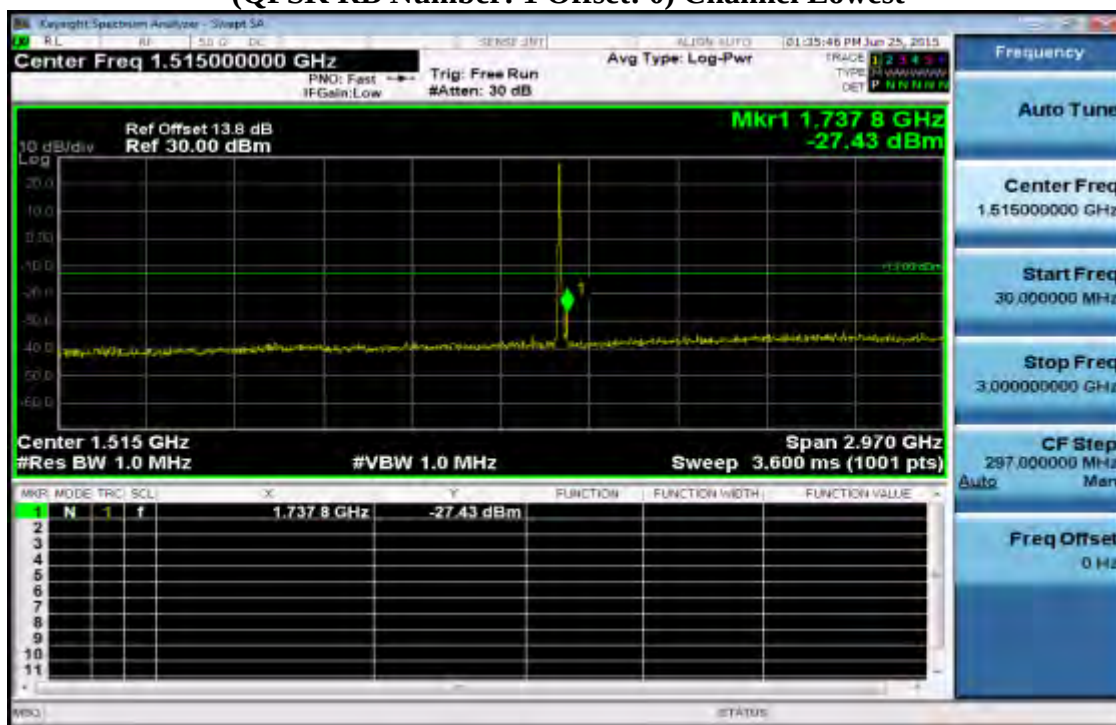
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Out of Band emission at antenna terminals–15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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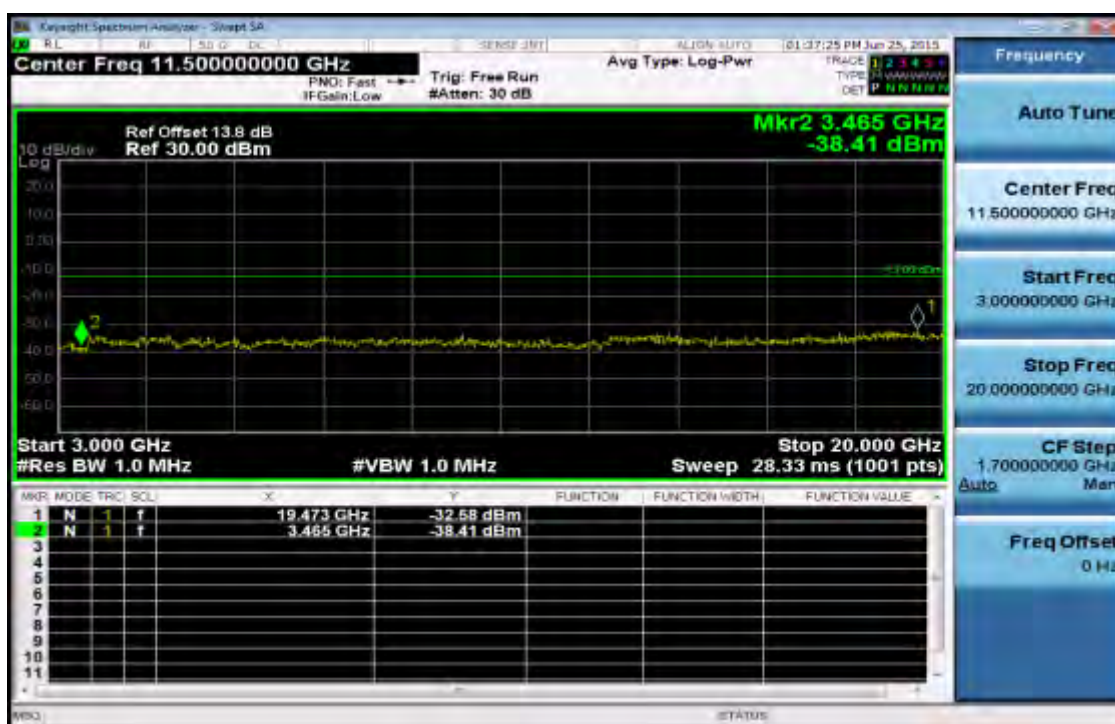
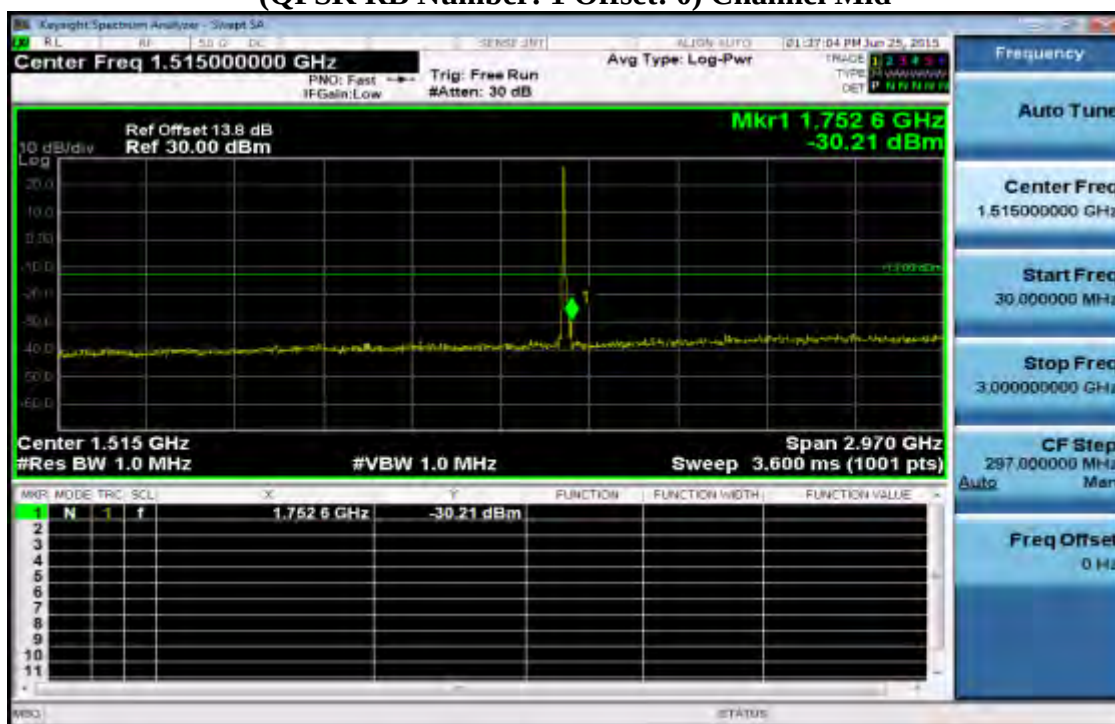
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Out of Band emission at antenna terminals –15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid



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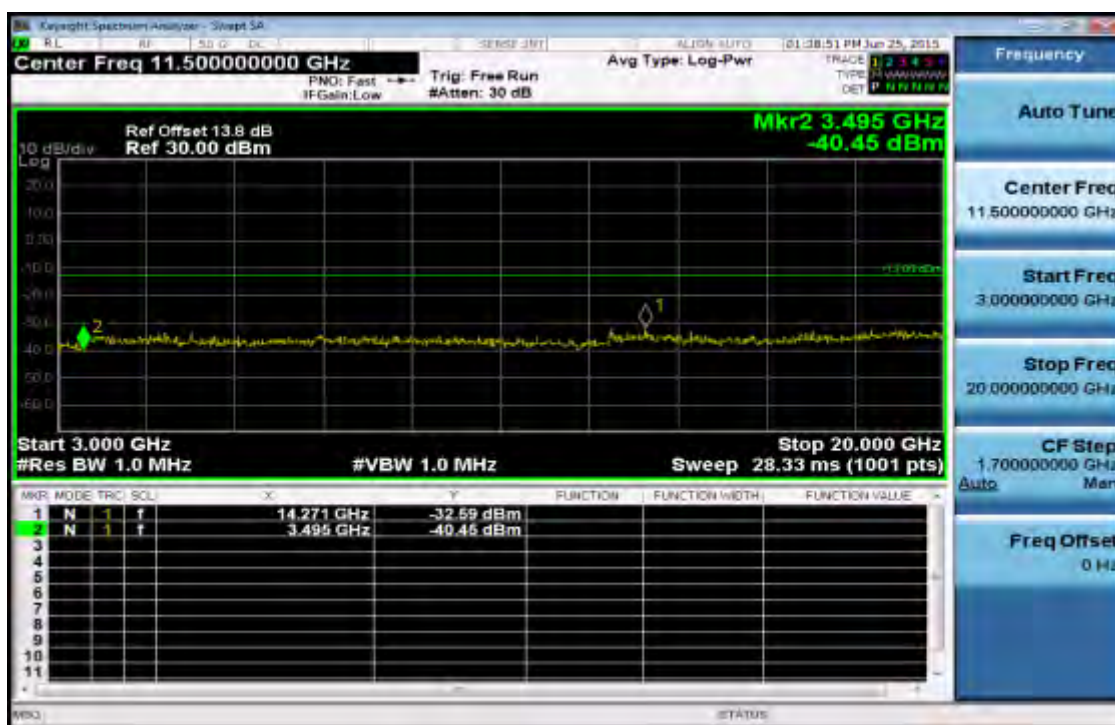
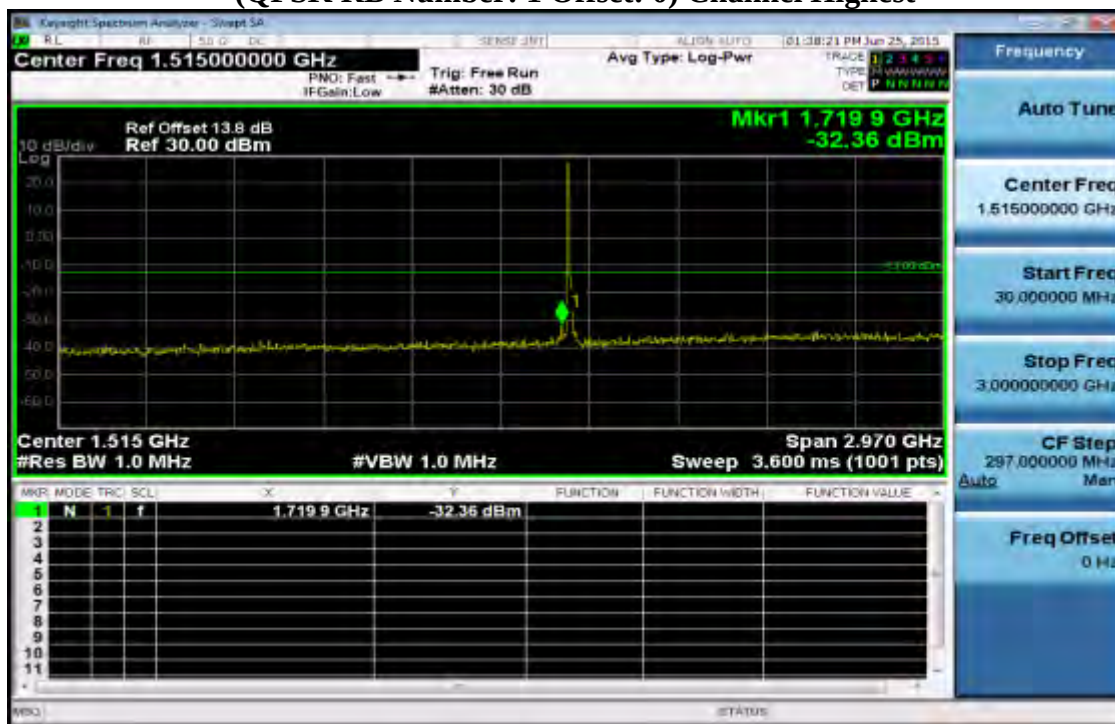
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Out of Band emission at antenna terminals–15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest



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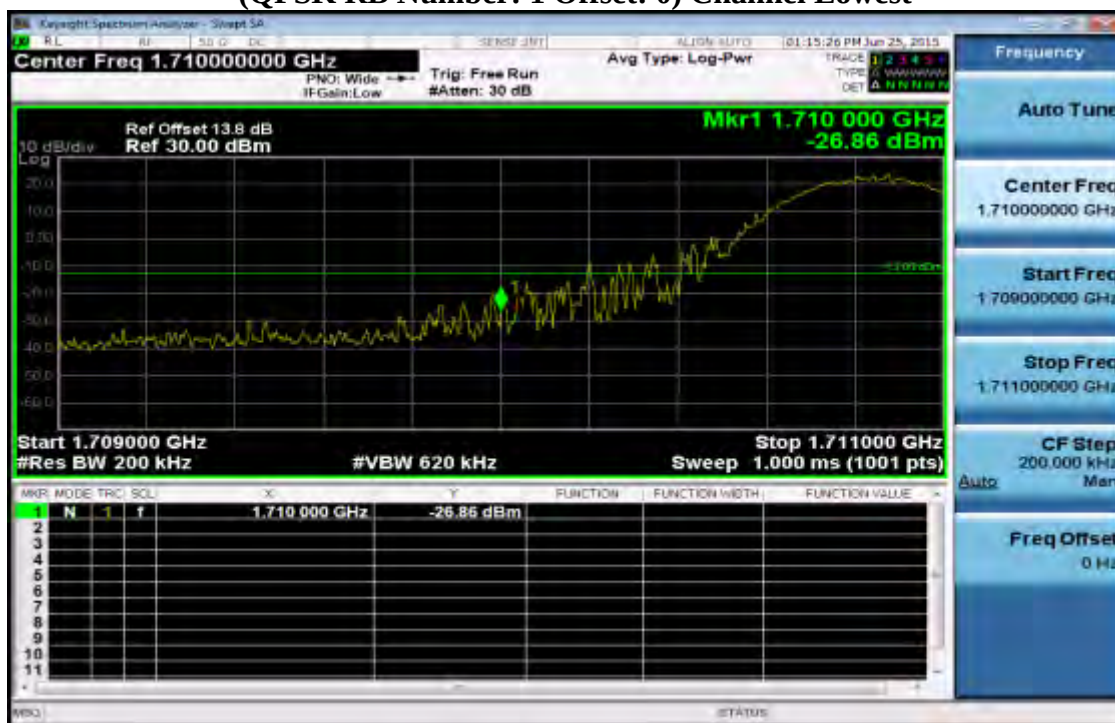
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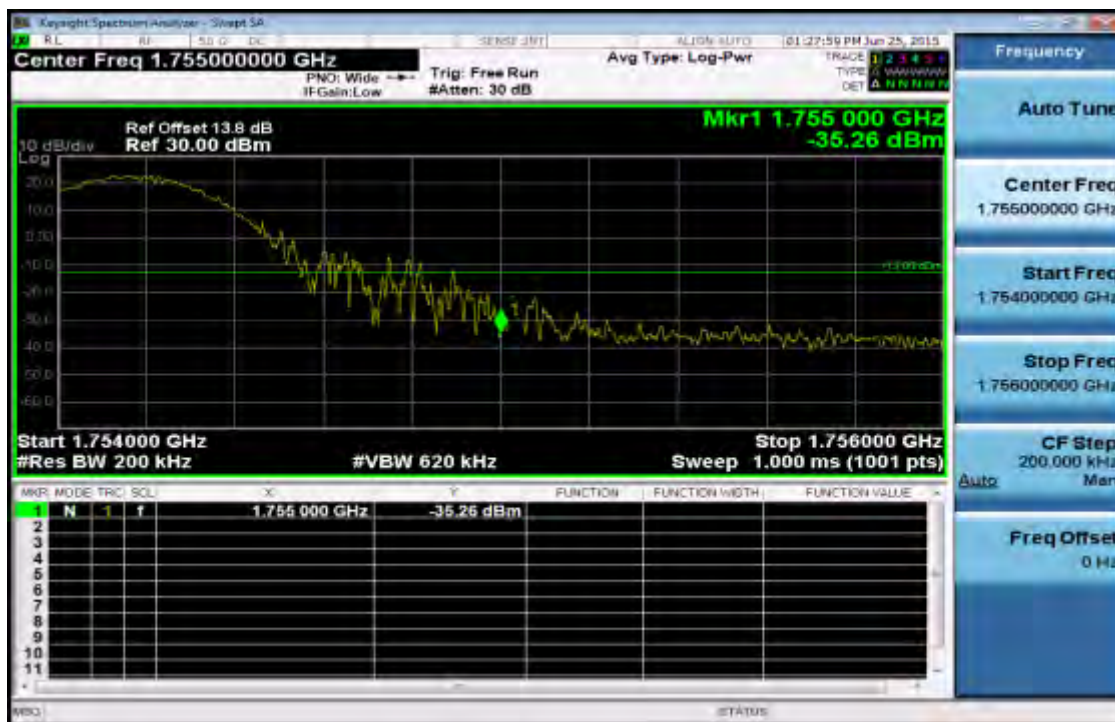
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Band edge emission at antenna terminals –15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 74) Channel Highest



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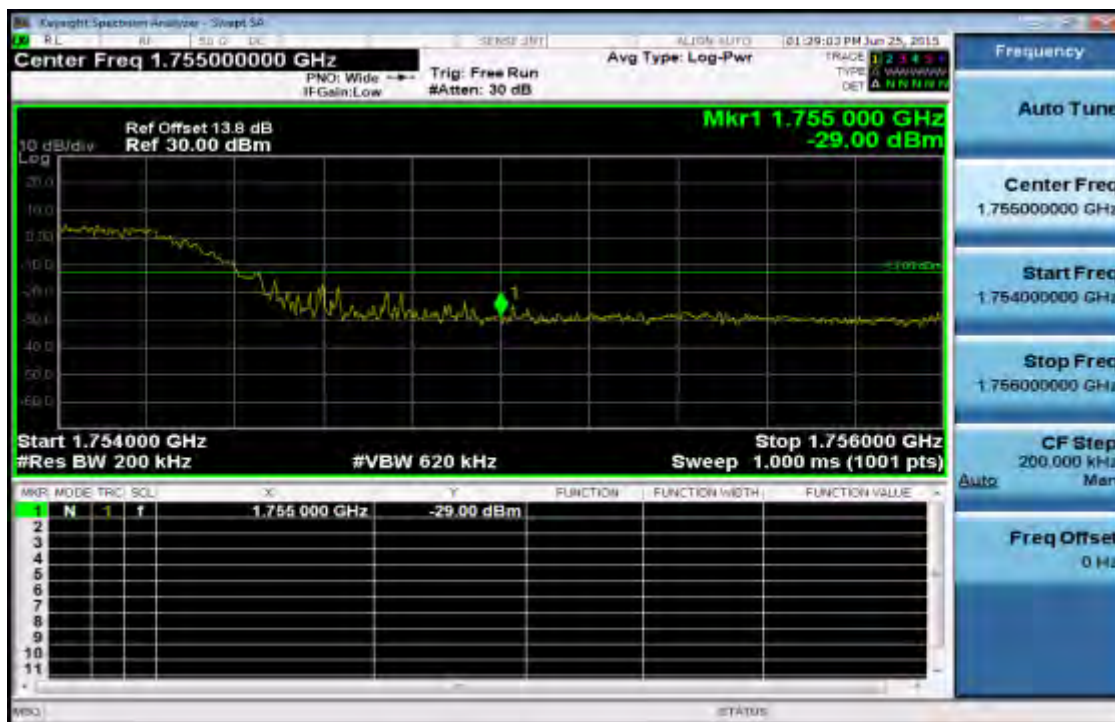
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Band edge emission at antenna terminals –15MHz BW LTE-Band 4
(QPSK RB Number: 75 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –15MHz BW LTE-Band 4
(QPSK RB Number: 75 Offset: 04) Channel Highest



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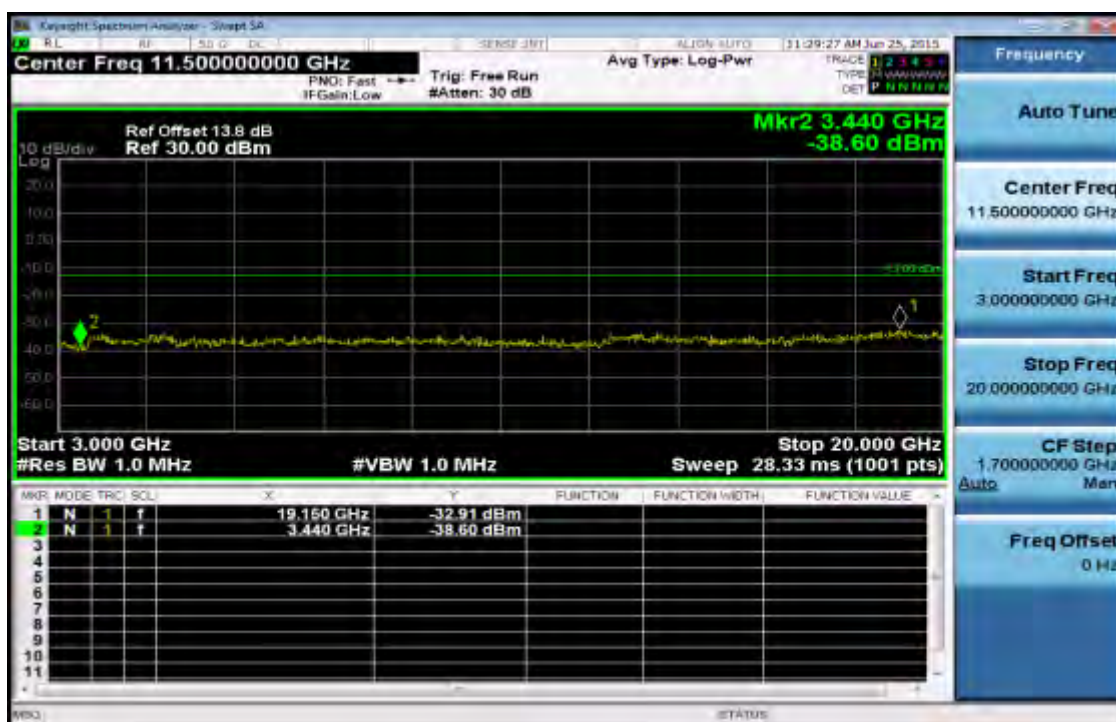
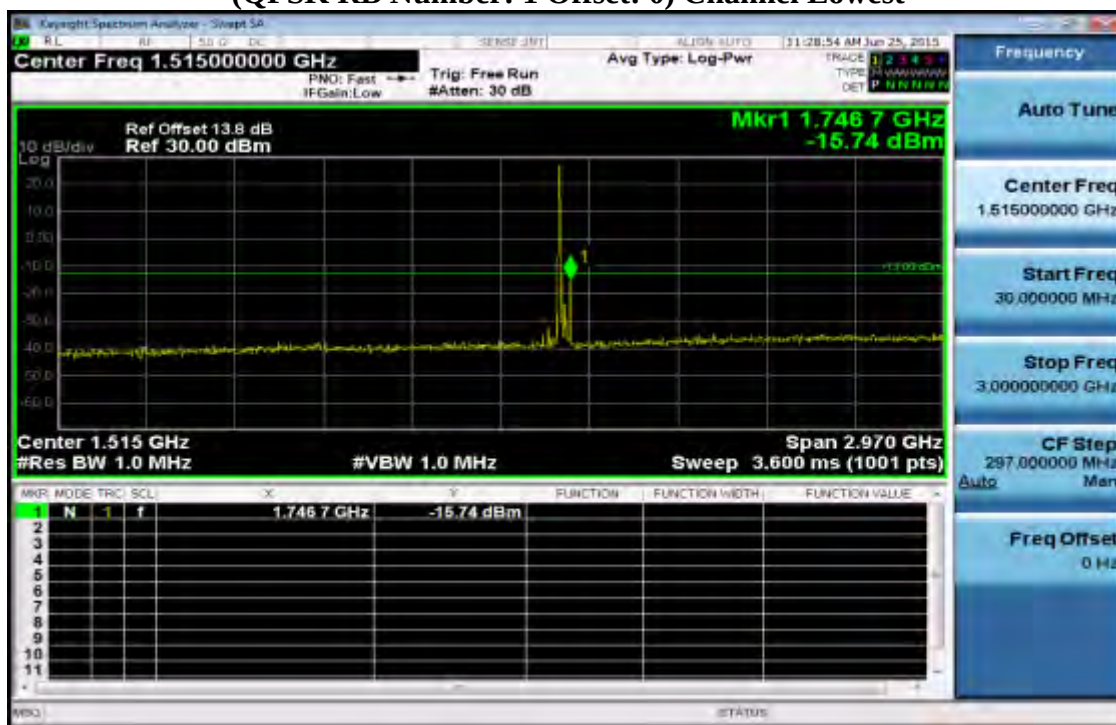
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Out of Band emission at antenna terminals–20MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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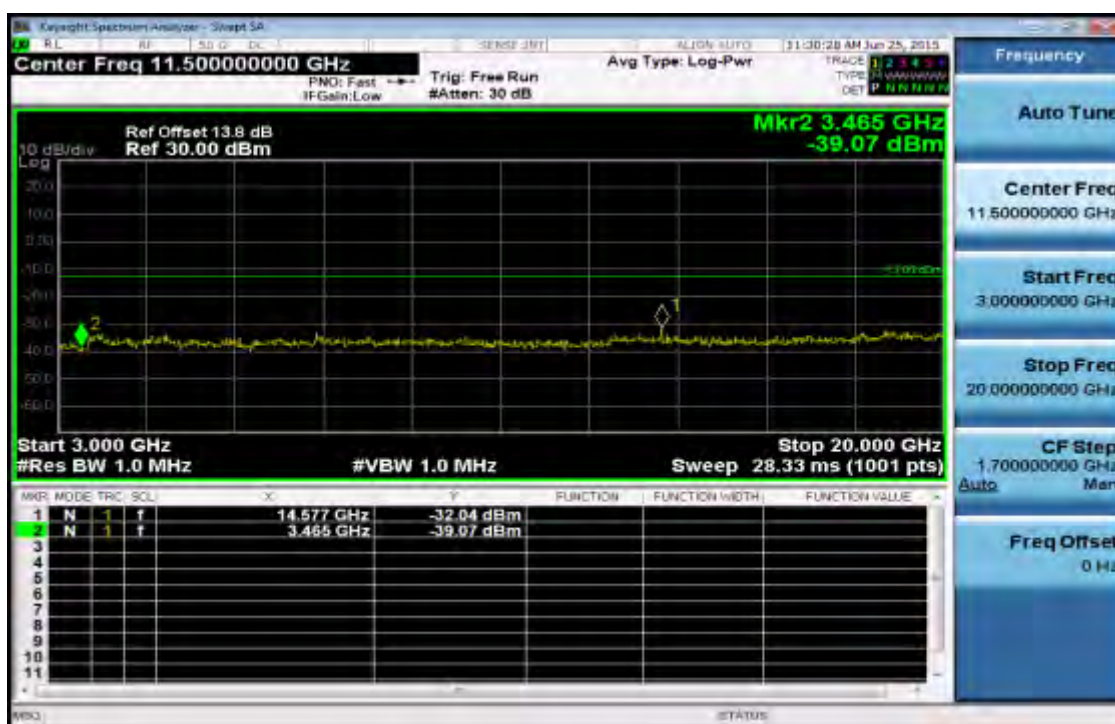
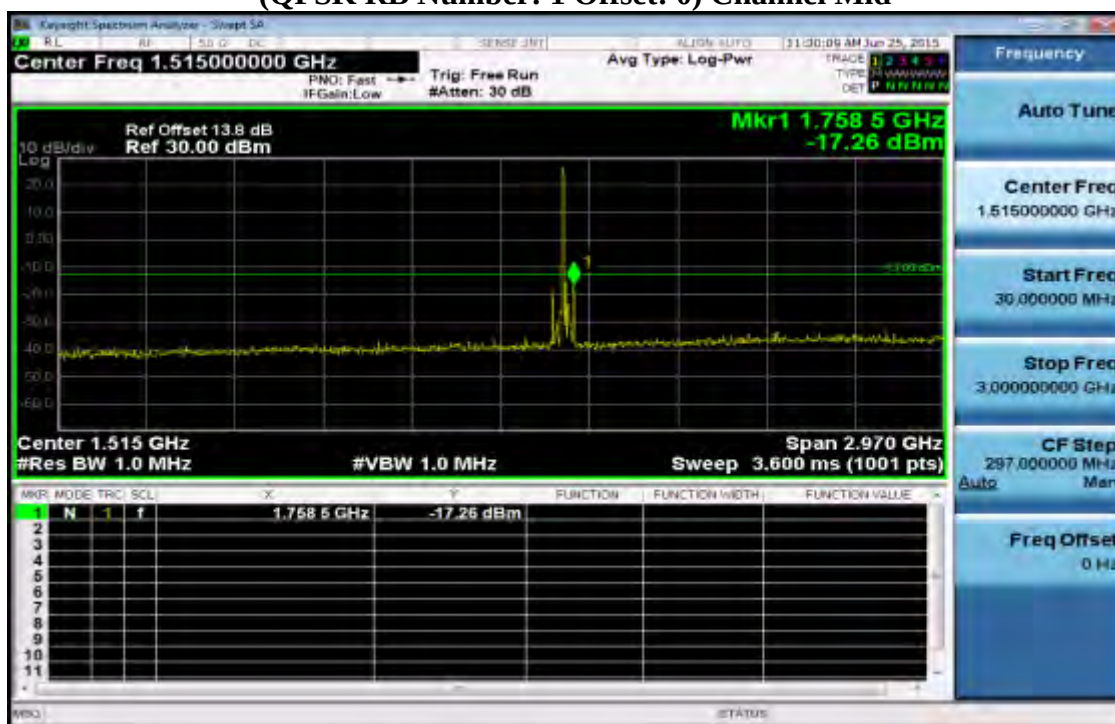
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Out of Band emission at antenna terminals –20MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid



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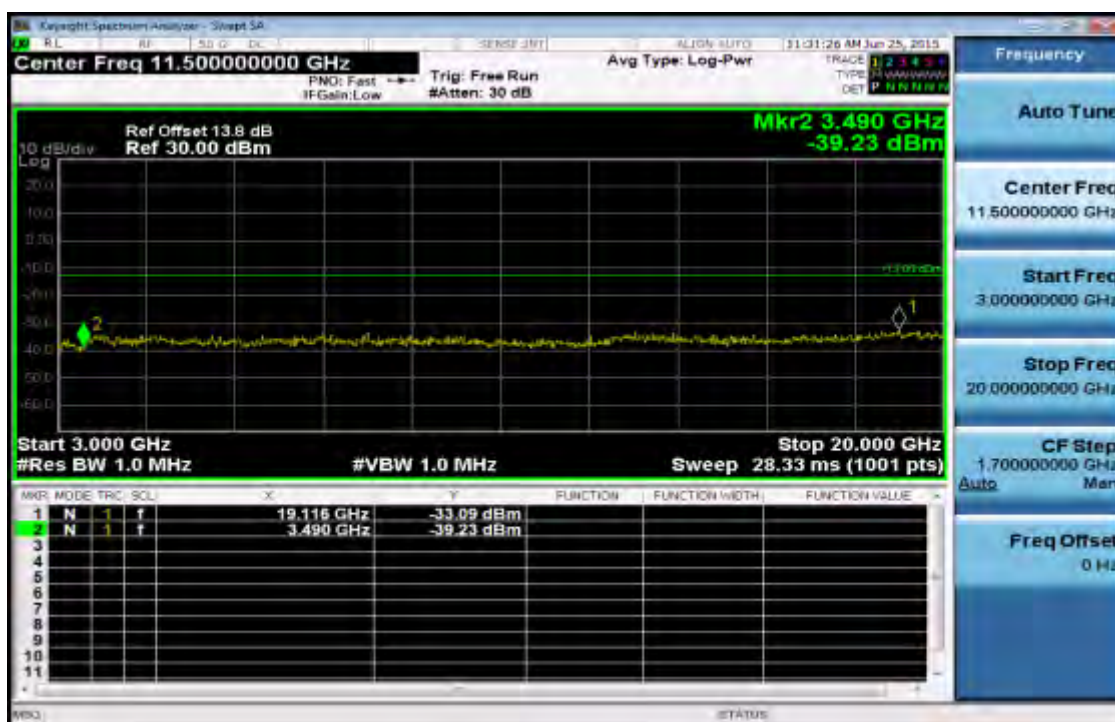
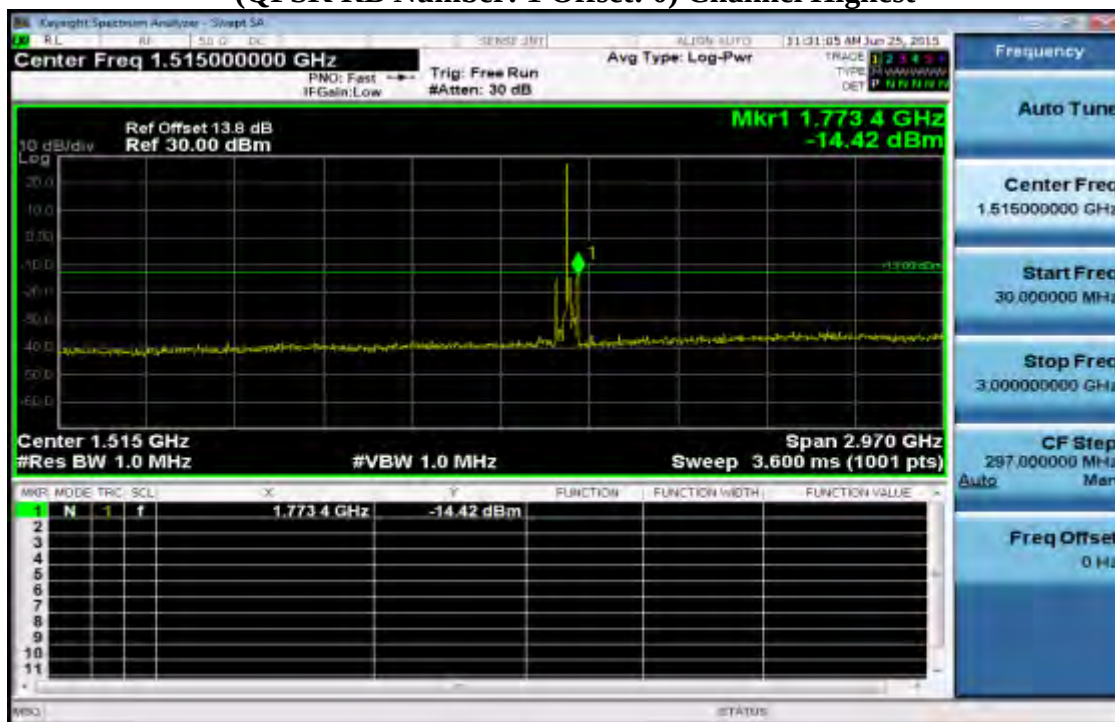
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Out of Band emission at antenna terminals–20MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest



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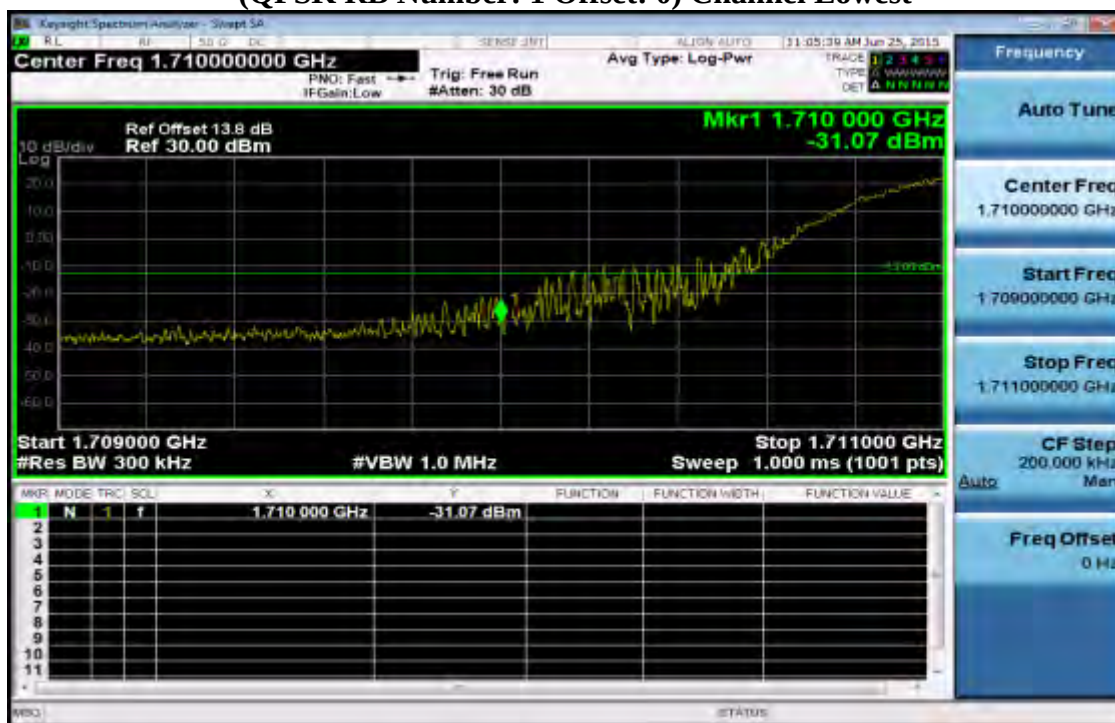
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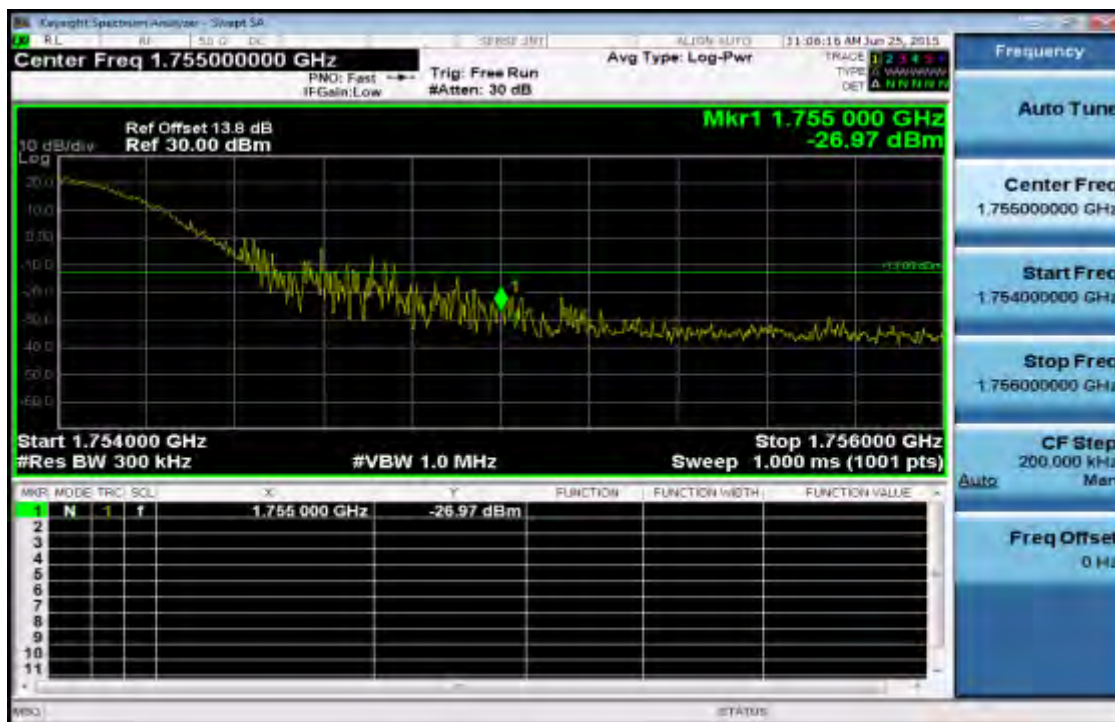
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Band edge emission at antenna terminals –20MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –20MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 99) Channel Highest



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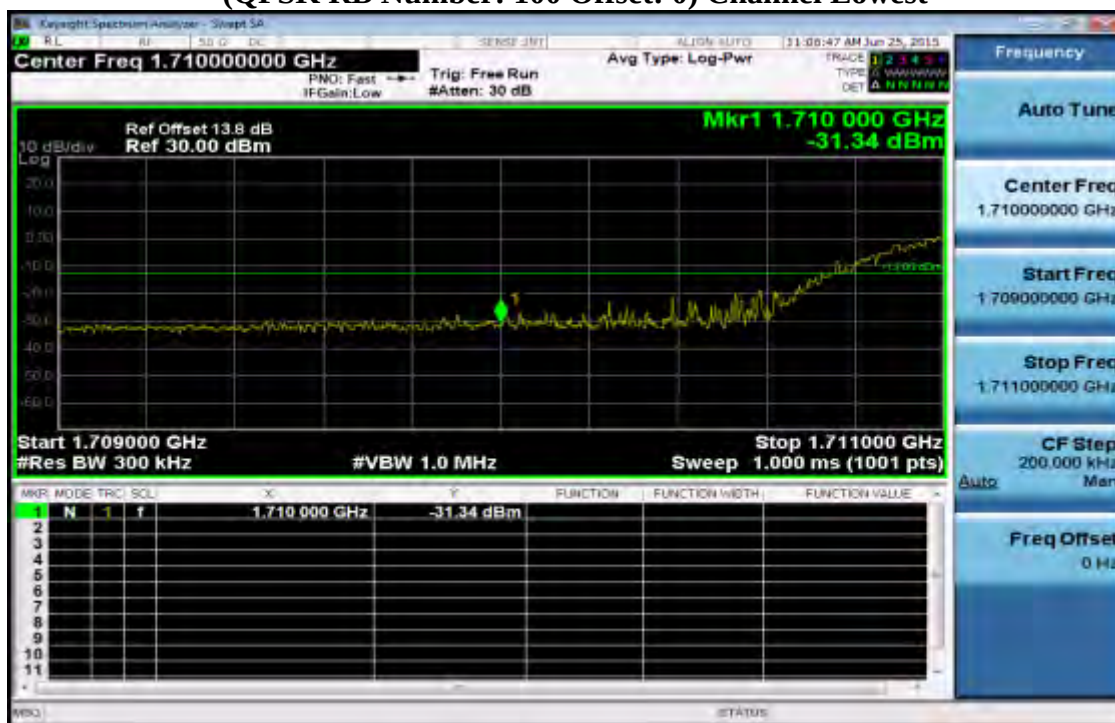
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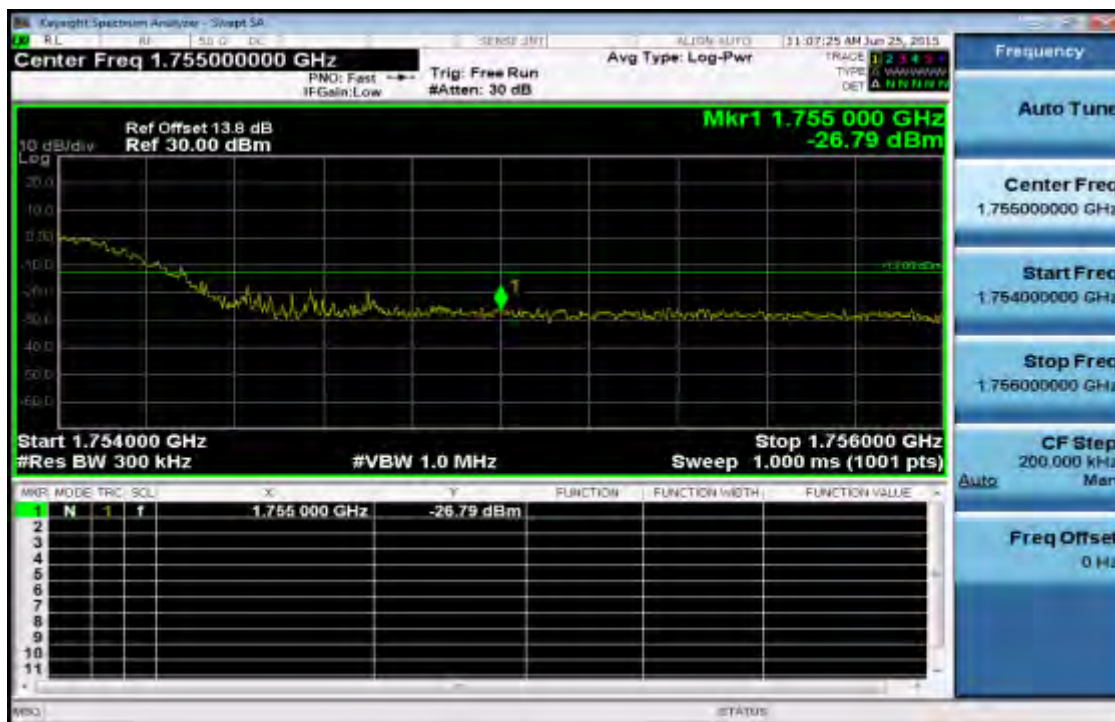
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Band edge emission at antenna terminals –20MHz BW LTE-Band 4
(QPSK RB Number: 100 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –20MHz BW LTE-Band 4
(QPSK RB Number: 100 Offset: 0) Channel Highest



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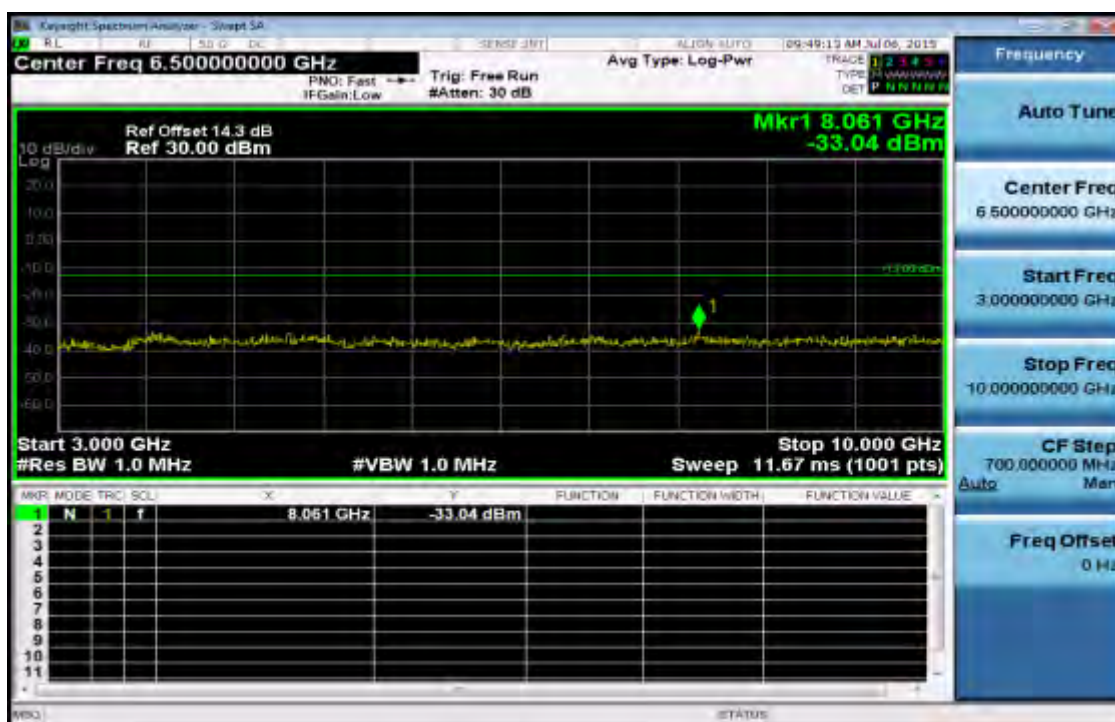
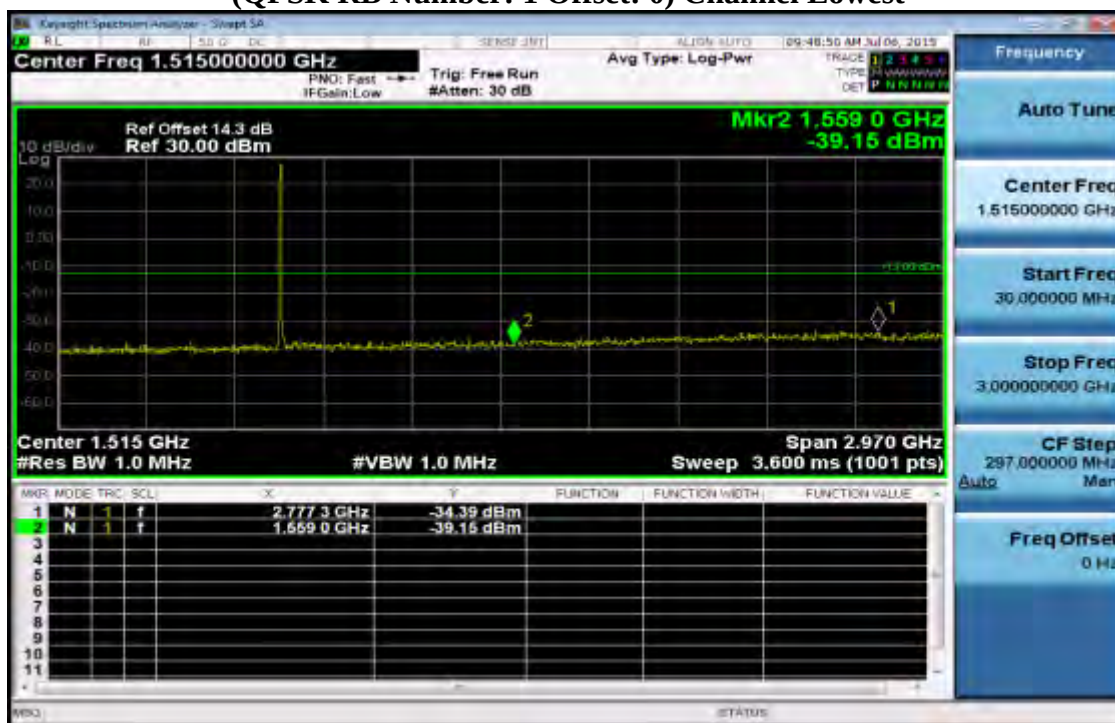
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Out of Band emission at antenna terminals–5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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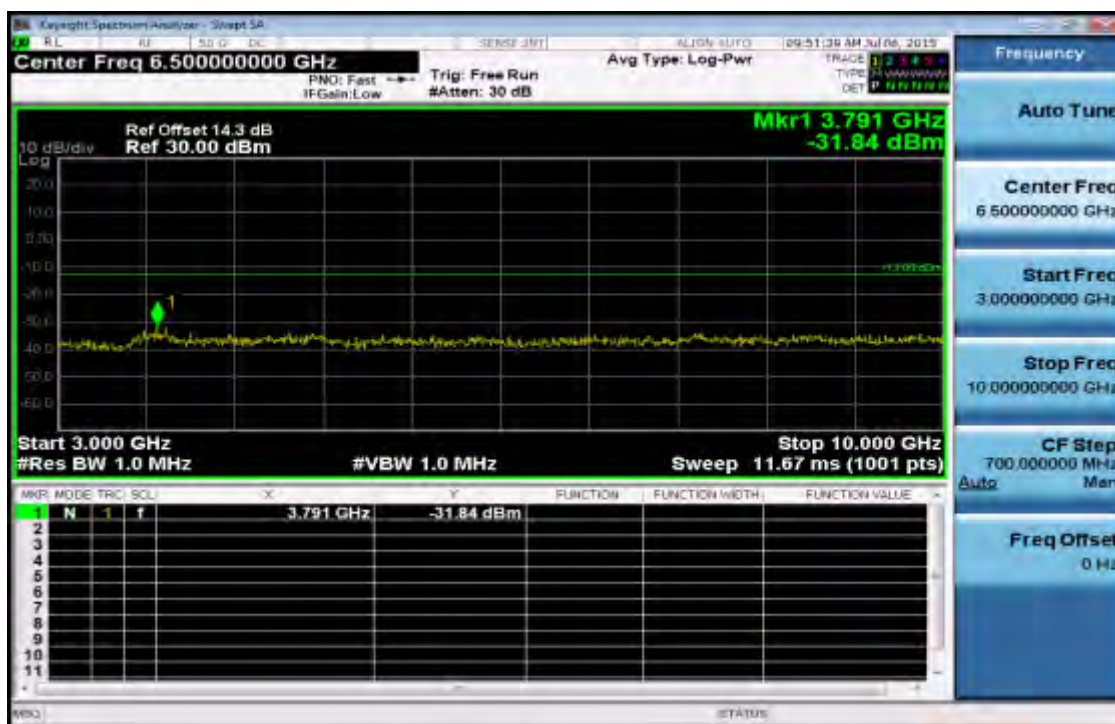
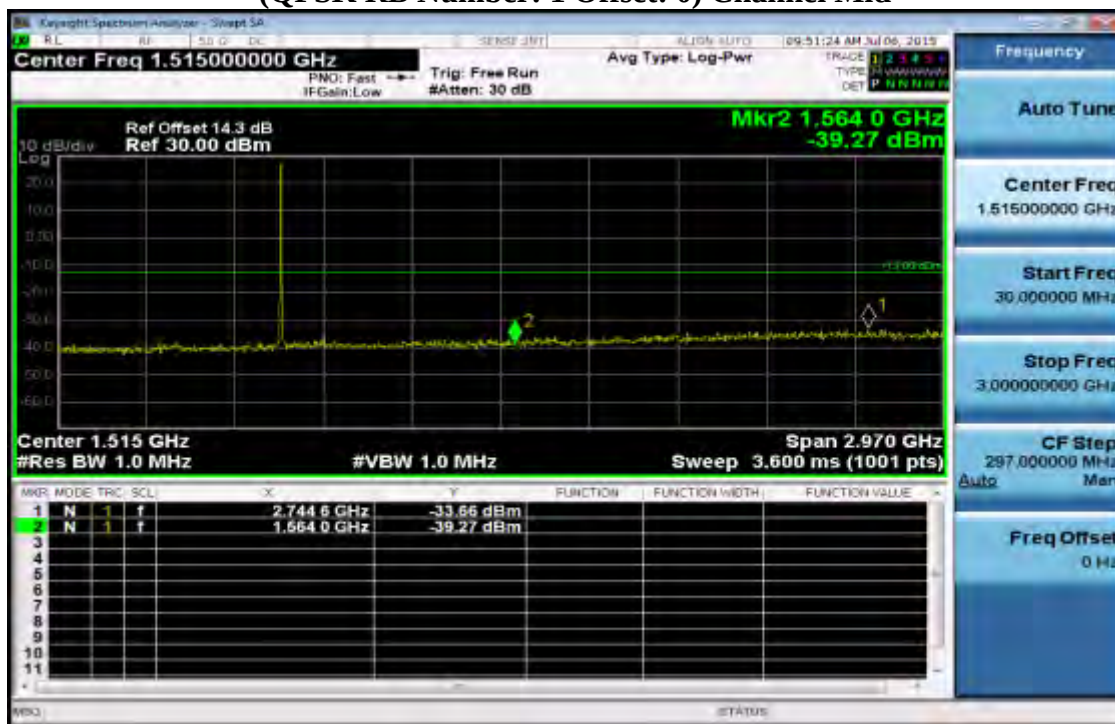
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Out of Band emission at antenna terminals –5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Mid



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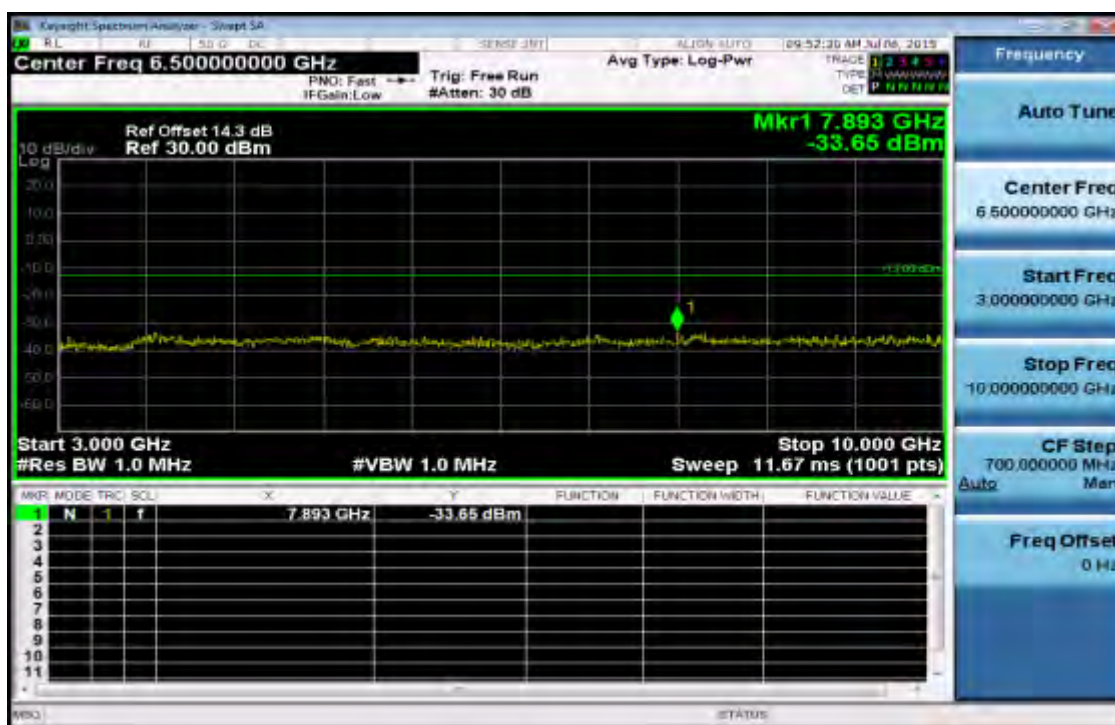
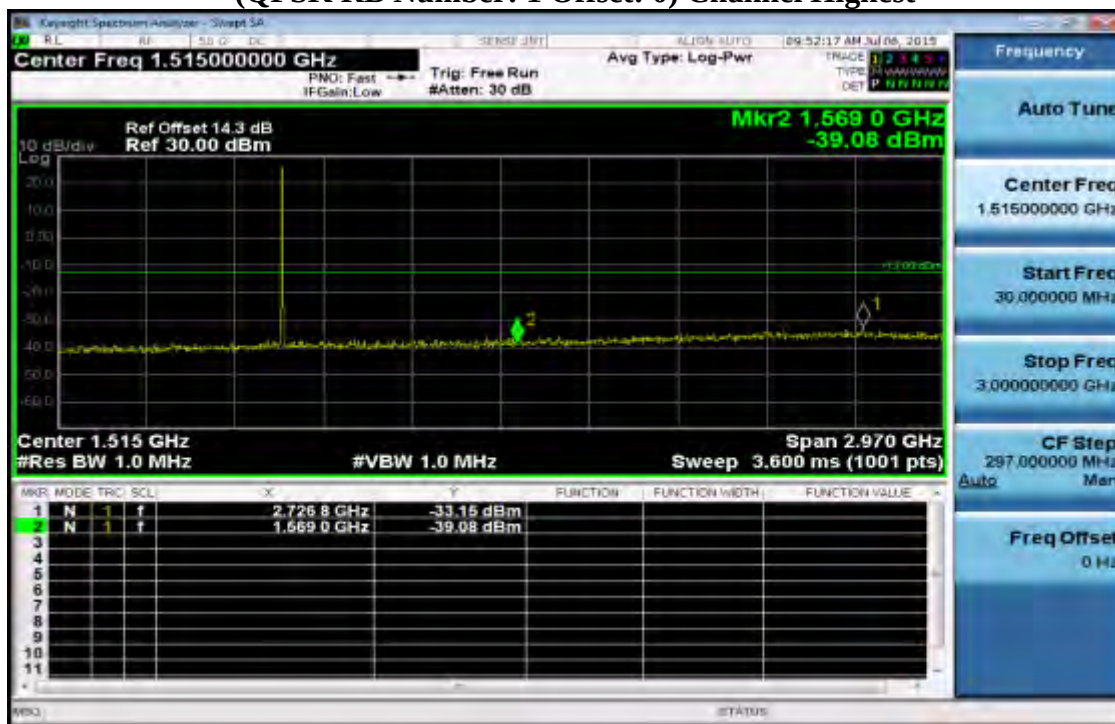
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Out of Band emission at antenna terminals–5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Highest



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Band edge emission at antenna terminals –5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 24) Channel Highest



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Band edge emission at antenna terminals –5MHz BW LTE-Band 13 (QPSK RB Number: 25 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –5MHz BW LTE-Band 13 (QPSK RB Number: 25 Offset: 0) Channel Highest



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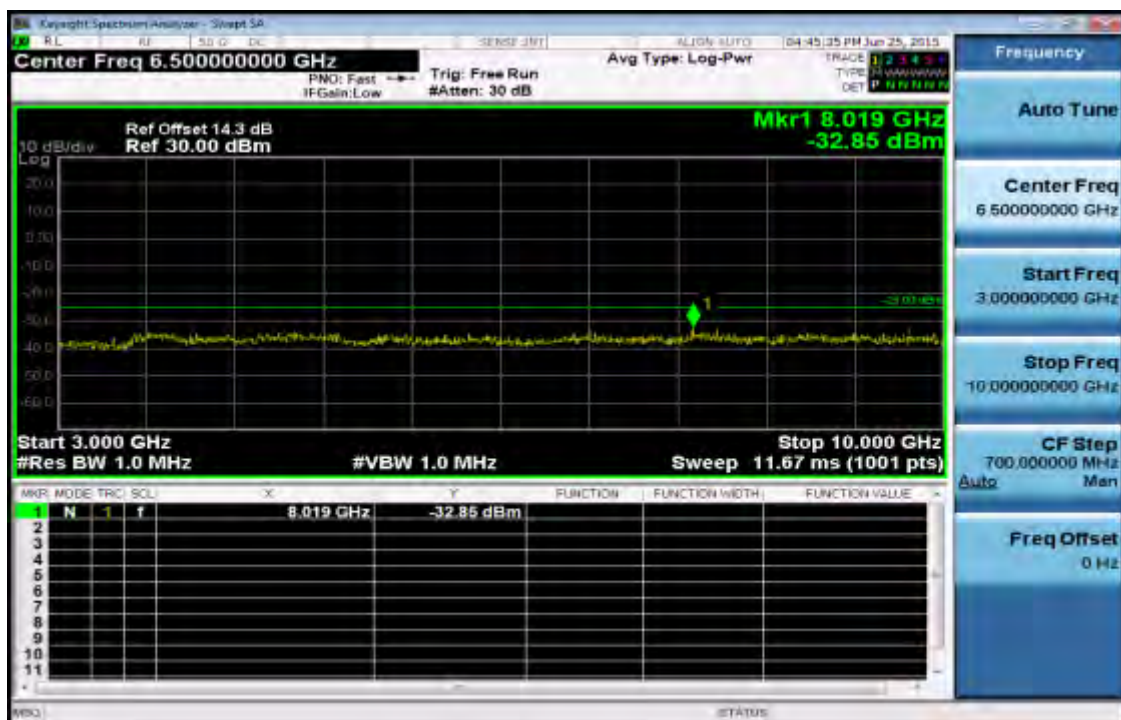
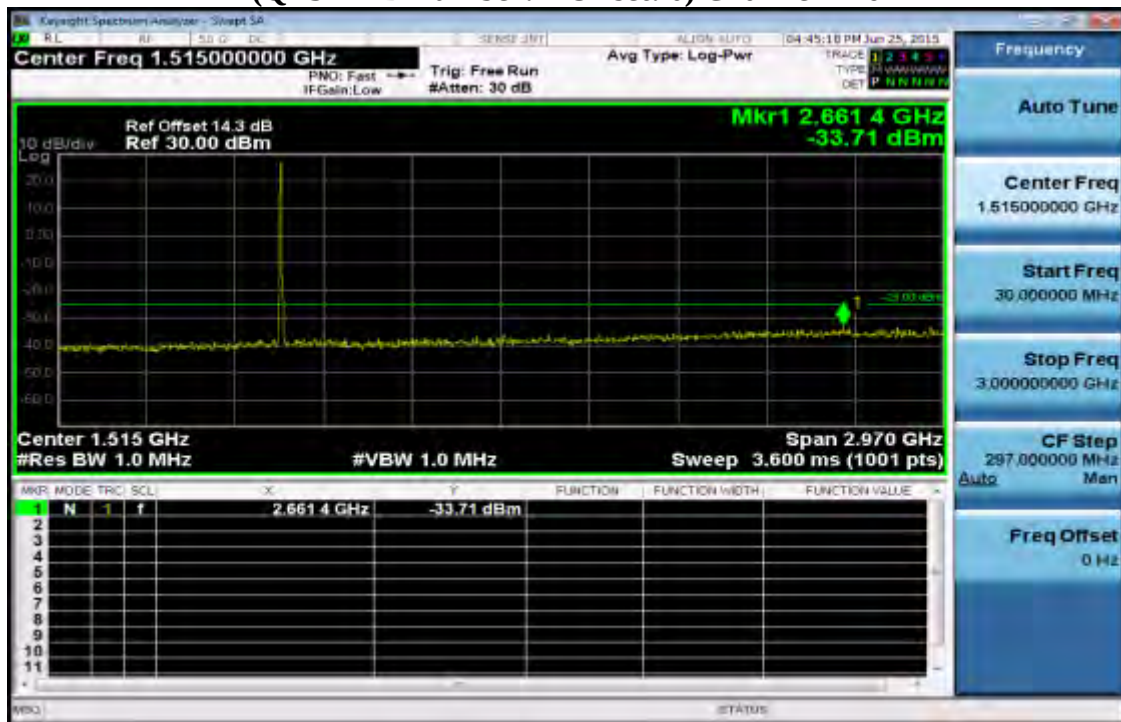
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Out of Band emission at antenna terminals–10MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Mid



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Band edge emission at antenna terminals –10MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –10MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 49) Channel Highest



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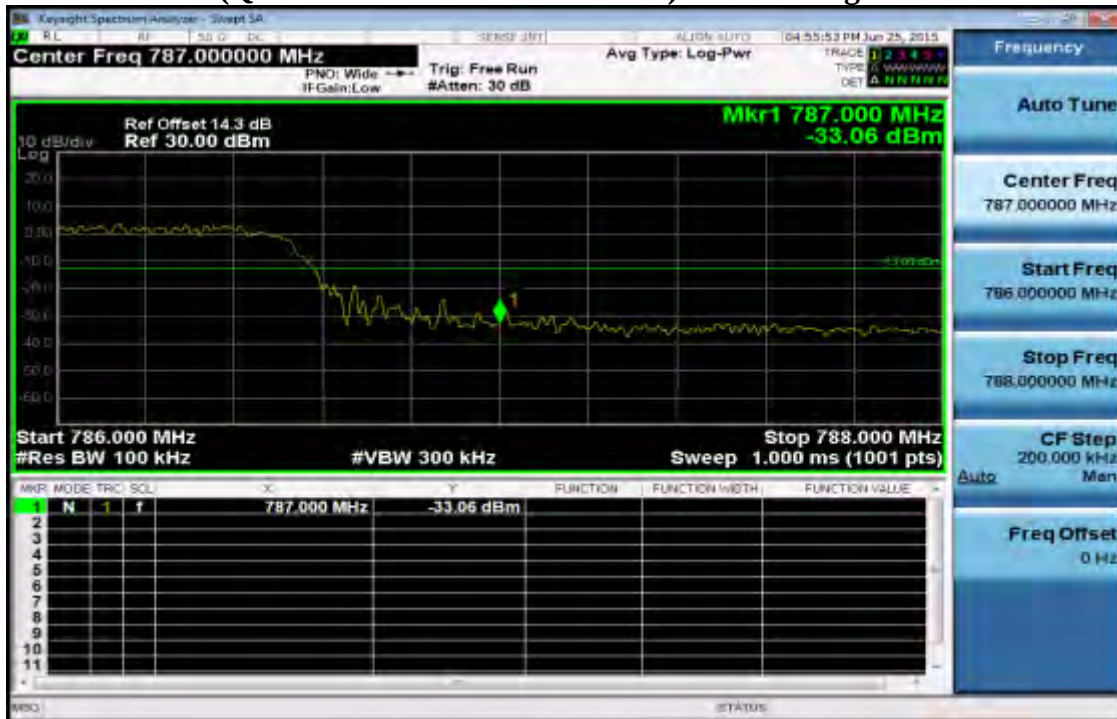
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Band edge emission at antenna terminals –10MHz BW LTE-Band 13 (QPSK RB Number: 50 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –10MHz BW LTE-Band 13 (QPSK RB Number: 50 Offset: 0) Channel Highest



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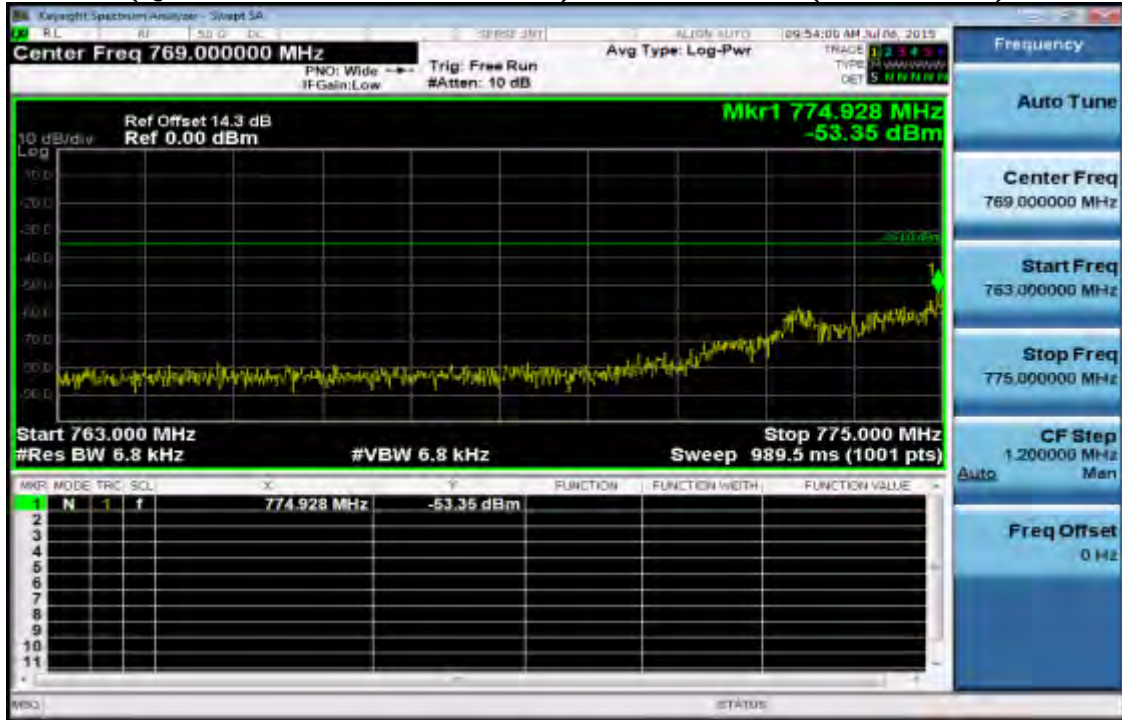
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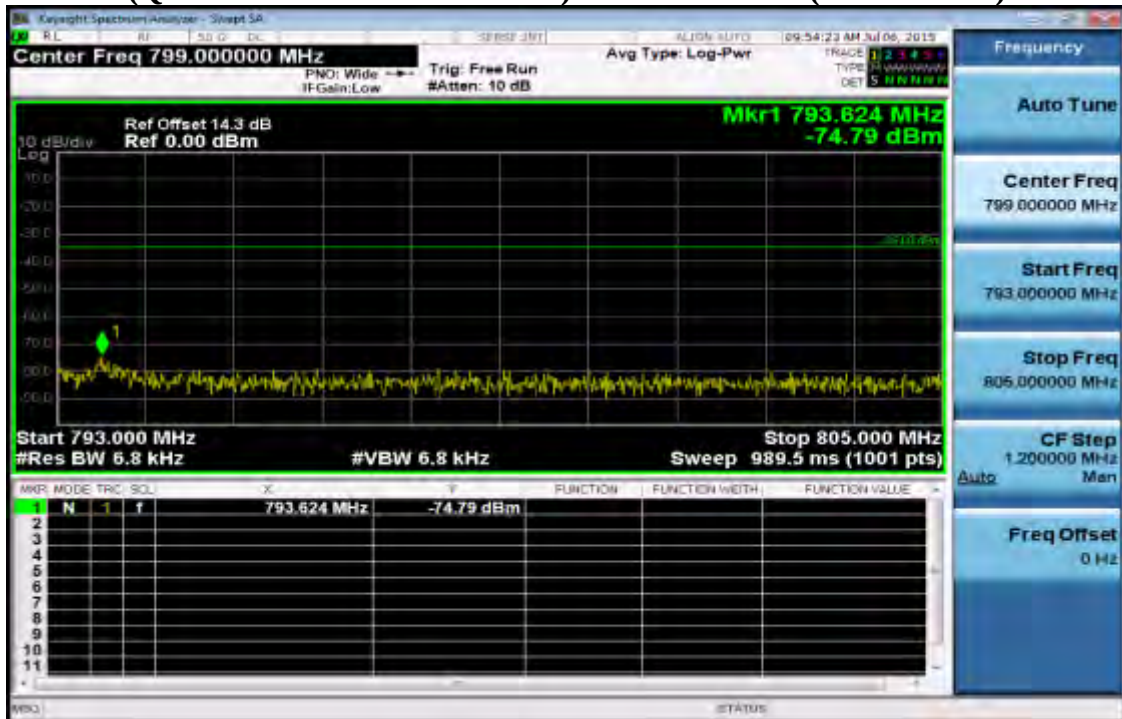
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**Out of Band emission at antenna terminals–5MHz BW LTE-Band 13
(QPSK RB Number: 1 Offset: 0) Channel Lowest (763-775MHz)**



**Out of Band emission at antenna terminals–5MHz BW LTE-Band 13
(QPSK RB Number: 1 Offset: 0) Channel Lowest (793-805MHz)**



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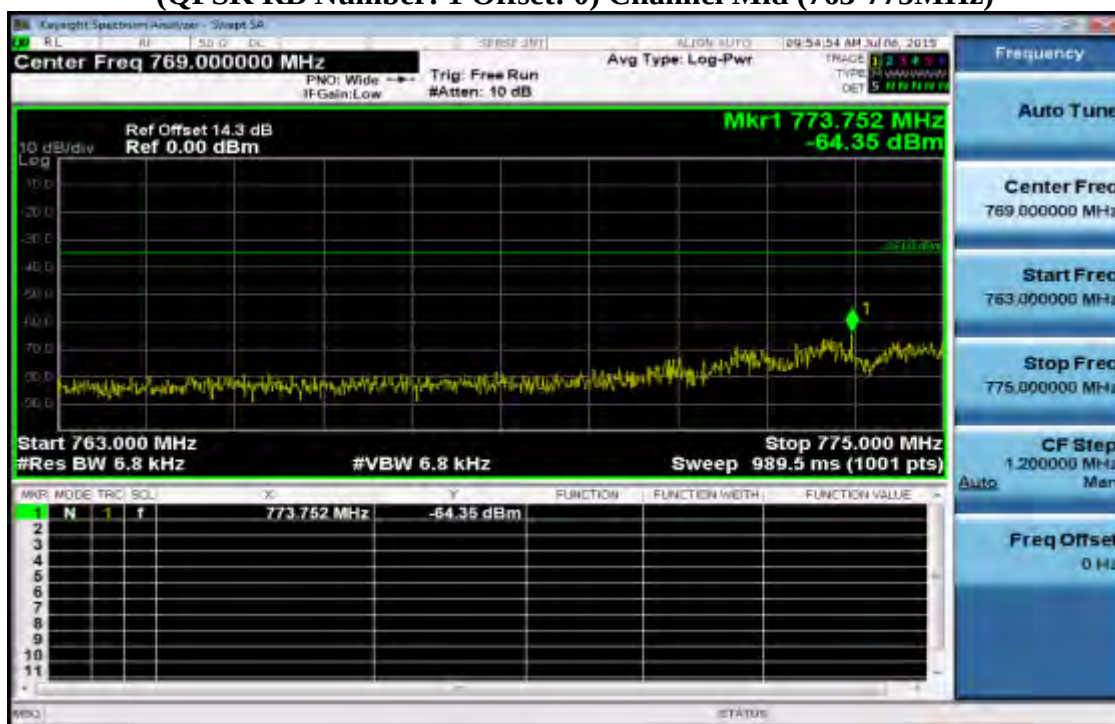
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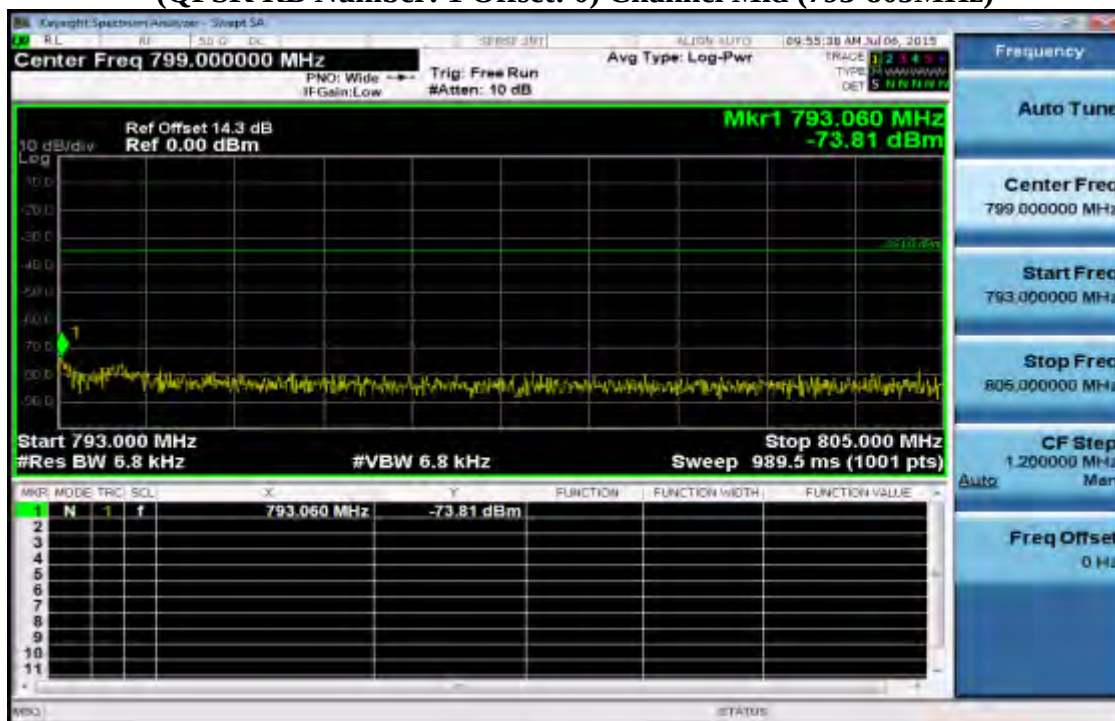
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Out of Band emission at antenna terminals –5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Mid (763-775MHz)



Out of Band emission at antenna terminals –5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Mid (793-805MHz)



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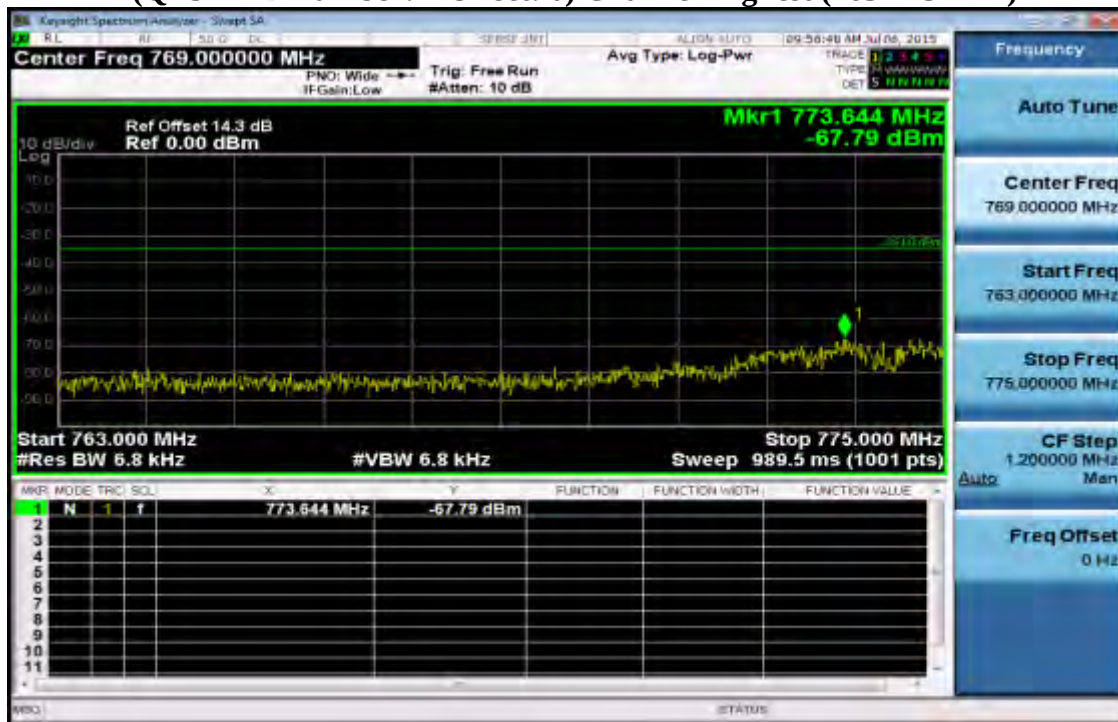
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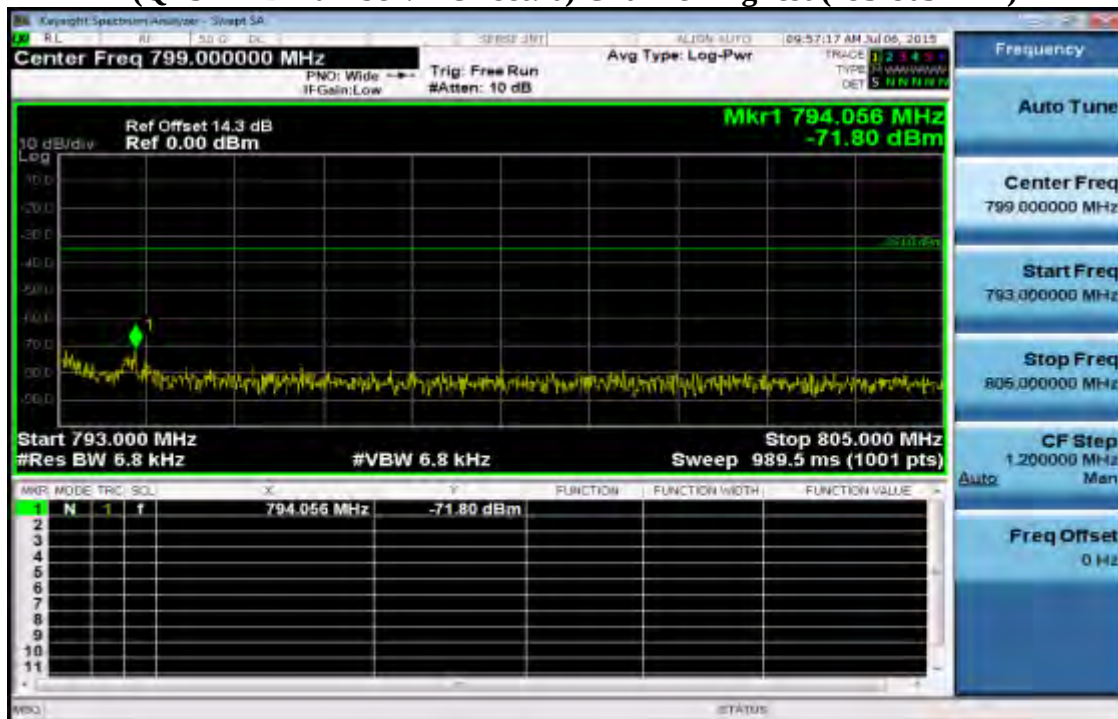
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Out of Band emission at antenna terminals–5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Highest (763-775MHz)



Out of Band emission at antenna terminals–5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Highest (793-805MHz)



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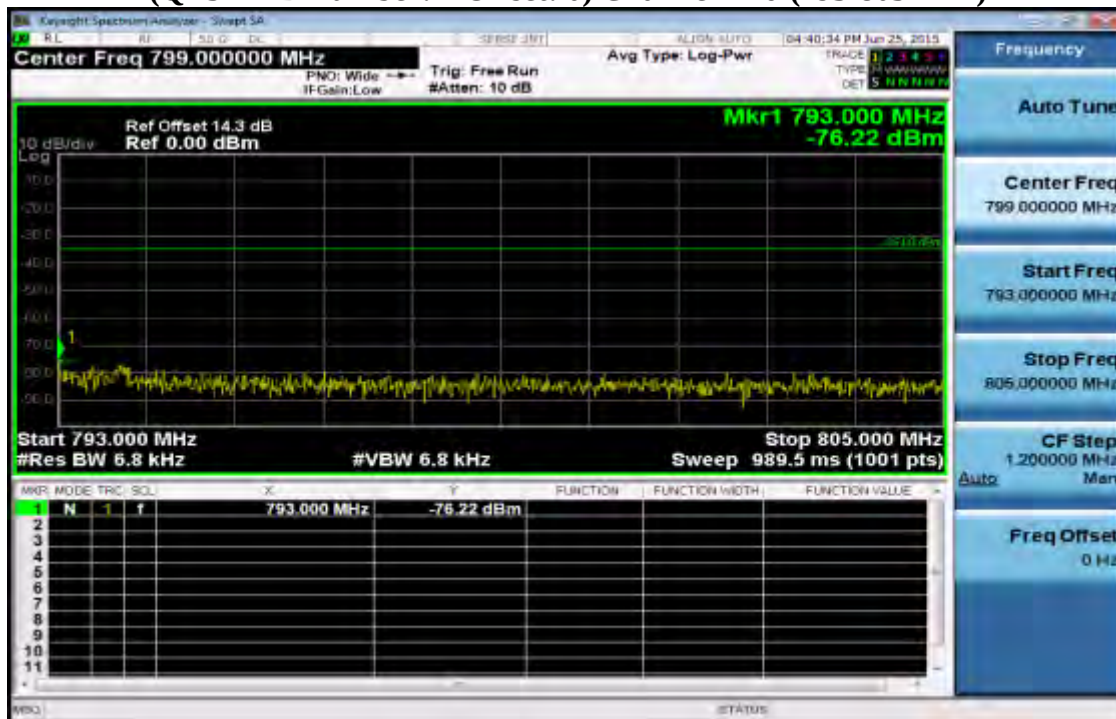
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Out of Band emission at antenna terminals–10MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Mid (763-775MHz)



Out of Band emission at antenna terminals–10MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Mid (793-805MHz)



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10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

10.1. Standard Applicable

According to FCC §2.1053,

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).

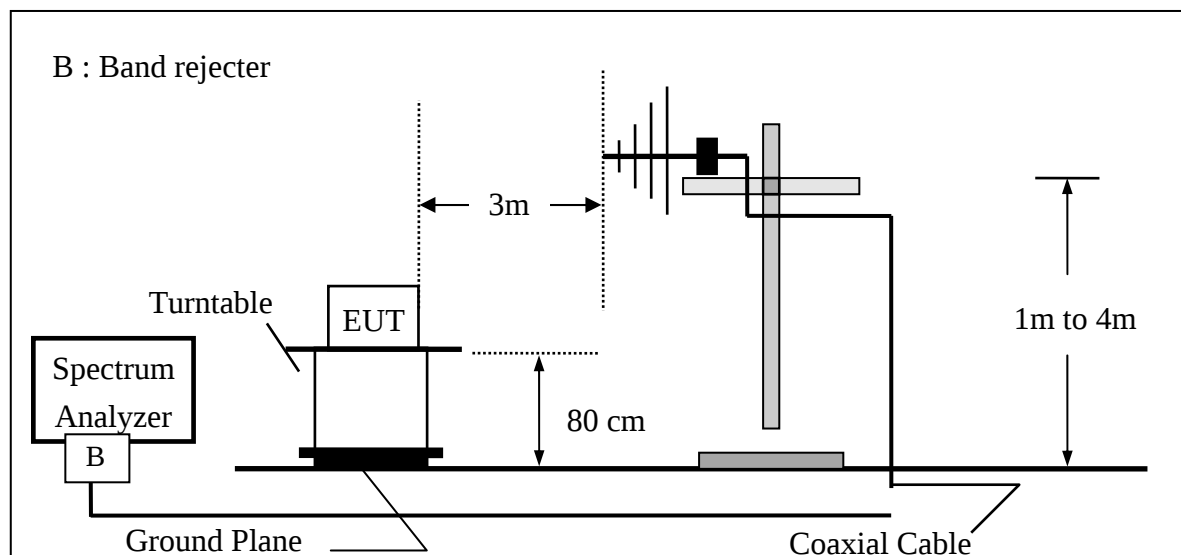
FCC §27.53 (m) (4) shall not be less than $55 + 10 \log$ (mean output power in watt) dBc below the mean power output outside a license's frequency block (-25dBm).

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

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

10.2. EUT Setup

(A) Radiated Emission Test Set-Up, Frequency from 30MHz to 1000MHz.



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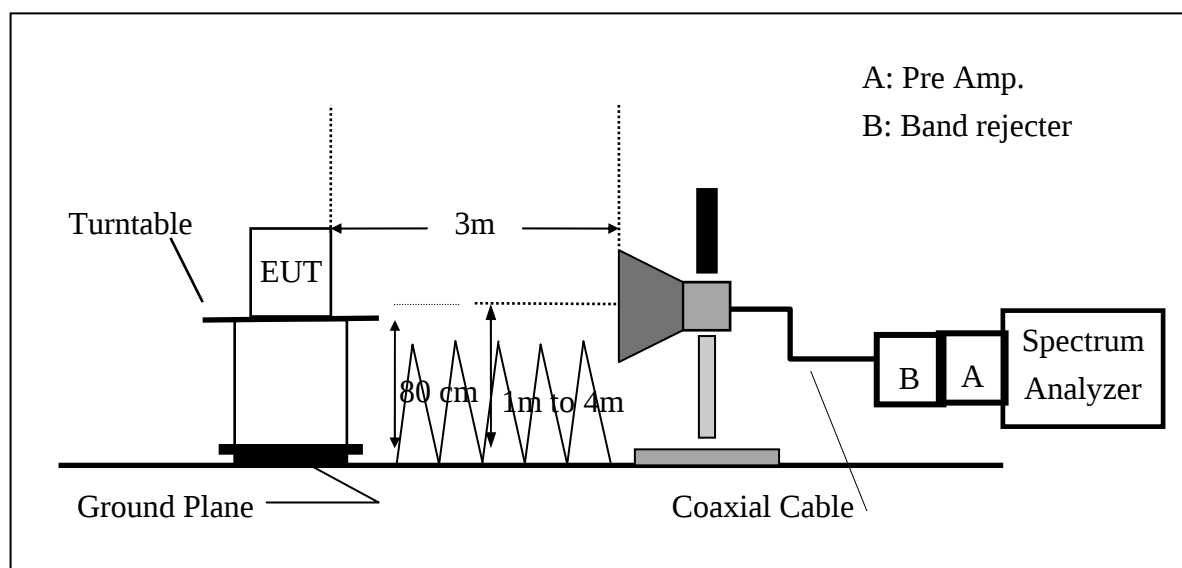
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



10.3. Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

$$ERP = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$$

$$EIRP = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$$

$$EIRP \text{ (dBm)} = \text{SG Level (dBm)} + \text{Antenna Gain (dBi)} + \text{Cable Loss (dB)}$$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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10.4. Measurement Equipment Used:

SGS 966 Chamber No.C					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESU 40	100363	04/09/2015	04/08/2016
Broadband Antenna	TESEQ	CBL 6112D	35240	12/05/2014	12/04/2015
Broadband Antenna	TESEQ	CBL 6112D	35243	11/14/2014	11/13/2015
Horn Antenna	ETS-Lindgren	3117	00143272	12/08/2014	12/07/2015
Horn Antenna	ETS-Lindgren	3117	00143280	09/23/2014	09/22/2015
Horn Antenna	ETS-Lindgren	3160-09	00117911	11/13/2014	11/12/2015
Horn Antenna	ETS-Lindgren	3160-09	00117910	11/13/2014	11/12/2015
Pre Amplifier	EMC Instruments	EMC330	980096	12/19/2014	12/18/2015
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/19/2014	12/18/2015
Pre Amplifier	R&S	SCU-18	10204	12/19/2014	12/18/2015
Pre Amplifier	R&S	SCU-26	100780	12/19/2014	12/18/2015
Pre Amplifier	EMC Instruments	EMC184045B	980135	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/19/2014	12/18/2015
Attenuator	WOKEN	218FS-10	RF27	12/19/2014	12/18/2015
Communication Tester	Anritsu	MT8820C	6201107337	05/27/2015	05/26/2016
Site NSA	SGS	966 Chamber C	SAC-C	03/04/2015	03/03/2016
Site VSWR	SGS	966 Chamber C	SAC-C	03/04/2015	03/03/2016
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2015	05/03/2016
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

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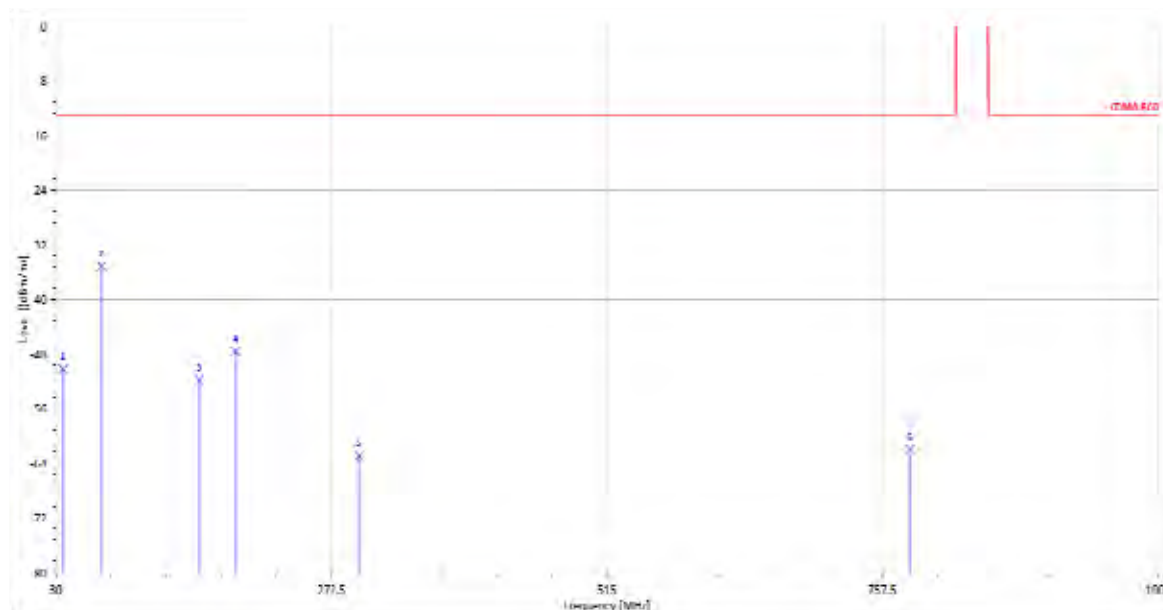
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10.5. Measurement Result:

Radiated Spurious Emission Measurement Result: EVDO BC0 Mode (Below 1GHz)

ARFCN	:CH 1013	Test Date	:2015-07-07
Operation Band	:EVDO 850	Temp./Humi.	:25.5 deg_C / 61 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
36.48	S	-50.25	-32.59	-16.96	-0.69	-13.00	-37.25
70.48	S	-35.17	-32.25	-1.93	-0.99	-13.00	-22.17
156.31	S	-51.88	-51.36	0.95	-1.47	-13.00	-38.88
188.70	S	-47.65	-50.11	4.08	-1.62	-13.00	-34.65
297.20	S	-62.93	-64.33	3.47	-2.07	-13.00	-49.93
781.39	S	-62.04	-63.91	5.20	-3.33	-13.00	-49.04

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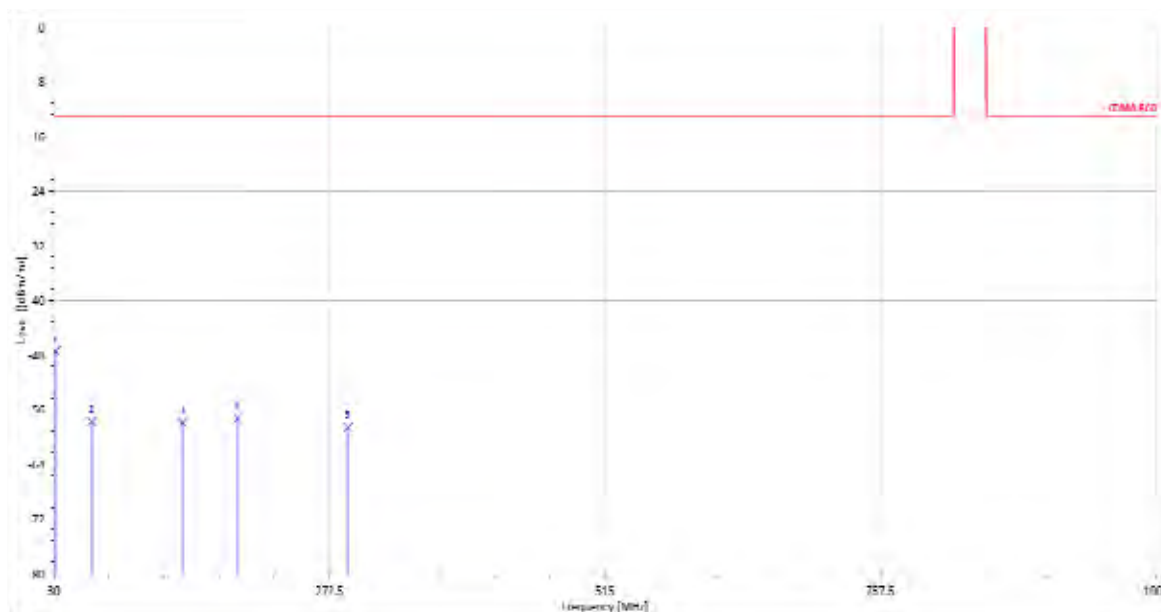
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ARFCN	:CH 1013	Test Date	:2015-07-07
Operation Band	:EVDO 850	Temp./Humi.	:25.5 deg_C / 61 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
31.62	S	-47.50	-25.72	-21.09	-0.69	-13.00	-34.50
64.01	S	-57.79	-54.12	-2.68	-0.99	-13.00	-44.79
143.36	S	-57.91	-55.69	-0.72	-1.51	-13.00	-44.91
191.94	S	-57.28	-59.72	4.07	-1.63	-13.00	-44.28
289.10	S	-58.67	-60.03	3.40	-2.04	-13.00	-45.67

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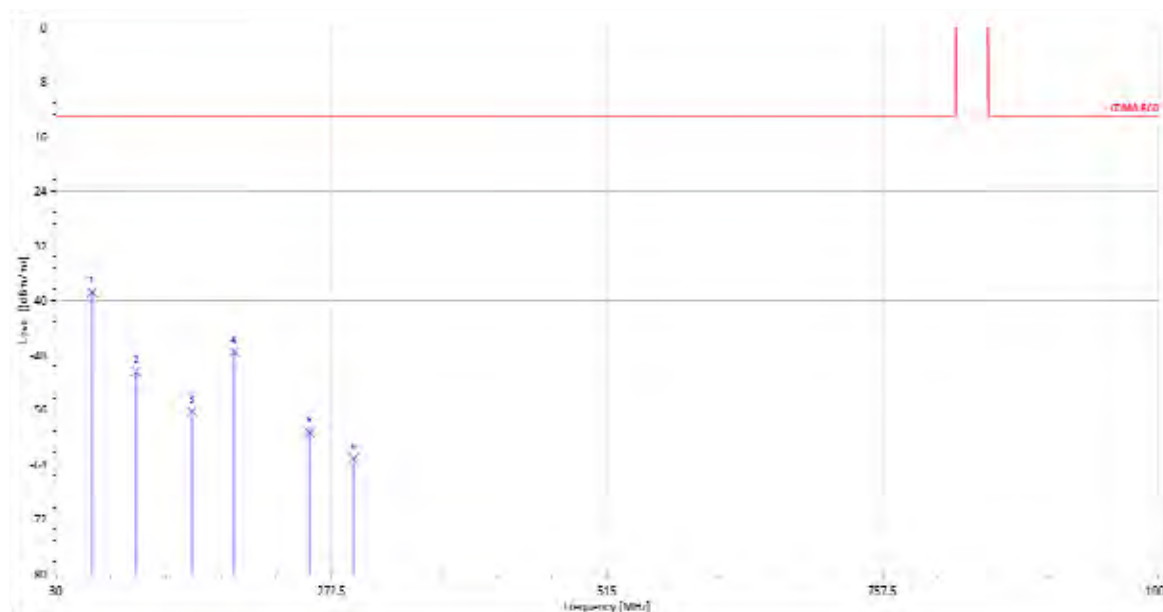
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ARFCN	:CH 384	Test Date	:2015-07-07
Operation Band	:EVDO 850	Temp./Humi.	:25.5 deg_C / 61 RH
Fundamental Frequency	:836.52 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
62.39	S	-38.86	-35.01	-2.88	-0.96	-13.00	-25.86
101.25	S	-50.45	-45.88	-3.37	-1.20	-13.00	-37.45
149.83	S	-56.35	-55.17	0.25	-1.43	-13.00	-43.35
187.08	S	-47.62	-49.95	4.00	-1.67	-13.00	-34.62
253.47	S	-59.41	-60.06	2.56	-1.91	-13.00	-46.41
292.34	S	-63.23	-64.61	3.43	-2.05	-13.00	-50.23

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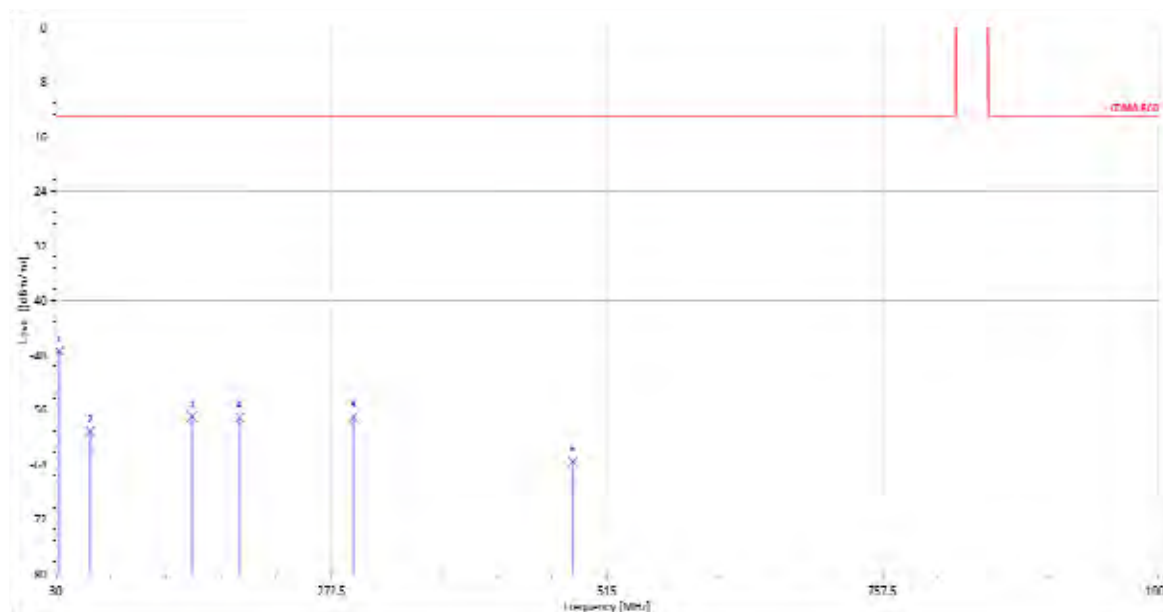
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ARFCN	:CH 384	Test Date	:2015-07-07
Operation Band	:EVDO 850	Temp./Humi.	:25.5 deg_C / 61 RH
Fundamental Frequency	:836.52 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
33.24	S	-47.50	-27.10	-19.69	-0.70	-13.00	-34.50
60.77	S	-59.24	-55.21	-3.08	-0.95	-13.00	-46.24
149.83	S	-57.05	-55.88	0.25	-1.43	-13.00	-44.05
191.94	S	-57.20	-59.64	4.07	-1.63	-13.00	-44.20
292.34	S	-57.13	-58.51	3.43	-2.05	-13.00	-44.13
485.04	S	-63.61	-64.98	3.91	-2.55	-13.00	-50.61

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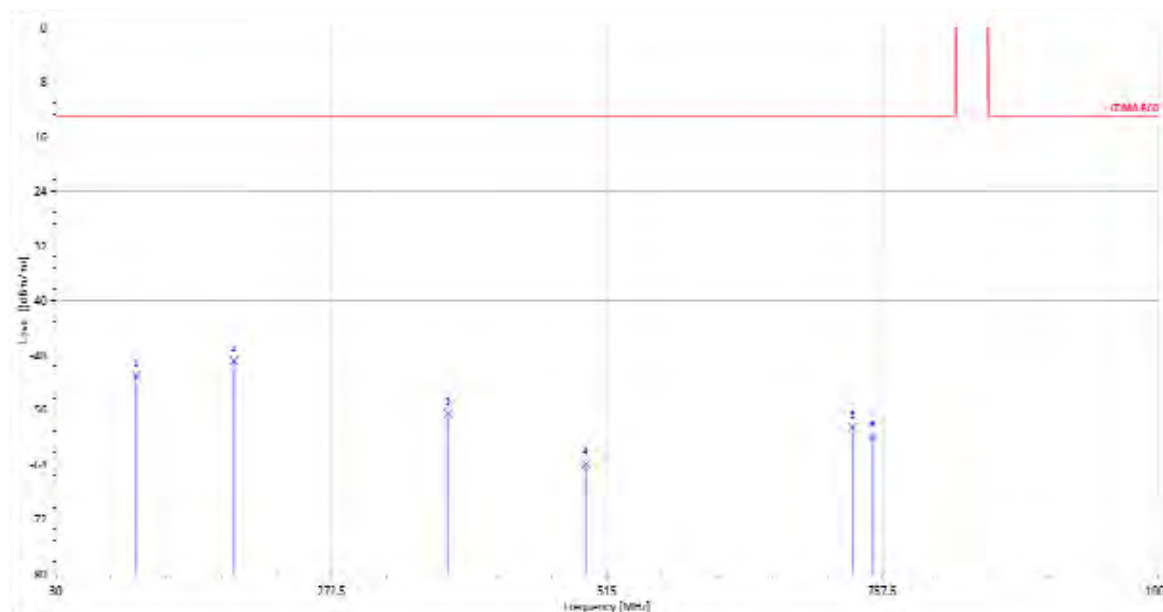
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ARFCN	:CH 777	Test Date	:2015-07-07
Operation Band	:EVDO 850	Temp./Humi.	:25.5 deg_C / 61 RH
Fundamental Frequency	:848.31 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
101.25	S	-51.08	-46.50	-3.37	-1.20	-13.00	-38.08
187.08	S	-48.86	-51.19	4.00	-1.67	-13.00	-35.86
374.92	S	-56.63	-57.59	3.32	-2.35	-13.00	-43.63
496.38	S	-64.00	-65.23	4.01	-2.78	-13.00	-51.00
731.19	S	-58.60	-60.58	5.12	-3.15	-13.00	-45.60
749.00	S	-60.02	-61.84	5.16	-3.34	-13.00	-47.02

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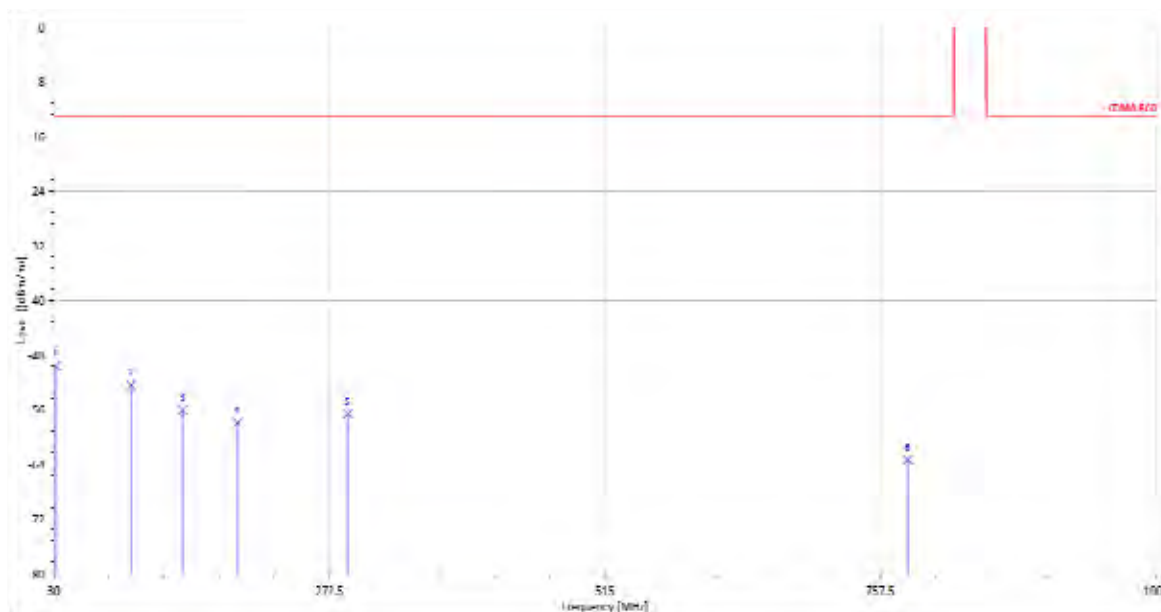
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ARFCN	:CH 777	Test Date	:2015-07-07
Operation Band	:EVDO 850	Temp./Humi.	:25.5 deg_C / 61 RH
Fundamental Frequency	:848.31 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
31.62	S	-49.64	-27.86	-21.09	-0.69	-13.00	-36.64
98.01	S	-52.42	-48.10	-3.13	-1.19	-13.00	-39.42
143.36	S	-56.11	-53.89	-0.72	-1.51	-13.00	-43.11
191.94	S	-57.93	-60.37	4.07	-1.63	-13.00	-44.93
289.10	S	-56.68	-58.04	3.40	-2.04	-13.00	-43.68
781.39	S	-63.36	-65.23	5.20	-3.33	-13.00	-50.36

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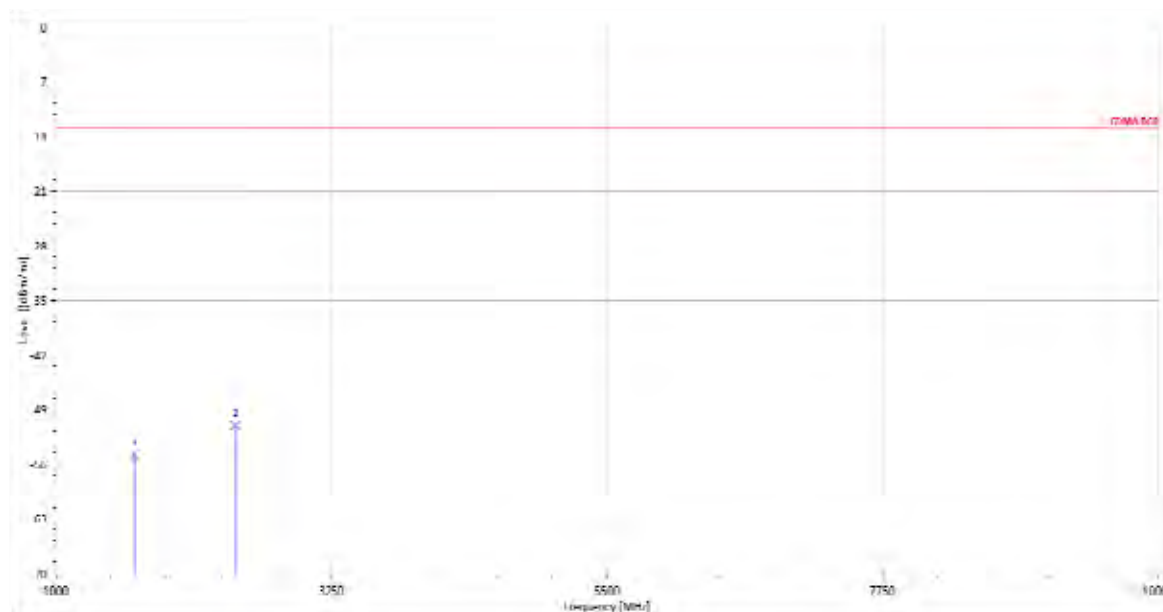
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Radiated Spurious Emission Measurement Result: EVDO BC0 Mode (Above 1GHz)

ARFCN	:CH 1013	Test Date	:2015-07-07
Operation Band	:EVDO 850	Temp./Humi.	:25.5 deg_C / 61 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
1649.40	H	-54.88	-53.48	3.70	-5.10	-13.00	-41.88
2474.10	H	-51.06	-48.84	3.61	-5.82	-13.00	-38.06

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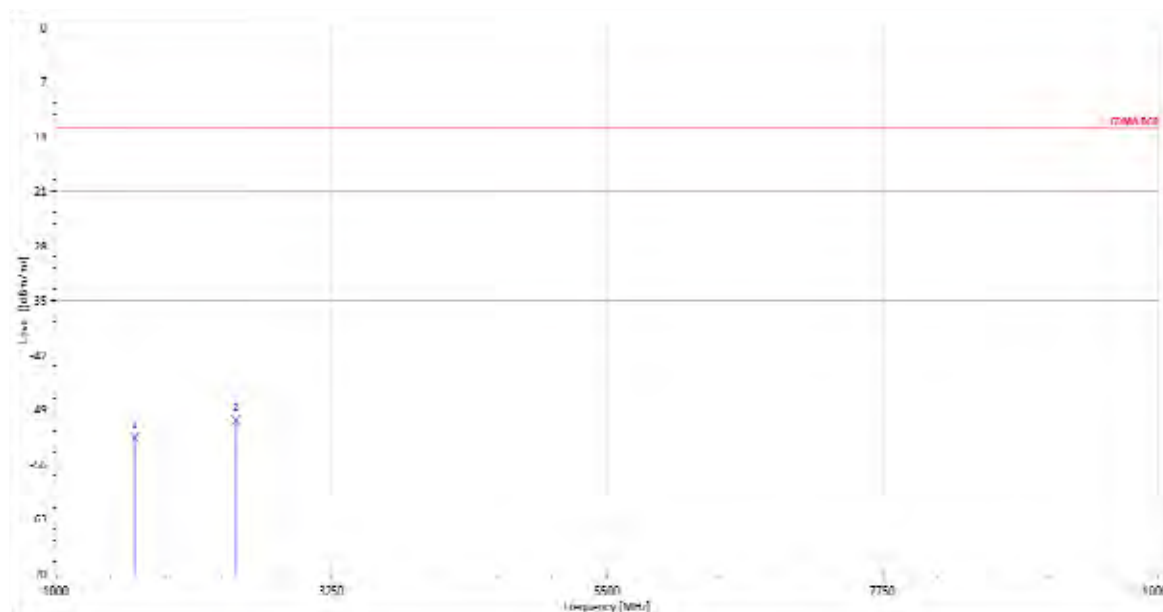
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ARFCN	:CH 1013	Test Date	:2015-07-07
Operation Band	:EVDO 850	Temp./Humi.	:25.5 deg_C / 61 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
1649.40	H	-52.61	-51.21	3.70	-5.10	-13.00	-39.61
2474.10	H	-50.38	-48.16	3.61	-5.82	-13.00	-37.38

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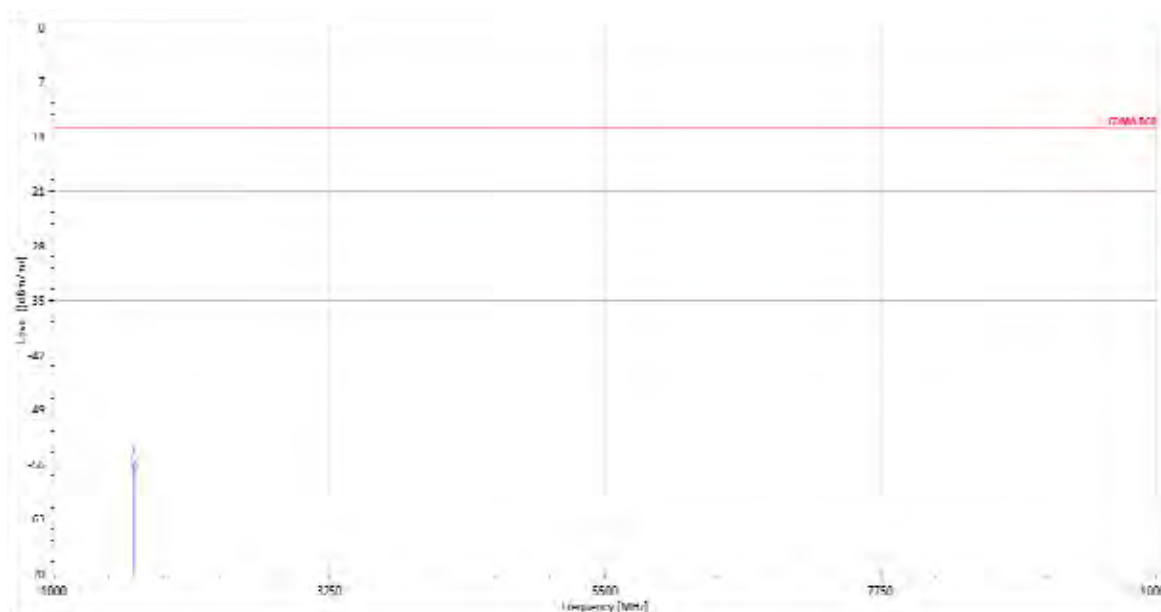
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ARFCN	:CH 384	Test Date	:2015-07-07
Operation Band	:EVDO 850	Temp./Humi.	:25.5 deg_C / 61 RH
Fundamental Frequency	:836.52 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
1673.04	H	-55.85	-54.36	3.66	-5.15	-13.00	-42.85

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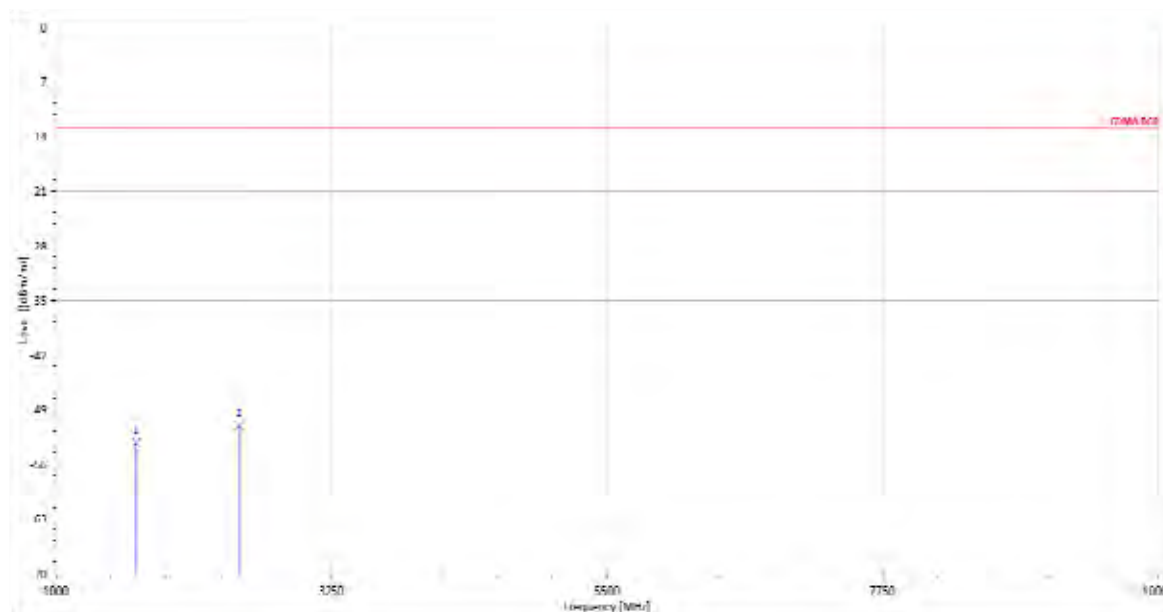
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ARFCN	:CH 384	Test Date	:2015-07-07
Operation Band	:EVDO 850	Temp./Humi.	:25.5 deg_C / 61 RH
Fundamental Frequency	:836.52 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
1673.04	H	-53.28	-51.79	3.66	-5.15	-13.00	-40.28
2509.56	H	-51.10	-48.91	3.66	-5.85	-13.00	-38.10

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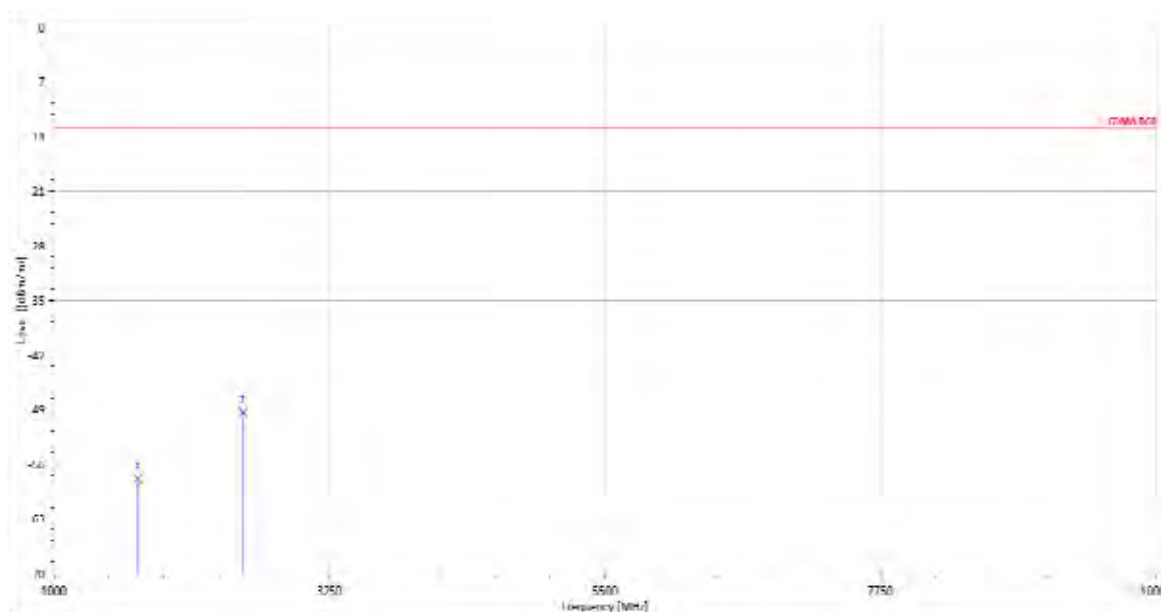
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ARFCN	:CH 777	Test Date	:2015-07-07
Operation Band	:EVDO 850	Temp./Humi.	:25.5 deg_C / 61 RH
Fundamental Frequency	:848.31 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
1696.62	H	-57.86	-56.30	3.59	-5.15	-13.00	-44.86
2544.93	H	-49.42	-47.33	3.76	-5.85	-13.00	-36.42

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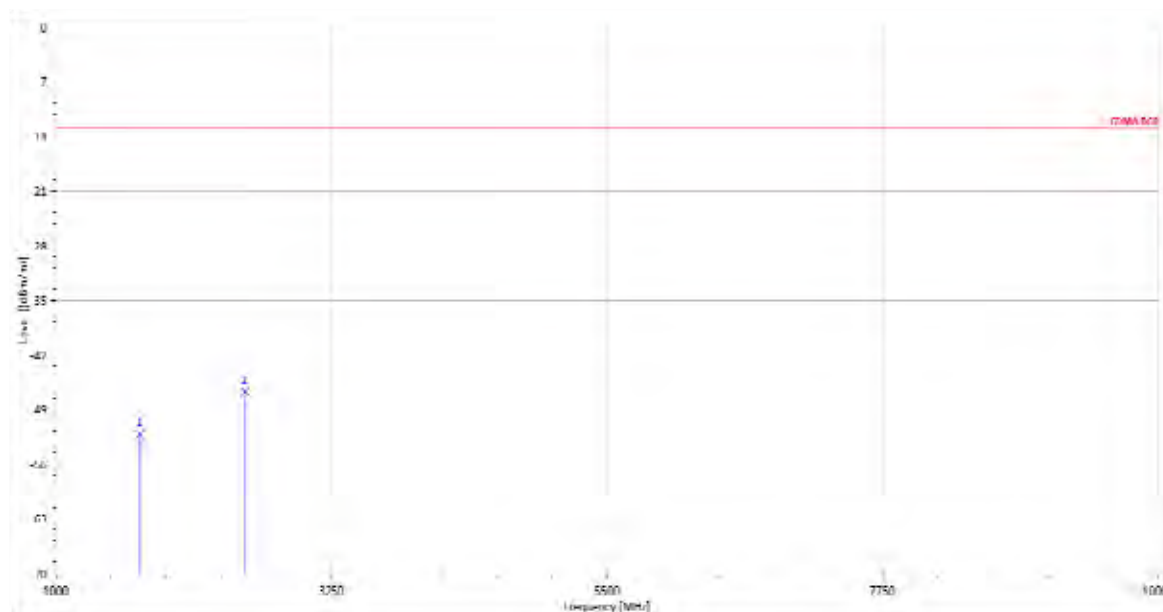
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ARFCN	:CH 777	Test Date	:2015-07-07
Operation Band	:EVDO 850	Temp./Humi.	:25.5 deg_C / 61 RH
Fundamental Frequency	:848.31 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
1696.62	H	-52.21	-50.65	3.59	-5.15	-13.00	-39.21
2544.93	H	-46.78	-44.69	3.76	-5.85	-13.00	-33.78

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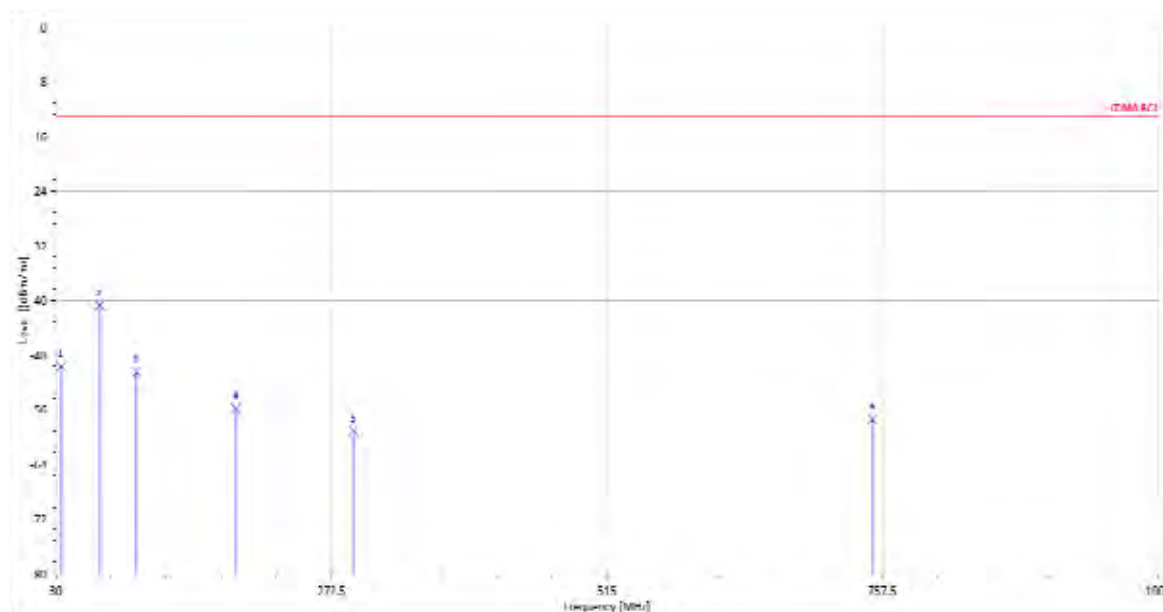
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Radiated Spurious Emission Measurement Result: EVDO BC1 Mode (Below 1GHz)

ARFCN	:CH 25	Test Date	:2015-07-07
Operation Band	:EVDO 1900	Temp./Humi.	:25.5 deg_C / 61 RH
Fundamental Frequency	:1851.25 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
34.86	S	-49.74	-32.89	-16.13	-0.72	-13.00	-36.74
68.86	S	-40.76	-39.80	0.07	-1.03	-13.00	-27.76
101.25	S	-50.56	-48.13	-1.22	-1.20	-13.00	-37.56
188.70	S	-55.87	-60.48	6.23	-1.62	-13.00	-42.87
292.34	S	-59.16	-62.69	5.58	-2.05	-13.00	-46.16
749.00	S	-57.46	-61.43	7.31	-3.34	-13.00	-44.46

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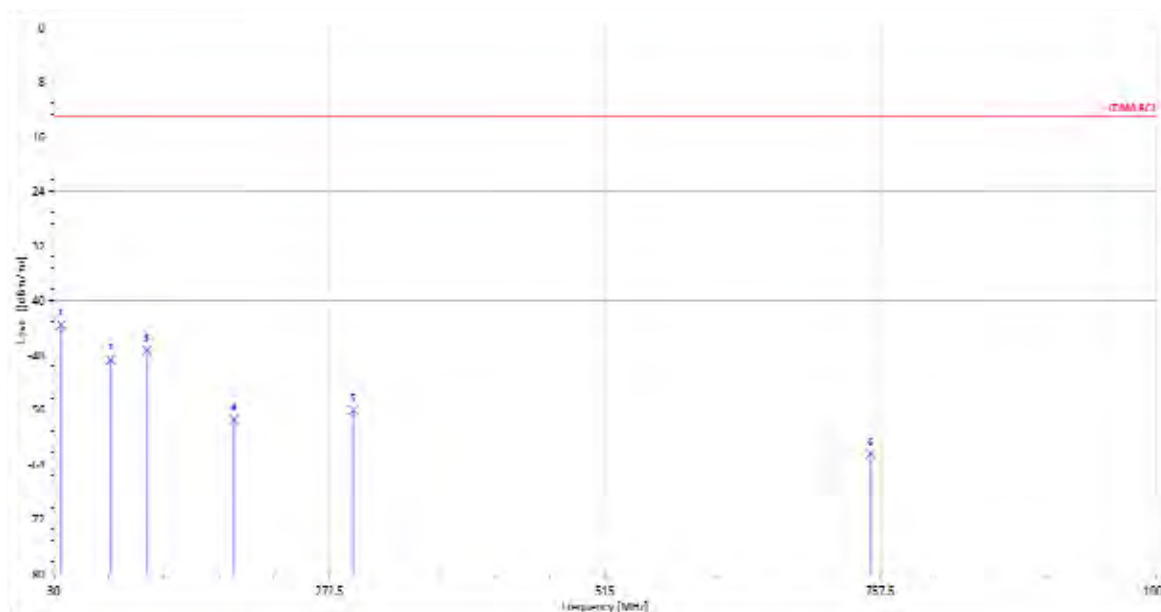
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ARFCN	:CH 25	Test Date	:2015-07-07
Operation Band	:EVDO 1900	Temp./Humi.	:25.5 deg_C / 61 RH
Fundamental Frequency	:1851.25 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
36.48	S	-43.60	-28.09	-14.81	-0.69	-13.00	-30.60
80.20	S	-48.71	-48.10	0.46	-1.06	-13.00	-35.71
112.59	S	-47.34	-44.70	-1.37	-1.27	-13.00	-34.34
188.70	S	-57.50	-62.11	6.23	-1.62	-13.00	-44.50
293.96	S	-56.13	-59.67	5.60	-2.06	-13.00	-43.13
749.00	S	-62.48	-66.45	7.31	-3.34	-13.00	-49.48

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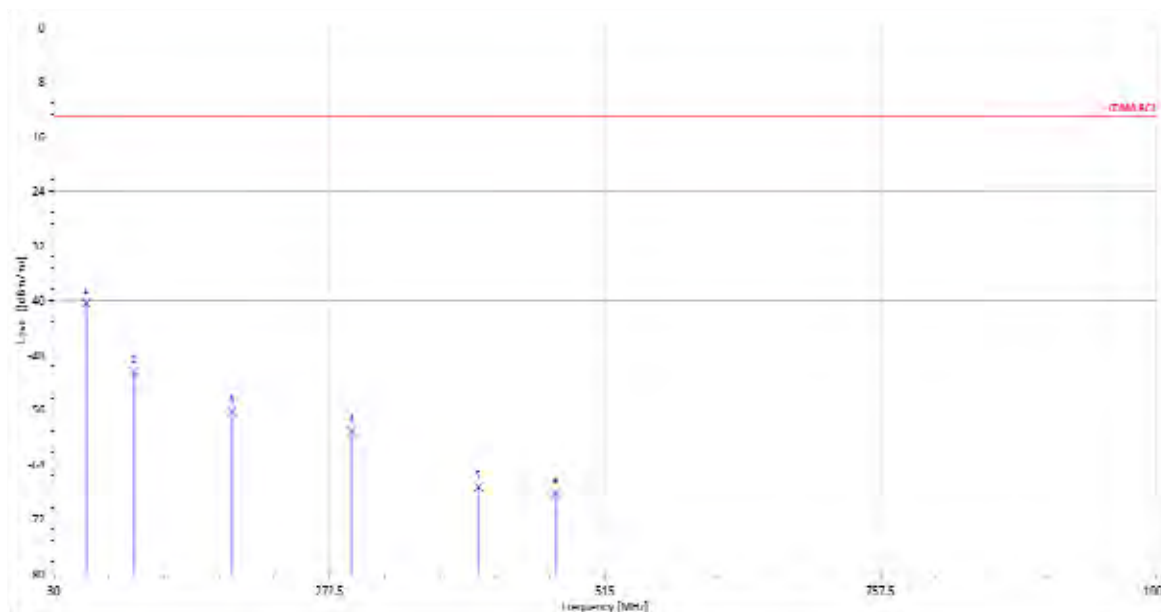
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ARFCN	:CH 600	Test Date	:2015-07-07
Operation Band	:EVDO 1900	Temp./Humi.	:25.5 deg_C / 61 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
59.15	S	-40.40	-38.08	-1.37	-0.95	-13.00	-27.40
101.25	S	-50.42	-48.00	-1.22	-1.20	-13.00	-37.42
187.08	S	-56.37	-60.85	6.15	-1.67	-13.00	-43.37
292.34	S	-59.23	-62.76	5.58	-2.05	-13.00	-46.23
404.07	S	-67.45	-70.35	5.38	-2.49	-13.00	-54.45
472.09	S	-68.37	-71.76	5.96	-2.56	-13.00	-55.37

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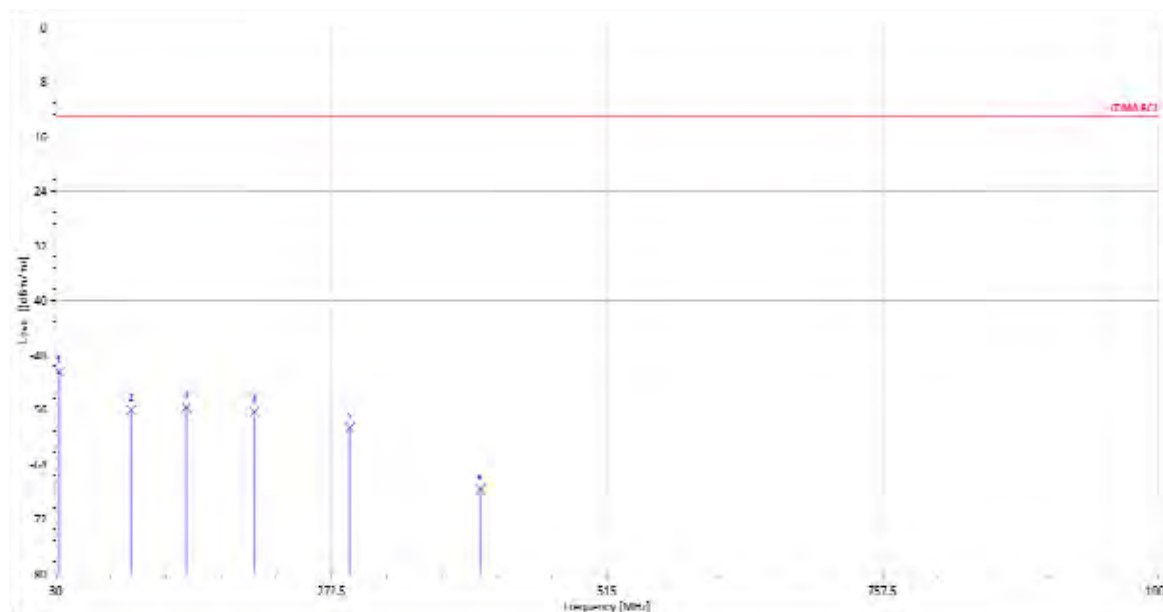
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ARFCN	:CH 600	Test Date	:2015-07-07
Operation Band	:EVDO 1900	Temp./Humi.	:25.5 deg_C / 61 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
33.24	S	-50.57	-32.33	-17.54	-0.70	-13.00	-37.57
96.39	S	-56.08	-54.11	-0.80	-1.17	-13.00	-43.08
144.98	S	-55.72	-55.88	1.68	-1.51	-13.00	-42.72
204.89	S	-56.40	-60.69	6.04	-1.74	-13.00	-43.40
289.10	S	-58.70	-62.21	5.55	-2.04	-13.00	-45.70
404.07	S	-67.76	-70.66	5.38	-2.49	-13.00	-54.76

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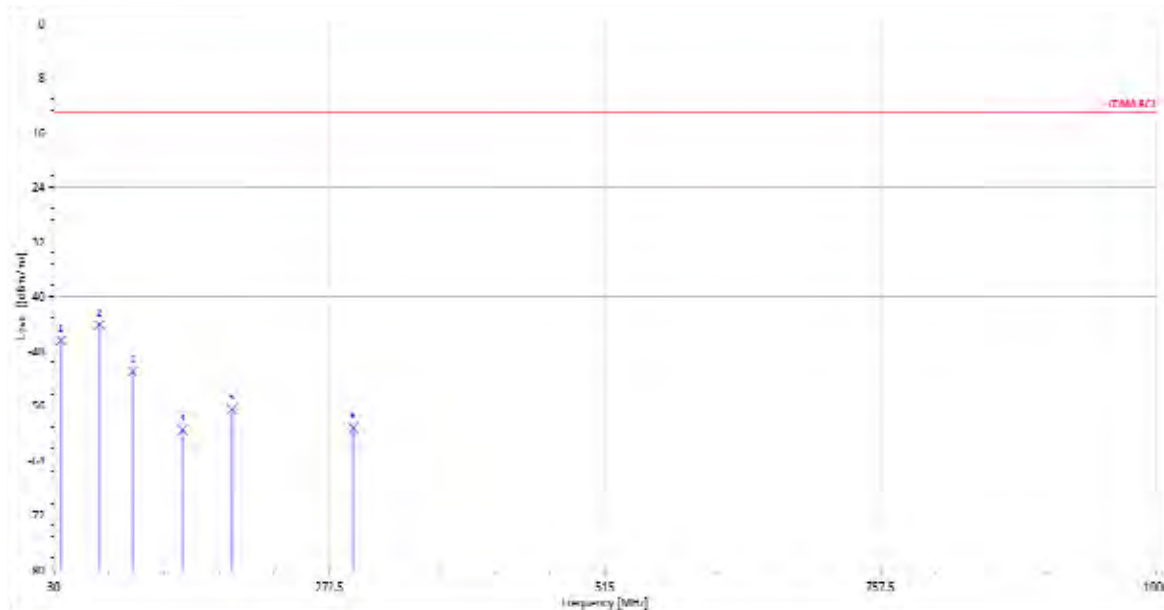
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ARFCN	:CH 1175	Test Date	:2015-07-07
Operation Band	:EVDO 1900	Temp./Humi.	:25.5 deg_C / 61 RH
Fundamental Frequency	:1908.75 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
36.48	S	-46.48	-30.97	-14.81	-0.69	-13.00	-33.48
70.48	S	-44.18	-43.41	0.22	-0.99	-13.00	-31.18
99.63	S	-51.02	-48.67	-1.15	-1.20	-13.00	-38.02
143.36	S	-59.60	-59.53	1.43	-1.51	-13.00	-46.60
187.08	S	-56.59	-61.07	6.15	-1.67	-13.00	-43.59
293.96	S	-59.35	-62.88	5.60	-2.06	-13.00	-46.35

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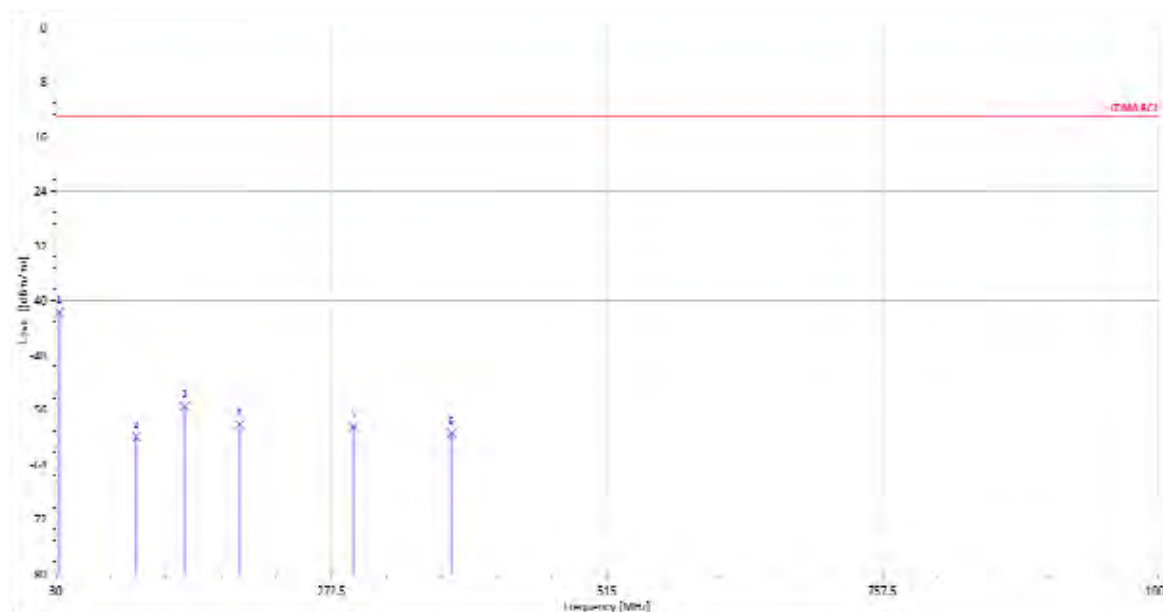
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ARFCN	:CH 1175	Test Date	:2015-07-07
Operation Band	:EVDO 1900	Temp./Humi.	:25.5 deg_C / 61 RH
Fundamental Frequency	:1908.75 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
33.24	S	-41.77	-23.52	-17.54	-0.70	-13.00	-28.77
101.25	S	-60.05	-57.62	-1.22	-1.20	-13.00	-47.05
143.36	S	-55.57	-55.50	1.43	-1.51	-13.00	-42.57
191.94	S	-58.21	-62.80	6.22	-1.63	-13.00	-45.21
292.34	S	-58.48	-62.00	5.58	-2.05	-13.00	-45.48
378.16	S	-59.50	-62.64	5.45	-2.31	-13.00	-46.50

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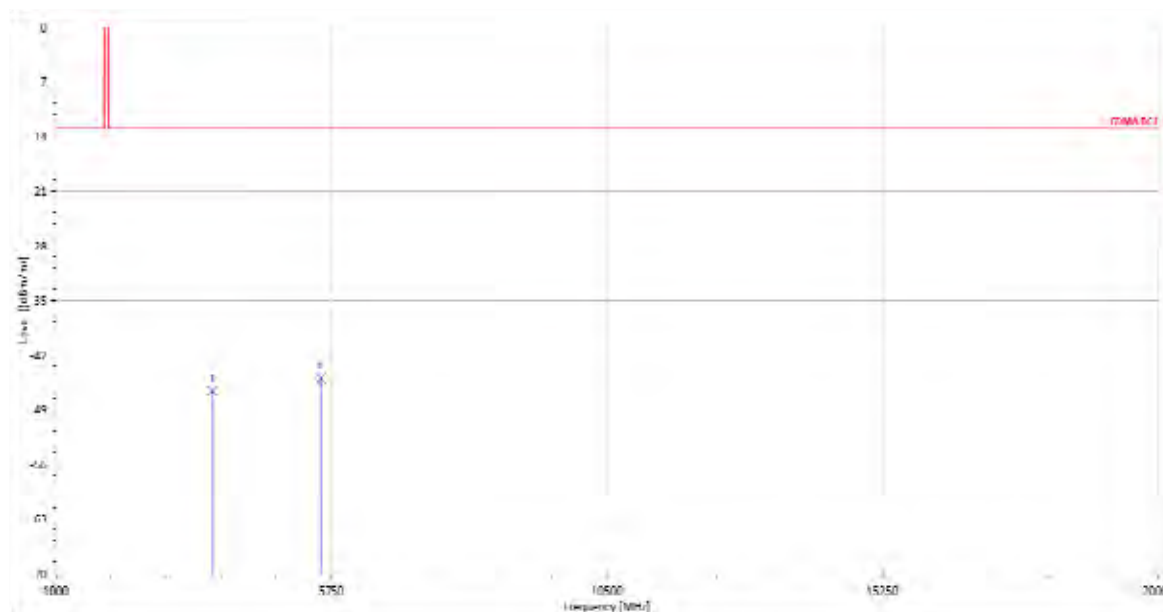
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Radiated Spurious Emission Measurement Result: EVDO BC1 Mode (Above 1GHz)

ARFCN	:CH 25	Test Date	:2015-07-07
Operation Band	:EVDO 1900	Temp./Humi.	:25.5 deg_C / 61 RH
Fundamental Frequency	:1851.25 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
3702.50	H	-46.69	-48.48	8.68	-6.90	-13.00	-33.69
5553.75	H	-45.02	-47.59	10.33	-7.76	-13.00	-32.02

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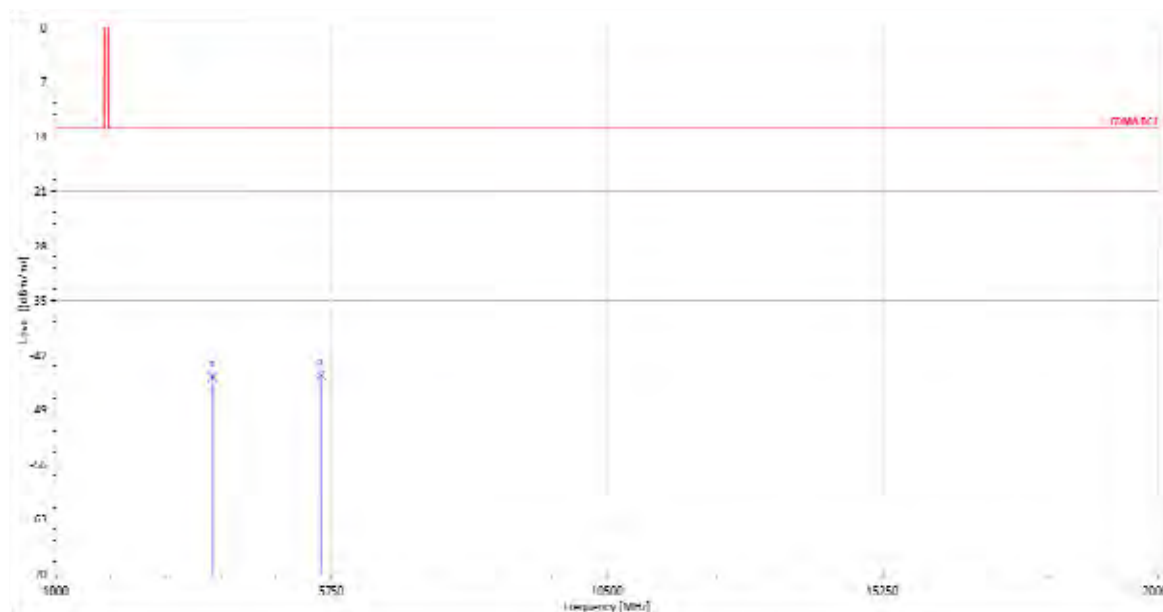
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ARFCN	:CH 25	Test Date	:2015-07-07
Operation Band	:EVDO 1900	Temp./Humi.	:25.5 deg_C / 61 RH
Fundamental Frequency	:1851.25 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
3702.50	H	-44.81	-46.59	8.68	-6.90	-13.00	-31.81
5553.75	H	-44.62	-47.19	10.33	-7.76	-13.00	-31.62

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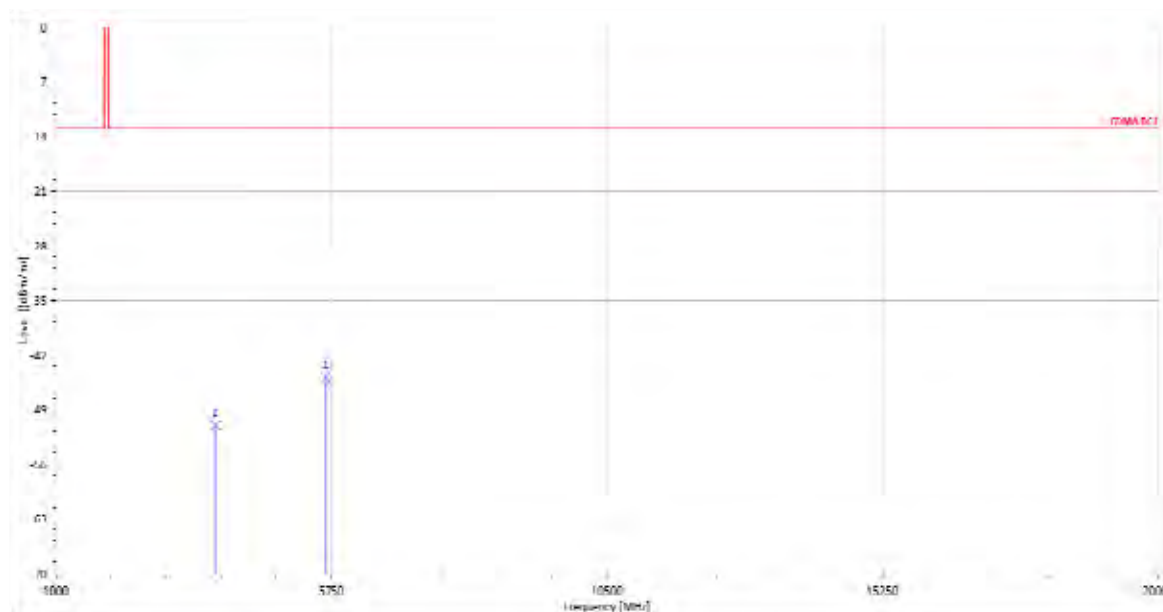
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ARFCN	:CH 600	Test Date	:2015-07-07
Operation Band	:EVDO 1900	Temp./Humi.	:25.5 deg_C / 61 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
3760.00	H	-51.04	-52.90	8.70	-6.83	-13.00	-38.04
5640.00	H	-44.91	-47.28	10.36	-7.98	-13.00	-31.91

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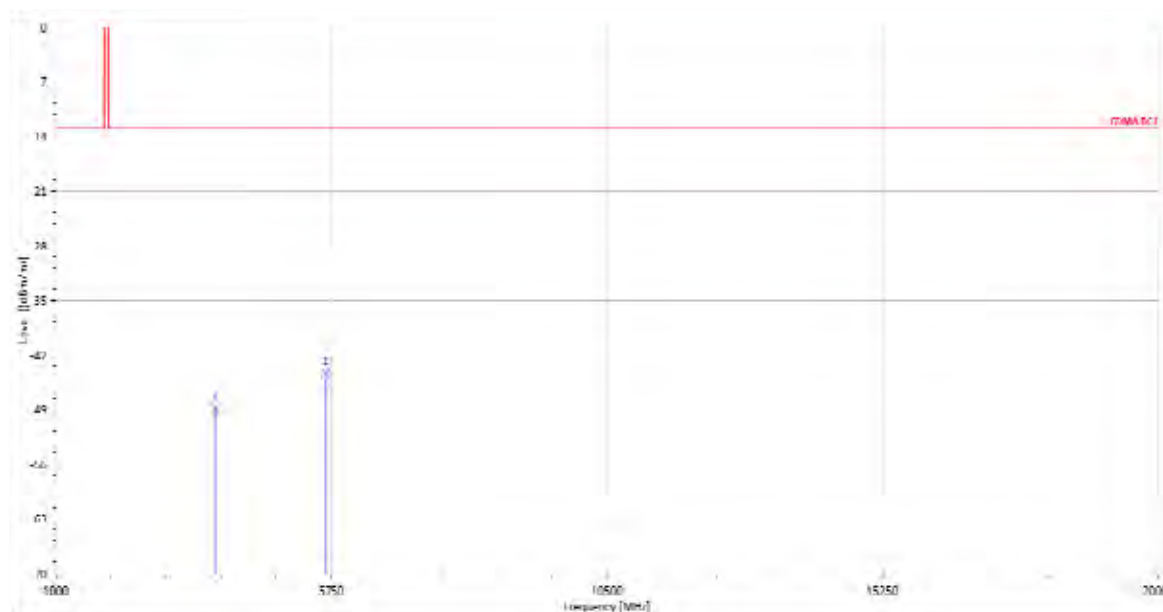
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ARFCN	:CH 600	Test Date	:2015-07-07
Operation Band	:EVDO 1900	Temp./Humi.	:25.5 deg_C / 61 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
3760.00	H	-49.00	-50.87	8.70	-6.83	-13.00	-36.00
5640.00	H	-44.40	-46.77	10.36	-7.98	-13.00	-31.40

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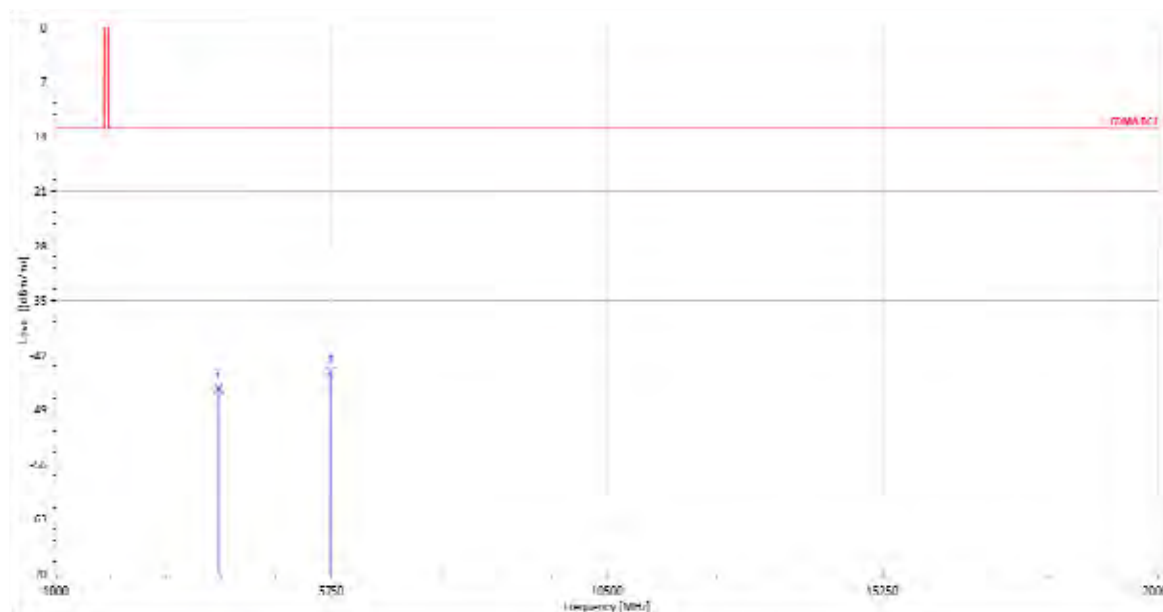
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ARFCN	:CH 1175	Test Date	:2015-07-07
Operation Band	:EVDO 1900	Temp./Humi.	:25.5 deg_C / 61 RH
Fundamental Frequency	:1908.75 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
3817.50	H	-46.31	-48.11	8.73	-6.92	-13.00	-33.31
5726.25	H	-44.22	-46.42	10.39	-8.19	-13.00	-31.22

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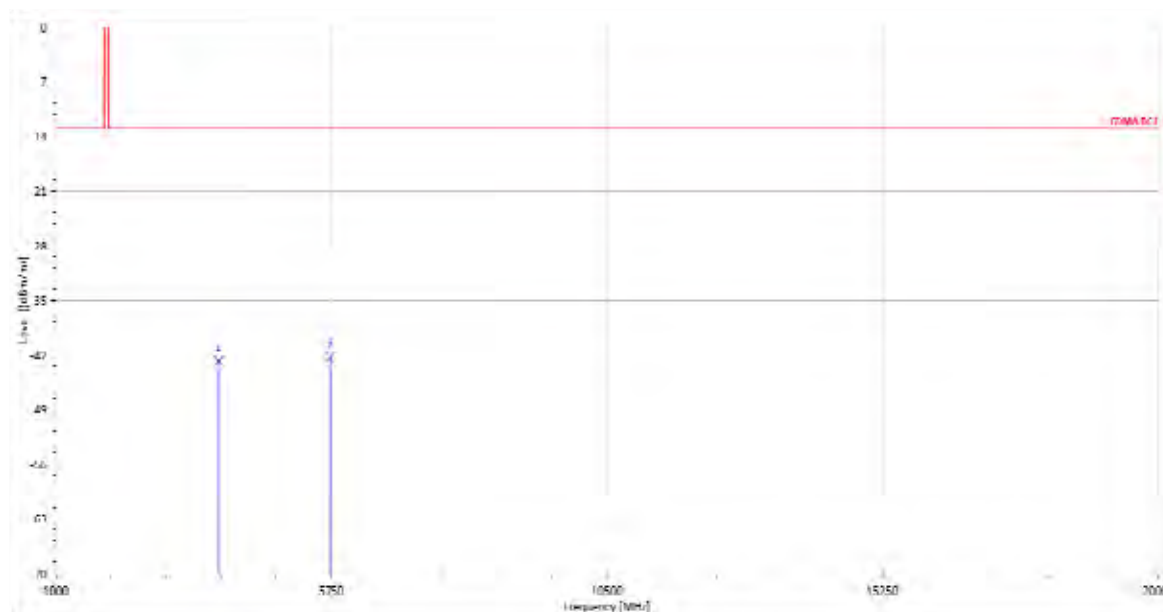
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ARFCN	:CH 1175	Test Date	:2015-07-07
Operation Band	:EVDO 1900	Temp./Humi.	:25.5 deg_C / 61 RH
Fundamental Frequency	:1908.75 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
3817.50	H	-42.80	-44.61	8.73	-6.92	-13.00	-29.80
5726.25	H	-42.30	-44.51	10.39	-8.19	-13.00	-29.30

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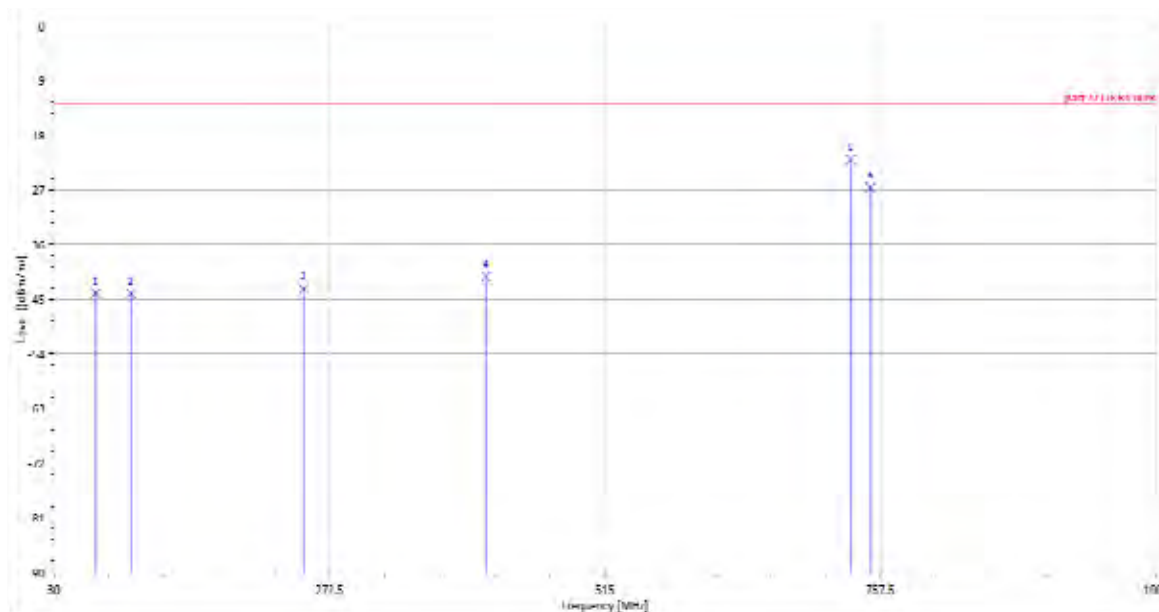
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Radiated Spurious Emission Measurement Result: 10MHz BW LTE-Band 4 (The Worst Case)

(Below 1GHz)

ARFCN	:16QAM BW 10 RB 1 49	Test Date	:2015-07-07
Operation Band	:LTE B4	Temp./Humi.	:25.2 deg_C / 71 RH
Fundamental Frequency	:1715 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
67.25	S	-44.06	-42.91	-0.13	-1.02	-13.00	-31.06
98.01	S	-44.09	-41.92	-0.98	-1.19	-13.00	-31.09
250.23	S	-43.35	-46.40	4.95	-1.90	-13.00	-30.35
410.55	S	-41.28	-44.23	5.44	-2.49	-13.00	-28.28
731.19	S	-22.04	-26.16	7.27	-3.15	-13.00	-9.04
749.00	S	-26.63	-30.60	7.31	-3.34	-13.00	-13.63

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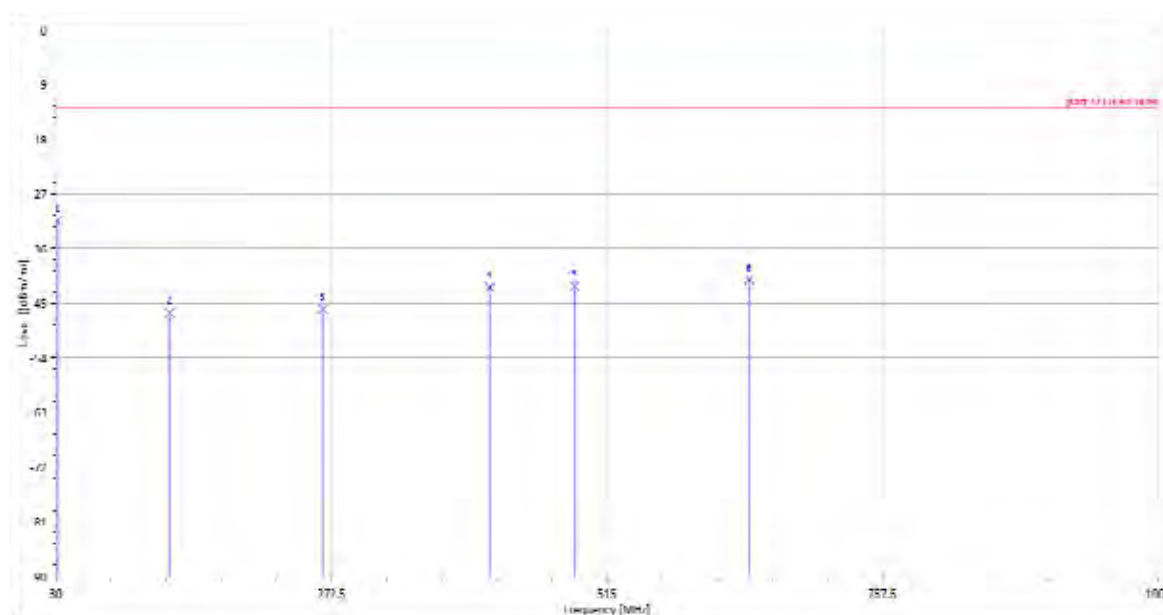
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ARFCN	:16QAM BW 10 RB 1 49	Test Date	:2015-07-07
Operation Band	:LTE B4	Temp./Humi.	:25.2 deg_C / 71 RH
Fundamental Frequency	:1715 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
31.62	S	-31.47	-11.84	-18.94	-0.69	-13.00	-18.47
130.40	S	-46.61	-45.04	-0.26	-1.31	-13.00	-33.61
264.81	S	-45.97	-48.71	4.71	-1.96	-13.00	-32.97
412.17	S	-42.36	-45.22	5.45	-2.59	-13.00	-29.36
486.66	S	-42.22	-45.54	6.08	-2.76	-13.00	-29.22
640.50	S	-41.16	-44.71	6.71	-3.17	-13.00	-28.16

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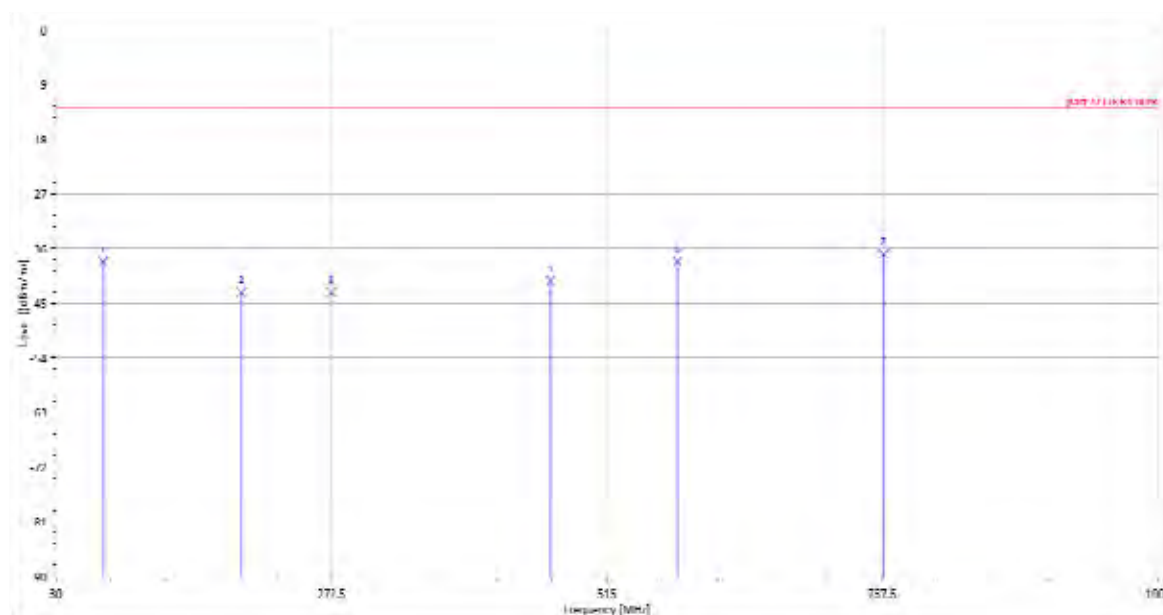
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ARFCN	:16QAM BW 10 RB 1 49	Test Date	:2015-07-07
Operation Band	:LTE B4	Temp./Humi.	:25.2 deg_C / 71 RH
Fundamental Frequency	:1732 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
72.10	S	-38.23	-37.47	0.26	-1.03	-13.00	-25.23
193.56	S	-43.22	-47.74	6.16	-1.64	-13.00	-30.22
272.90	S	-43.26	-46.58	5.30	-1.98	-13.00	-30.26
272.90	S	-43.26	-46.58	5.30	-1.98	-13.00	-30.26
465.61	S	-41.38	-44.76	5.90	-2.52	-13.00	-28.38
577.35	S	-38.19	-41.78	6.31	-2.72	-13.00	-25.19
758.71	S	-36.95	-41.07	7.32	-3.20	-13.00	-23.95

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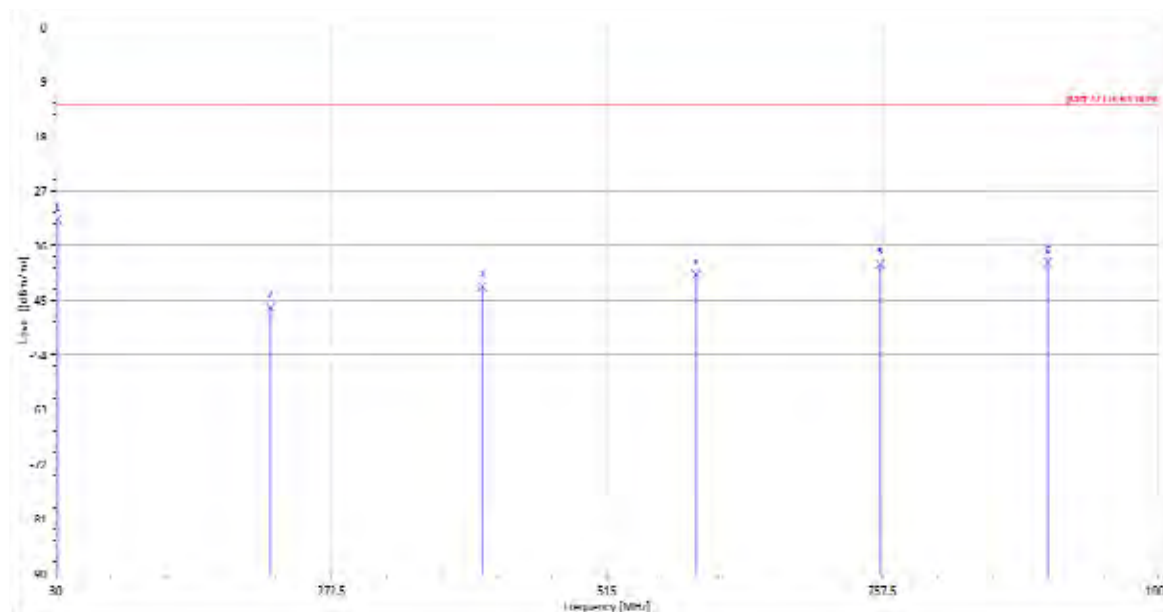
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ARFCN	:16QAM BW 10 RB 1 49	Test Date	:2015-07-07
Operation Band	:LTE B4	Temp./Humi.	:25.2 deg_C / 71 RH
Fundamental Frequency	:1732 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
31.62	S	-31.76	-12.13	-18.94	-0.69	-13.00	-18.76
219.47	S	-46.20	-50.57	6.16	-1.79	-13.00	-33.20
405.69	S	-42.71	-45.71	5.40	-2.40	-13.00	-29.71
593.54	S	-40.84	-44.17	6.42	-3.10	-13.00	-27.84
755.48	S	-39.03	-42.92	7.32	-3.43	-13.00	-26.03
902.84	S	-38.78	-42.59	7.40	-3.59	-13.00	-25.78

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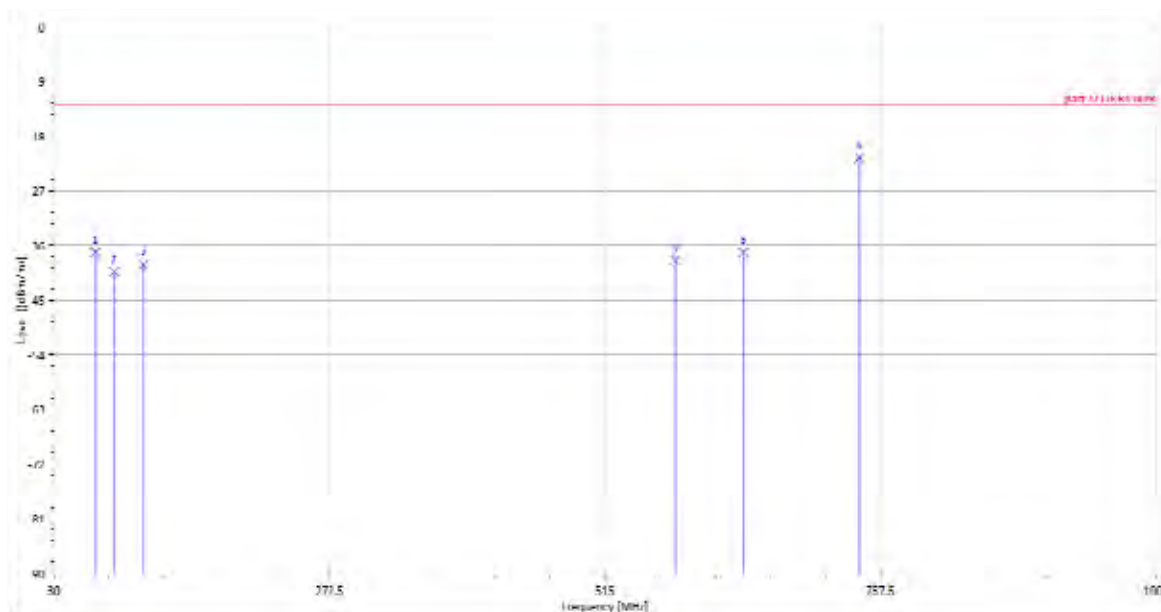
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ARFCN	:16QAM BW 10 RB 1 49	Test Date	:2015-07-07
Operation Band	:LTE B4	Temp./Humi.	:25.2 deg_C / 71 RH
Fundamental Frequency	:1750 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
67.25	S	-37.08	-35.93	-0.13	-1.02	-13.00	-24.08
83.44	S	-40.33	-39.49	0.27	-1.11	-13.00	-27.33
109.35	S	-39.18	-36.48	-1.44	-1.27	-13.00	-26.18
577.35	S	-38.44	-42.03	6.31	-2.72	-13.00	-25.44
637.26	S	-37.13	-40.80	6.69	-3.02	-13.00	-24.13
739.28	S	-21.56	-25.52	7.29	-3.32	-13.00	-8.56

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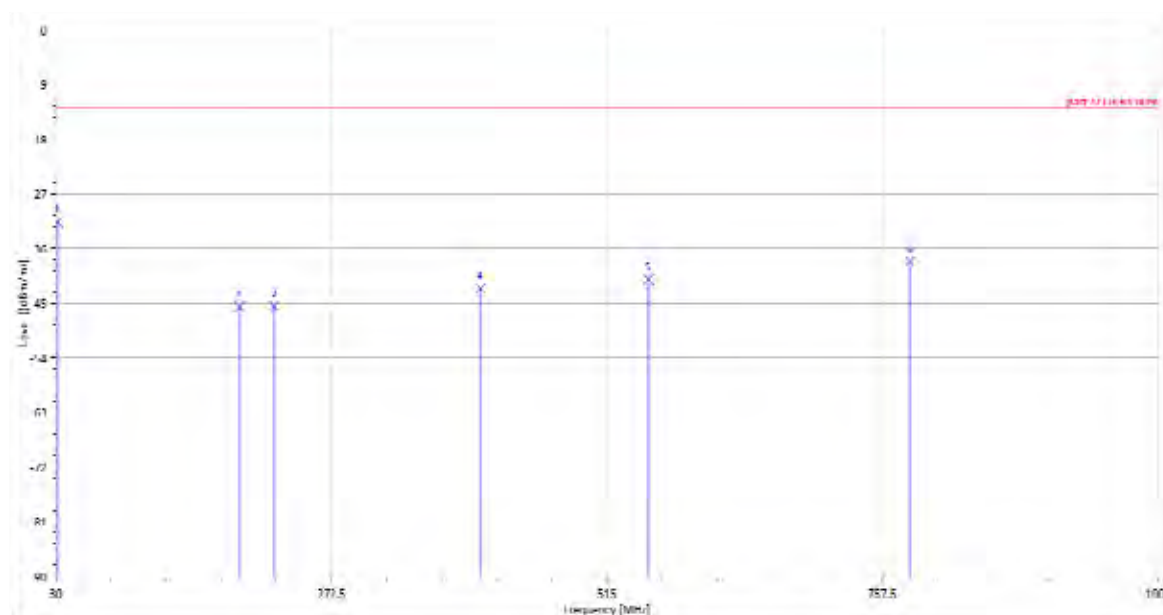
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ARFCN	:16QAM BW 10 RB 1 49	Test Date	:2015-07-07
Operation Band	:LTE B4	Temp./Humi.	:25.2 deg_C / 71 RH
Fundamental Frequency	:1750 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
31.62	S	-31.64	-12.01	-18.94	-0.69	-13.00	-18.64
191.94	S	-45.59	-50.18	6.22	-1.63	-13.00	-32.59
222.70	S	-45.50	-49.76	6.05	-1.79	-13.00	-32.50
404.07	S	-42.58	-45.48	5.38	-2.49	-13.00	-29.58
551.44	S	-41.11	-44.56	6.13	-2.68	-13.00	-28.11
781.39	S	-38.17	-42.19	7.35	-3.33	-13.00	-25.17

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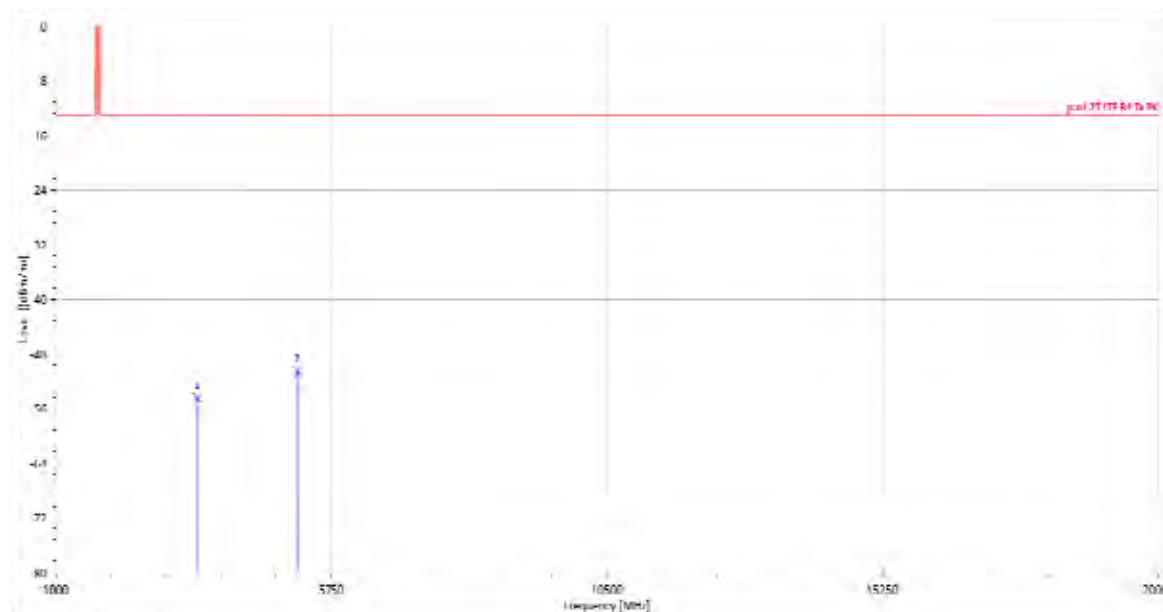
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Radiated Spurious Emission Measurement Result: 10MHz BW LTE-Band 4 (The Worst Case)

(Above 1GHz)

ARFCN	:16QAM BW 10 RB 1 49	Test Date	:2015-07-07
Operation Band	:LTE B4	Temp./Humi.	:25.2 deg_C / 71 RH
Fundamental Frequency	:1715 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
3430.00	H	-54.46	-56.33	8.42	-6.54	-13.00	-41.46
5145.00	H	-50.61	-53.43	10.10	-7.28	-13.00	-37.61

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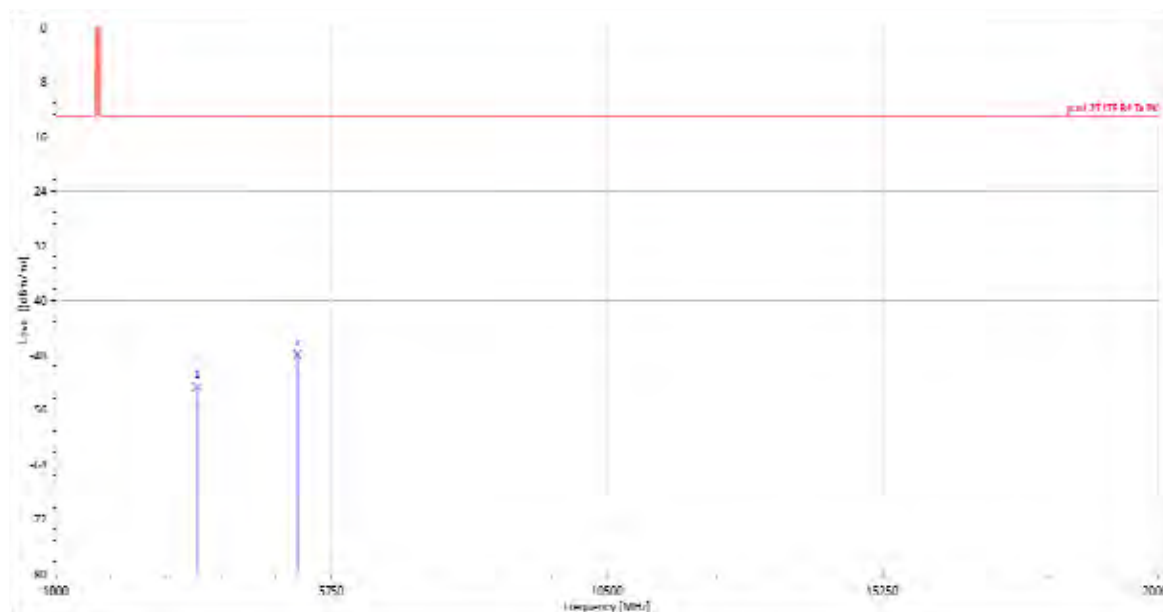
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ARFCN	:16QAM BW 10 RB 1 49	Test Date	:2015-07-07
Operation Band	:LTE B4	Temp./Humi.	:25.2 deg_C / 71 RH
Fundamental Frequency	:1715 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
3430.00	H	-52.72	-54.59	8.42	-6.54	-13.00	-39.72
5145.00	H	-47.99	-50.81	10.10	-7.28	-13.00	-34.99

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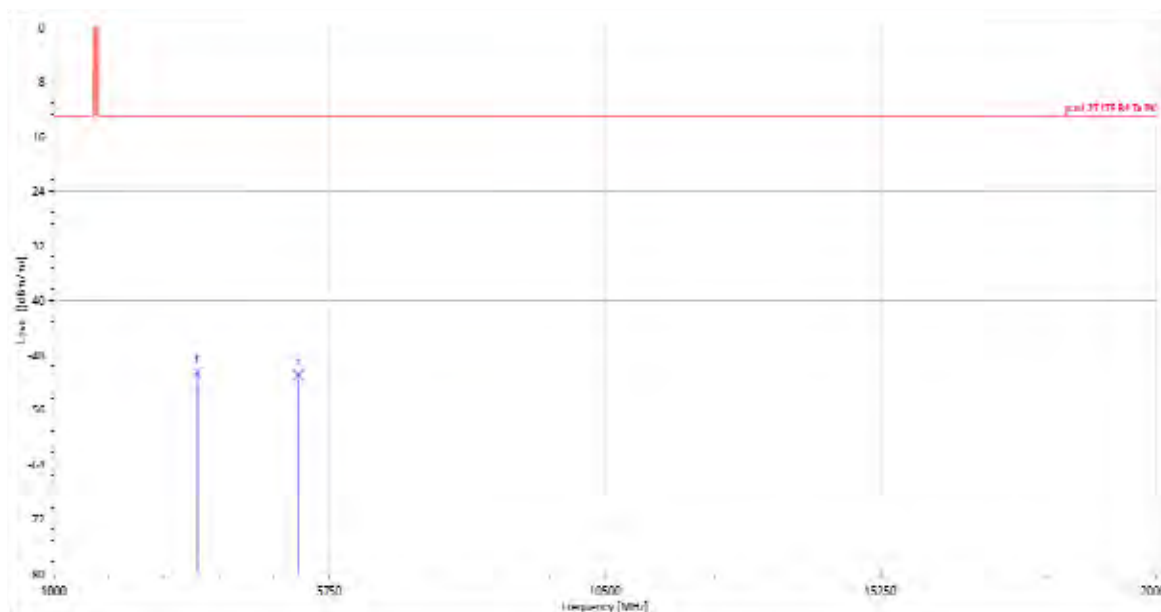
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ARFCN	:16QAM BW 10 RB 1 49	Test Date	:2015-07-07
Operation Band	:LTE B4	Temp./Humi.	:25.2 deg_C / 71 RH
Fundamental Frequency	:1732 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
3465.00	H	-50.58	-52.44	8.53	-6.67	-13.00	-37.58
5197.50	H	-50.96	-53.78	10.13	-7.32	-13.00	-37.96

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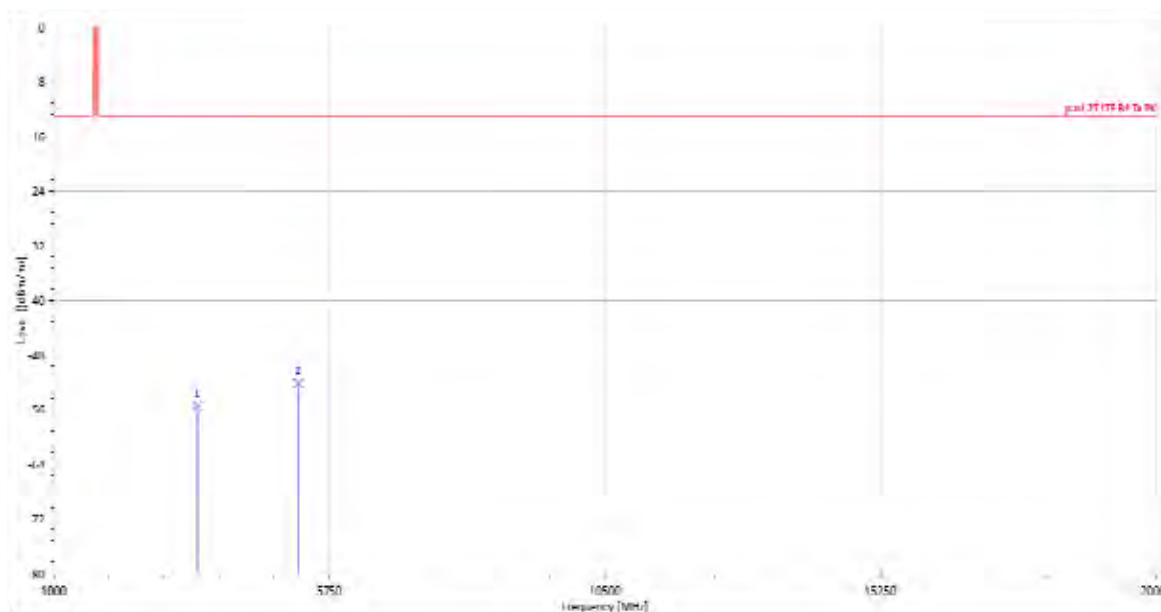
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ARFCN	:16QAM BW 10 RB 1 49	Test Date	:2015-07-07
Operation Band	:LTE B4	Temp./Humi.	:25.2 deg_C / 71 RH
Fundamental Frequency	:1732 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
3465.00	H	-55.53	-57.39	8.53	-6.67	-13.00	-42.53
5197.50	H	-52.16	-54.97	10.13	-7.32	-13.00	-39.16

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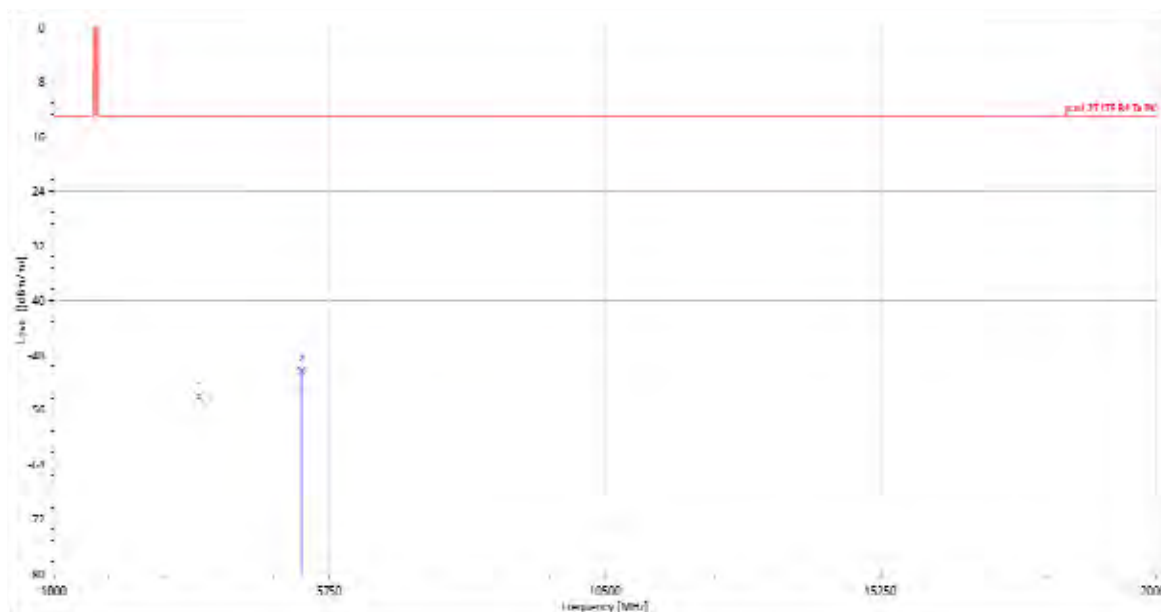
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ARFCN	:16QAM BW 10 RB 1 49	Test Date	:2015-07-07
Operation Band	:LTE B4	Temp./Humi.	:25.2 deg_C / 71 RH
Fundamental Frequency	:1750 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
3500.00	H	-54.18	-56.04	8.61	-6.75	-13.00	-41.18
5250.00	H	-50.38	-53.27	10.17	-7.27	-13.00	-37.38

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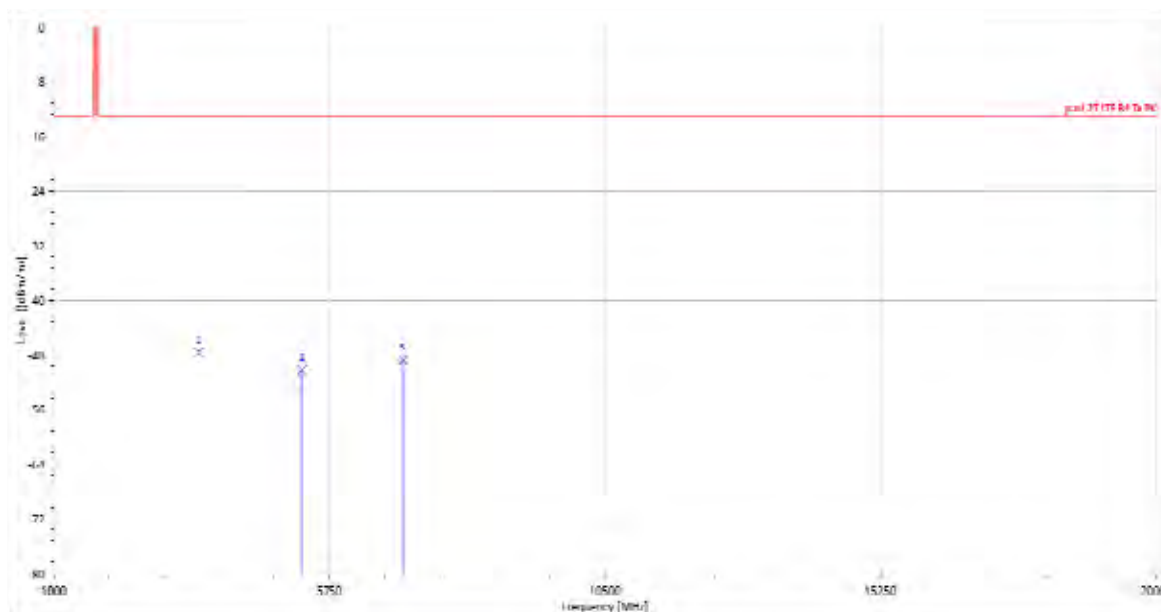
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ARFCN	:16QAM BW 10 RB 1 49	Test Date	:2015-07-07
Operation Band	:LTE B4	Temp./Humi.	:25.2 deg_C / 71 RH
Fundamental Frequency	:1750 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
3500.00	H	-47.66	-49.52	8.61	-6.75	-13.00	-34.66
5250.00	H	-50.24	-53.13	10.17	-7.27	-13.00	-37.24
7000.00	H	-48.76	-50.48	11.22	-9.51	-13.00	-35.76

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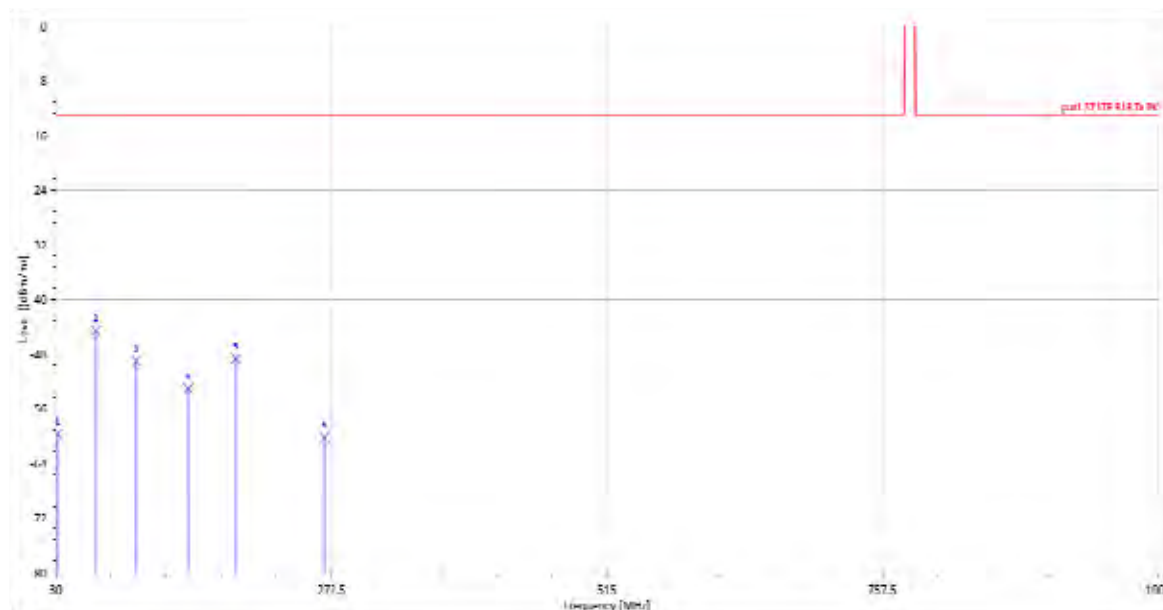
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Radiated Spurious Emission Measurement Result: 10MHz BW LTE-Band 13 (The Worst Case)

(Below 1GHz)

ARFCN	:16QAM BW 10 RB1 49	Test Date	:2015-07-07
Operation Band	:LTE B13	Temp./Humi.	:25.2 deg_C / 71 RH
Fundamental Frequency	:782 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
31.62	S	-59.76	-37.98	-21.09	-0.69	-13.00	-46.76
65.63	S	-44.60	-41.13	-2.48	-0.99	-13.00	-31.60
101.25	S	-49.06	-44.49	-3.37	-1.20	-13.00	-36.06
146.59	S	-53.13	-51.49	-0.23	-1.40	-13.00	-40.13
188.70	S	-48.67	-51.13	4.08	-1.62	-13.00	-35.67
266.43	S	-60.23	-60.97	2.72	-1.98	-13.00	-47.23

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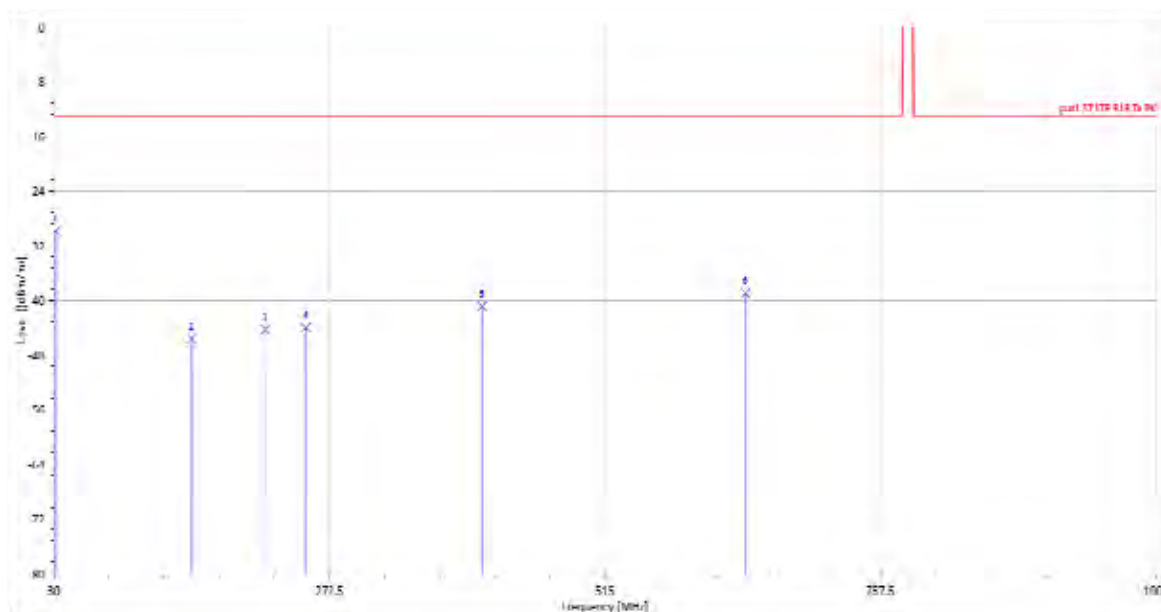
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ARFCN	:16QAM BW 10 RB1 49	Test Date	:2015-07-07
Operation Band	:LTE B13	Temp./Humi.	:25.2deg_C / 71 RH
Fundamental Frequency	:782 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
31.62	S	-29.90	-8.11	-21.09	-0.69	-13.00	-16.90
151.45	S	-45.64	-44.57	0.43	-1.50	-13.00	-32.64
216.23	S	-44.32	-46.54	4.01	-1.79	-13.00	-31.32
251.85	S	-44.05	-44.87	2.68	-1.86	-13.00	-31.05
407.31	S	-40.90	-41.79	3.26	-2.37	-13.00	-27.90
638.88	S	-39.00	-40.51	4.55	-3.05	-13.00	-26.00

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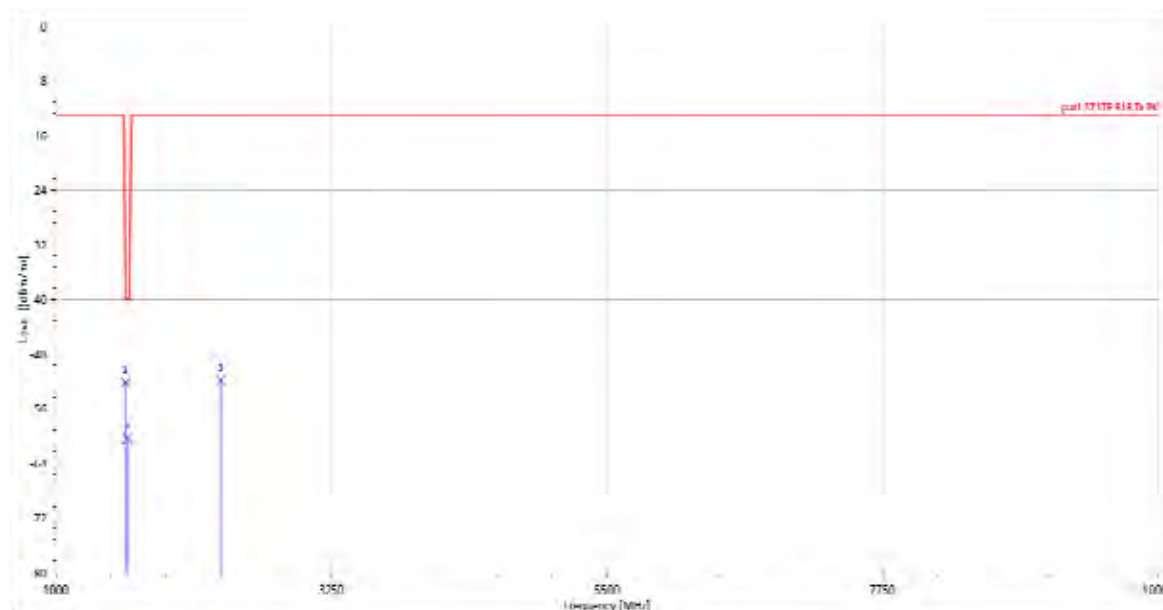
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Radiated Spurious Emission Measurement Result: 10MHz BW LTE-Band 13 (The Worst Case)

(Above 1GHz)

ARFCN	:16QAM BW 10 RB1 49	Test Date	:2015-07-07
Operation Band	:LTE B13	Temp./Humi.	:25.2 deg_C / 71 RH
Fundamental Frequency	:782 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
1570.95	H	-52.21	-51.16	3.88	-4.94	-13.00	-39.21
1589.09	S	-60.47	-59.35	3.84	-4.96	-40.00	-20.47
2352.25	H	-51.93	-49.66	3.41	-5.69	-13.00	-38.93

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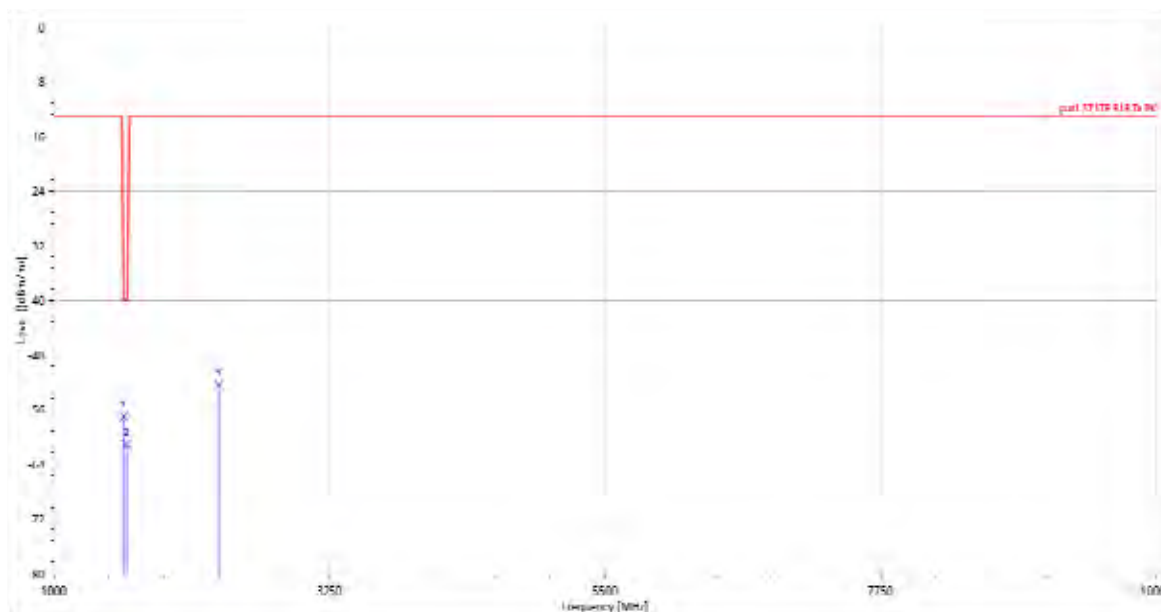
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ARFCN	:16QAM BW 10 RB1 49	Test Date	:2015-07-07
Operation Band	:LTE B13	Temp./Humi.	:25.2deg_C / 71 RH
Fundamental Frequency	:782 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
1570.95	H	-57.07	-56.01	3.88	-4.94	-13.00	-44.07
1595.64	S	-61.15	-60.01	3.82	-4.96	-40.00	-21.15
2352.25	H	-52.35	-50.07	3.41	-5.69	-13.00	-39.35

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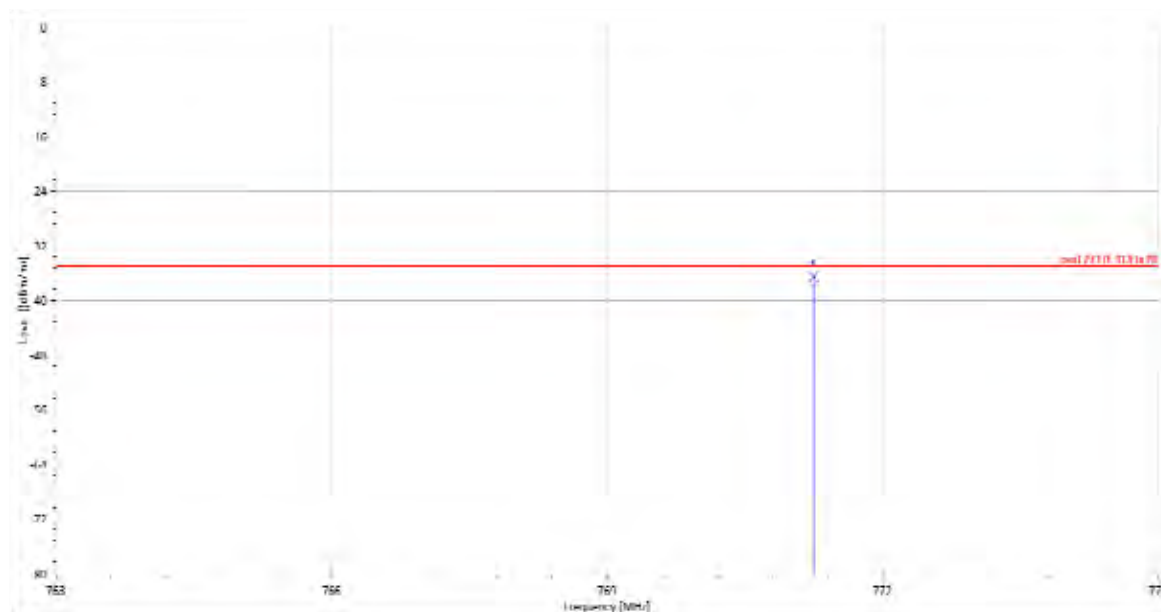
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Radiated Spurious Emission Measurement Result: 10MHz BW LTE-Band 13 (763MHz-775MHz)

ARFCN	:16QAM BW 10 RB1 49	Test Date	:2015-07-07
Operation Band	:LTE B13	Temp./Humi.	:25.2 deg_C / 71 RH
Fundamental Frequency	:782 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
771.25	S	-36.57	-38.46	5.19	-3.30	-35.00	-1.57

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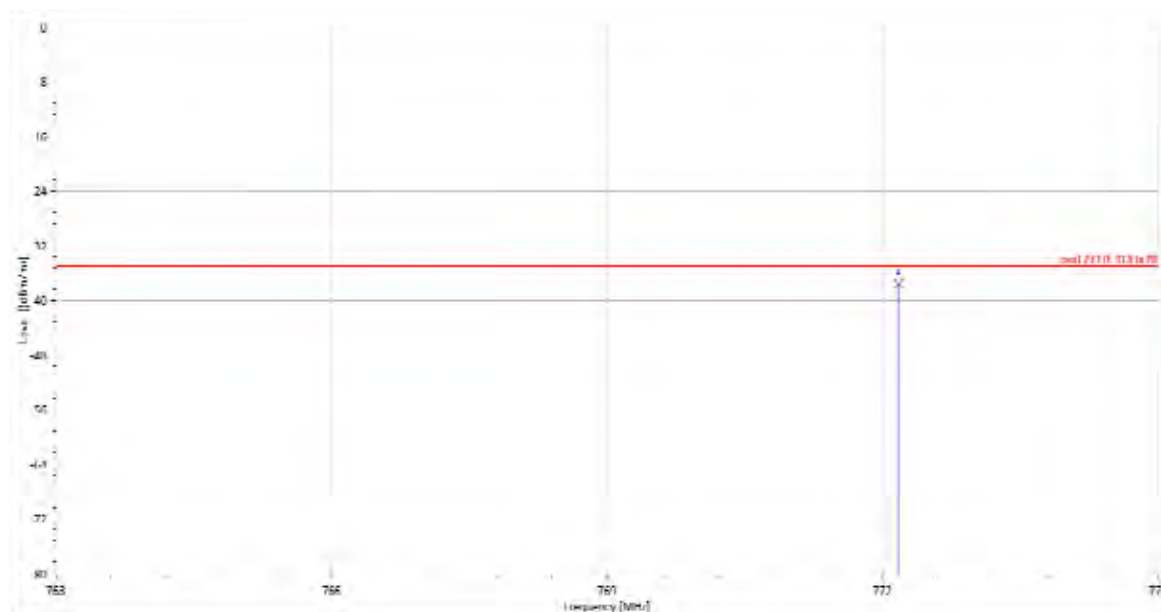
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ARFCN	:16QAM BW 10 RB1 49	Test Date	:2015-07-07
Operation Band	:LTE B13	Temp./Humi.	:25.2 deg_C / 71 RH
Fundamental Frequency	:782 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
772.18	S	-37.57	-39.45	5.19	-3.31	-35.00	-2.57

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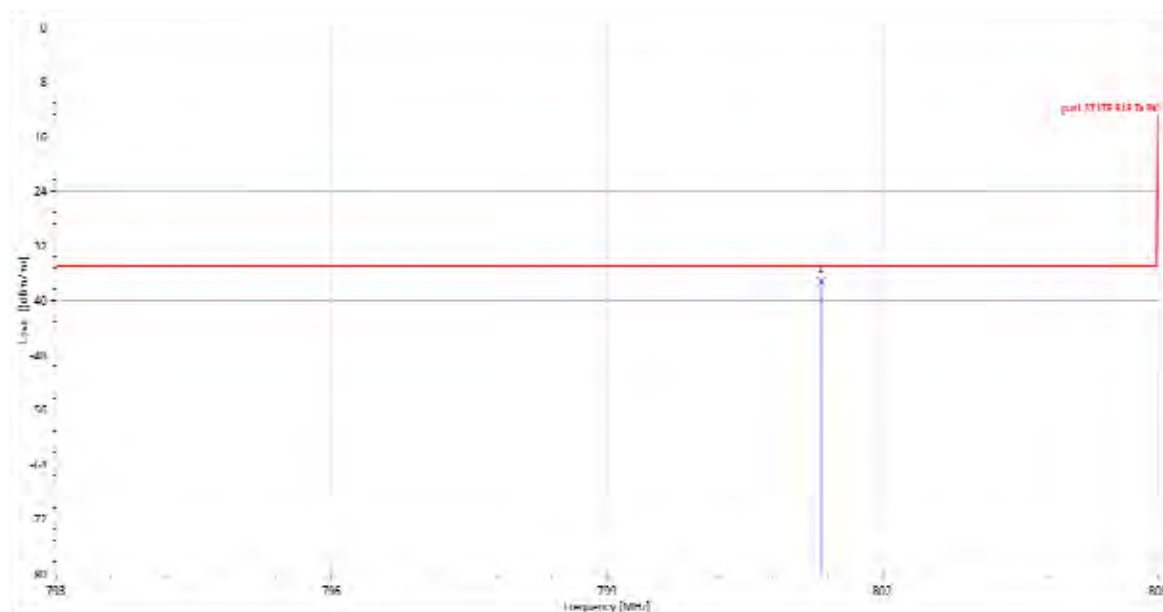
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Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 13(793MHz-805MHz)

ARFCN	:16QAM BW 10 RB1 49	Test Date	:2015-07-07
Operation Band	:LTE B13	Temp./Humi.	:25.2 deg_C / 71 RH
Fundamental Frequency	:782 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
801.33	S	-37.30	-39.07	5.22	-3.44	-35.00	-2.30

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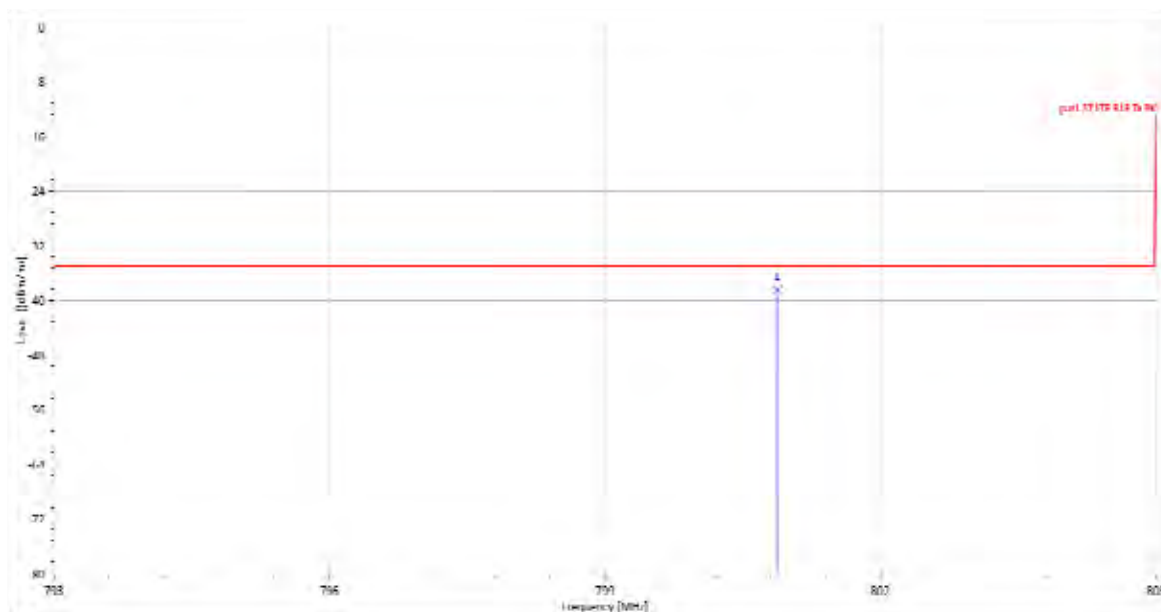
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ARFCN	:16QAM BW 10 RB1 49	Test Date	:2015-07-07
Operation Band	:LTE B13	Temp./Humi.	:25.2 deg_C / 71 RH
Fundamental Frequency	:782 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
800.87	S	-38.51	-40.31	5.22	-3.42	-35.00	-3.51

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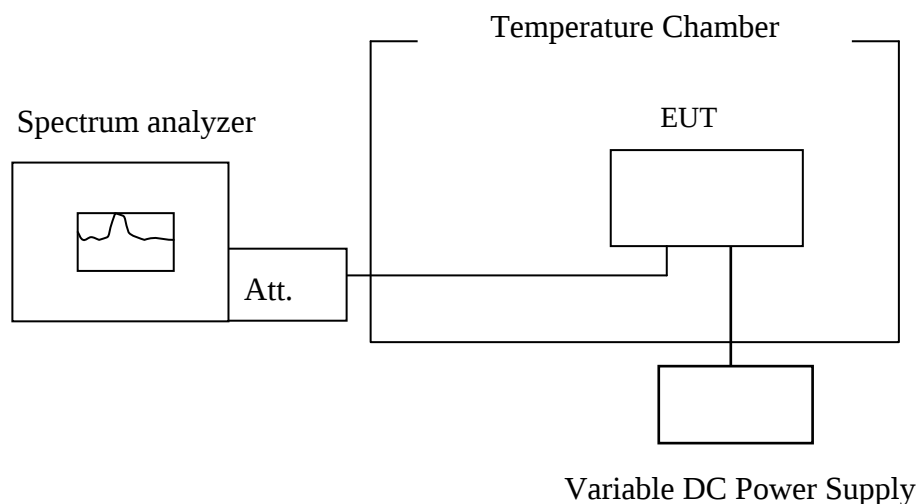
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11. FREQUENCY STABILITY MEASUREMENT

11.1. Standard Applicable:

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

11.2. Test Set-up:



Note: Measurement setup for testing on Antenna connector

11.3. Measurement Procedure:

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Set chamber temperature to 25 . Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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11.4. Measurement Equipment Used:

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	10/15/2014	10/14/2015
Communication Tester	Anritsu	MT8820C	6201107337	05/27/2015	05/26/2016
Coaxial Cable 30cm	WOKEN	00100A1F1A1 95C	RF01	12/19/2014	12/18/2015
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/18/2015	06/17/2016
DC Block	PASTERNACK	PE8210	RF29	12/19/2014	12/18/2015
Splitter	RF-LAMBAD	RFLT2W1G18 G	RF35	12/19/2014	12/18/2015
Attenuator	WOKEN	218FS-10	RF23	12/19/2014	12/18/2015
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2015	05/03/2016

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11.5. Measurement Result:

FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: CDMA BC0 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
6.60	25.00	836.520085	-9.40	2091.00
7.40	25.00	836.520076	0.00	2091.00
8.51	25.00	836.520065	11.00	2091.00
6.6 (End point)	25.00	836.520085	-9.40	2091.00

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: CDMA BC0 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
7.4	-30	836.519912	20.00	2091
7.4	-20	836.519942	-10.00	2091
7.4	-10	836.519937	-5.20	2091
7.4	0	836.519950	-18.00	2091
7.4	10	836.519940	-8.00	2091
7.4	20	836.519932	0.00	2091
7.4	30	836.519941	-9.00	2091
7.4	40	836.519953	-21.00	2091
7.4	50	836.519944	-12.00	2091

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: CDMA BC1 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
6.60	25	1879.999980	-6.00	4700
7.40	25	1879.999974	0.00	4700
8.51	25	1879.999966	8.00	4700
6.6 (End point)	25	1879.999980	-6.00	4700

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: CDMA BC1 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
7.4	-30	1879.999946	18.00	4700
7.4	-20	1879.999936	28.00	4700
7.4	-10	1880.000001	-37.00	4700
7.4	0	1880.000010	-46.00	4700
7.4	10	1879.999984	-20.00	4700
7.4	20	1879.999964	0.00	4700
7.4	30	1880.000020	-56.00	4700
7.4	40	1879.999930	34.00	4700
7.4	50	1879.999983	-19.00	4700

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz 20M QPSK CH 20175
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
6.60	25	1732.500003	5.00	4331
7.4	25	1732.499998	0.00	4331
8.51	25	1732.500005	7.10	4331
6.6 (End Point)	25	1732.500003	5.00	4331

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz 20M QPSK CH 20175
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
7.4	-30	1732.499998	1.50	4331
7.4	-20	1732.499995	-1.00	4331
7.4	-10	1732.499998	1.90	4331
7.4	0	1732.499994	-2.40	4331
7.4	10	1732.500007	10.70	4331
7.4	20	1732.499996	0.00	4331
7.4	30	1732.499999	2.50	4331
7.4	40	1732.500003	6.60	4331
7.4	50	1732.499998	1.60	4331

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B13 Mid Channel	782.0	MHz 10M QPSK CH 23230
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
6.60	25	781.999999	1.70	1955
7.4	25	781.999997	0.00	1955
8.51	25	781.999998	1.10	1955
6.6 (End Point)	25	781.999999	1.70	1955

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B13 Mid Channel	782.0	MHz 10M QPSK CH 23230
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
7.4	-30	782.000002	6.90	1955
7.4	-20	781.999995	-0.40	1955
7.4	-10	781.999993	-2.40	1955
7.4	0	781.999997	1.70	1955
7.4	10	781.999997	1.80	1955
7.4	20	781.999995	0.00	1955
7.4	30	781.999998	2.40	1955
7.4	40	782.000004	8.10	1955
7.4	50	781.999998	2.80	1955

Note: The battery is rated 7.4Vdc.

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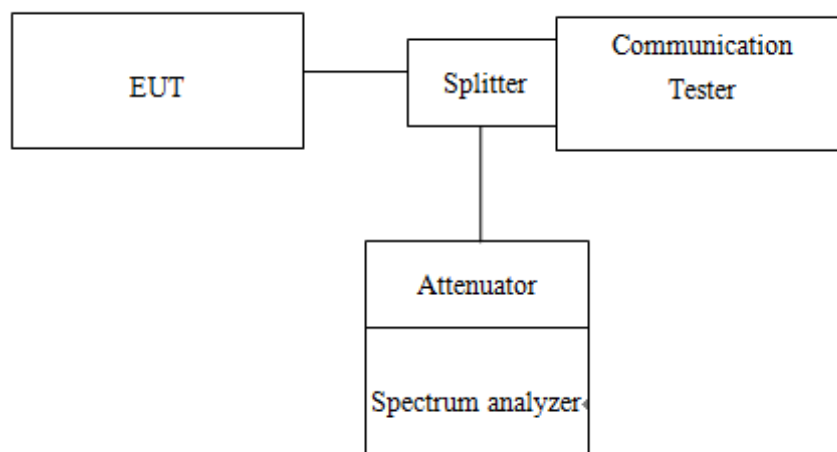
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12. PEAK TO AVERAGE RATIO

12.1. Standard Applicable

The peak-to-average ration (PAR) of the transmission may not exceed 13dB.

12.2. Test SET-UP



12.3. Measurement Procedure

1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
2. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth; & internal = 1ms
3. Set the number of counts to a value that stabilizes the measured CCDF curve.

12.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	10/15/2014	10/14/2015
Communication Tester	Anritsu	MT8820C	6201107337	05/27/2015	05/26/2016
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/19/2014	12/18/2015
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/18/2015	06/17/2016
DC Block	PASTERNAK	PE8210	RF29	12/19/2014	12/18/2015
Splitter	RF-LAMBDA	RFLT2W1G18G	RF35	12/19/2014	12/18/2015
Attenuator	WOKEN	218FS-10	RF23	12/19/2014	12/18/2015
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2015	05/03/2016

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12.5. Measurement Result

Tabular Results:

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		CDMA BC0	EVDO BC0
1850.20	9262	4.57	4.26
1880.00	9400	4.45	4.31
1909.80	9538	3.99	3.96

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		CDMA BC1	EVDO BC1
826.40	4132	4.23	4.24
836.60	4183	4.00	4.12
846.60	4233	3.92	4.01

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LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1710.7	19957	6.17	13	1711.5	19965	6.27	13
1732.5	20175	6.12	13	1732.5	20175	6.50	13
1754.3	20393	6.26	13	1753.5	20385	6.41	13

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1712.5	19957	5.59	13	1715.0	20000	6.27	13
1732.5	20175	5.57	13	1732.5	20175	6.31	13
1752.5	20375	6.16	13	1750.0	20350	6.52	13

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1717.5	20025	6.33	13	1720.0	20050	6.79	13
1732.5	20175	6.30	13	1732.5	20175	6.79	13
1747.5	20325	6.44	13	1745.0	20300	6.82	13

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LTE BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
779.5	23205	5.38	13	23230	782	5.91	13
782.0	23230	4.84	13				
782.0	23255	5.01	13				

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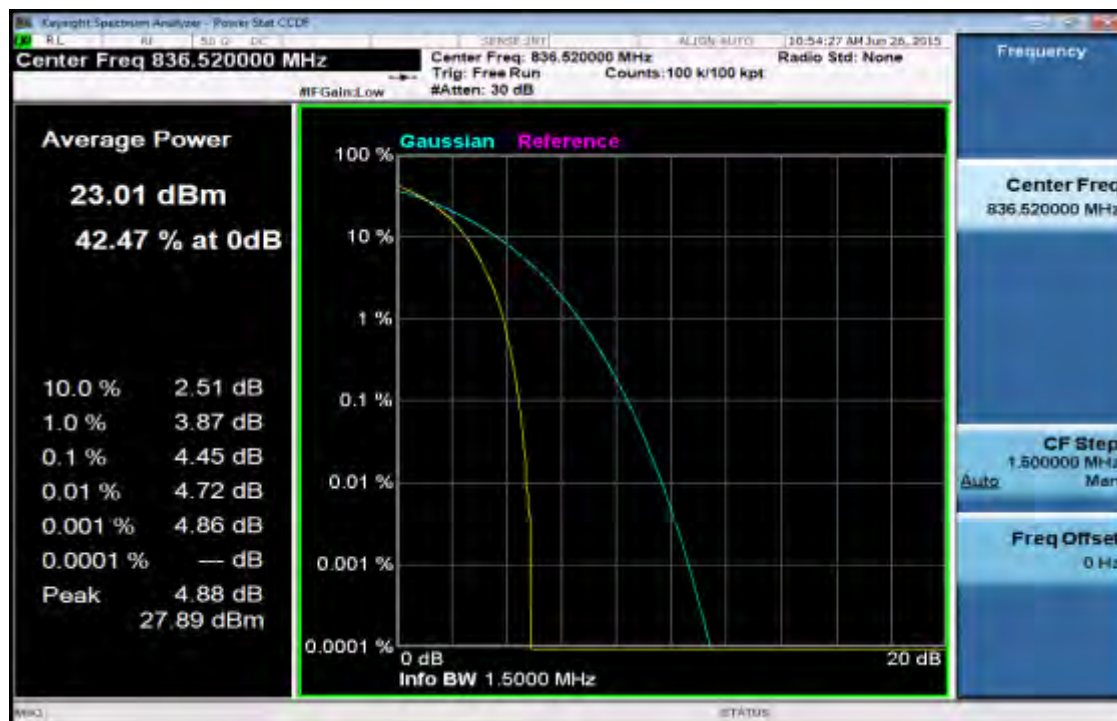
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Measurement Results:

CDMA BC0 Channel Low



CDMA BC0 Channel Mid



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CDMA BC0 Channel High



CDMA BC1 Channel Low



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CDMA BC1 Channel Mid



CDMA BC1 Channel High



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EVDO BC0 Channel Low



EVDO BC0 Channel Mid



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EVDO BC0 Channel High



EVDO PCS BC1 Channel Low



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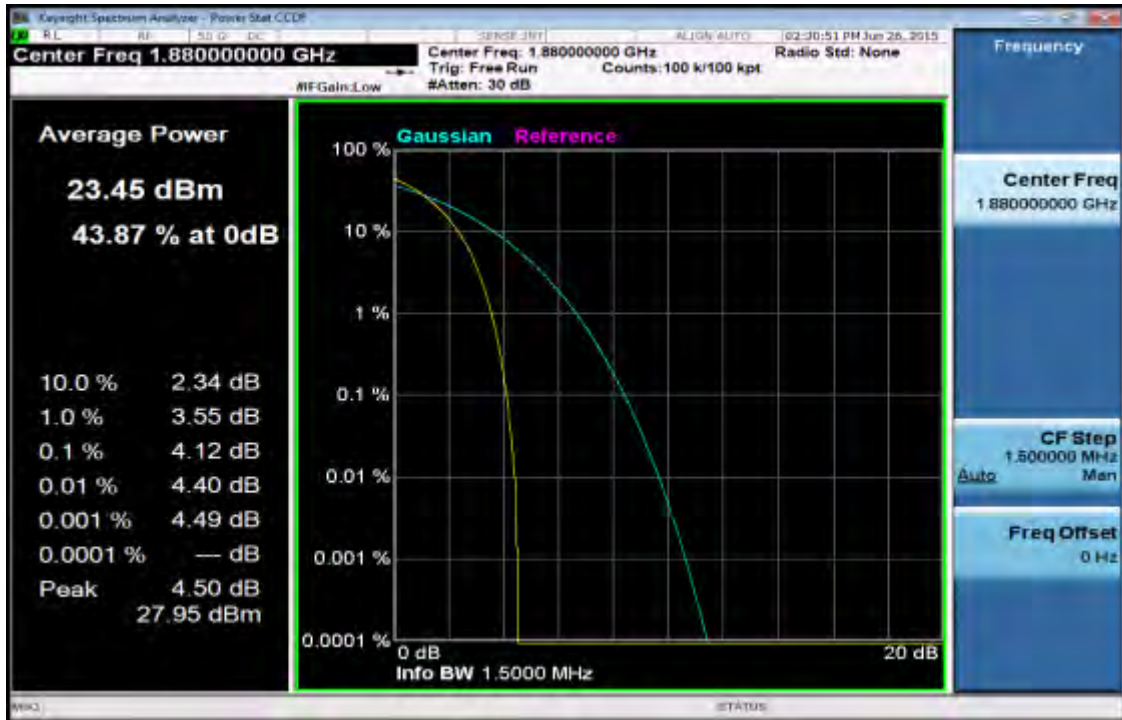
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EVDO BC1 Channel Mid



EVDO BC1 Channel High



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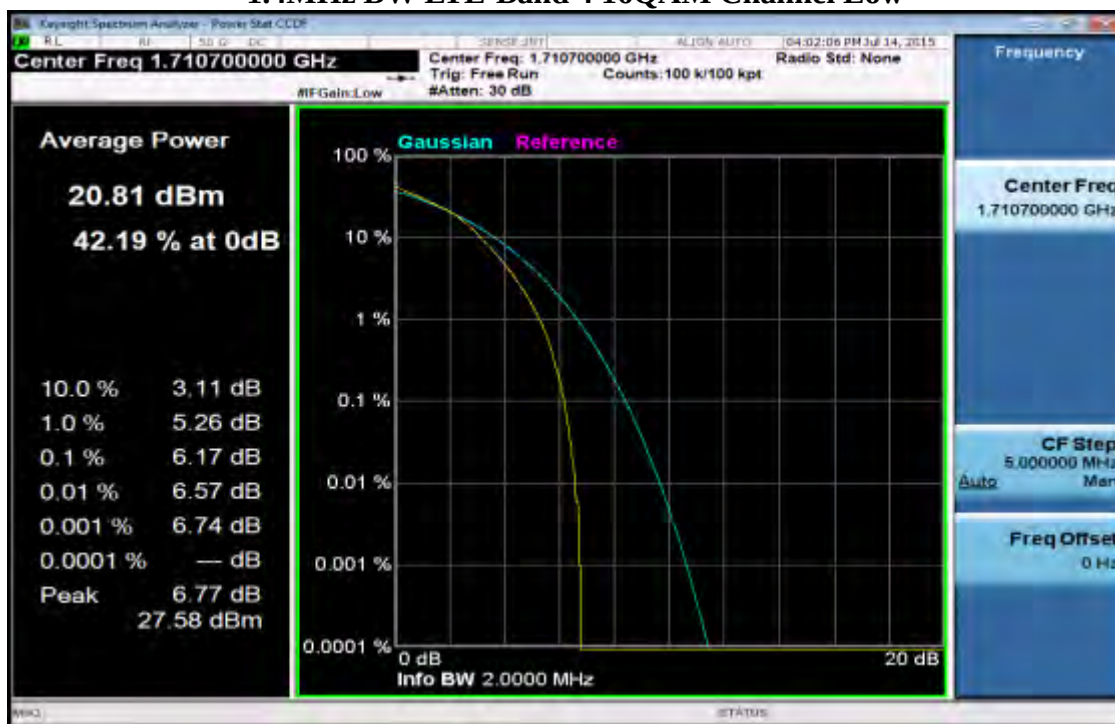
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1.4MHz BW LTE-Band 4 16QAM Channel Low



1.4MHz BW LTE-Band 4 16QAM Channel Mid



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1.4MHz BW LTE-Band 4 16QAM Channel High



3MHz BW LTE-Band 4 16QAM Channel Low



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3MHz BW LTE-Band 4 16QAM Channel Mid



3MHz BW LTE-Band 4 16QAM Channel High



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5MHz BW LTE-Band 4 16QAM Channel Low



5MHz BW LTE-Band 4 16QAM Channel Mid



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5MHz BW LTE-Band 4 16QAM Channel High



10MHz BW LTE-Band 4 16QAM Channel Low



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10MHz BW LTE-Band 4 16QAM Channel Mid



10MHz BW LTE-Band 4 16QAM Channel High



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15MHz BW LTE-Band 4 16QAM Channel Low



15MHz BW LTE-Band 4 16QAM Channel Mid



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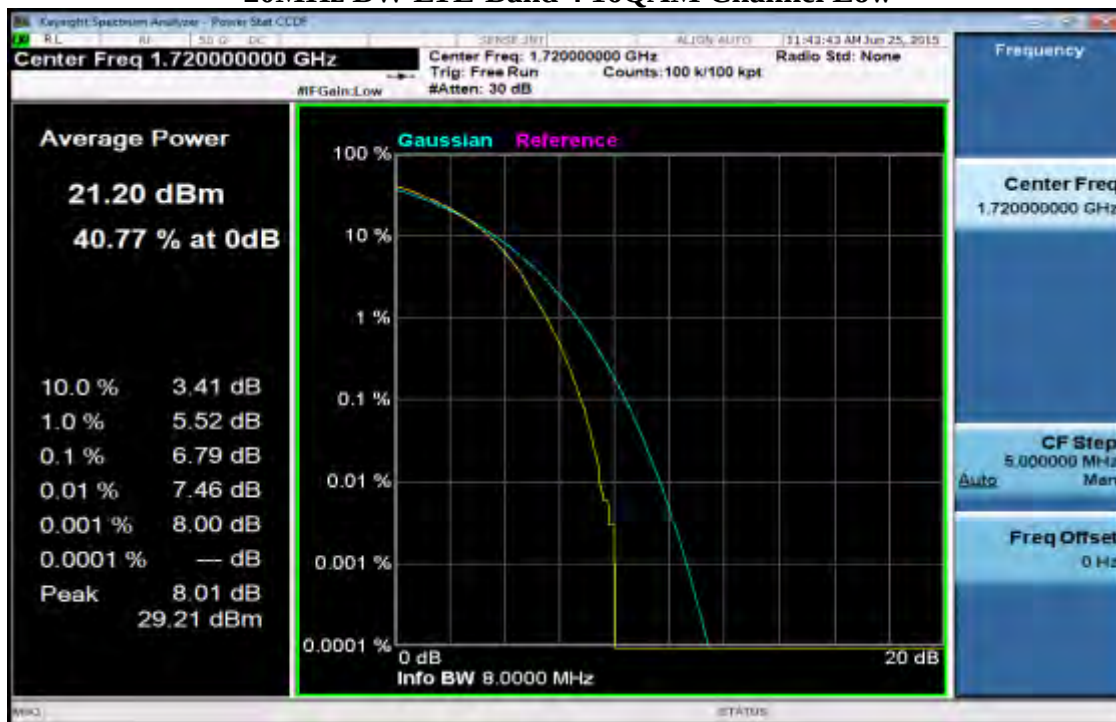
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15MHz BW LTE-Band 4 16QAM Channel High



20MHz BW LTE-Band 4 16QAM Channel Low



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20MHz BW LTE-Band 4 16QAM Channel Mid



20MHz BW LTE-Band 4 16QAM Channel High



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5MHz BW LTE-Band 13 16QAM Channel Low



5MHz BW LTE-Band 13 16QAM Channel Mid



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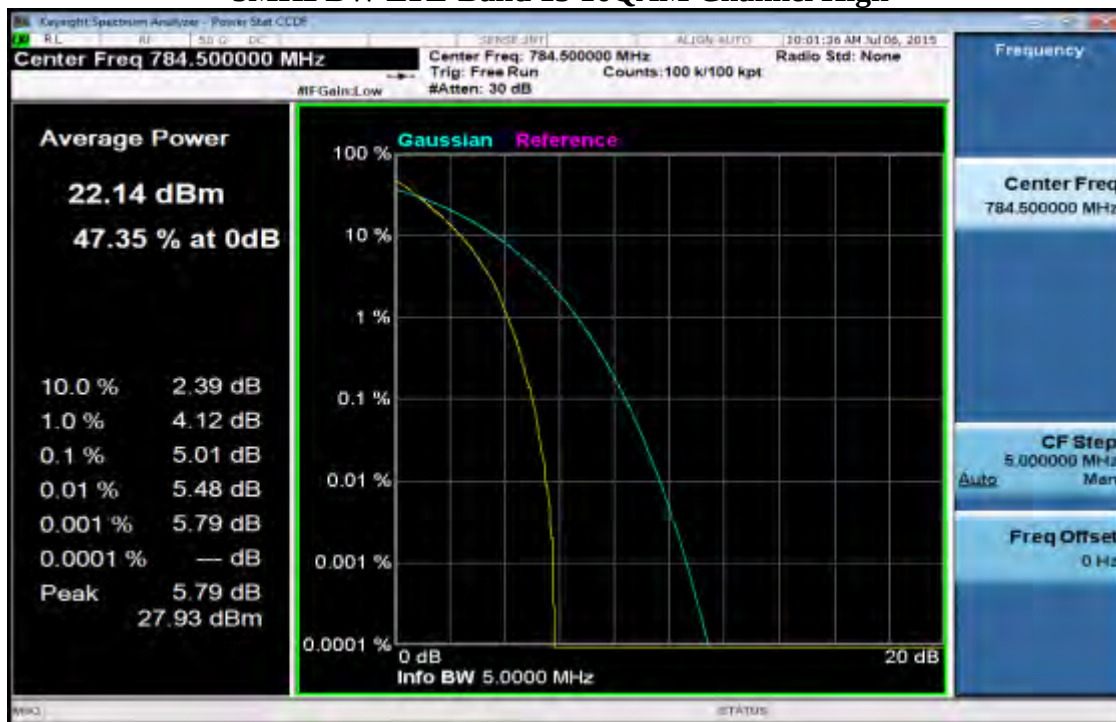
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5MHz BW LTE-Band 13 16QAM Channel High



10MHz BW LTE-Band 13 16QAM Channel Mid



~ End of Report ~

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