

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT
INTENTIONAL RADIATOR CERTIFICATION TO
FCC PART 22 SUBPART H, PART 24 SUBPART E & PART 27 SUBPART C
REQUIREMENT

OF

Product Name: Tablet PC
Brand Name: hp
Model No.: HSTNN-Q93C
FCC ID: B94HNQ93CSPNWR
Report No.: E2/2015/30024
Issue Date: Apr. 17, 2015
FCC Rule Part: 2, 22H & 24E & 27C & L
Prepared for: Hewlett-Packard Company
1501 Page Mill Road, M/S1419, Palo Alto, CA
94304, United States
Prepared by: SGS Taiwan Ltd.
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VERIFICATION OF COMPLIANCE

Applicant: Hewlett-Packard Company
 1501 Page Mill Road, M/S1419, Palo Alto, CA, 94304, United States

Product Name: Tablet PC

Brand Name: hp

Model No.: HSTNN-Q93C

FCC ID: B94HNQ93CSPNWR

File Number: E2/2015/30024

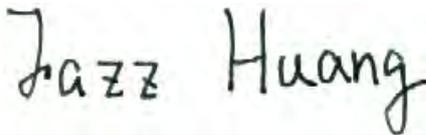
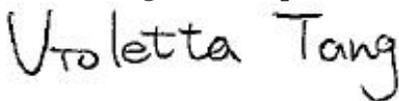
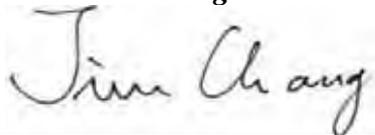
Date of test: Mar. 16, 2015 ~ Apr. 13, 2015

Date of EUT Received: Mar. 16, 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:	 <hr/> <i>Jazz Huang / Asst. Supervisor</i>	Date:	Apr. 17, 2015
Prepared By:	 <hr/> <i>Violetta Tang / Clerk</i>	Date:	Apr. 17, 2015
Approved By:	 <hr/> <i>Jim Chang / Asst. Manager</i>	Date:	Apr. 17, 2015

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Revision History

Report Number	Revision	Description	Issue Date
E2/2015/30024	Rev.00	Initial creation of document	Apr. 17, 2015

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Table of Contents

1. GENERAL PRODUCT INFORMATION	6
1.1. Product Description	6
1.2. Product Feature of Equipment Under Test	9
1.3. Test Methodology of Applied Standards	10
1.4. Test Facility	10
1.5. Special Accessories	10
1.6. Equipment Modifications	10
2. SYSTEM TEST CONFIGURATION	11
2.1. EUT Configuration	11
2.2. EUT Exercise	11
2.3. Test Procedure	11
2.4. Measurement Results Explanation Example	12
2.5. Final Amplifier Voltage and Current Information:	12
2.6. Configuration of Tested System	13
3. SUMMARY OF TEST RESULTS	14
4. DESCRIPTION OF TEST MODES	15
4.1. The Worst Test Modes and Channel Details	15
5. MEASUREMENT UNCERTAINTY	17
6. RF CONDUCTED OUTPUT POWER MEASUREMENT	18
6.1. Standard Applicable	18
6.2. Test Set-up	18
6.3. Measurement Procedure	18
6.4. Measurement Equipment Used	19
6.5. Measurement Result	20
7. EFFECTIVE RADIATED POWER AND EQUIVALENT ISOTROPIC RADIATED POWER MEASUREMENT	27
7.1. Standard Applicable	27
7.2. Test SET-UP	27
7.3. Measurement Procedure	29
7.4. Measurement Equipment Used	31
7.5. Measurement Result: (Peak) –using option of peak measurement	32

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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8. OCCUPIED BANDWIDTH MEASUREMENT37

8.1. Standard Applicable37

8.2. Test Set-up.....37

8.3. Measurement Procedure.....37

8.4. Measurement Equipment Used38

8.5. Measurement Result.....39

9. OUT OF BAND EMISSION AT ANTENNA TERMINALS63

9.1. Standard Applicable63

9.2. Test SET-UP63

9.3. Measurement Procedure.....64

9.4. Measurement Equipment Used64

9.5. Measurement Result:.....64

10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT.....93

10.1. Standard Applicable93

10.2. EUT Setup.....93

10.3. Measurement Procedure:.....95

10.4. Measurement Equipment Used:96

10.5. Measurement Result (Below 1GHz):97

10.6. Measurement Result (Above 1GHz):.....127

11. FREQUENCY STABILITY MEASUREMENT157

11.1. Standard Applicable:157

11.2. Test Set-up:.....157

11.3. Measurement Procedure:.....157

11.4. Measurement Equipment Used:158

11.5. Measurement Result:.....159

12. PEAK TO AVERAGE RATIO164

12.1. Standard Applicable164

12.2. Test SET-UP164

12.3. Measurement Procedure.....164

12.4. Measurement Equipment Used164

12.5. Measurement Result.....165

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

Product Name:	Tablet PC	
Brand Name:	hp	
Model No.:	HSTNN-Q93C	
Product SW/HW version:	Win 8.1 / 1.0	
Radio SW/HW version:	7.7.2.0 / 1.0	
Power Supply:	3.8Vdc form Rechargeable Li-ion Battery or 5.25V from AC/DC Adapter	
	Battery:	1. Model No.: HSTNH-C408M-SD, Supplier: Dynapack
		2. Model No.: HSTNH-C408M-SS, Supplier: SDI (SQ)
	Adapter:	1. Model No.: TPN-AA01, Supplier: AcBel
		2. Model No.: TPN-DA01, Supplier: Delta
3. Model No.: TPN-LA01, Supplier: Lite-On		
IMEI:	355870057536721	

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GPRS / WCDMA:

Cellular Phone Standards Frequency Range and Power	Operating Frequency		Rated Power
	GPRS 850	824.2 MHz– 848.8 MHz	33dBm
	EDGE 850	824.2 MHz– 848.8 MHz	27dBm
	GPRS 1900	1850.2MHz – 1909.8MHz	30dBm
	EDGE 1900	1850.2MHz – 1909.8MHz	26dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band II	1852.4MHz – 1907.6MHz	24dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band IV	1712.4MHz - 1752.6MHz	24dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band V	826.4MHz - 846.6MHz	24dBm
Type of Emission:	GPRS 850	243KGXW	
	EDGE 850	247KG7W	
	GPRS 1900	244KGXW	
	EDGE 1900	251KG7W	
	WCDMA Band II	4M06F9W	
	HSDPA Band II	4M05F9W	
	HSUPA Band II	4M04F9W	
	WCDMA Band IV	4M05F9W	
	HSDPA Band IV	4M04F9W	
	HSUPA Band IV	4M04F9W	
	WCDMA Band V	4M06F9W	
	HSDPA Band V	4M04F9W	
HSUPA Band V	4M05F9W		

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Max ERP/EIRP measurement result:

	dBm		W
GPRS 850 Band	28.25	ERP	0.668
EDGE 850 Band	25.48	ERP	0.353
GPRS 1900 Band	26.90	EIRP	0.490
EDGE 1900 Band	25.60	EIRP	0.363
WCDMA Band II	22.78	EIRP	0.190
HSDPA Band II	22.75	EIRP	0.188
HSUPA Band II	22.55	EIRP	0.180
WCDMA Band IV	21.06	EIRP	0.128
HSDPA Band IV	21.12	EIRP	0.129
HSUPA Band IV	20.79	EIRP	0.120
WCDMA Band V	23.25	ERP	0.211
HSDPA Band V	23.25	ERP	0.211
HSUPA Band V	23.42	ERP	0.220

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1.2. Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is Tablet PC supporting, GSM / WCDMA, Wi-Fi 802.11abgn & ac, Bluetooth with NFC and GPS features, and below is details of information.

Product Feature	
Product Name:	Tablet PC
Brand Name:	hp
Model No.:	HSTNN-Q93C
FCC ID	B94HNQ93CSPNWR
GSM Operating Band(s)	GSM 850/1900MHz
GPRS / EGPRS Multi Slot Class	GPRS Class 10 / Class 12
WCDMA Operating Band(s)	FDD Band II / IV / V
WCDMA Rel. Version	Rel.8
Wi-Fi Specification	802.11a/b/g/n/ac
Bluetooth Version	V4.0 dual mode + HS
NFC Specification	NFC

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

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1.3. Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22, 24, 27.

ANSI / TIA / EIA 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) = 0.7(dB)

High Band: Offset = RF cable loss (dB) + attenuation factor (dB) = 0.9(dB)

2.5. Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
GPRS 850	3.8V	1010
GPRS 1900	3.8V	940
EDGE 850	3.8V	890
EDGE 1900	3.8V	960
WCDMA B2	3.8V	1120
WCDMA B4	3.8V	1050
WCDMA B5	3.8V	930

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2.6. Configuration of Tested System

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

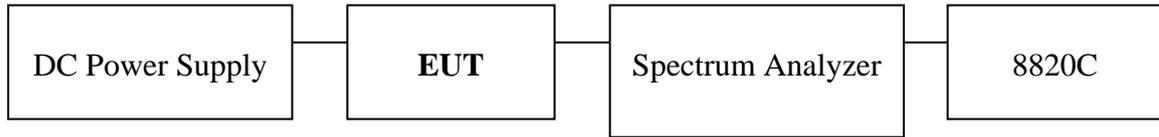
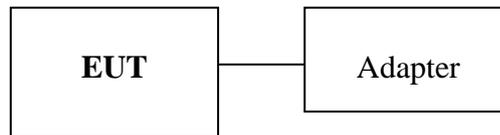


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)



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	8820C	6201107337	shielded	Un-shielded
2.	DC Power Supply	Agilent	E3640A	MY53140006	shielded	Un-shielded
3.	Test Software	DRTU	N/A	N/A	N/A	N/A

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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)	ERP/ EIRP measurement	Compliant
§2.1049(h)	Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §27.53(h)	Out of Band Emissions at Antenna Terminals and Band Edge	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(h)	Field Strength of Spurious Radiation	Compliant
§24.232(d) §27.50(i) (B)	Peak to Average Ratio	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54	Frequency Stability	Compliant

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4. DESCRIPTION OF TEST MODES

4.1. The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, 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
GPRS/EDGE 850	E2-plan	E2-plan
GPRS/EDGE 1900	H-plan	H-plan
WCDMA/HSPA Band II	H-plan	H-plan
WCDMA/HSPA Band IV	H-plan	H-plan
WCDMA/HSPA Band V	E2-plan	E2-plan

GSM/GPRS/EDGE MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
ERP	128 to 251	128, 190, 251	GPRS/EDGE 850
EIRP	512 to 810	512, 661, 810	GPRS/EDGE 1900
FREQUENCY STABILITY	128 to 251 512 to 810	190 661	GPRS 850 GPRS 1900
OCCUPIED BANDWIDTH	128 to 251 512 to 810	128, 190, 251 512, 661, 810	GPRS/EDGE 850 GPRS/EDGE 1900
PEAK TO AVERAGE RATIO	128 to 251 512 to 810	128, 190, 251 512, 661, 810	GPRS/EDGE 850 GPRS/EDGE 1900
BAND EDGE	128 to 251 512 to 810	128, 251 512, 810	GPRS/EDGE 850 GPRS/EDGE 1900
CONDUCTED EMISSION	128 to 251 512 to 810	128, 190, 251 512, 661, 810	GPRS/EDGE 850 GPRS/EDGE 1900
RADIATED EMISSION	128 to 251 512 to 810	128, 190, 251 512, 661, 810	GPRS 850 GPRS 1900

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WCDMA/HSPA MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
ERP	4132 to 4233	4132, 4183, 4233	WCDMA/HSPA Band V
EIRP	9262 to 9538 1312 to 1513	9262, 9400, 9583 1312, 1413, 1513	WCDMA/HSPA Band II WCDMA/HSPA Band IV
FREQUENCY STABILITY	4132 to 4233 1312 to 1513 9262 to 9538	4183 1413 9400	WCDMA Band II WCDMA Band IV WCDMA Band V
OCCUPIED BANDWIDTH	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9583	WCDMA/HSPA Band II WCDMA/HSPA Band IV WCDMA/HSPA Band V
PEAK TO AVERAGE RATIO	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9583	WCDMA/HSPA Band II WCDMA/HSPA Band IV WCDMA/HSPA Band V
BAND EDGE	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4233 1312, 1513 9262, 9583	WCDMA Band II WCDMA Band IV WCDMA Band V
CONDCUDED EMISSION	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9583	WCDMA Band II WCDMA Band IV WCDMA Band V
RADIATED EMISSION	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9583	WCDMA Band II HSDPA Band IV HSUPA Band V

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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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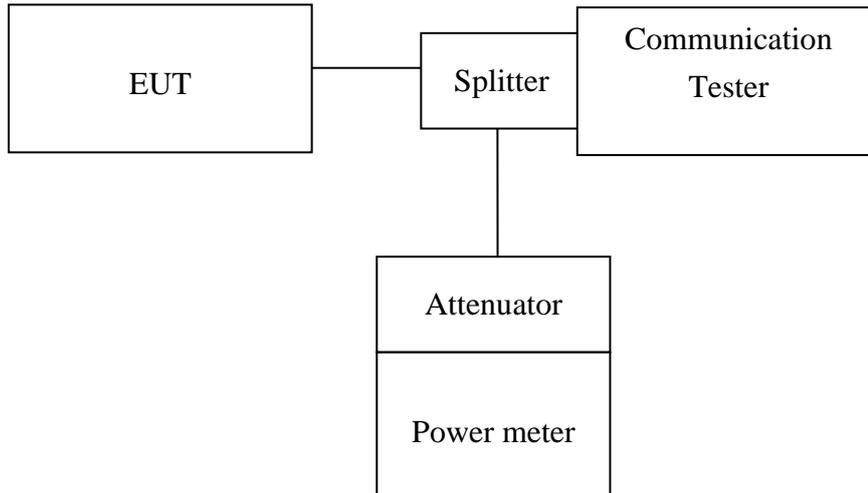
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6. RF CONDUCTED OUTPUT POWER MEASUREMENT

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 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	04/23/2014	04/22/2015
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/18/2014	06/17/2015
DC Block	PASTERNAK	PE8210	RF29	12/19/2014	12/18/2015
Splitter	RF-LAMBAD	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	05/31/2014	05/30/2015

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6.5. Measurement Result

RF Conducted Output Power

GPRS/EDGE (GMSK; 8-PSK) Result:

EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 1UP) Class 8 (dBm)	Average Burst Power (4DN 1UP) Class 8 (dBm)	Peak Power (4DN 2UP) Class 10 (dBm)	Average Burst Power (4DN 2UP) Class 10 (dBm)
GPRS 850	824.2	128	31.90	31.80	29.60	29.50
	836.6	190	31.80	31.70	29.70	29.50
	848.8	251	32.00	31.90	29.70	29.60
GPRS 1900	1850.2	512	29.20	29.00	26.30	26.10
	1880.0	661	29.10	28.90	26.20	26.00
	1909.8	810	29.10	28.90	26.20	26.00

EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 1UP) Class 8 (dBm)	Average Burst Power (4DN 1UP) Class 8 (dBm)	Peak Power (4DN 2UP) Class 10 (dBm)	Average Burst Power (4DN 2UP) Class 10 (dBm)	Peak Power (4DN 3UP) Class 12 (dBm)	Average Burst Power (4DN 3UP) Class 12 (dBm)	Peak Power (4DN 4UP) Class 12 (dBm)	Average Burst Power (4DN 4UP) Class 12 (dBm)
EDGE 850	824.2	128	29.20	26.00	26.90	23.80	25.30	22.20	23.70	20.70
	836.6	190	29.20	26.00	27.00	23.80	25.30	22.20	23.70	20.70
	848.8	251	29.30	26.10	27.00	23.90	25.40	22.30	23.80	20.80
EDGE 1900	1850.2	512	28.00	25.00	25.70	22.60	24.20	21.10	22.60	19.60
	1880.0	661	28.10	25.10	25.80	22.70	24.20	21.20	22.70	19.70
	1909.8	810	28.10	25.10	25.80	22.60	24.20	21.10	22.70	19.60

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WCDMA MODE:

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

Results:

EUT Mode		WCDMA Band II		HSDPA Band II		HSUPA Band II	
Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)
1852.4	9262	26.49	23.03	25.48	21.82	25.51	21.64
1880.0	9400	26.33	22.93	25.35	21.57	25.41	21.54
1907.6	9538	25.74	22.66	24.89	21.36	24.87	21.30

EUT Mode		WCDMA Band IV		HSDPA Band IV		HSUPA Band IV	
Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)
1712.4	1312	26.29	23.02	25.33	21.77	25.29	21.61
1732.6	1412	26.28	22.98	25.28	21.69	25.32	21.68
1752.6	1513	26.09	22.84	25.06	21.48	25.08	21.48

EUT Mode		WCDMA Band V		HSDPA Band V		HSUPA Band V	
Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)
826.4	4132	26.72	23.49	25.80	22.23	25.94	22.30
836.6	4183	26.44	23.18	25.49	21.85	25.55	22.01
846.6	4233	26.08	22.96	25.18	21.71	25.37	21.78

Note: The results above reflect max power with all up bits.

Cable loss offset: Low Band: 0.7dB, High Band: 0.9dB

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HSDPA Release 8 MODE:

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

HSDPA SUB-TEST Setting

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

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

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

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Results:

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		9262	9400	9538		
HSDPA (B2)	1	23.20	22.82	22.52	20.3dBm – 25.7dBm	Pass
	2	22.91	22.79	22.51	20.3dBm – 25.7dBm	Pass
	3	22.72	22.37	21.99	19.8dBm – 25.7dBm	Pass
	4	22.79	22.38	22.11	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	RMS Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		1312	1413	1513		
HSDPA (B4)	1	22.73	23.08	22.68	20.3dBm – 25.7dBm	Pass
	2	22.90	22.84	22.69	20.3dBm – 25.7dBm	Pass
	3	22.25	22.63	22.15	19.8dBm – 25.7dBm	Pass
	4	22.32	22.64	22.27	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		4132	4183	4233		
HSDPA (B5)	1	23.28	23.04	23.08	20.3dBm – 25.7dBm	Pass
	2	23.42	23.07	22.83	20.3dBm – 25.7dBm	Pass
	3	22.82	22.56	22.59	19.8dBm – 25.7dBm	Pass
	4	22.87	22.60	22.65	19.8dBm – 25.7dBm	Pass

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HSPA (HSDPA & HSUPA) Release 8 MODE

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

HSPA SUB-TEST Setting

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

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

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

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Results:

Mode	Sub-test	Avg. Power (dBm)			Power Class 3 Limitation (dBm)	Comments
		Channel				
		9262	9400	9538		
HSUPA(B2)	1	22.95	22.91	22.60	18.8dBm – 25.7dBm	Pass
	2	21.00	20.98	20.64	16.8dBm – 25.7dBm	Pass
	3	22.01	21.93	21.68	17.8dBm – 25.7dBm	Pass
	4	21.13	21.03	20.68	16.8dBm – 25.7dBm	Pass
	5	22.84	22.77	22.51	18.8dBm – 25.7dBm	Pass

Mode	Sub-test	RMS Power (dBm)			Power Class 3 Limitation (dBm)	Comments
		Channel				
		1312	1413	1513		
HSUPA (B4)	1	22.94	22.96	22.78	18.8dBm – 25.7dBm	Pass
	2	20.99	21.03	20.82	16.8dBm – 25.7dBm	Pass
	3	22.00	21.98	21.86	17.8dBm – 25.7dBm	Pass
	4	21.12	21.08	20.86	16.8dBm – 25.7dBm	Pass
	5	22.83	22.82	22.69	18.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm)			Power Class 3 Limitation (dBm)	Comments
		Channel				
		4132	4183	4233		
HSUPA(B5)	1	23.45	23.11	22.88	18.8dBm – 25.7dBm	Pass
	2	21.51	21.19	20.92	16.8dBm – 25.7dBm	Pass
	3	22.49	22.17	21.96	17.8dBm – 25.7dBm	Pass
	4	21.56	21.25	21.00	16.8dBm – 25.7dBm	Pass
	5	23.31	22.94	22.77	18.8dBm – 25.7dBm	Pass

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Minimum Communications Power Measurement

PCS 1900 band

PCL	0	1	2	3	4	5	6	7	8
Output power (dBm)	27.6	27.1	24.2	23.5	21.5	19.5	17.5	15.7	13.7

PCL	9	10	11	12	13	14	15
Output power (dBm)	12	9.9	8	5.8	3.9	2	1.5

Note: The EUT output power was controlled by simulator. Set Communication Tester CMU200 PCL as above, and get the mobile phone output power reading.

WCDMA/HSDPA/HSUPA band II, IV, V

The EUT output power was controlled by simulator. Set Communication Tester CMU200 function key “UE Power Control” and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm. Then record the read (see page 22 for measurement data). The min. power was measures by a function key “minimum power” then record the read. It is -52.3dBm. The power variation can be 0.1dB step by setting.

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7. EFFECTIVE RADIATED POWER AND EQUIVALENT ISOTROPIC RADIATED POWER MEASUREMENT

7.1. Standard Applicable

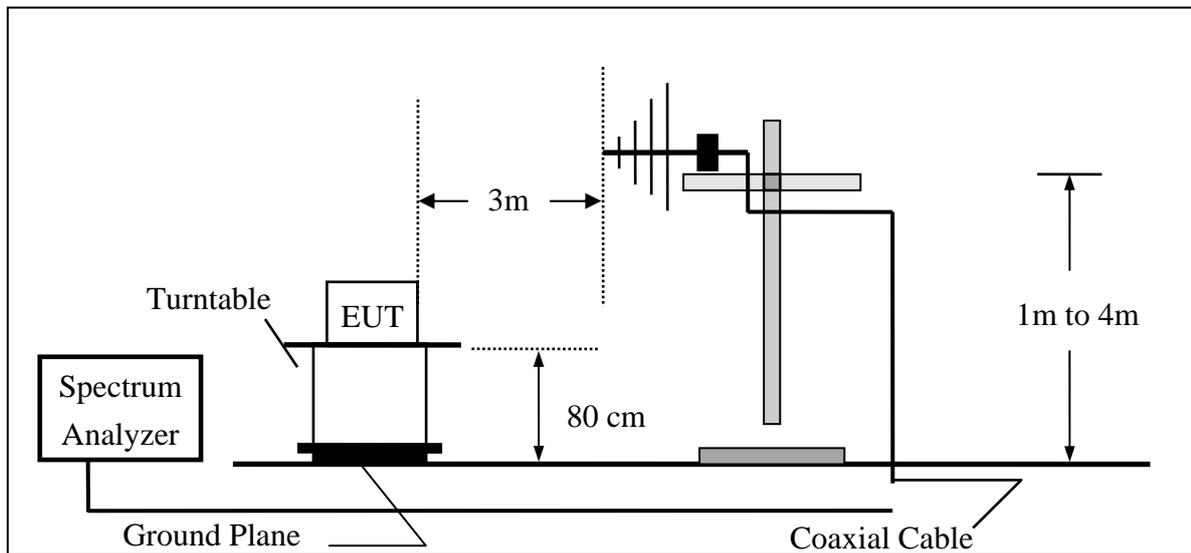
FCC 22.913(a) Mobile station is limited to 7W.

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

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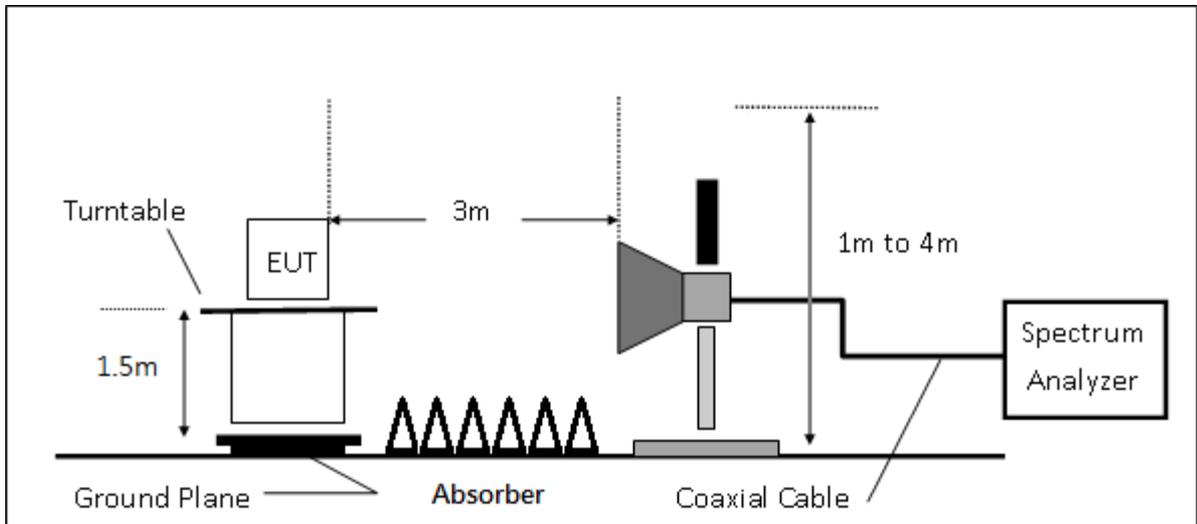
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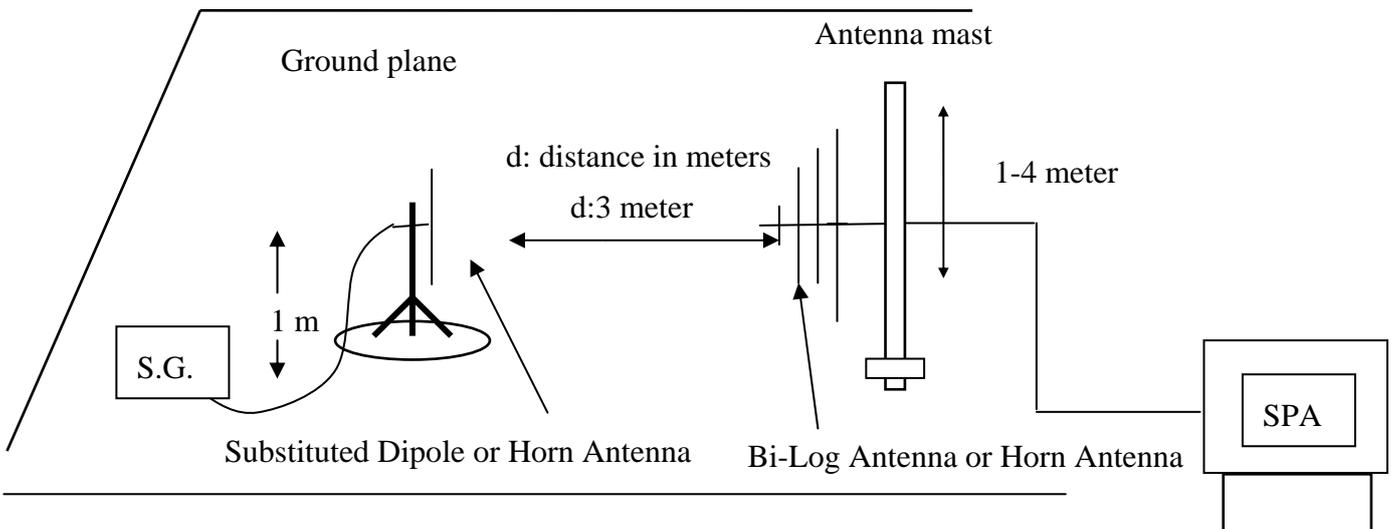
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(B) Radiated Power Test Set-UP Frequency Over 1 GHz



(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 $VBW \geq 3 \times RBW$.
 - (2) KDB 971168 D01 is adopted, and the procedure as lists under item 4, Measurement of the Average Power over the Fundamental Signal Bandwidth, is followed to set correspondingly for the acquisition of proper measurement data.
Set frequency = nominal signal center frequency;
Set span = 2 X occupied BW;
Set RBW \approx 1~5% of the span, not to exceed 1 MHz
Set VBW = 3 x RBW;
Select average power (RMS) detector
Set sweep time and number of measurement points to achieve a minimum of 1 millisecond/pt
integration time (ex. Point = 601points, then sweep time = $601 * 10^{-3} = 6s$.)

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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 UE.

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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	04/23/2014	04/22/2015
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	05/31/2014	05/30/2015
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
GPRS 850	824.2	128	V	21.03	5.13	-4.73	21.43	38.45
			H	27.84	5.13	-4.73	28.25	38.45
	836.6	190	V	21.27	5.09	-4.49	21.87	38.45
			H	27.51	5.09	-4.49	28.12	38.45
	848.8	251	V	20.85	5.05	-4.63	21.27	38.45
			H	27.05	5.05	-4.63	27.47	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
EDGE 850	824.2	128	V	18.27	5.13	-4.73	20.28	38.45
			H	25.07	5.13	-4.73	25.48	38.45
	836.6	190	V	18.02	5.09	-4.48	18.63	38.45
			H	24.02	5.09	-4.48	24.63	38.45
	848.8	251	V	18.18	5.05	-4.63	18.60	38.45
			H	24.25	5.05	-4.63	24.67	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
GPRS 1900	1850.2	512	V	26.52	5.35	-5.35	26.52	33.01
			H	22.78	5.35	-5.35	22.78	33.01
	1880.0	661	V	27.02	5.28	-5.41	26.90	33.01
			H	23.42	5.28	-5.41	23.30	33.01
	1909.8	810	V	25.95	5.21	-5.39	25.77	33.01
			H	22.71	5.21	-5.39	22.53	33.01

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
EDGE 1900	1850.2	512	V	25.48	5.35	-5.35	25.48	33.01
			H	20.60	5.35	-5.35	20.60	33.01
	1880.0	661	V	25.38	5.28	-5.41	25.25	33.01
			H	18.63	5.28	-5.41	18.50	33.01
	1909.8	810	V	25.78	5.21	-5.39	25.60	33.01
			H	18.90	5.21	-5.39	18.73	33.01

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
WCDMA B2	1852.4	9262	V	22.76	5.35	-5.35	22.76	33.01
			H	18.05	5.35	-5.35	18.04	33.01
	1880.0	9400	V	22.73	5.28	-5.40	22.61	33.01
			H	16.69	5.28	-5.40	16.57	33.01
	1907.6	9538	V	22.95	5.22	-5.39	22.78	33.01
			H	18.40	5.22	-5.39	18.23	33.01

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
HSDPA B2	1852.4	9262	V	22.12	5.35	-5.35	22.12	33.01
			H	17.15	5.35	-5.35	17.15	33.01
	1880.0	9400	V	22.79	5.28	-5.41	22.66	33.01
			H	17.01	5.28	-5.41	16.89	33.01
	1907.6	9538	V	22.92	5.22	-5.36	22.75	33.01
			H	17.43	5.22	-5.39	17.26	33.01

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
HSUPA B2	1852.4	9262	V	22.55	5.35	-5.35	22.55	33.01
			H	17.56	5.35	-5.35	17.55	33.01
	1880.0	9400	V	22.18	5.28	-5.41	22.06	33.01
			H	16.98	5.28	-5.41	16.86	33.01
	1907.6	9538	V	22.69	5.22	-5.39	22.52	33.01
			H	18.53	5.22	-5.39	18.36	33.01

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 5MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
WCDMA B4	1712.4	1312	V	20.14	5.68	-5.17	20.64	33.01
			H	14.64	5.69	-5.17	15.15	33.01
	1732.6	1413	V	20.16	5.64	-5.24	20.55	33.01
			H	15.31	5.64	-5.24	15.70	33.01
	1752.6	1513	V	20.77	5.59	-5.30	21.06	33.01
			H	15.29	5.59	-5.30	15.58	33.01

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
HSDPA B4	1712.4	1312	V	20.38	5.69	-5.17	20.89	33.01
			H	14.43	5.68	-5.17	14.94	33.01
	1732.6	1413	V	20.56	5.64	-5.24	20.96	33.01
			H	15.13	5.64	-5.24	15.53	33.01
	1752.6	1513	V	20.83	5.59	-5.30	21.12	33.01
			H	16.21	5.59	-5.30	16.50	33.01

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
HSUPA B4	1712.4	1312	V	19.53	5.68	-5.17	20.05	33.01
			H	14.74	5.69	-5.17	15.25	33.01
	1732.6	1413	V	19.79	5.64	-5.24	20.19	33.01
			H	15.91	5.64	-5.24	16.30	33.01
	1752.6	1513	V	20.49	5.59	-5.30	20.79	33.01
			H	16.26	5.59	-5.30	16.55	33.01

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 5MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
WCDMA B5	826.4	4132	V	15.92	5.13	-4.75	16.30	38.45
			H	22.88	5.13	-4.75	23.25	38.45
	836.6	4183	V	14.93	5.09	-4.46	15.57	38.45
			H	21.59	5.09	-4.46	22.22	38.45
	846.6	4233	V	14.25	5.06	-4.52	14.79	38.45
			H	20.54	5.06	-4.52	21.08	38.45

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
HSDPA B5	826.4	4132	V	15.40	5.13	-4.74	15.78	38.45
			H	22.88	5.13	-4.74	23.25	38.45
	836.6	4183	V	15.19	5.09	-4.47	15.81	38.45
			H	21.57	5.09	-4.46	22.20	38.45
	846.6	4233	V	14.31	5.06	-4.52	14.85	38.45
			H	20.70	5.06	-4.52	21.24	38.45

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
HSUPA B5	826.4	4132	V	16.14	5.13	-4.75	16.51	38.45
			H	23.05	5.13	-4.75	23.42	38.45
	836.6	4183	V	15.79	5.09	-4.47	16.41	38.45
			H	21.88	5.09	-4.47	22.50	38.45
	846.6	4233	V	15.03	5.06	-4.52	15.50	38.45
			H	20.99	5.06	-4.52	21.53	38.45

Remark :

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

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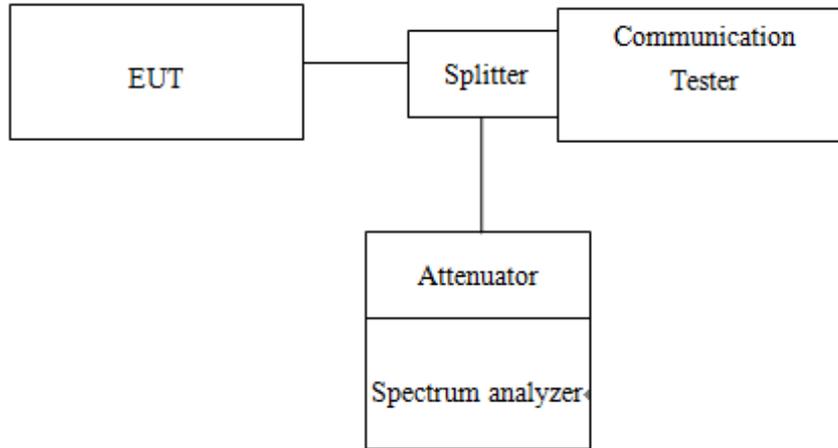
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8. OCCUPIED BANDWIDTH MEASUREMENT

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 span > 2 * 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 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	04/23/2014	04/22/2015
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/18/2014	06/17/2015
DC Block	PASTERNAK	PE8210	RF29	12/19/2014	12/18/2015
Splitter	RF-LAMBAD	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	05/31/2014	05/30/2015

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8.5. Measurement Result

99% Bandwidth

Frequency (MHz)	CH	99% Bandwidth (kHz)	
		GPRS 850	EDGE 850
824.20	128	243.31	246.52
836.60	190	240.40	243.71
848.80	251	240.91	243.46

Frequency (MHz)	CH	99% Bandwidth (kHz)	
		GPRS 1900	EDGE 1900
1850.20	512	243.14	245.96
1880.00	661	243.66	251.18
1909.80	810	242.75	246.75

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Frequency (MHz)	CH	99% Bandwidth (MHz)		
		WCDMA II	HSDPA II	HSUPA II
1850.20	9262	4.0503	4.0484	4.0446
1880.00	9400	4.0603	4.0391	4.0343
1909.80	9538	4.0490	4.0349	4.0398

Frequency (MHz)	CH	99% Bandwidth (MHz)		
		WCDMA IV	HSDPA IV	HSUPA IV
1712.4	1312	4.0498	4.0357	4.0403
1732.6	1413	4.0528	4.0349	4.0301
1752.6	1513	4.0548	4.0366	4.0329

Frequency (MHz)	CH	99% Bandwidth (MHz)		
		WCDMA V	HSDPA V	HSUPA V
826.40	4132	4.0567	4.0410	4.0389
836.60	4183	4.0604	4.0368	4.0456
846.60	4233	4.0563	4.0421	4.0425

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26dB Bandwidth

Frequency (MHz)	CH	26dB Bandwidth (kHz)	
		GPRS 850	EDGE 850
824.20	128	319.2	317.5
836.60	190	318.8	322.0
848.80	251	315.5	313.7

Frequency (MHz)	CH	26dB Bandwidth (kHz)	
		GPRS 1900	EDGE 1900
1850.20	512	316.1	312.2
1880.00	661	314.7	318.3
1909.80	810	310.6	315.7

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Frequency (MHz)	CH	26dB Bandwidth (MHz)		
		WCDMA II	HSDPA II	HSUPA II
1850.20	9262	4.587	4.572	4.553
1880.00	9400	4.579	4.571	4.572
1909.80	9538	4.610	4.570	4.580

Frequency (MHz)	CH	26dB Bandwidth (MHz)		
		WCDMA IV	HSDPA IV	HSUPA IV
1712.4	1312	4.583	4.549	4.579
1732.6	1413	4.584	4.562	4.554
1752.6	1513	4.591	4.555	4.564

Frequency (MHz)	CH	26dB Bandwidth (MHz)		
		WCDMA V	HSDPA V	HSUPA V
826.40	4132	4.587	4.561	4.589
836.60	4183	4.603	4.560	4.575
846.60	4233	4.610	4.569	4.571

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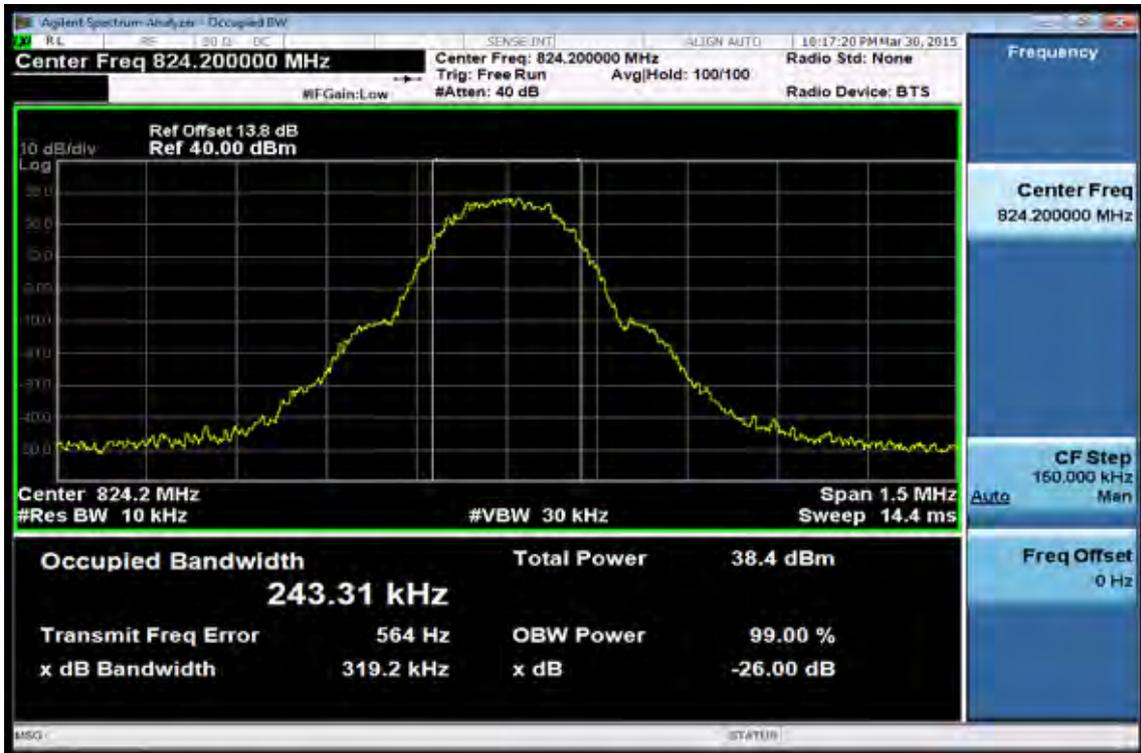
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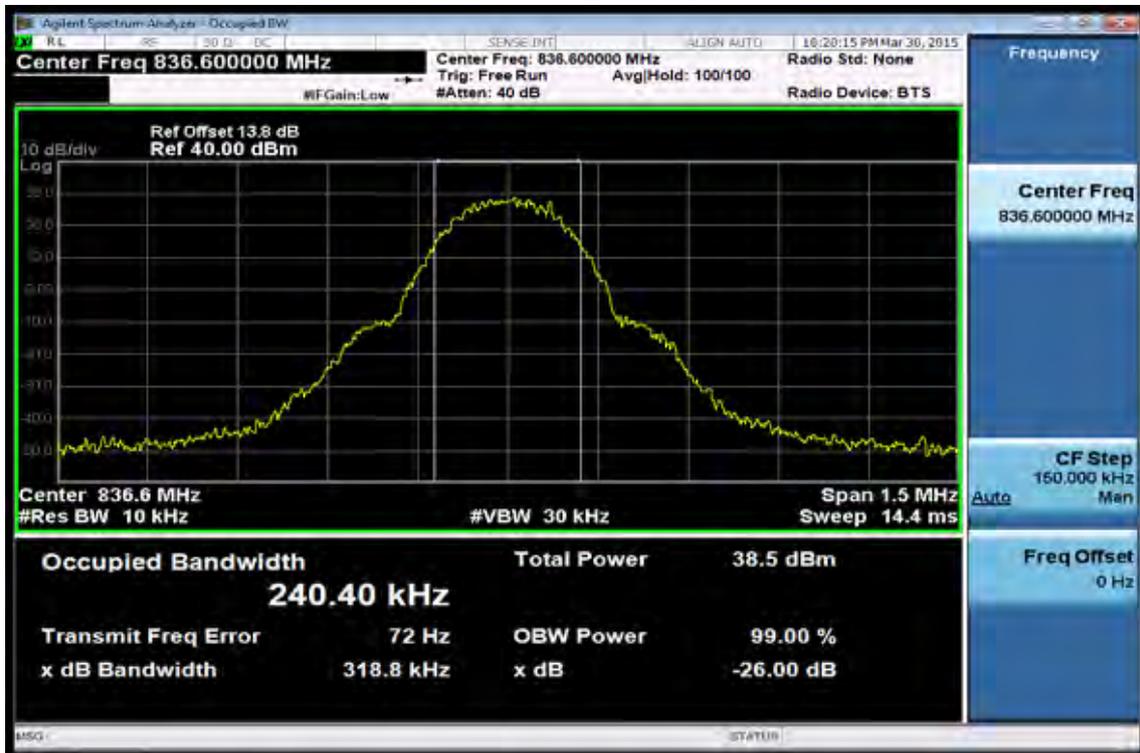
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99% Bandwidth Test Data

GPRS 850 Channel Low



GPRS 850 Channel Mid



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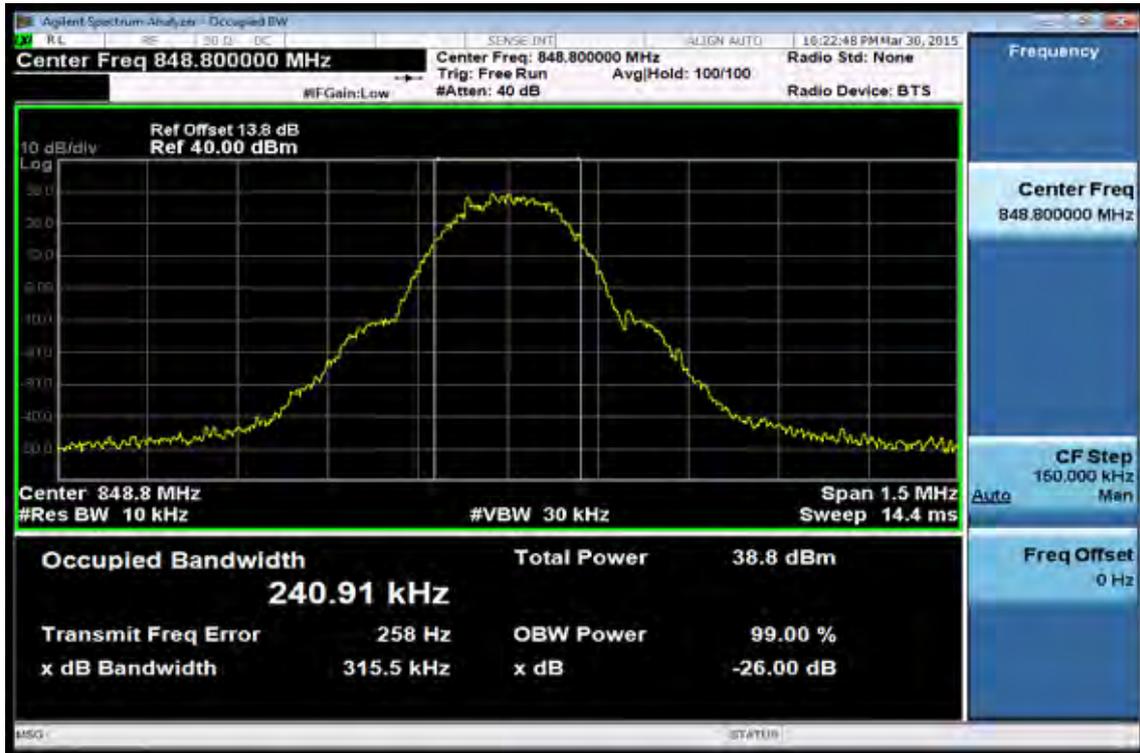
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GPRS 850 Channel High



EDGE 850 Channel Low



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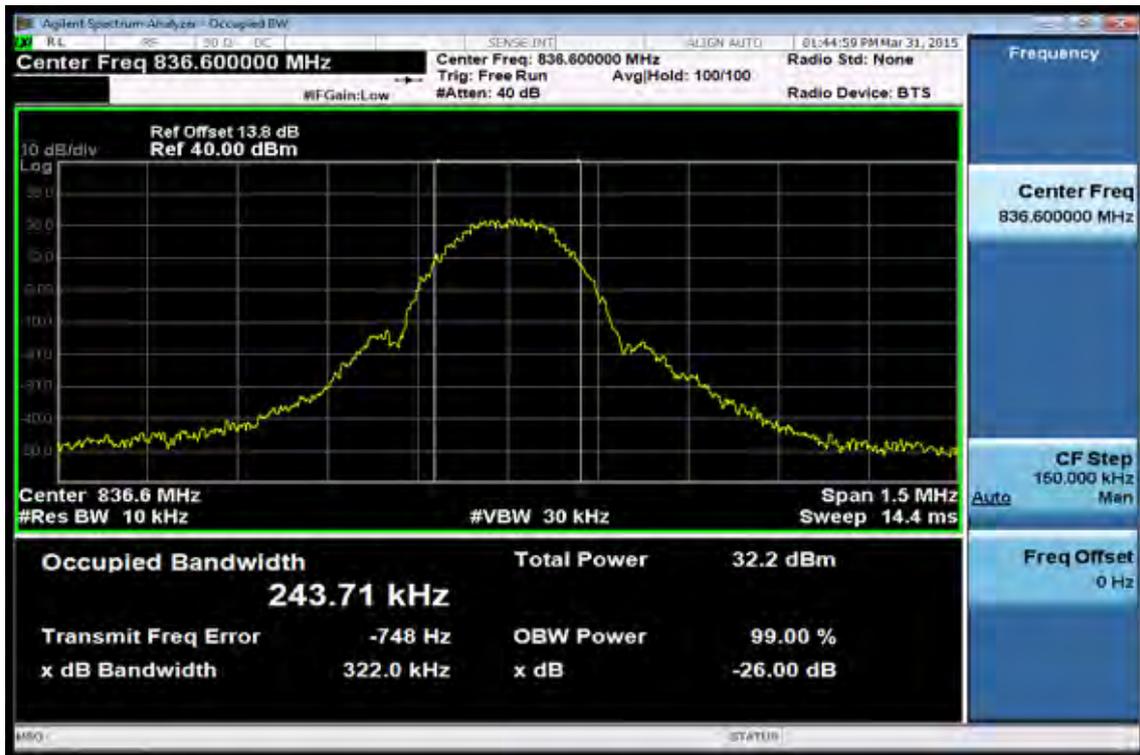
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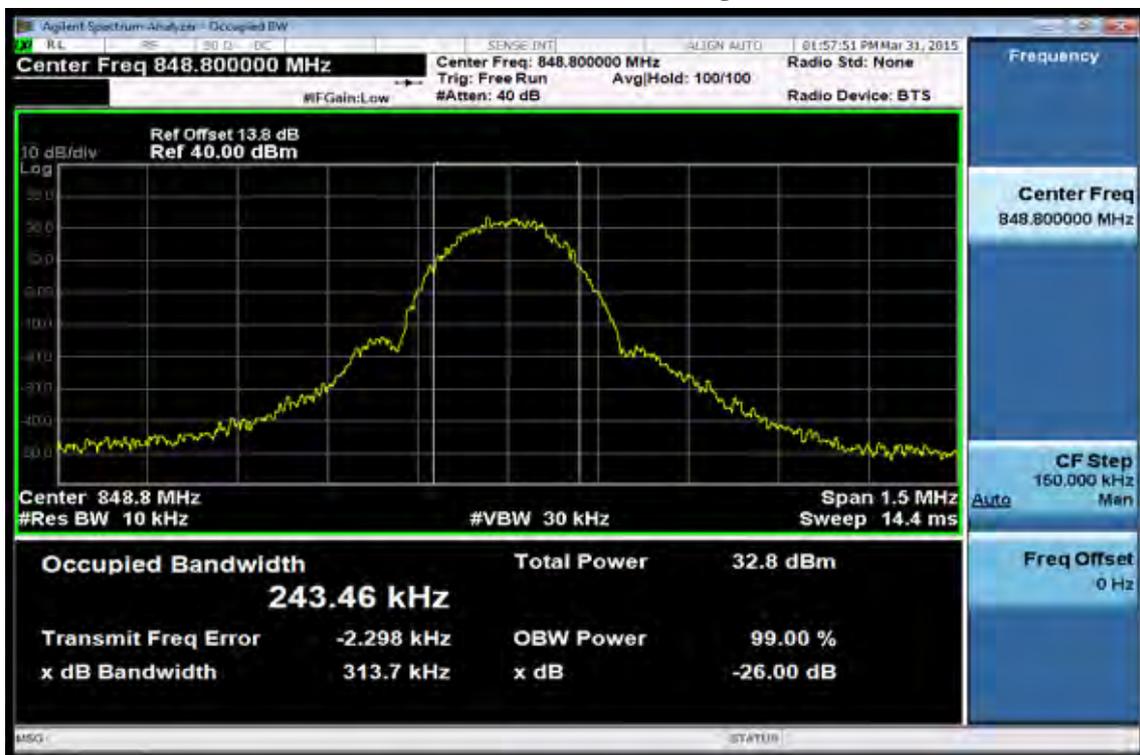
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EDGE 850 Channel Mid



EDGE 850 Channel High



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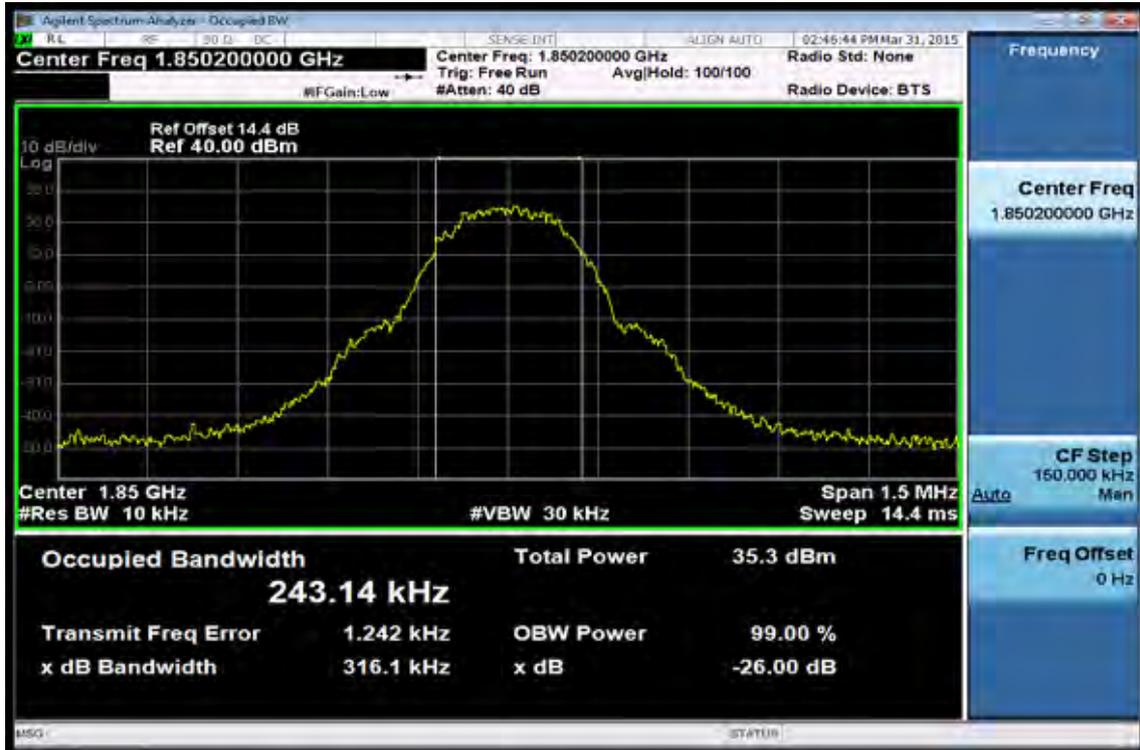
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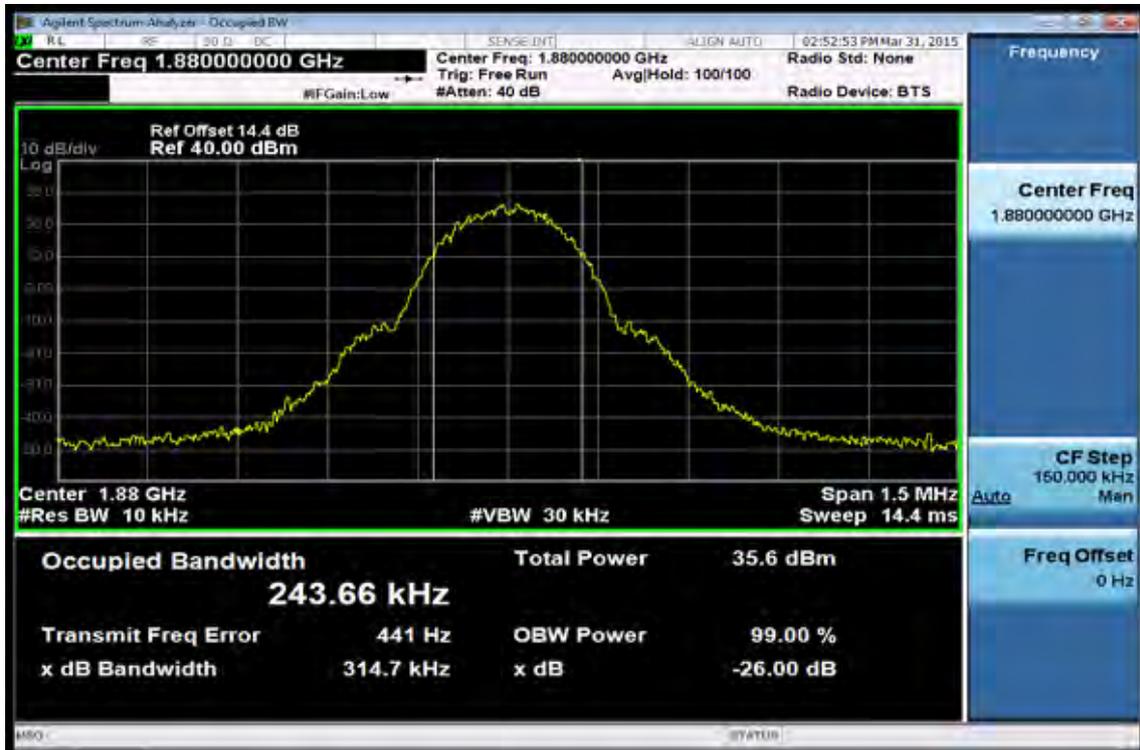
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GPRS 1900 Channel Low



GPRS 1900 Channel Mid



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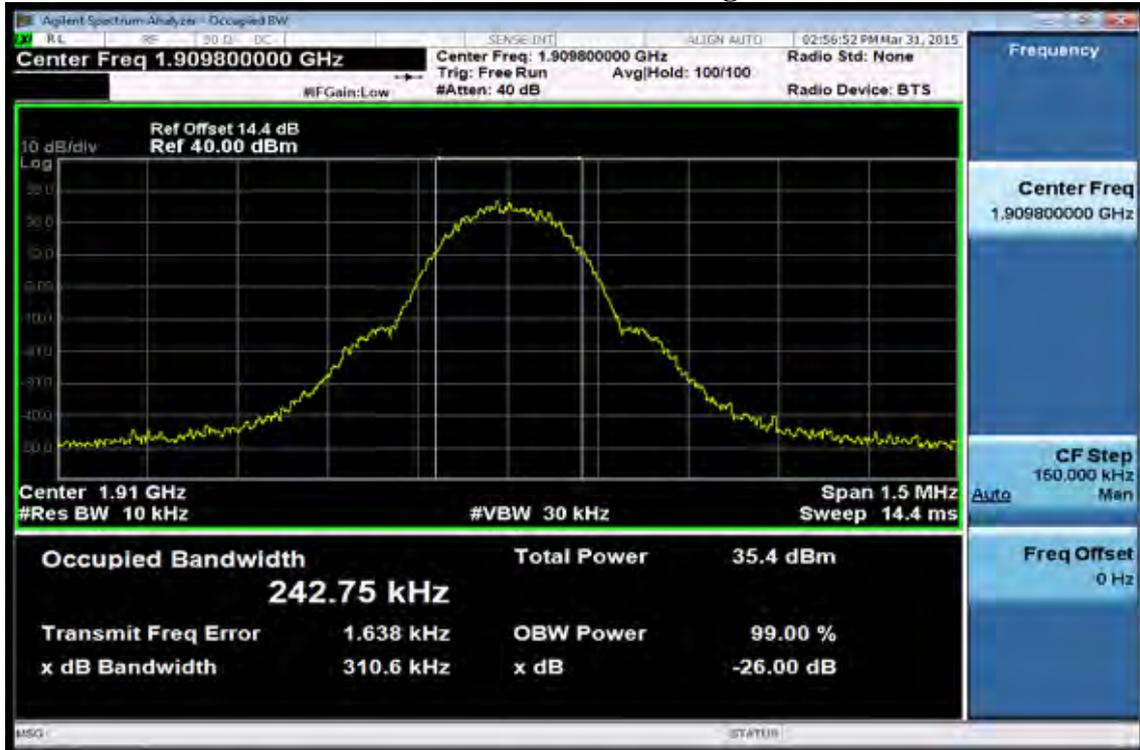
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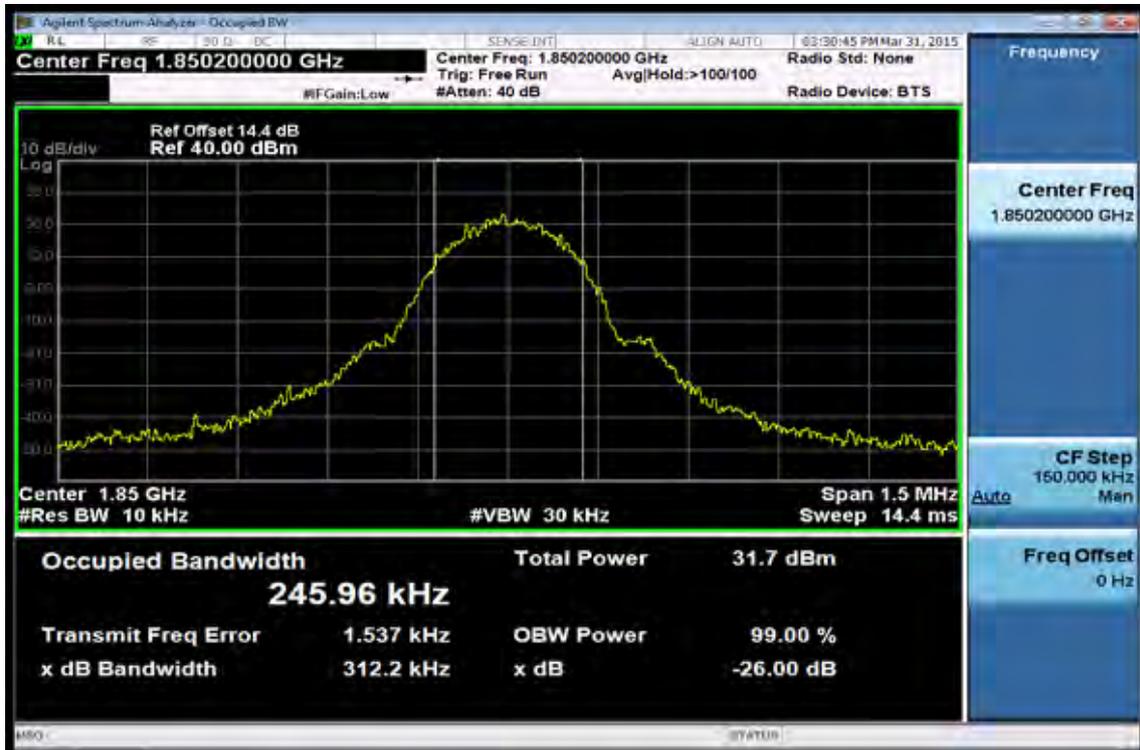
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GPRS 1900 Channel High



EDGE 1900 Channel Low



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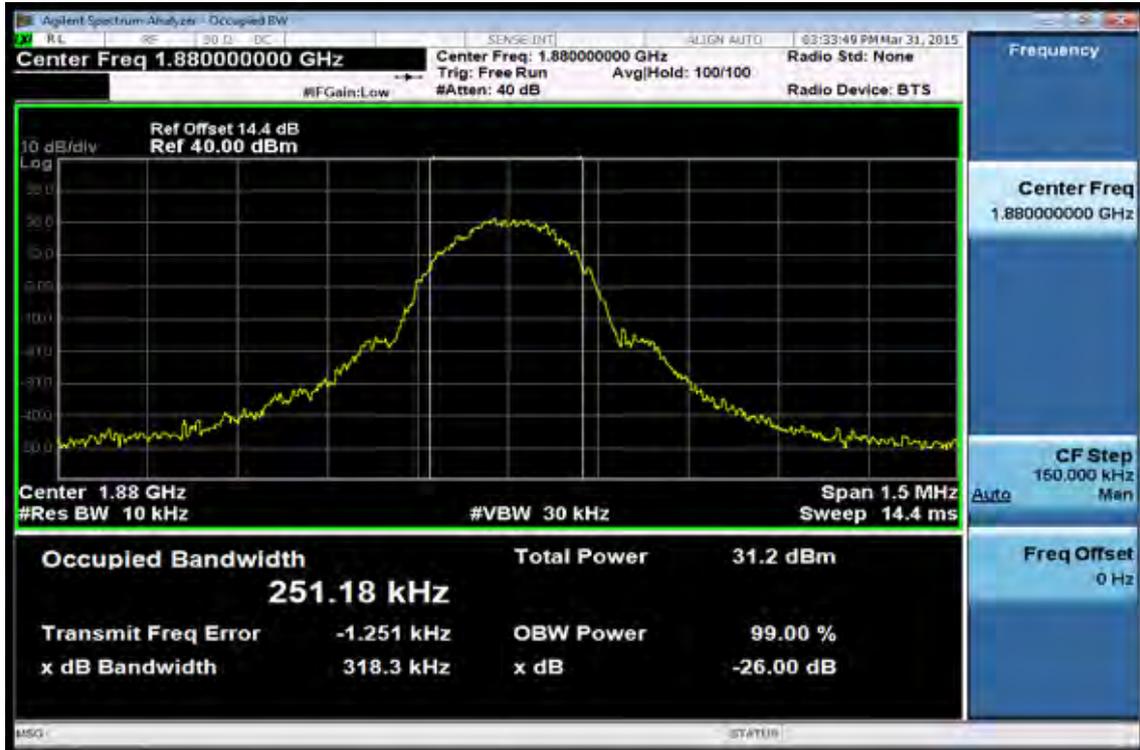
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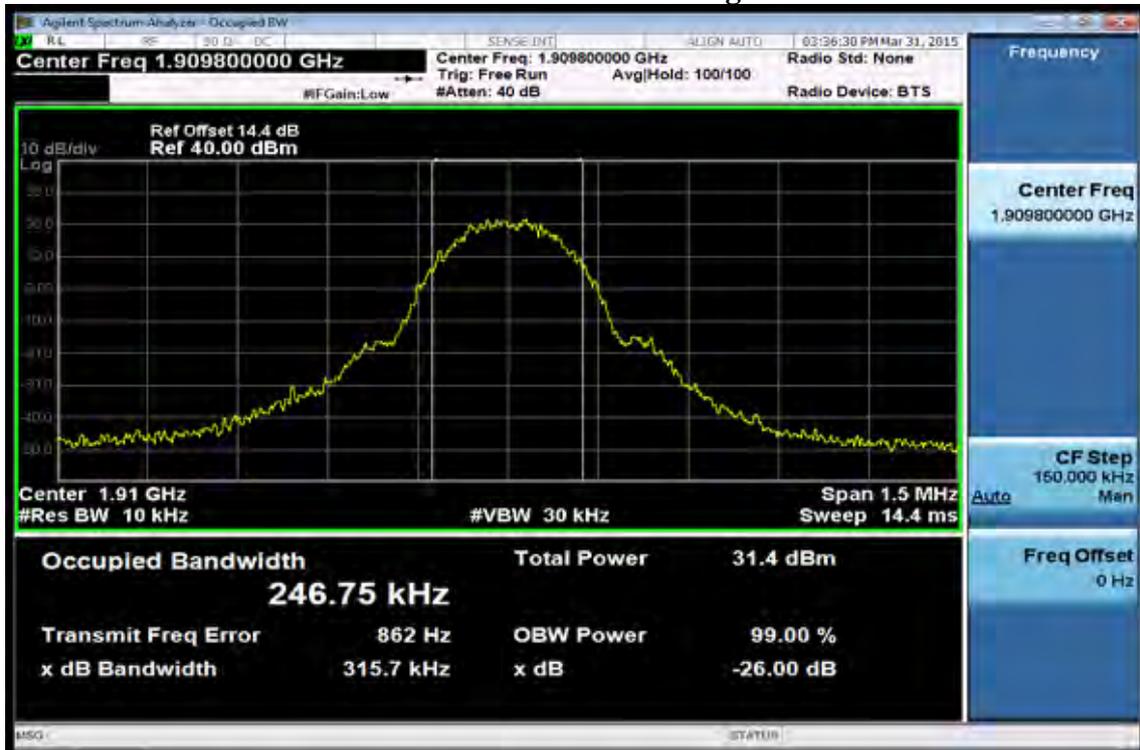
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EDGE 1900 Channel Mid



EDGE 1900 Channel High



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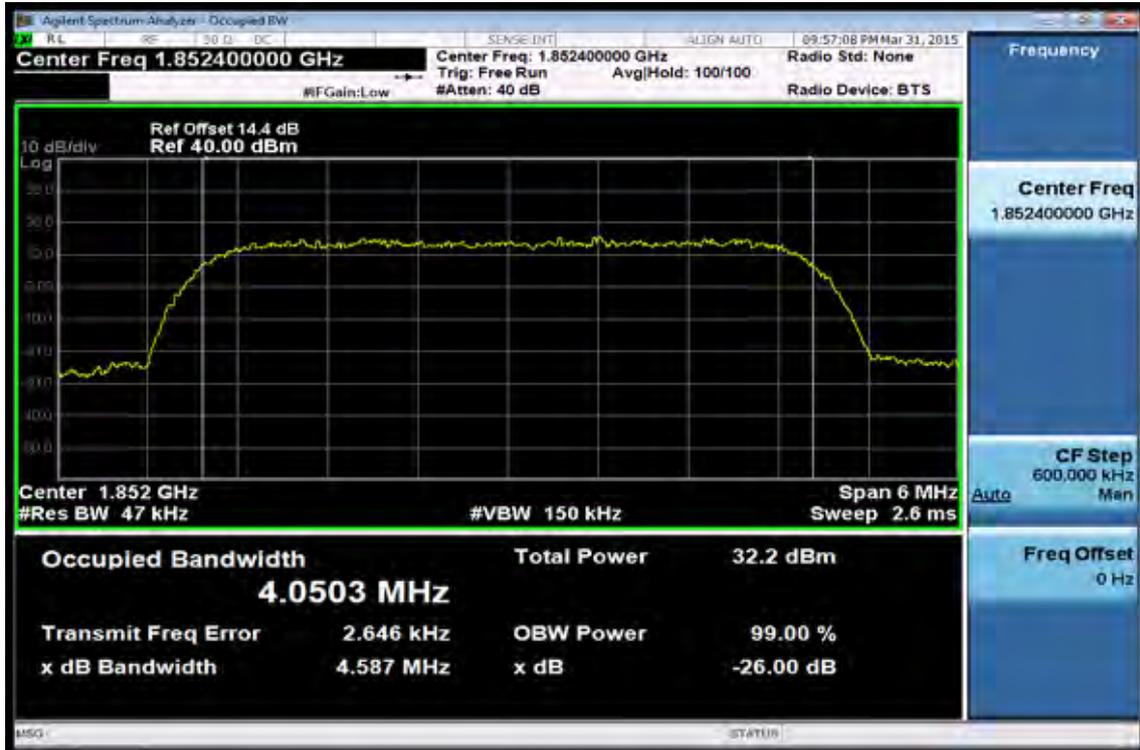
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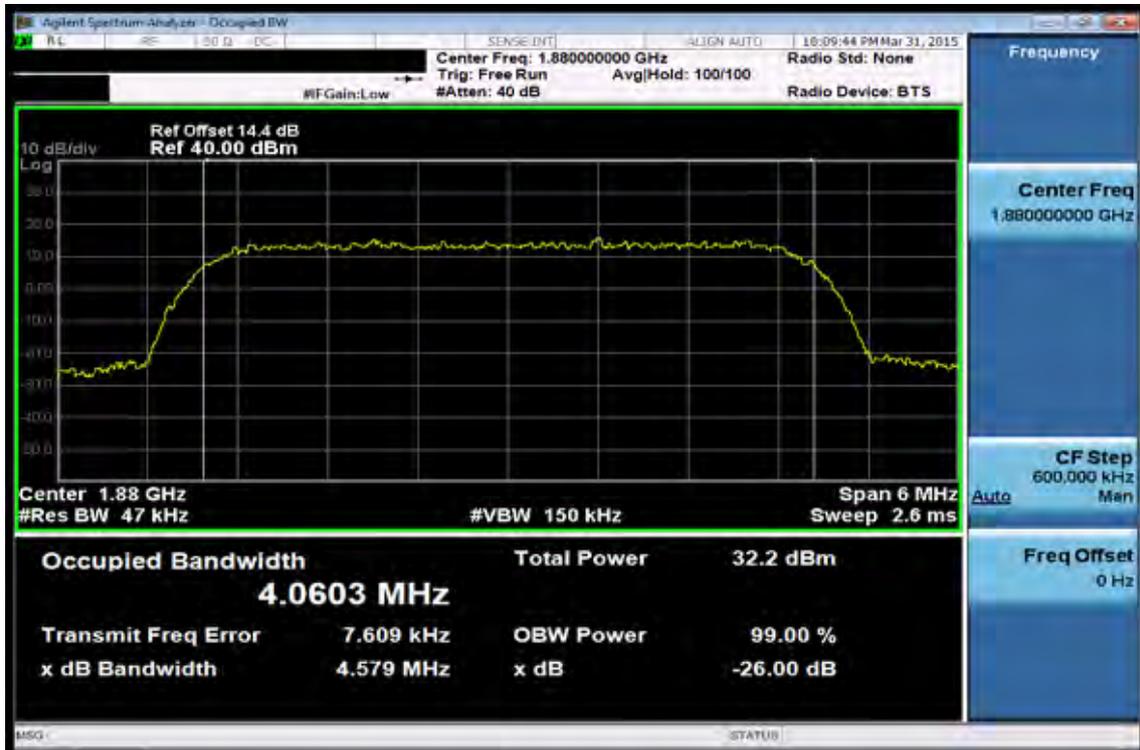
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WCDMA II Channel Low



WCDMA II Channel Mid



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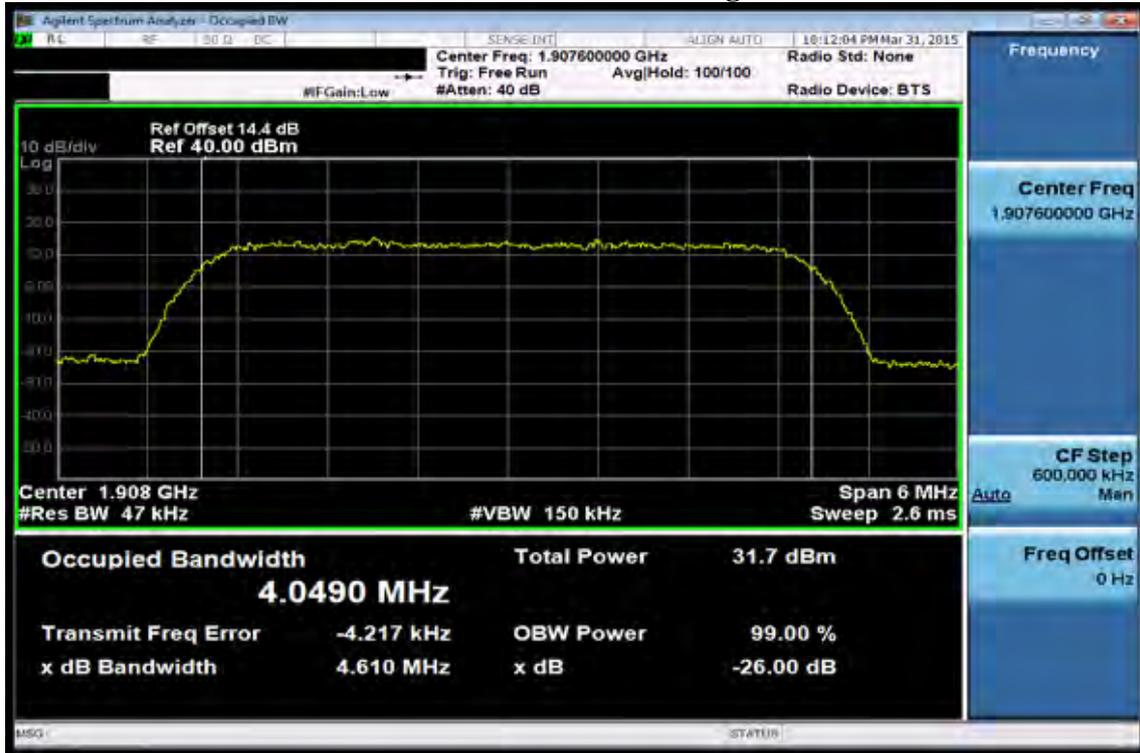
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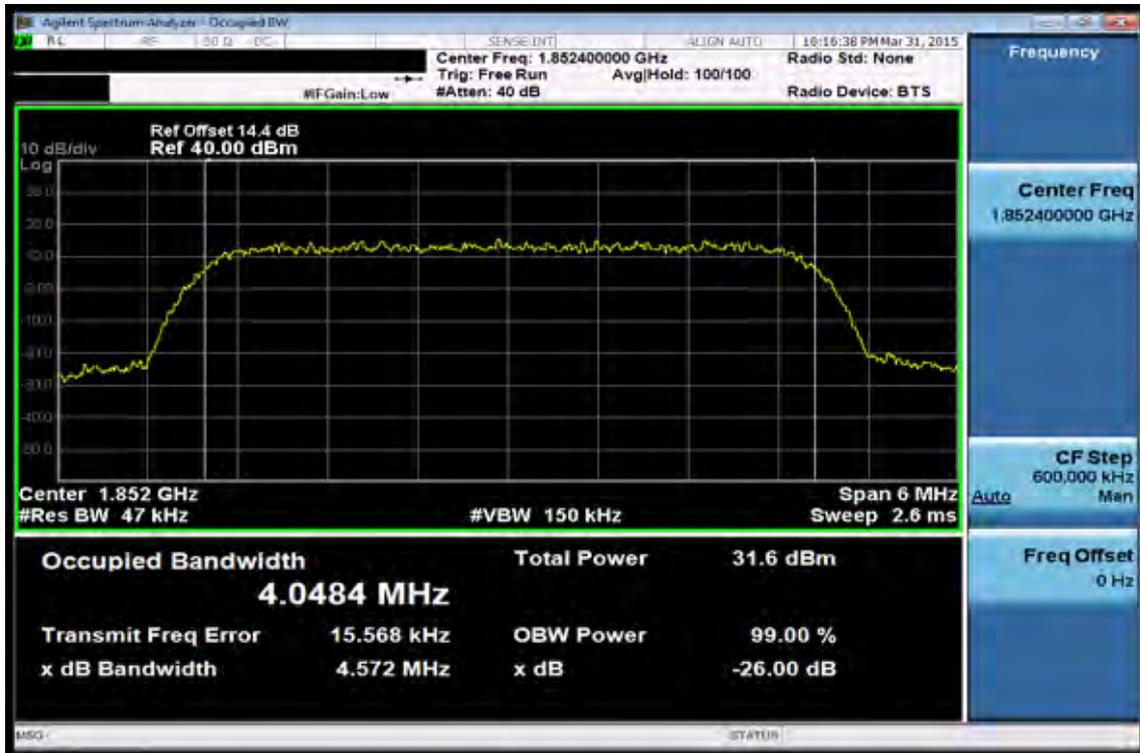
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WCDMA II Channel High



HSDPA II Channel Low



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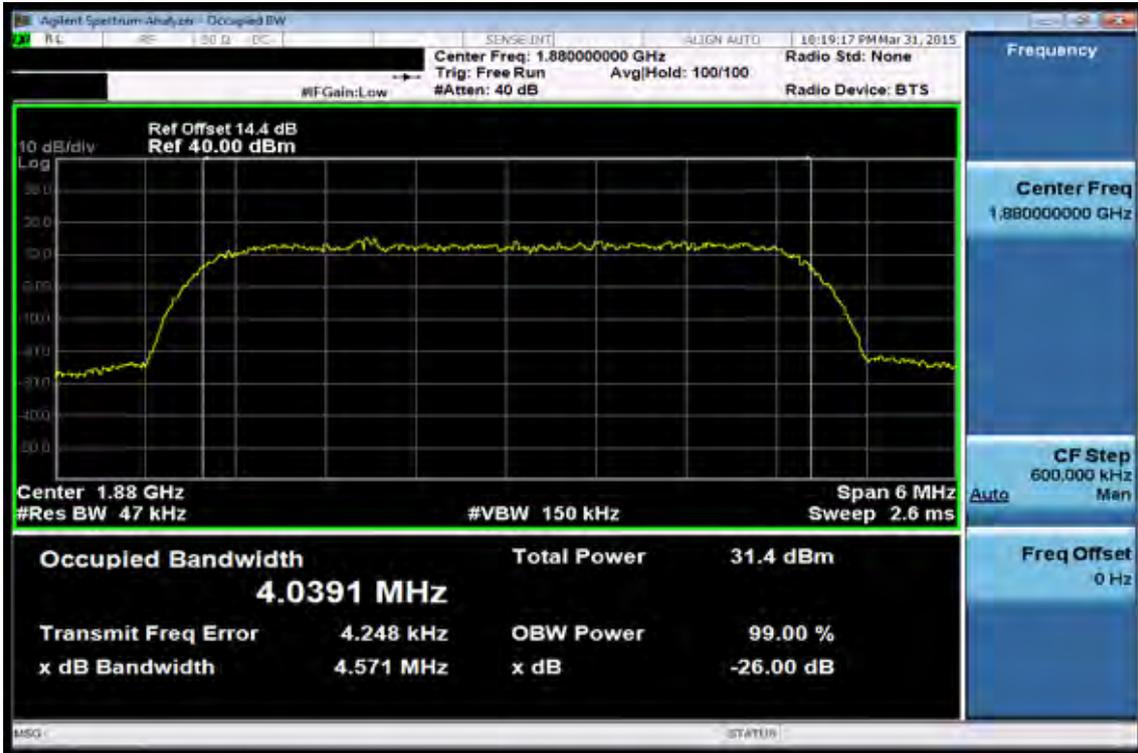
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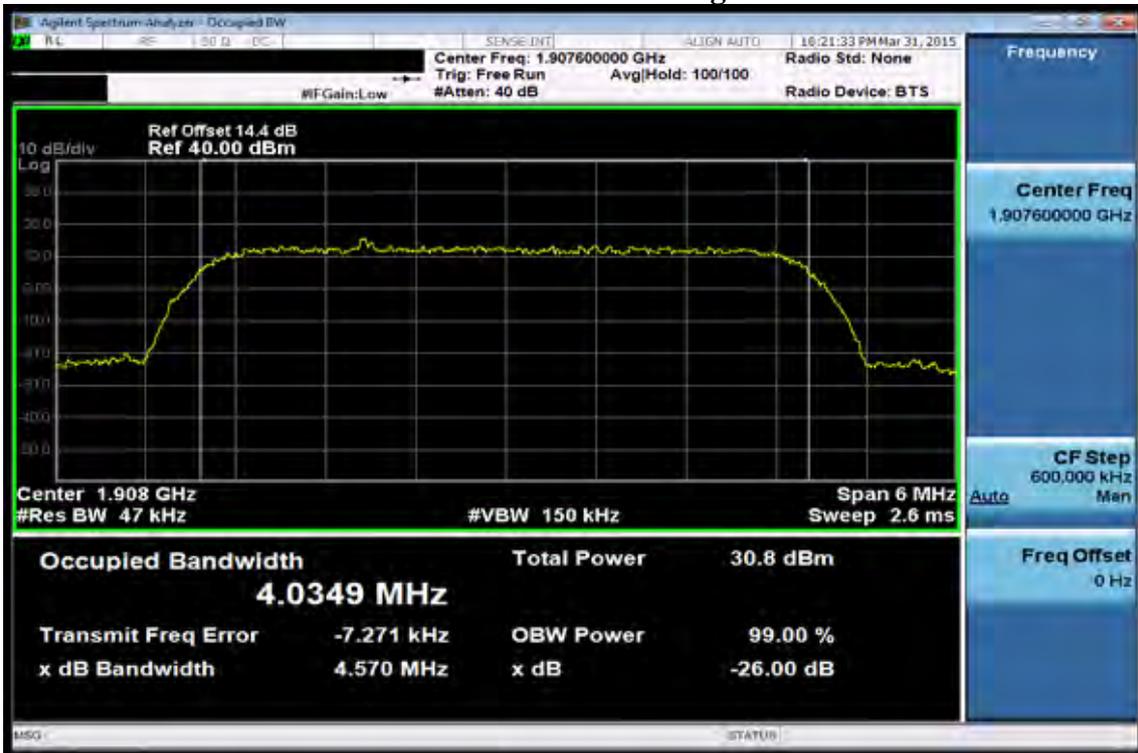
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HSDPA II Channel Mid



HSDPA II Channel High



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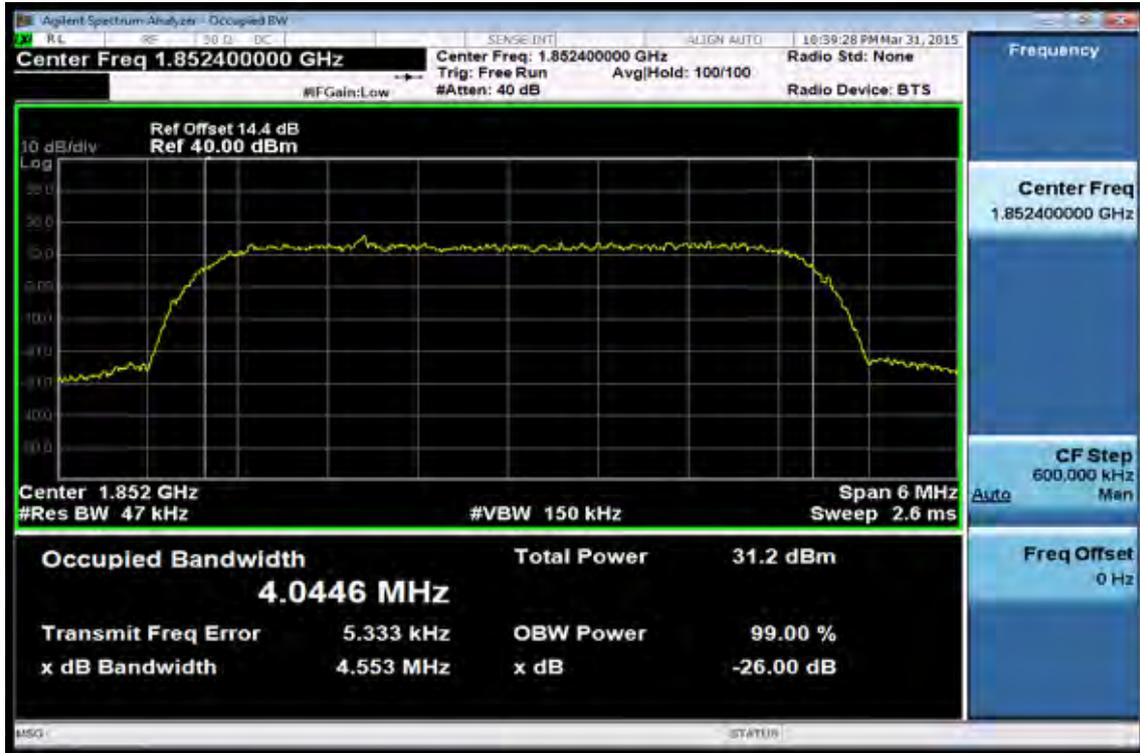
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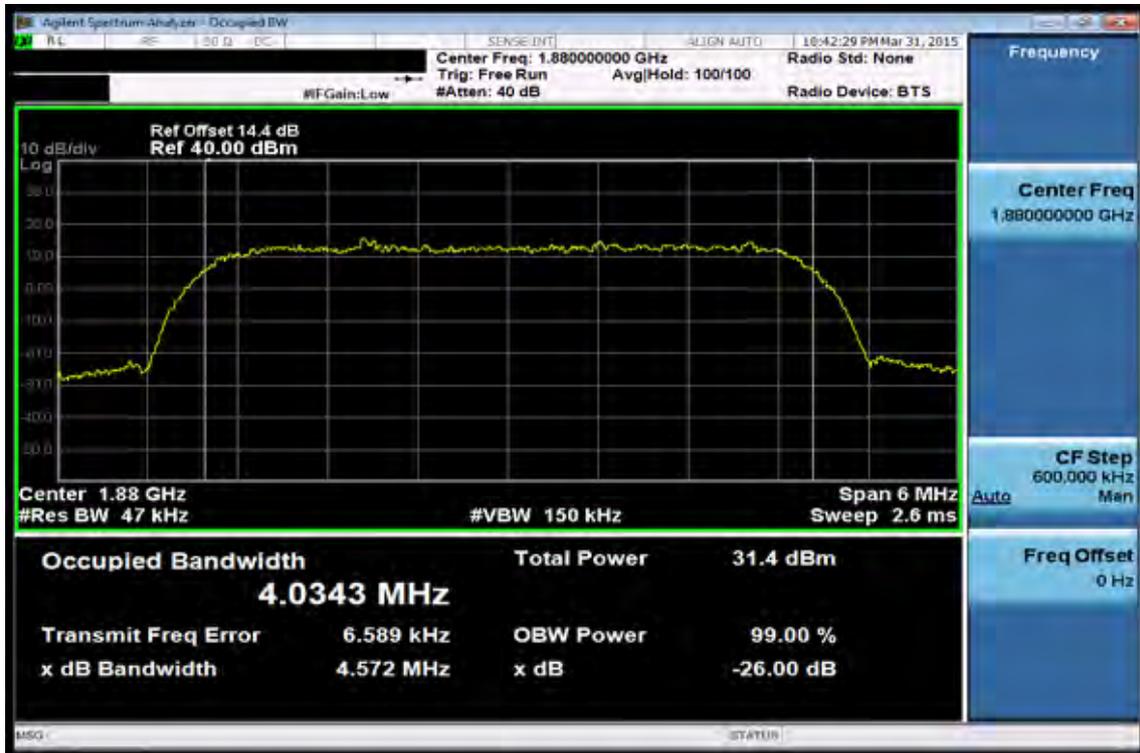
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HSUPA II Channel Low



HSUPA II Channel Mid



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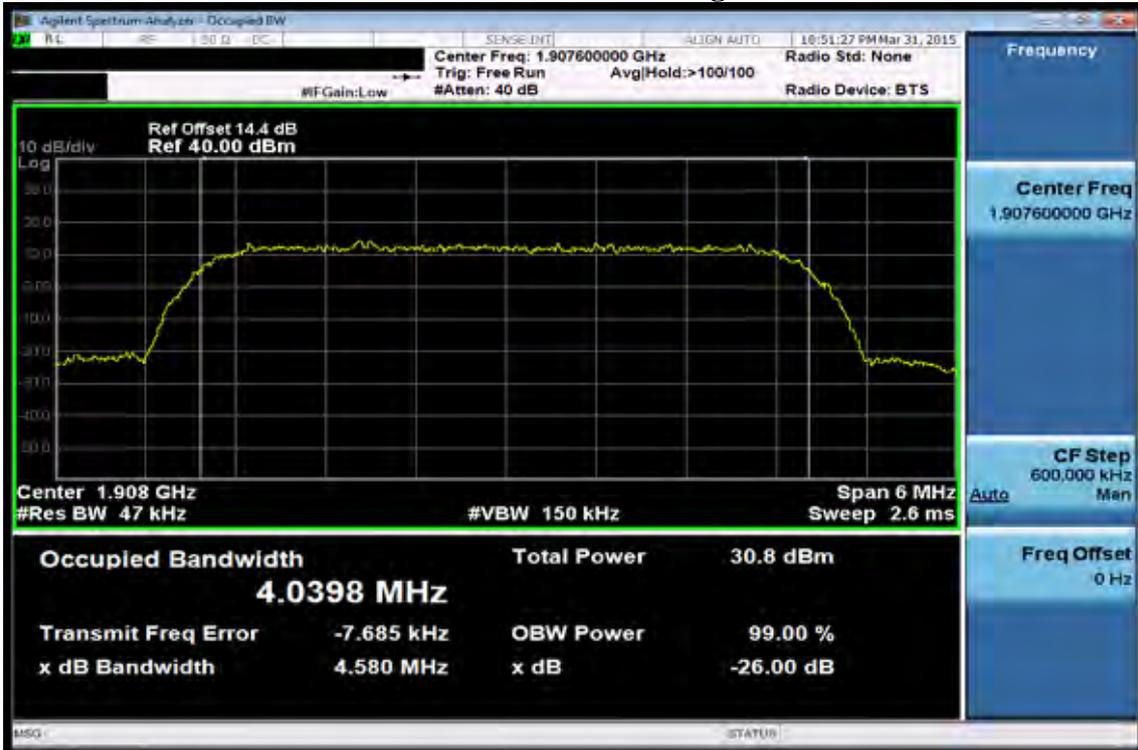
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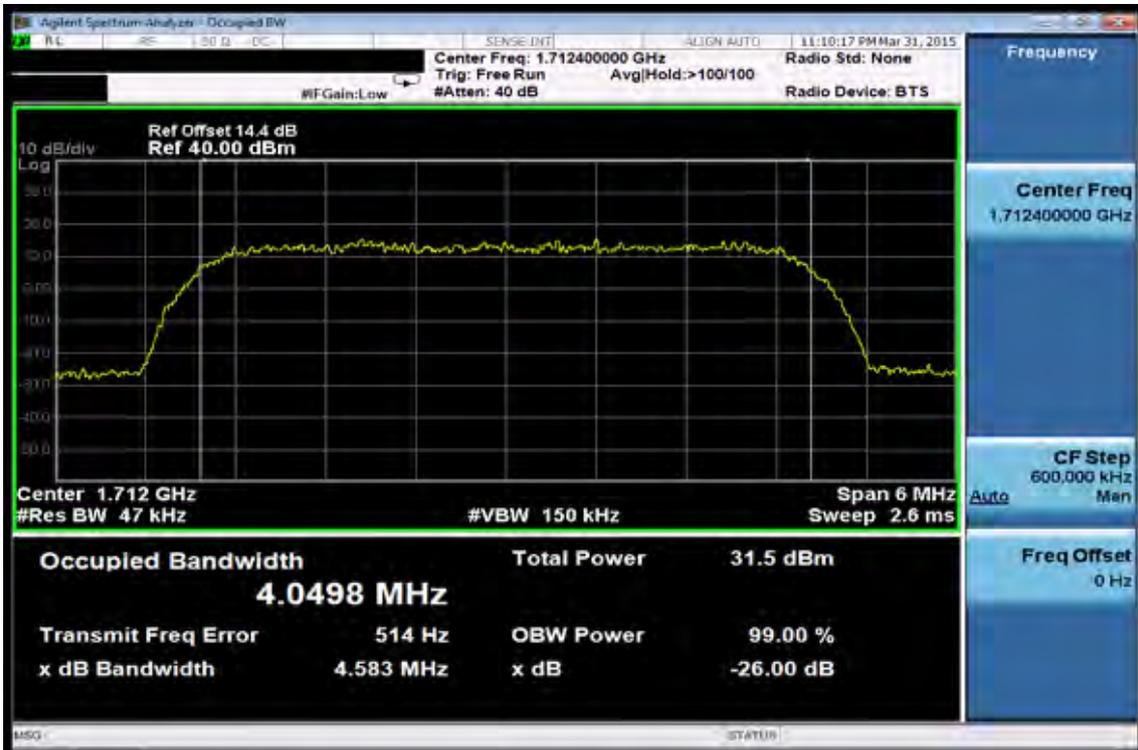
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Member of SGS Group

HSUPA II Channel High



WCDMA IV Channel Low



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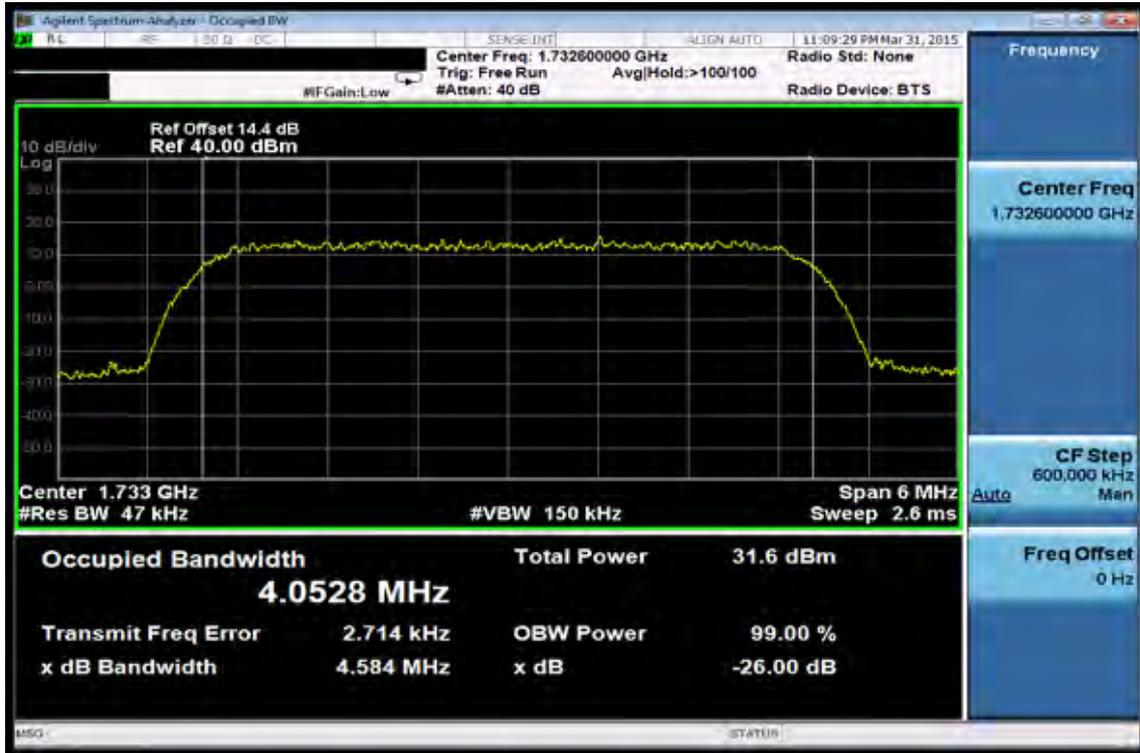
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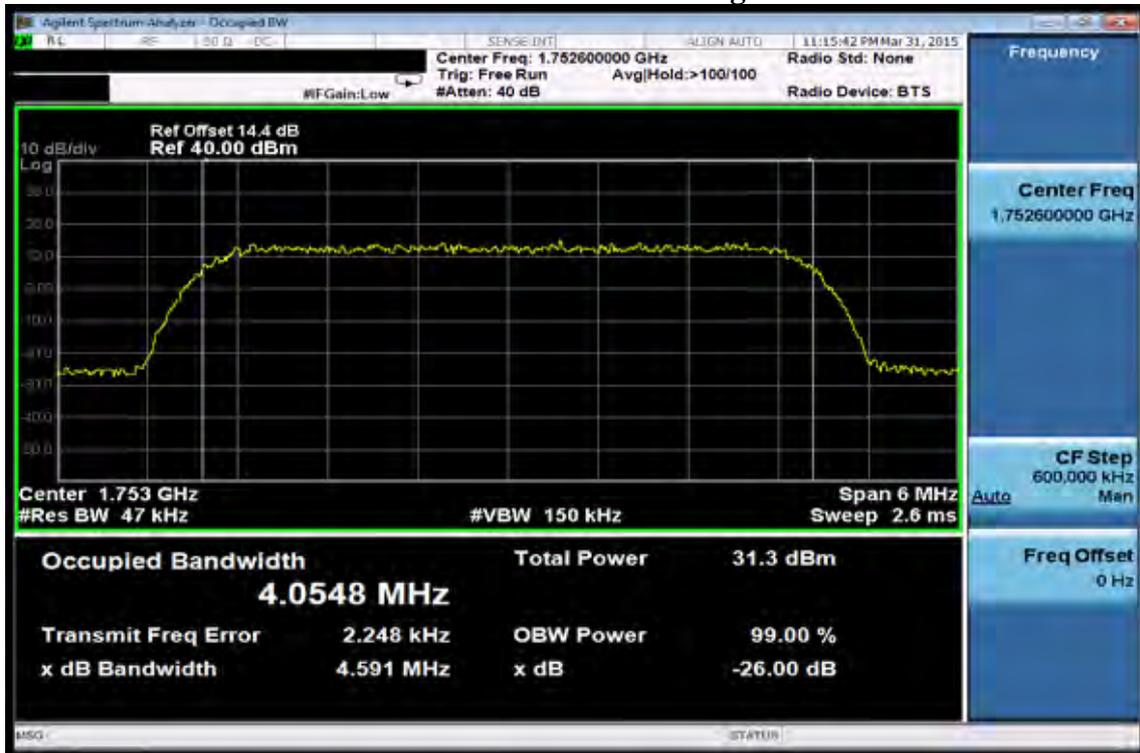
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WCDMA IV Channel Mid



WCDMA IV Channel High



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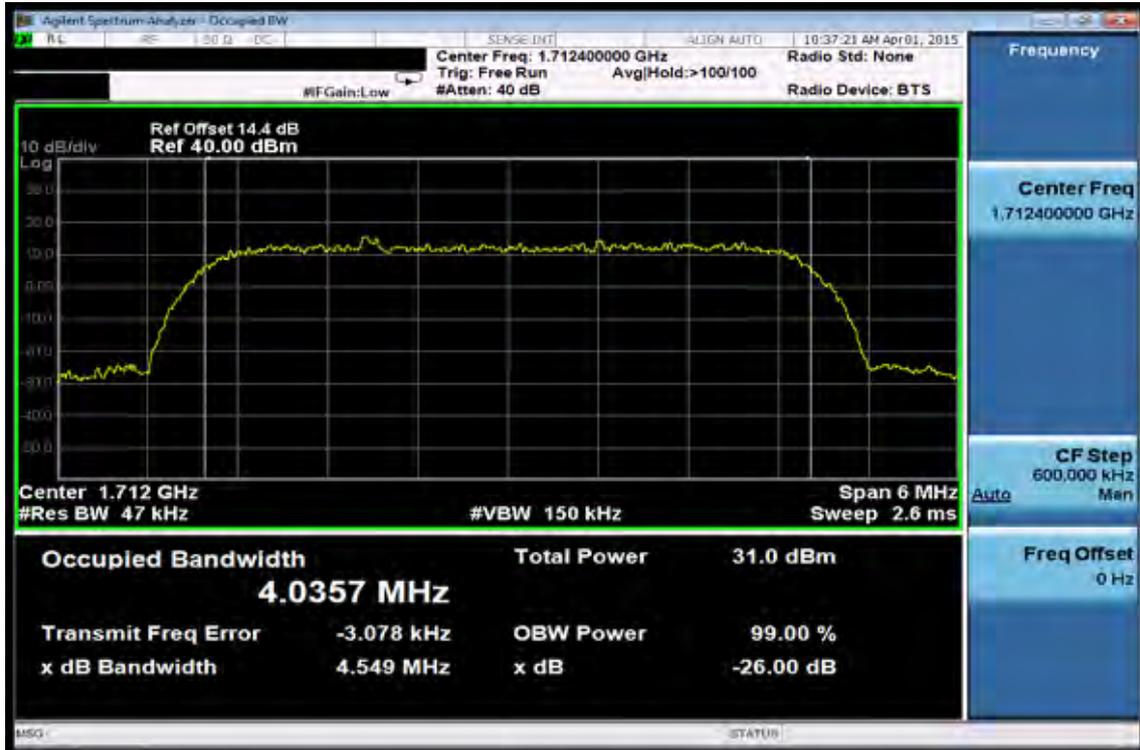
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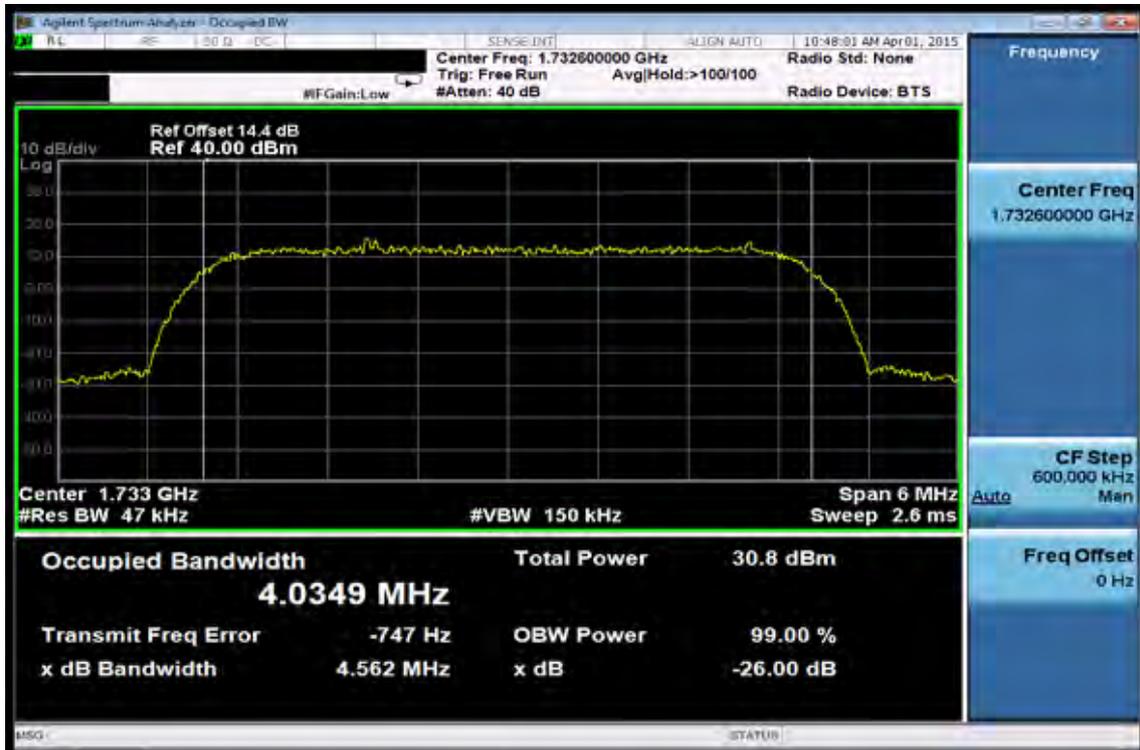
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HSDPA IV Channel Low



HSDPA IV Channel Mid



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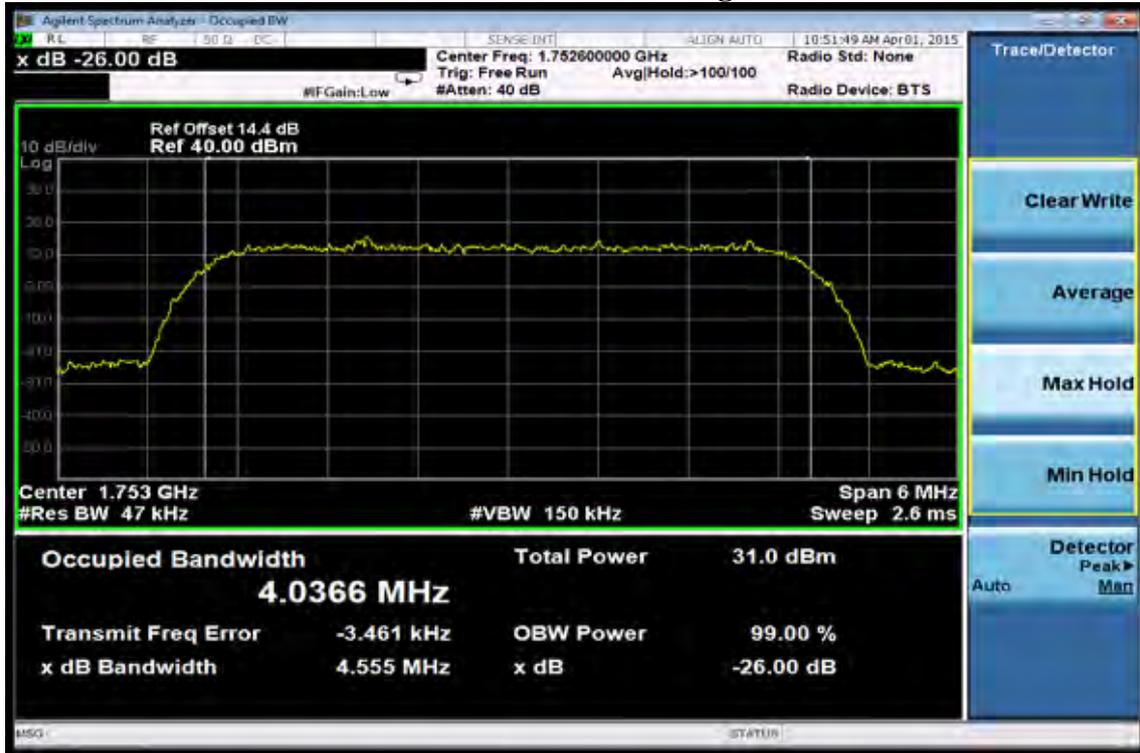
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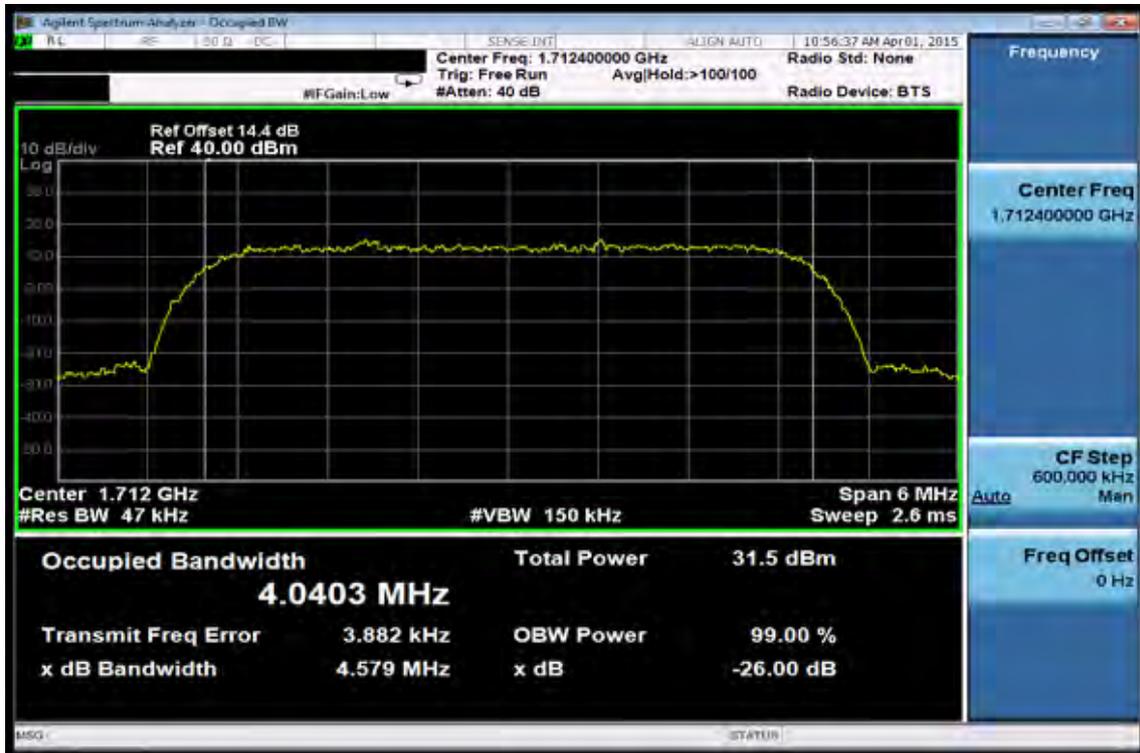
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HSDPA IV Channel High



HSUPA IV Channel Low



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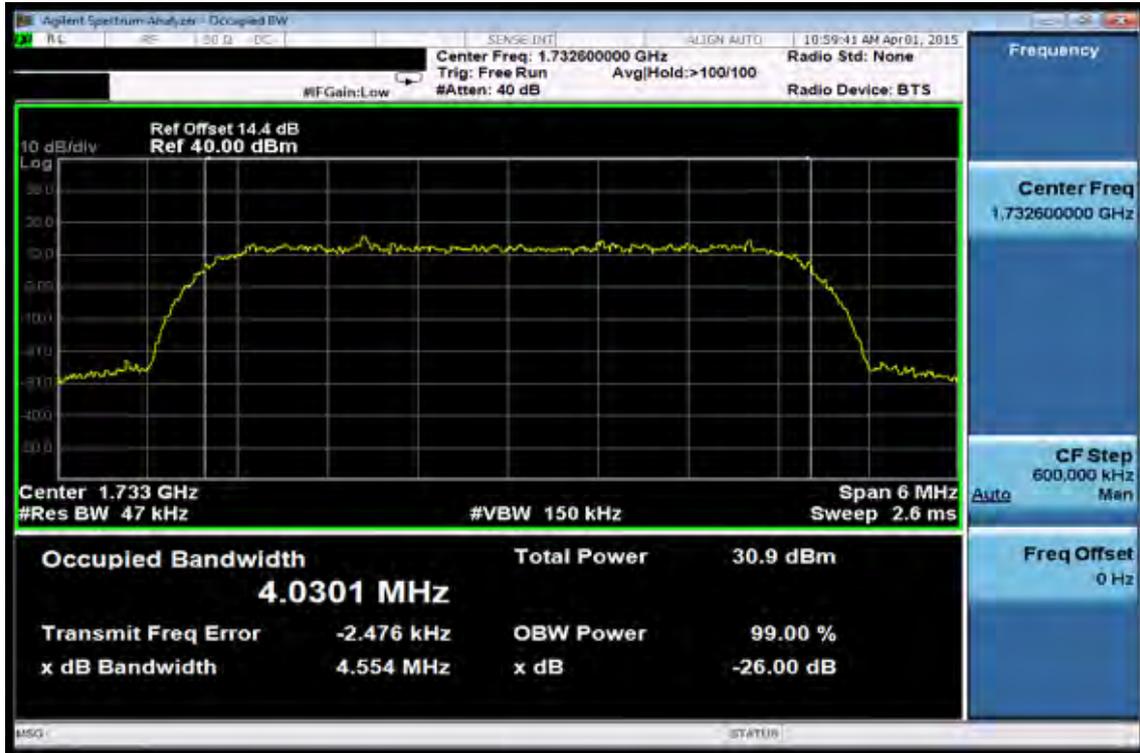
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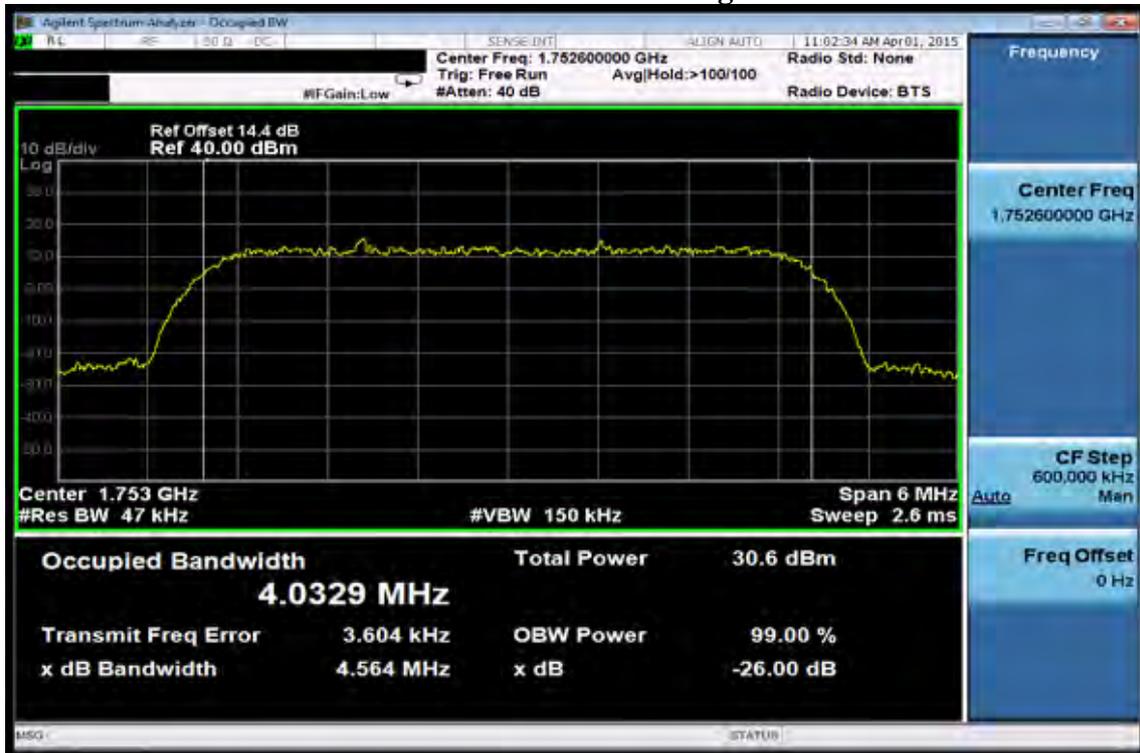
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HSUPA IV Channel Mid



HSUPA IV Channel High



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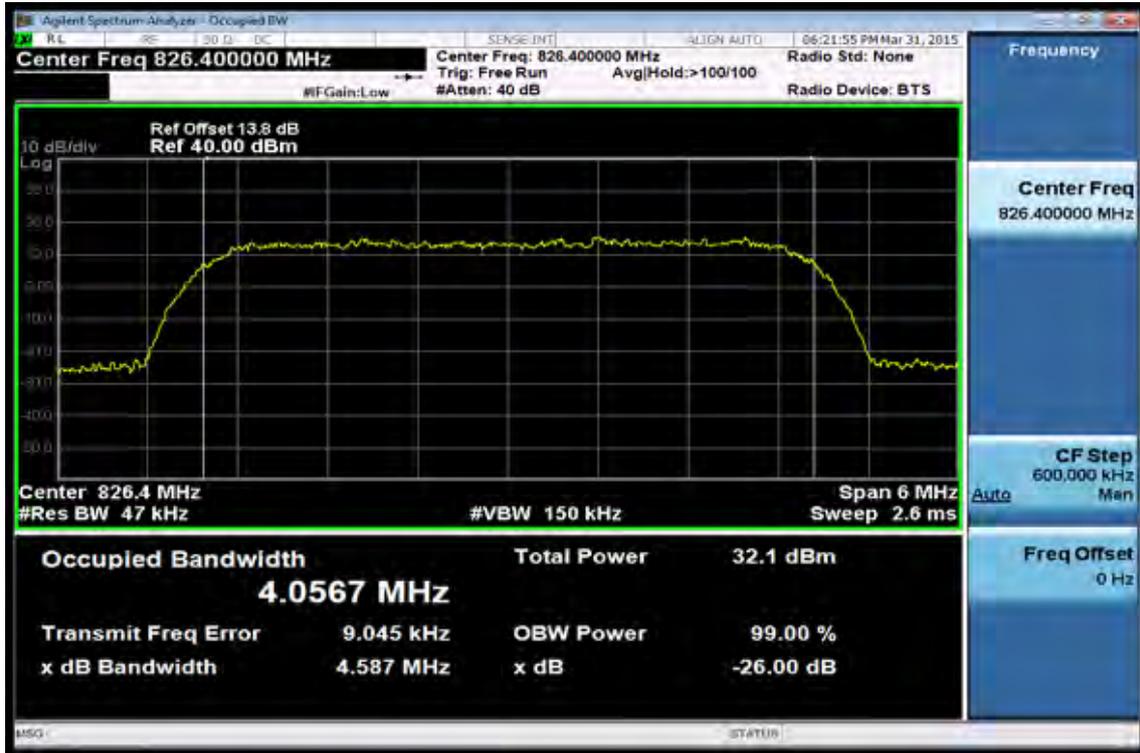
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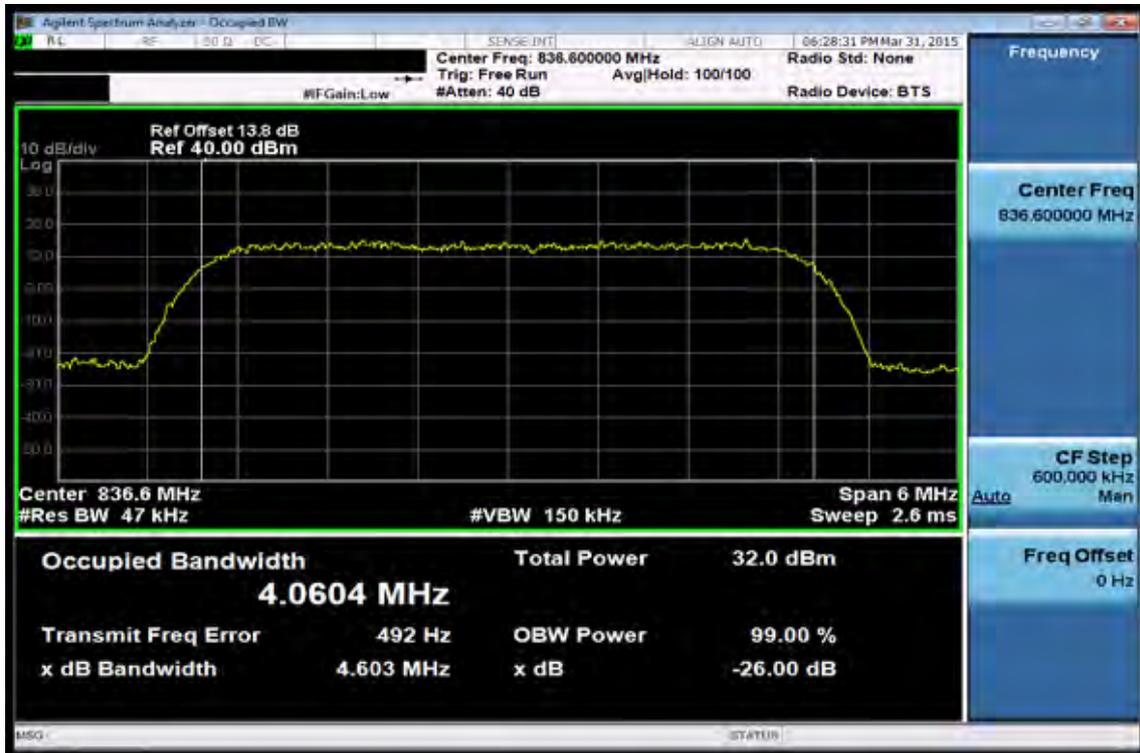
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WCDMA V Channel Low



WCDMA V Channel Mid



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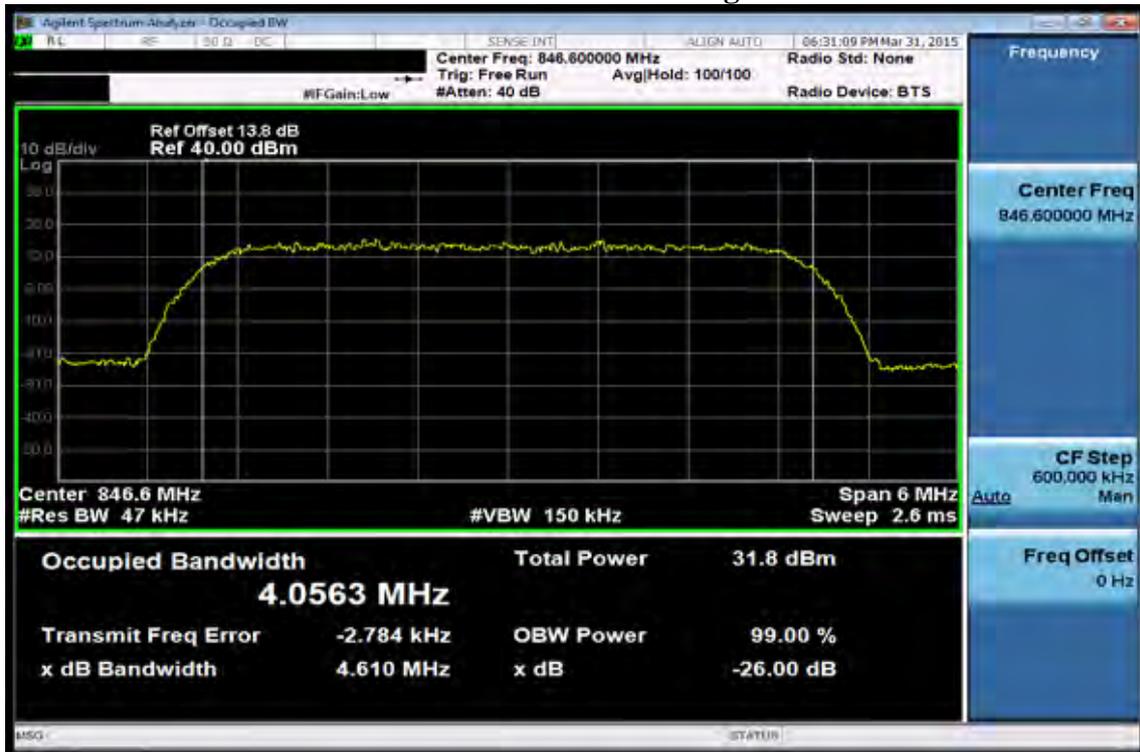
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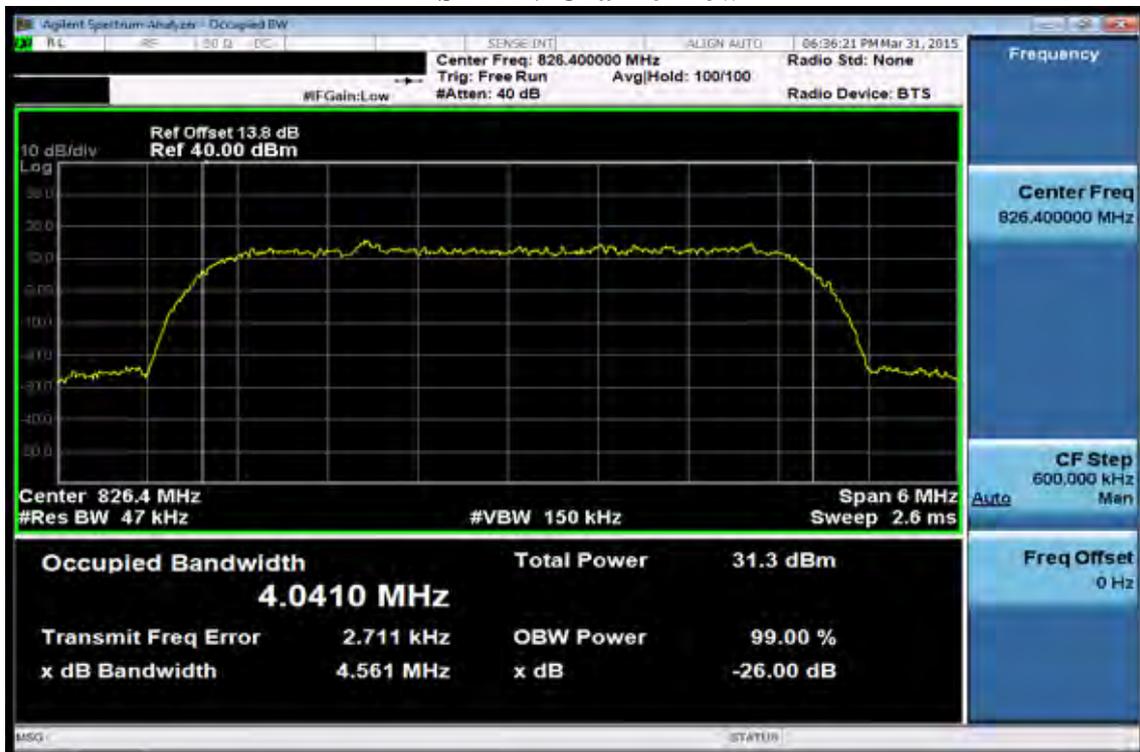
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WCDMA V Channel High



HSDPA V Channel Low



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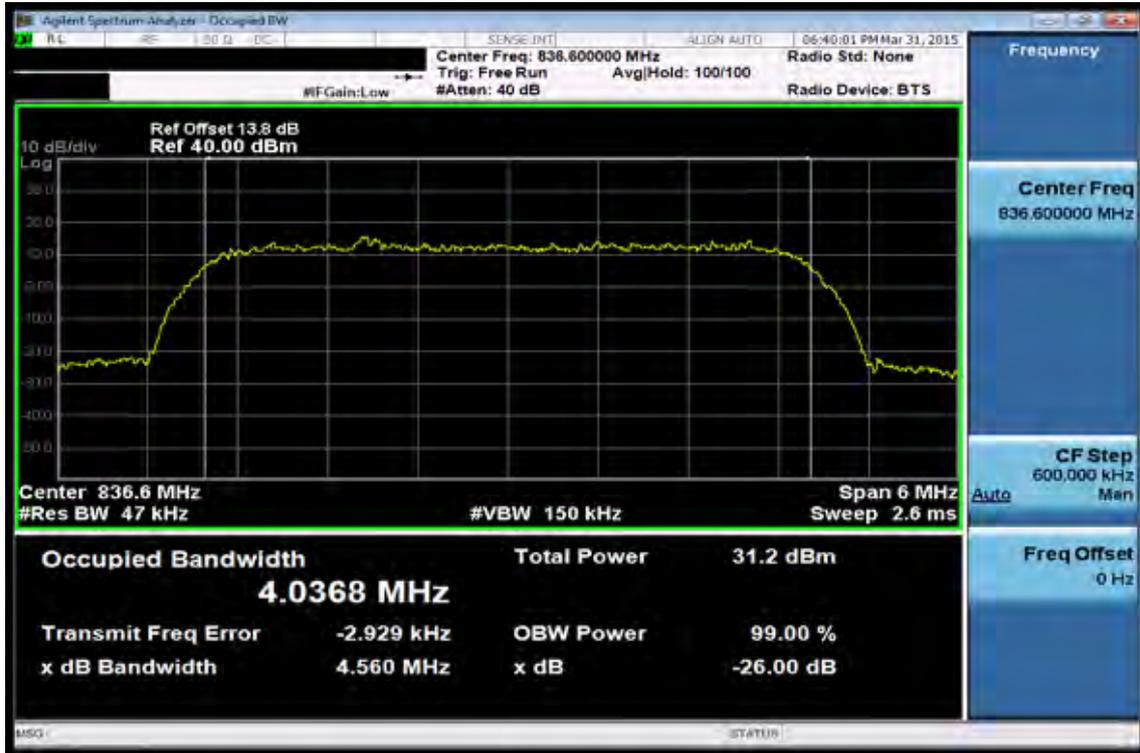
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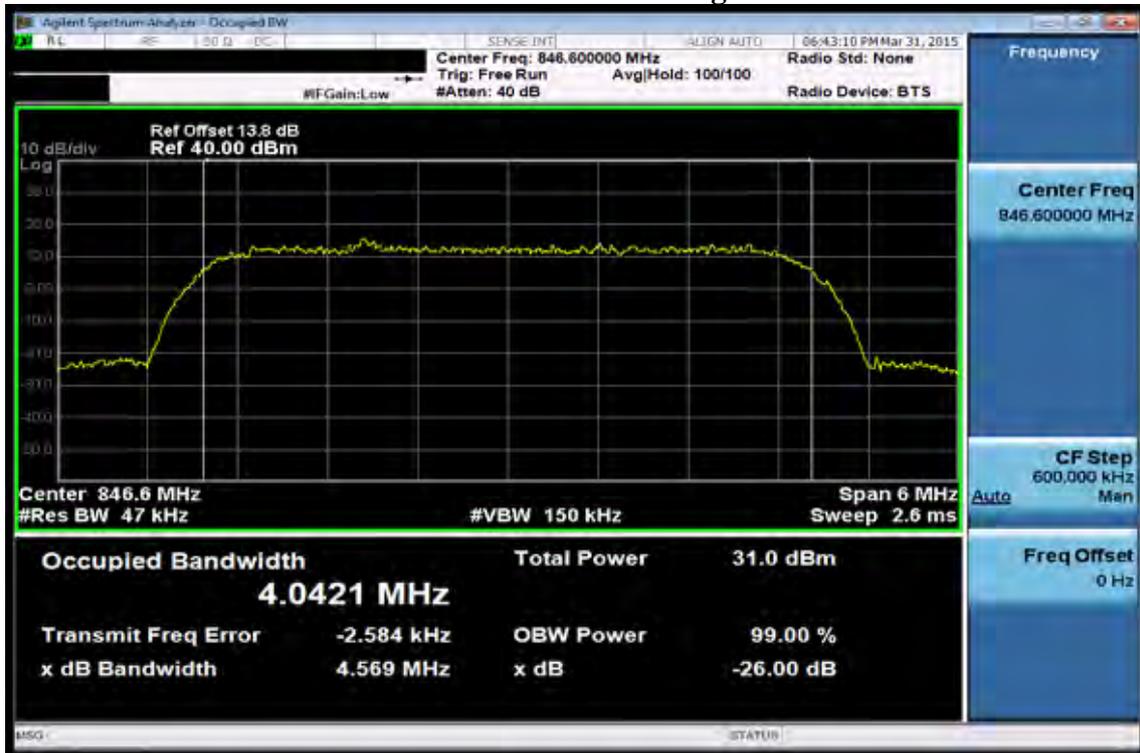
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HSDPA V Channel Mid



HSDPA V Channel High



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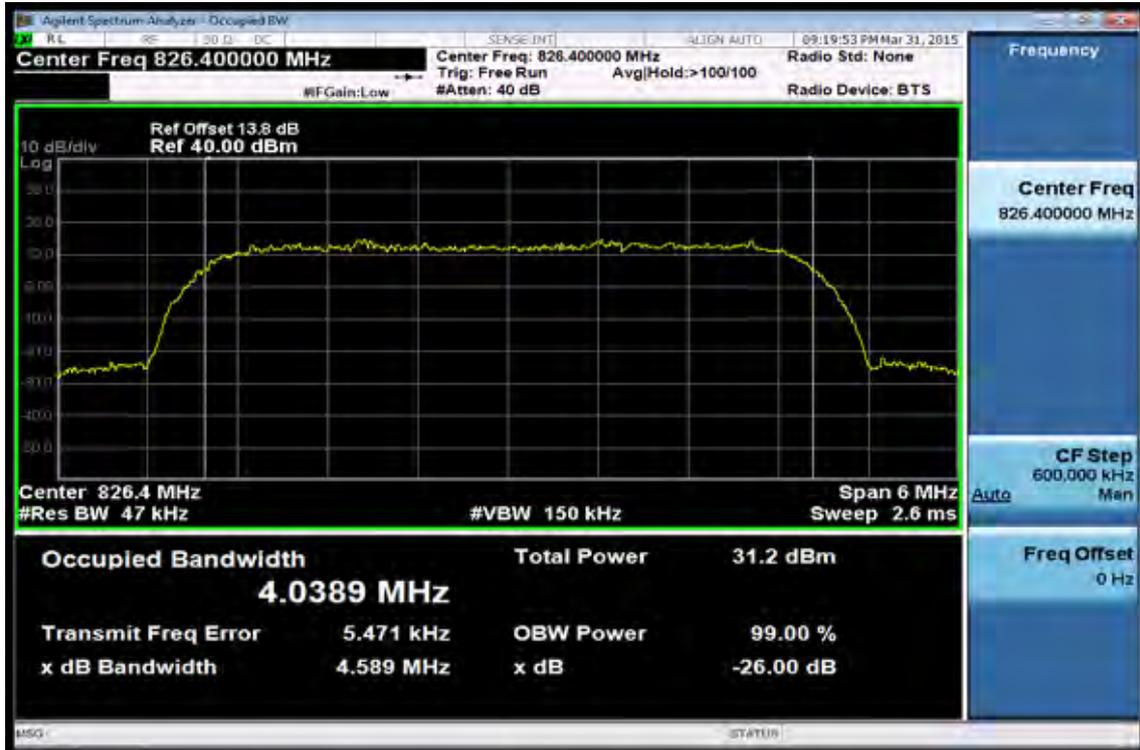
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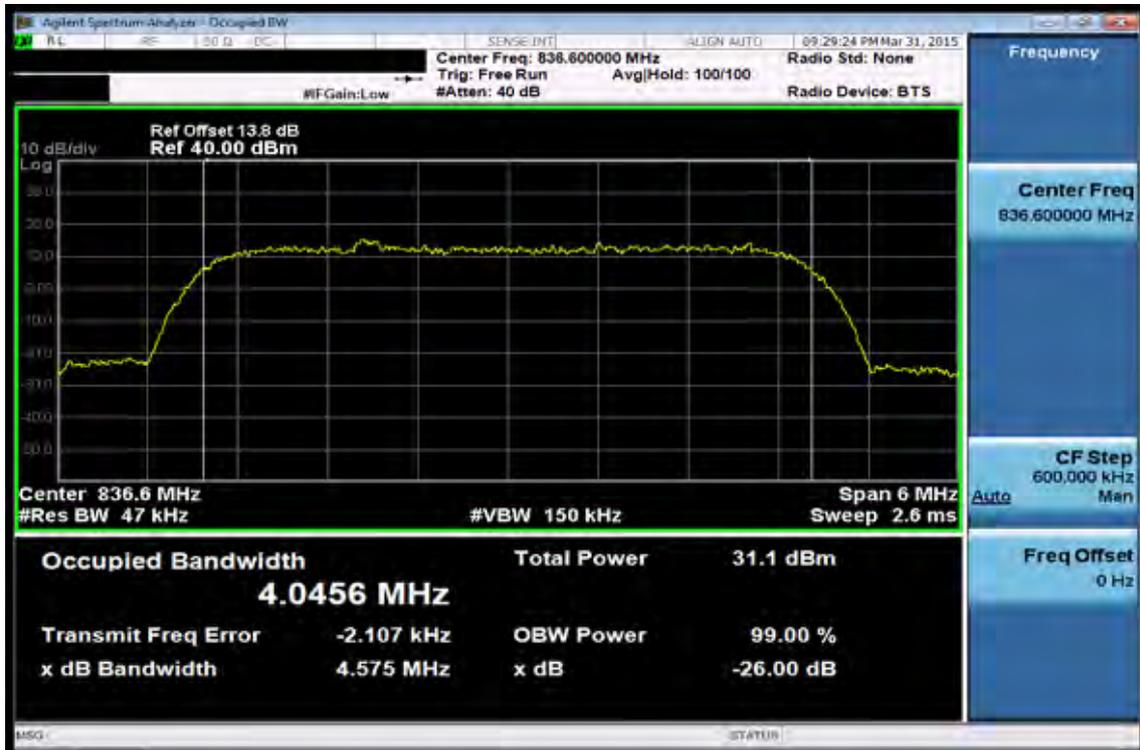
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HSUPA V Channel Low



HSUPA V Channel Mid



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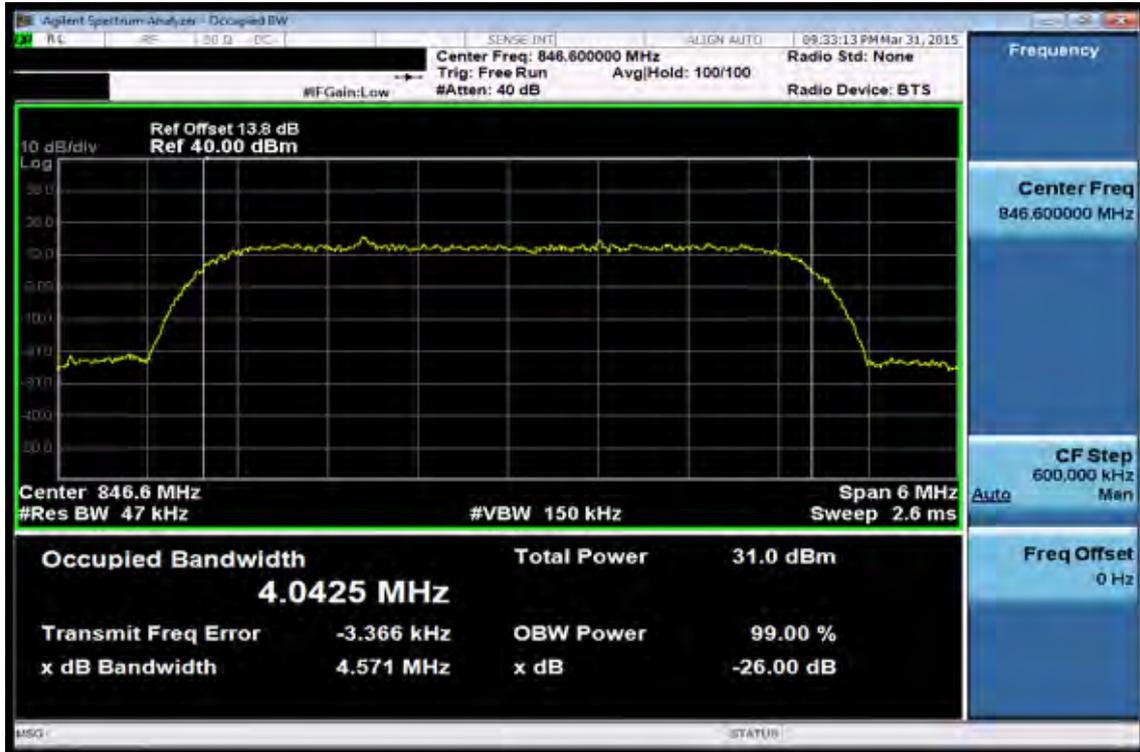
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HSUPA V Channel High



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9. OUT OF BAND EMISSION AT ANTENNA TERMINALS

9.1. Standard Applicable

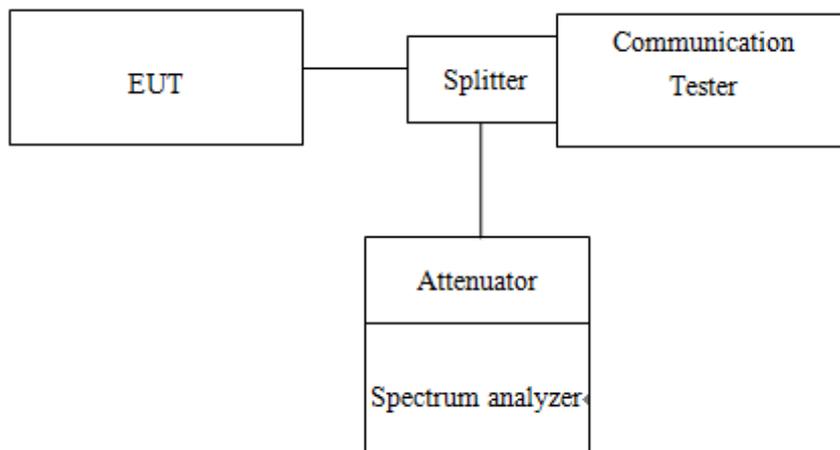
FCC §22.917(a), §24.238(a), §27.53(g)(h) the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than $43 + 10 \log$ (mean output power in watts) dBc below the mean power output outside a license’s frequency block (-13dBm).

Band Edge Measurement:

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.

9.2. Test SET-UP



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9.3. Measurement Procedure

Conducted Emission

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

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

Band Edge

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

9.4. Measurement Equipment Used

Conducted Emission 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	04/23/2014	04/22/2015
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/18/2014	06/17/2015
DC Block	PASTERNAK	PE8210	RF29	12/19/2014	12/18/2015
Splitter	RF-LAMBAD	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	05/31/2014	05/30/2015

9.5. Measurement Result:

Refer to next pages.

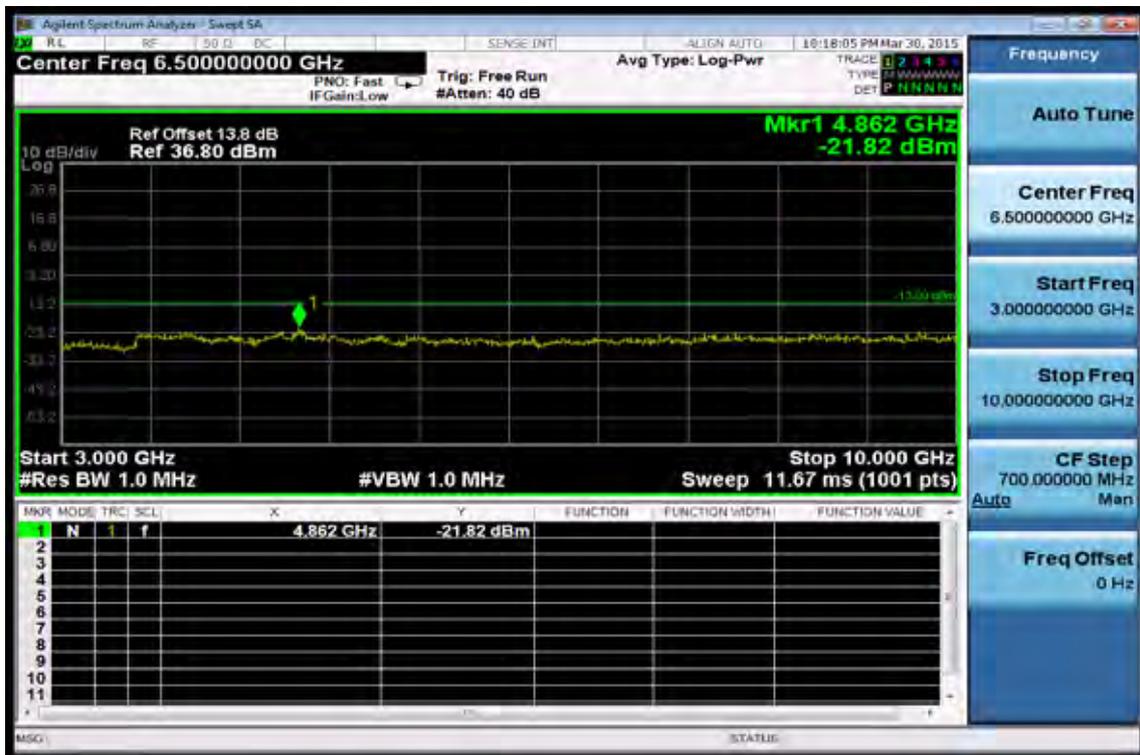
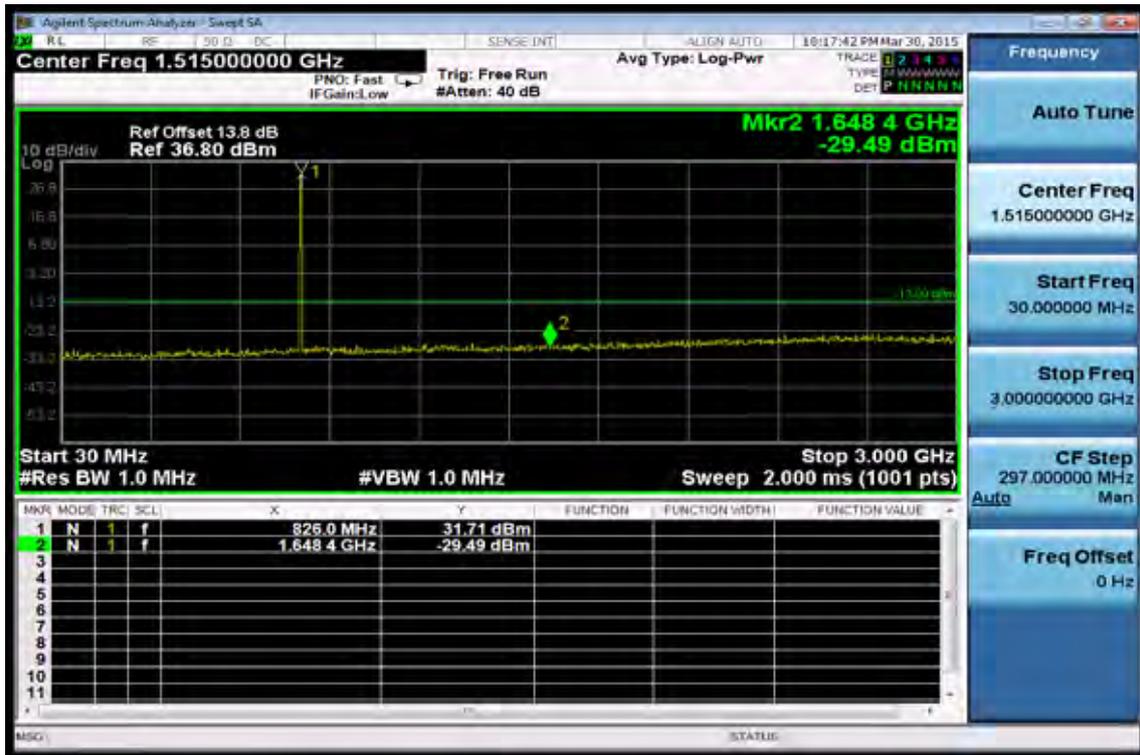
NOTE: The occurrence of the spike on the conducted emission is the signal of the fundamental emission.

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Out of Band emission at antenna terminals – GPRS 850 Channel Lowest



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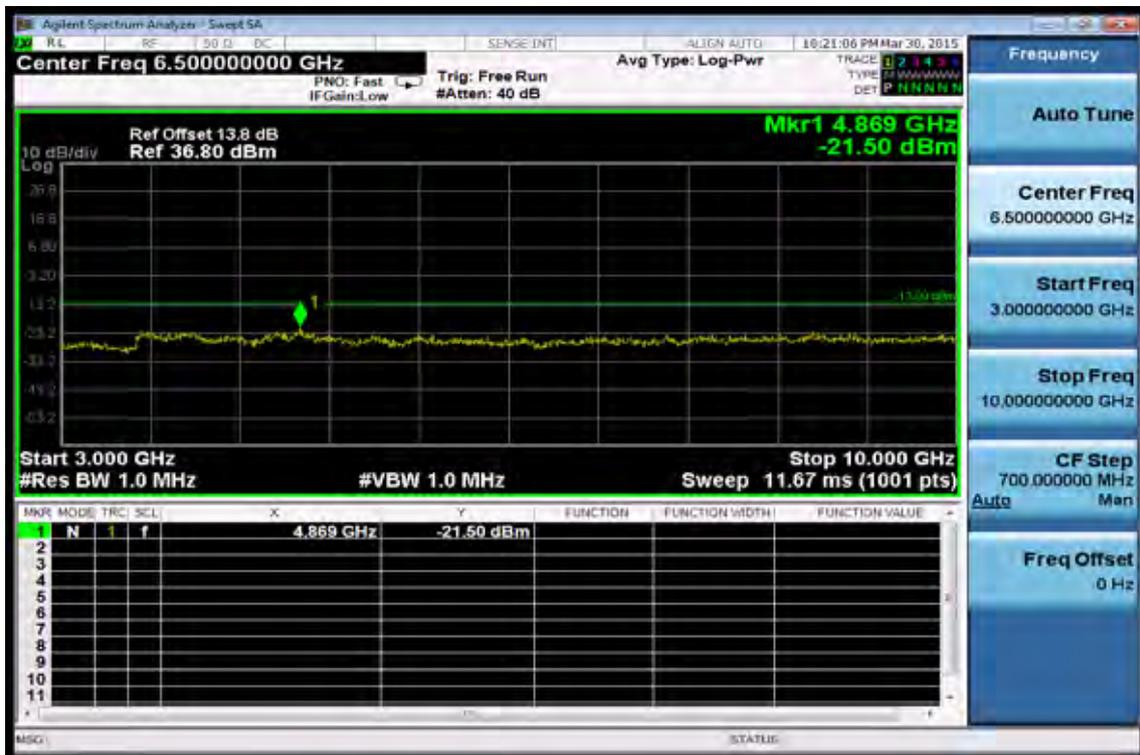
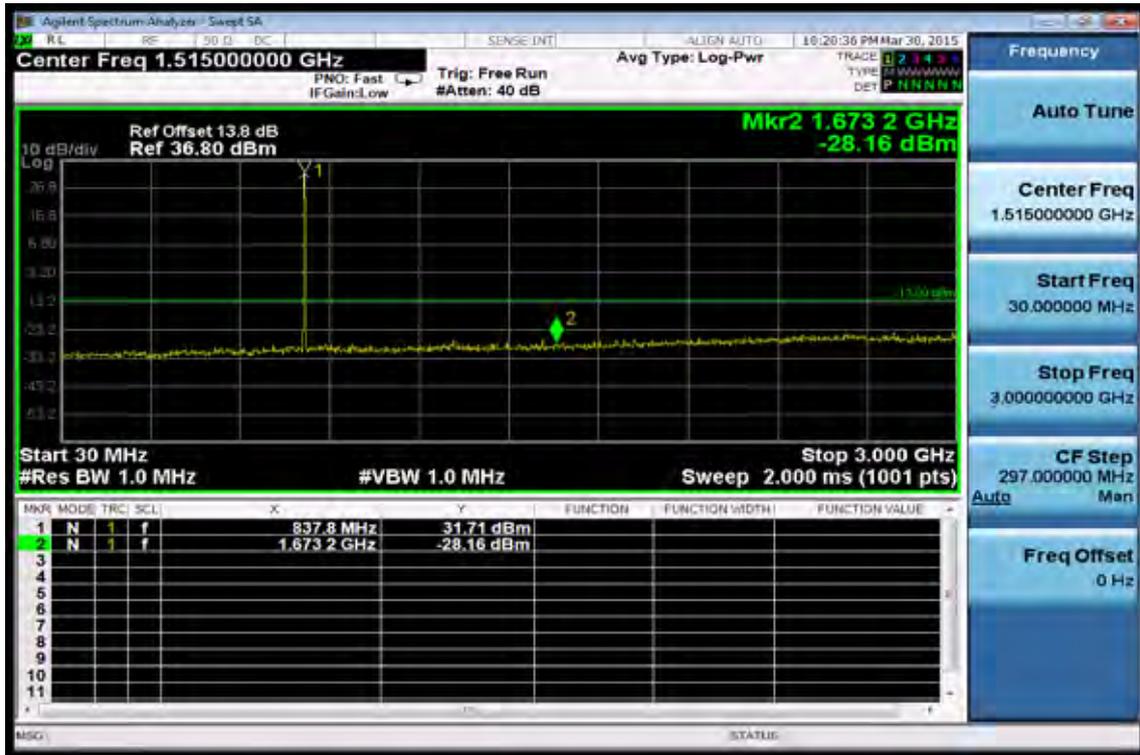
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Out of Band emission at antenna terminals – GPRS 850 Channel Mid



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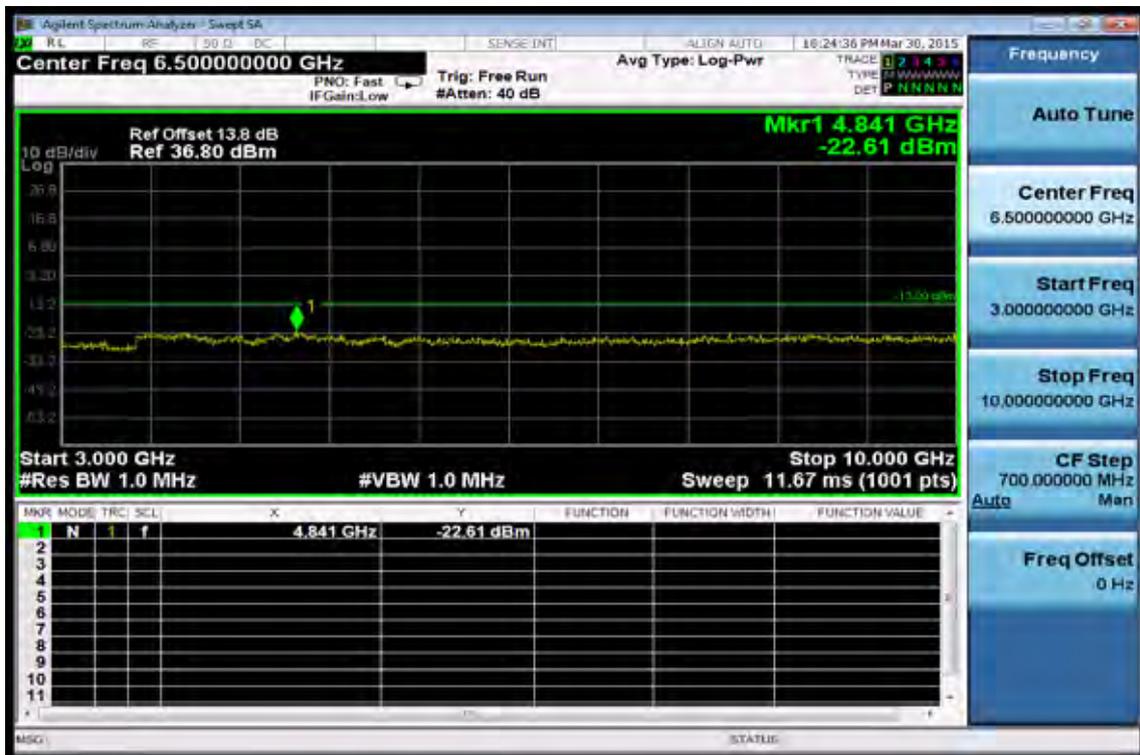
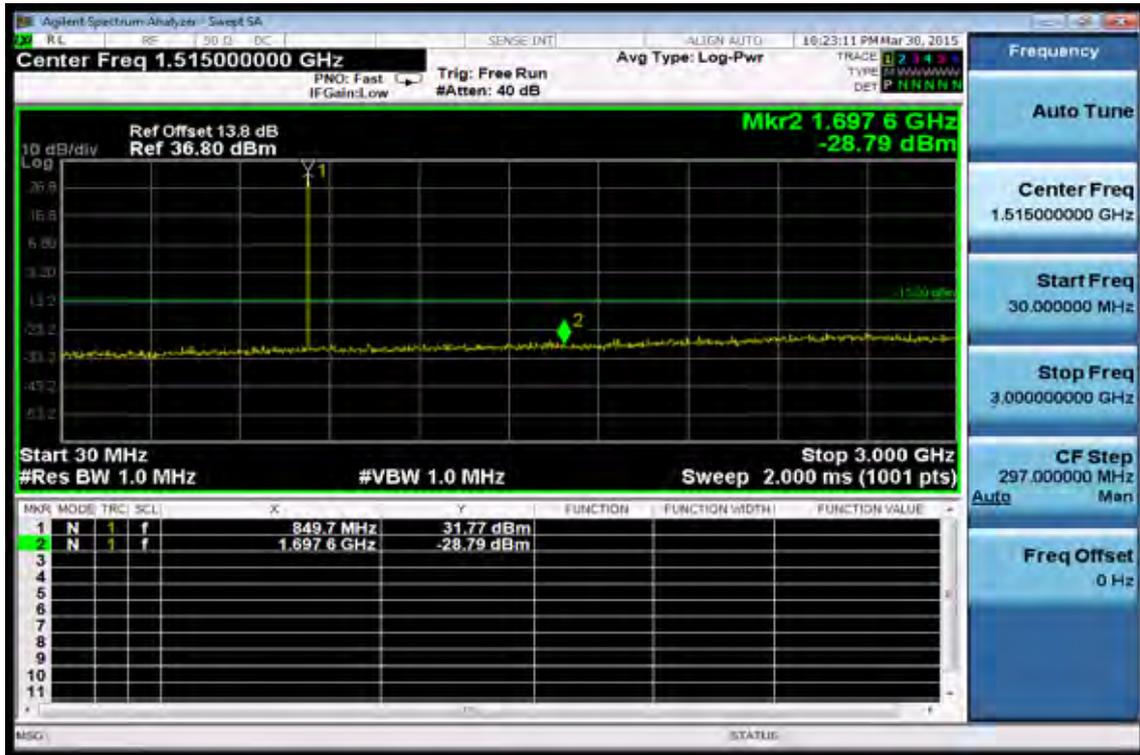
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Out of Band emission at antenna terminals – GPRS 850 Channel Highest



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Band edge emission at antenna terminals – GPRS 850 Channel Lowest



Band edge emission at antenna terminals – GPRS 850 Channel Highest



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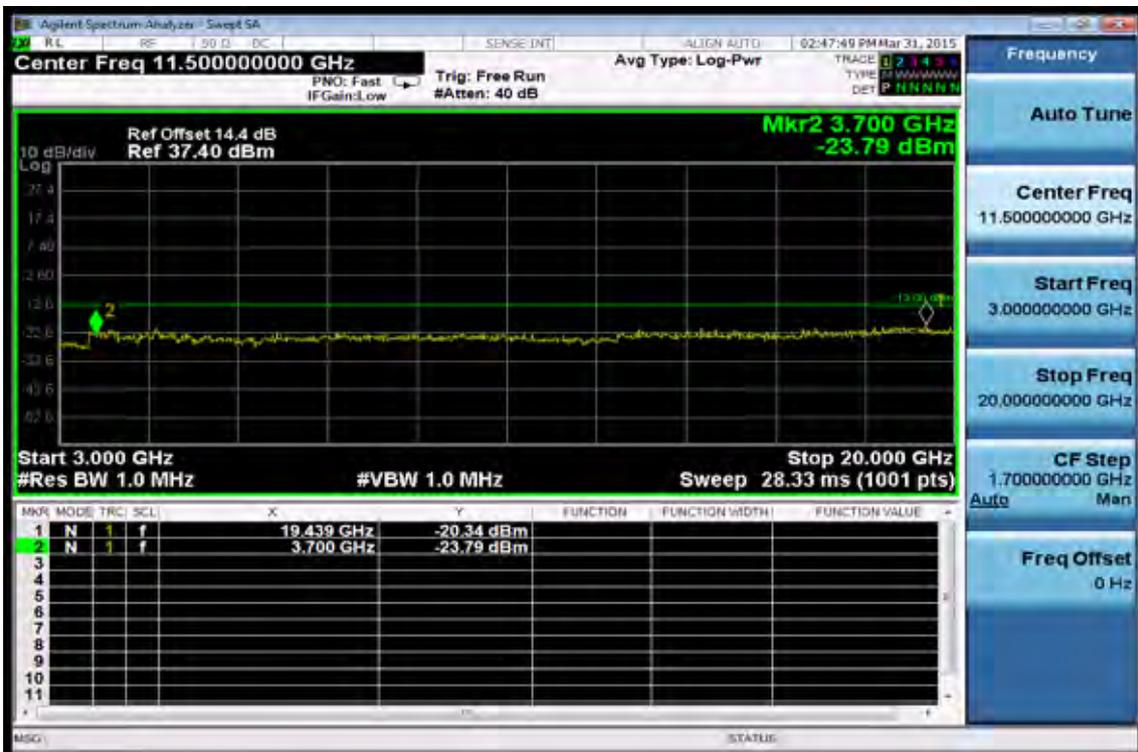
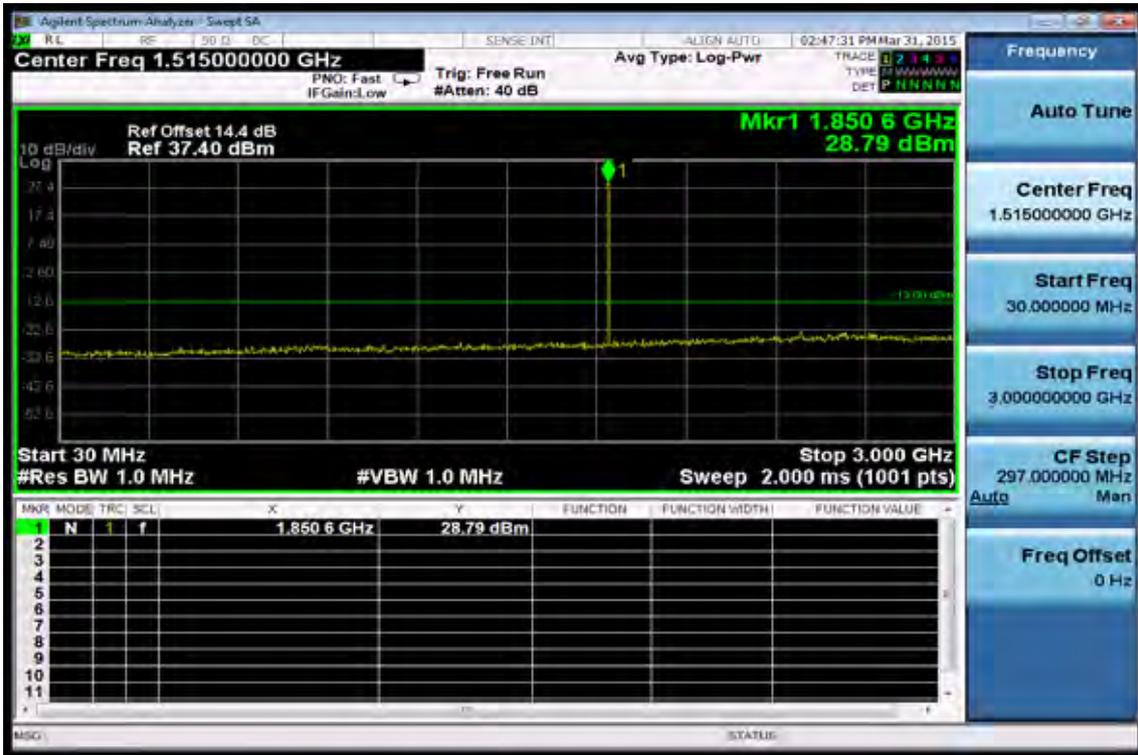
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Out of Band emission at antenna terminals – GPRS 1900 Channel Lowest



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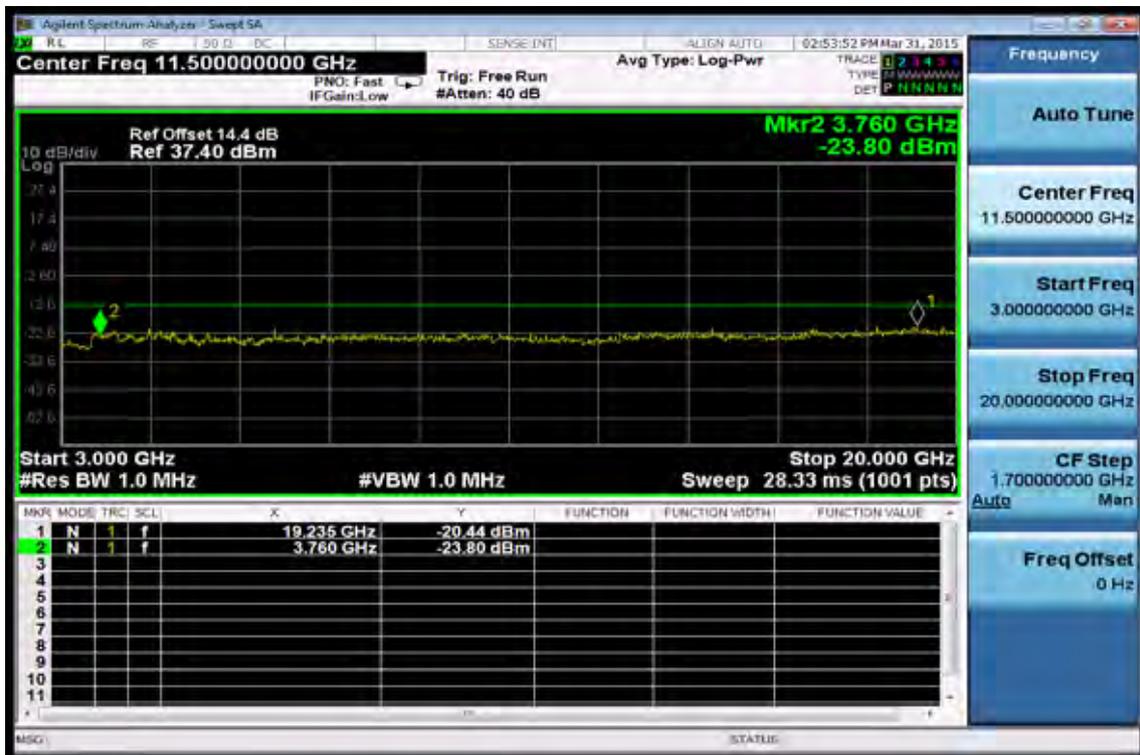
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Out of Band emission at antenna terminals – GPRS 1900 Channel Mid



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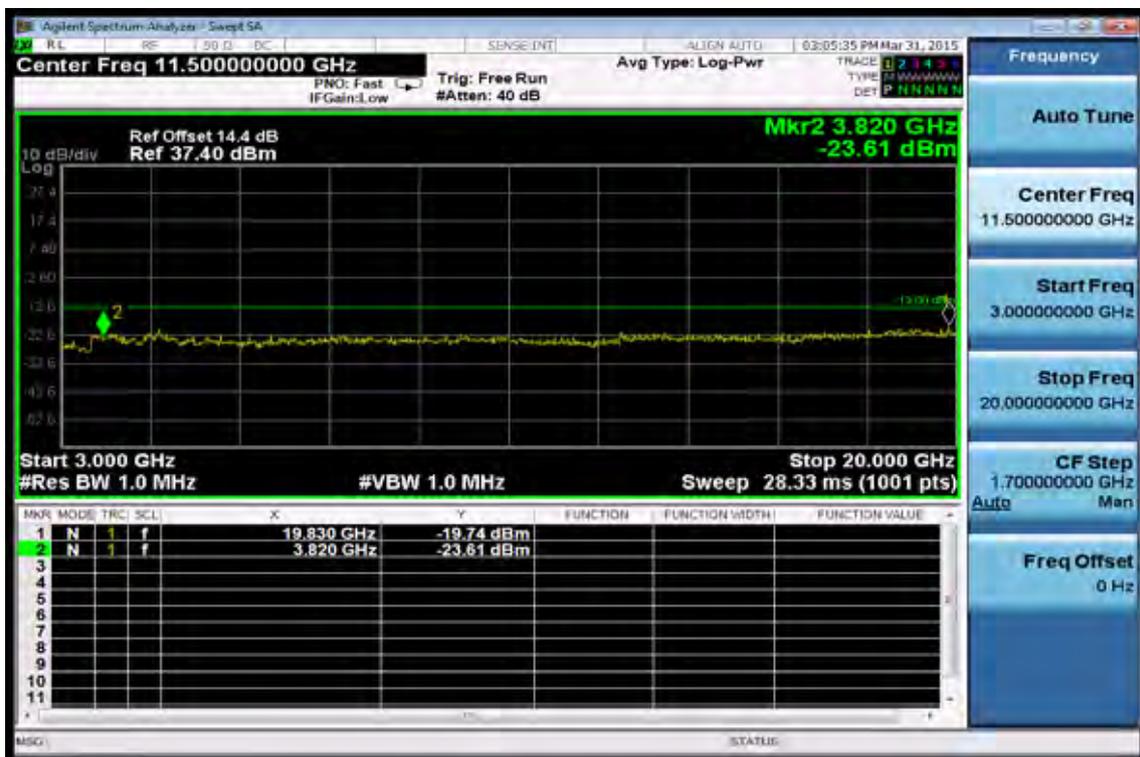
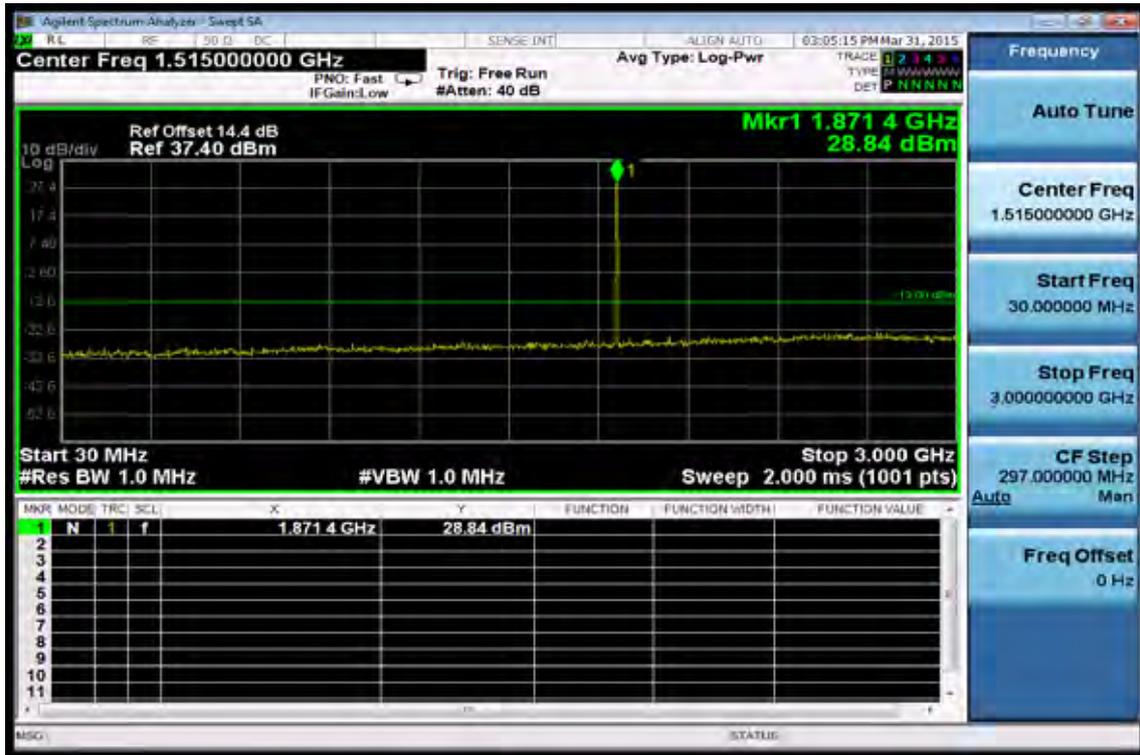
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Out of Band emission at antenna terminals – GPRS 1900 Channel Highest



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Band edge emission at antenna terminals – GPRS 1900 Channel Lowest



Band edge emission at antenna terminals – GPRS 1900 Channel Highest



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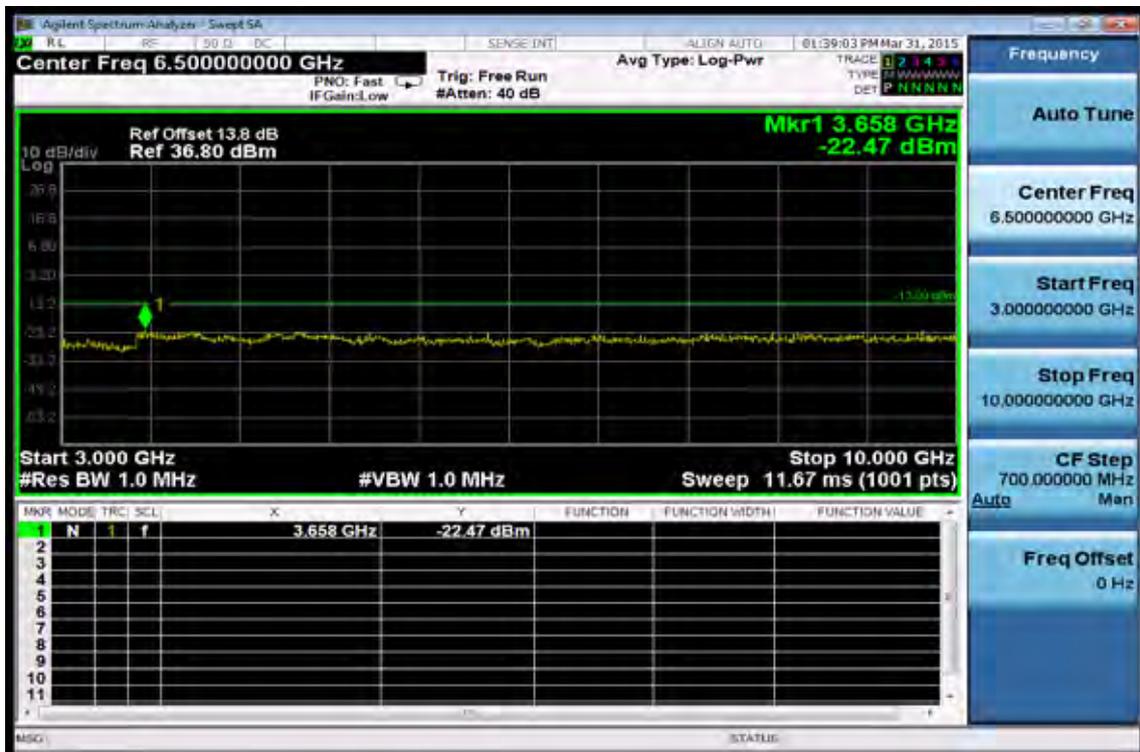
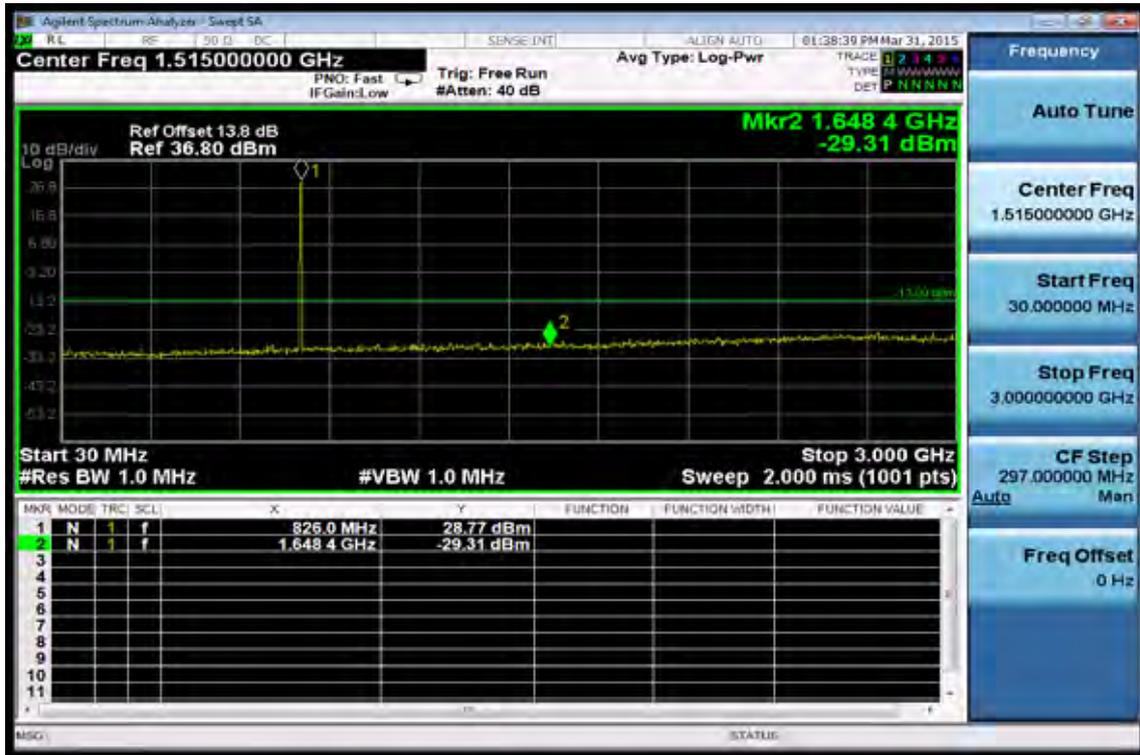
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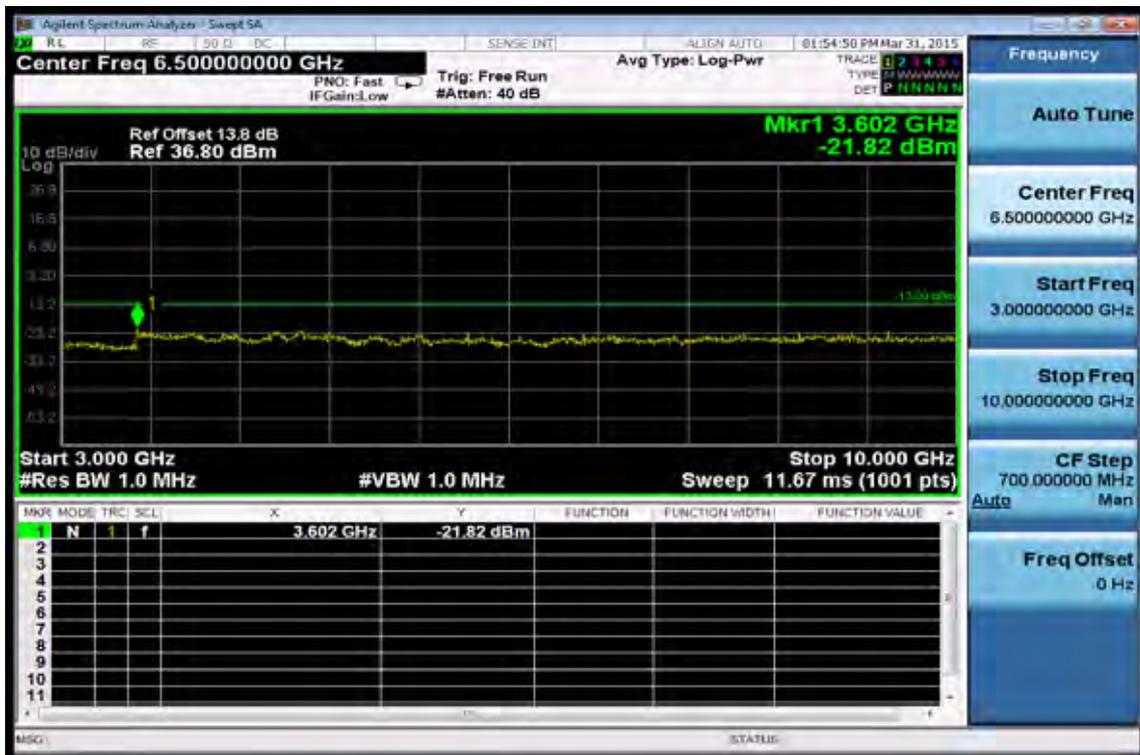
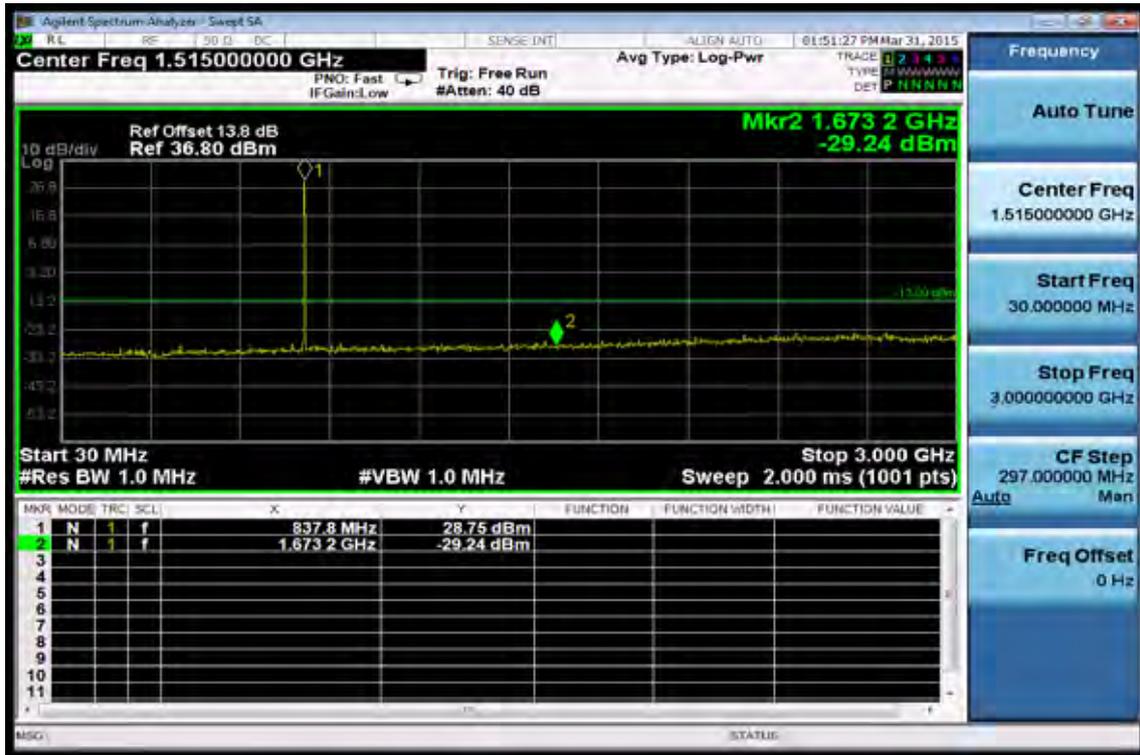
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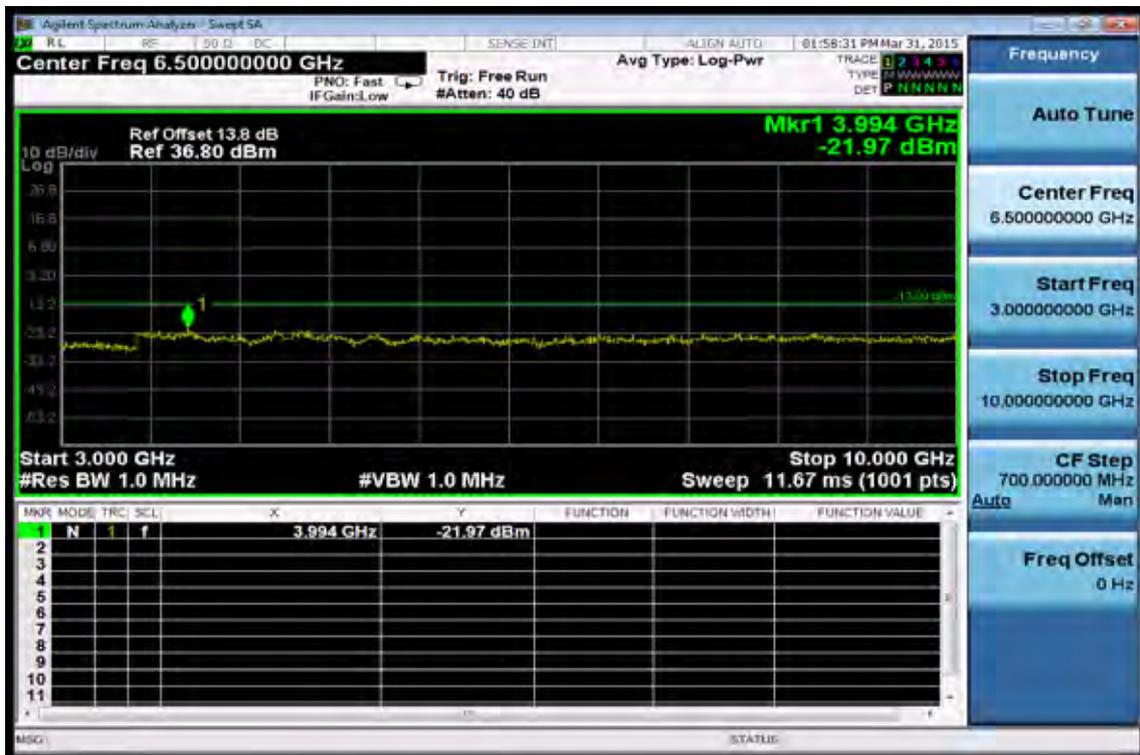
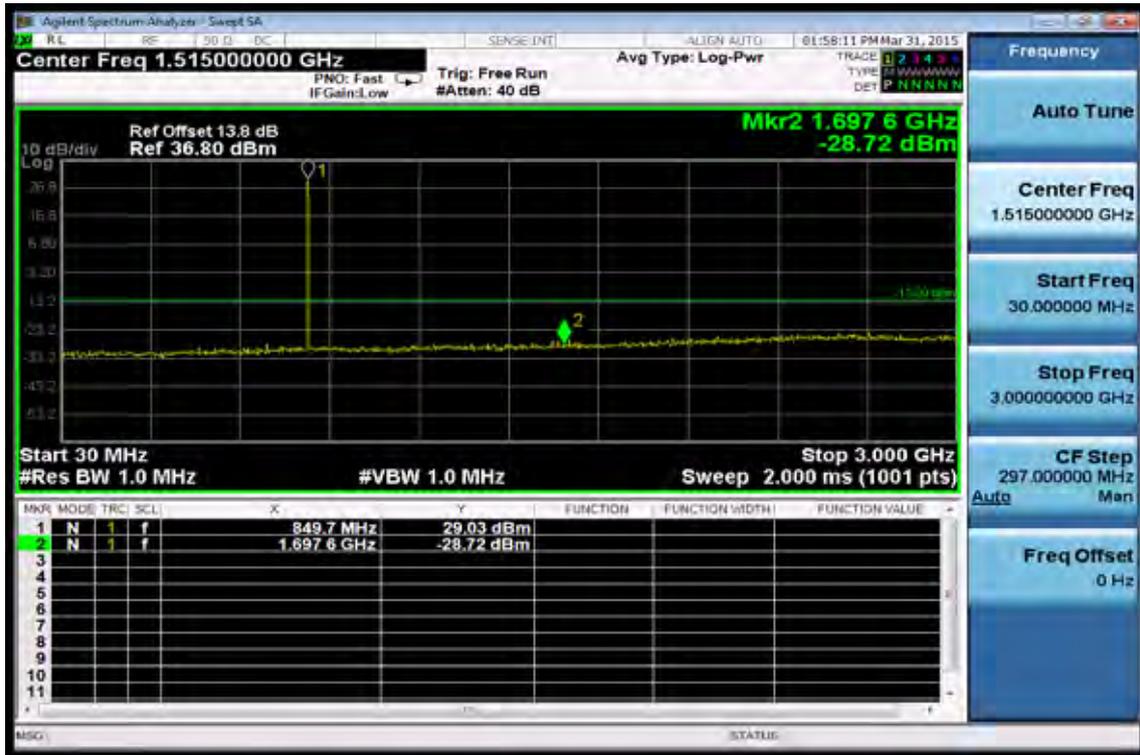
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Band edge emission at antenna terminals – EDGE 850 Channel Highest



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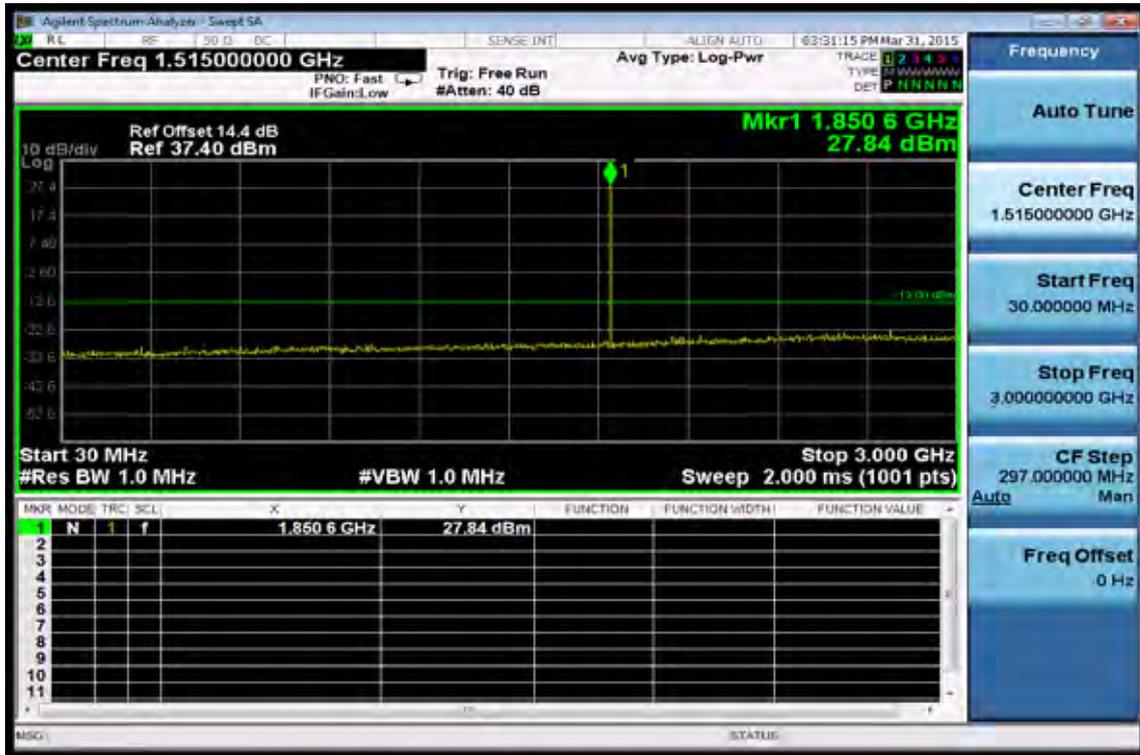
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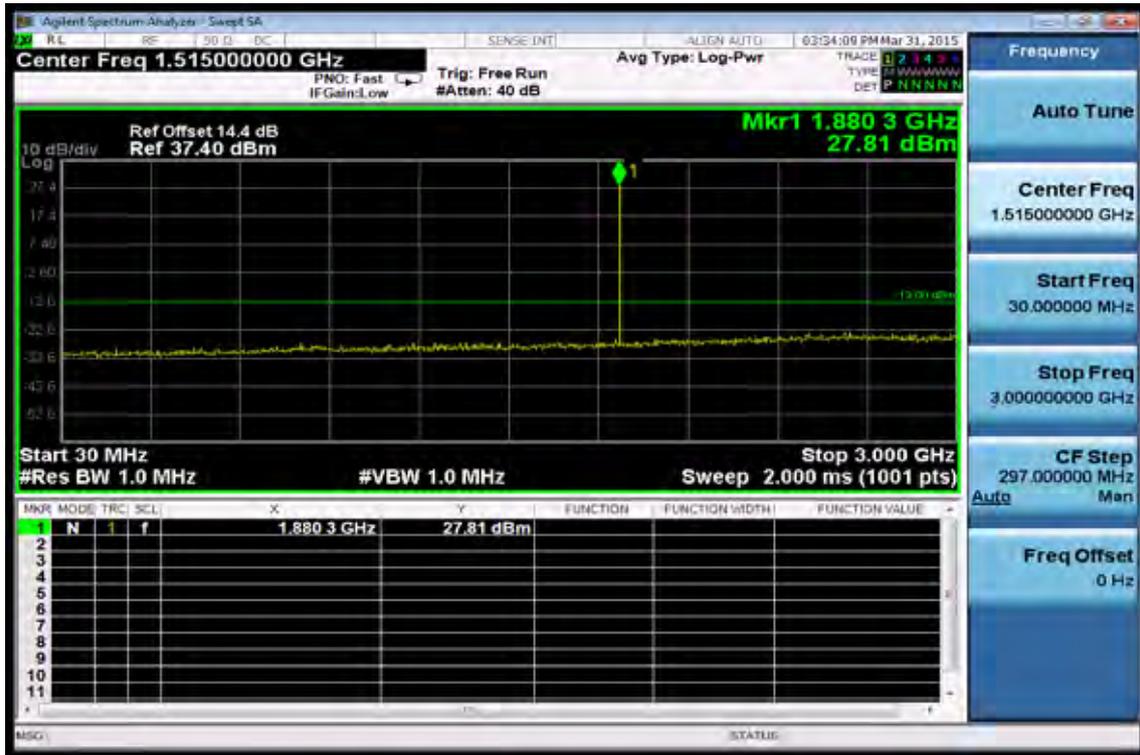
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Out of Band emission at antenna terminals – EDGE 1900 Channel Mid



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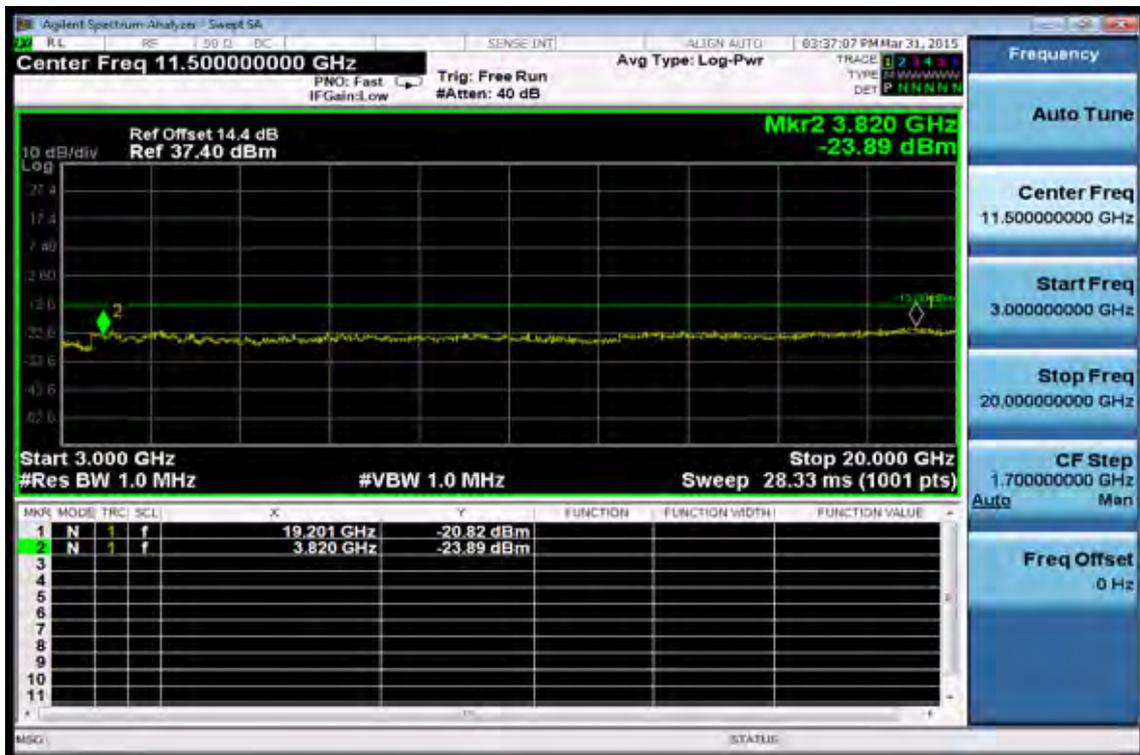
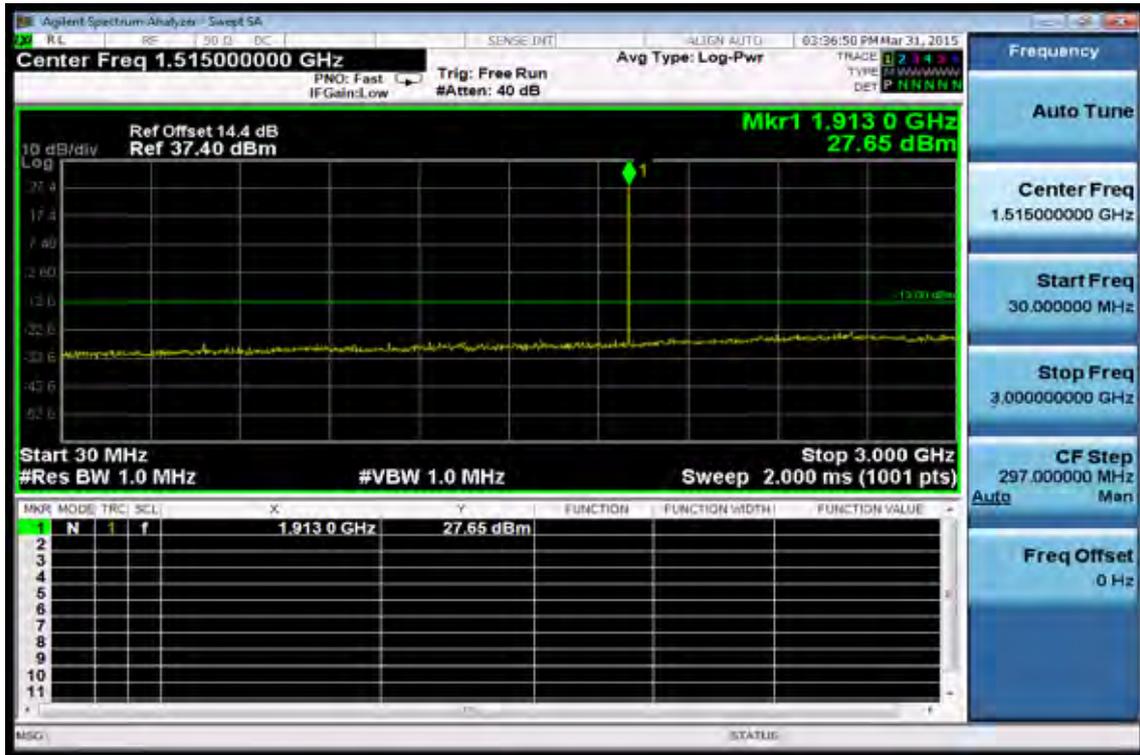
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Out of Band emission at antenna terminals – EDGE 1900 Channel Highest



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Band edge emission at antenna terminals – EDGE 1900 Channel Lowest



Band edge emission at antenna terminals – EDGE 1900 Channel Highest



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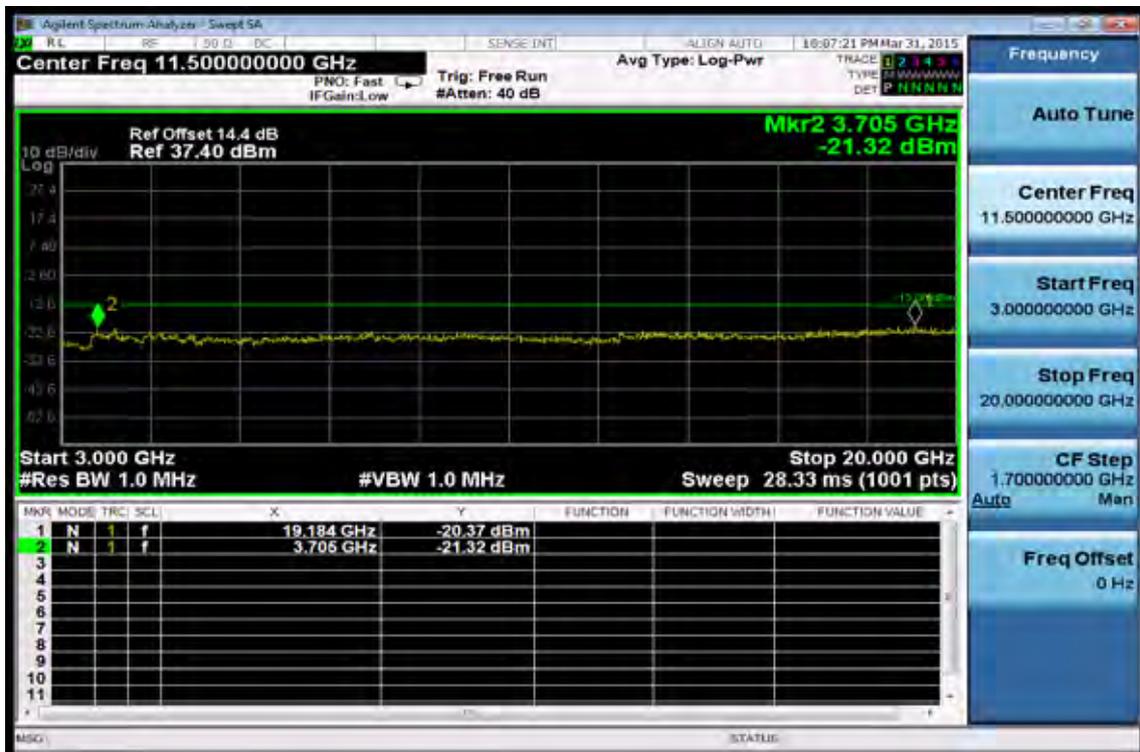
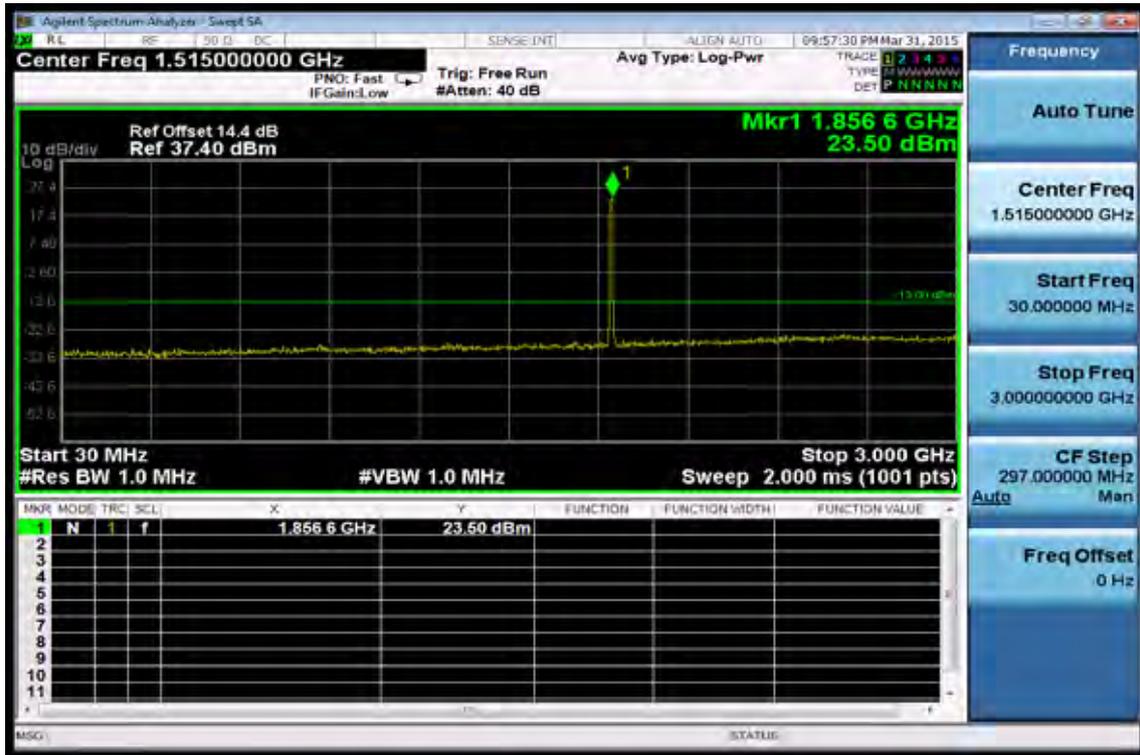
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Out of Band emission at antenna terminals – WCDMA II Channel Lowest



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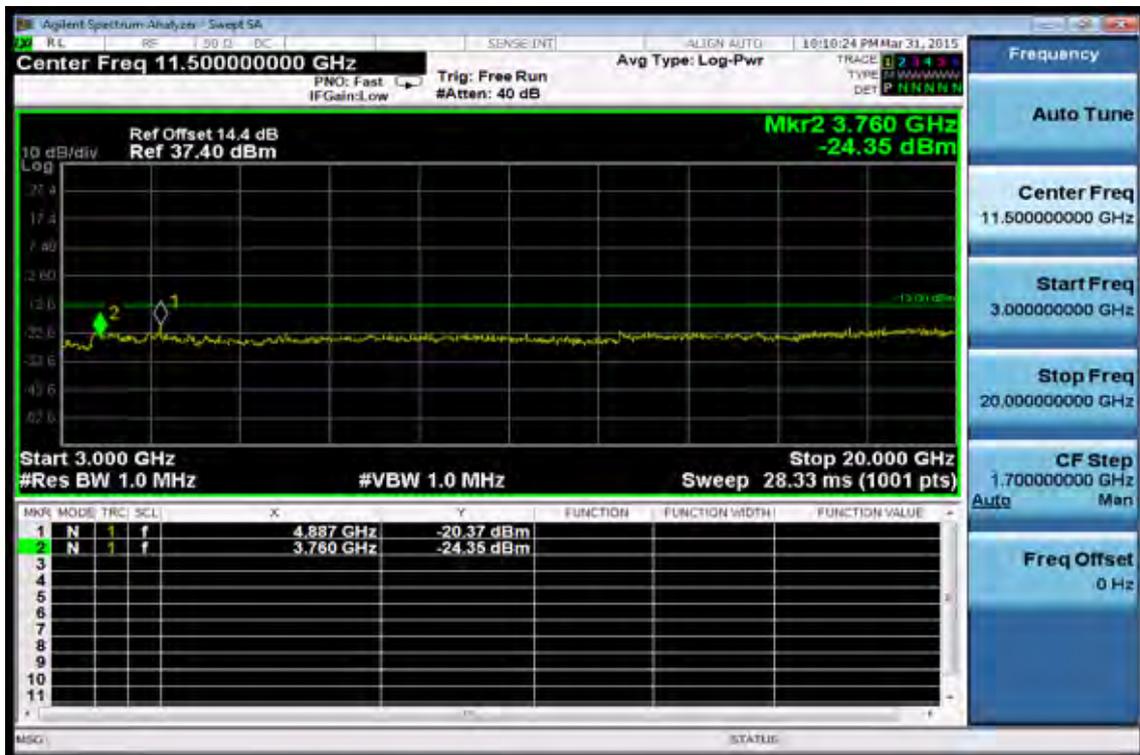
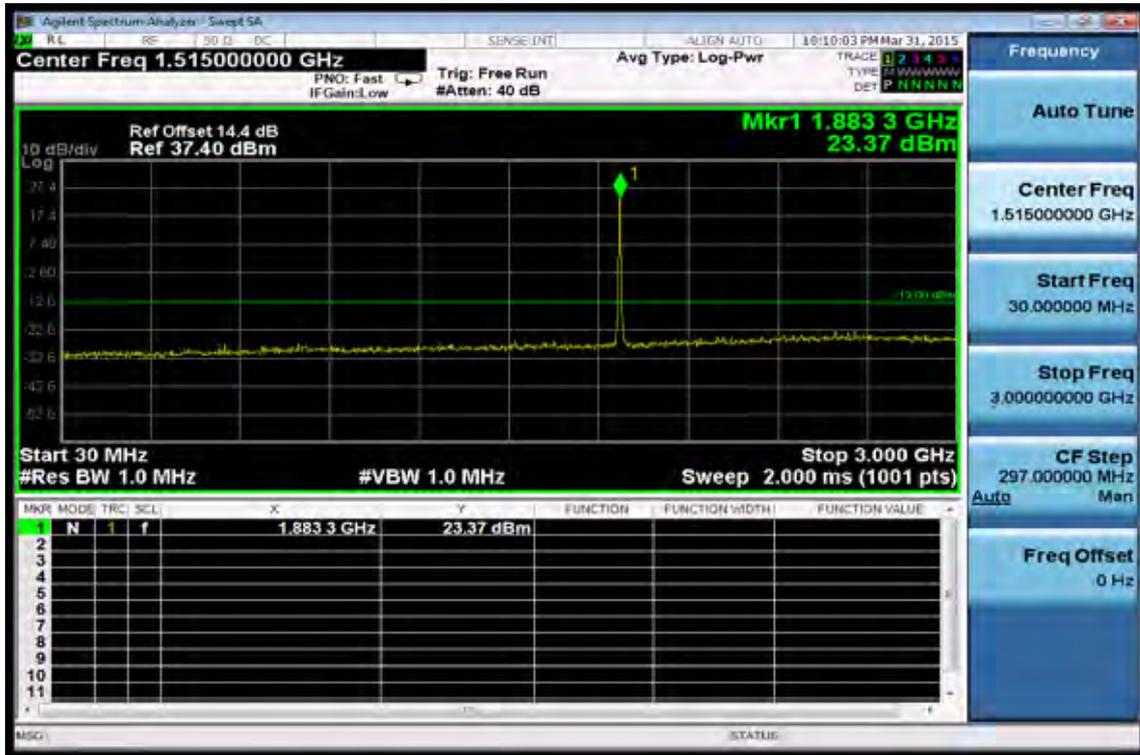
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Out of Band emission at antenna terminals – WCDMA II Channel Mid



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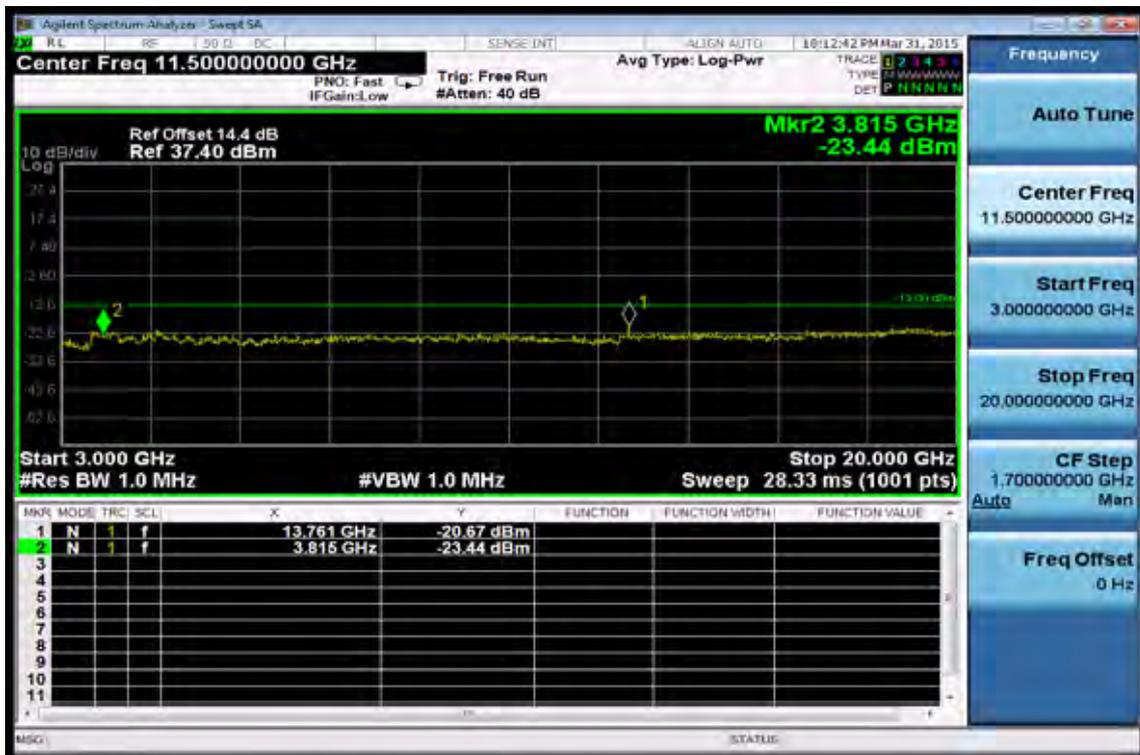
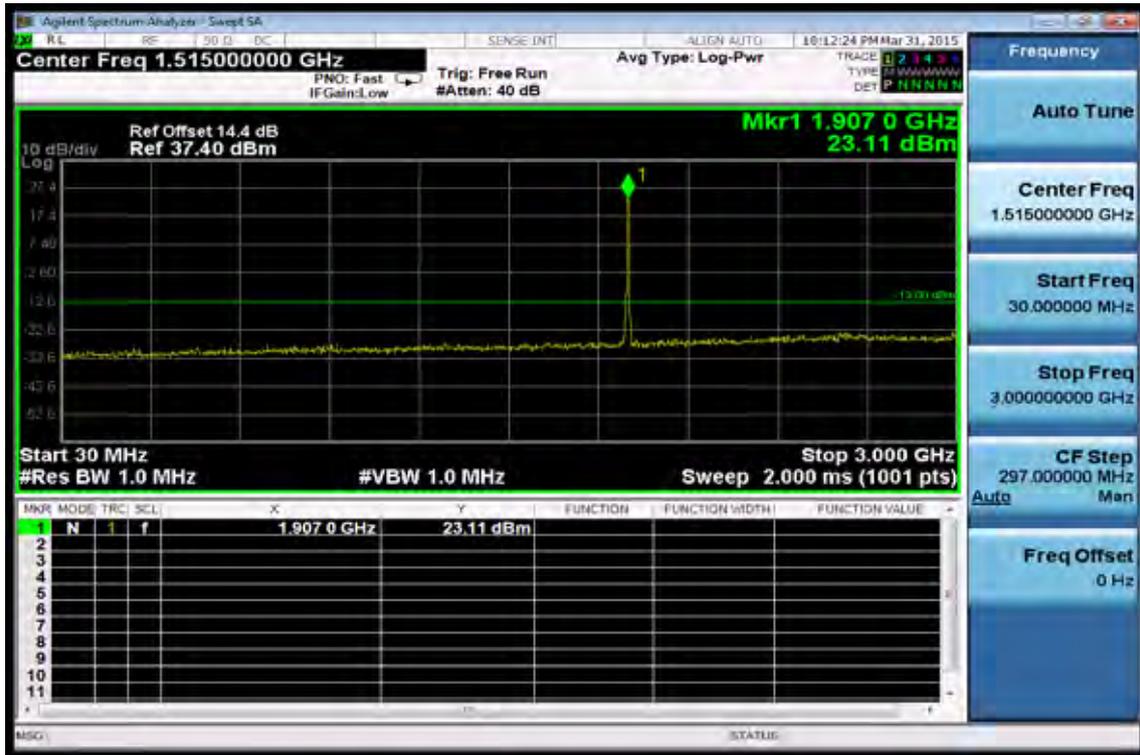
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Out of Band emission at antenna terminals – WCDMA II Channel Highest



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Band edge emission at antenna terminals – WCDMA II Channel Lowest



Band edge emission at antenna terminals – WCDMA II Channel Highest



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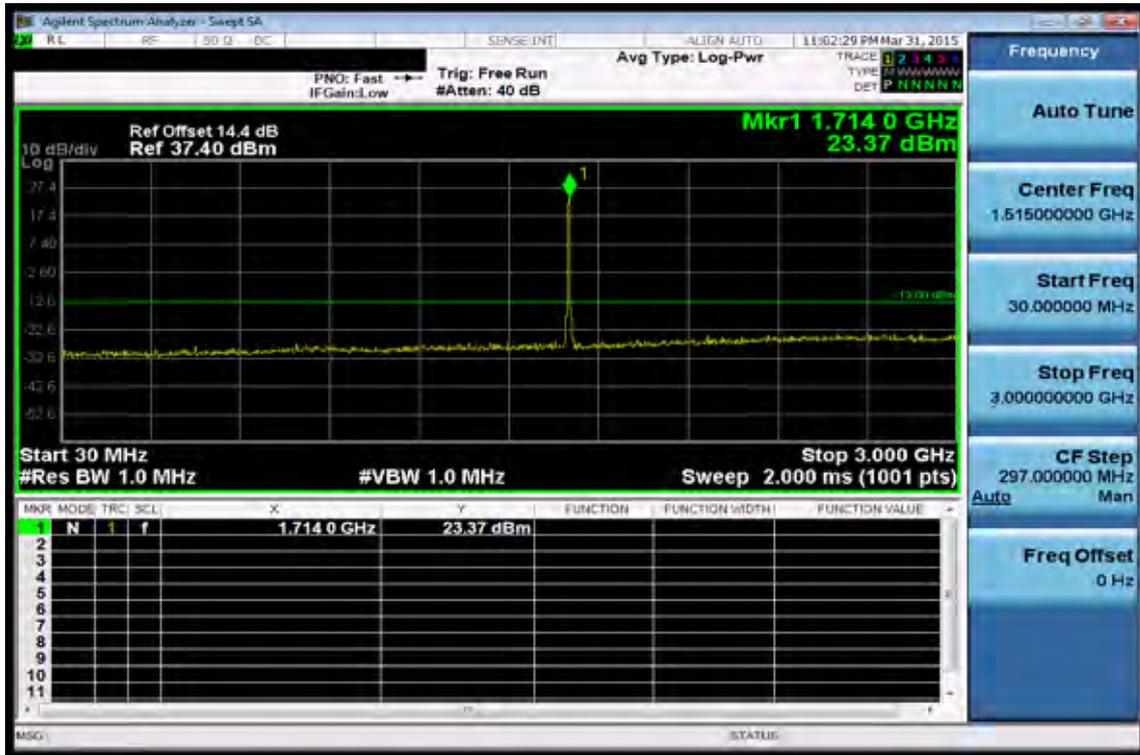
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Out of Band emission at antenna terminals – WCDMA IV Channel Lowest



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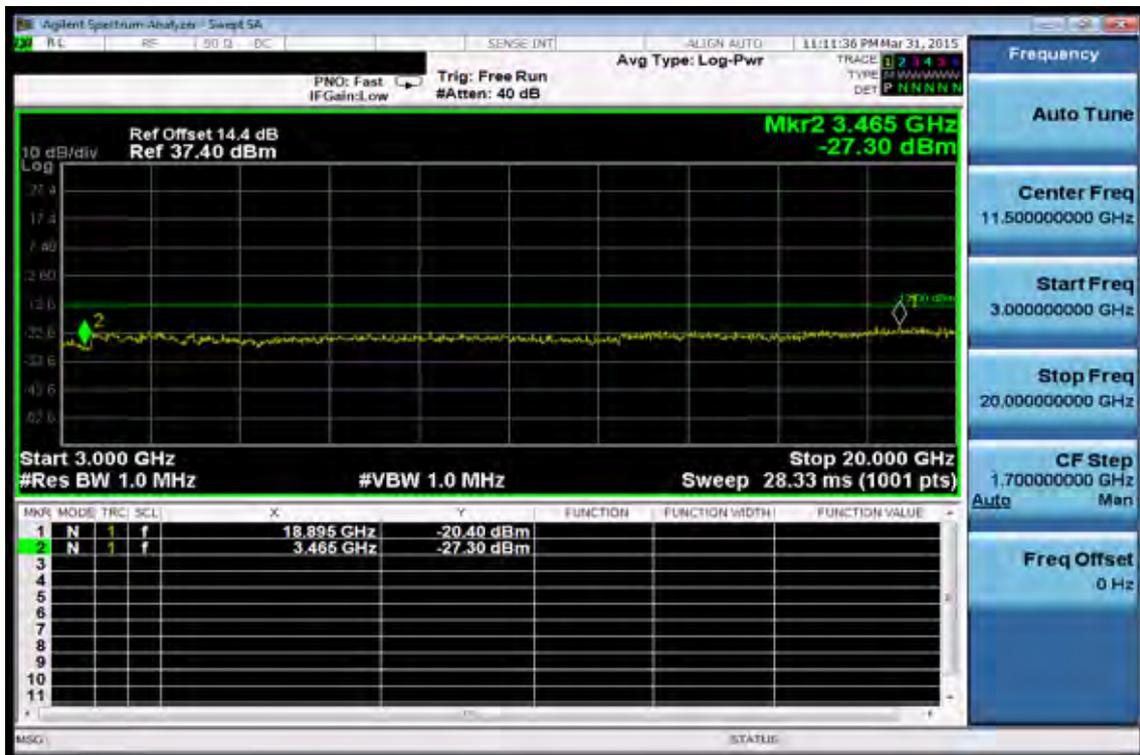
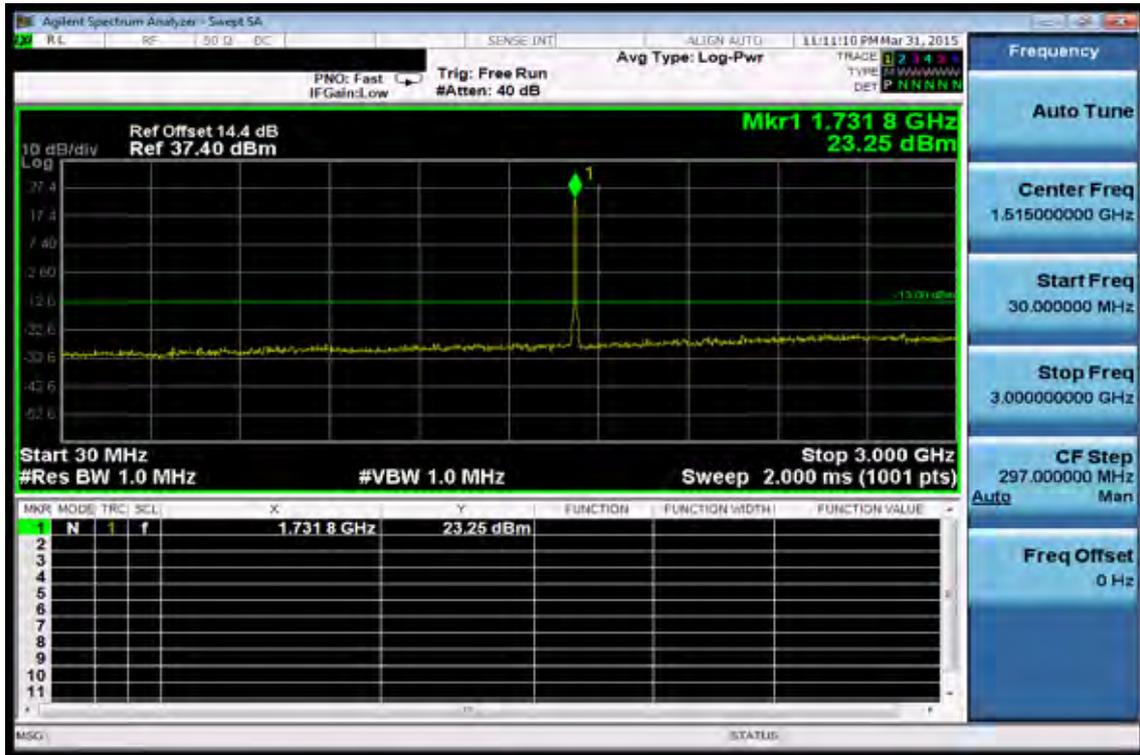
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Out of Band emission at antenna terminals – WCDMA IV Channel Mid



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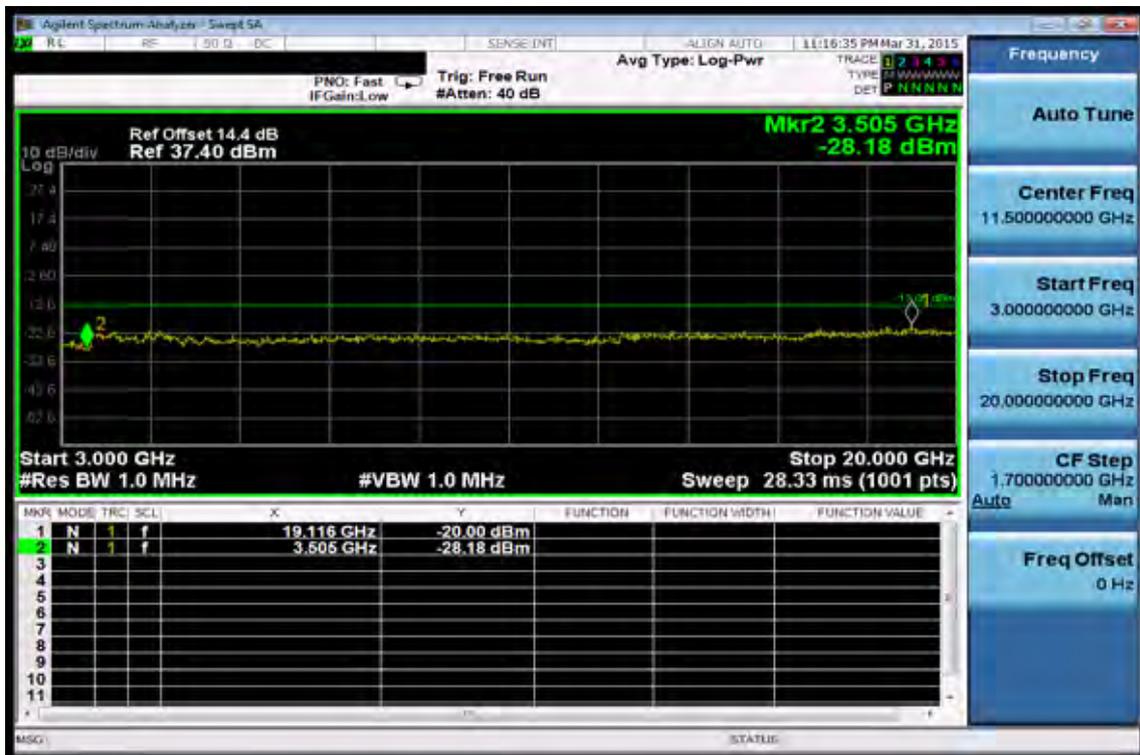
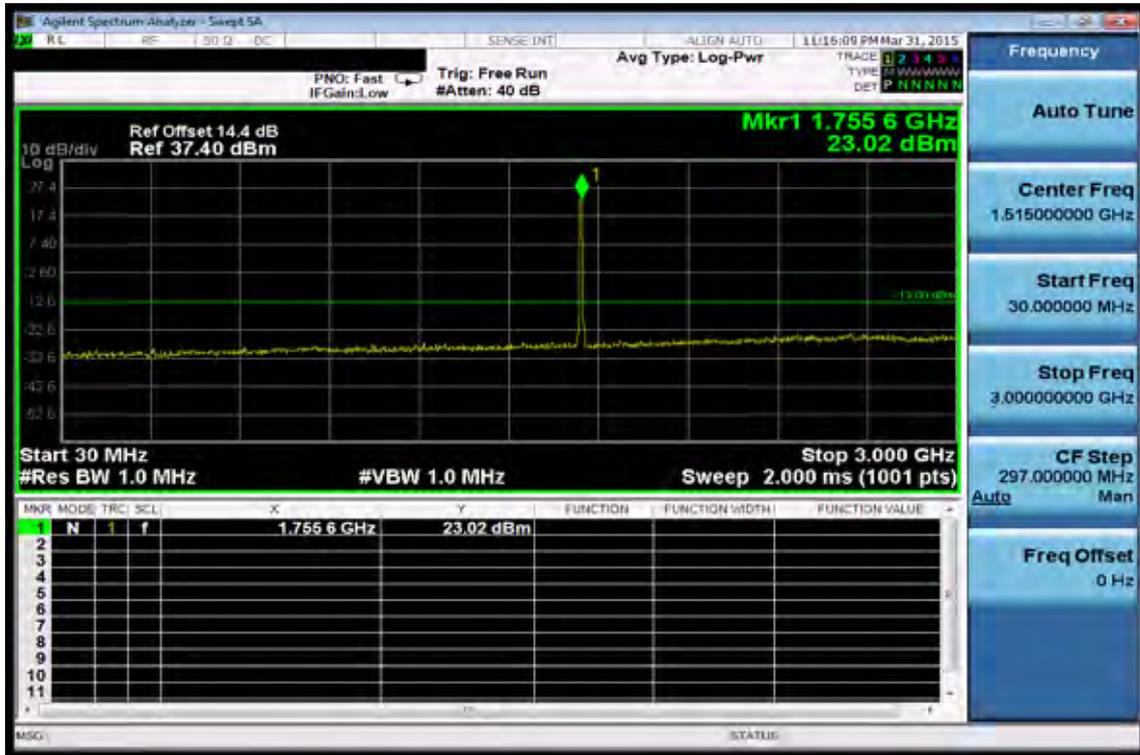
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Out of Band emission at antenna terminals – WCDMA IV Channel Highest



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Band edge emission at antenna terminals – WCDMA IV Channel Lowest



Band edge emission at antenna terminals – WCDMA IV Channel Highest



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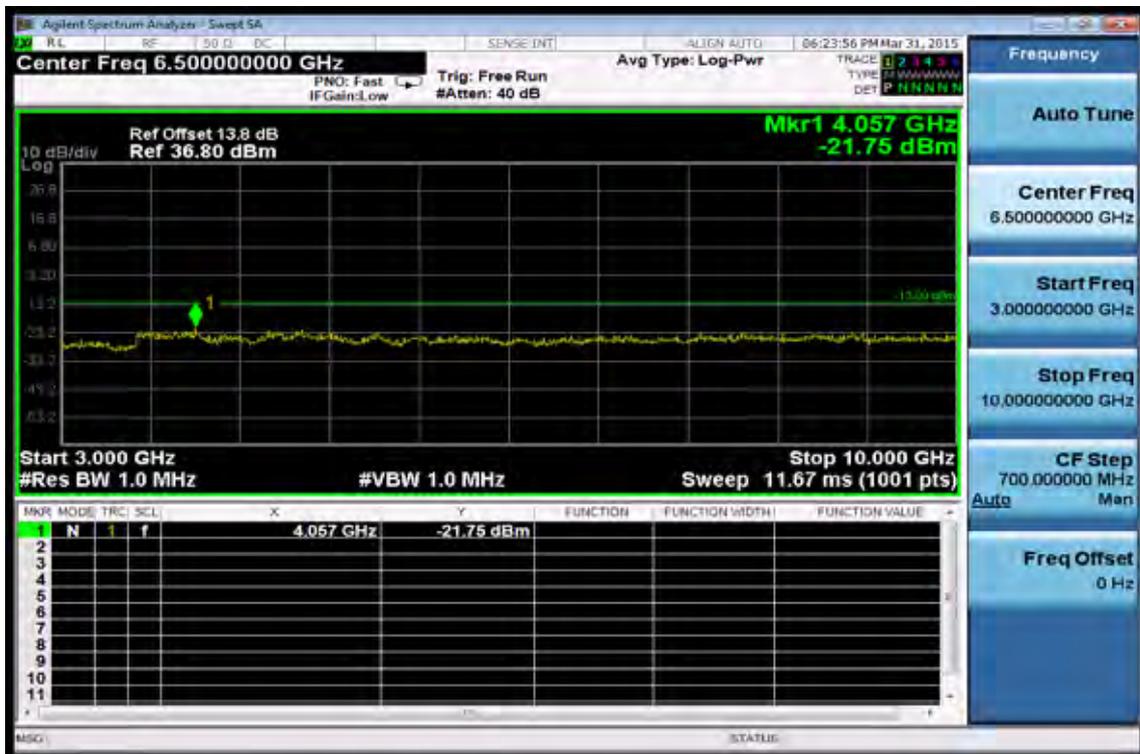
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Out of Band emission at antenna terminals – WCDMA V Channel Lowest



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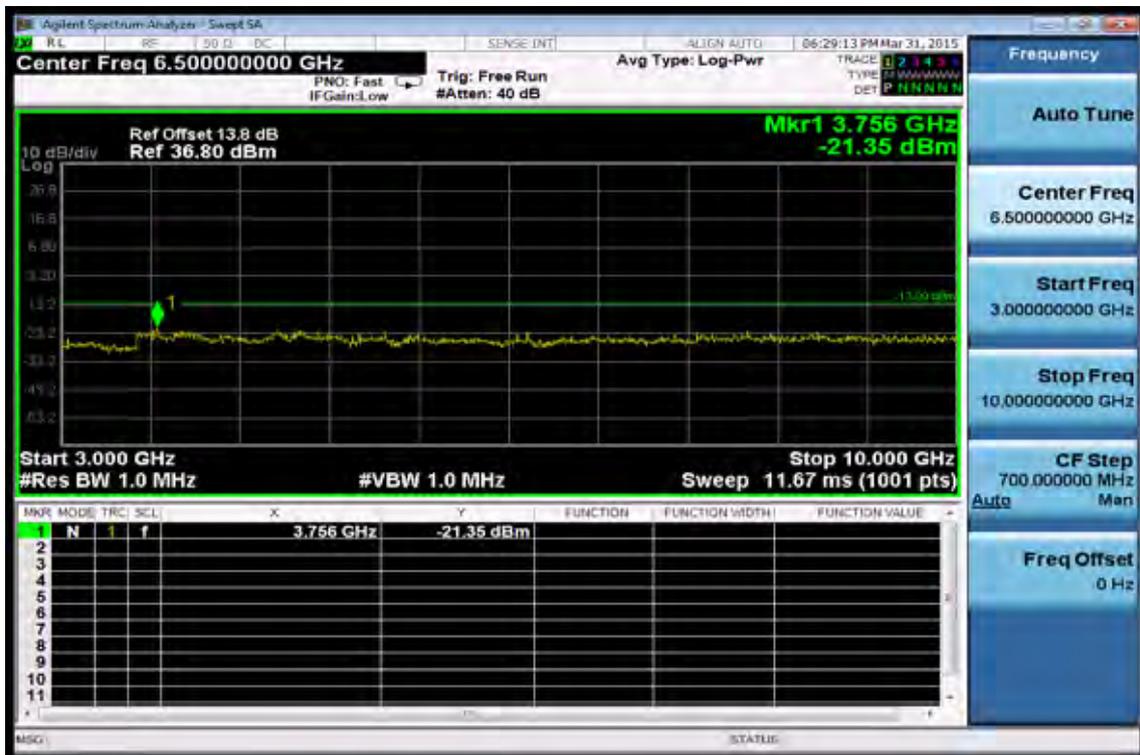
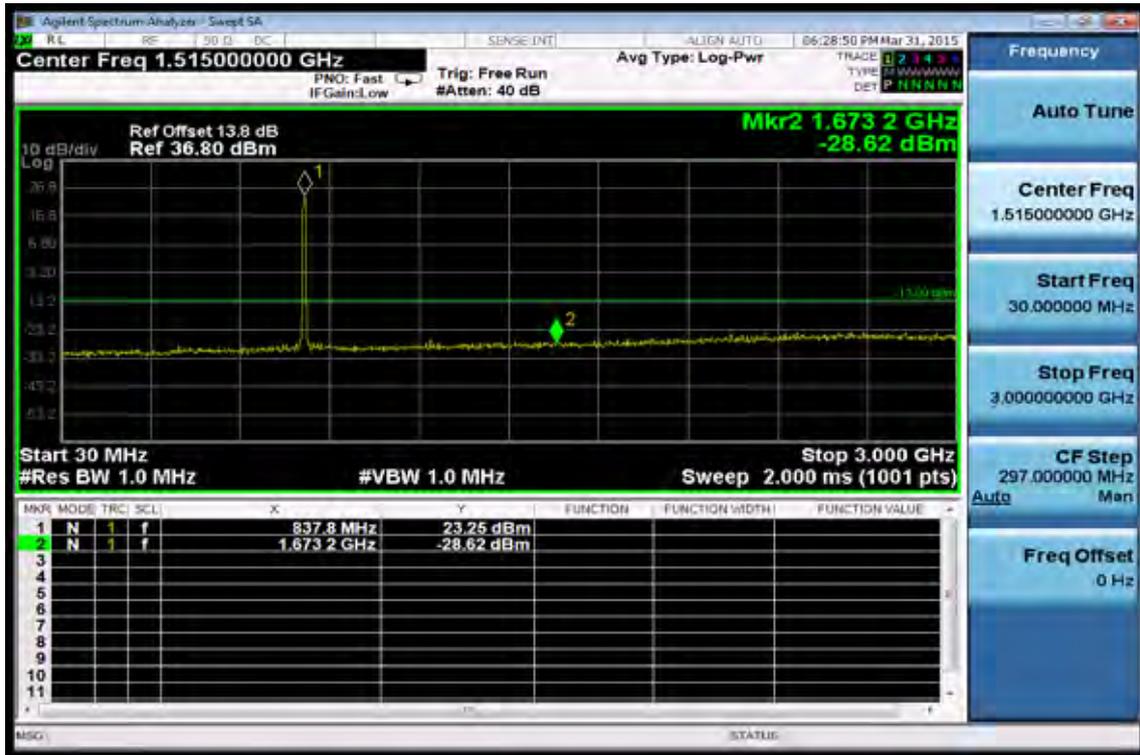
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Out of Band emission at antenna terminals – WCDMA V Channel Mid



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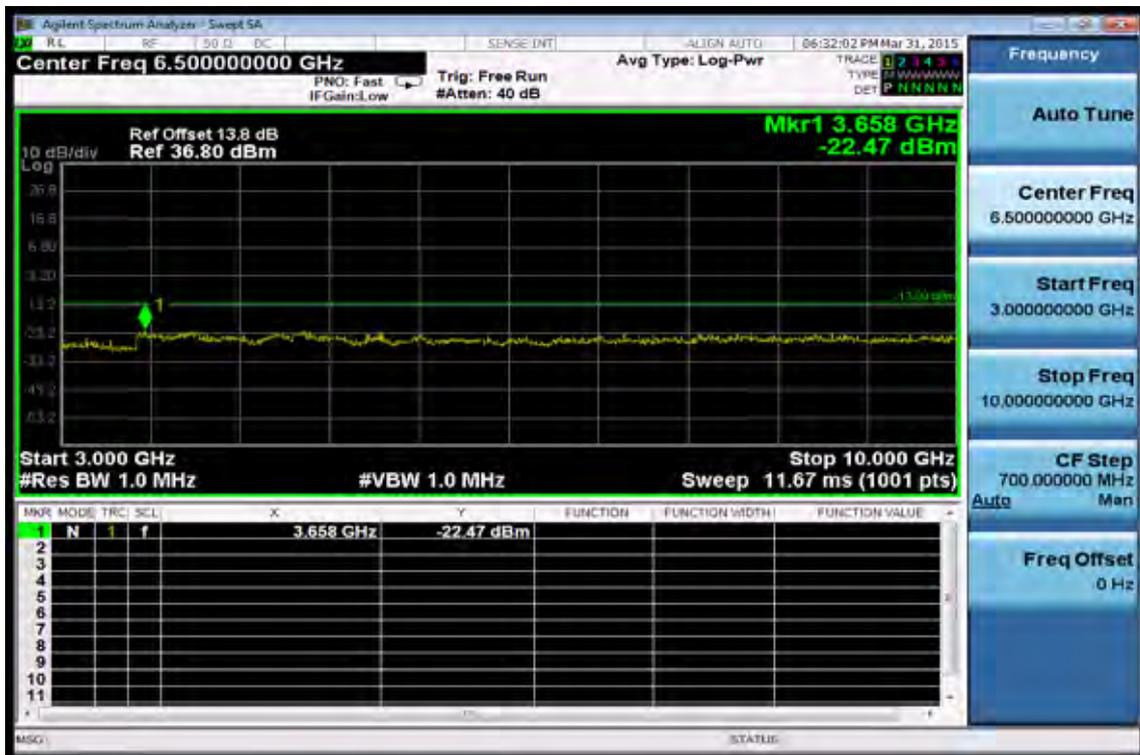
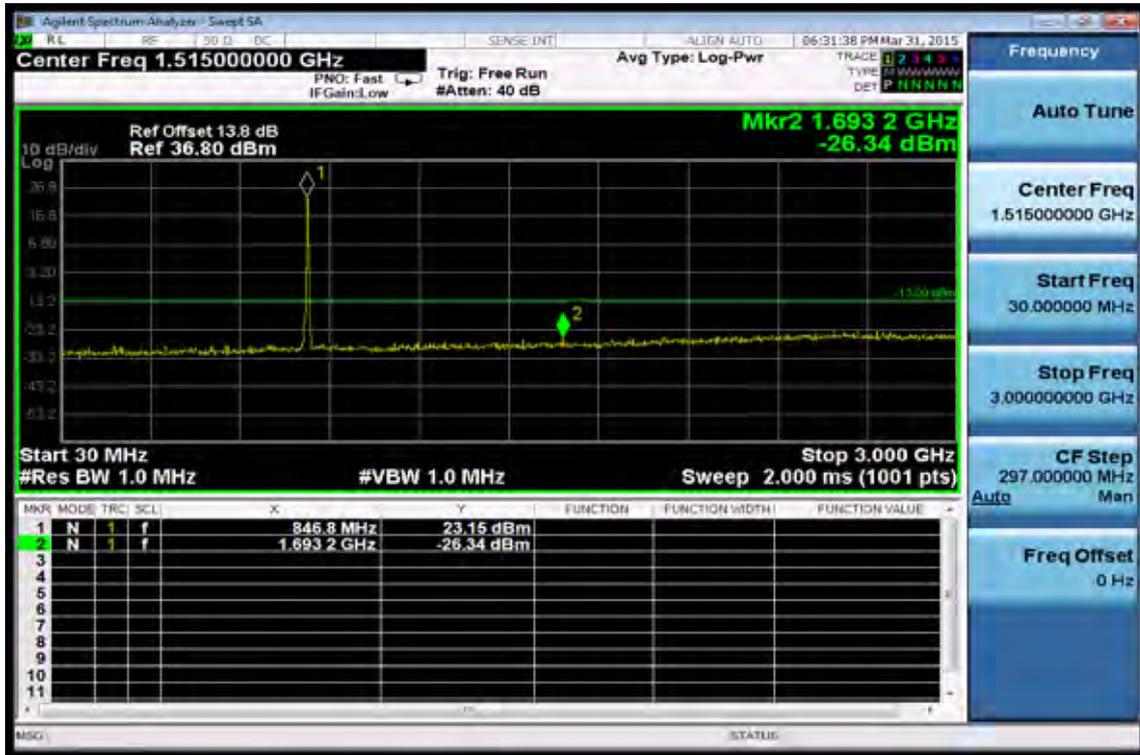
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Out of Band emission at antenna terminals – WCDMA V Channel Highest



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Band edge emission at antenna terminals – WCDMA V Channel Lowest



Band edge emission at antenna terminals – WCDMA V Channel Highest



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10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

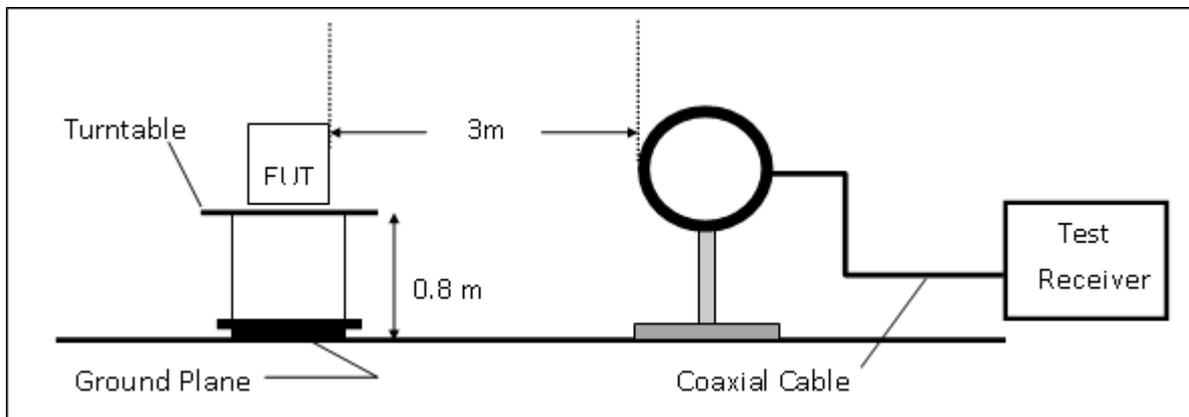
10.1. Standard Applicable

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §27.53(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).

10.2. EUT Setup

(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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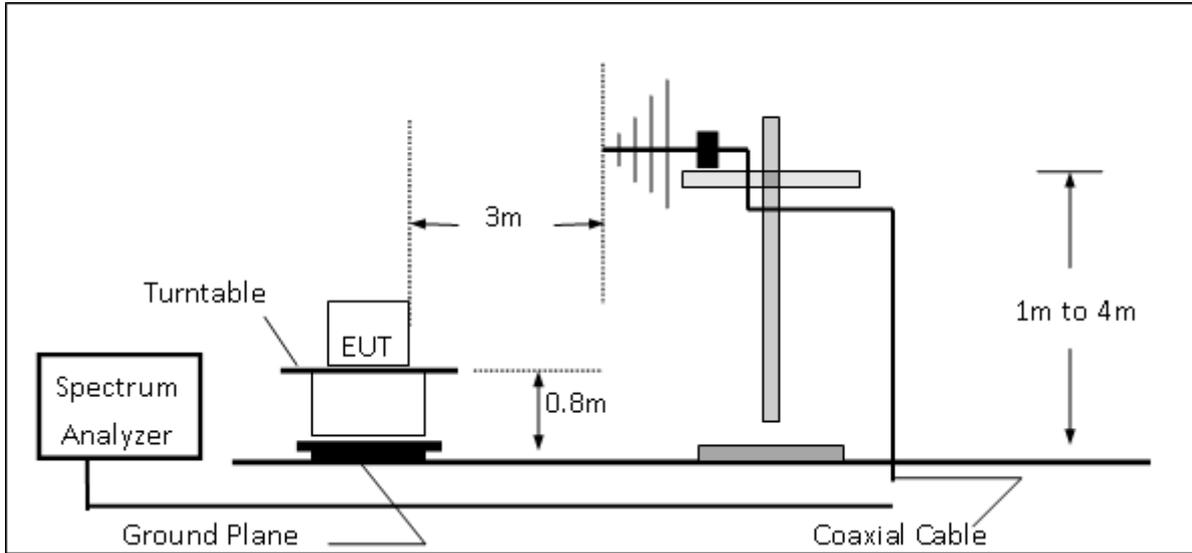
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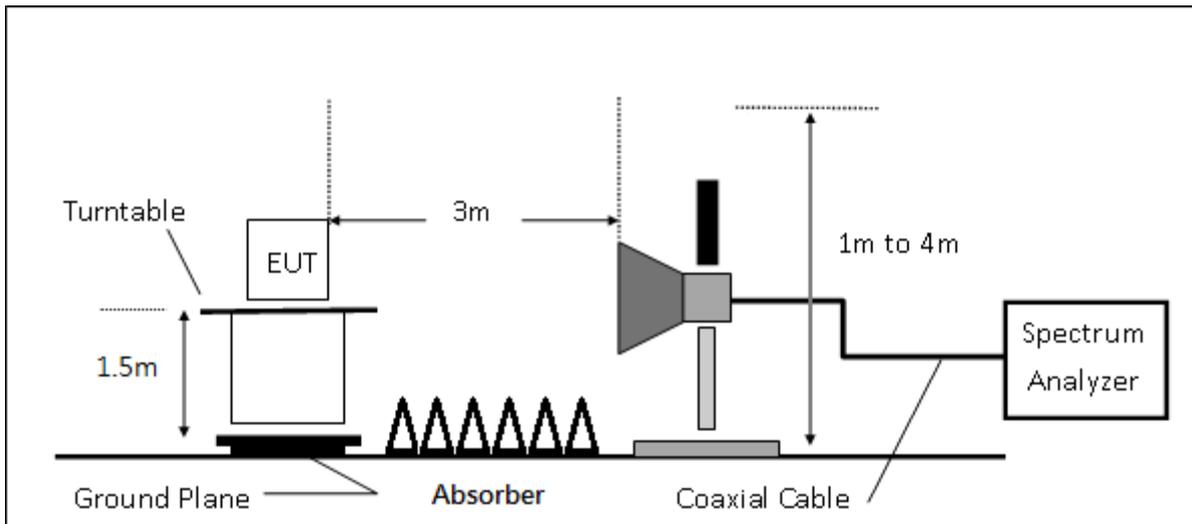
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(B) Radiated Emission Test Set-Up, Frequency form 30MHz to 1000MHz



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



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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= S.G. output (dBm) + Antenna Gain (dBd) – Cable Loss (dB)

EIRP = S.G. output (dBm) + Antenna Gain (dBi) – Cable Loss (dB)

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + 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	04/23/2014	04/22/2015
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	05/31/2014	05/30/2015
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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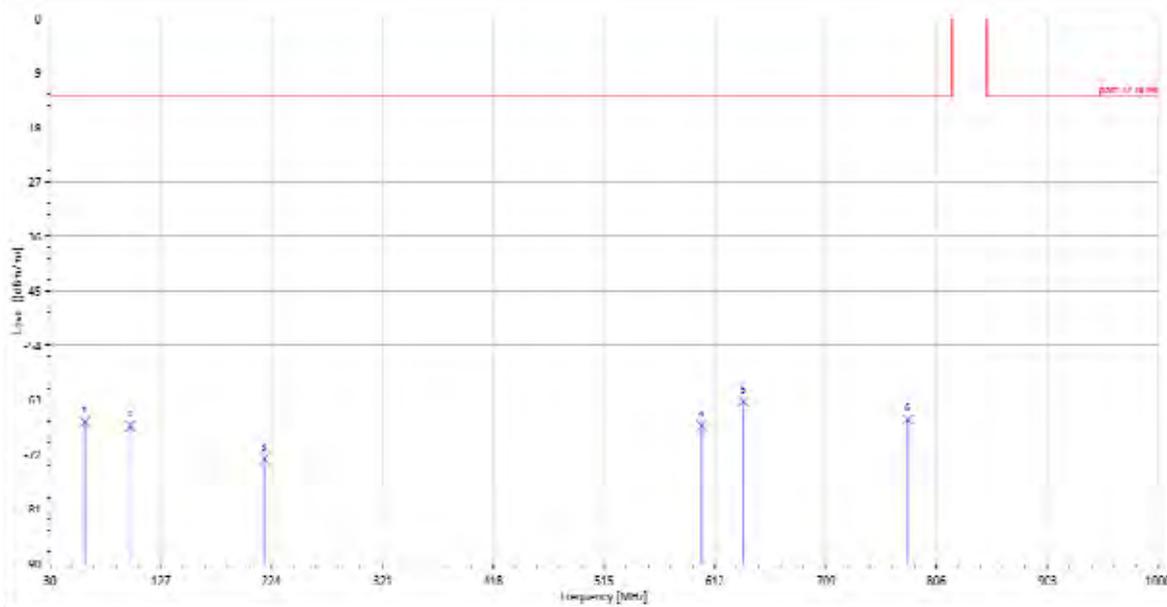
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10.5. Measurement Result (Below 1GHz):

Radiated Spurious Emission Measurement Result: GPRS 850 Mode

ARFCN	:CH 128	Test Date	:2015-04-09
Operation Band	:GPRS 850	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
61.04	S	-66.73	-62.73	-3.05	-0.95	-13.00	-53.73
100.81	S	-67.35	-62.78	-3.36	-1.20	-13.00	-54.35
218.18	S	-72.76	-75.00	4.01	-1.77	-13.00	-59.76
600.36	S	-67.36	-68.73	4.32	-2.95	-13.00	-54.36
637.22	S	-63.32	-64.85	4.54	-3.02	-13.00	-50.32
780.78	S	-66.30	-68.22	5.20	-3.28	-13.00	-53.30

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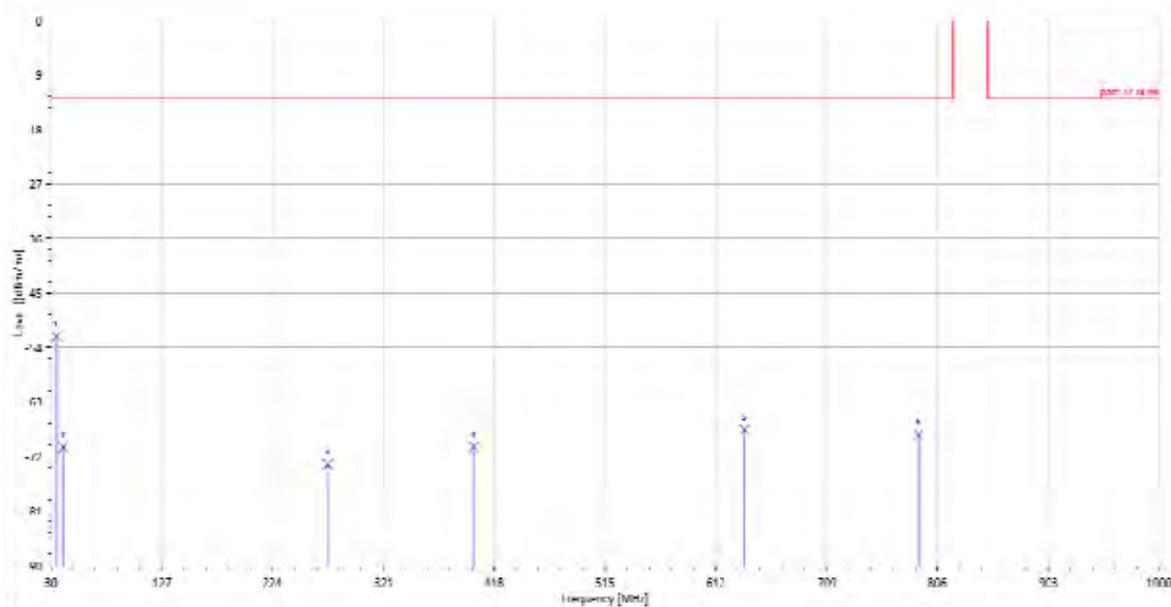
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ARFCN	:CH 128	Test Date	:2015-04-09
Operation Band	:GPRS 850	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
34.85	S	-52.17	-33.16	-18.29	-0.72	-13.00	-39.17
40.67	S	-70.52	-56.15	-13.59	-0.78	-13.00	-57.52
272.50	S	-73.33	-74.49	3.14	-1.98	-13.00	-60.33
400.54	S	-70.42	-71.30	3.20	-2.32	-13.00	-57.42
637.22	S	-67.61	-69.13	4.54	-3.02	-13.00	-54.61
789.51	S	-68.40	-70.33	5.21	-3.28	-13.00	-55.40

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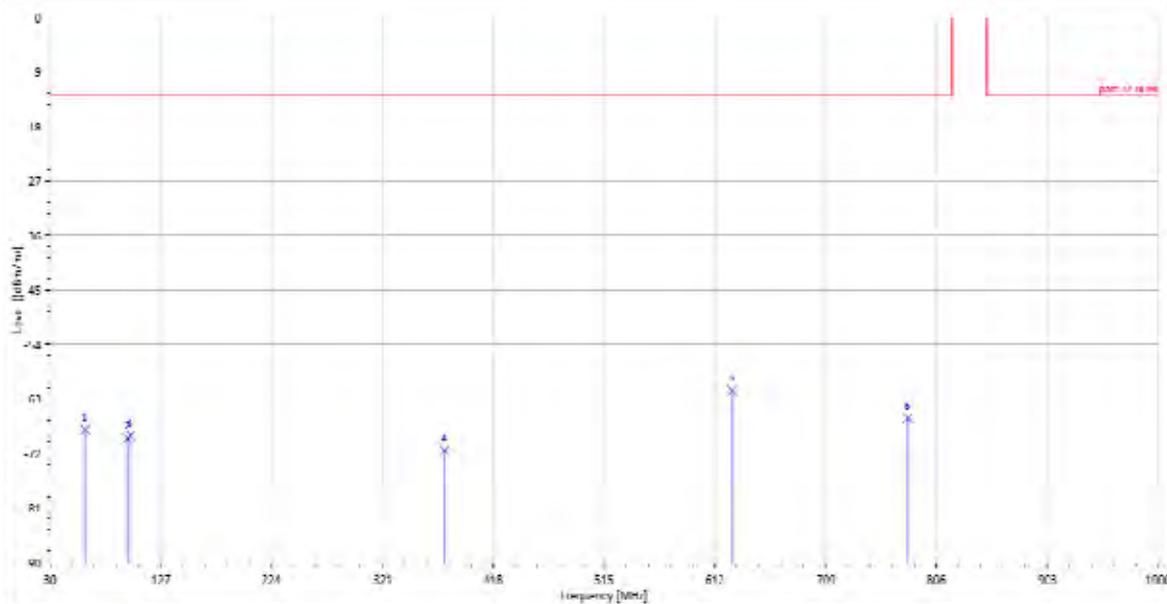
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ARFCN	:CH 190	Test Date	:2015-04-09
Operation Band	:GPRS 850	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
61.04	S	-68.09	-64.09	-3.05	-0.95	-13.00	-55.09
97.90	S	-69.55	-65.25	-3.11	-1.19	-13.00	-56.55
100.81	S	-69.05	-64.49	-3.36	-1.20	-13.00	-56.05
375.32	S	-71.52	-72.49	3.32	-2.35	-13.00	-58.52
627.52	S	-61.69	-63.18	4.49	-2.99	-13.00	-48.69
780.78	S	-66.21	-68.13	5.20	-3.28	-13.00	-53.21

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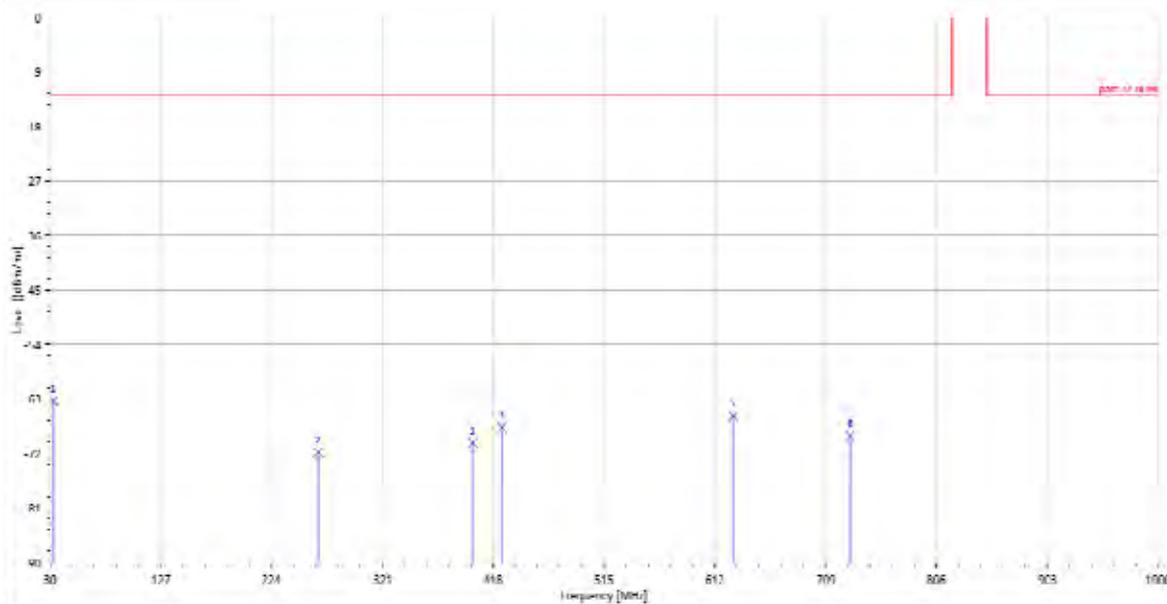
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Operation Band	:GPRS 850	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	S	-63.34	-42.66	-19.97	-0.70	-13.00	-50.34
264.74	S	-71.82	-72.41	2.55	-1.96	-13.00	-58.82
400.54	S	-70.30	-71.18	3.20	-2.32	-13.00	-57.30
425.76	S	-67.71	-68.75	3.42	-2.37	-13.00	-54.71
628.49	S	-65.84	-67.22	4.49	-3.11	-13.00	-52.84
730.34	S	-69.09	-70.99	5.12	-3.22	-13.00	-56.09

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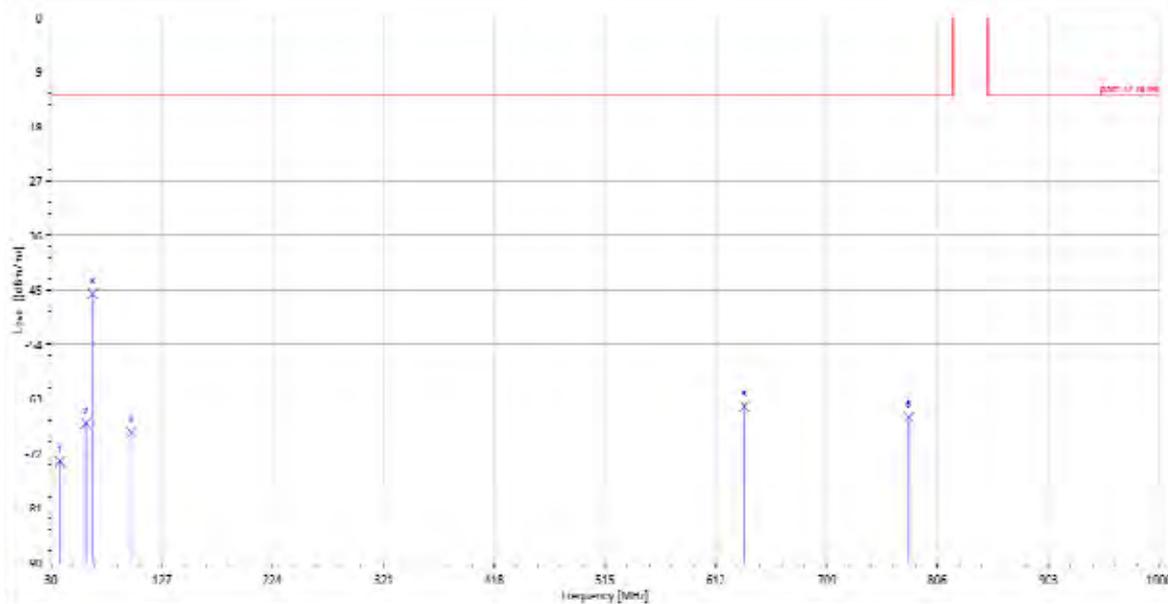
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ARFCN	:CH 251	Test Date	:2015-04-09
Operation Band	:GPRS 850	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



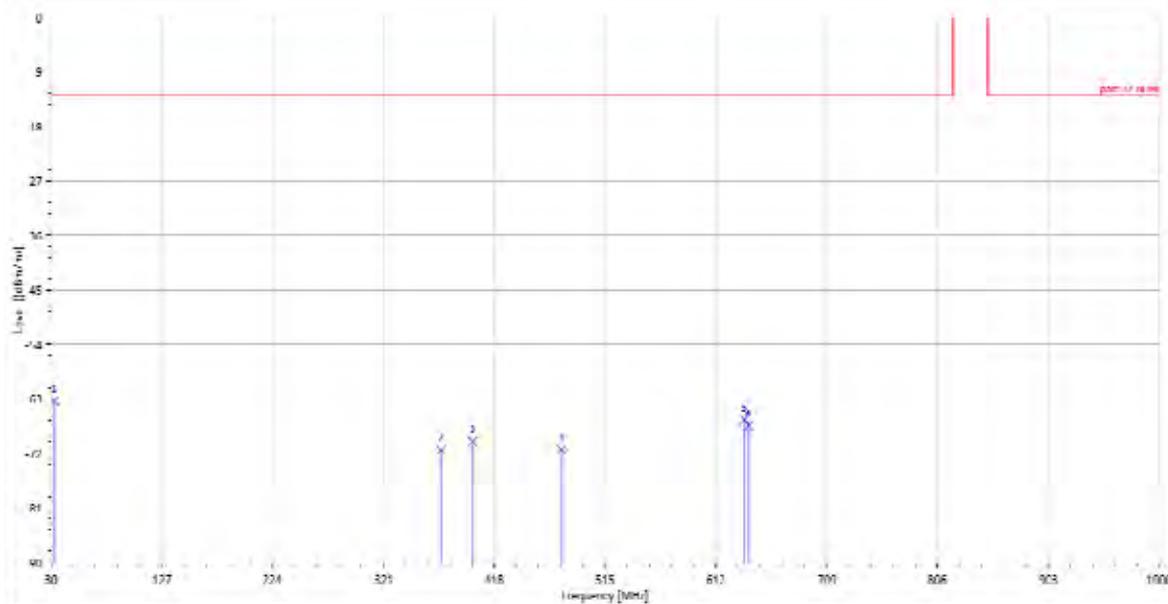
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	S	-73.33	-56.70	-15.92	-0.72	-13.00	-60.33
61.04	S	-67.08	-63.08	-3.05	-0.95	-13.00	-54.08
66.86	S	-45.67	-42.33	-2.33	-1.01	-13.00	-32.67
100.81	S	-68.61	-64.05	-3.36	-1.20	-13.00	-55.61
637.22	S	-64.25	-65.78	4.54	-3.02	-13.00	-51.25
780.78	S	-66.01	-67.93	5.20	-3.28	-13.00	-53.01

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ARFCN	:CH 251	Test Date	:2015-04-09
Operation Band	:GPRS 850	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	S	-63.37	-42.69	-19.97	-0.70	-13.00	-50.37
371.44	S	-71.47	-72.43	3.34	-2.37	-13.00	-58.47
399.57	S	-70.06	-70.96	3.20	-2.30	-13.00	-57.06
477.17	S	-71.38	-72.56	3.85	-2.67	-13.00	-58.38
637.22	S	-66.45	-67.97	4.54	-3.02	-13.00	-53.45
641.10	S	-67.40	-68.72	4.57	-3.25	-13.00	-54.40

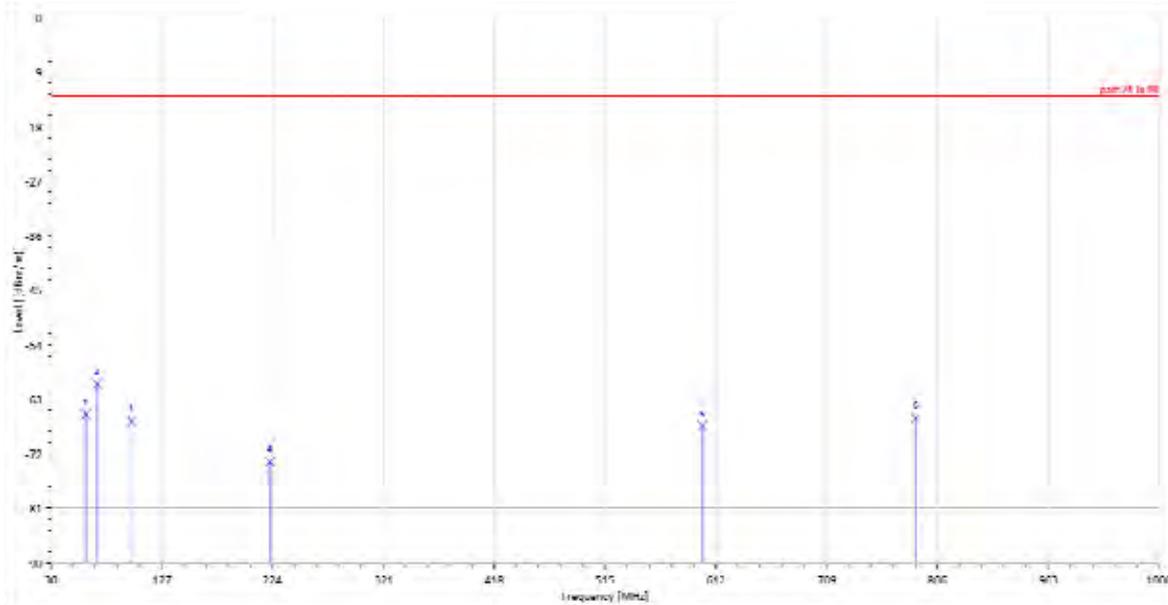
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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

ARFCN	:CH 512	Test Date	:2015-04-09
Operation Band	:GPRS 1900	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



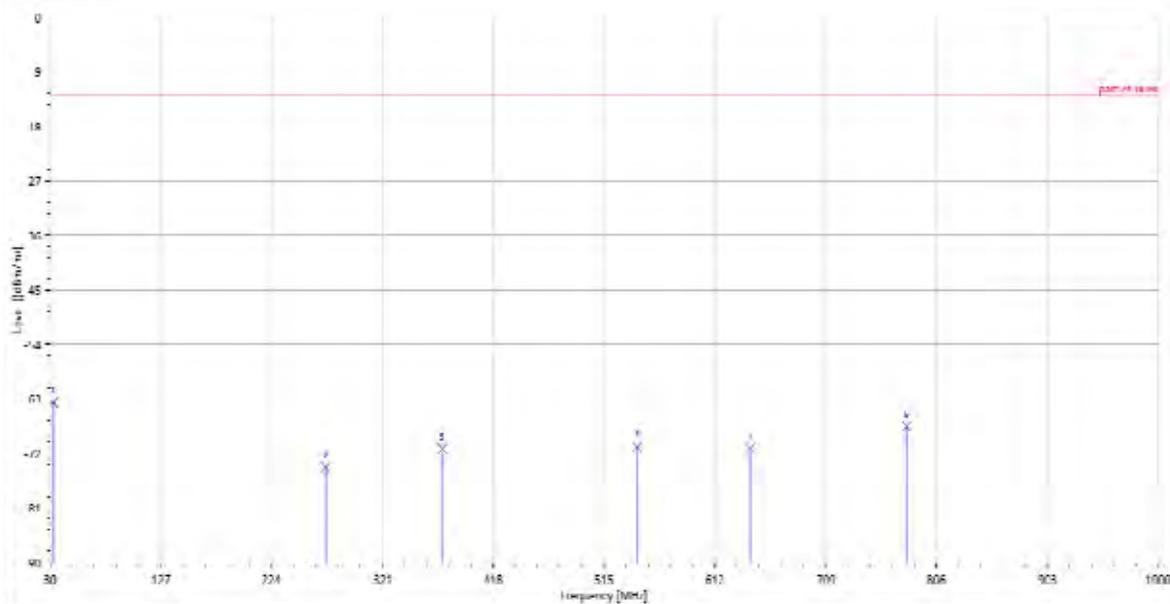
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
61.04	S	-65.50	-63.65	-0.90	-0.95	-13.00	-52.49
70.74	S	-60.50	-59.74	0.23	-0.99	-13.00	-47.49
100.81	S	-66.60	-64.19	-1.21	-1.20	-13.00	-53.59
222.06	S	-73.35	-77.63	6.07	-1.79	-13.00	-60.34
600.36	S	-67.42	-70.94	6.47	-2.95	-13.00	-54.41
786.60	S	-66.08	-70.11	7.35	-3.33	-13.00	-53.07

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ARFCN	:CH 512	Test Date	:2015-04-09
Operation Band	:GPRS 1900	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

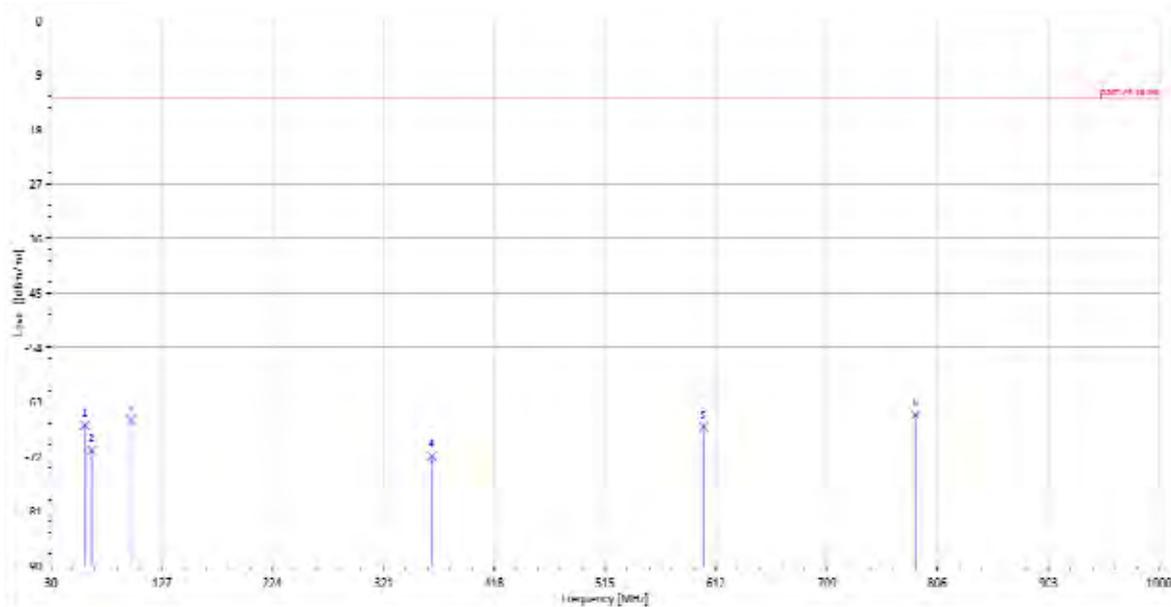


Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
32.91	S	-63.64	-45.11	-17.82	-0.70	-13.00	-50.63
271.53	S	-74.31	-77.60	5.27	-1.98	-13.00	-61.30
373.38	S	-71.25	-74.39	5.48	-2.34	-13.00	-58.24
544.10	S	-70.96	-74.14	6.13	-2.95	-13.00	-57.95
643.04	S	-71.22	-74.85	6.73	-3.10	-13.00	-58.21
779.81	S	-67.56	-71.62	7.35	-3.28	-13.00	-54.55

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ARFCN	:CH 661	Test Date	:2015-04-09
Operation Band	:GPRS 1900	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



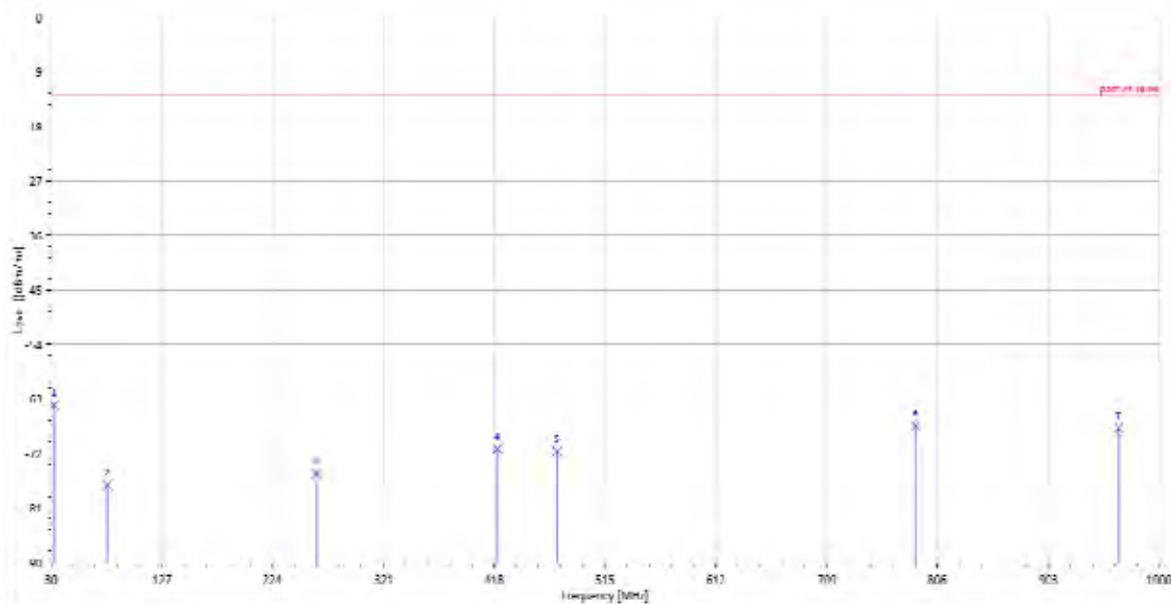
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
60.07	S	-66.88	-64.89	-1.02	-0.96	-13.00	-53.87
65.89	S	-71.03	-69.74	-0.30	-0.99	-13.00	-58.02
100.81	S	-66.05	-63.64	-1.21	-1.20	-13.00	-53.04
363.68	S	-72.02	-75.23	5.52	-2.32	-13.00	-59.01
601.33	S	-67.14	-70.49	6.48	-3.13	-13.00	-54.13
786.60	S	-65.14	-69.16	7.35	-3.33	-13.00	-52.13

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ARFCN	:CH 661	Test Date	:2015-04-09
Operation Band	:GPRS 1900	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

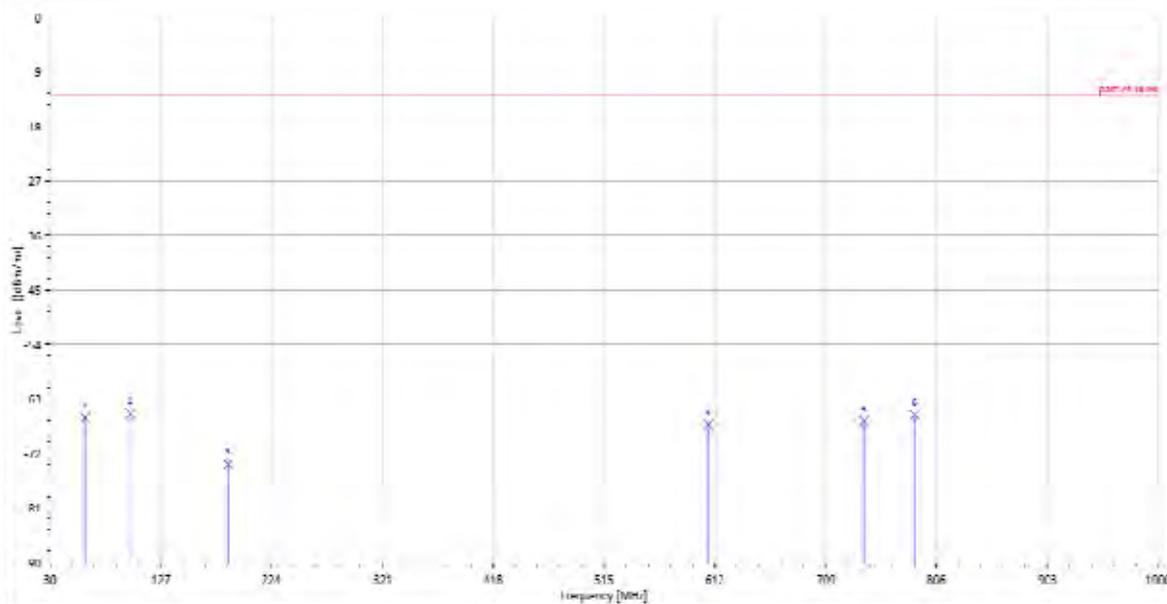


Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
32.91	S	-64.07	-45.55	-17.82	-0.70	-13.00	-51.06
79.47	S	-77.22	-76.63	0.46	-1.04	-13.00	-64.21
262.80	S	-75.30	-77.83	4.50	-1.97	-13.00	-62.29
420.91	S	-71.26	-74.17	5.53	-2.62	-13.00	-58.25
473.29	S	-71.67	-75.07	5.97	-2.56	-13.00	-58.66
786.60	S	-67.45	-71.48	7.35	-3.33	-13.00	-54.44
965.08	S	-67.83	-71.54	7.61	-3.89	-13.00	-54.82

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ARFCN	:CH 810	Test Date	:2015-04-09
Operation Band	:GPRS 1900	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
61.04	S	-66.13	-64.28	-0.90	-0.95	-13.00	-53.12
100.81	S	-65.44	-63.02	-1.21	-1.20	-13.00	-52.43
186.17	S	-73.82	-78.26	6.11	-1.67	-13.00	-60.81
606.18	S	-67.31	-70.93	6.51	-2.89	-13.00	-54.30
742.95	S	-66.72	-70.66	7.30	-3.36	-13.00	-53.71
786.60	S	-65.61	-69.63	7.35	-3.33	-13.00	-52.60

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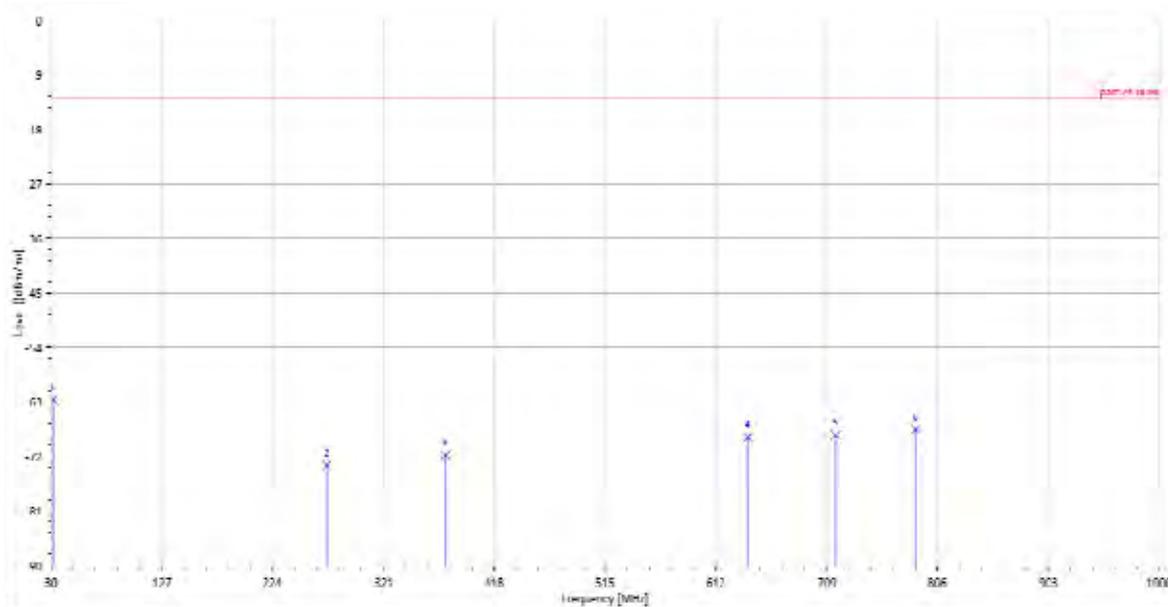
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ARFCN	:CH 810	Test Date	:2015-04-09
Operation Band	:GPRS 1900	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-62.61	-43.26	-18.67	-0.69	-13.00	-49.60
271.53	S	-73.45	-76.74	5.27	-1.98	-13.00	-60.44
375.32	S	-71.82	-74.93	5.47	-2.35	-13.00	-58.81
640.13	S	-68.89	-72.48	6.71	-3.12	-13.00	-55.88
716.76	S	-68.49	-72.33	7.24	-3.40	-13.00	-55.48
786.60	S	-67.56	-71.58	7.35	-3.33	-13.00	-54.55

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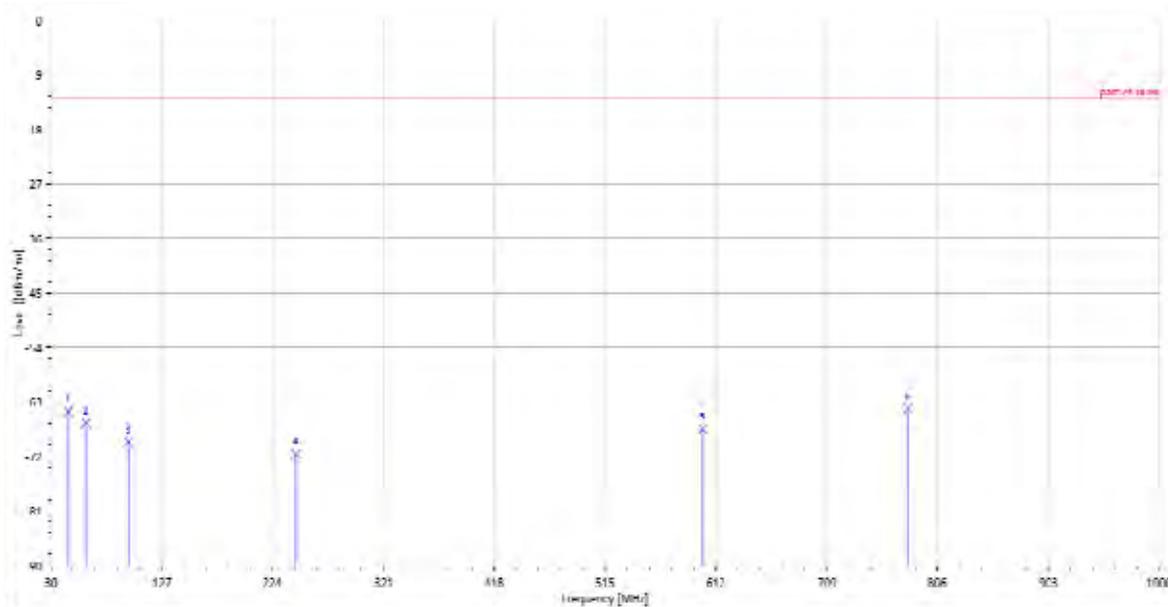
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Radiated Spurious Emission Measurement Result: WCDMA II Mode

ARFCN	:CH 9262	Test Date	:2015-04-09
Operation Band	:WCDMA B2	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



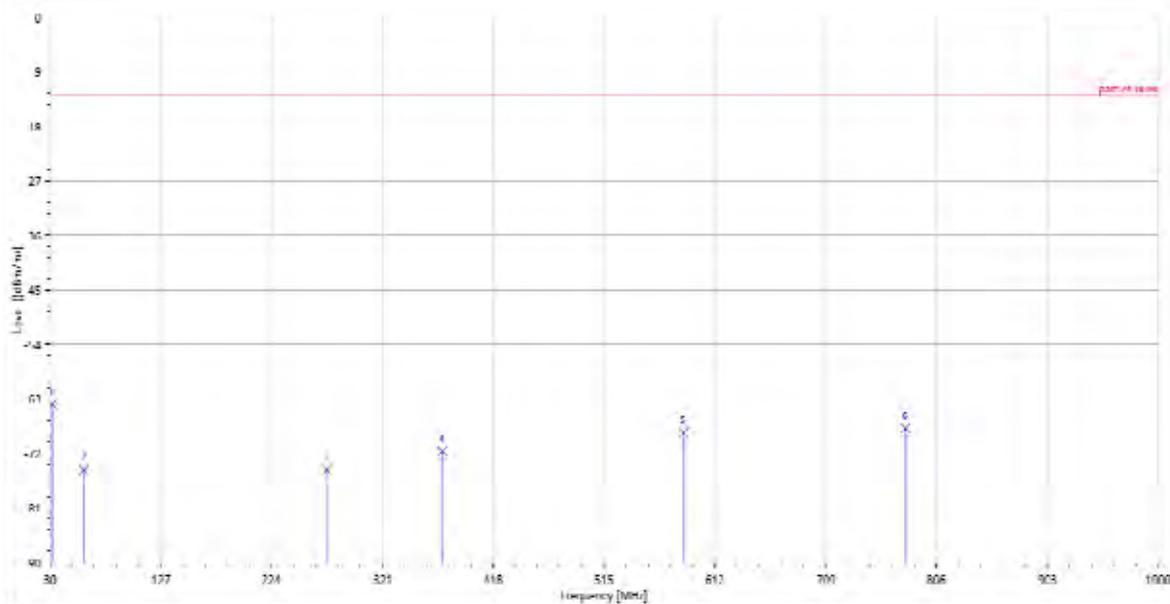
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
45.52	S	-64.60	-56.01	-7.81	-0.78	-13.00	-51.59
61.04	S	-66.53	-64.68	-0.90	-0.95	-13.00	-53.52
97.90	S	-69.64	-67.49	-0.96	-1.19	-13.00	-56.63
244.37	S	-71.62	-74.99	5.16	-1.79	-13.00	-58.61
600.36	S	-67.51	-71.03	6.47	-2.95	-13.00	-54.50
779.81	S	-64.11	-68.18	7.35	-3.28	-13.00	-51.10

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ARFCN	:CH 9262	Test Date	:2015-04-09
Operation Band	:WCDMA B2	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-63.85	-44.49	-18.67	-0.69	-13.00	-50.84
60.07	S	-74.66	-72.68	-1.02	-0.96	-13.00	-61.65
272.50	S	-74.62	-77.93	5.29	-1.98	-13.00	-61.61
373.38	S	-71.67	-74.81	5.48	-2.34	-13.00	-58.66
584.84	S	-68.60	-71.97	6.36	-3.00	-13.00	-55.59
778.84	S	-67.88	-71.97	7.34	-3.26	-13.00	-54.87

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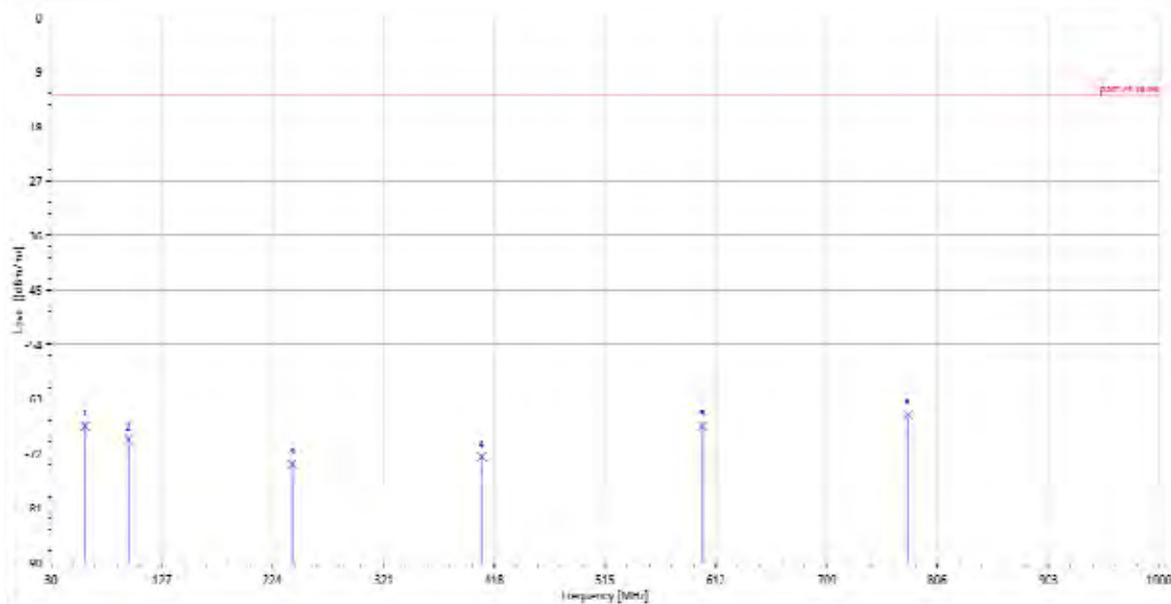
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ARFCN	:CH 9400	Test Date	:2015-04-09
Operation Band	:WCDMA B2	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



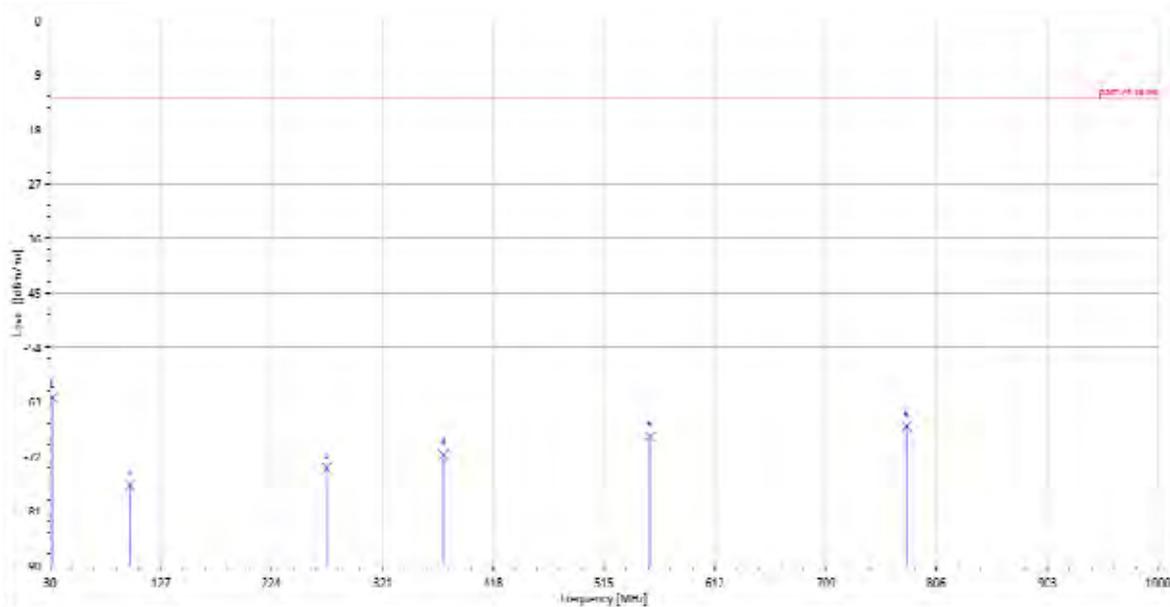
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
60.07	S	-67.46	-65.48	-1.02	-0.96	-13.00	-54.45
97.90	S	-69.64	-67.49	-0.96	-1.19	-13.00	-56.63
241.46	S	-73.76	-77.15	5.26	-1.87	-13.00	-60.75
407.33	S	-72.58	-75.62	5.41	-2.37	-13.00	-59.57
600.36	S	-67.47	-70.99	6.47	-2.95	-13.00	-54.46
779.81	S	-65.60	-69.67	7.35	-3.28	-13.00	-52.59

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ARFCN	:CH 9400	Test Date	:2015-04-09
Operation Band	:WCDMA B2	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-62.30	-42.94	-18.67	-0.69	-13.00	-49.29
99.84	S	-76.79	-74.42	-1.17	-1.20	-13.00	-63.78
272.50	S	-73.96	-77.27	5.29	-1.98	-13.00	-60.95
374.35	S	-71.74	-74.86	5.47	-2.36	-13.00	-58.73
554.77	S	-68.76	-72.01	6.15	-2.90	-13.00	-55.75
779.81	S	-67.05	-71.12	7.35	-3.28	-13.00	-54.04

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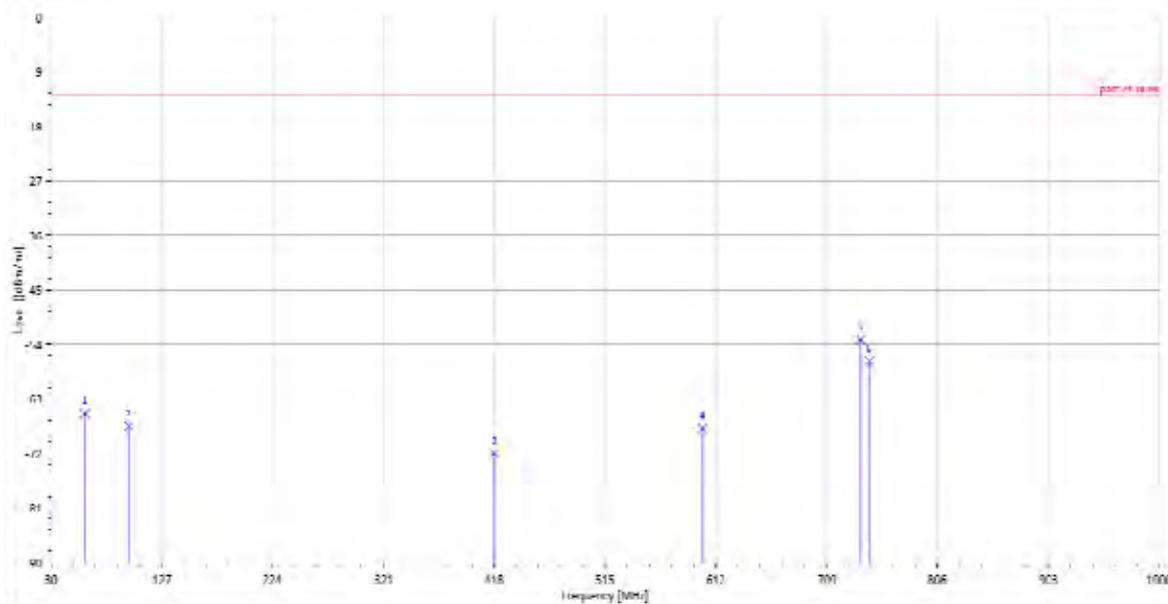
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ARFCN	:CH 9538	Test Date	:2015-04-09
Operation Band	:WCDMA B2	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

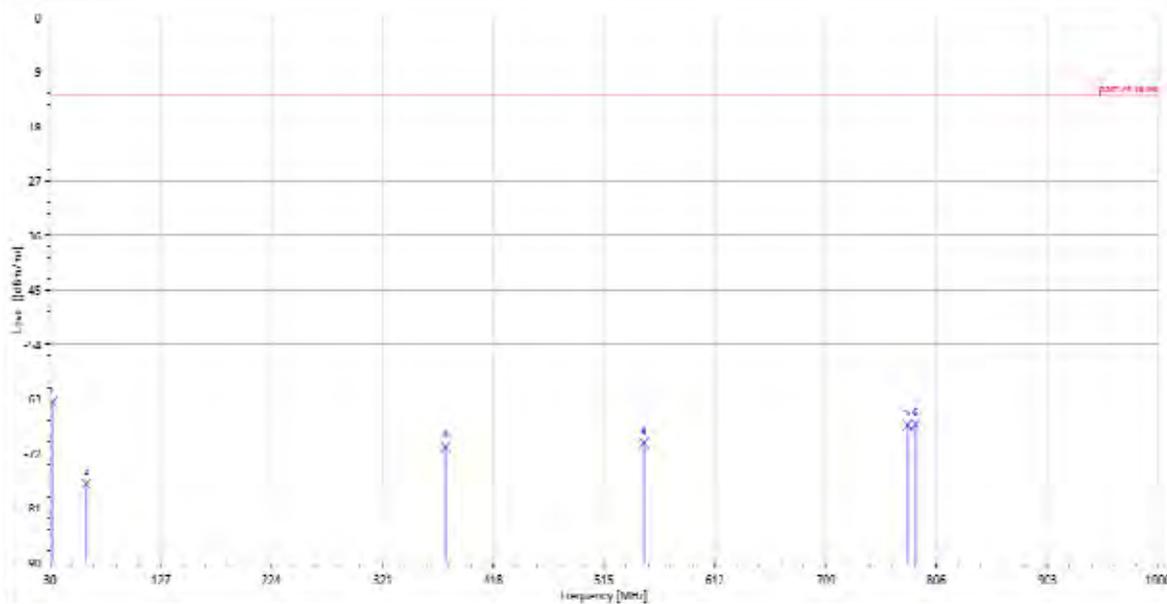


Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
60.07	S	-65.43	-63.45	-1.02	-0.96	-13.00	-52.42
97.90	S	-67.53	-65.37	-0.96	-1.19	-13.00	-54.52
418.00	S	-72.03	-75.20	5.50	-2.33	-13.00	-59.02
600.36	S	-67.92	-71.44	6.47	-2.95	-13.00	-54.91
739.07	S	-53.23	-57.18	7.29	-3.34	-13.00	-40.22
746.83	S	-56.80	-60.68	7.30	-3.43	-13.00	-43.79

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ARFCN	:CH 9538	Test Date	:2015-04-09
Operation Band	:WCDMA B2	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



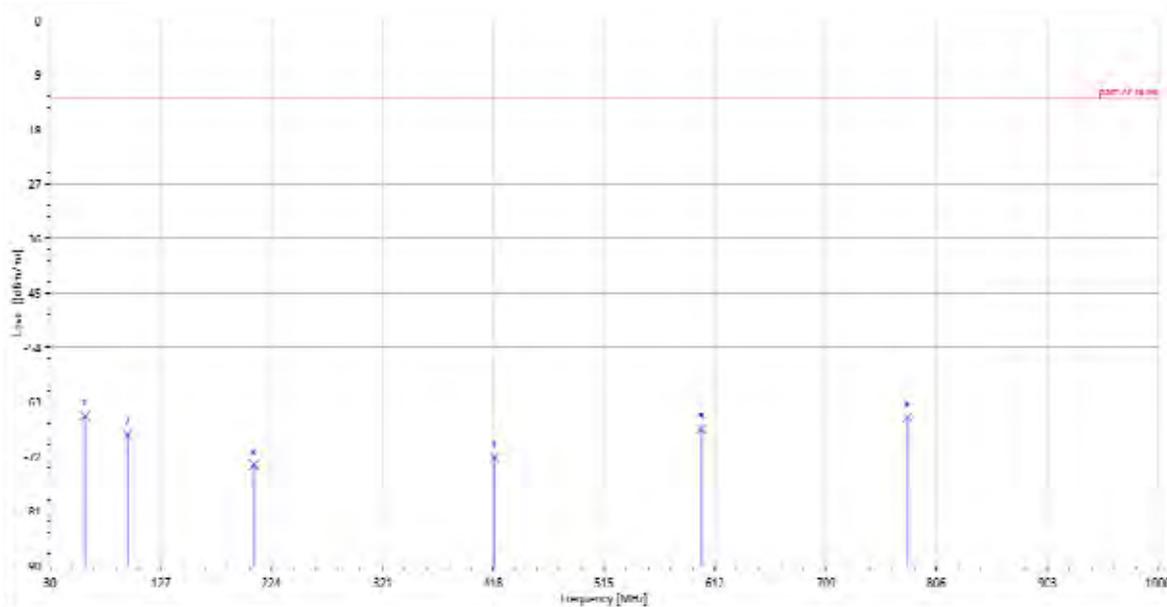
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-63.62	-44.26	-18.67	-0.69	-13.00	-50.61
62.01	S	-77.03	-75.30	-0.78	-0.95	-13.00	-64.02
376.29	S	-70.94	-74.09	5.46	-2.32	-13.00	-57.93
549.92	S	-70.28	-73.72	6.12	-2.68	-13.00	-57.27
780.78	S	-67.36	-71.43	7.35	-3.28	-13.00	-54.35
787.57	S	-67.23	-71.24	7.36	-3.34	-13.00	-54.22

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Radiated Spurious Emission Measurement Result: HSDPA IV Mode

ARFCN	:CH 1312	Test Date	:2015-04-09
Operation Band	:HSDPA B4	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



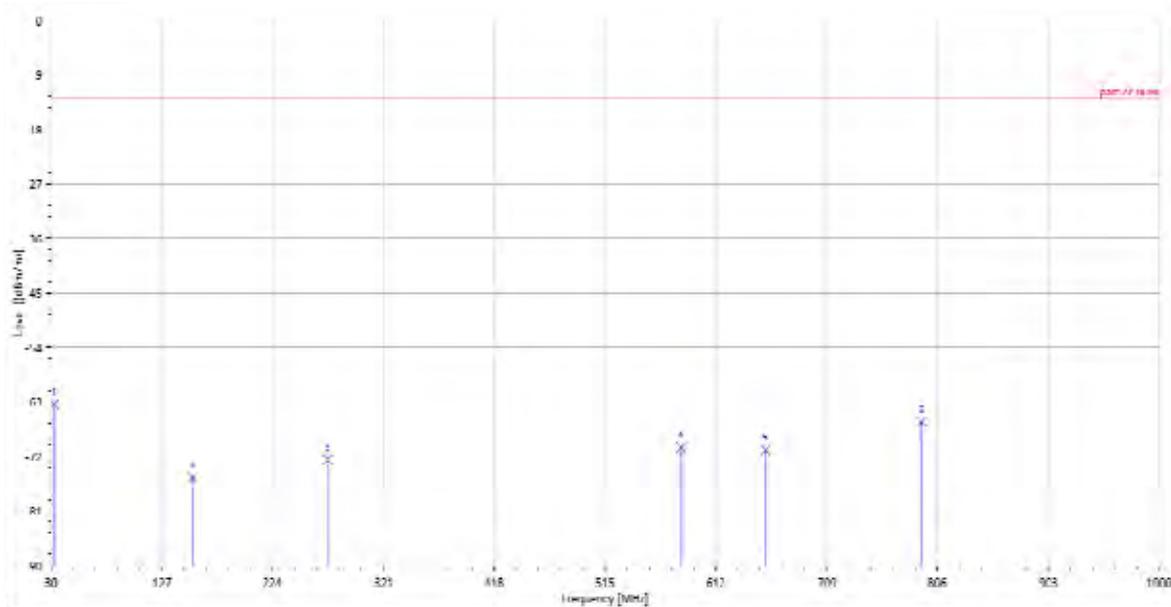
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
61.04	S	-65.32	-63.47	-0.90	-0.95	-13.00	-52.31
97.90	S	-68.34	-66.19	-0.96	-1.19	-13.00	-55.33
208.48	S	-73.38	-77.77	6.12	-1.73	-13.00	-60.37
418.97	S	-72.19	-75.21	5.51	-2.49	-13.00	-59.18
600.36	S	-67.48	-71.00	6.47	-2.95	-13.00	-54.47
780.78	S	-65.55	-69.62	7.35	-3.28	-13.00	-52.54

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ARFCN	:CH 1312	Test Date	:2015-04-09
Operation Band	:HSDPA B4	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
32.91	S	-63.41	-44.89	-17.82	-0.70	-13.00	-50.40
154.16	S	-75.59	-76.95	2.87	-1.51	-13.00	-62.58
272.50	S	-72.57	-75.88	5.29	-1.98	-13.00	-59.56
581.93	S	-70.49	-73.96	6.34	-2.87	-13.00	-57.48
655.65	S	-70.96	-74.74	6.82	-3.04	-13.00	-57.95
792.42	S	-66.40	-70.24	7.36	-3.52	-13.00	-53.39

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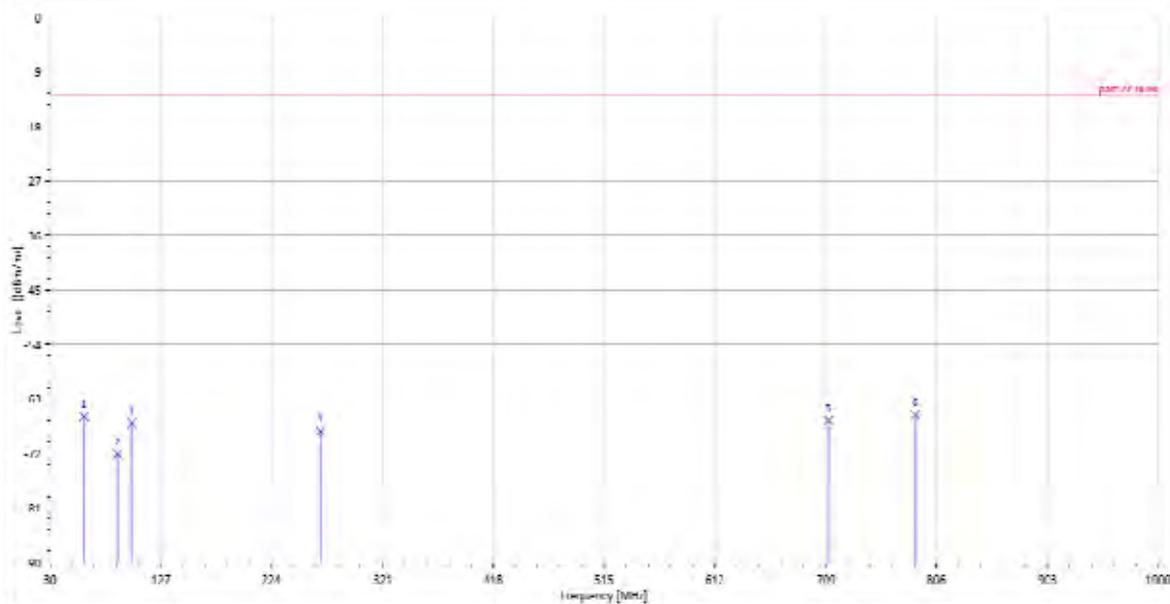
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ARFCN	:CH 1413	Test Date	:2015-04-09
Operation Band	:HSDPA B4	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
60.07	S	-65.89	-63.91	-1.02	-0.96	-13.00	-52.88
89.17	S	-72.07	-70.88	-0.06	-1.13	-13.00	-59.06
101.78	S	-67.02	-64.57	-1.24	-1.21	-13.00	-54.01
266.68	S	-68.35	-71.25	4.90	-1.99	-13.00	-55.34
711.91	S	-66.59	-70.73	7.23	-3.09	-13.00	-53.58
787.57	S	-65.65	-69.66	7.36	-3.34	-13.00	-52.64

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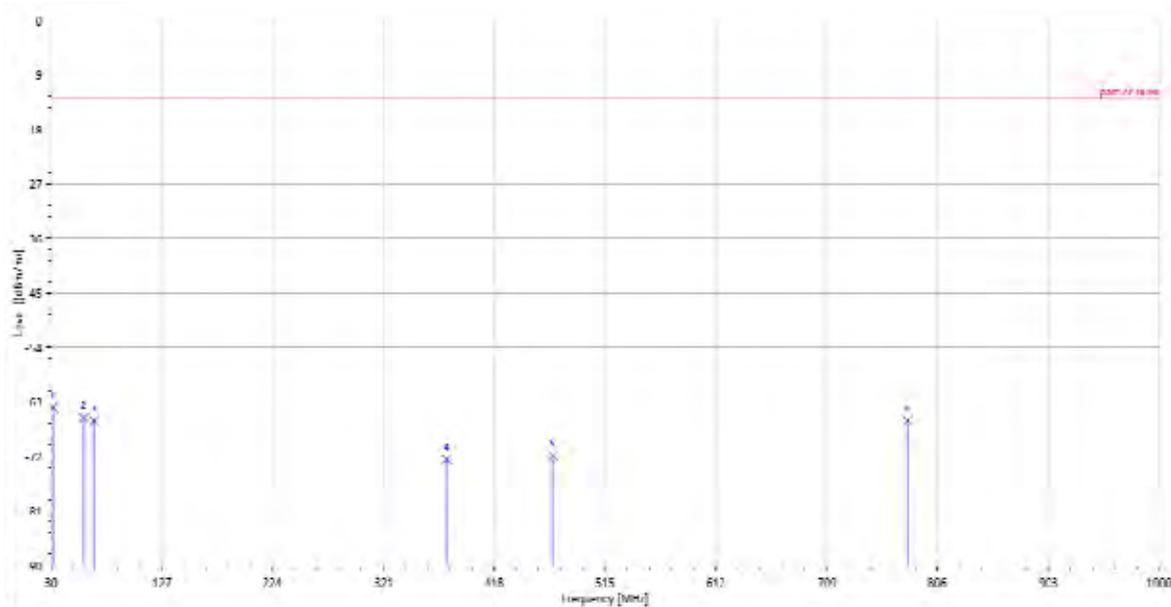
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ARFCN	:CH 1413	Test Date	:2015-04-09
Operation Band	:HSDPA B4	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-63.91	-44.56	-18.67	-0.69	-13.00	-50.90
59.10	S	-65.62	-63.28	-1.39	-0.95	-13.00	-52.61
67.83	S	-66.14	-65.05	-0.06	-1.03	-13.00	-53.13
376.29	S	-72.52	-75.66	5.46	-2.32	-13.00	-59.51
469.41	S	-71.90	-75.11	5.93	-2.72	-13.00	-58.89
779.81	S	-66.13	-70.20	7.35	-3.28	-13.00	-53.12

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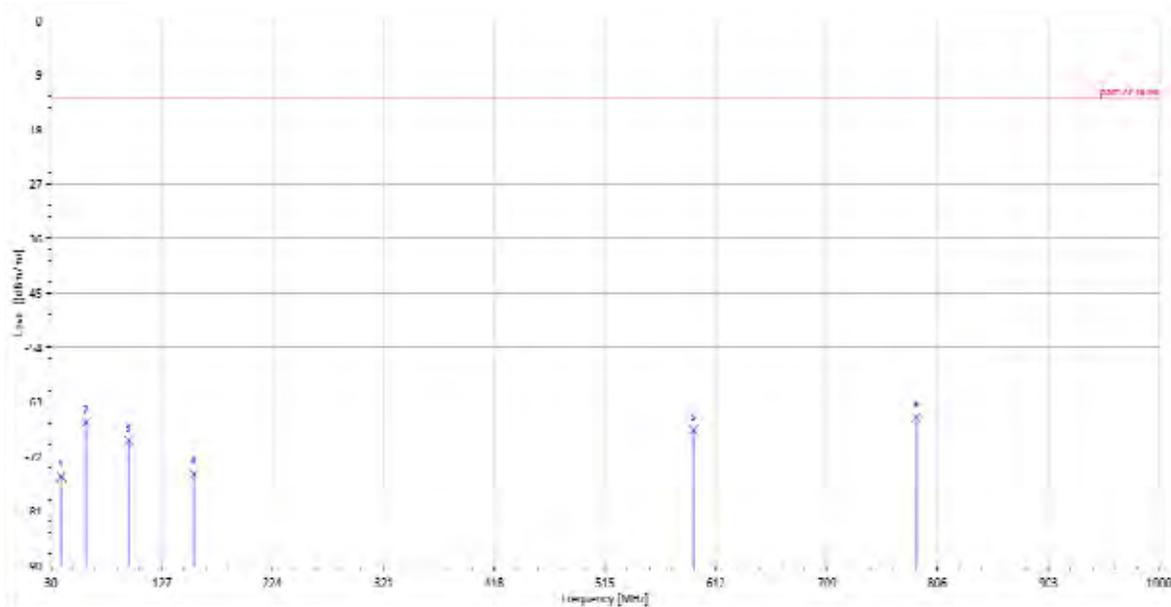
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ARFCN	:CH 1513	Test Date	:2015-04-09
Operation Band	:HSDPA B4	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
38.73	S	-75.31	-61.57	-12.98	-0.76	-13.00	-62.30
61.04	S	-66.39	-64.54	-0.90	-0.95	-13.00	-53.38
97.90	S	-69.39	-67.23	-0.96	-1.19	-13.00	-56.38
155.13	S	-74.94	-76.47	2.97	-1.44	-13.00	-61.93
592.60	S	-67.66	-70.95	6.42	-3.13	-13.00	-54.65
787.57	S	-65.54	-69.56	7.36	-3.34	-13.00	-52.53

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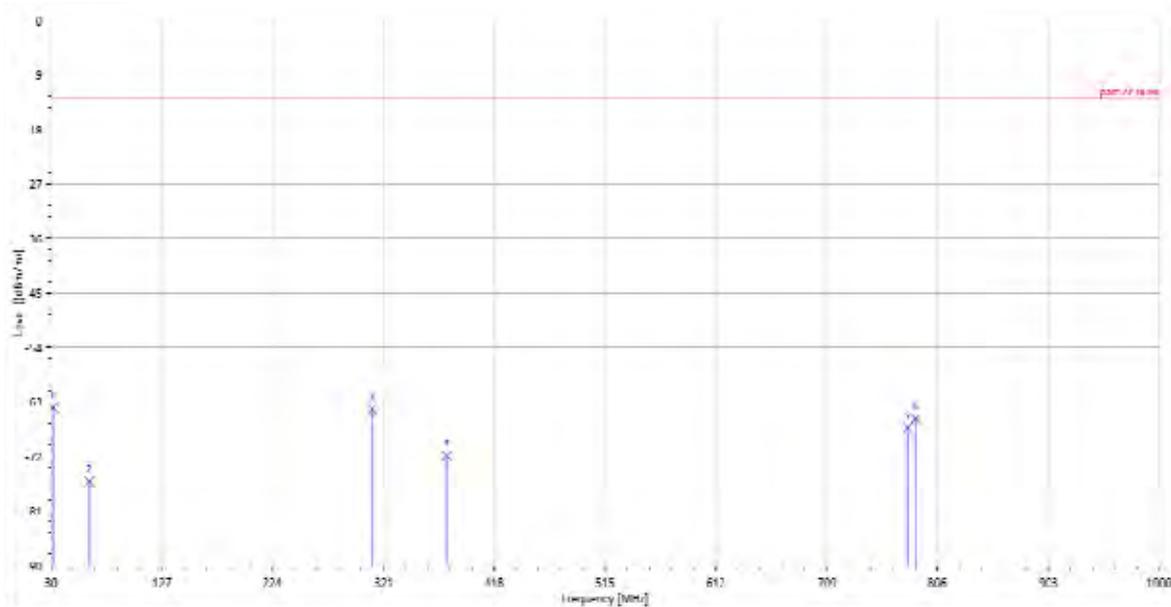
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ARFCN	:CH 1513	Test Date	:2015-04-09
Operation Band	:HSDPA B4	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-63.96	-44.60	-18.67	-0.69	-13.00	-50.95
63.95	S	-76.18	-74.65	-0.54	-0.99	-13.00	-63.17
311.30	S	-64.20	-67.70	5.64	-2.14	-13.00	-51.19
376.29	S	-71.89	-75.04	5.46	-2.32	-13.00	-58.88
779.81	S	-67.26	-71.33	7.35	-3.28	-13.00	-54.25
786.60	S	-65.75	-69.77	7.35	-3.33	-13.00	-52.74

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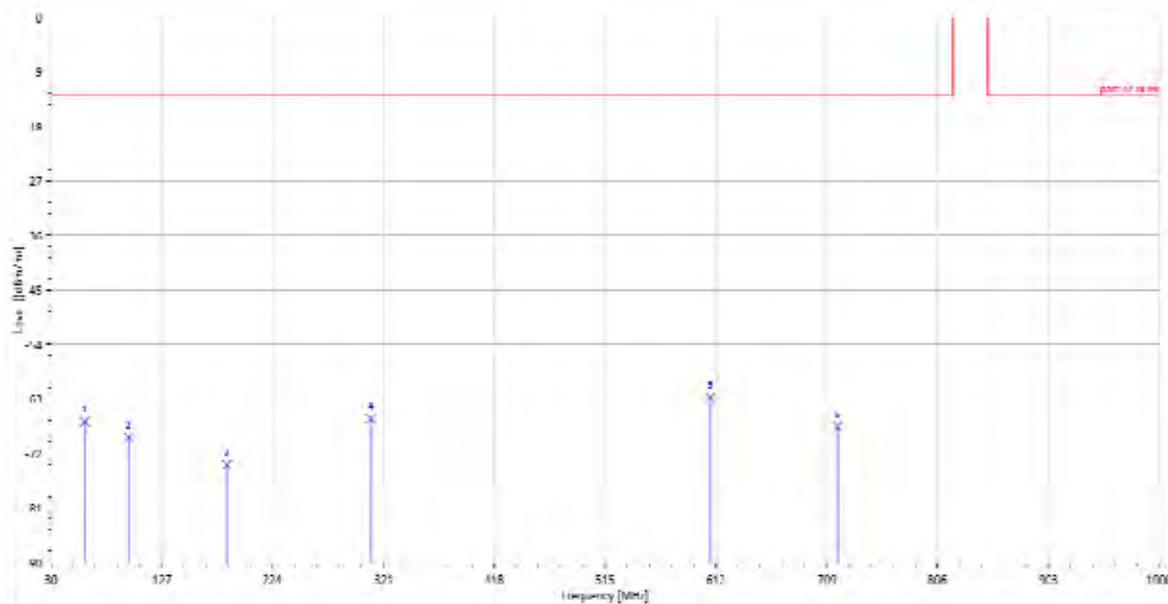
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Radiated Spurious Emission Measurement Result: HSUPA V Mode

ARFCN	:CH 4132	Test Date	:2015-04-09
Operation Band	:HSUPA B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



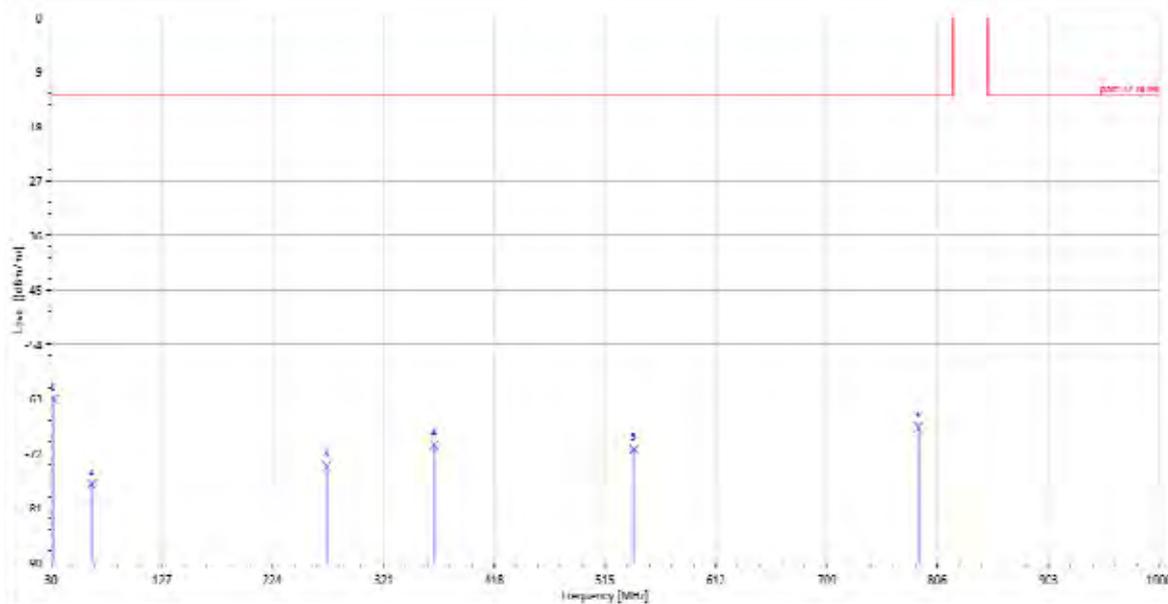
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
60.07	S	-66.81	-62.68	-3.17	-0.96	-13.00	-53.81
97.90	S	-69.37	-65.07	-3.11	-1.19	-13.00	-56.37
184.23	S	-73.91	-76.17	3.87	-1.61	-13.00	-60.91
310.33	S	-66.29	-67.57	3.49	-2.21	-13.00	-53.29
607.15	S	-62.76	-64.32	4.36	-2.80	-13.00	-49.76
718.70	S	-67.54	-69.39	5.10	-3.25	-13.00	-54.54

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ARFCN	:CH 4132	Test Date	:2015-04-09
Operation Band	:HSUPA B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



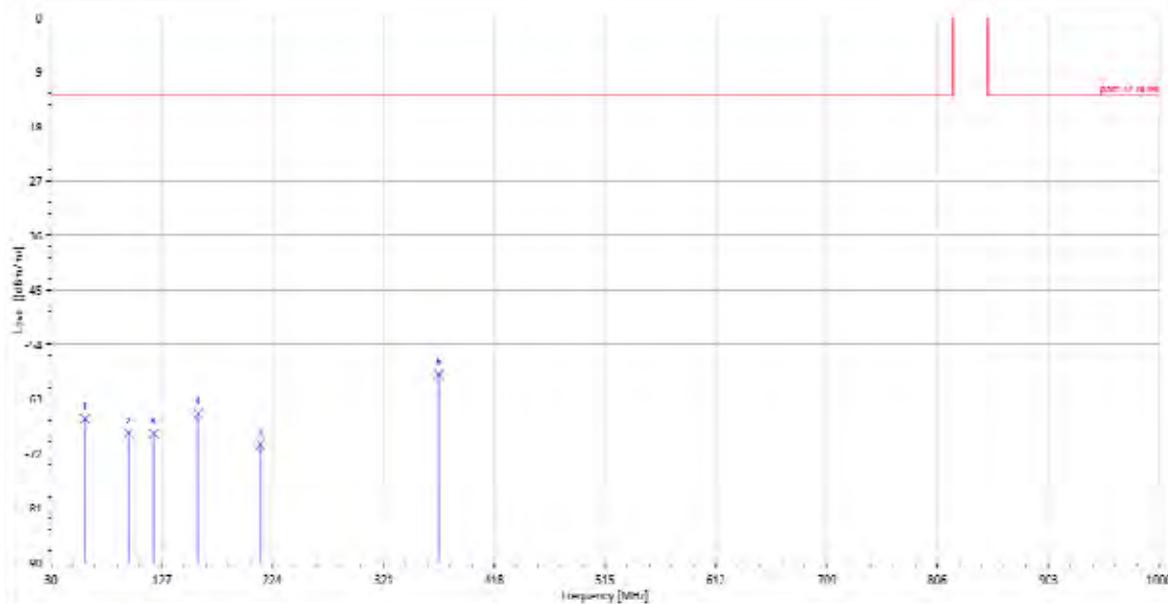
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-63.05	-41.54	-20.82	-0.69	-13.00	-50.05
65.89	S	-77.07	-73.63	-2.45	-0.99	-13.00	-64.07
271.53	S	-74.11	-75.26	3.12	-1.98	-13.00	-61.11
365.62	S	-70.61	-71.67	3.37	-2.31	-13.00	-57.61
540.22	S	-71.32	-72.55	3.98	-2.76	-13.00	-58.32
789.51	S	-67.69	-69.62	5.21	-3.28	-13.00	-54.69

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ARFCN	:CH 4183	Test Date	:2015-04-09
Operation Band	:HSUPA B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
60.07	S	-66.34	-62.21	-3.17	-0.96	-13.00	-53.34
97.90	S	-68.67	-64.37	-3.11	-1.19	-13.00	-55.67
120.21	S	-68.75	-64.22	-3.24	-1.29	-13.00	-55.75
159.01	S	-65.44	-65.21	1.24	-1.47	-13.00	-52.44
213.33	S	-70.52	-72.74	4.00	-1.78	-13.00	-57.52
369.50	S	-58.92	-59.94	3.35	-2.33	-13.00	-45.92

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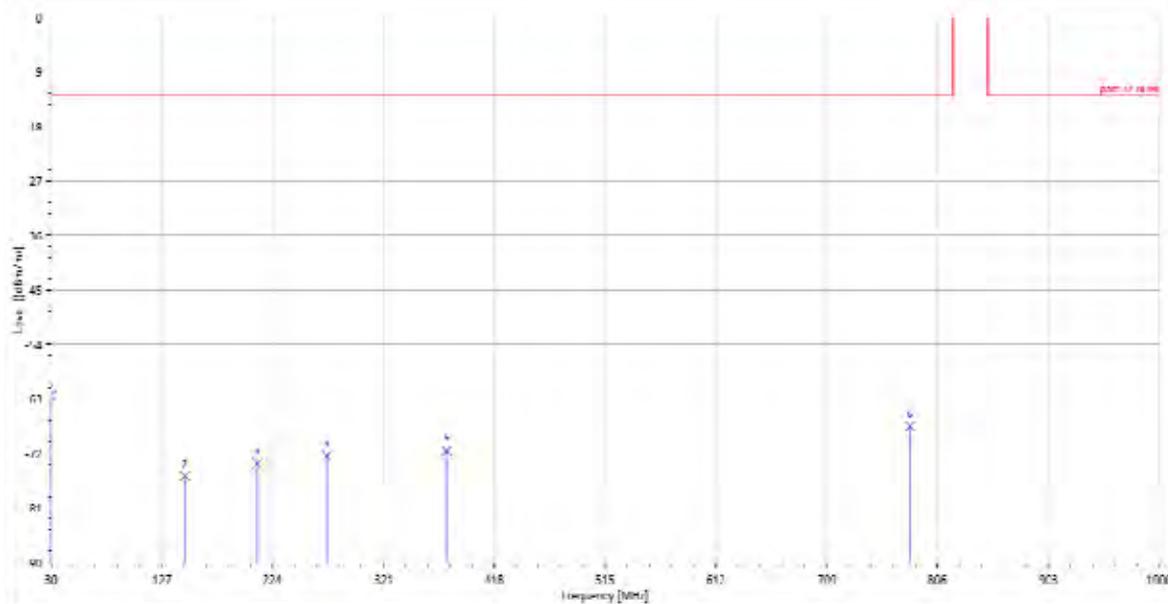
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ARFCN	:CH 4183	Test Date	:2015-04-09
Operation Band	:HSUPA B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



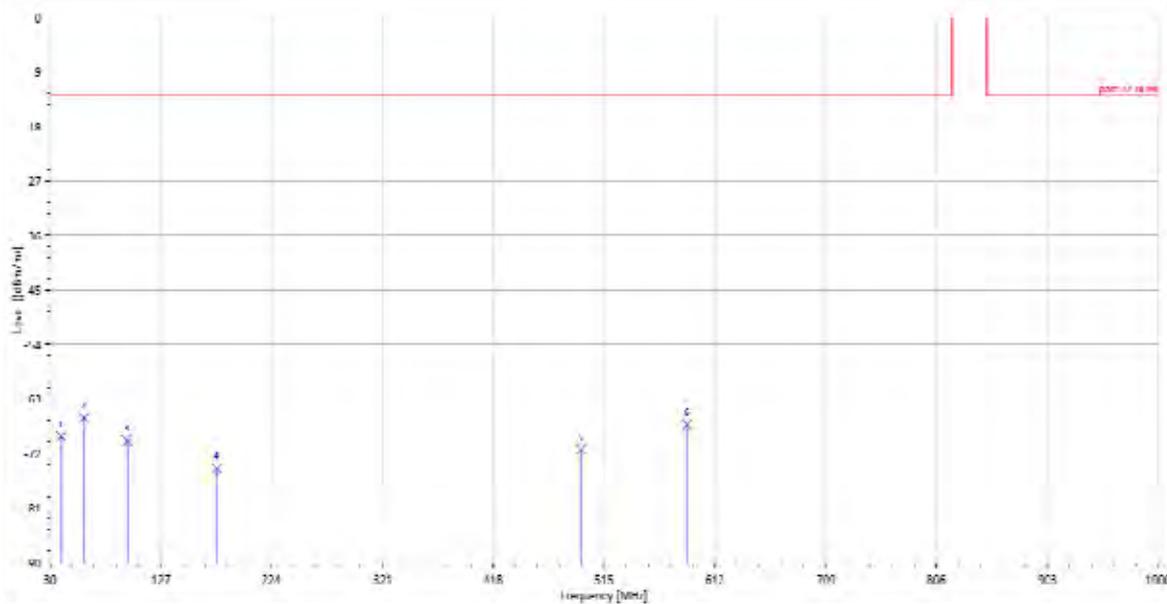
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-62.49	-39.35	-22.50	-0.64	-13.00	-49.49
147.37	S	-75.78	-74.25	-0.11	-1.42	-13.00	-62.78
210.42	S	-73.66	-75.91	4.00	-1.75	-13.00	-60.66
271.53	S	-72.44	-73.59	3.12	-1.98	-13.00	-59.44
376.29	S	-71.58	-72.57	3.31	-2.32	-13.00	-58.58
781.75	S	-67.55	-69.39	5.20	-3.36	-13.00	-54.55

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ARFCN	:CH 4233	Test Date	:2015-04-09
Operation Band	:HSUPA B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



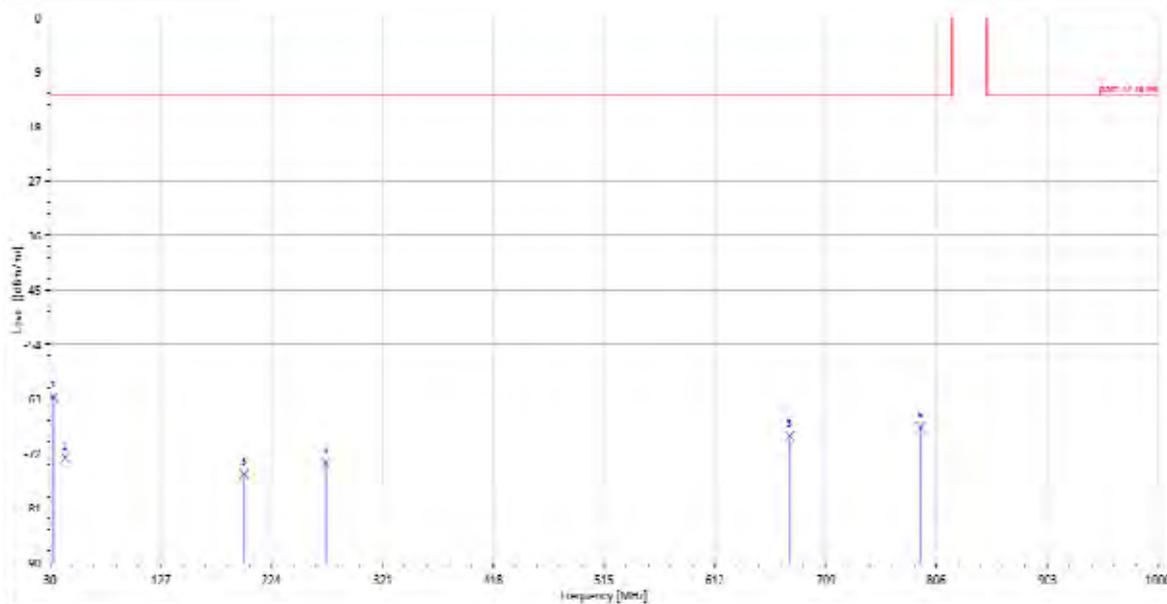
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
39.70	S	-69.22	-54.09	-14.34	-0.79	-13.00	-56.22
60.07	S	-66.16	-62.03	-3.17	-0.96	-13.00	-53.16
97.90	S	-69.95	-65.65	-3.11	-1.19	-13.00	-56.95
176.47	S	-74.51	-76.19	3.28	-1.60	-13.00	-61.51
494.63	S	-71.39	-72.70	3.99	-2.68	-13.00	-58.39
587.75	S	-67.26	-68.71	4.23	-2.78	-13.00	-54.26

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ARFCN	:CH 4233	Test Date	:2015-04-09
Operation Band	:HSUPA B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	S	-62.66	-41.99	-19.97	-0.70	-13.00	-49.66
43.58	S	-72.79	-60.64	-11.36	-0.79	-13.00	-59.79
199.75	S	-75.41	-77.52	3.79	-1.68	-13.00	-62.41
271.53	S	-73.60	-74.74	3.12	-1.98	-13.00	-60.60
677.96	S	-69.08	-70.67	4.87	-3.28	-13.00	-56.08
792.42	S	-67.68	-69.37	5.21	-3.52	-13.00	-54.68

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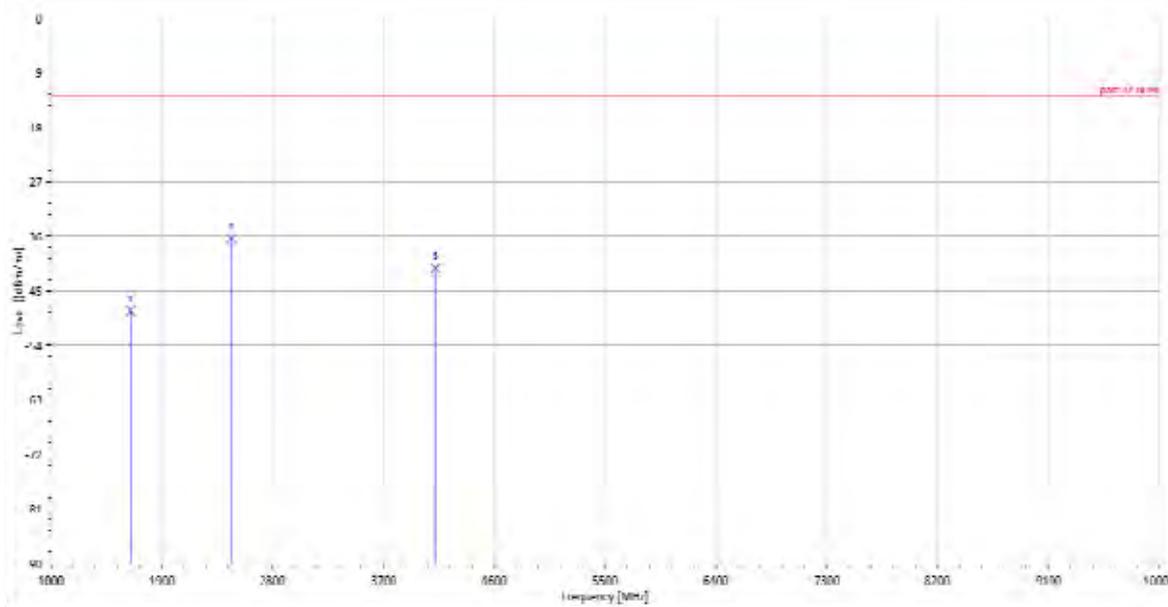
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10.6. Measurement Result (Above 1GHz):

Radiated Spurious Emission Measurement Result: GPRS 850 Mode

ARFCN	:CH 128	Test Date	:2015-04-09
Operation Band	:GPRS 850	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
1648.40	H	-48.34	-46.92	3.69	-5.11	-13.00	-35.34
2472.60	H	-36.38	-34.16	3.60	-5.81	-13.00	-23.38
4121.00	H	-41.28	-40.85	6.75	-7.17	-13.00	-28.28

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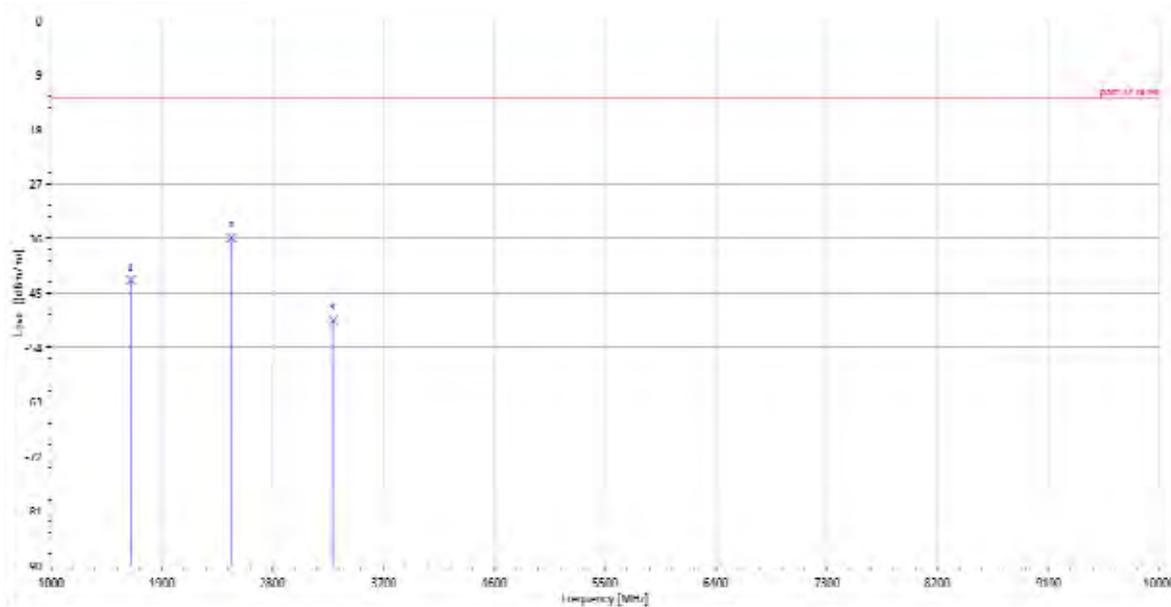
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ARFCN	:CH 128	Test Date	:2015-04-09
Operation Band	:GPRS 850	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
1648.40	H	-42.86	-41.45	3.69	-5.11	-13.00	-29.86
2472.60	H	-35.87	-33.66	3.60	-5.81	-13.00	-22.87
3296.80	H	-49.53	-48.88	5.79	-6.44	-13.00	-36.53

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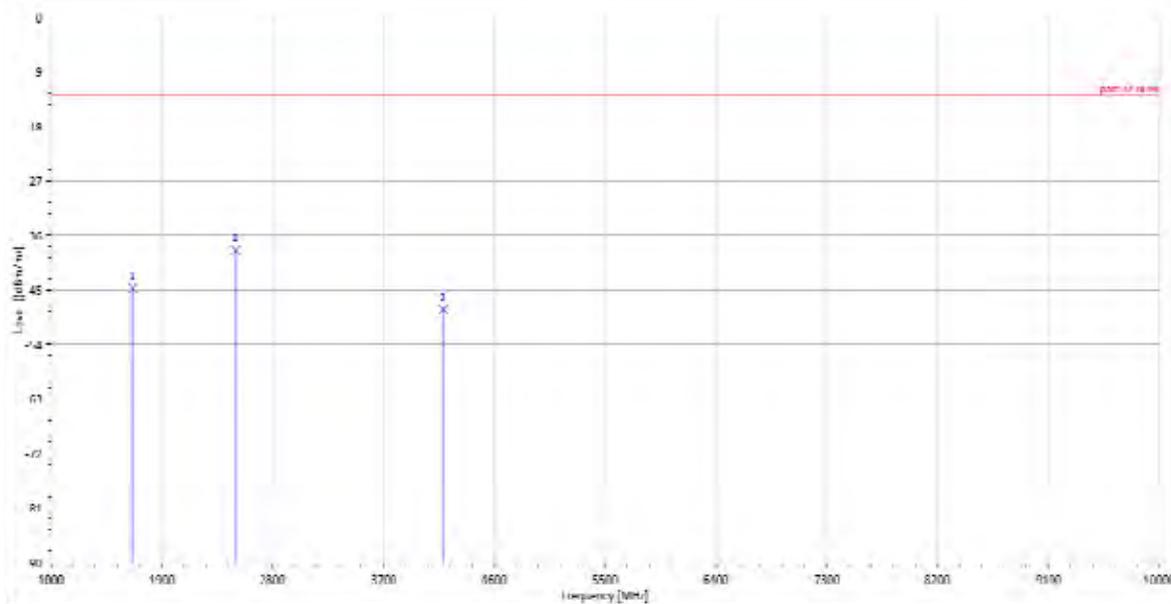
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ARFCN	:CH 190	Test Date	:2015-04-09
Operation Band	:GPRS 850	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

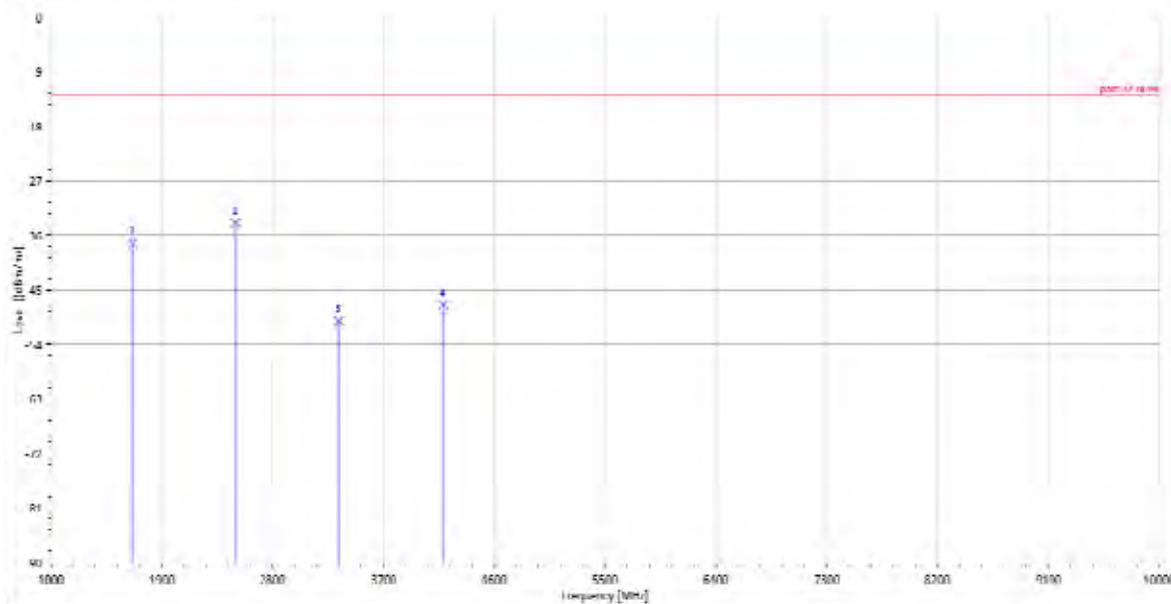


Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
1673.20	H	-44.76	-43.26	3.65	-5.15	-13.00	-31.76
2509.80	H	-38.44	-36.25	3.66	-5.85	-13.00	-25.44
4183.00	H	-48.23	-47.93	6.80	-7.10	-13.00	-35.23

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ARFCN	:CH 190	Test Date	:2015-04-09
Operation Band	:GPRS 850	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

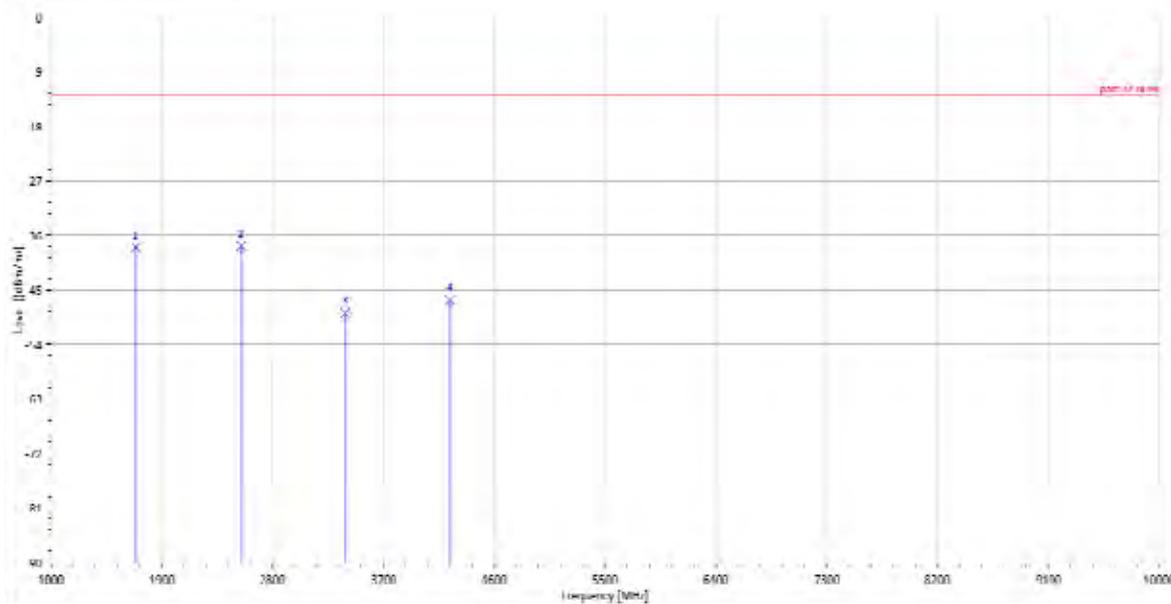


Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
1673.20	H	-37.29	-35.79	3.65	-5.15	-13.00	-24.29
2509.80	H	-33.95	-31.76	3.66	-5.85	-13.00	-20.95
3346.40	H	-50.15	-49.56	5.94	-6.52	-13.00	-37.15
4183.00	H	-47.50	-47.20	6.80	-7.10	-13.00	-34.50

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ARFCN	:CH 251	Test Date	:2015-04-09
Operation Band	:GPRS 850	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

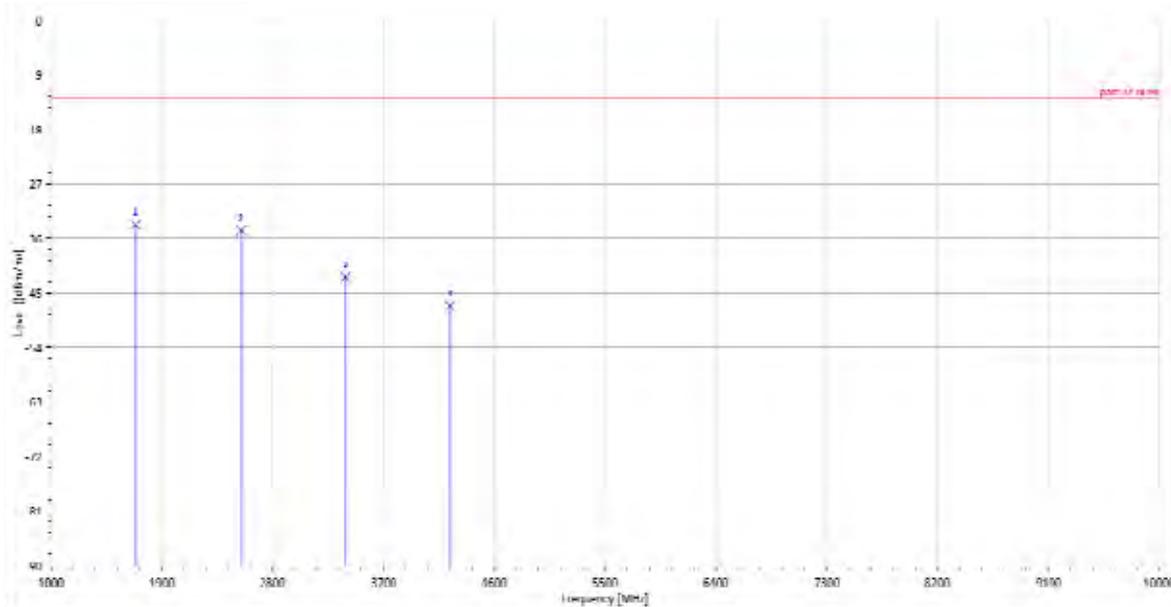


Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
1697.60	H	-38.00	-36.43	3.59	-5.16	-13.00	-25.00
2546.40	H	-37.78	-35.69	3.77	-5.85	-13.00	-24.78
3395.20	H	-48.82	-48.29	6.11	-6.64	-13.00	-35.82
4244.00	H	-46.71	-46.27	6.84	-7.29	-13.00	-33.71

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ARFCN	:CH 251	Test Date	:2015-04-09
Operation Band	:GPRS 850	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



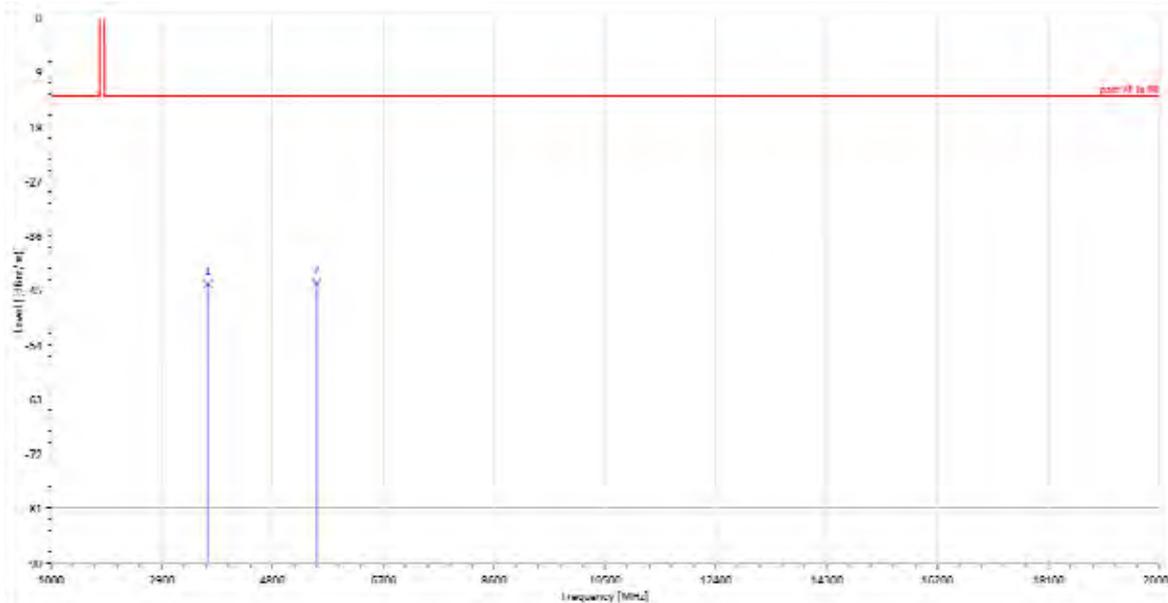
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
1697.60	H	-33.77	-32.20	3.59	-5.16	-13.00	-20.77
2546.40	H	-34.71	-32.62	3.77	-5.85	-13.00	-21.71
3395.20	H	-42.39	-41.86	6.11	-6.64	-13.00	-29.39
4244.00	H	-47.19	-46.74	6.84	-7.29	-13.00	-34.19

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

ARFCN	:CH 512	Test Date	:2015-04-09
Operation Band	:GPRS 1900	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

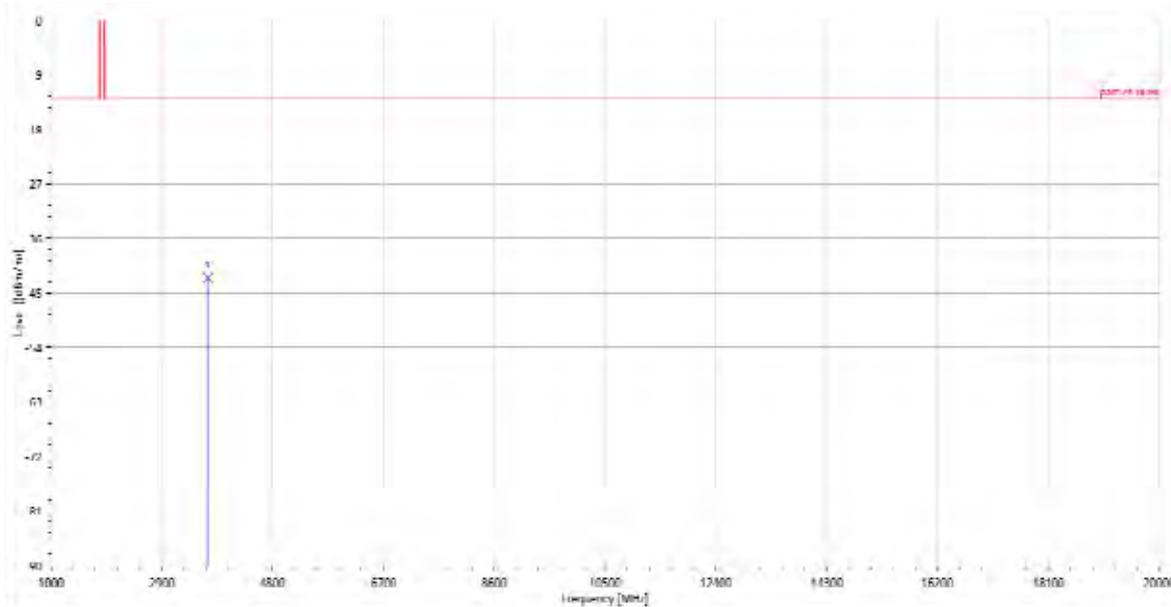


Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3700.40	H	-43.96	-45.71	8.68	-6.93	-13.00	-30.95
5550.60	H	-43.72	-46.26	10.32	-7.77	-13.00	-30.71

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ARFCN	:CH 512	Test Date	:2015-04-09
Operation Band	:GPRS 1900	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

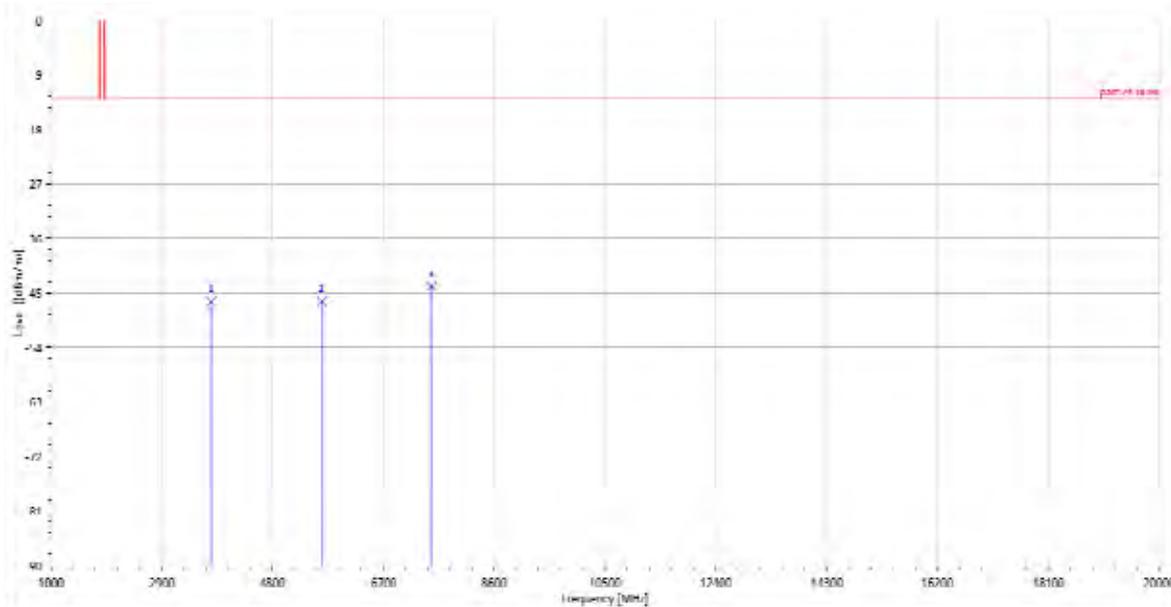


Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
3700.40	H	-42.49	-44.24	8.68	-6.93	-13.00	-29.48

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ARFCN	:CH 661	Test Date	:2015-04-09
Operation Band	:GPRS 1900	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

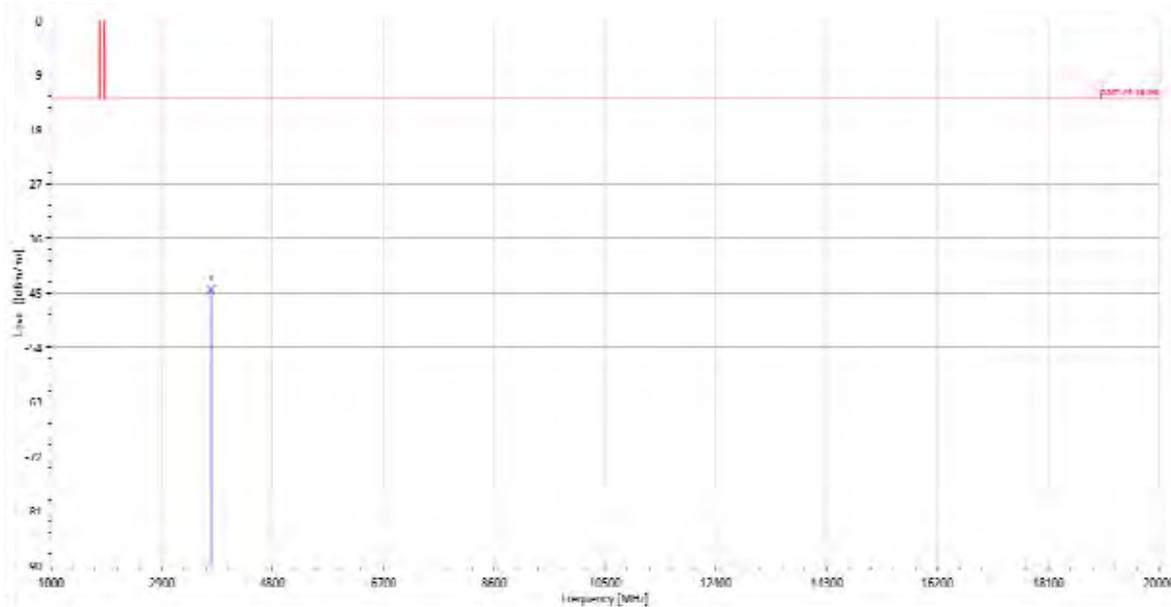


Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3760.00	H	-46.45	-48.32	8.70	-6.83	-13.00	-33.44
5640.00	H	-46.43	-48.82	10.36	-7.97	-13.00	-33.42
7520.00	H	-43.98	-45.81	11.63	-9.80	-13.00	-30.97

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ARFCN	:CH 661	Test Date	:2015-04-09
Operation Band	:GPRS 1900	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



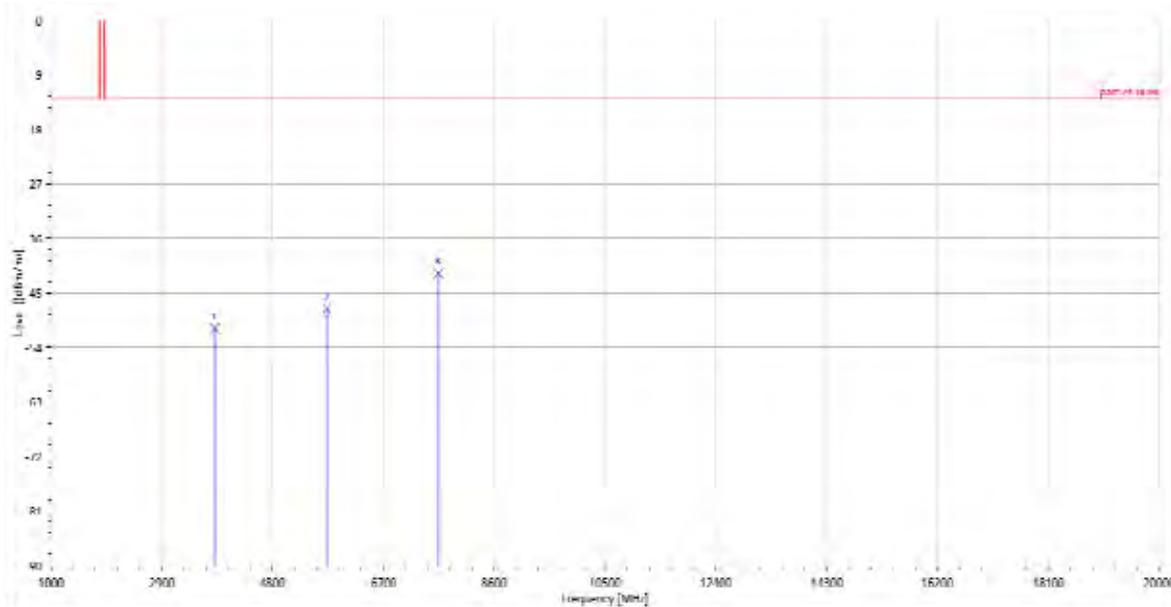
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
3760.00	H	-44.51	-46.39	8.70	-6.83	-13.00	-31.50

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ARFCN	:CH 810	Test Date	:2015-04-09
Operation Band	:GPRS 1900	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

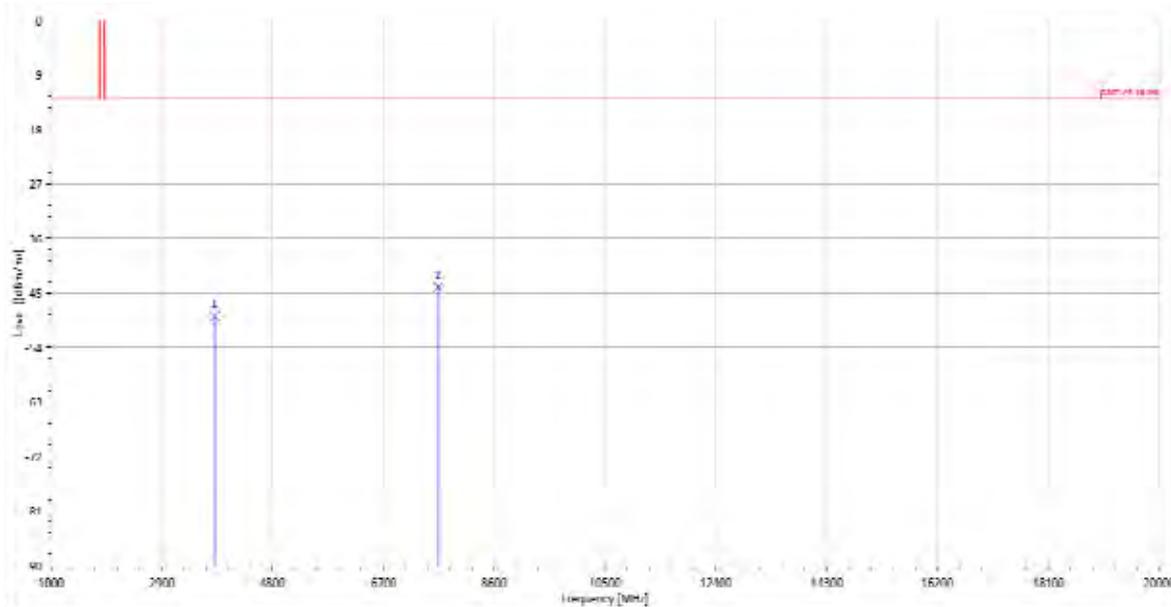


Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3819.60	H	-50.91	-52.72	8.73	-6.92	-13.00	-37.90
5729.40	H	-47.63	-49.83	10.39	-8.19	-13.00	-34.62
7639.40	H	-41.82	-43.59	11.74	-9.97	-13.00	-28.81

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ARFCN	:CH 810	Test Date	:2015-04-09
Operation Band	:GPRS 1900	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



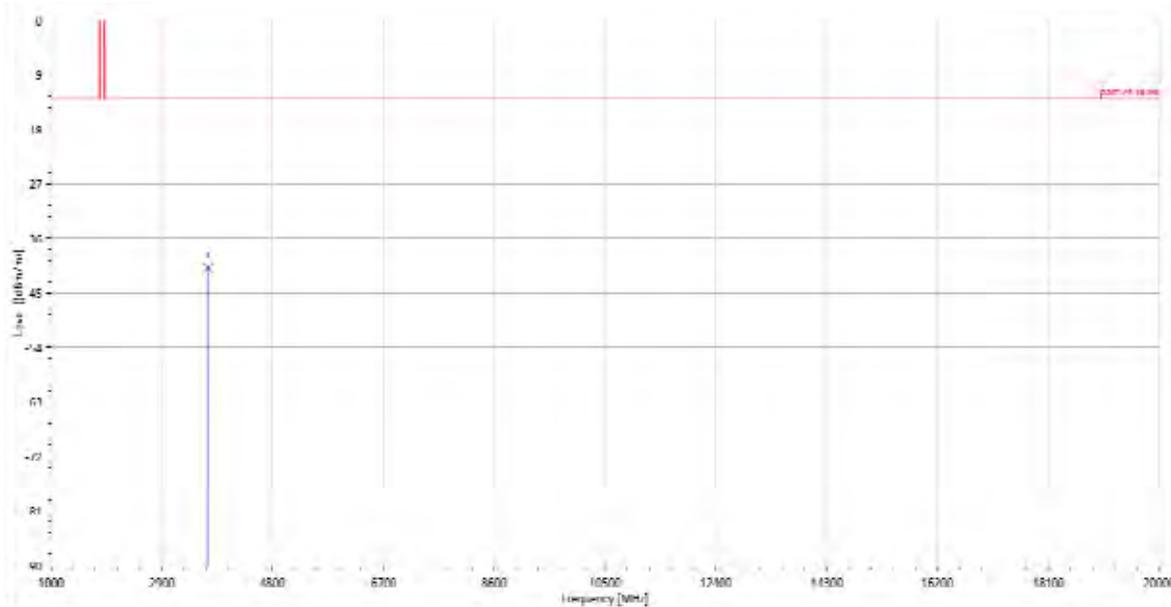
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
3819.60	H	-48.89	-50.69	8.73	-6.92	-13.00	-35.88
7639.20	H	-44.05	-45.83	11.74	-9.97	-13.00	-31.04

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Radiated Spurious Emission Measurement Result: WCDMA II Mode

ARFCN	:CH 9262	Test Date	:2015-04-09
Operation Band	:WCDMA B2	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



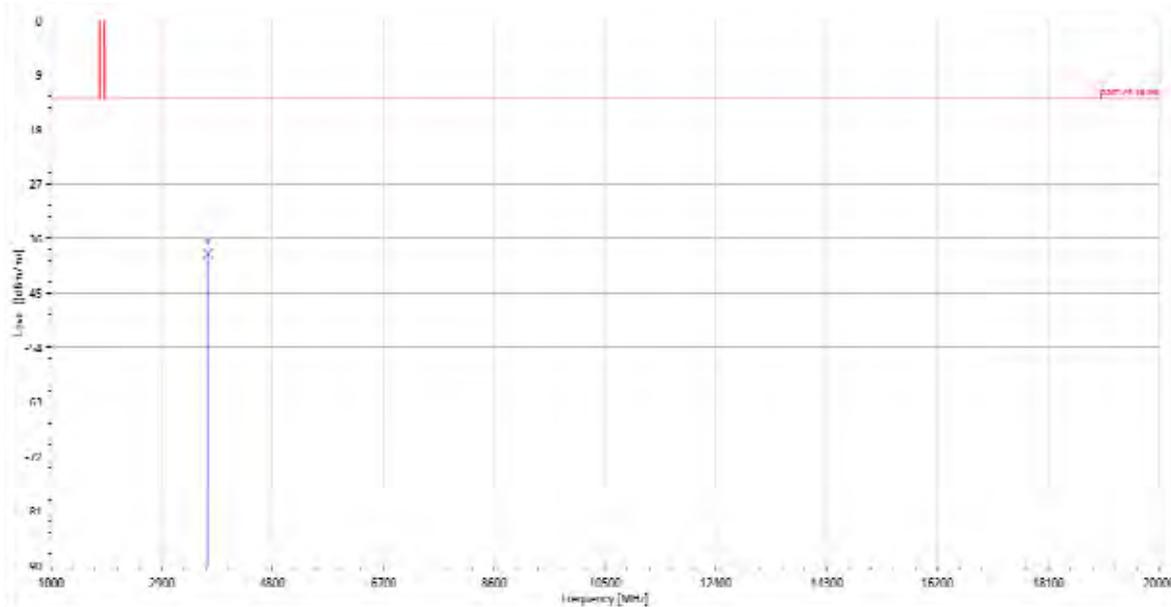
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
3704.80	H	-40.87	-42.62	8.68	-6.93	-13.00	-27.86

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ARFCN	:CH 9262	Test Date	:2015-04-09
Operation Band	:WCDMA B2	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

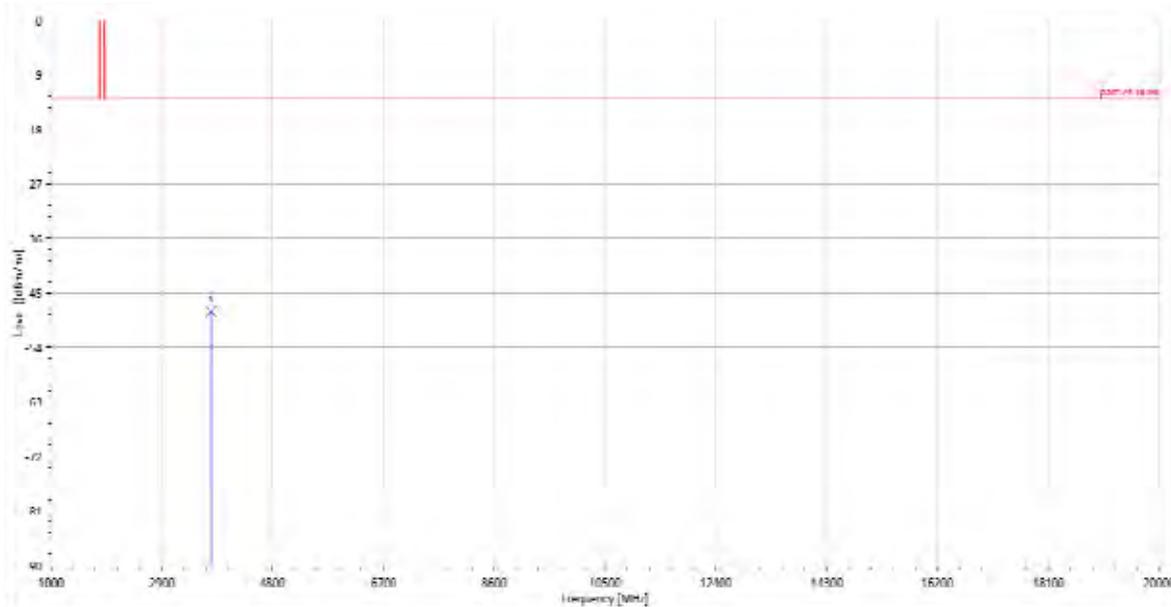


Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
3704.80	H	-38.57	-40.32	8.68	-6.93	-13.00	-25.56

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ARFCN	:CH 9400	Test Date	:2015-04-09
Operation Band	:WCDMA B2	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Vito
Operation Mode	:TX MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plane		



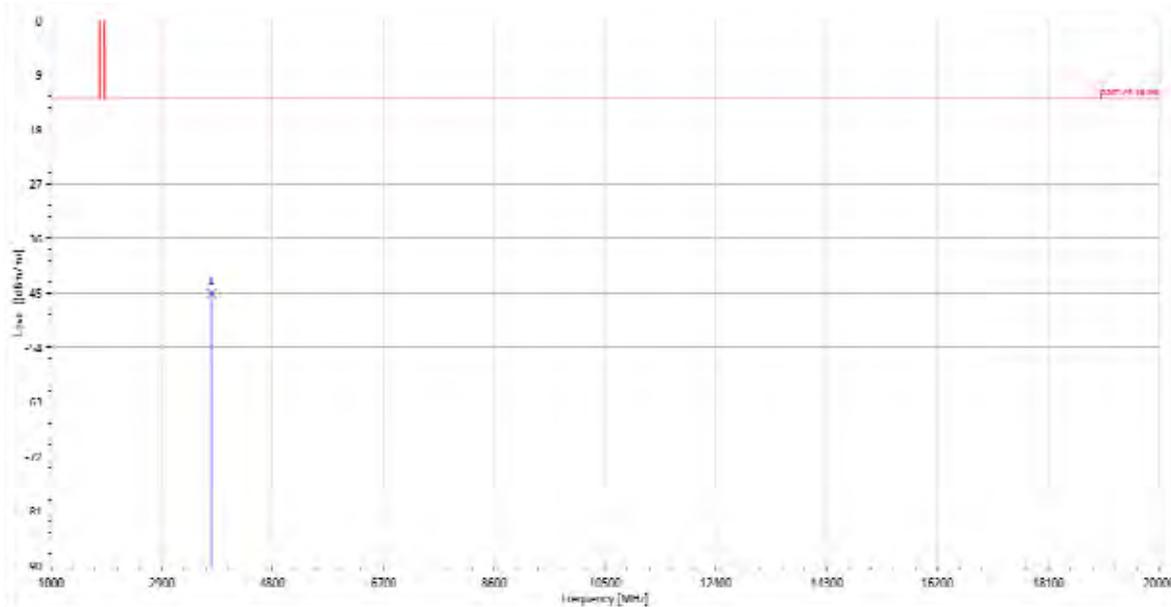
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
3760.00	H	-48.06	-49.93	8.70	-6.83	-13.00	-35.05

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ARFCN	:CH 9400	Test Date	:2015-04-09
Operation Band	:WCDMA B2	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



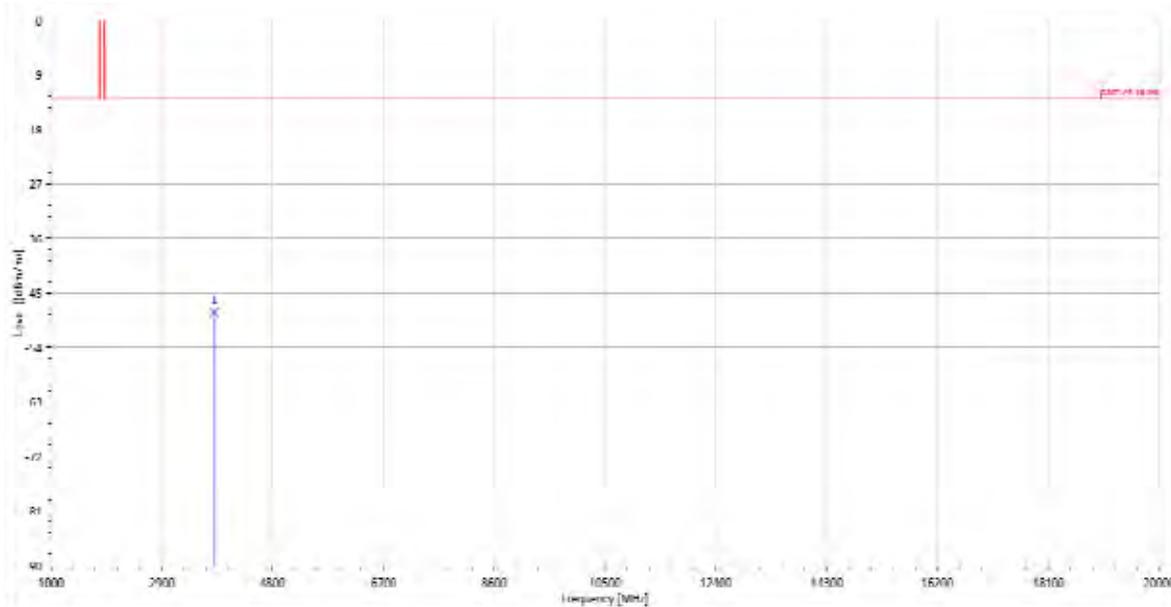
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
3760.00	H	-45.09	-46.95	8.70	-6.84	-13.00	-32.07

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ARFCN	:CH 9538	Test Date	:2015-04-09
Operation Band	:WCDMA B2	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

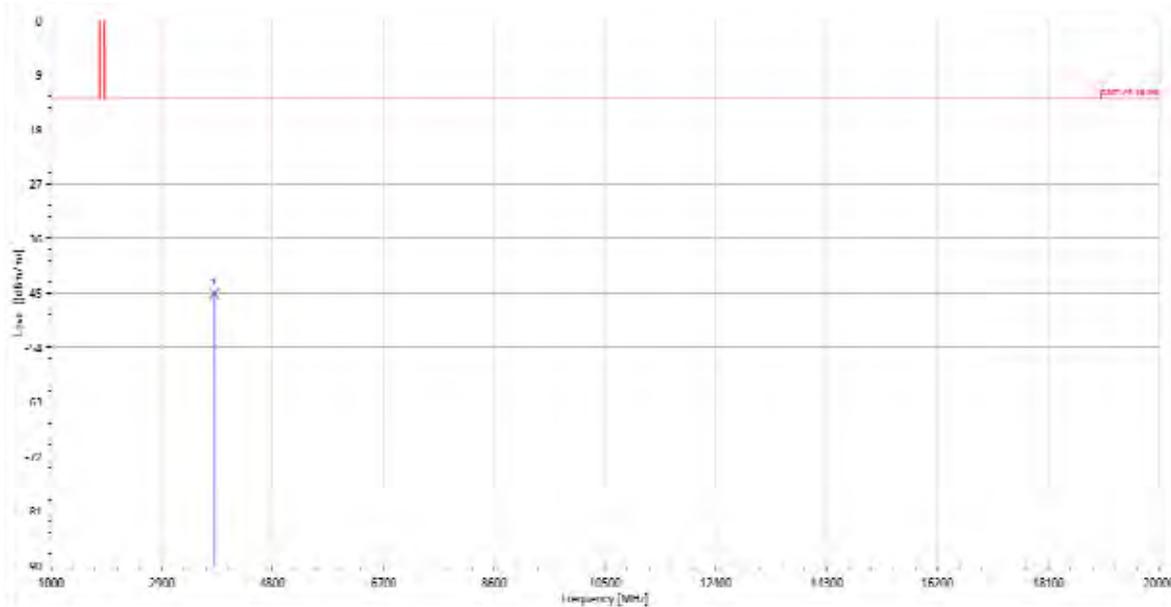


Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3815.20	H	-48.23	-50.04	8.72	-6.92	-13.00	-35.22

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ARFCN	:CH 9538	Test Date	:2015-04-09
Operation Band	:WCDMA B2	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



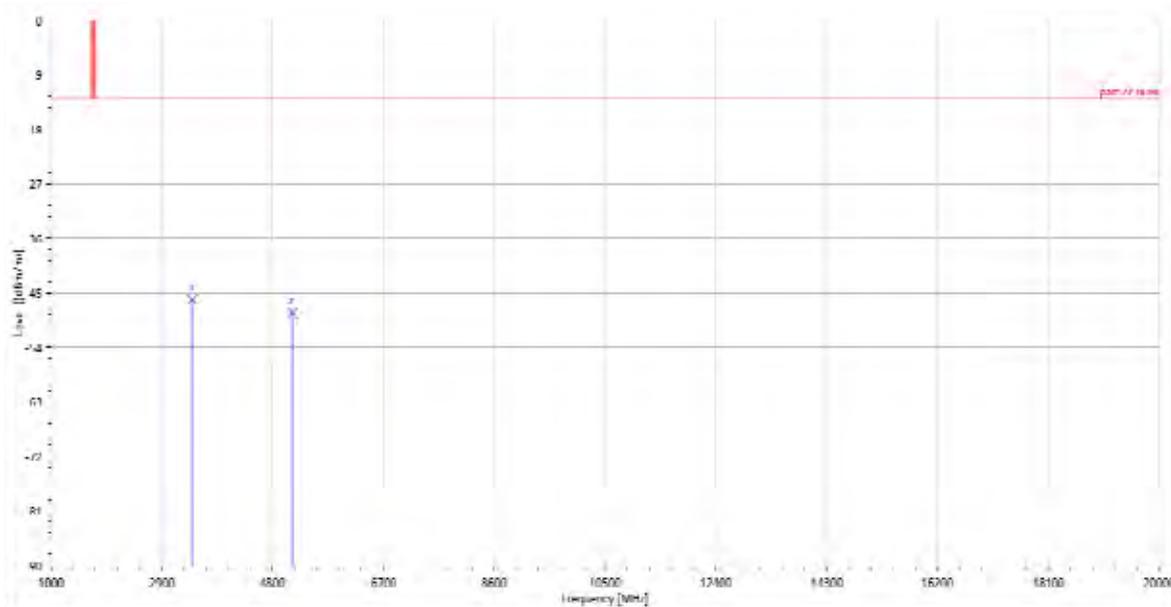
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3815.20	H	-45.15	-46.95	8.72	-6.92	-13.00	-32.14

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Radiated Spurious Emission Measurement Result: HSDPA IV Mode

ARFCN	:CH 1312	Test Date	:2015-04-09
Operation Band	:HSDPA B4	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

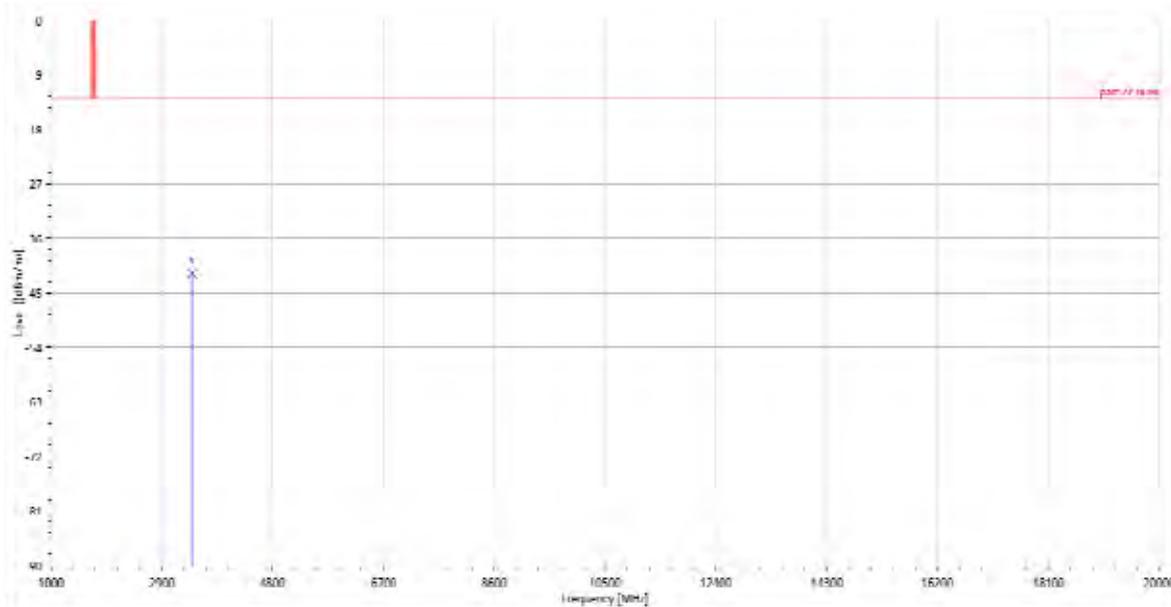


Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3424.80	H	-46.13	-47.82	8.35	-6.66	-13.00	-33.12
5137.20	H	-48.35	-51.02	10.08	-7.42	-13.00	-35.34

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ARFCN	:CH 1312	Test Date	:2015-04-09
Operation Band	:HSDPA B4	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



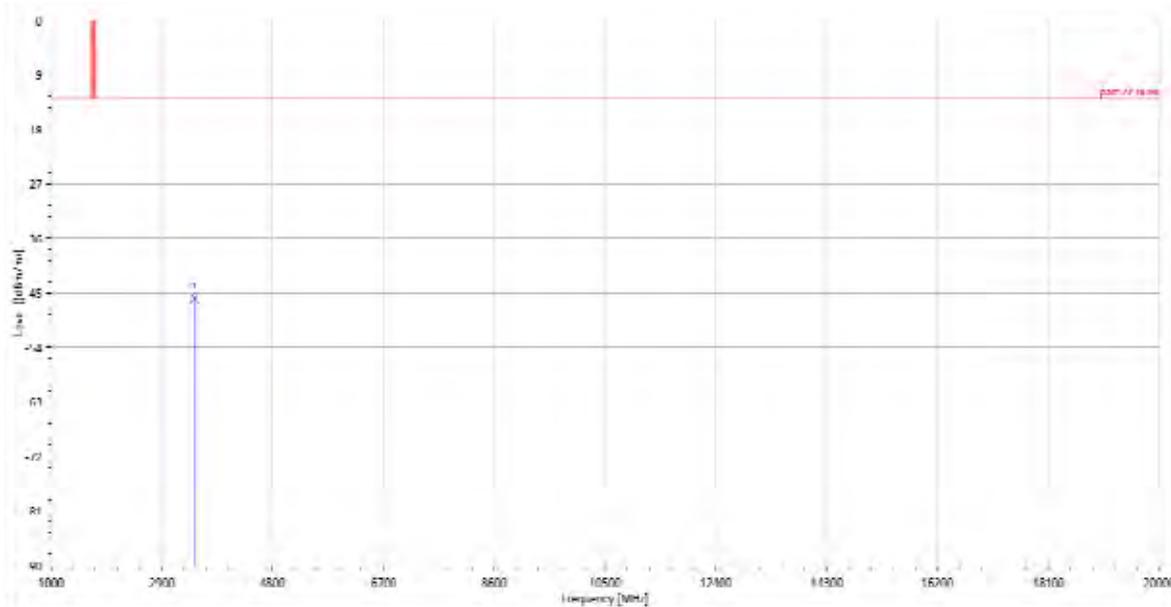
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
3424.80	H	-41.81	-43.50	8.35	-6.66	-13.00	-28.80

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ARFCN	:CH 1413	Test Date	:2015-04-09
Operation Band	:HSDPA B4	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Vito
Operation Mode	:TX MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plane		



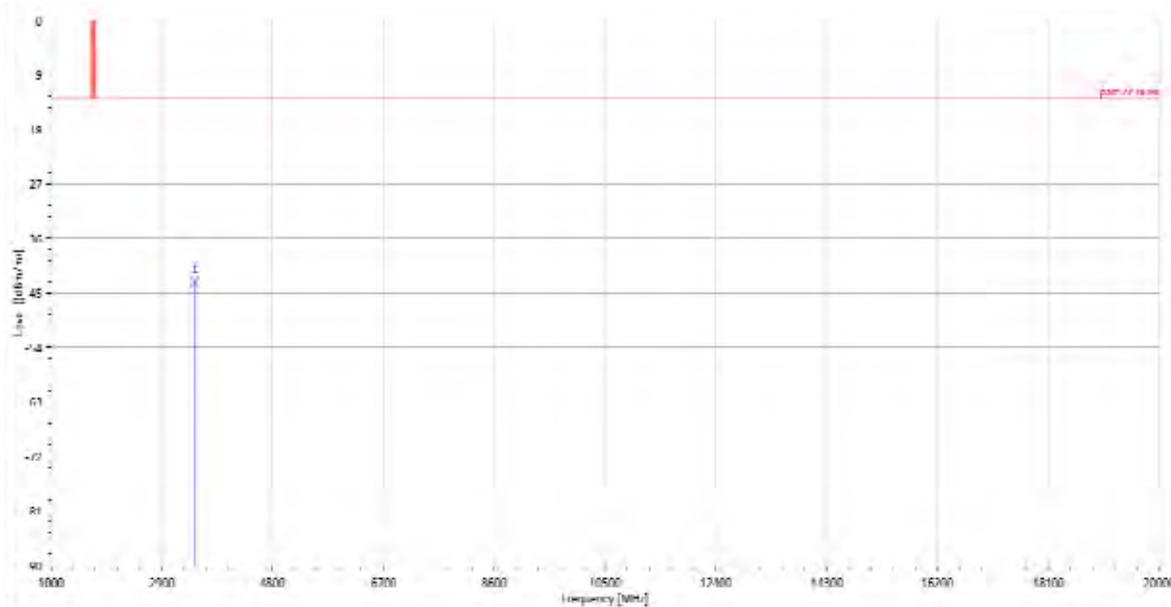
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
3465.20	H	-45.86	-47.72	8.49	-6.63	-13.00	-32.85

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ARFCN	:CH 1413	Test Date	:2015-04-09
Operation Band	:HSDPA B4	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



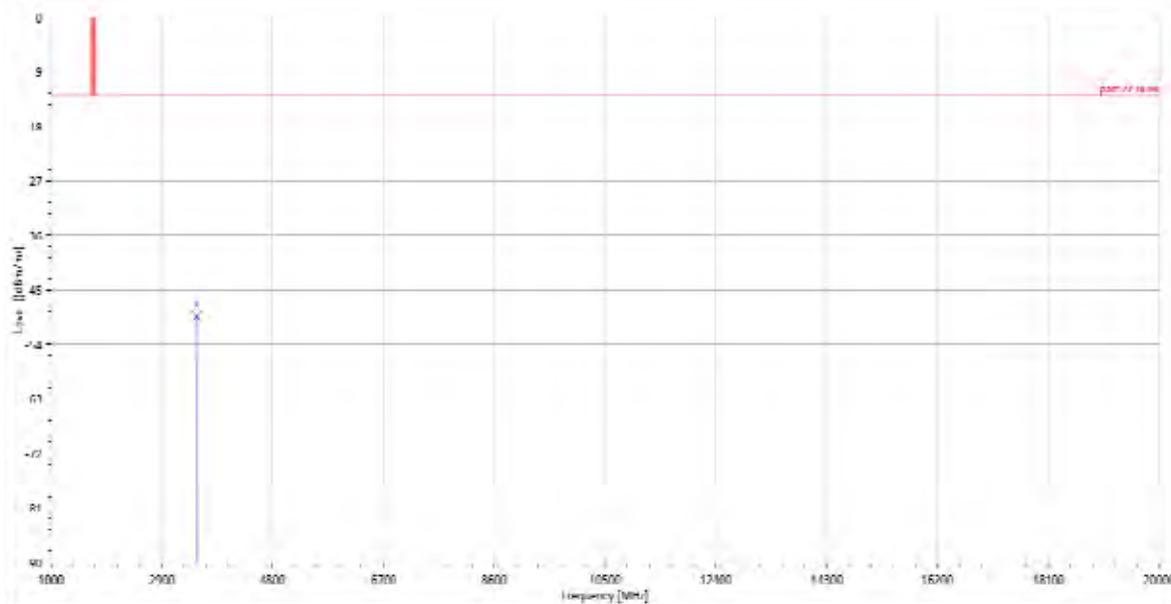
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3465.20	H	-43.34	-45.20	8.49	-6.63	-13.00	-30.33

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ARFCN	:CH 1513	Test Date	:2015-04-09
Operation Band	:HSDPA B4	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



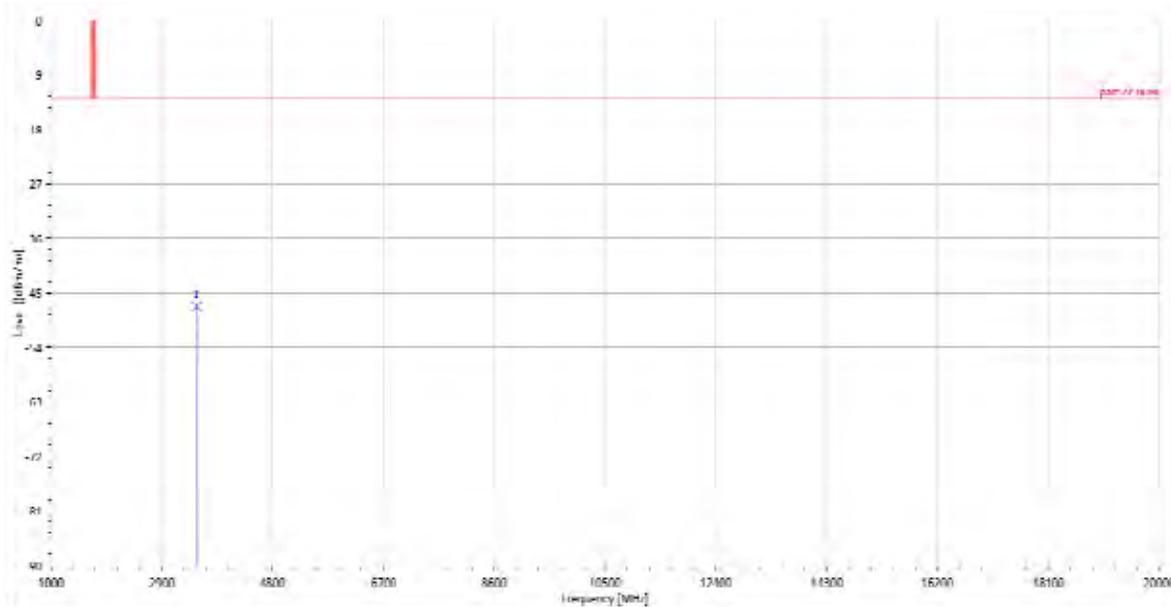
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
3505.20	H	-49.35	-51.19	8.60	-6.76	-13.00	-36.34

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ARFCN	:CH 1513	Test Date	:2015-04-09
Operation Band	:HSDPA B4	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:H 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
3505.20	H	-47.23	-49.07	8.60	-6.76	-13.00	-34.22

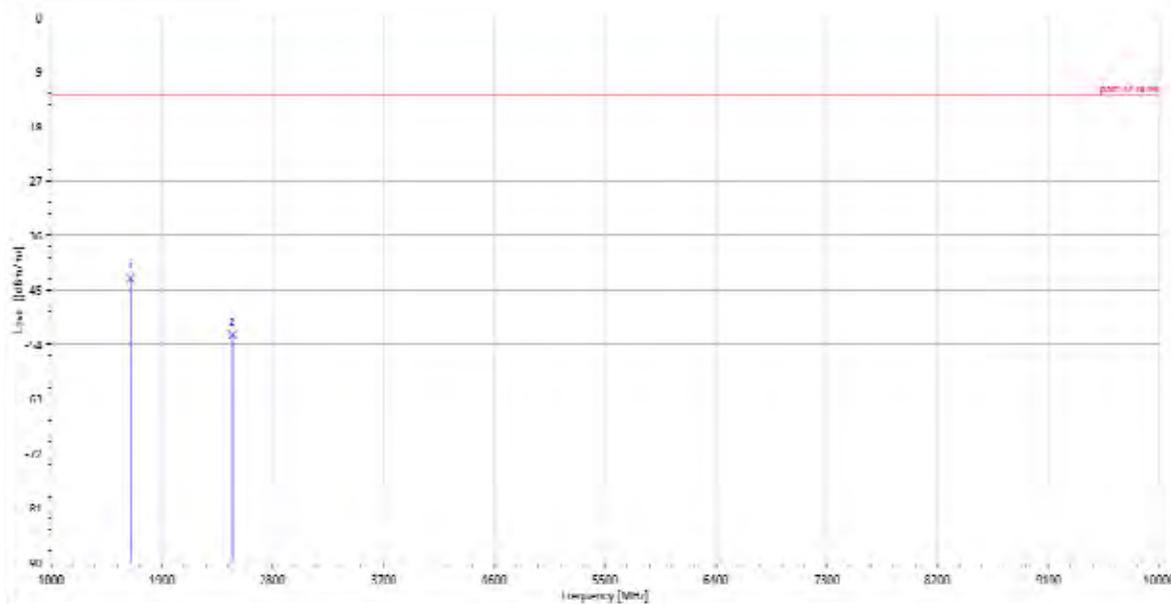
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Radiated Spurious Emission Measurement Result: HSUPA V Mode

ARFCN	:CH 4132	Test Date	:2015-04-09
Operation Band	:HSUPA B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

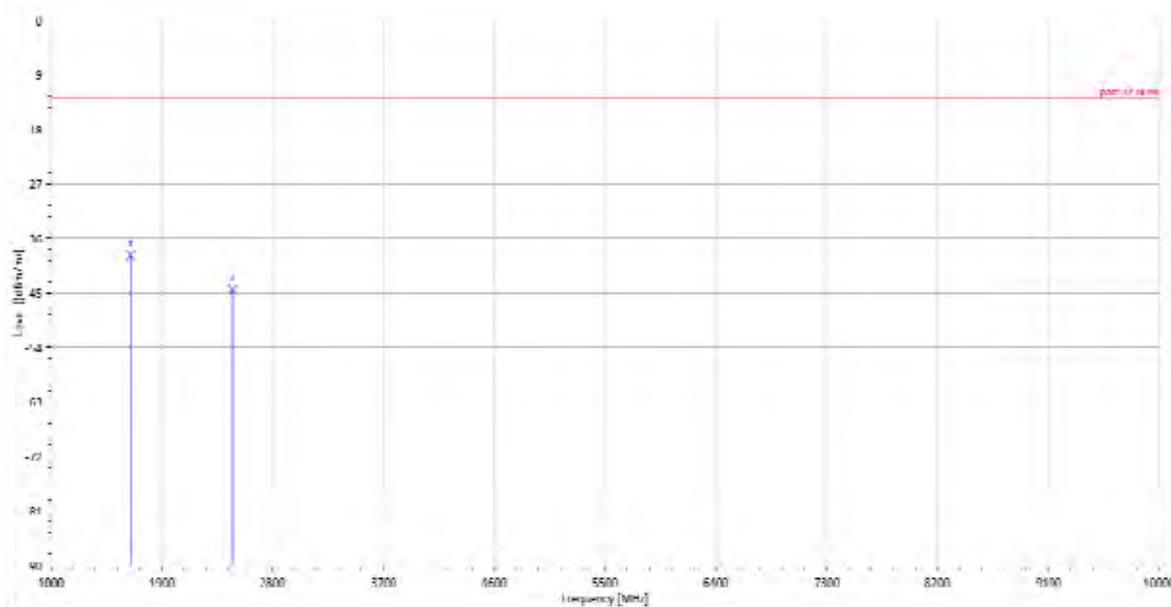


Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
1652.80	H	-43.06	-41.65	3.69	-5.11	-13.00	-30.06
2479.20	H	-52.40	-50.18	3.61	-5.83	-13.00	-39.40

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ARFCN	:CH 4132	Test Date	:2015-04-09
Operation Band	:HSUPA B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



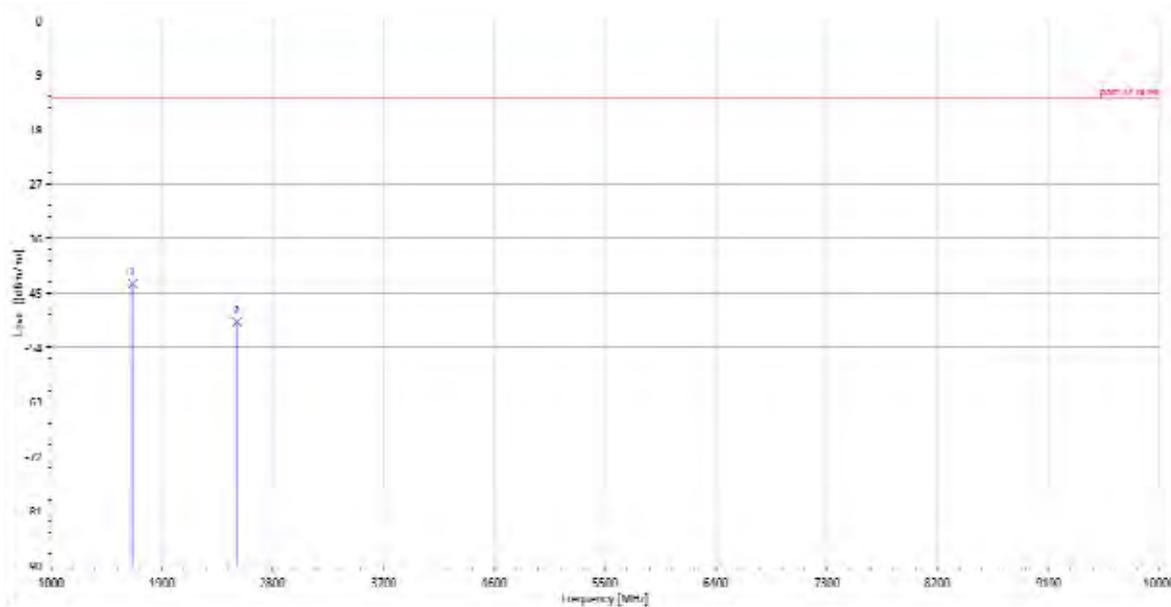
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
1652.80	H	-38.82	-37.41	3.69	-5.11	-13.00	-25.82
2479.20	H	-44.52	-42.30	3.61	-5.83	-13.00	-31.52

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ARFCN	:CH 4183	Test Date	:2015-04-09
Operation Band	:HSUPA B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

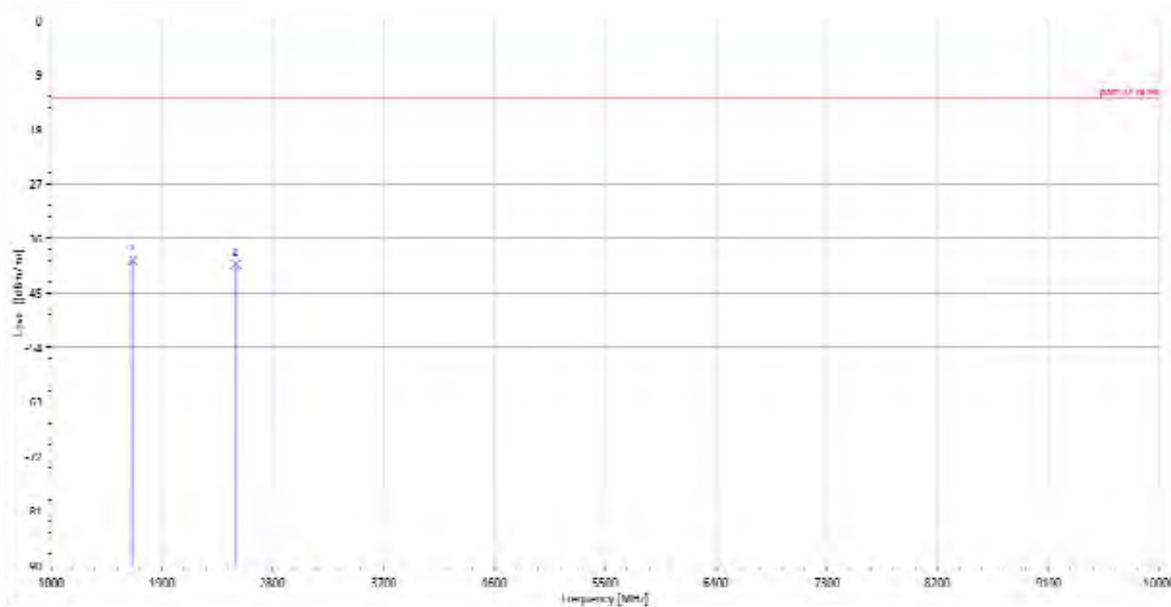


Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
1673.20	H	-43.51	-42.01	3.65	-5.15	-13.00	-30.51
2509.80	H	-49.86	-47.70	3.68	-5.83	-13.00	-36.86

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ARFCN	:CH 4183	Test Date	:2015-04-09
Operation Band	:HSUPA B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

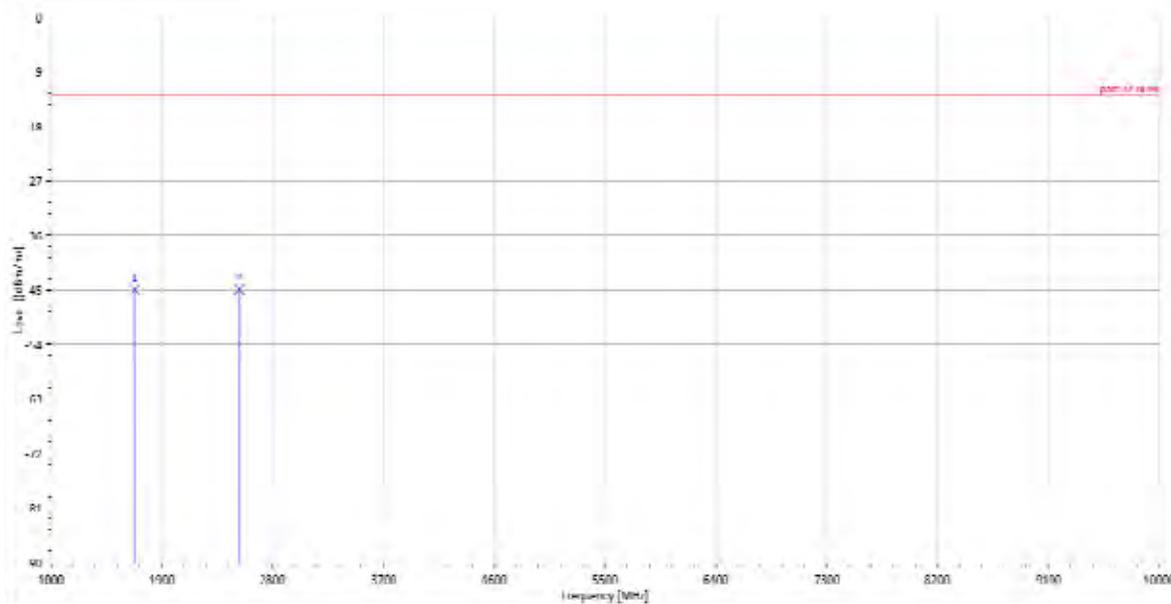


Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
1673.20	H	-39.60	-38.10	3.65	-5.15	-13.00	-26.60
2509.80	H	-40.23	-38.06	3.68	-5.85	-13.00	-27.25

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ARFCN	:CH 4233	Test Date	:2015-04-09
Operation Band	:HSUPA B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



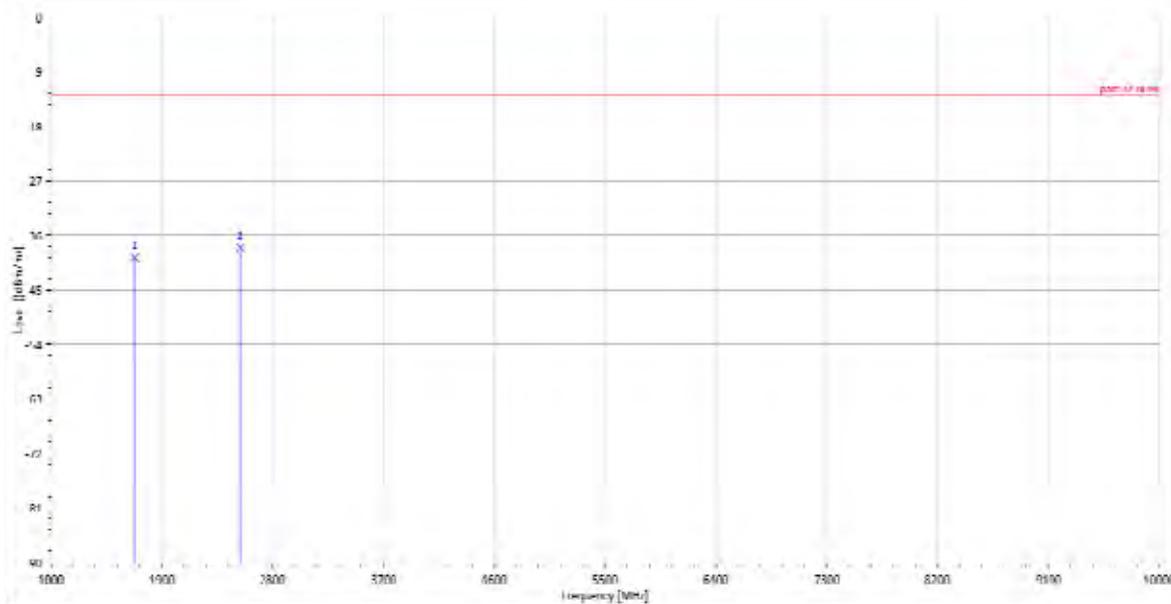
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
1693.20	H	-45.00	-43.49	3.61	-5.12	-13.00	-32.00
2539.80	H	-44.94	-42.81	3.72	-5.85	-13.00	-31.94

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ARFCN	:CH 4233	Test Date	:2015-04-09
Operation Band	:HSUPA B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
1693.20	H	-39.67	-38.15	3.61	-5.12	-13.00	-26.67
2539.80	H	-38.10	-35.97	3.72	-5.85	-13.00	-25.08

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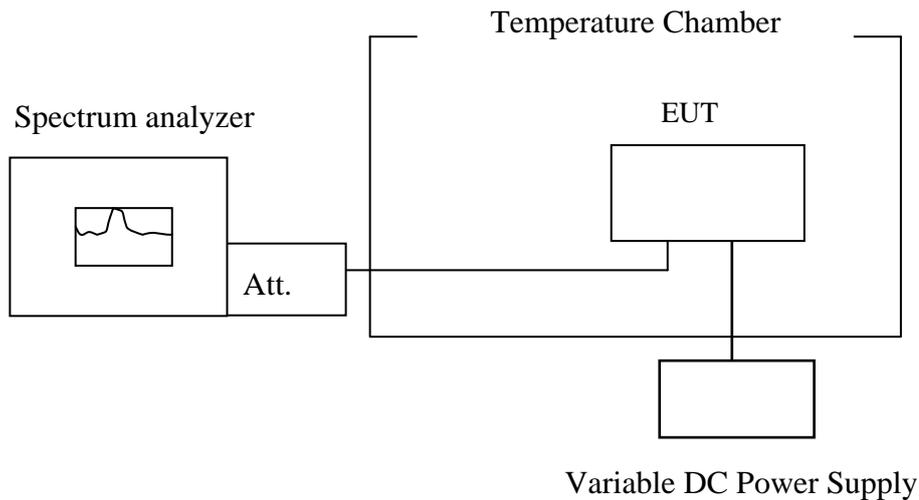
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11. FREQUENCY STABILITY MEASUREMENT

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 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	04/23/2014	04/22/2015
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/18/2014	06/17/2015
DC Block	PASTERNAK	PE8210	RF29	12/19/2014	12/18/2015
Splitter	RF-LAMBAD	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	05/31/2014	05/30/2015

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11.5. Measurement Result:

FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.4	20	836599995	-2	2091
3.8	20	836599997	0	2091
3.3	20	836599999	2	2091
3.3 (End point)	20	836599999	2	2091

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	50	836600001	4	2091
3.8	40	836600005	8	2091
3.8	30	836600004	7	2091
3.8	20	836599997	0	2091
3.8	10	836600005	8	2091
3.8	0	836599997	0	2091
3.8	-10	836599996	-1	2091
3.8	-20	836599999	2	2091
3.8	-30	836599998	1	2091

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.4	20	1879999999	2	4700
3.8	20	1879999997	0	4700
3.3	20	1879999996	-1	4700
3.3 (End point)	20	1879999996	-1	4700

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	50	1880000004	7	4700
3.8	40	1880000005	8	4700
3.8	30	1880000003	6	4700
3.8	20	1879999997	0	4700
3.8	10	1879999999	2	4700
3.8	0	1879999997	0	4700
3.8	-10	1879999995	-2	4700
3.8	-20	1879999996	-1	4700
3.8	-30	1879999999	2	4700

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.4	20	1879999999	3	4700
3.8	20	1879999996	0	4700
3.3	20	1879999997	1	4700
3.3 (End point)	20	1879999997	1	4700

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: WCDMA II Mid Channel 1880				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	50	1880000003	7	4700
3.8	40	1880000004	8	4700
3.8	30	1880000003	7	4700
3.8	20	1879999996	0	4700
3.8	10	1880000005	9	4700
3.8	0	1880000004	8	4700
3.8	-10	1879999998	2	4700
3.8	-20	1879999994	-2	4700
3.8	-30	1879999997	1	4700

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.4	20	173259997	0	4331
3.8	20	173259997	0	4331
3.3	20	173259996	-1	4331
3.3 (End point)	20	173259996	-1	4331

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	50	173260002	5	4331
3.8	40	173260004	7	4331
3.8	30	173259999	2	4331
3.8	20	173259997	0	4331
3.8	10	173259997	0	4331
3.8	0	173259996	-1	4331
3.8	-10	173259997	0	4331
3.8	-20	173259996	-1	4331
3.8	-30	173259999	2	4331

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.4	20	836599995	-1	2091
3.8	20	836599996	0	2091
3.3	20	836599994	-2	2091
3.3 (End point)	20	836599994	-2	2091

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	50	836600001	5	2091
3.8	40	836600003	7	2091
3.8	30	836600004	8	2091
3.8	20	836599996	0	2091
3.8	10	836600006	10	2091
3.8	0	836599996	0	2091
3.8	-10	836599997	1	2091
3.8	-20	836599996	0	2091
3.8	-30	836599996	0	2091

Note: The battery is rated 3.8Vdc.

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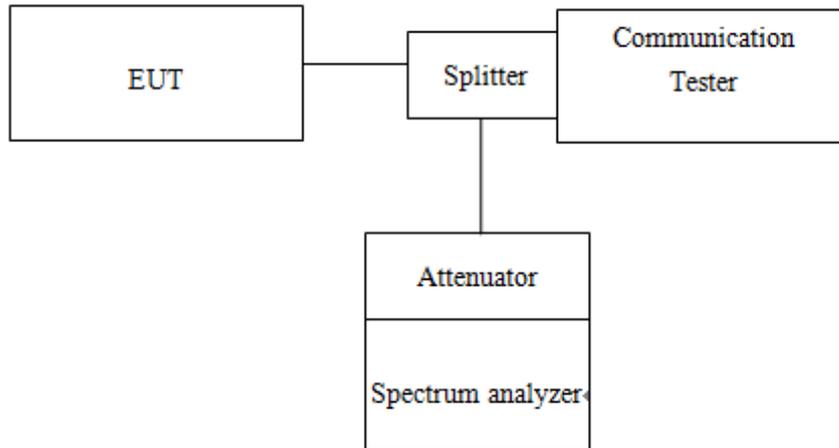
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12. PEAK TO AVERAGE RATIO

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 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	04/23/2014	04/22/2015
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/18/2014	06/17/2015
DC Block	PASTERNAK	PE8210	RF29	12/19/2014	12/18/2015
Splitter	RF-LAMBAD	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	05/31/2014	05/30/2015

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12.5. Measurement Result

Tabular Results:

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		GPRS	EDGE
824.20	128	9.77	12.83
836.60	190	9.94	11.95
848.80	251	9.53	12.84

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		GPRS	EDGE
1850.20	512	9.77	12.39
1880.00	661	10.08	12.70
1909.80	810	10.34	12.40

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Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA II	HSDPA II	HSUPA II
1850.20	9262	3.09	4.12	3.71
1880.00	9400	3.10	3.80	3.91
1909.80	9538	2.94	3.68	3.61

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA IV	HSDPA IV	HSUPA IV
1712.4	1312	3.07	3.77	3.78
1732.6	1413	3.08	4.10	3.90
1752.6	1513	3.04	3.72	3.87

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA V	HSDPA V	HSUPA V
826.40	4132	3.03	3.76	3.78
836.60	4183	2.98	3.74	3.53
846.60	4233	2.91	3.62	3.59

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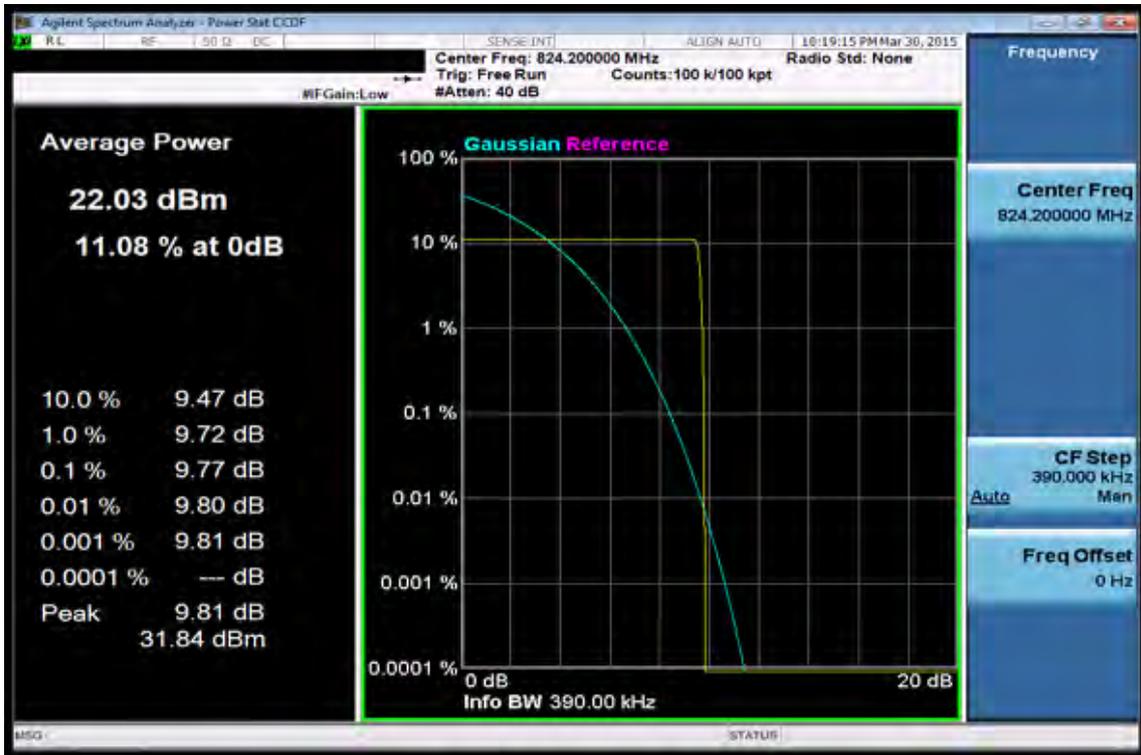
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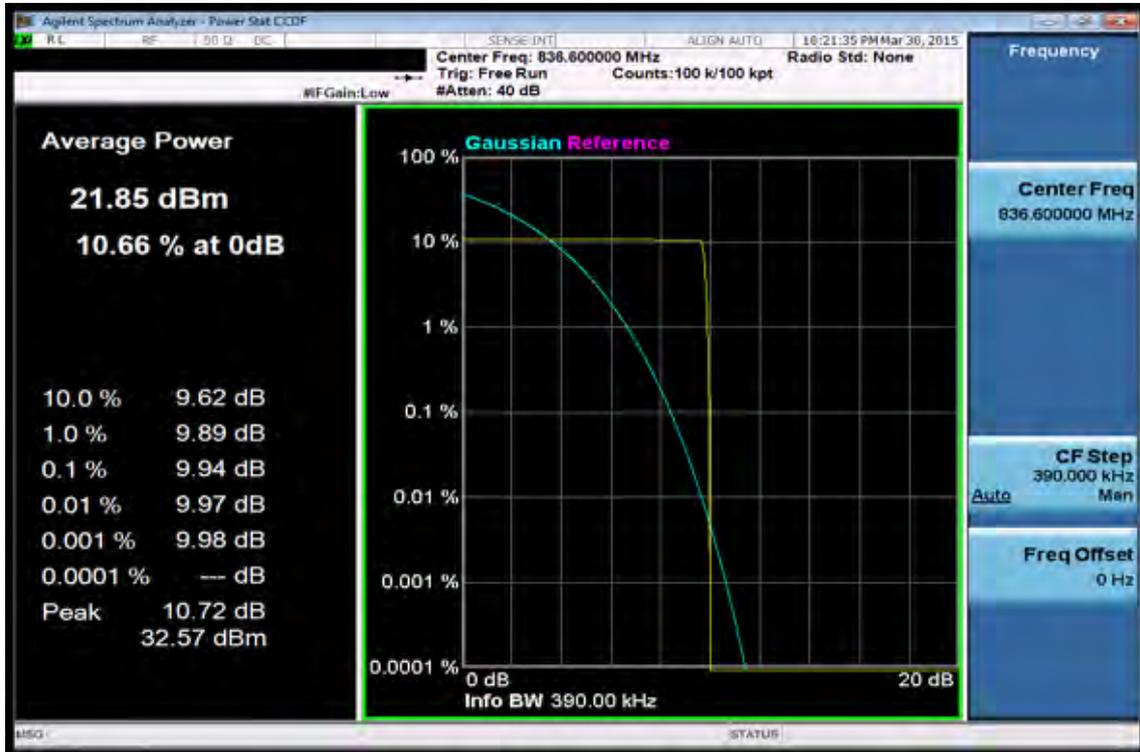
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Measurement Results:

GPRS 850 Channel Low



GPRS 850 Channel Mid

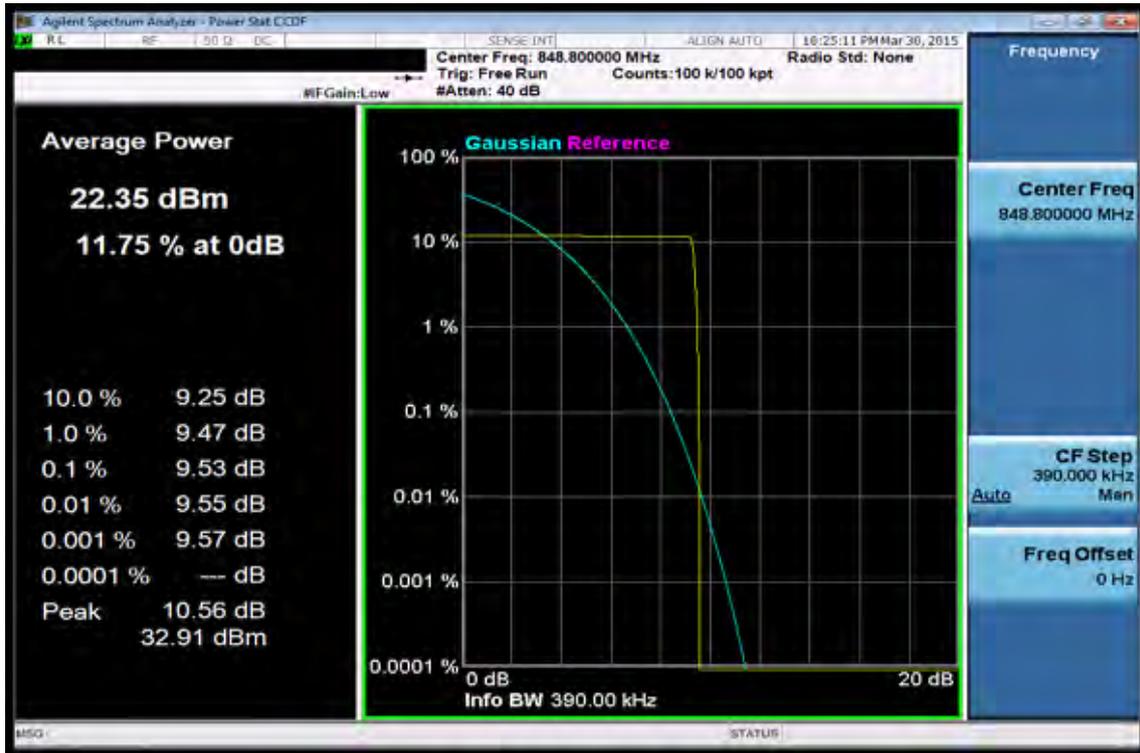


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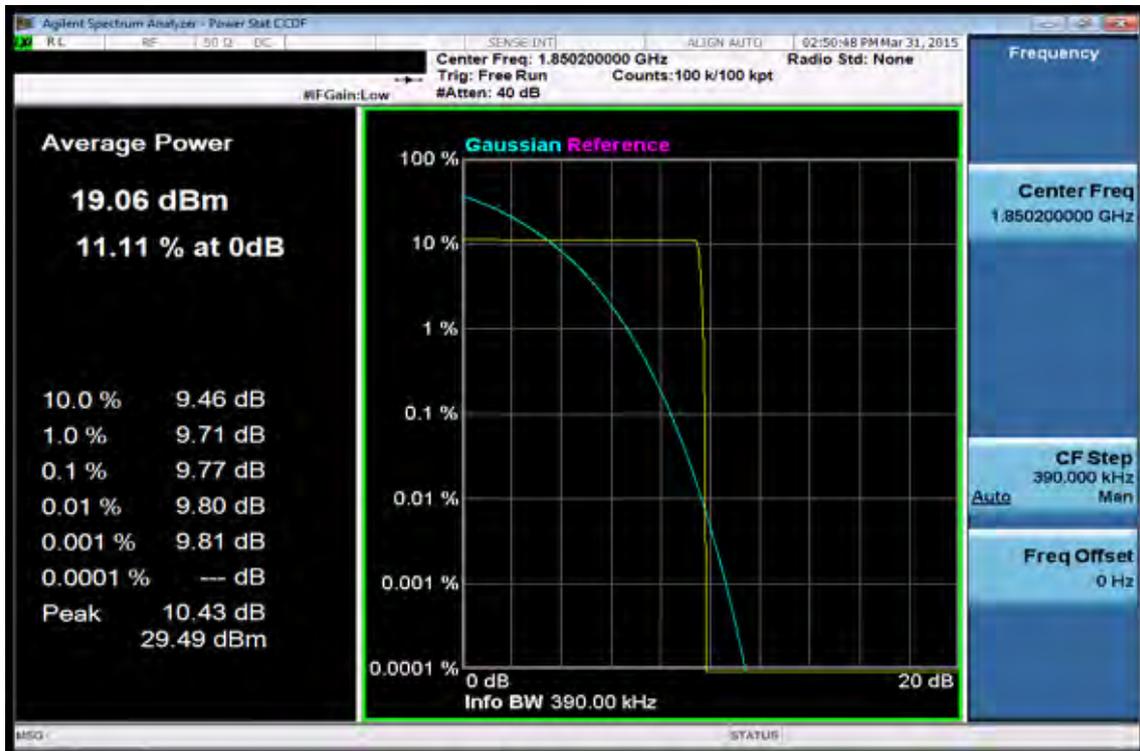
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GPRS 850 Channel High



GPRS 1900 Channel Low



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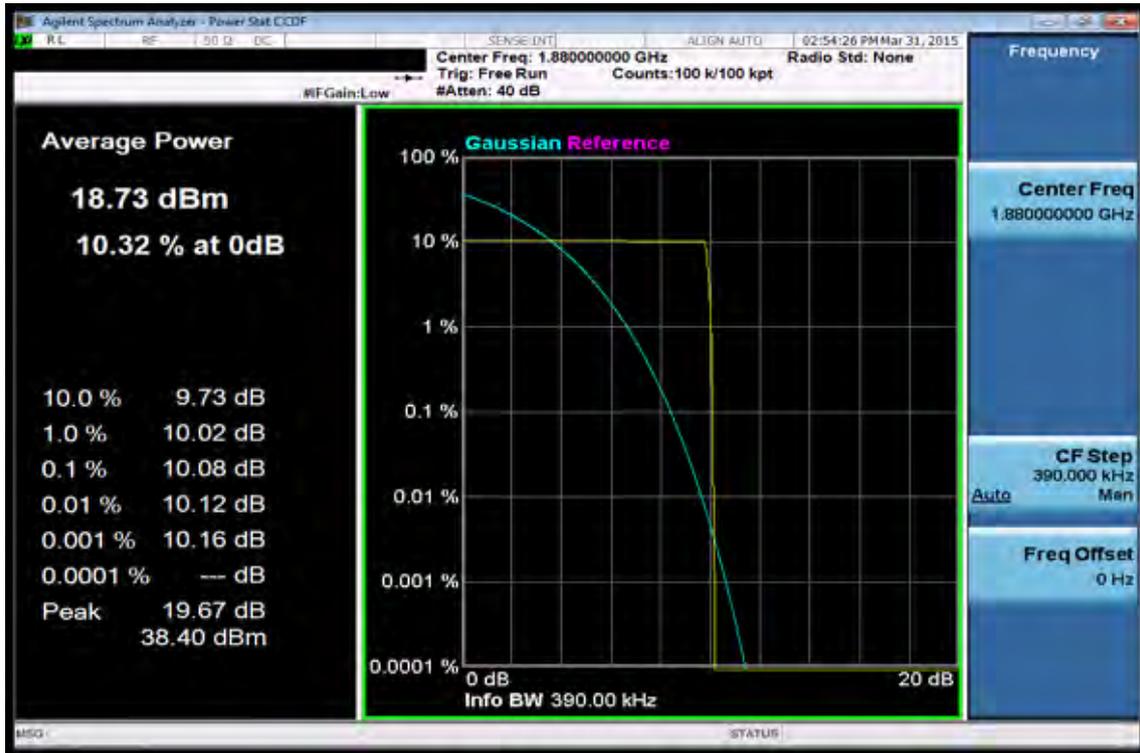
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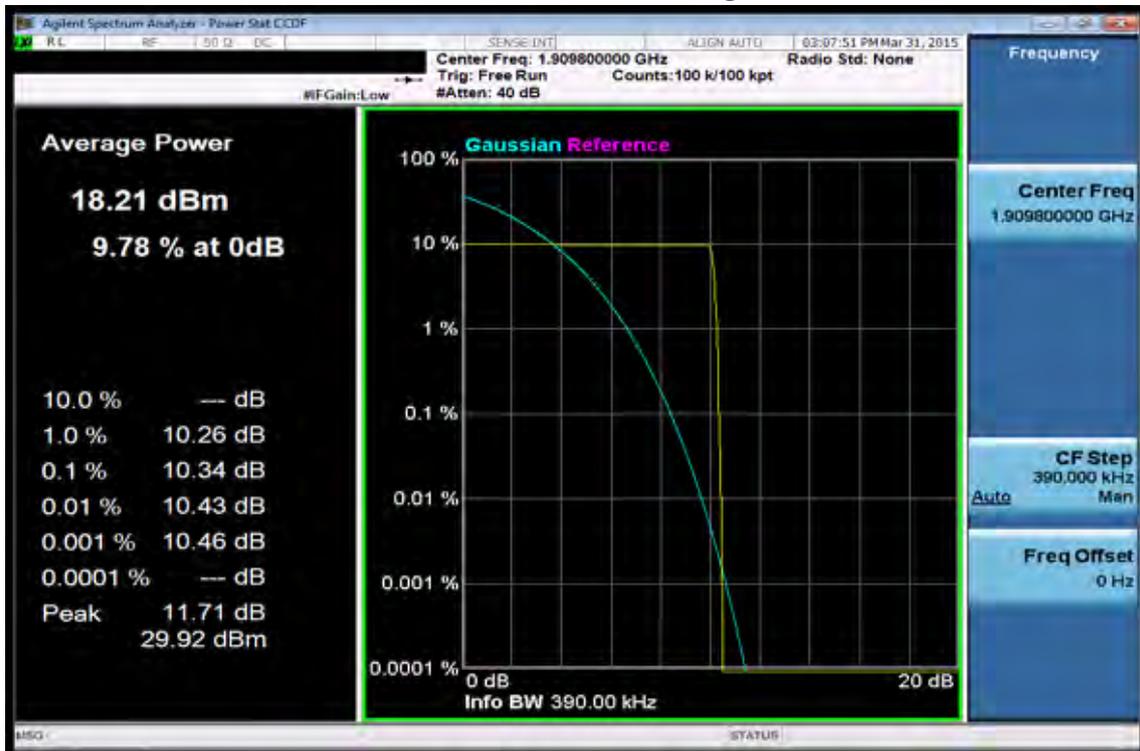
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GPRS 1900 Channel Mid



GPRS 1900 Channel High



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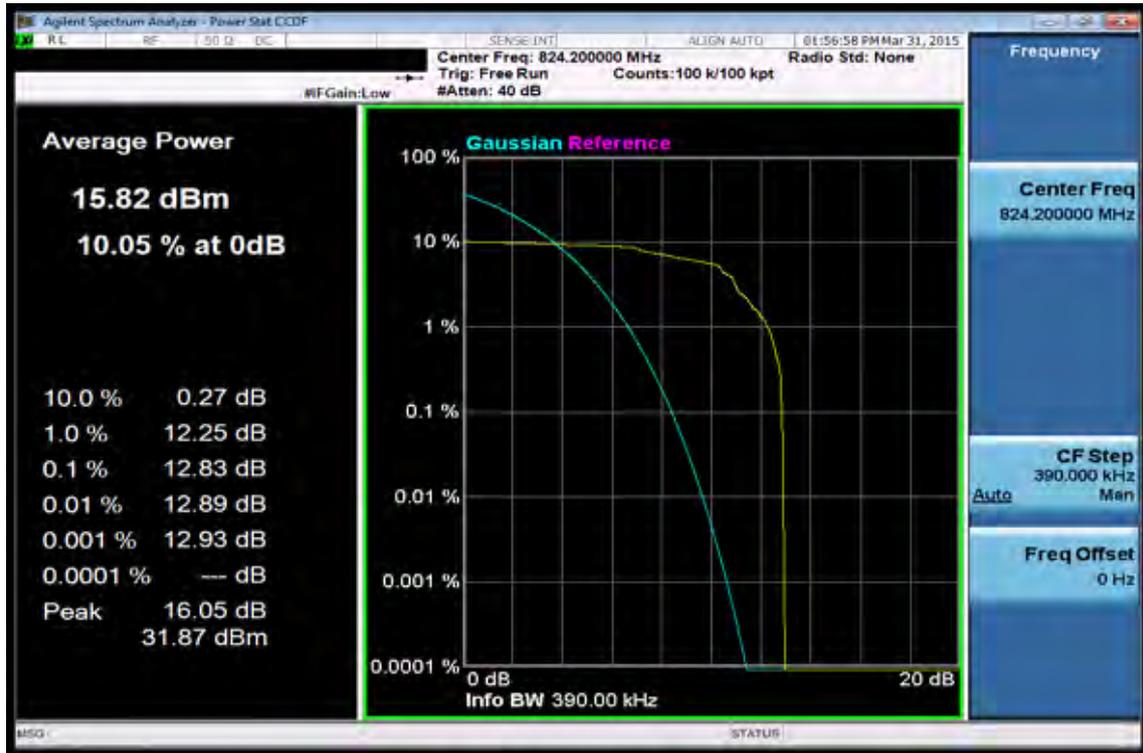
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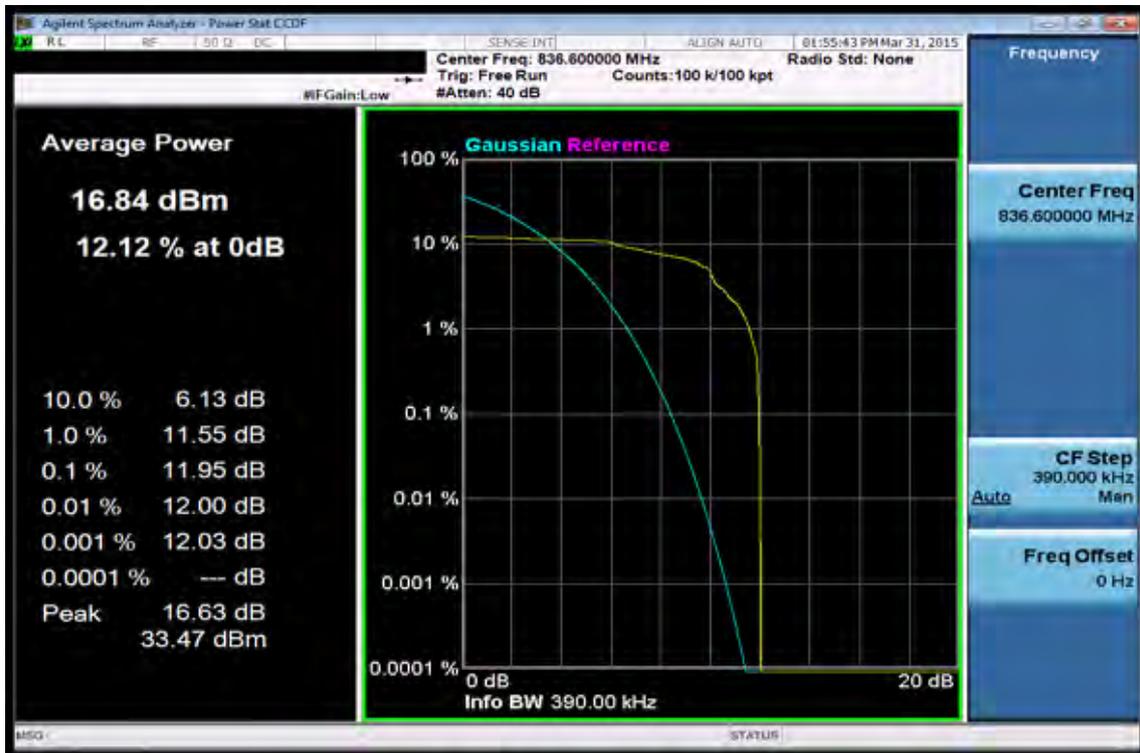
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EDGE 850 Channel Low



EDGE 850 Channel Mid



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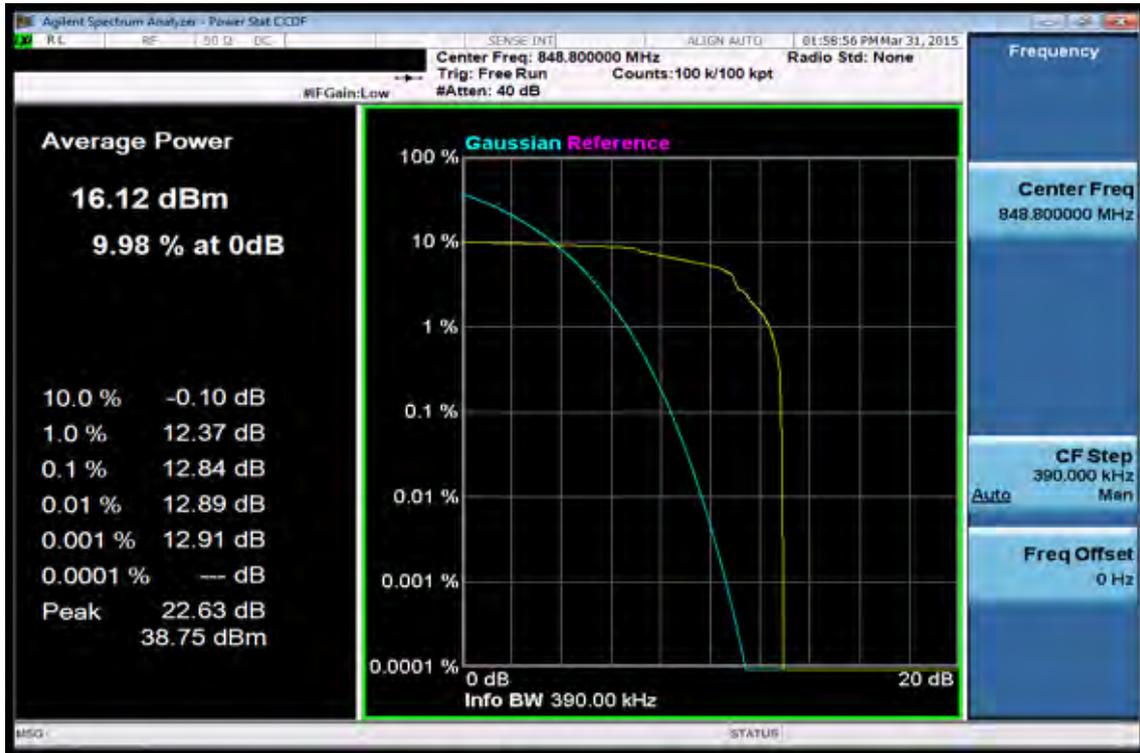
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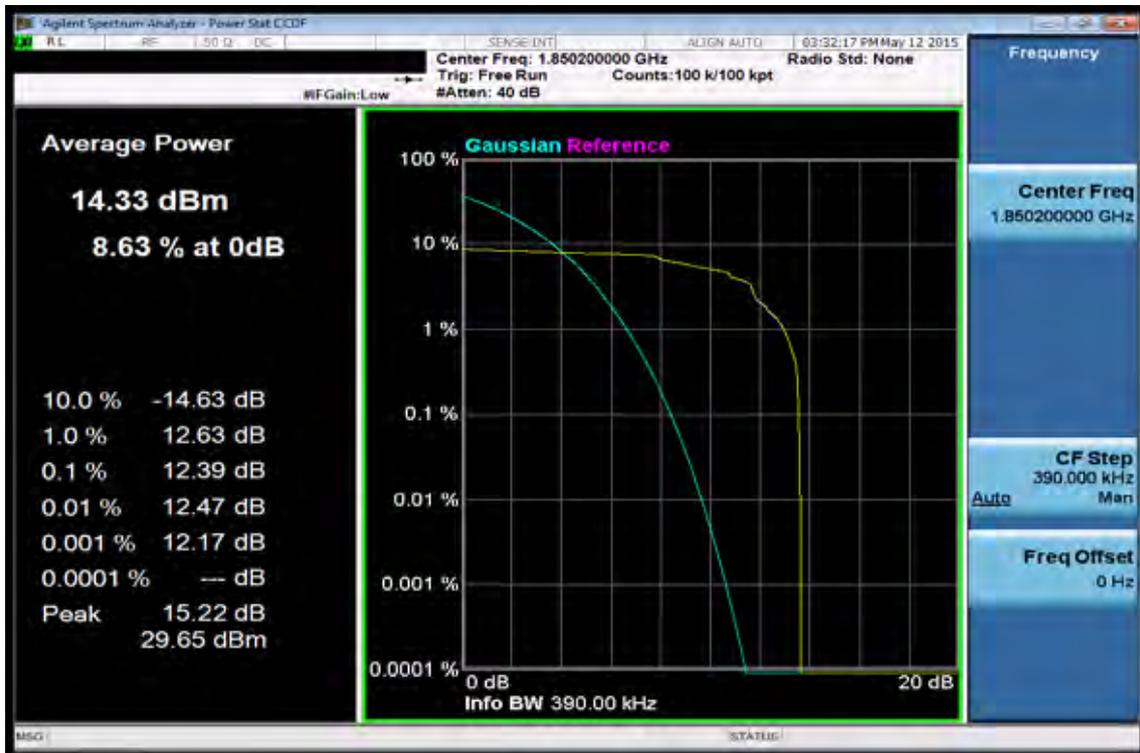
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EDGE 850 Channel High



EDGE 1900 Channel Low



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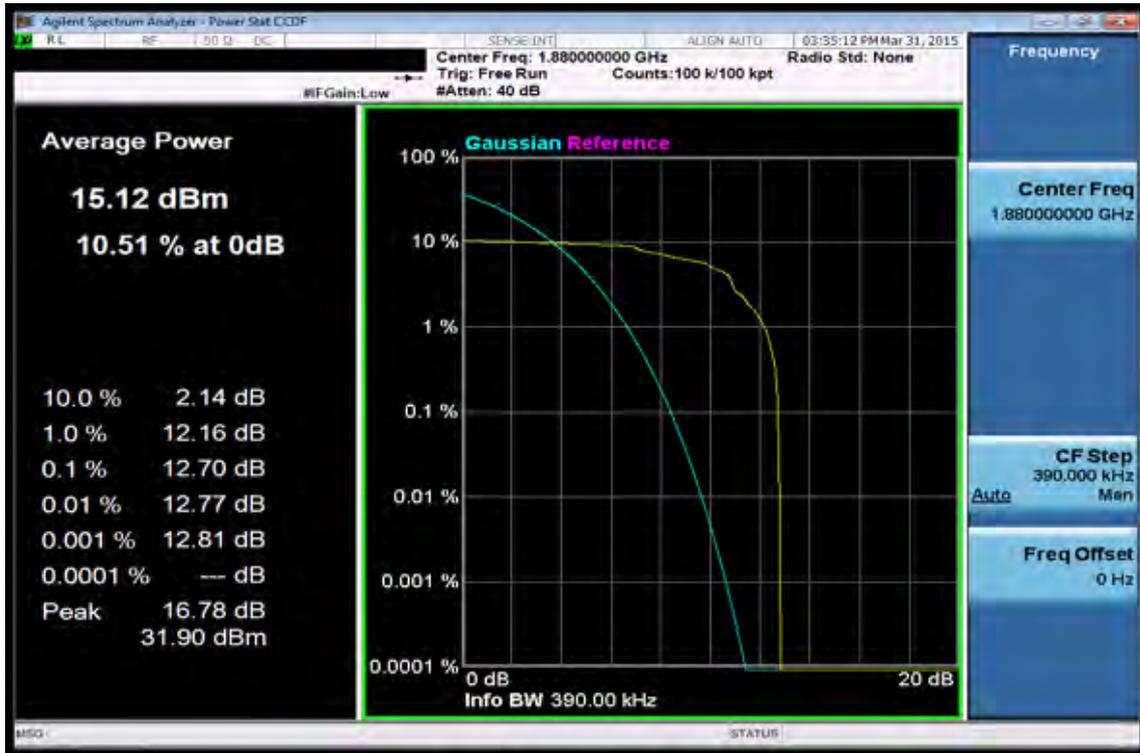
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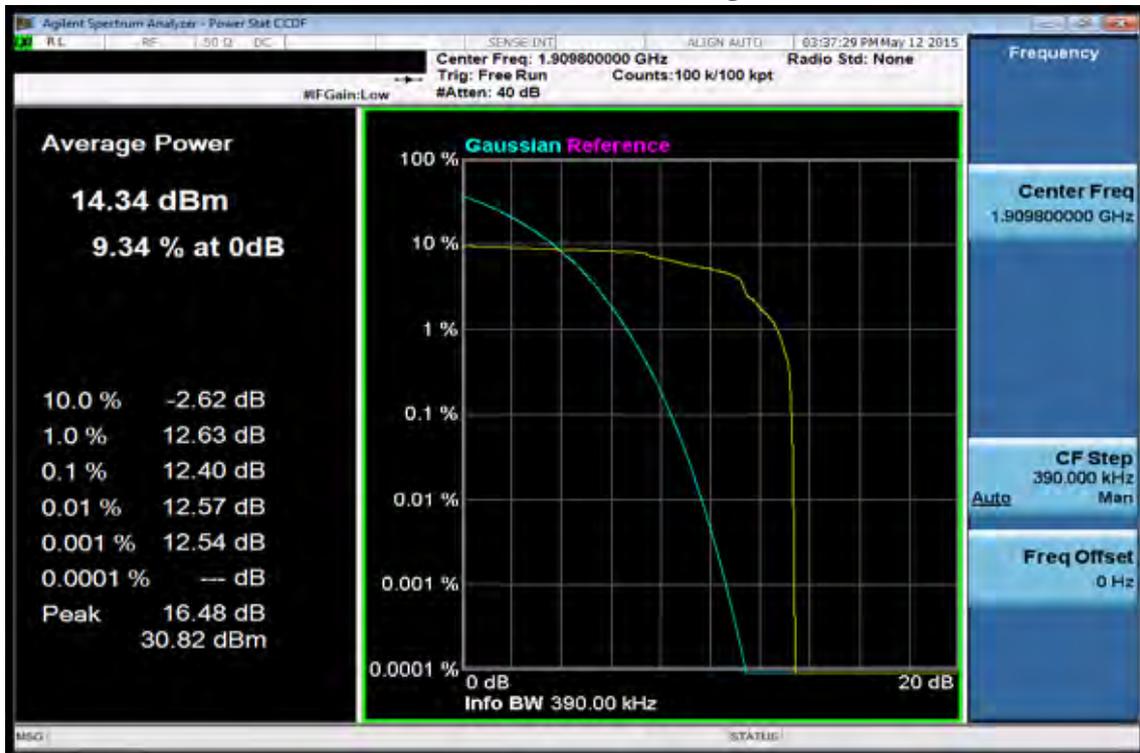
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EDGE 1900 Channel Mid



EDGE 1900 Channel High



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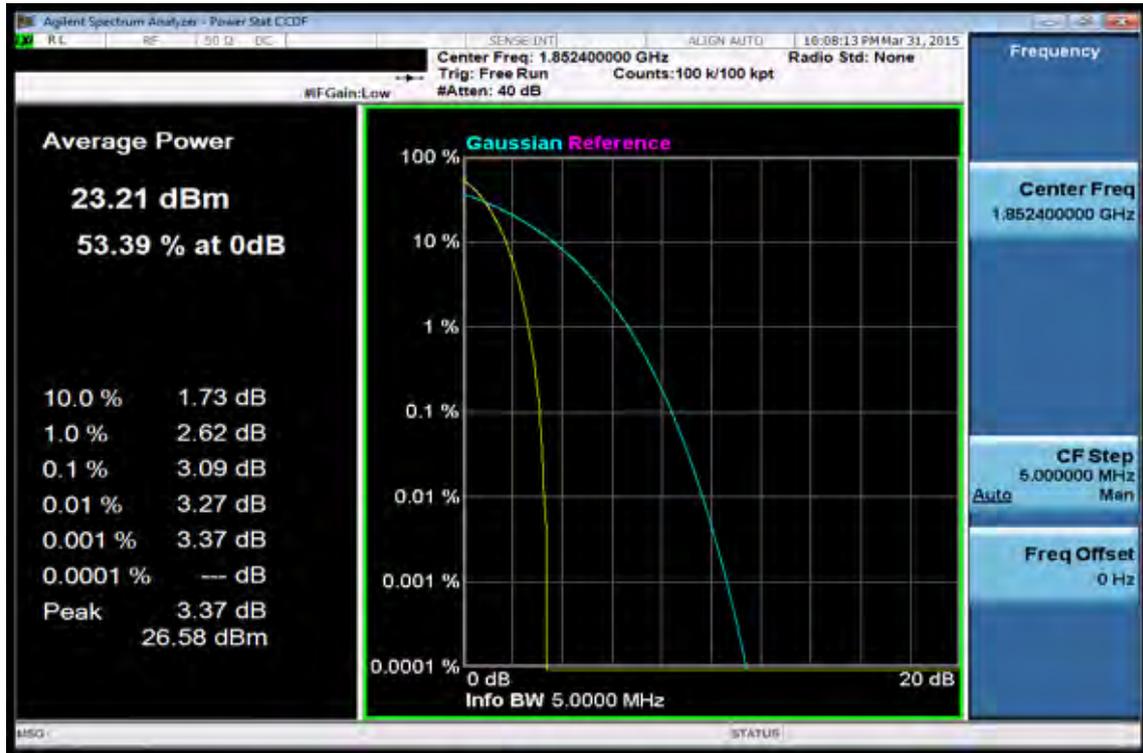
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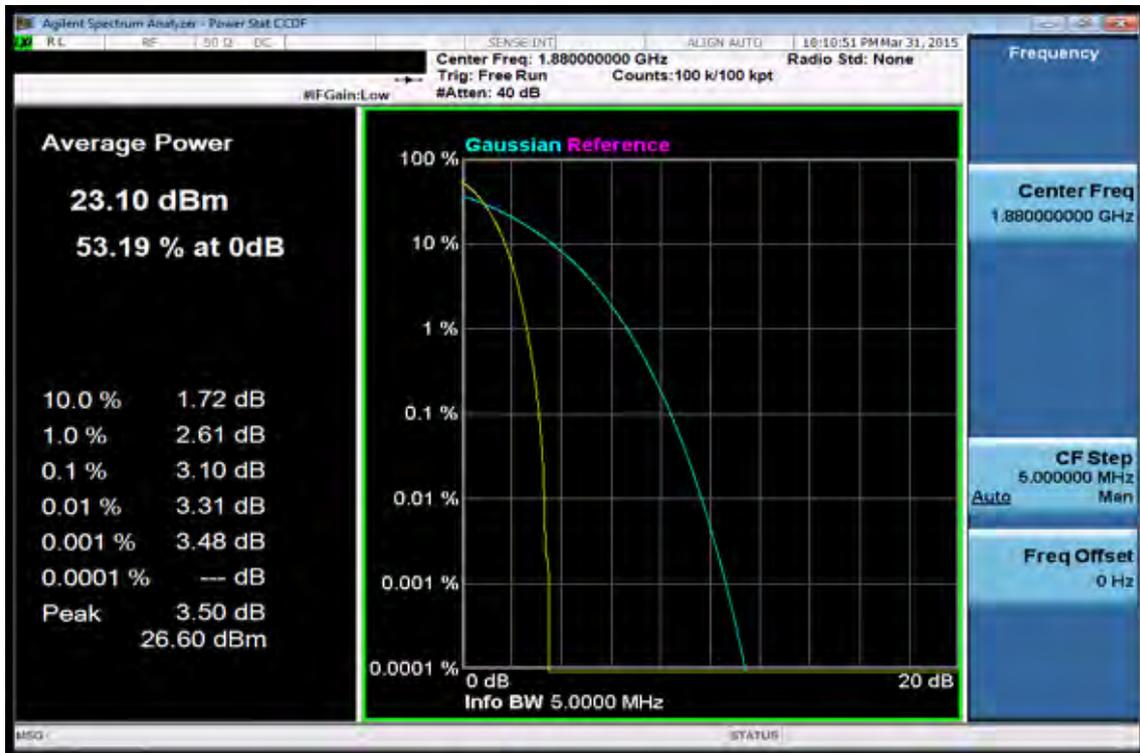
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WCDMA Band II Channel Low



WCDMA Band II Channel Mid



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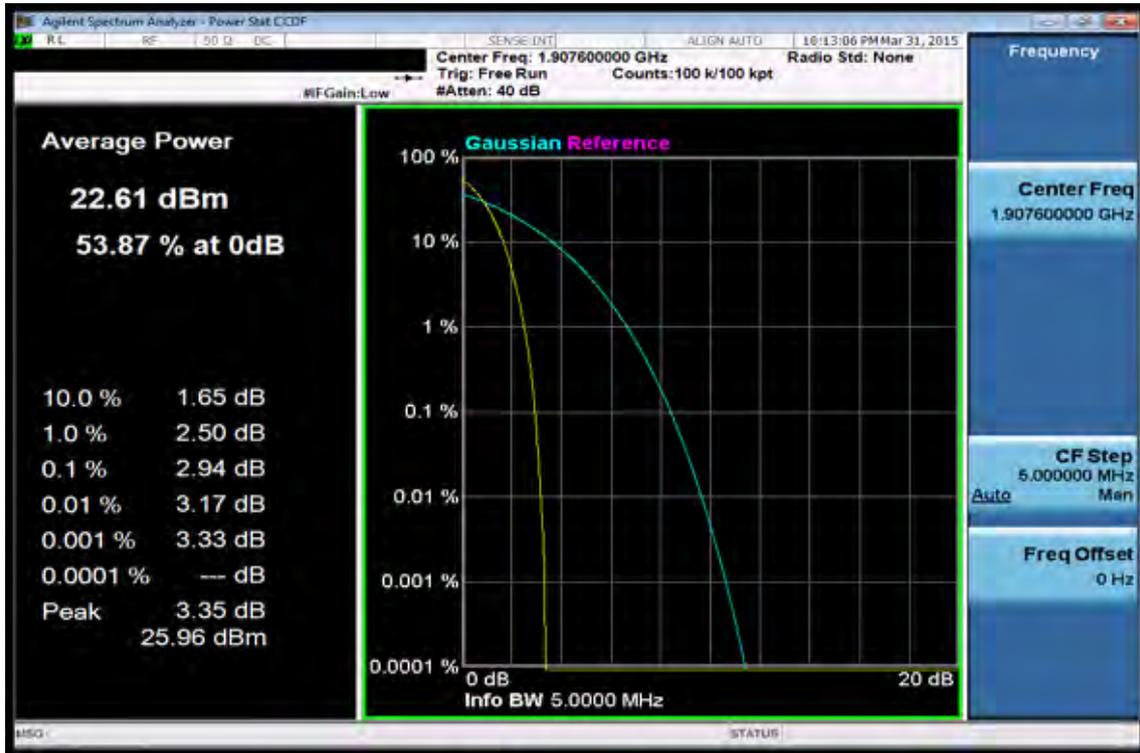
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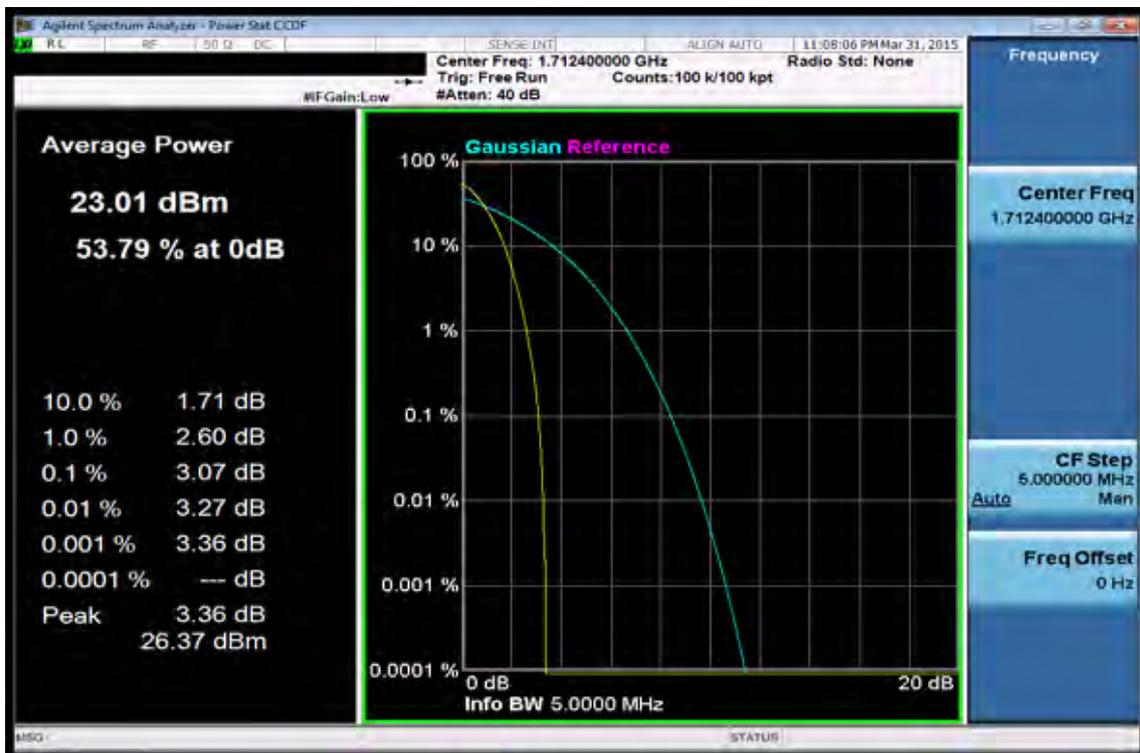
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WCDMA Band II Channel High



WCDMA Band IV Channel Low



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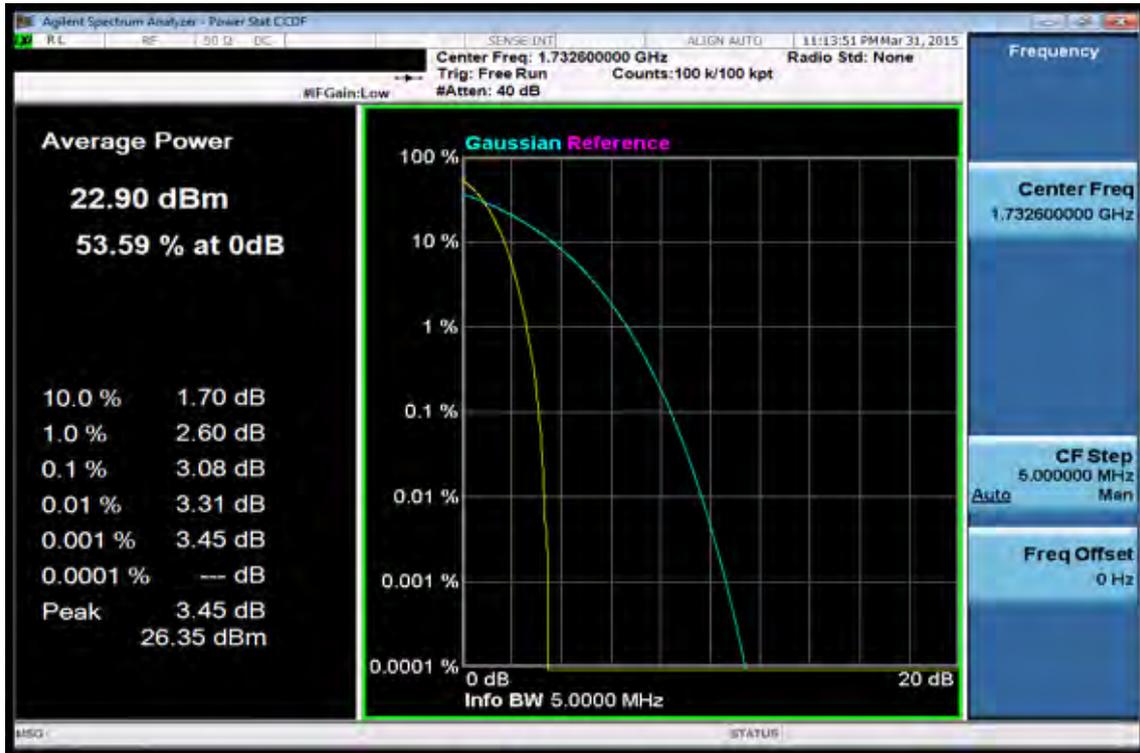
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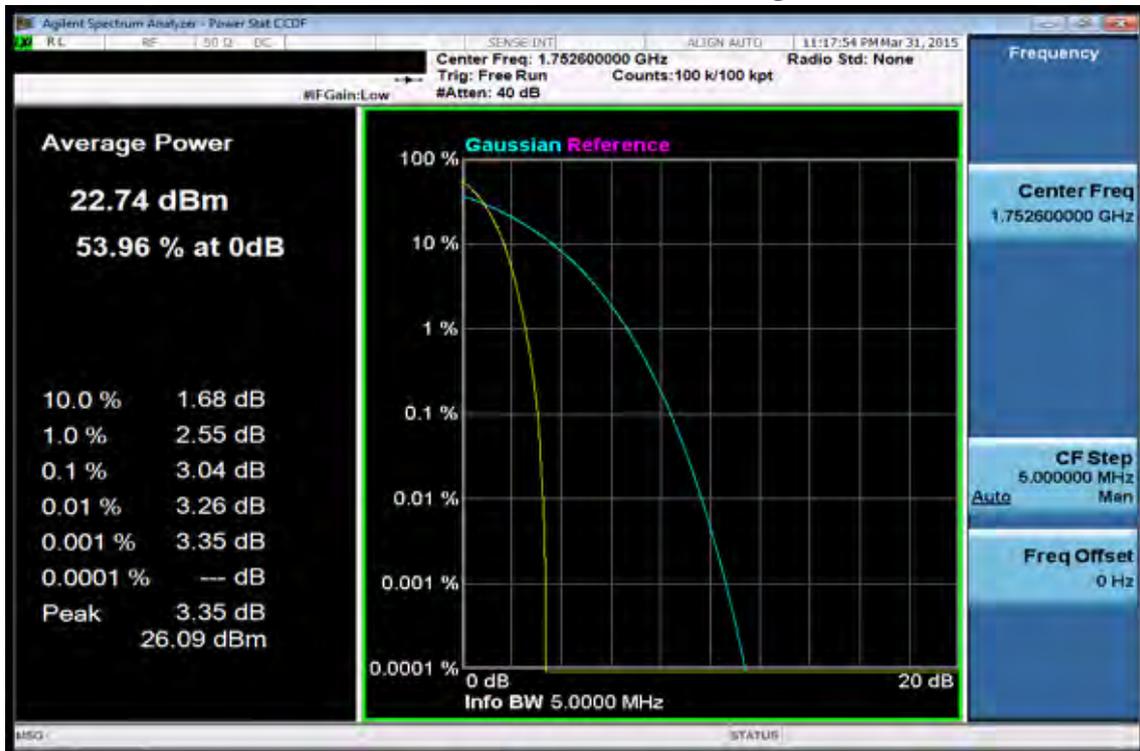
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WCDMA Band IV Channel Mid



WCDMA Band IV Channel High



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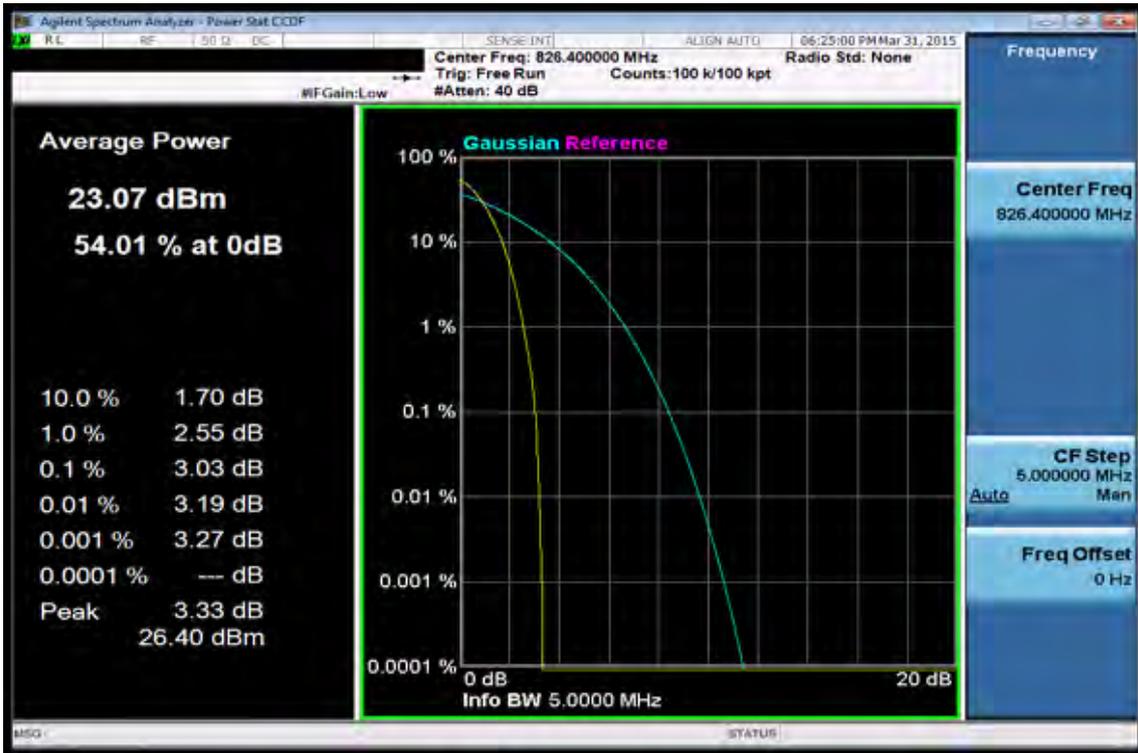
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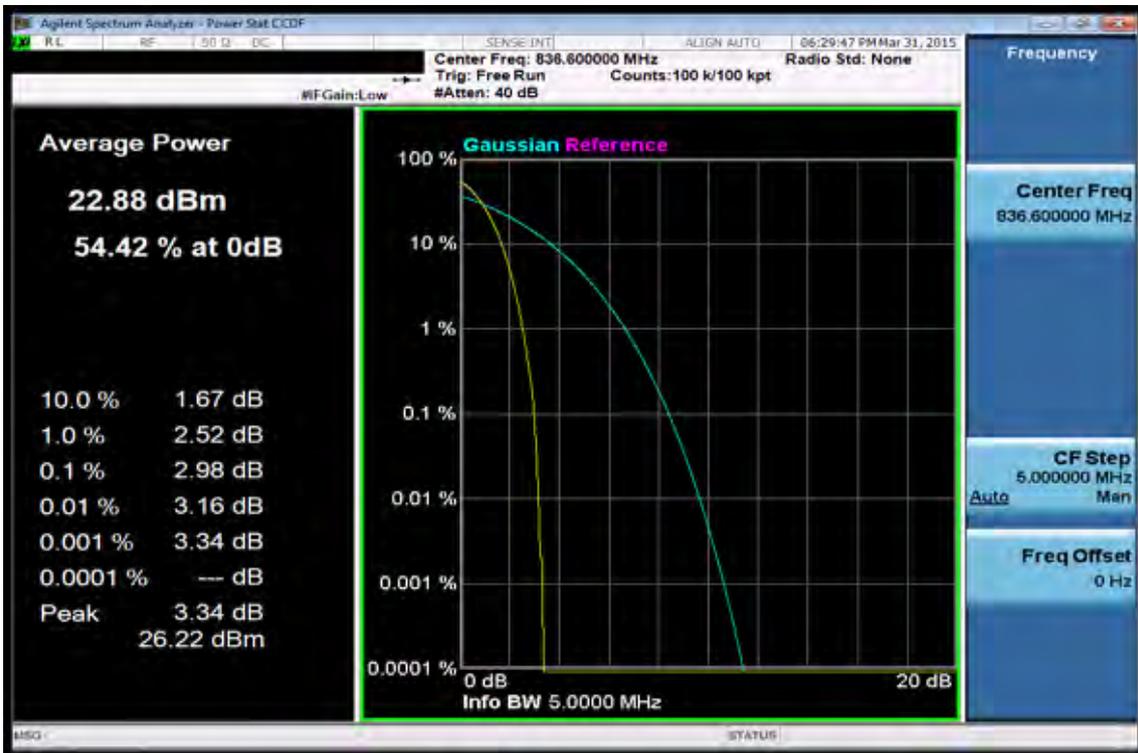
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WCDMA Band V Channel Low



WCDMA Band V Channel Mid



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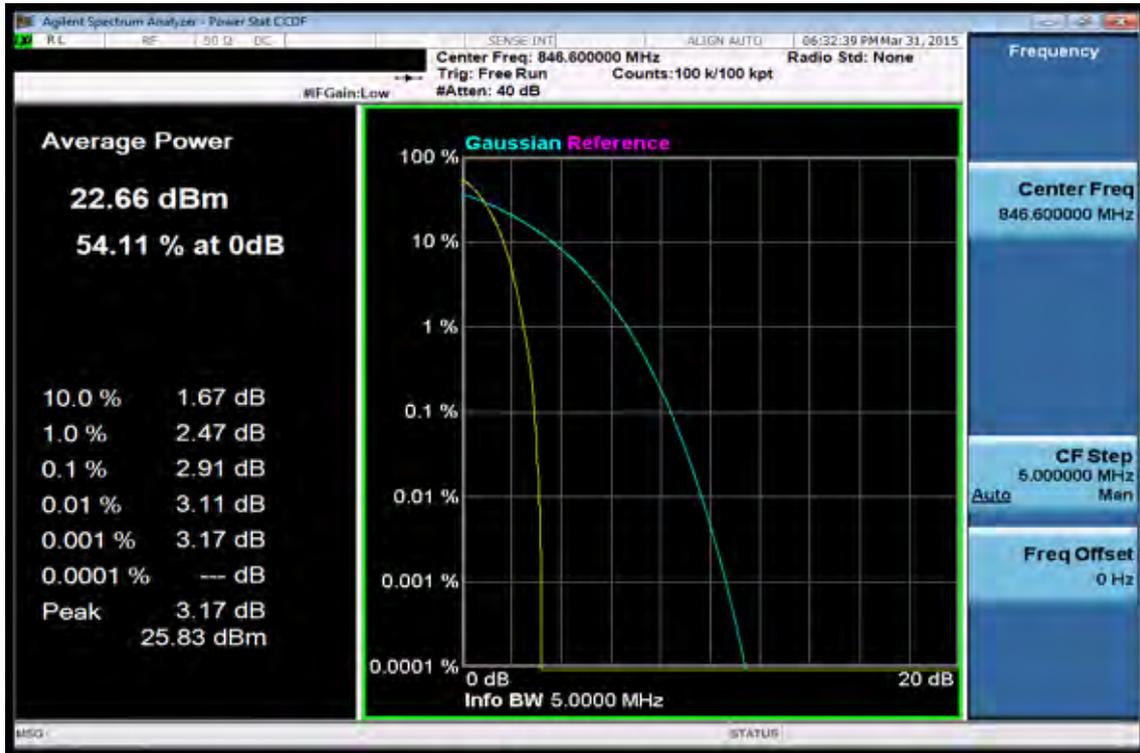
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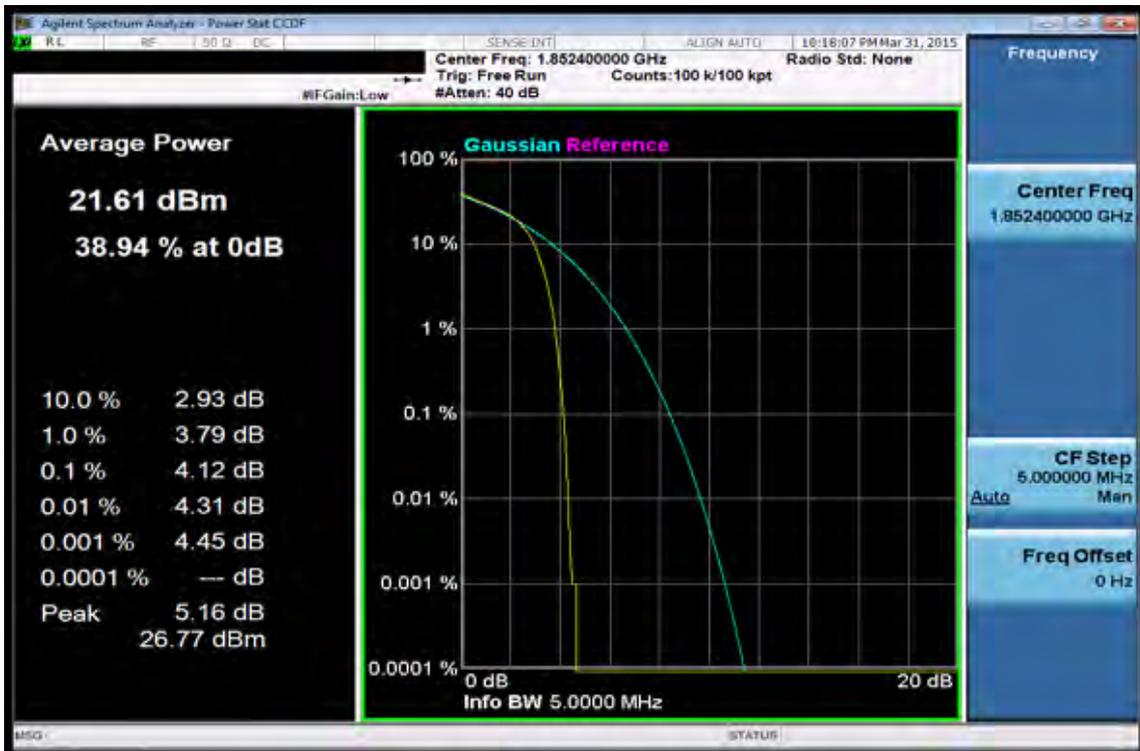
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WCDMA Band V Channel High



HSDPA Band II Channel Low



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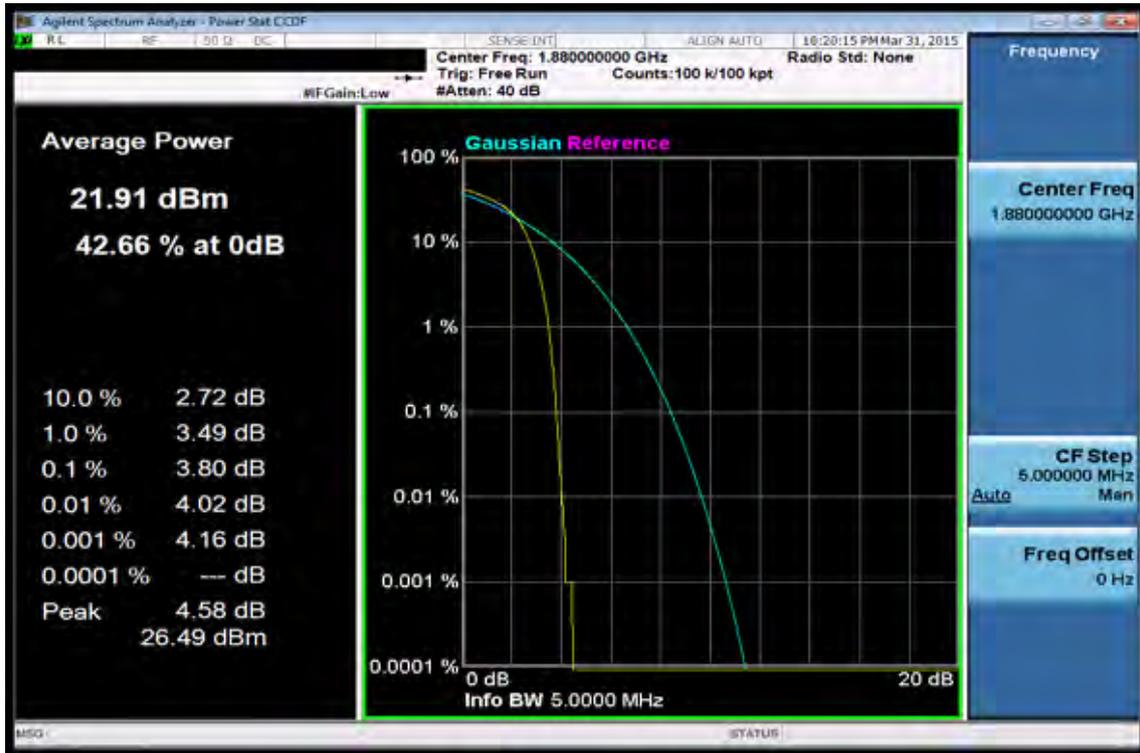
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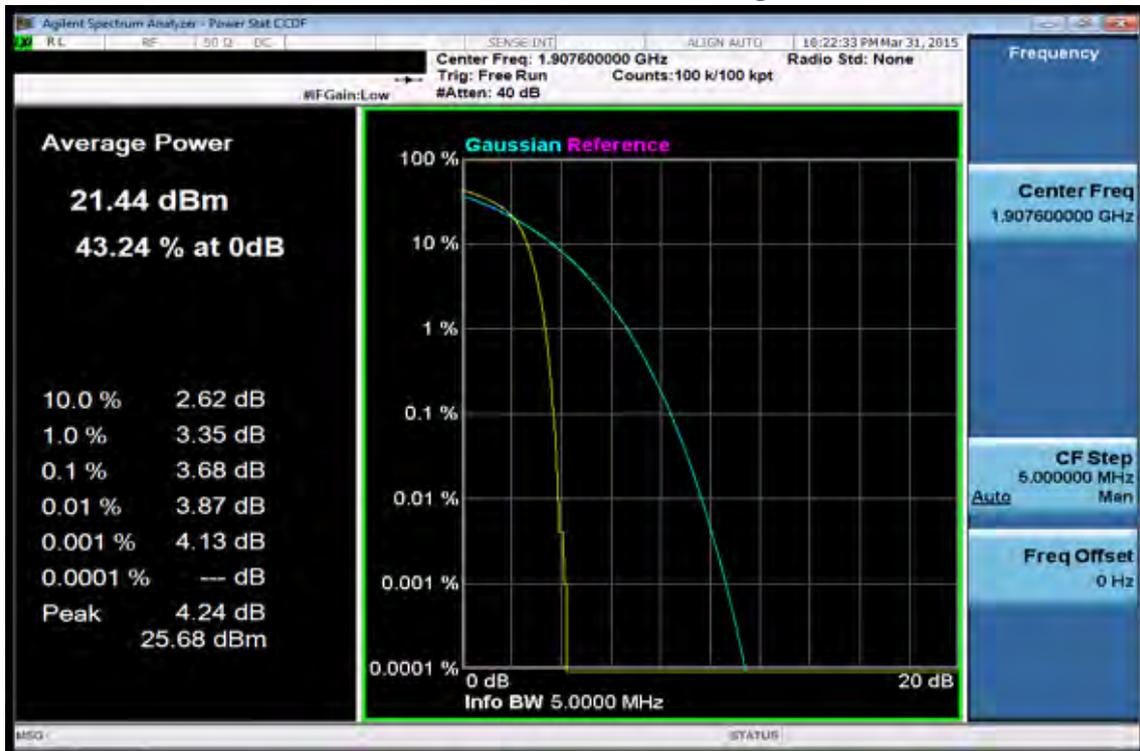
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HSDPA Band II Channel Mid



HSDPA Band II Channel High



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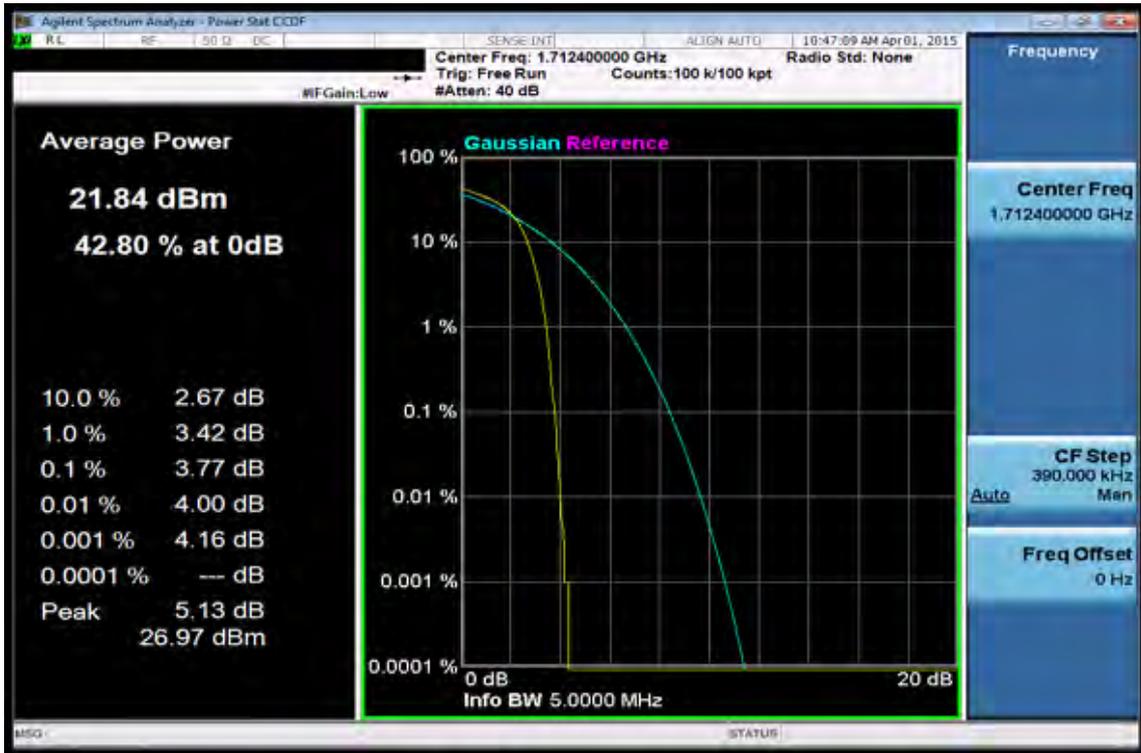
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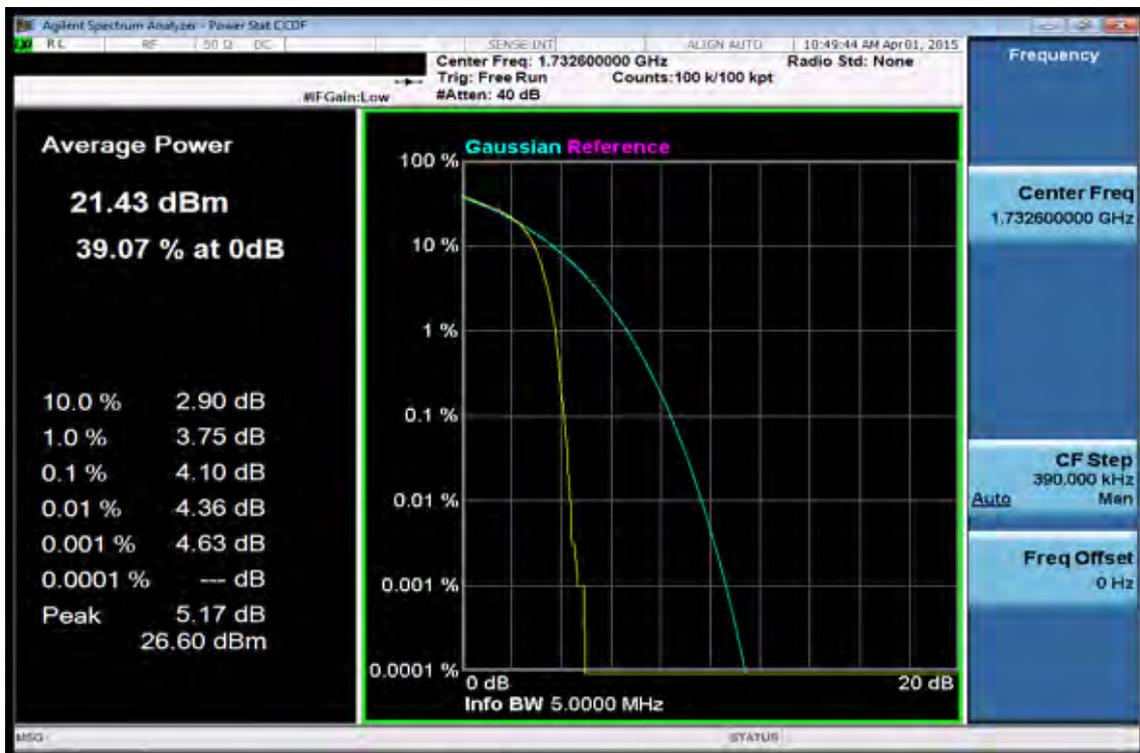
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HSDPA Band IV Channel Low



HSDPA Band IV Channel Mid



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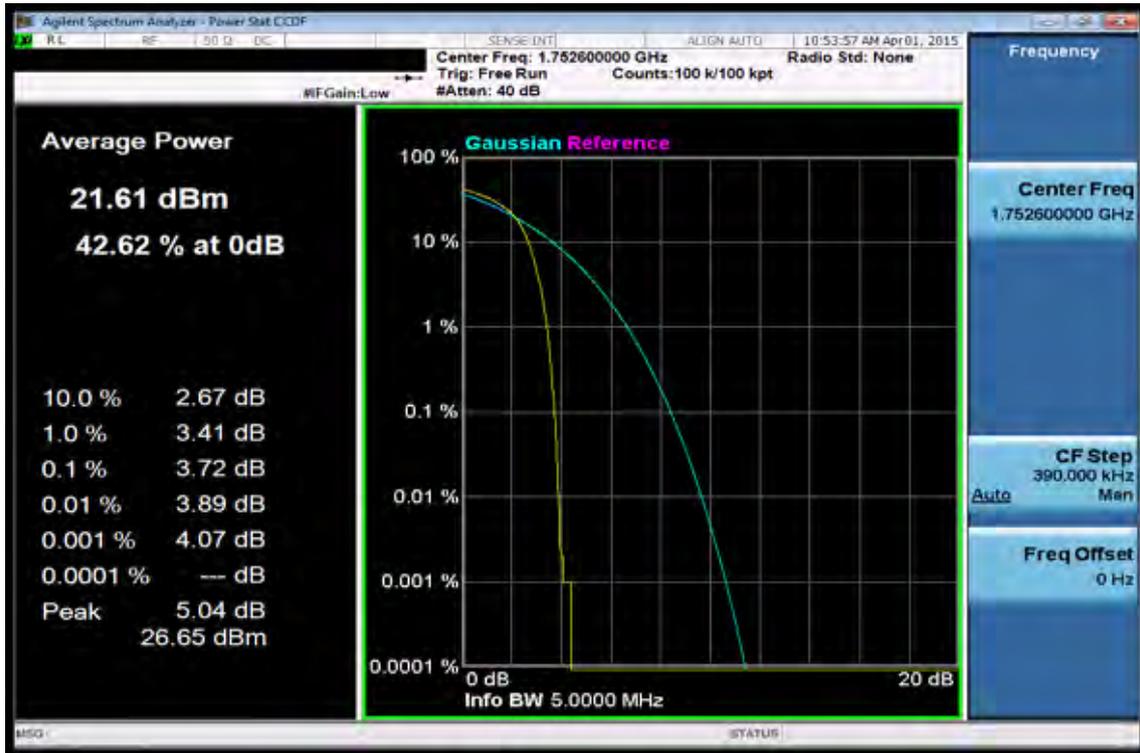
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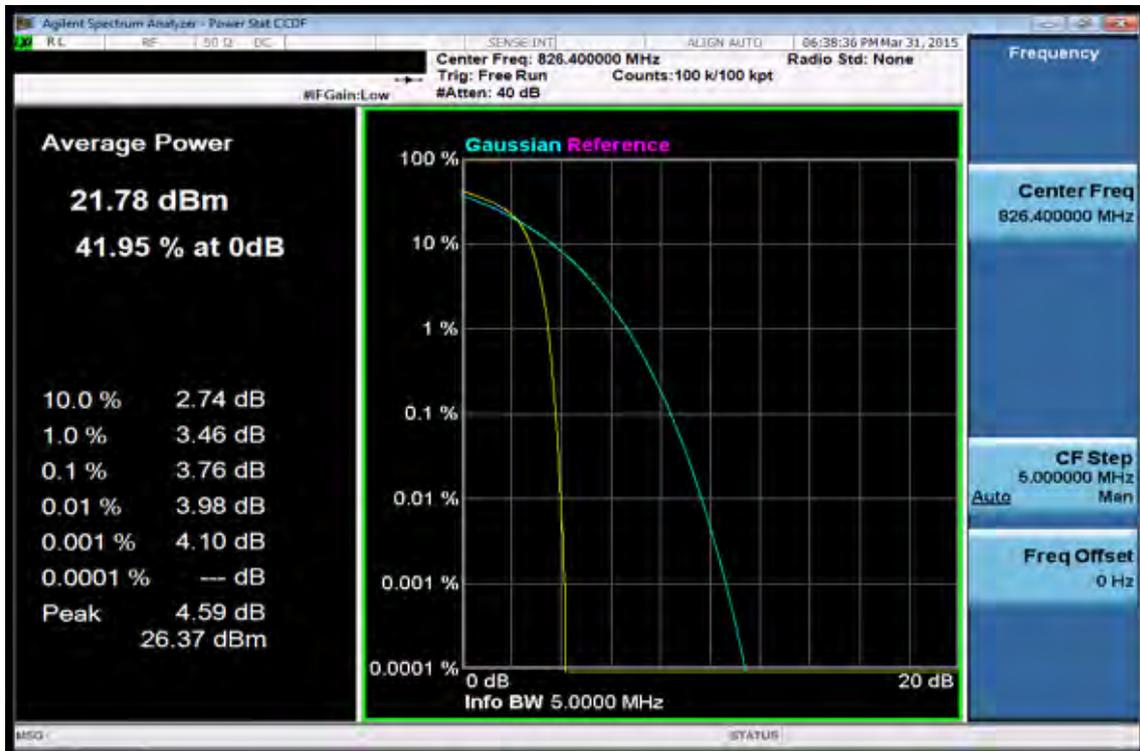
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HSDPA Band IV Channel High



HSDPA Band V Channel Low



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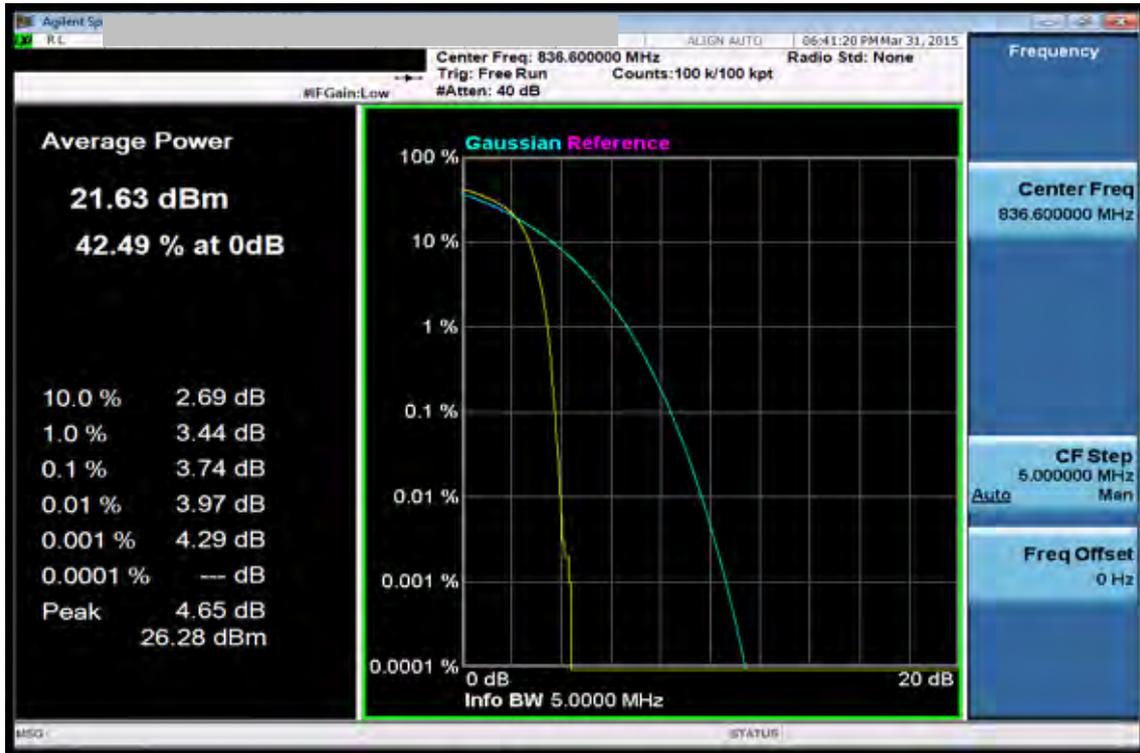
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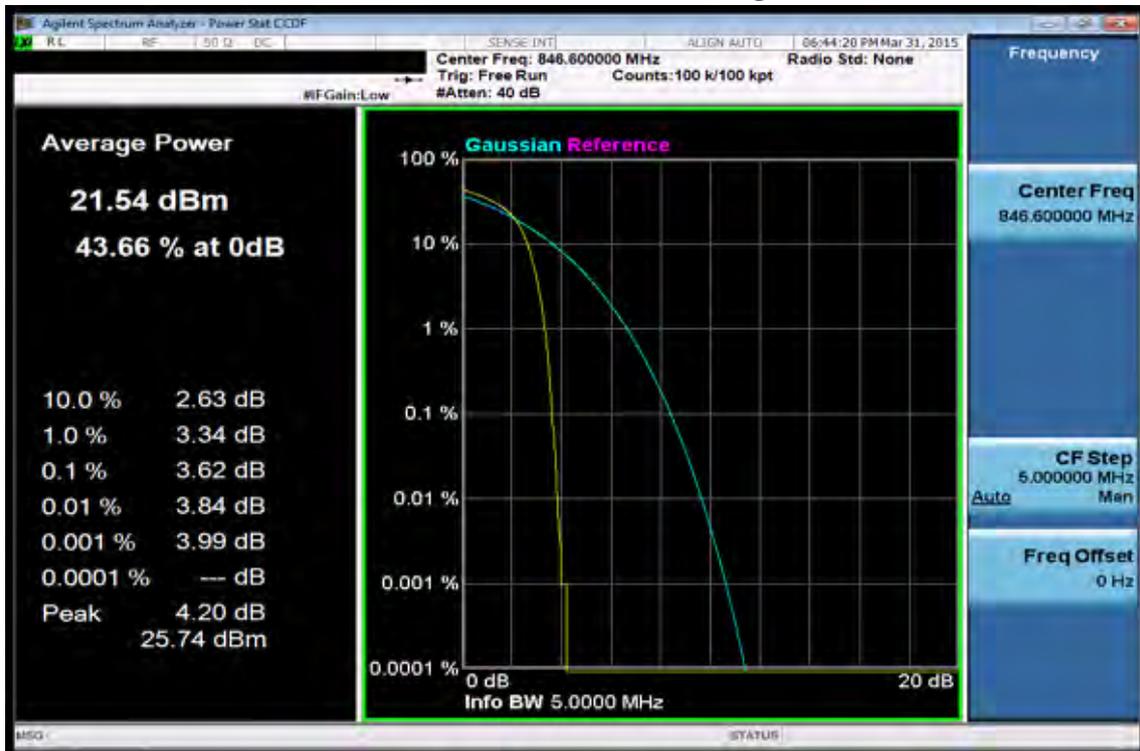
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HSDPA Band V Channel Mid



HSDPA Band V Channel High



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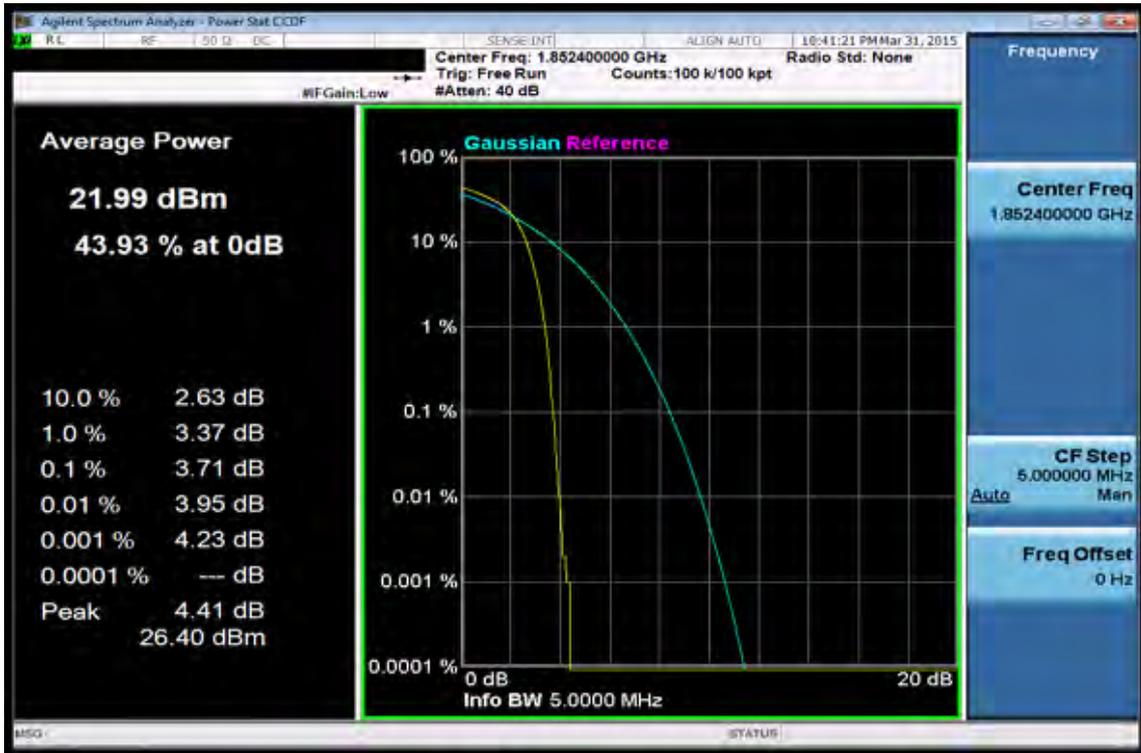
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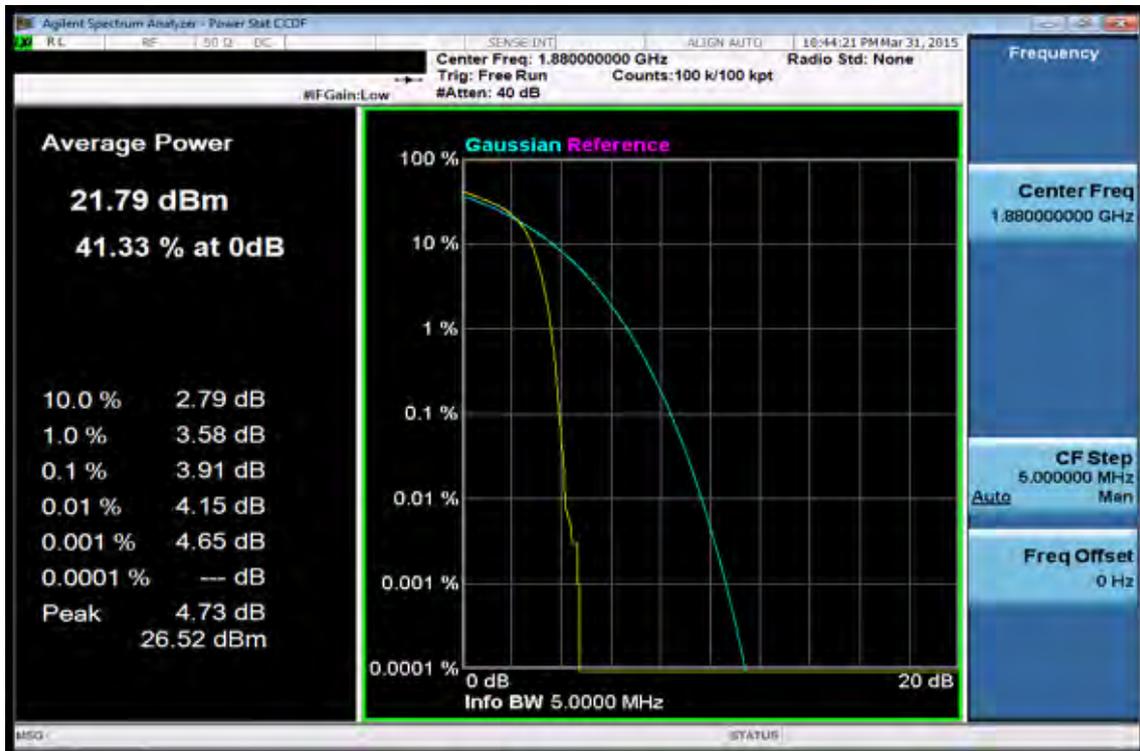
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HSUPA Band II Channel Low



HSUPA Band II Channel Mid



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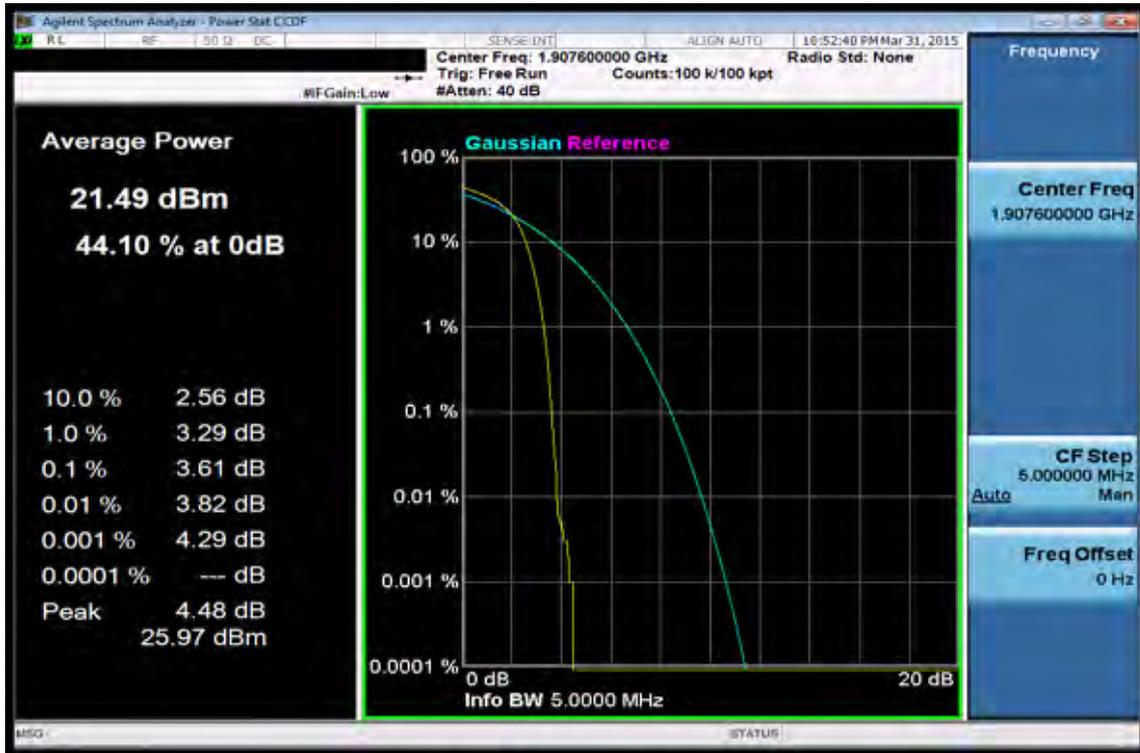
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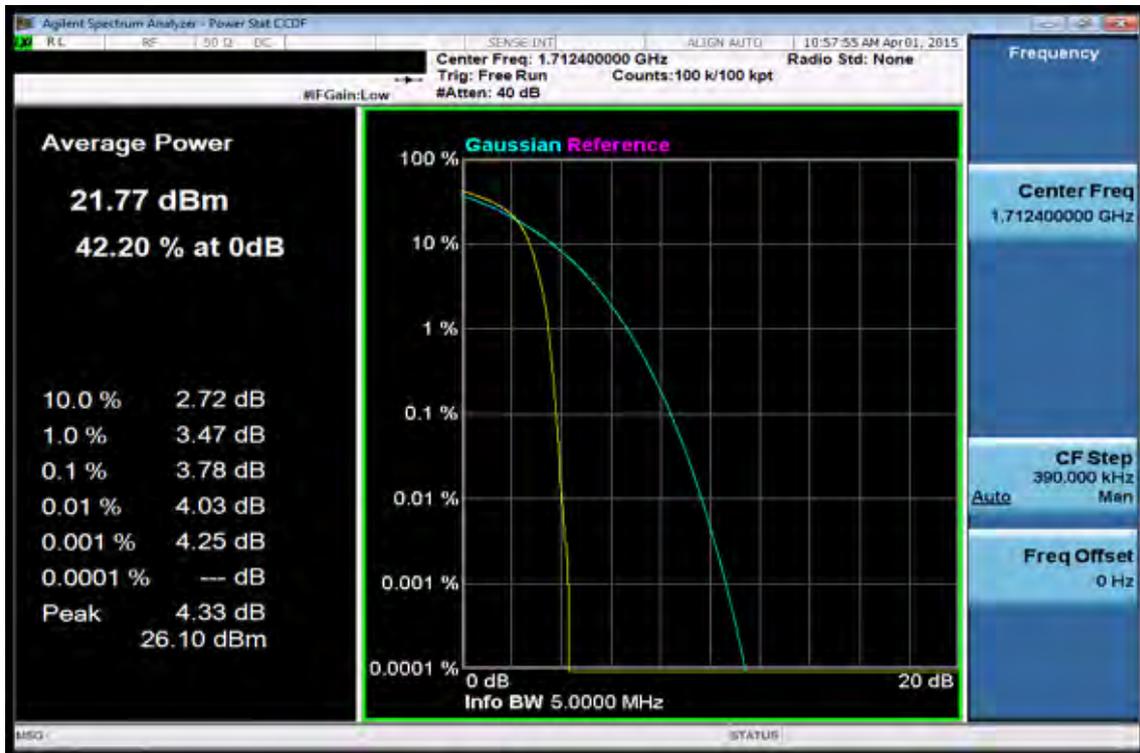
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HSUPA Band II Channel High



HSUPA Band IV Channel Low



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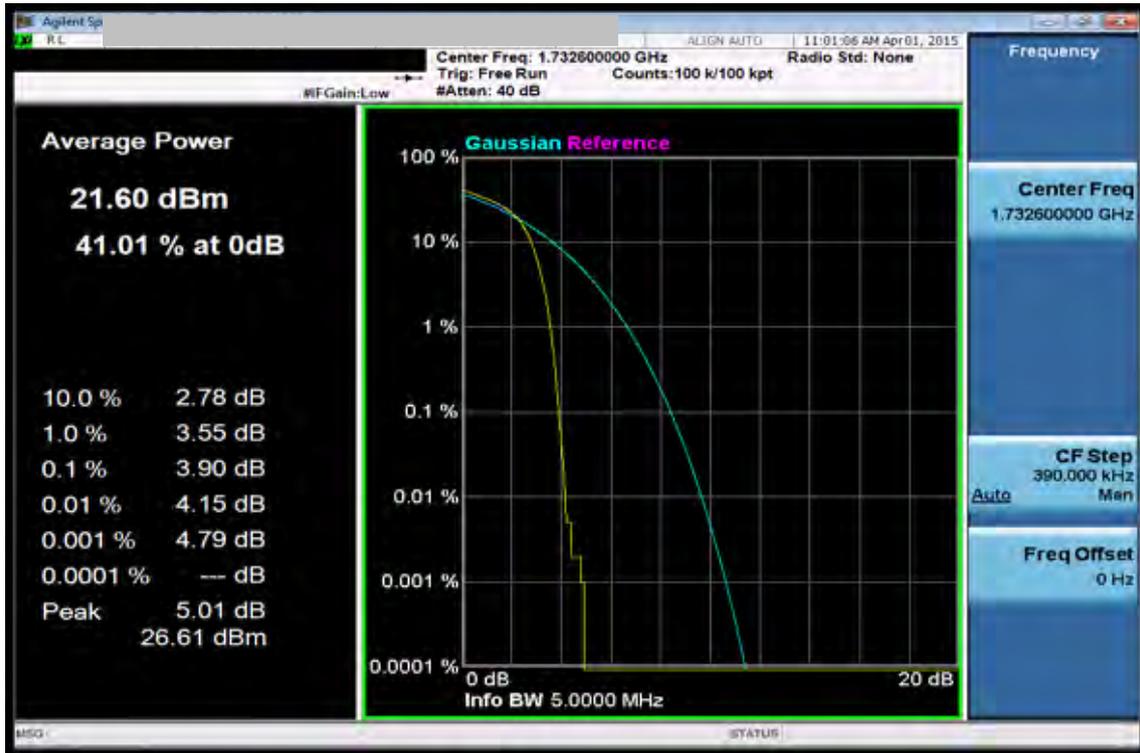
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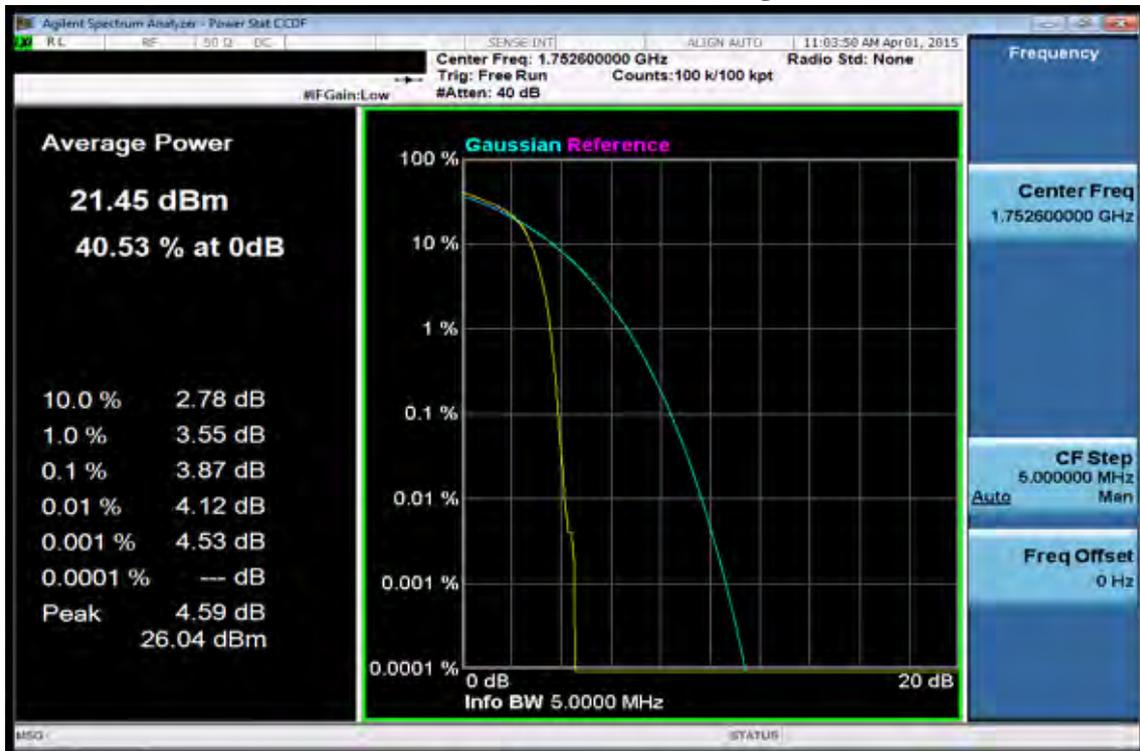
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HSUPA Band IV Channel Mid



HSUPA Band IV Channel High



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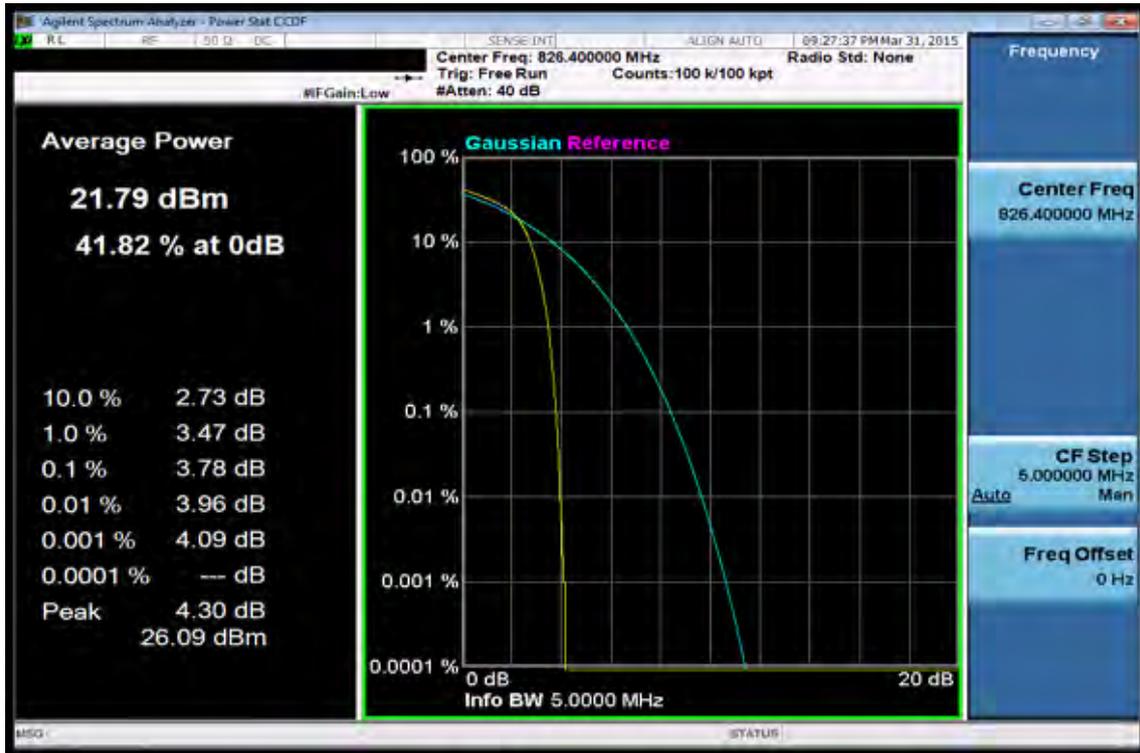
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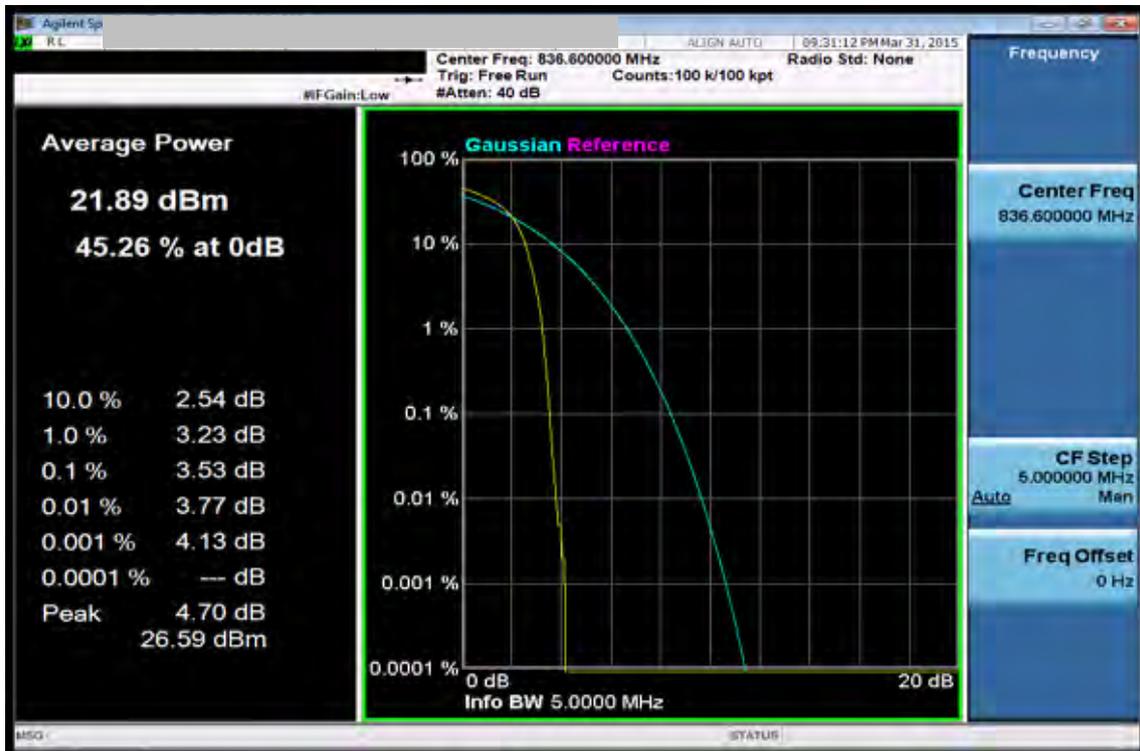
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HSUPA Band V Channel Low



HSUPA Band V Channel Mid



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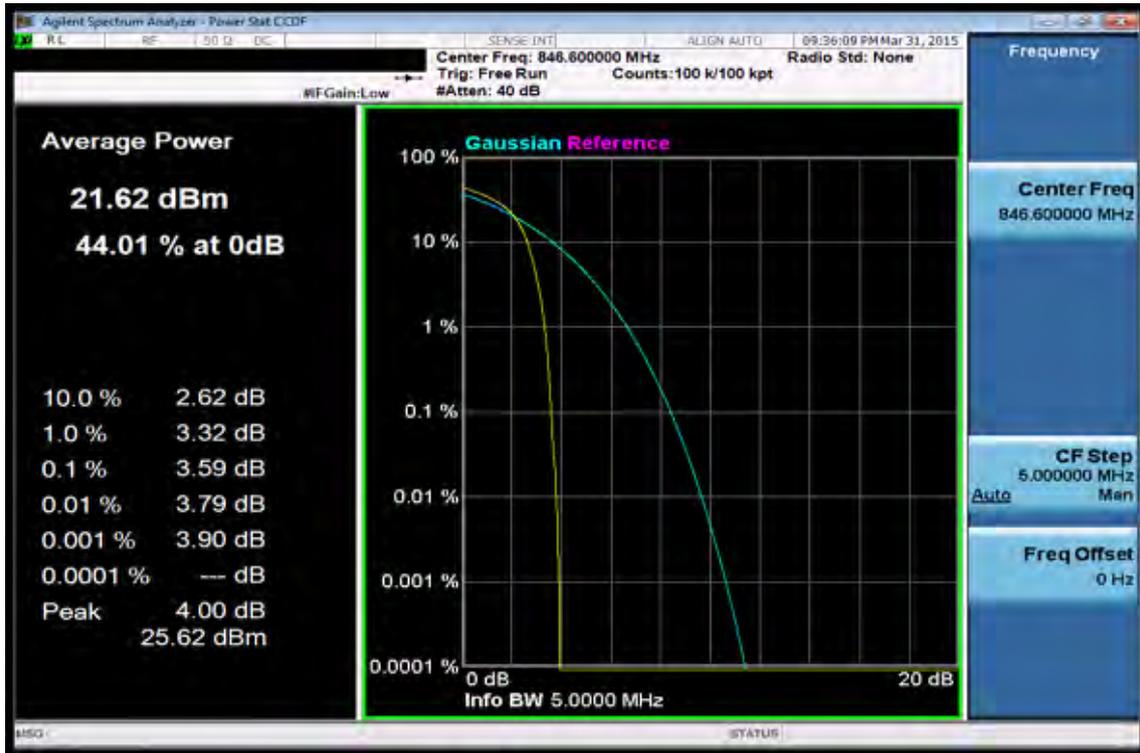
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