FCC TEST REPORT

Issued to

ZTE Corporation

For

WCDMA Digital Mobile Phone

Model Name:	NX402
Trade Name:	nubia
Brand Name:	nubia
FCC ID :	SRQ-NX402
Standard:	47 CFR Part 22 Subpart H
	47 CFR Part 24 Subpart E
	47 CFR Part 27 Subpart L
Test date:	2013-10-29 to 2013-11-12
Issue date:	2013-11-13

CNAS
TESTING
CNAS L3572

By

Shenzhen Morlab Communications Technology Co., Ltd.

FL.3, Building A, FeiYang Science Park, No.8 LongChang Road,Block 67, BaoAn District, ShenZhen, GuangDong Province,P. R. China 518101

Tested by _Nie Quan_
Nie Quan
(Test Engineer)
Date 2013. 11. 13

Approved by _Zeng Dexin_
Zeng Dexin
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Date 2013. 11. 13

Reviewed by _Peng Huarui_
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Date 2013. 11. 13

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Change History		
Issue	Date	Reason for change
1.0	2013-11-13	First edition

GENERAL INFORMATION

1.1   EUT Description

EUT Type .... :   WCDMA Digital Mobile Phone

Serial No. .... :   (n.a, marked #1 by test site)

Hardware Version .... :   QB8064-02A

Software Version.................. :   X402_Z35_EN_XSRPK1DDN1F100

Applicant .... :   ZTE Corporation

ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park,Nanshan District, Shenzhen, Guangdong, P.R.China

Manufacturer........................ :   ZTE Corporation

ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park,Nanshan District, Shenzhen, Guangdong, P.R.China

Frequency Range .... :   GSM 850MHz:

Tx: 824.20 - 848.80MHz (at intervals of 200kHz);

Rx: 869.20 - 893.80MHz (at intervals of 200kHz)

GSM 1900MHz:

Tx: 1850.20 - 1909.80MHz (at intervals of 200kHz);

Rx: 1930.20 - 1989.80MHz (at intervals of 200kHz)

WCDMA 850MHz

Tx: 826.4 - 846.6MHz (at intervals of 200kHz);

Rx: 871.4 - 891.6MHz (at intervals of 200kHz)

WCDMA 1900MHz

Tx: 1852.4 - 1907.6MHz (at intervals of 200kHz);

Rx: 1932.4 - 1987.6MHz (at intervals of 200kHz)

WCDMA 1700MHz

Tx: 1712.4 - 1752.6MHz (at intervals of 200kHz);

Rx: 2112.4 - 2152.6MHz (at intervals of 200kHz)

Modulation Type................... :   GSM,GPRS Mode with GMSK Modulation

EDGE Mode with 8PSK Modulation

WCDMA Mode with QPSK Modulation

HSDPA Mode with QPSK Modulation

HSUPA Mode with QPSK Modulation

HSPA+ Mode with QPSK Modulation

Multislot Class...................... :   GPRS: Multislot Class12,EGPRS: Multislot Class12

Antenna Type....................... :   PIFA Antenna

Emission Designators .... :   GSM 850:262KGXW,GSM 1900:266KGXW

EGPRS850:253KG7W, EGPRS1900:253KG7W,

WCDMA 850:4M18F9W ,WCDMA1900:4M18F9W

WCDMA1700:4M17F9W

Note 1: The transmitter (Tx) frequency arrangement of the Cellular 850MHz band used by the EUT can be represented with the formula F(n)=824.2+0.2*(n-128), 128<=n<=251; the lowest, middle, highest channel numbers (ARFCHs) used and tested in this report are separately 128 (824.2MHz), 190 (836.6MHz) and 251 (848.8MHz).

Note 2: The transmitter (Tx) frequency arrangement of the PCS 1900MHz band used by the EUT can be represented with the formula F(n)=1850.2+0.2*(n-512), 512<=n<=810; the lowest, middle and highest channel numbers (ARFCHs) used and tested in this report are separately 512 (1850.2MHz), 661 (1880.0MHz) and 810 (1909.8MHz).

Note 3: The transmitter (Tx) frequency arrangement of the WCDMA 850MHz band used by the EUT can be represented with the formula F(n)=826.4+0.2*(n-4132), 4132<=n<=4233; the lowest, middle and highest channel numbers (ARFCHs) used and tested in this report are separately 4132 (826.4MHz), 4175(835MHz) and 4233 (846.6MHz).

Note 4: The transmitter (Tx) frequency arrangement of the WCDMA 1900MHz band used by the EUT can be represented with the formula F(n)=1852.4+0.2*(n-9262), 9262<=n<=9538; the lowest, middle and highest channel numbers (ARFCHs) used and tested in this report are separately 9262 (1852.4MHz), 9400 (1880MHz) and 9538 (1907.6MHz).

Note 5: Note 4: The transmitter (Tx) frequency arrangement of the WCDMA 1700MHz band used by the EUT can be represented with the formula F(n)=1712.4+0.2*(n-1312), 1312<=n<=1513; the lowest, middle and highest channel numbers (ARFCHs) used and tested in this report are separately 1312 (1712.4MHz), 1412 (1732.4MHz) and 1513 (1752.6MHz).

Note 6: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

Note 7: After pre-scan test，the SIM Card 1 was the worst case，so we did the testing and recorded the results according to SIM card 1.

1.2   Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 2, Part 22 and Part 24 the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 2 (10-1-12 Edition)	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22 (10-1-12 Edition)	Public Mobile Services
3	47 CFR Part 24 (10-1-12 Edition)	Personal Communications Services
4	47 CFR Part 27 (10-1-09 Edition)	Miscellaneous Wireless Communications Services

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Result
1	2.1046	Conducted RF Output Power	PASS
2.	24.232(d), 27.50(d)(5)	Peak to average radio	PASS
2	2.1049,22.917 24.238, 27.53(g)	99% Occupied Bandwidth	PASS
3	2.1055,22.355 24.235,27.54	Frequency Stability	PASS
4	2.1051,2.1057 22.917,24.238 27.53(g)	Conducted Out of Band Emissions	PASS
5	2.1051,2.1057 22.917,24.238 27.53(g)(h)	Band Edge	PASS
6	22.913,24.232 27.50(d)(4)	Transmitter Radiated Power (EIPR/ERP)	PASS
7	2.1053,2.1057 22.917,24.238 27.53(g)	Radiated Out of Band Emissions	PASS

NOTE：Measurement method according to TIA/EIA 603.D-2010

1.3 Facilities and Accreditations

1.3.1 Facilities

Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L3572.

All measurement facilities used to collect the measurement data are located at FL.1, Building A, FeiYang Science Park, No.8 LongChang Road,Block 67, BaoAn District, ShenZhen, GuangDong Province,P. R. China 518101. The test site is constructed in conformance with the requirements of ANSI C63.7, 2006.ANSI C63.4, 2009 and CISPR Publication 22; the FCC registration number is 695796.

1.3.2 Test Environment Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15 - 35
Relative Humidity (%):	30 -60
Atmospheric Pressure (kPa):	86-106

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# 2. 47 CFR PART 2, PART 22H & 24E 27L REQUIREMENTS

2.1 Conducted RF Output Power

2.1.1 Requirement

According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

2.1.2 Test Description

1. Test Setup:
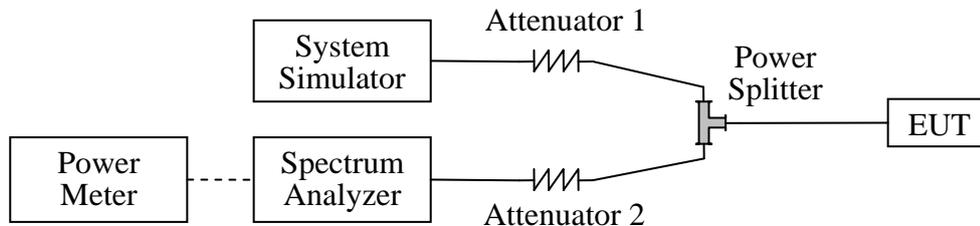
The EUT, which is powered by the Battery, is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS.

The Power Meter was just used for the Conducted RF Output Power test of WCDMA Model.

2. Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
System Simulator	Agilent	E5515C	GB43130131	2013.05	2014.05
Spectrum Analyzer	Agilent	E7405A	US44210471	2013.05	2014.05
Power Meter	Agilent	E4418B	GB43318055	2013.05	2014.05
Power Sensor	Agilent	8482A	MY41091706	2013.05	2014.05
Power Splitter	Weinschel	1506A	NW521	2013.05	2014.05
Attenuator 1	Resnet	20dB	(n.a.)	2013.05	2014.05
Attenuator 2	Resnet	3dB	(n.a.)	2013.05	2014.05

2.1.3 Test Results

Here the lowest, middle and highest channels are selected to perform testing to verify the conducted RF output power of the EUT.

1. GSM Model Test Verdict:

Band	Channel	Frequency (MHz)	Measured Output Power		Limit dBm	Verdict
			dBm	Refer to Plot		
GSM 850MHz	128	824.2	31.77	Plot A1 to A3	35	PASS
	190	836.6	31.82			PASS
	251	848.8	31.77			PASS
GSM 1900MHz	512	1850.2	28.59	Plot B1 to B3	32	PASS
	661	1880.0	28.95			PASS
	810	1909.8	28.64			PASS
GPRS 850MHz	128	824.2	31.49	Plot C1 to C3[Note 1]	35	PASS
	190	836.6	31.58			PASS
	251	848.8	31.52			PASS
GPRS 1900MHz	512	1850.2	28.45	Plot D1 to D3[Note 1]	32	PASS
	661	1880.0	28.80			PASS
	810	1909.8	28.45			PASS
EGPRS 850MHz	128	824.2	31.67	Plot E1 to E3[Note 1]	35	PASS
	190	836.6	31.73			PASS
	251	848.8	31.67			PASS
EGPRS 1900MHz	512	1850.2	28.28	Plot F1 to F3[Note 1]	32	PASS
	661	1880.0	28.76			PASS
	810	1909.8	28.51			PASS

Note 1: For the GPRS and EGPRS model, all the slots were tested and just the worst data was record in this report.

2. WCDMA Model Test Verdict:

Item	band	WCDMA 850			WCDMA 1900		
	ARFCN	4132	4175	4233	9262	9400	9538
	subtest	dBm			dBm		
5.2(WCDMA)	non	24.95	24.57	24.59	23.54	24.07	24.71
HSDPA	1	24.77	24.56	24.57	23.21	23.70	23.33
	2	24.74	24.53	24.58	23.26	23.74	23.35
	3	24.26	24.04	24.06	22.78	23.24	22.84
	4	24.23	24.06	24.05	22.76	23.25	22.82
HSUPA	1	24.74	24.48	24.58	23.53	24.05	23.03
	2	22.75	22.48	22.57	21.56	22.02	21.05
	3	23.73	23.46	23.57	22.54	23.06	22.04
	4	22.74	22.47	22.54	21.58	22.02	21.06
	5	24.73	24.48	24.57	23.52	24.04	23.04
HSPA+	1	24.93	24.54	24.56	23.51	24.03	23.07
Note:	The Conducted RF Output Power test of WCDMA /HSDPA /HSUPA /HSPA+ was tested by power meter.						

Item	band	WCDMA 1700		
	ARFCN	1312	1412	1513
	subtest	dBm		
5.2(WCDMA)	non	24.68	24.59	24.57
HSDPA	1	24.63	24.55	24.52
	2	24.62	24.54	24.51
	3	24.14	24.09	24.03
	4	24.13	24.07	24.02
HSUPA	1	24.62	24.51	24.49
	2	22.65	22.57	22.53
	3	23.63	23.53	23.47
	4	22.61	22.53	22.51
	5	24.59	24.50	24.48
HSPA+	1	24.61	24.50	24.47
Note	The Conducted RF Output Power test of WCDMA /HSDPA /HSUPA /HSPA+ was tested by power meter.			

3. GSM Model Test Plots:

(Plot A1:GSM 850MHz Channel = 128)
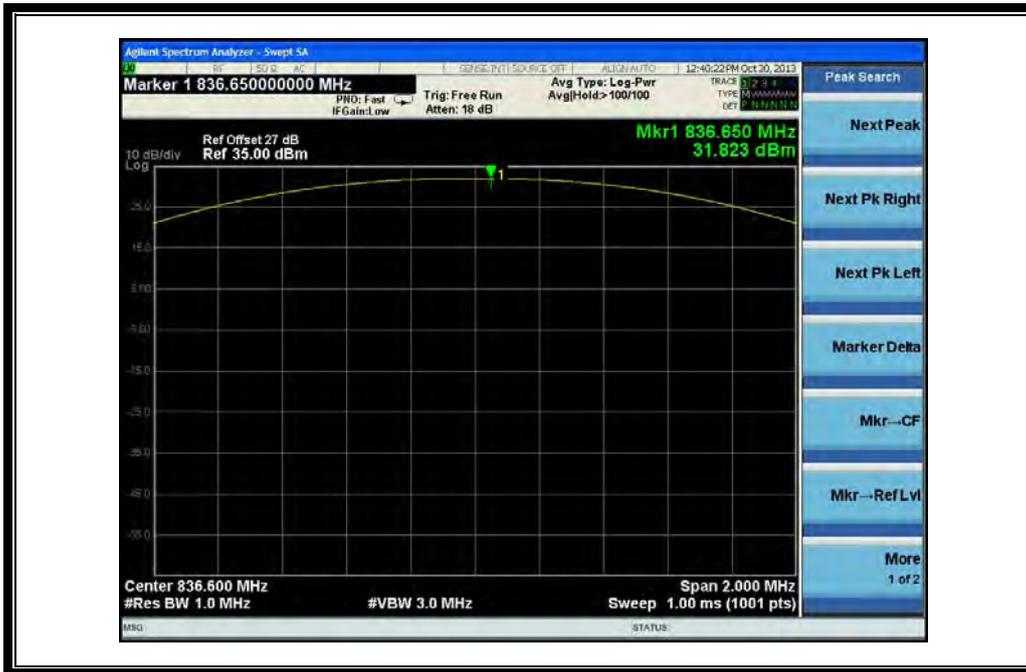
(Plot A2:GSM 850MHz Channel = 190)
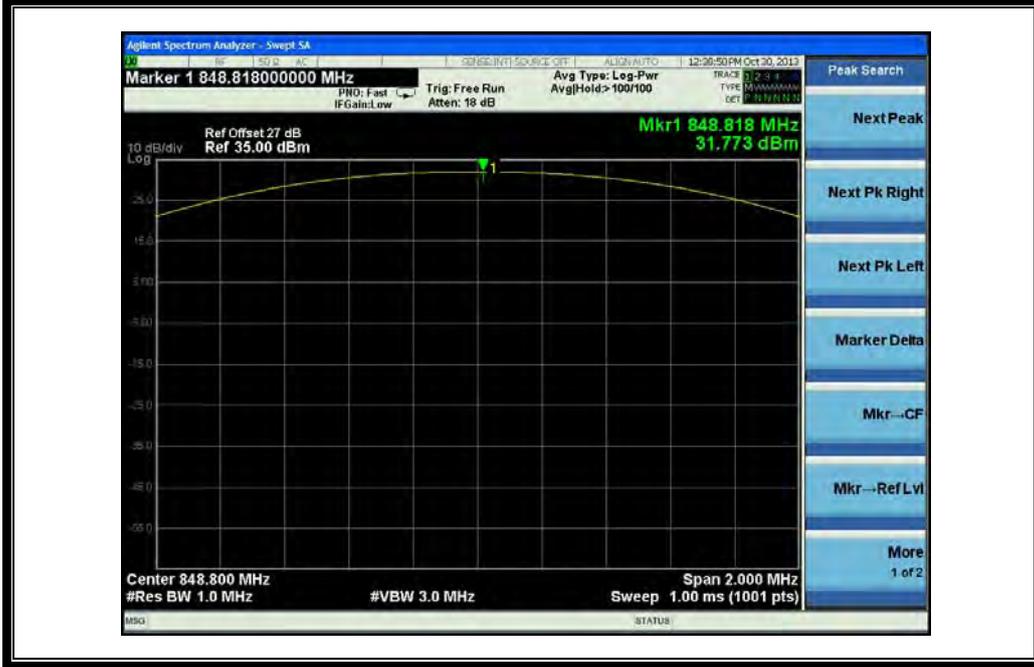
(Plot A3:GSM 850MHz Channel = 251)
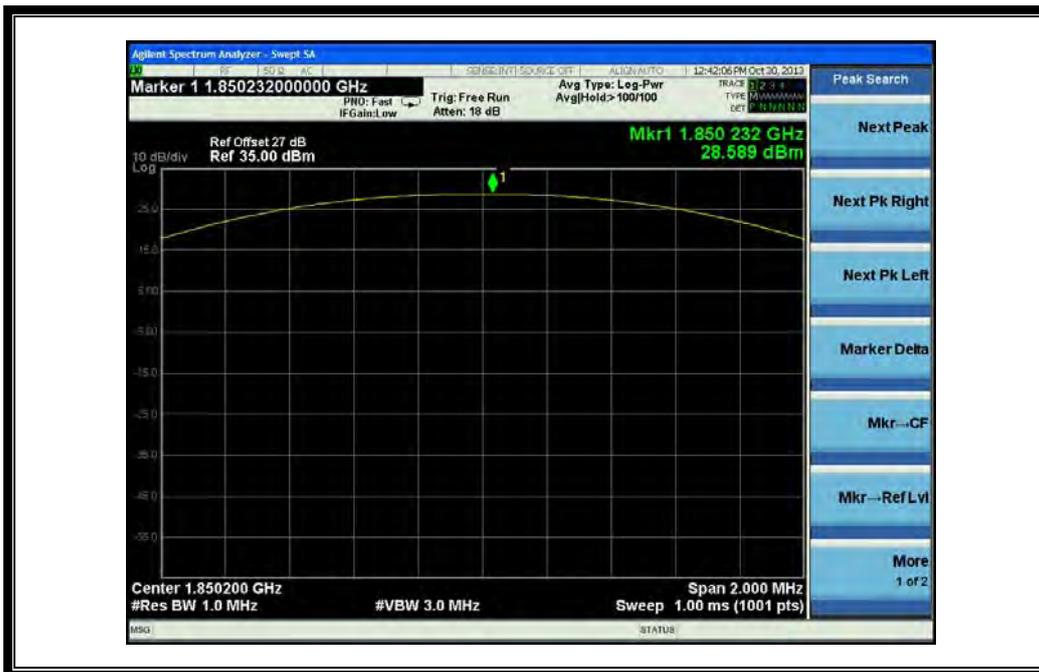
(Plot B1:   GSM 1900MHz Channel = 512)
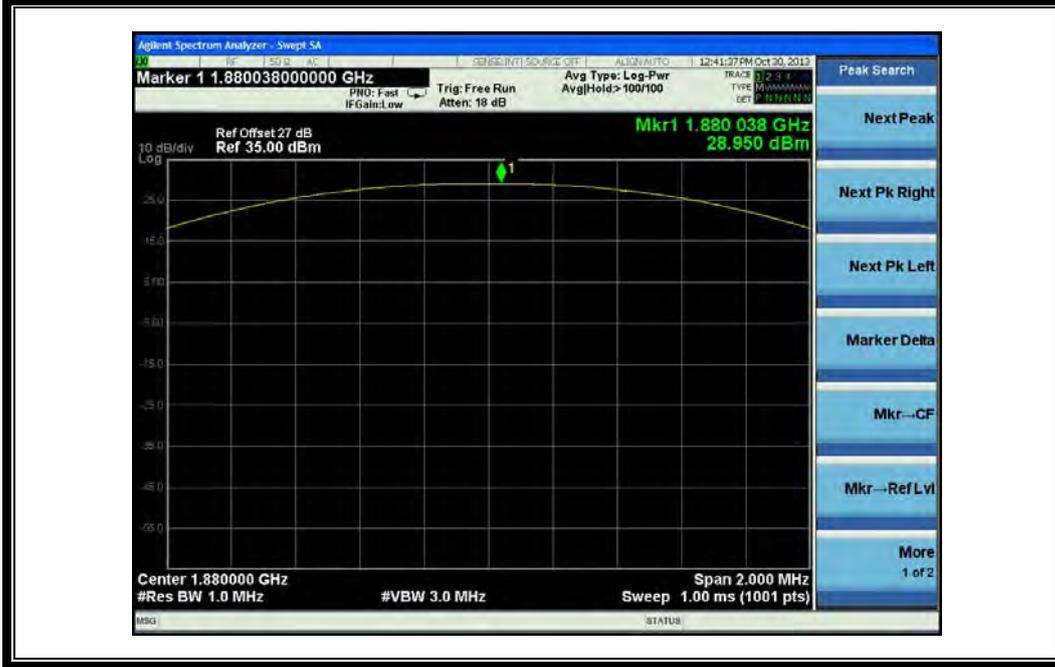
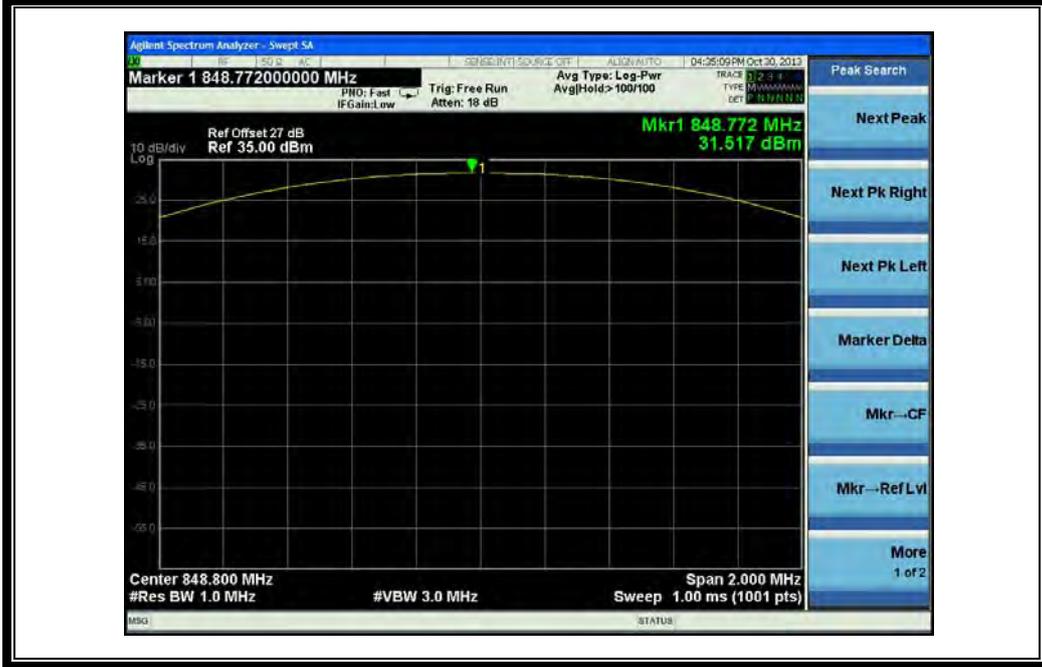(Plot B2:   GSM 1900MHz Channel = 661)

(Plot B3:   GSM 1900Hz Channel = 810)
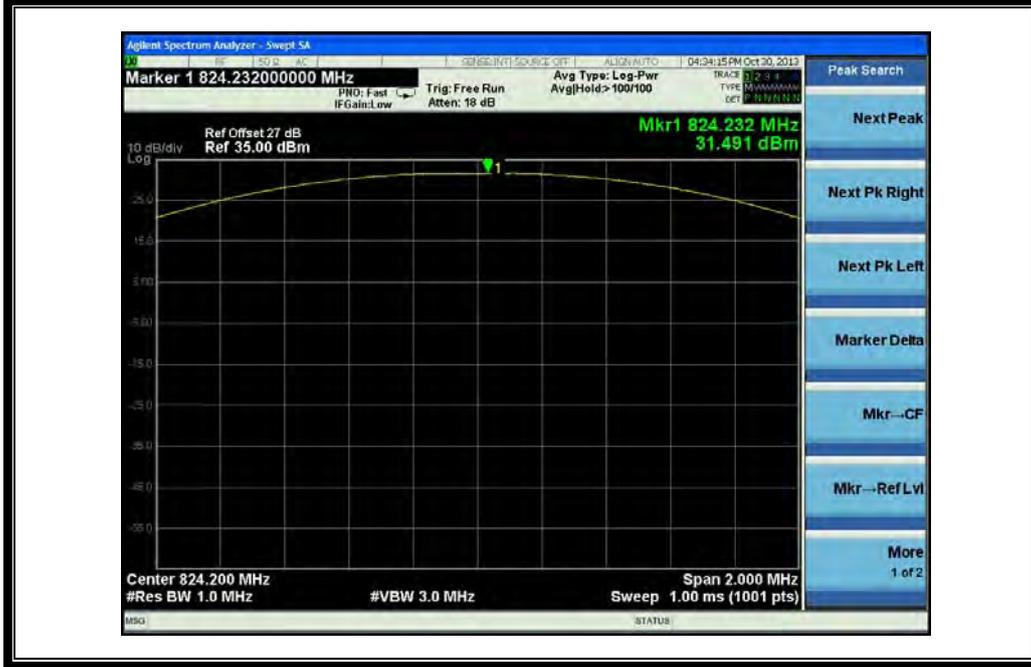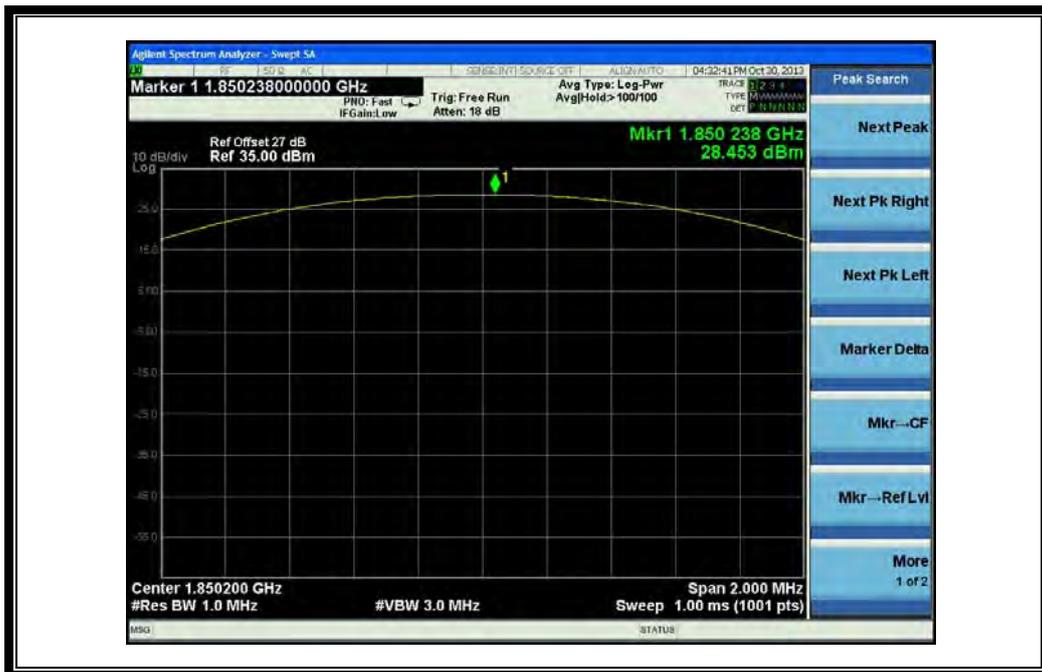
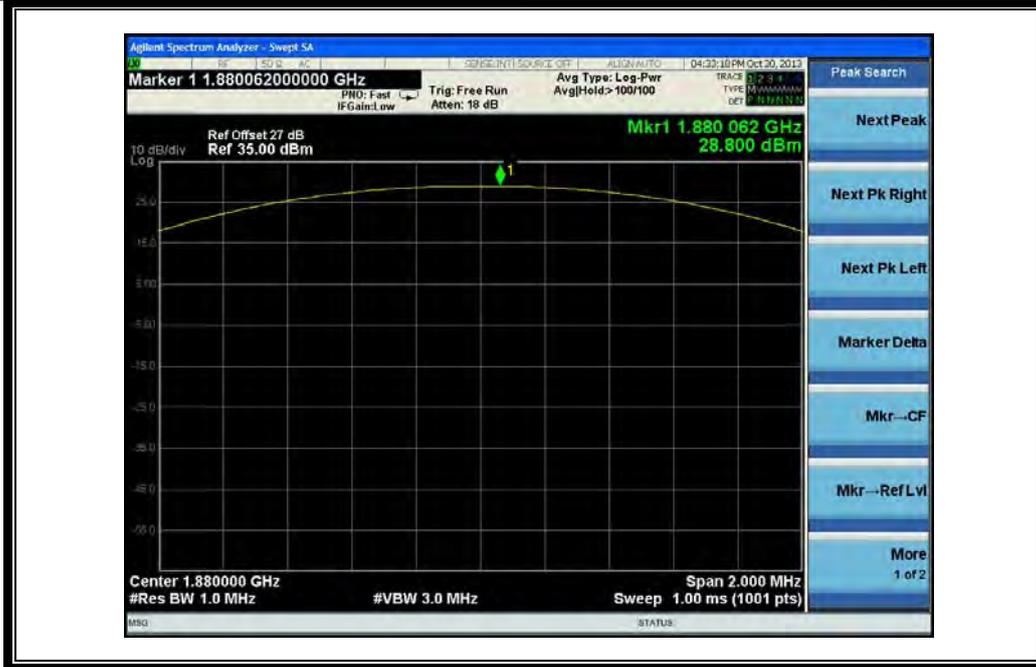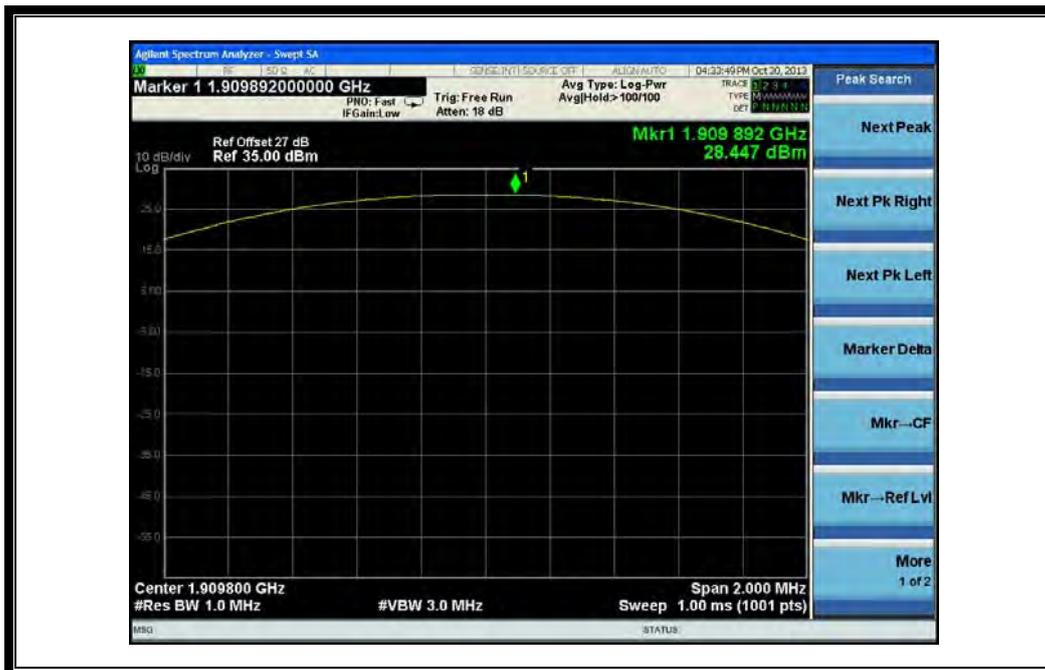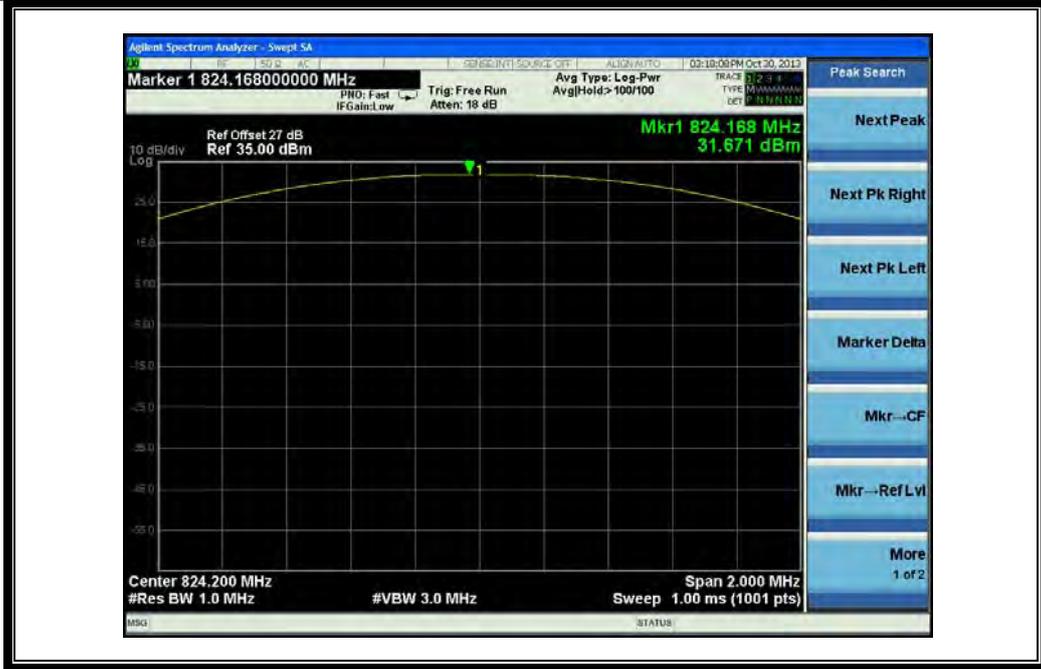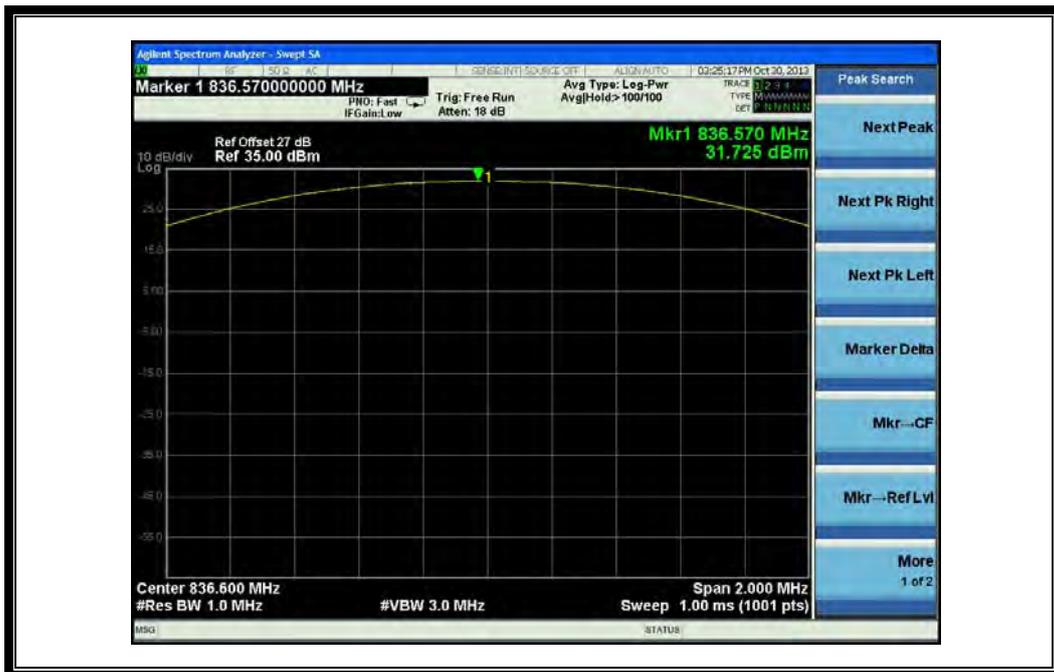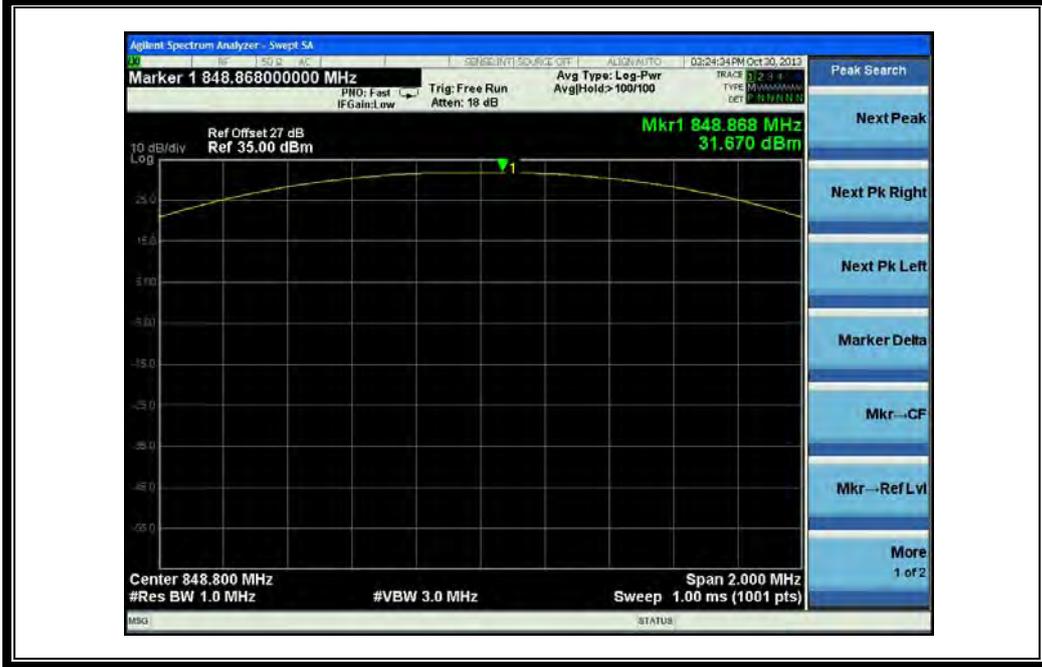(Plot C 1:   GPRS 850MHz Channel = 128)
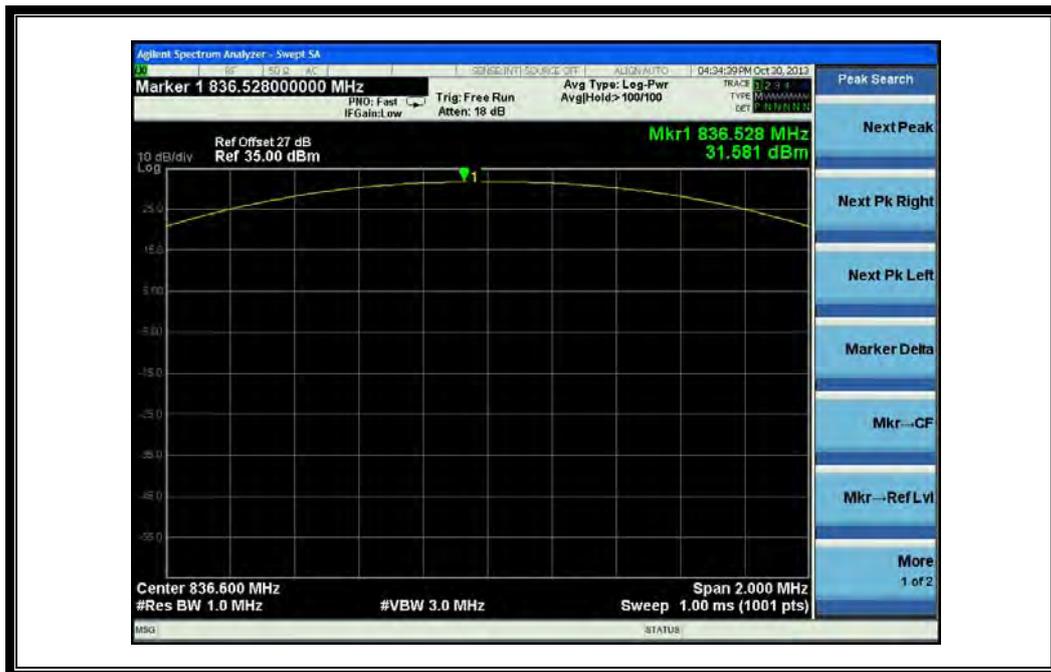
(Plot C 2:   GPRS 850MHz Channel = 190)

(Plot C 3:　　GPRS 850MHz Channel = 251)

(Plot D 1:　　GPRS 1900MHz Channel = 512)

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(Plot D 2:　　GPRS 1900MHz Channel = 661)

(Plot D 3:　　GPRS 1900MHz Channel = 810)

(Plot E1:   EGPRS 850MHz Channel = 128)

(Plot E2:   EGPRS 850MHz Channel = 190)

(Plot E3:   EGPRS 850MHz Channel = 251)
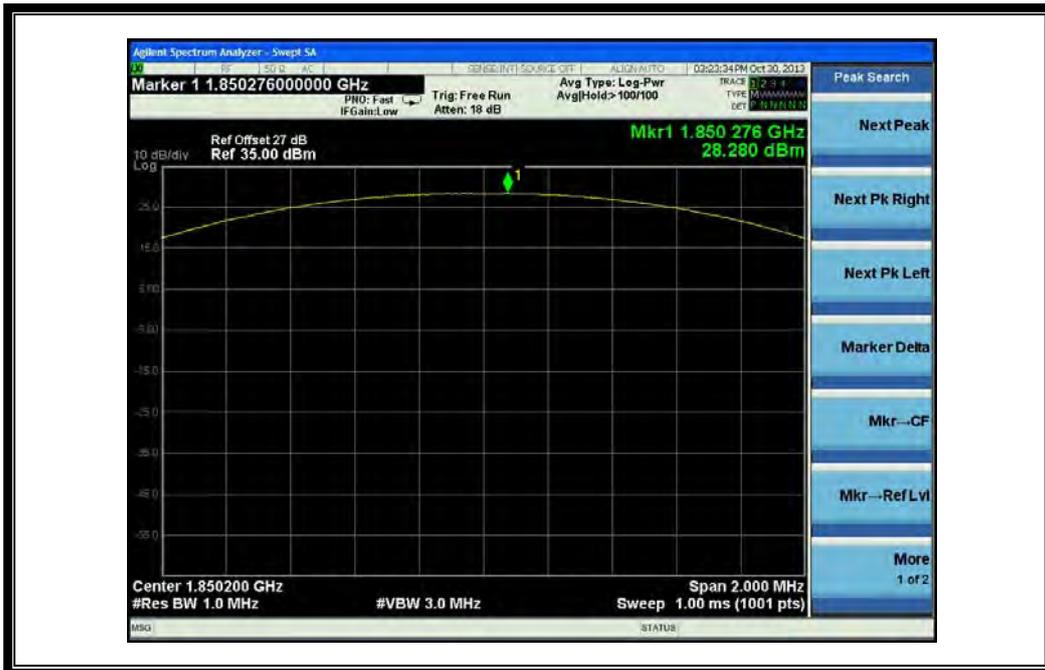
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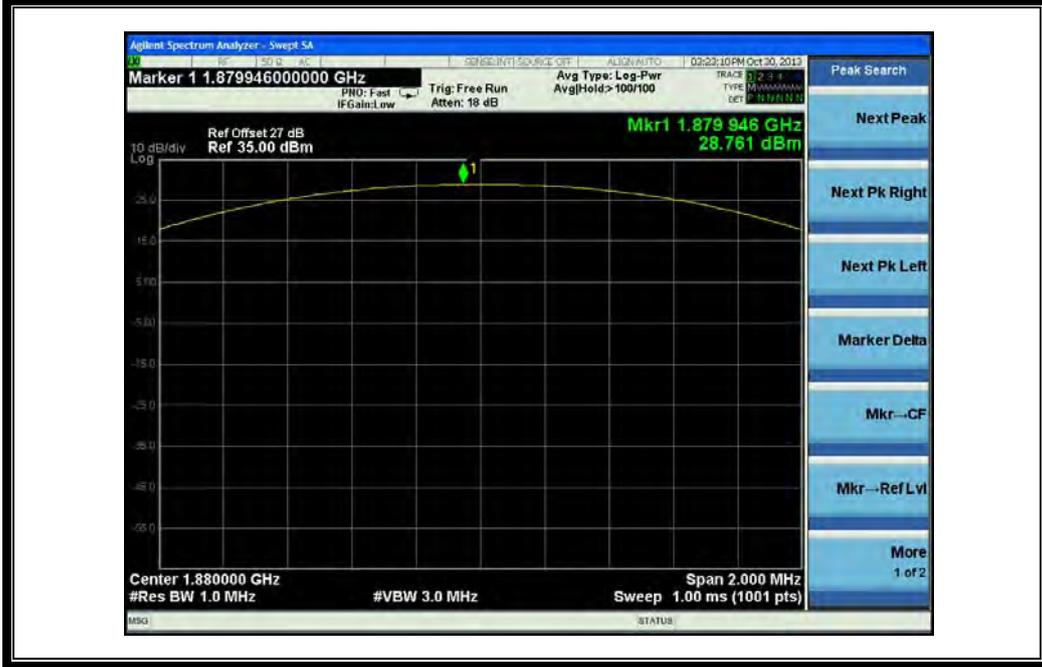
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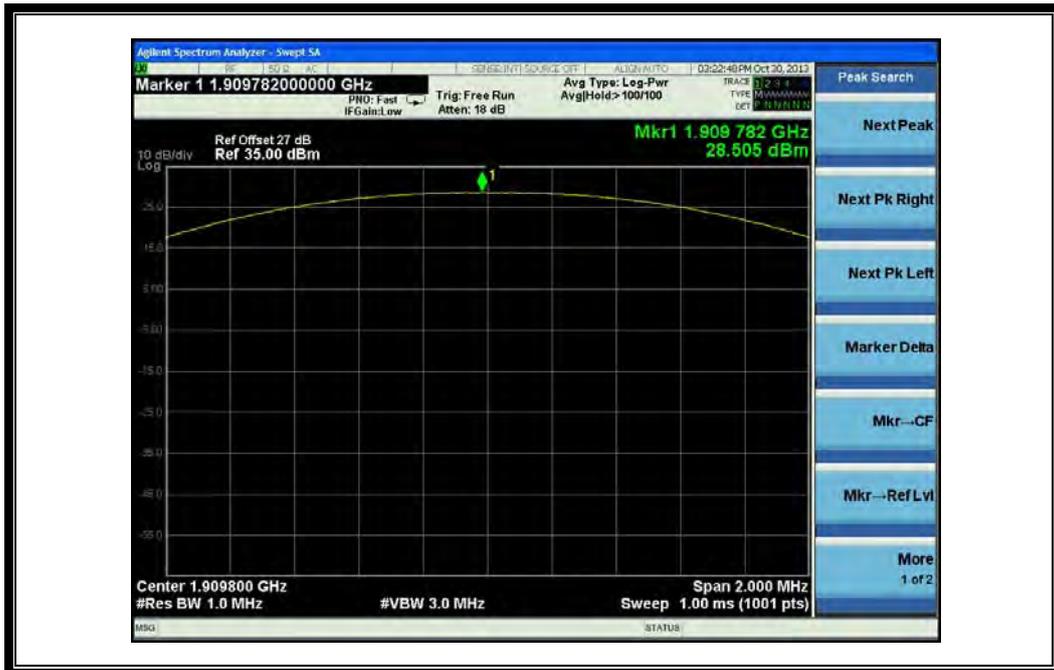
(Plot F3:EGPRS 1900Hz Channel = 810)

2.2 Peak to Average Ratio
2.2.1 Definition

According to FCC section 2.1049 and FCC 24.232(d), 27.50(d) the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

2.2.2 Test Description

See section 2.1.2 of this report.

2.2.3 Test Verdict

Here the lowest, middle and highest channels are selected to perform testing to verify the peak-to-average ratio.

Test procedures:

A .For GSM/EGPRS operating mode:

a. Set RBW=1MHz, VBW=3MHz, peak detector in spectrum analyzer.

b. Set EUT in maximum output power, and triggered the bust signal.

c. Measured respectively the peak level and mean level, and the deviation was recorded as Peak to Average radio.
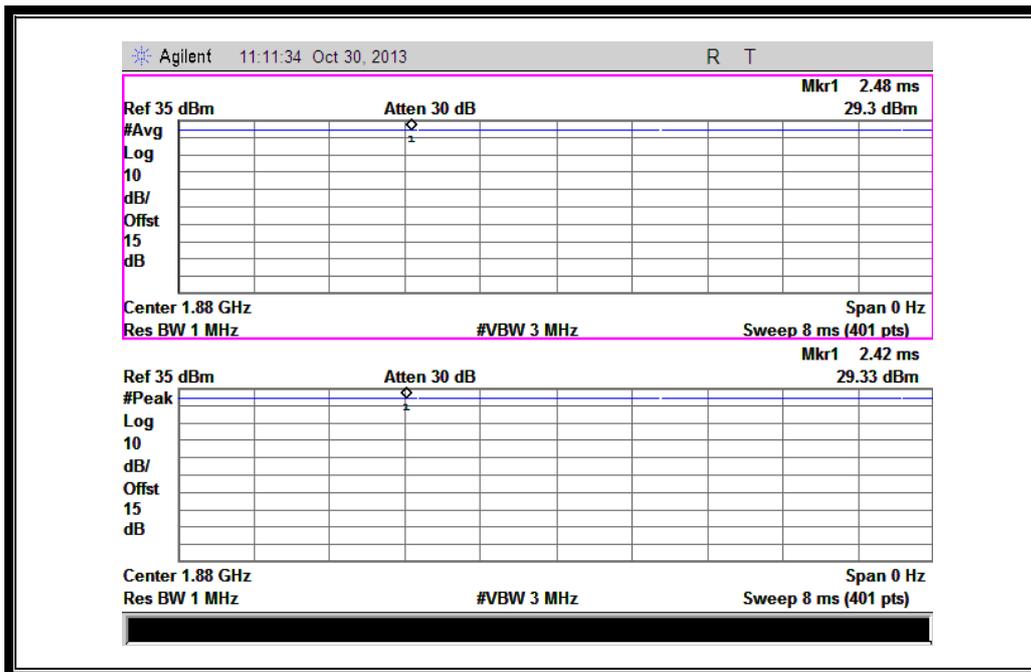
B. For UMTS operating mode:

a. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.

b. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1%.

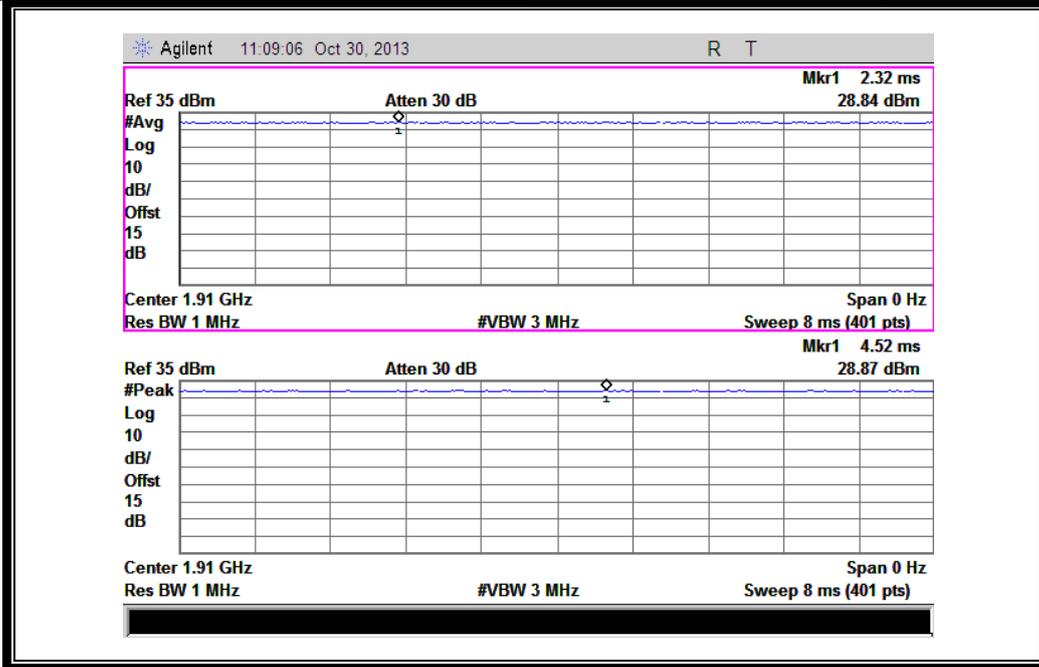Shenzhen Morlab Communications Technology Co., Ltd.

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1. Test Verdict:

Band	Channel	Frequency (MHz)	Peak to Average radio		Limit dBm	Verdict
			dBm	Refer to Plot		
GSM 1900MHz	512	1850.2	0.02	Plot A1 to A3	13	PASS
	661	1880.0	0.03			PASS
	810	1909.8	0.03			PASS
EGPRS 1900MHz	512	1850.2	0.03	Plot B1 to B3	13	PASS
	661	1880.0	0.03			PASS
	810	1909.8	0.03			PASS
WCDMA 1900MHz	9262	1852.4	3.13	Plot C1 toC3	13	PASS
	9400	1880	3.09			PASS
	9538	1907.6	2.81			PASS
HSDPA 1900MHz	9262	1852.4	3.13	Plot D1 toD3	13	PASS
	9400	1880	3.09			PASS
	9538	1907.6	2.81			PASS
HSUPA 1900MHz	9262	1852.4	3.04	Plot E1 toE3	13	PASS
	9400	1880	3.33			PASS
	9538	1907.6	3.17			PASS
HSPA+ 1900MHz	9262	1852.4	3.05	Plot F1 toF3	13	PASS
	9400	1880	3.27			PASS
	9538	1907.6	3.16			PASS
WCDMA 1700MHz	1312	1712.4	3.25	Plot G1 toG3	13	PASS
	1412	1732.4	3.36			PASS
	1513	1752.6	3.22			PASS
HSDPA 1700MHz	1312	1712.4	3.24	Plot H1 toH3	13	PASS
	1412	1732.4	3.36			PASS
	1513	1752.6	3.21			PASS
HSUPA 1700MHz	1312	1712.4	3.23	Plot I1 toI3	13	PASS
	1412	1732.4	3.34			PASS
	1513	1752.6	3.21			PASS
HSPA+ 1700MHz	1312	1712.4	3.23	Plot J1 toJ3	13	PASS
	1412	1732.4	3.35			PASS
	1513	1752.6	3.21			PASS
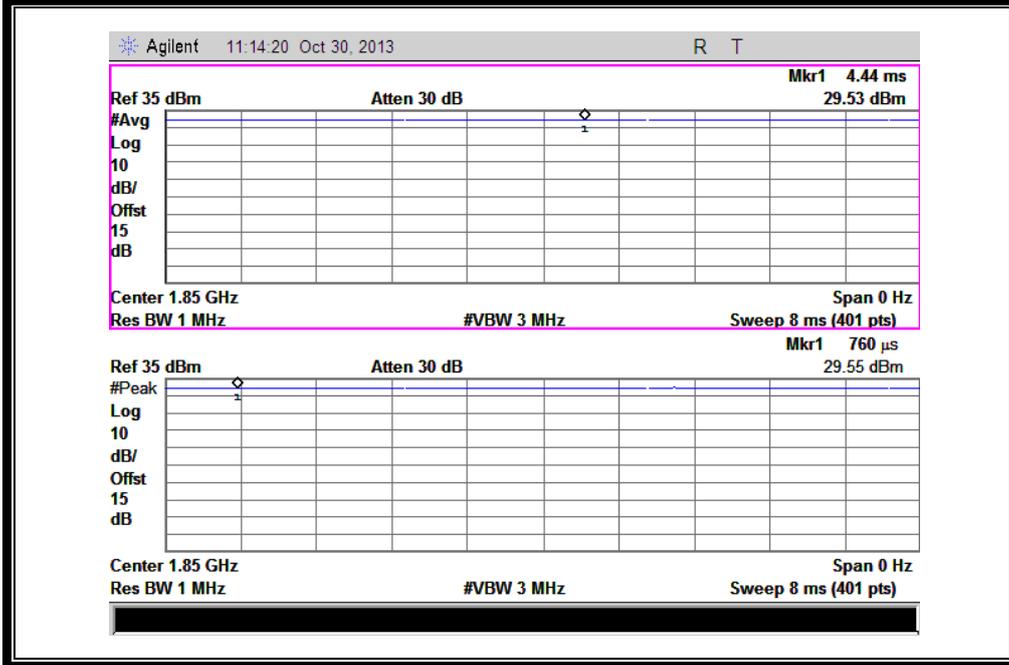
(Plot A1:GSM 1900 MHz Channel = 512)

(Plot A2:GSM 1900 MHz Channel = 661)

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(Plot A3:GSM 1900MHz Channel = 810)

(Plot B1:   EGPRS 1900MHz Channel = 512)

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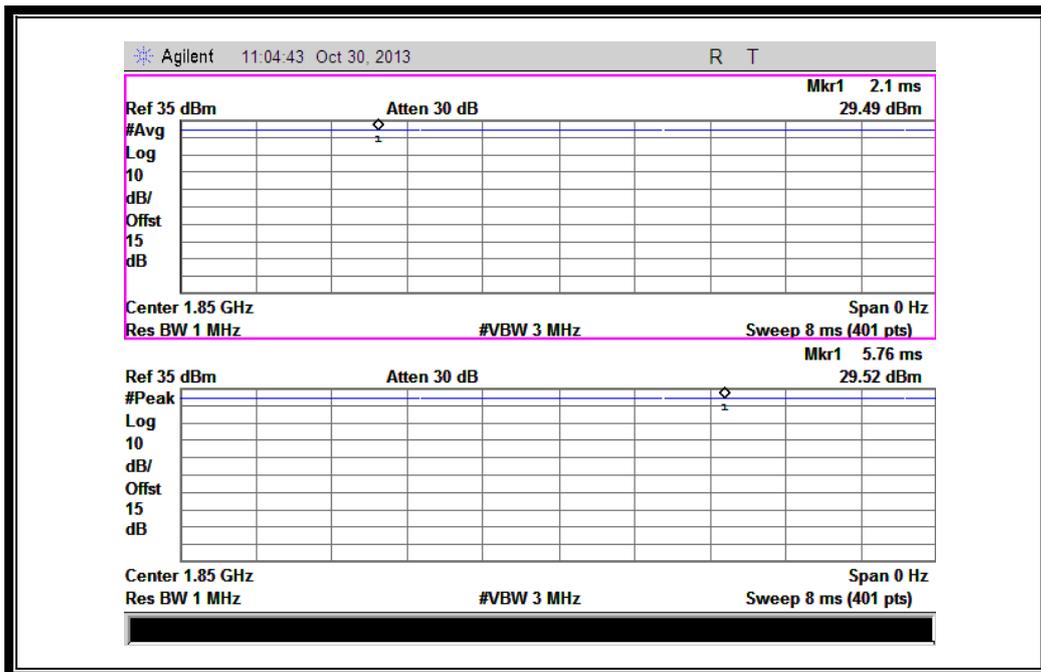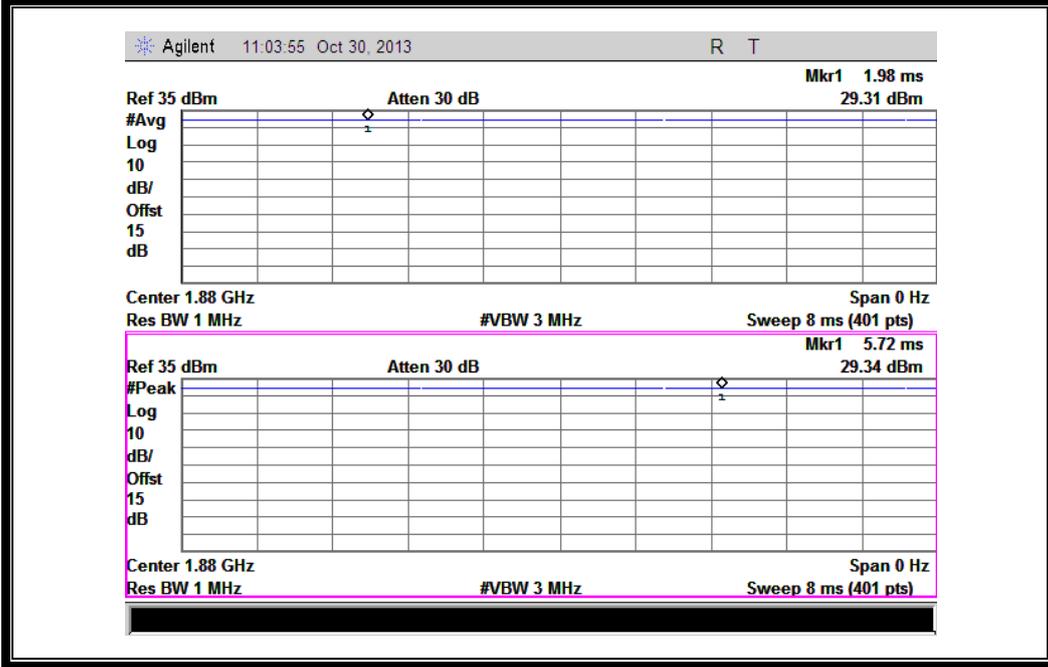
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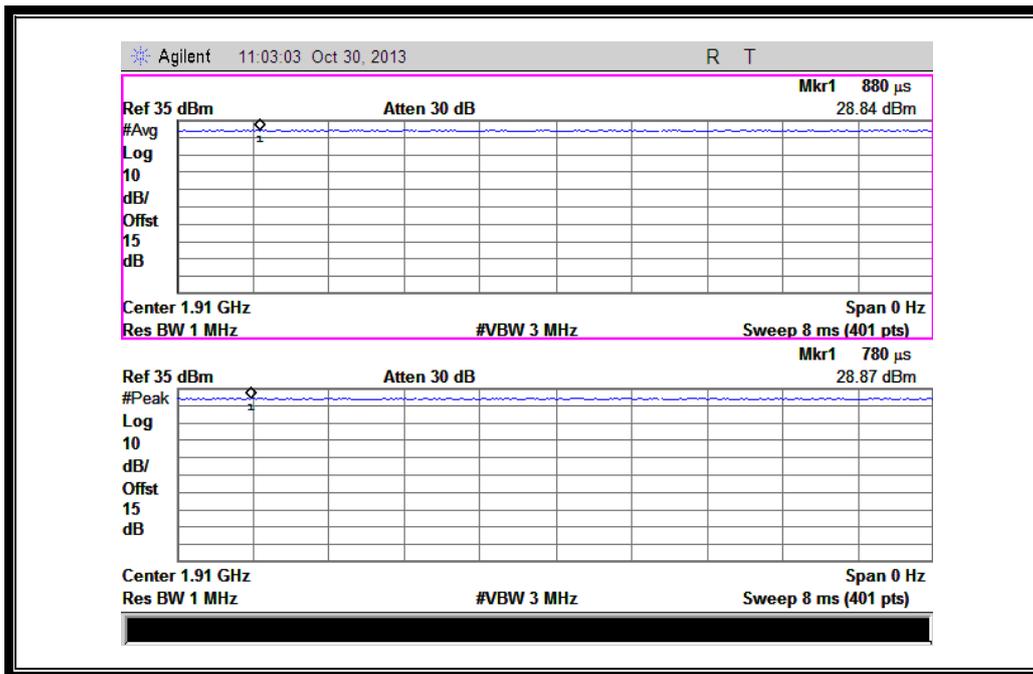
(Plot B3:   EGPRS 1900MHz Channel = 810)

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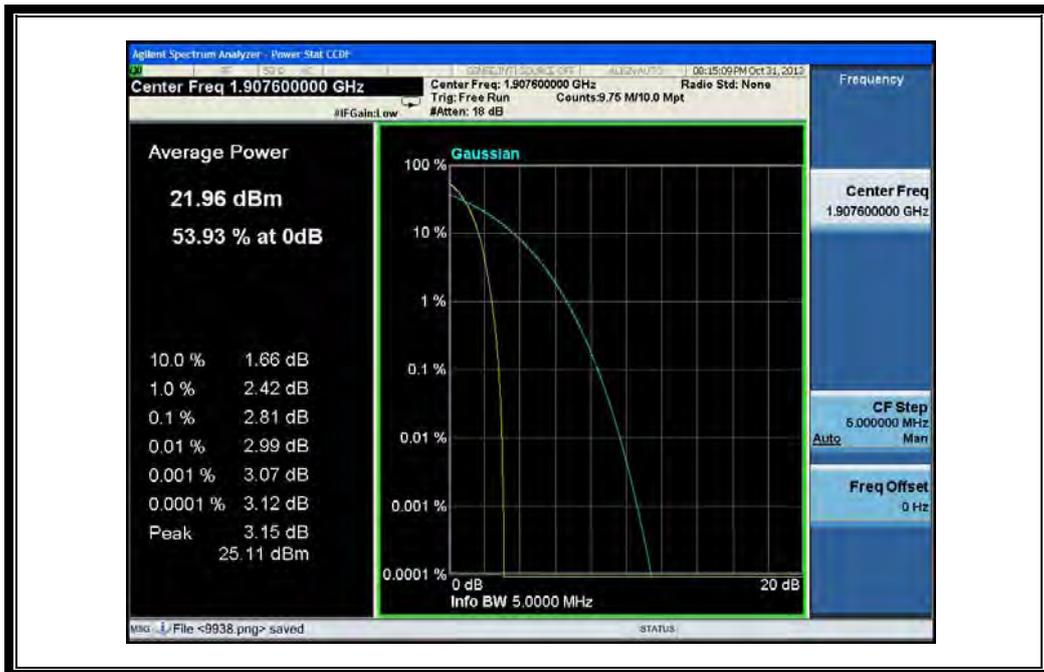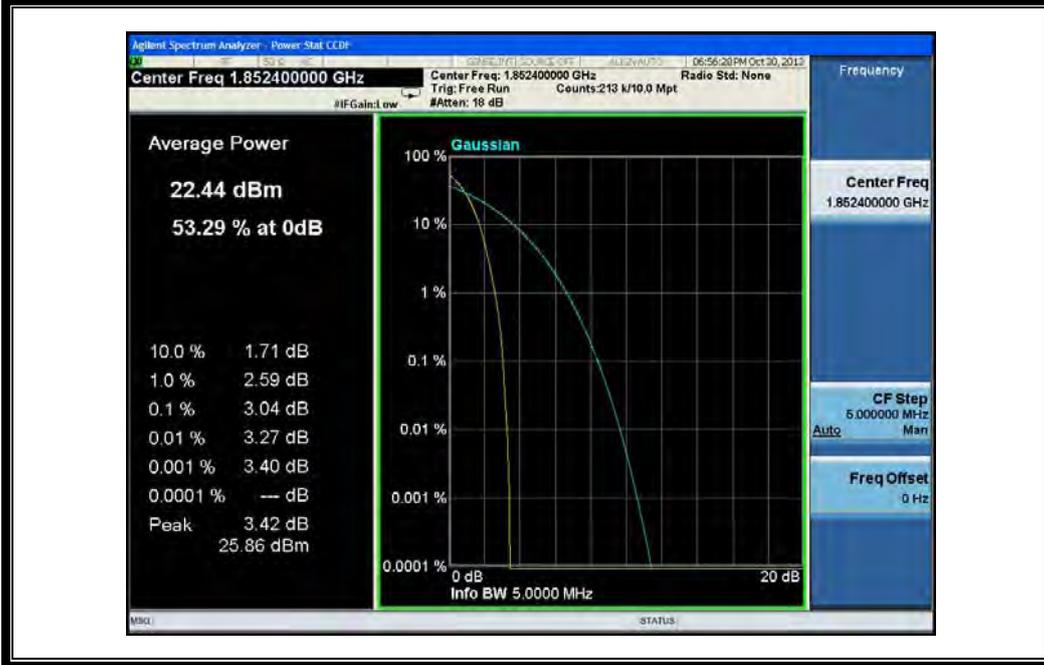Page 23 of 206
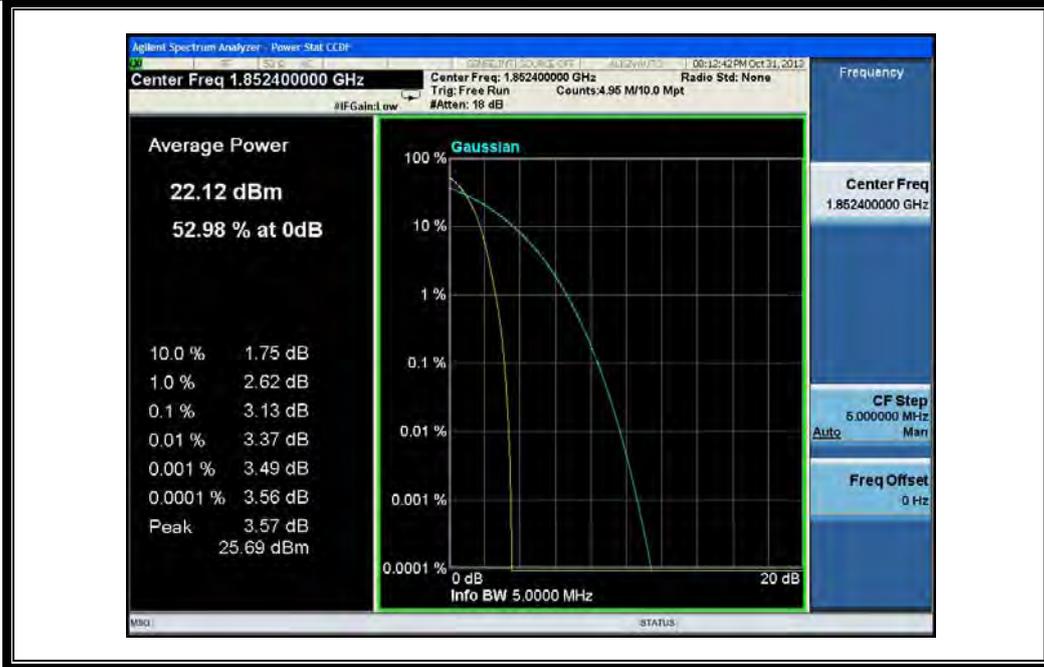
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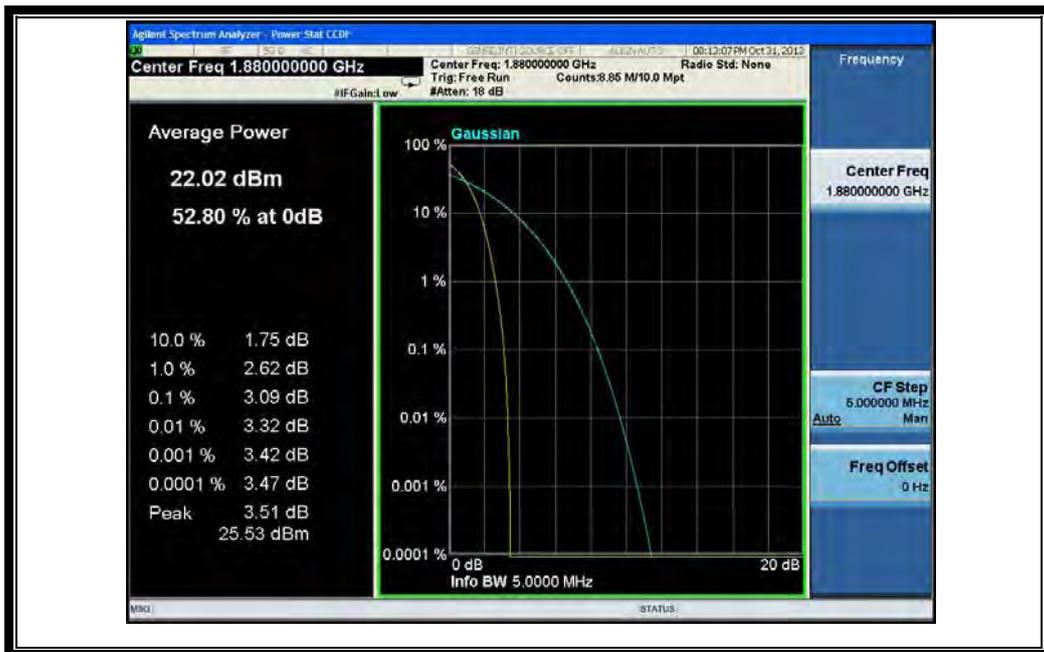
(Plot C2:   WCDMA 1900MHz Channel = 9400)
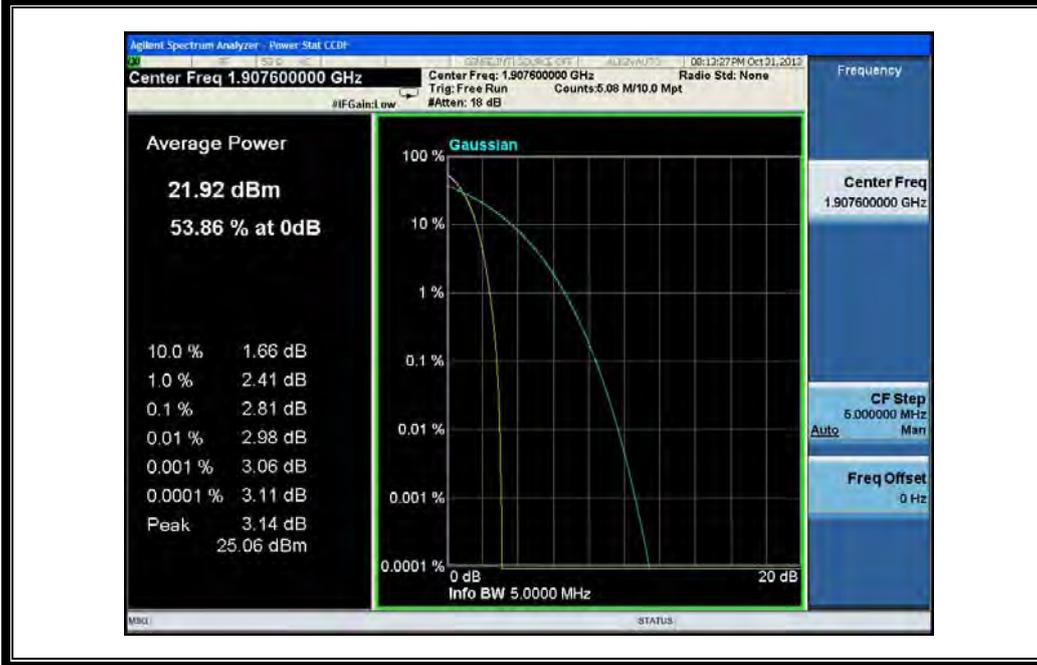
(Plot C3: WCDMA 1900MHz Channel = 9538)

(Plot D1: HSDPA 1900MHz Channel = 9262)

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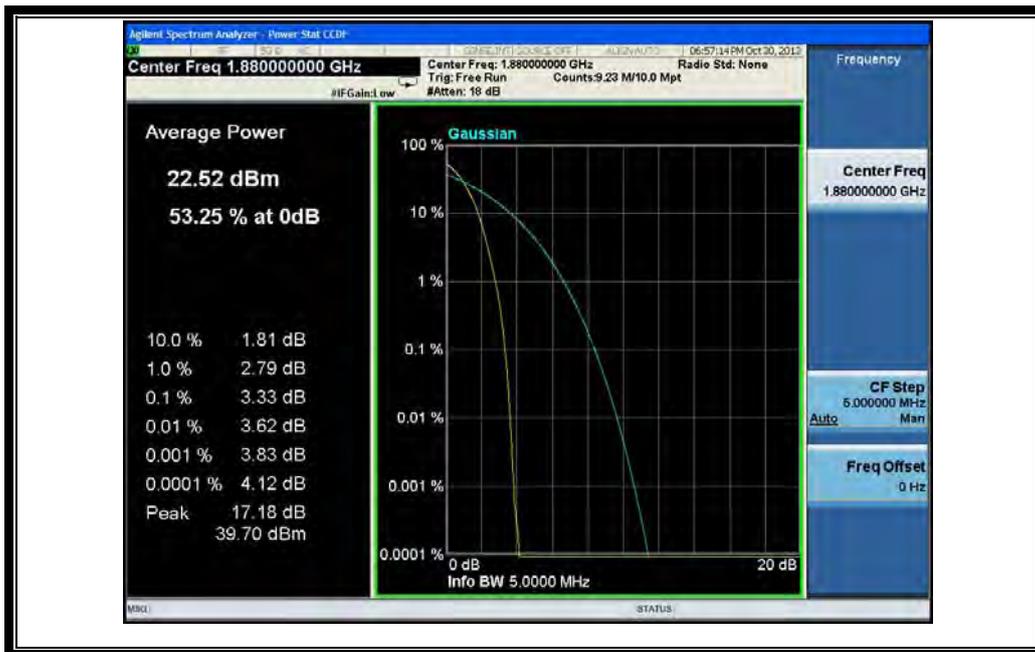Fax: +86 (0) 755 36698525
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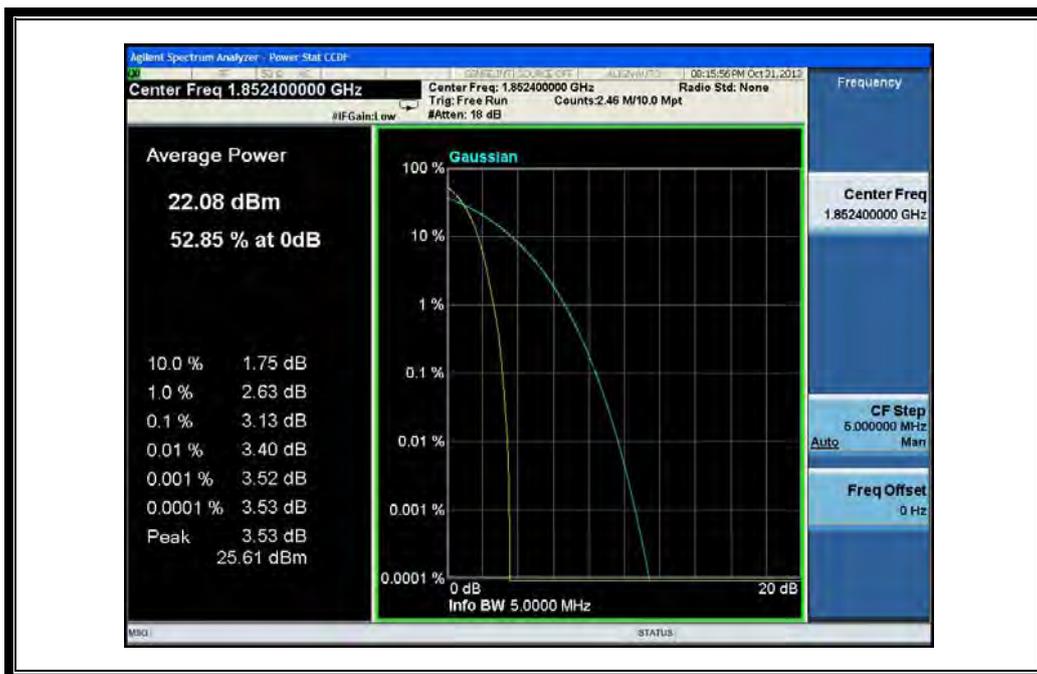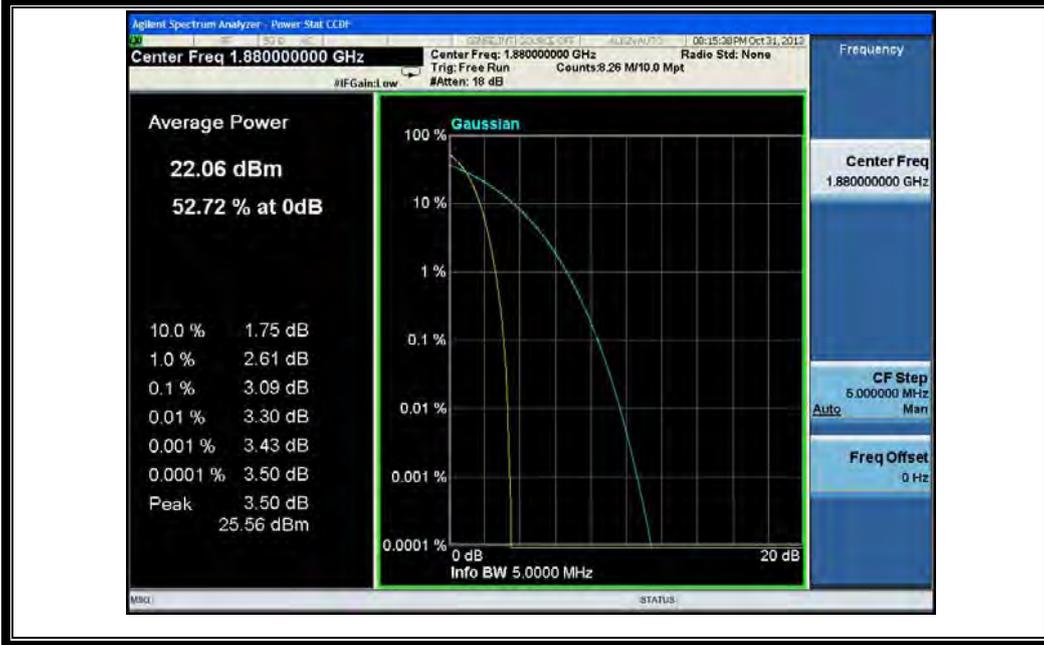
(Plot D2: HSDPA 1900MHz Channel = 9400)
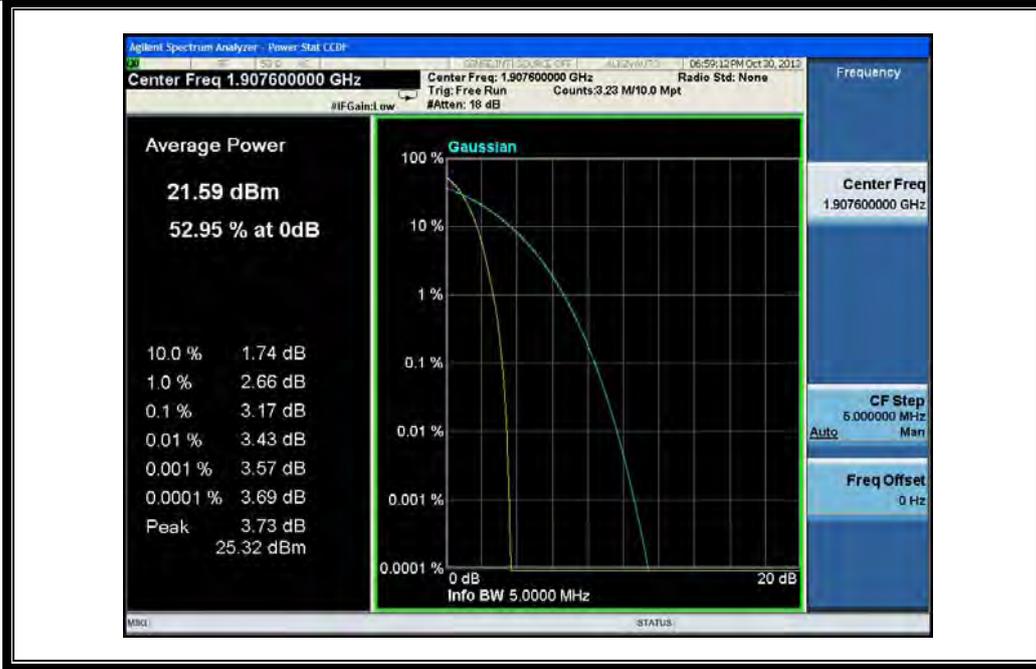

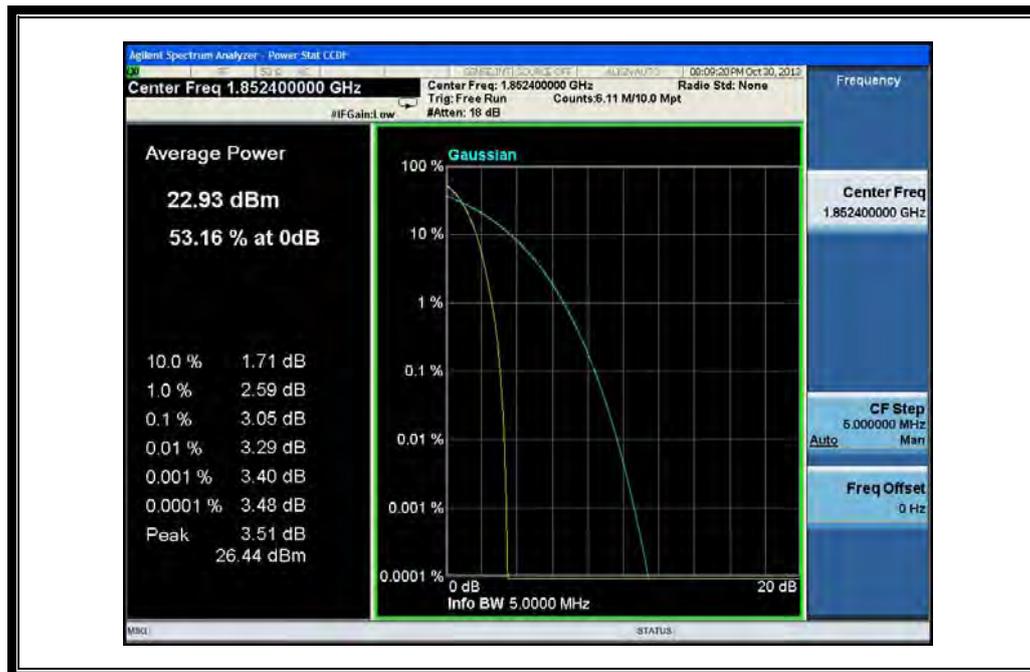(Plot D3: HSDPA 1900MHz Channel = 9538)

(Plot E1:   HSUPA 1900MHz Channel = 9262)
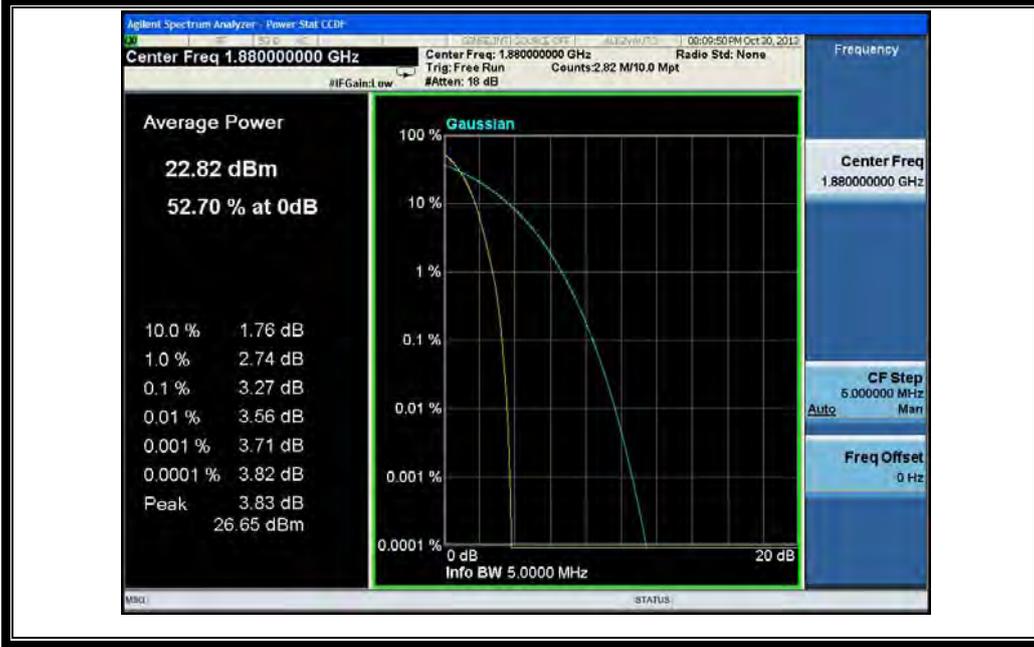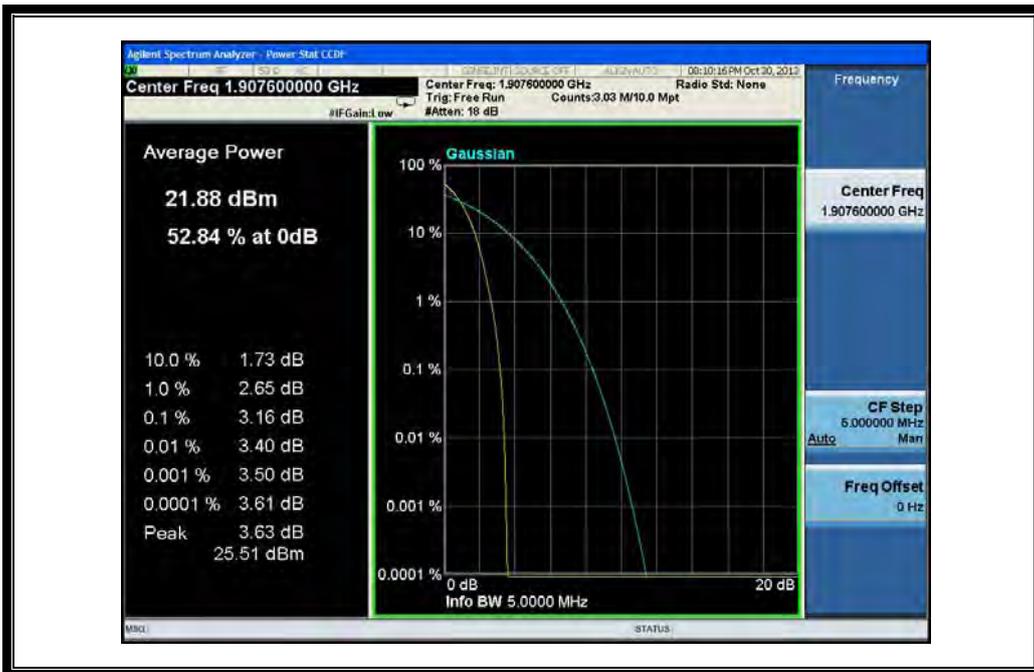

(Plot E2:   HSUPA 1900MHz Channel = 9400)

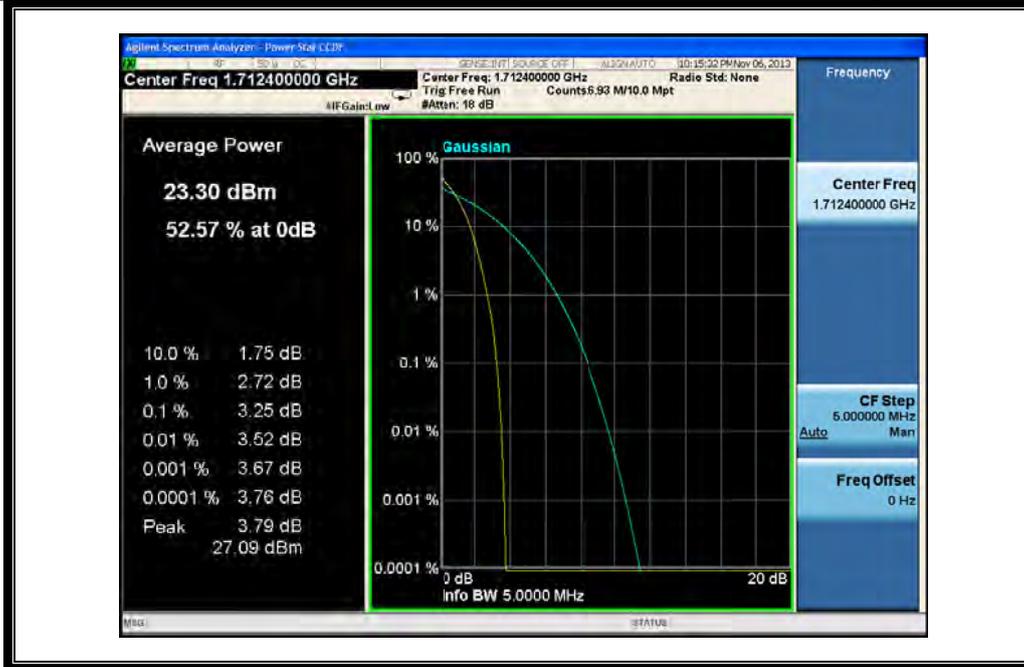(Plot E3:   HSUPA 1900MHz Channel = 9538)

(Plot F1:HSPA+ 1900MHz Channel = 9262)

(Plot F2:HSPA+ 1900MHz Channel = 9400)

(Plot F3:HSPA+ 1900MHz Channel = 9538)

(Plot G1:   WCDMA 1700MHz Channel = 1312)
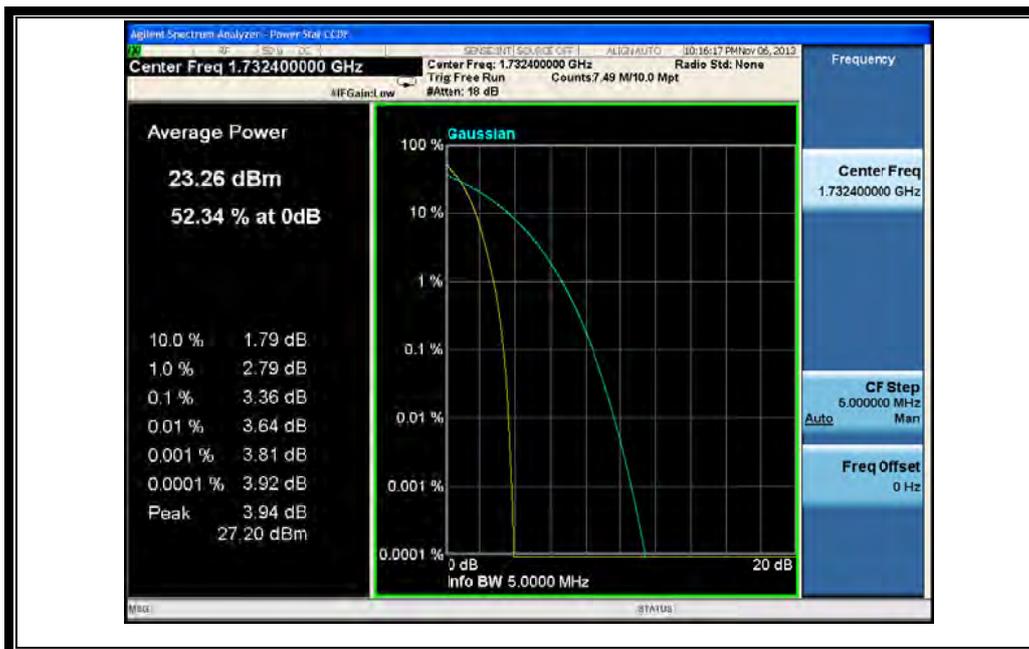
(Plot G2:   WCDMA 1700MHz Channel = 1412)

(Plot G3:　　WCDMA 1700MHz Channel = 1513)

(Plot H1:　　HSDPA 1700MHz Channel = 1312)
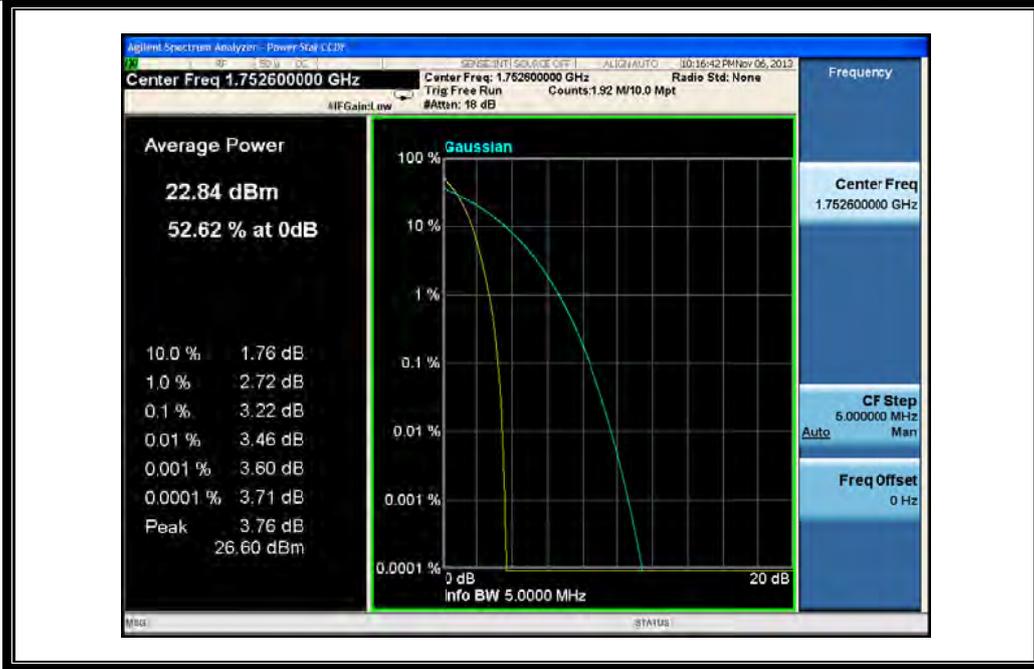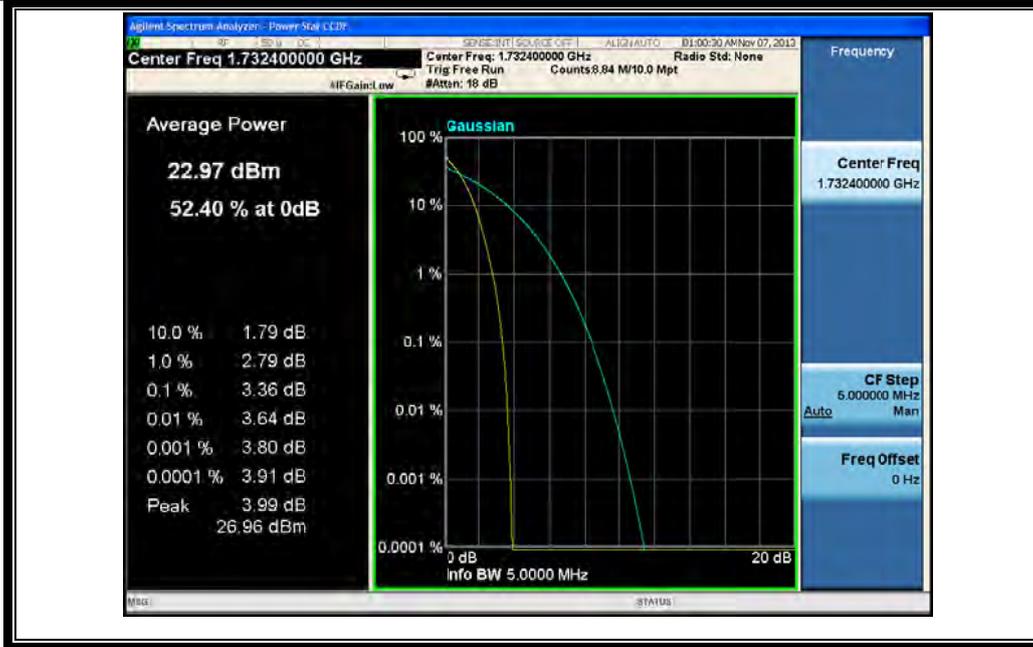
(Plot H2:   HSDPA 1700MHz Channel = 1412)
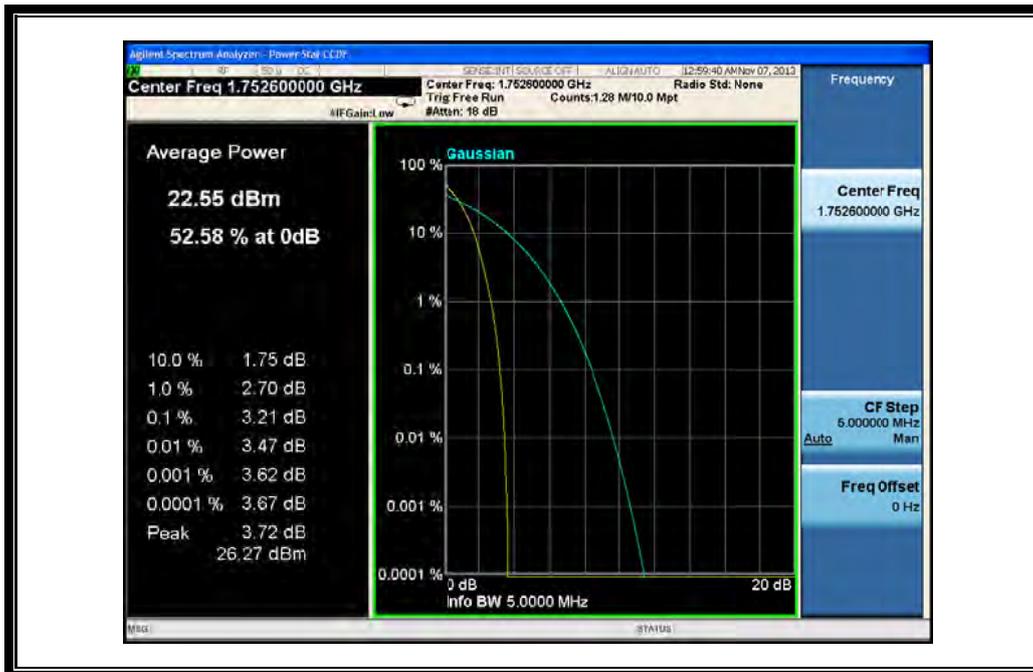
(Plot H3:   HSDPA 1700MHz Channel = 1513)

(Plot I1: HSUPA 1700MHz Channel = 1312)
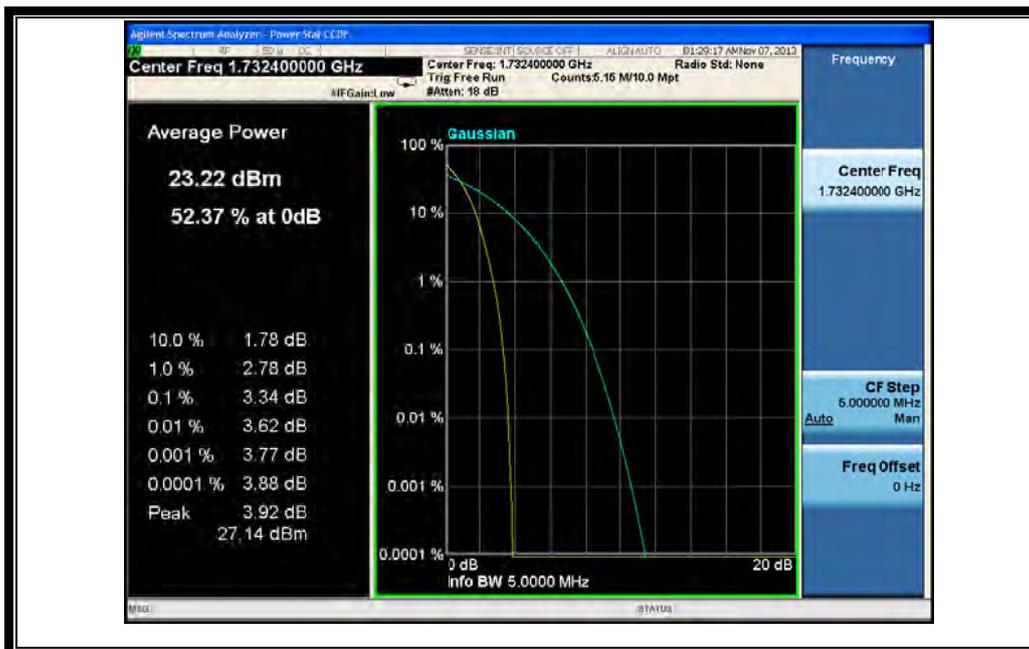
(Plot I2: HSUPA 1700MHz Channel = 1412)
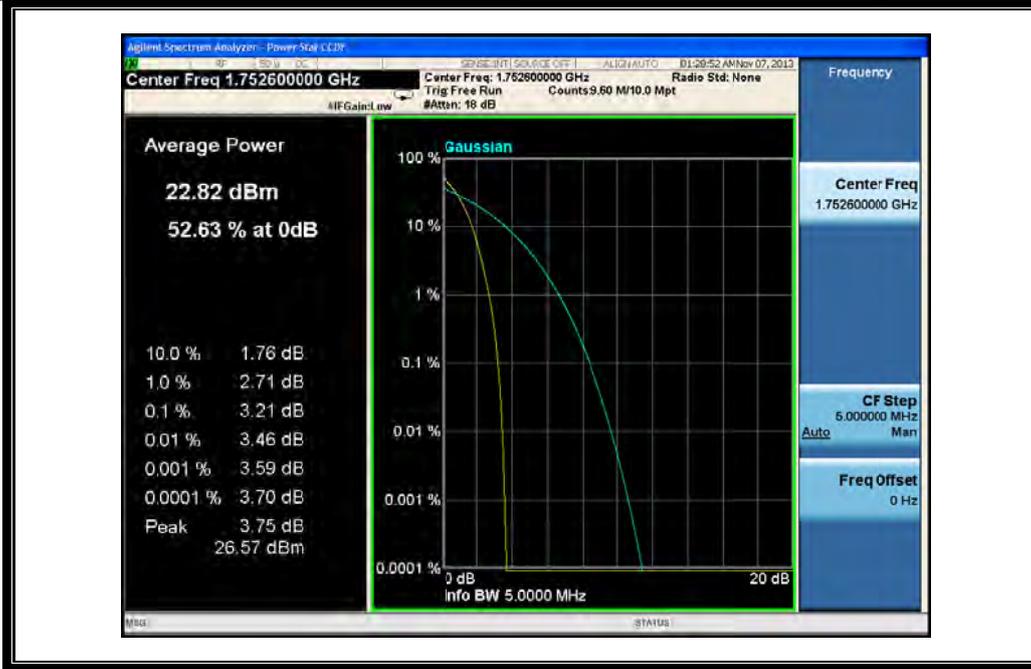
(Plot I3: HSUPA 1700MHz Channel = 1513)

(Plot J1: HSPA+ 1700MHz Channel = 1312)

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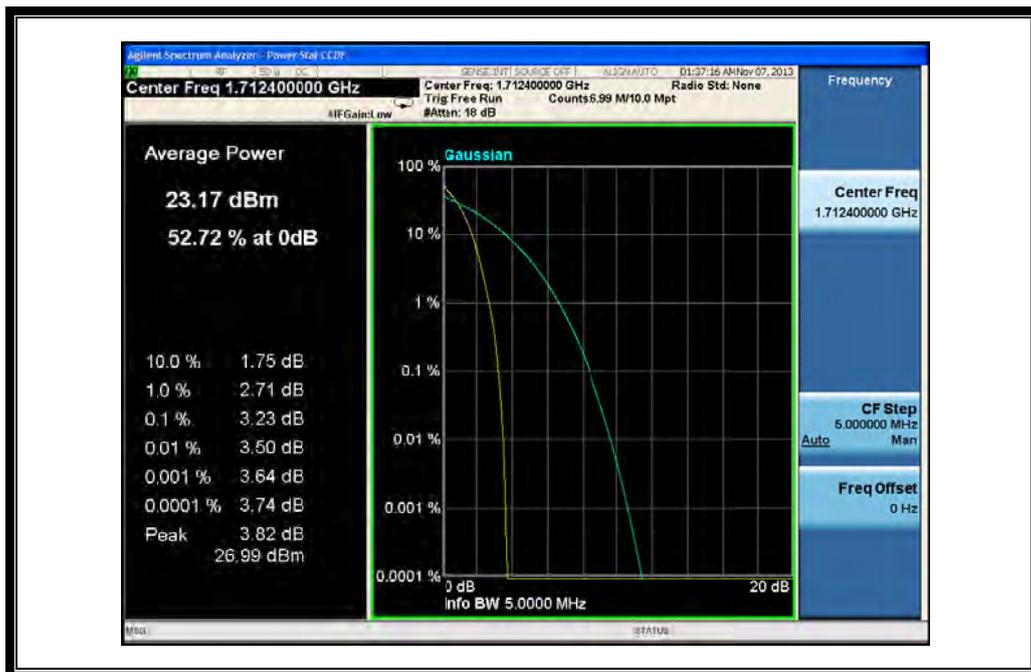
(Plot J2: HSPA+ 1700MHz Channel = 1412)
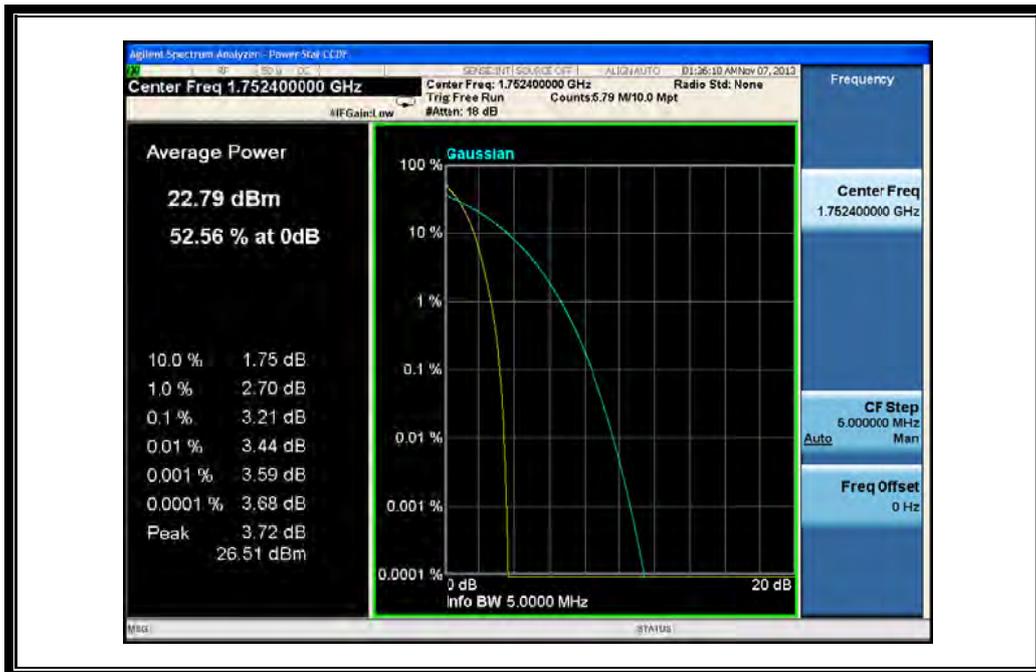
(Plot J3: HSPA+ 1700MHz Channel = 1513)

2.3   99% Occupied Bandwidth
2.3.1   Definition

According to FCC section 2.1049 and FCC § 22.917 &24.238 and 27.53(g), 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 radiated by a given emission.

Occupied bandwidth is also known as the 99% emission bandwidth,

2.3.2   Test Description

See section 2.1.2 of this report.

2.3.3   Test Verdict

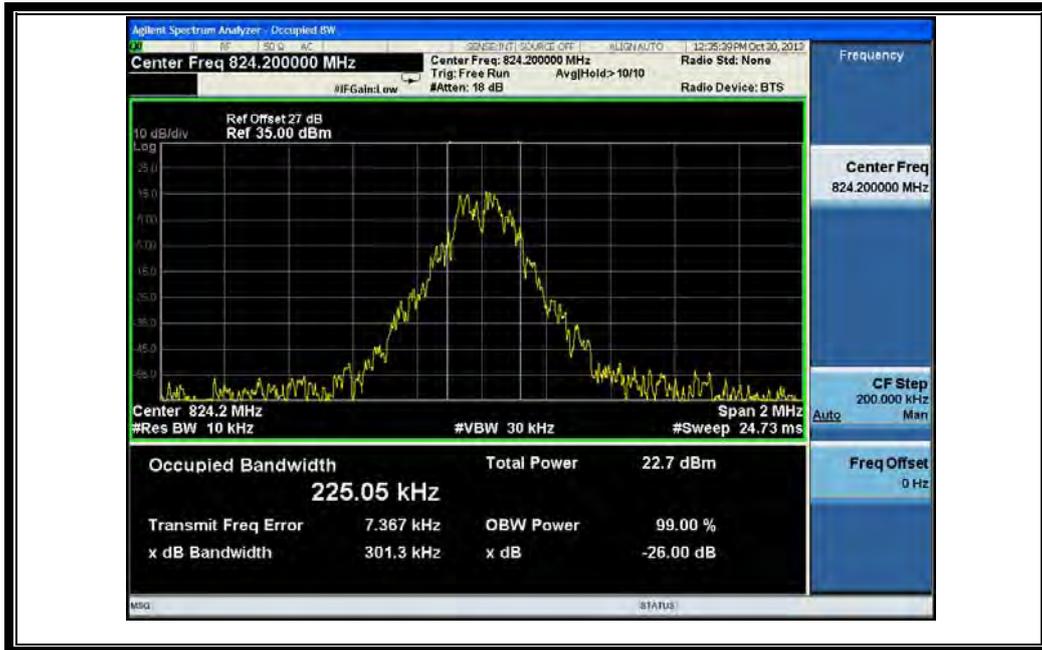Here the lowest, middle and highest channels are selected to perform testing to verify the 99% occupied bandwidth.

2. Test Verdict:

Band	Channel	Frequency (MHz)	26dB bandwidth	99% Occupied Bandwidth	Refer to Plot
EDGE 850MHz	128	824.2	301.3 KHz	225.05 KHz	Plot A
	190	836.6	302.9 KHz	223.76 KHz	Plot B
	251	848.8	289.0 KHz	253.40 KHz	Plot C
EDGE 1900MHz	512	1850.2	318.9 KHz	245.21 KHz	Plot D
	661	1880.0	314.4 KHz	253.25 KHz	Plot E
	810	1909.8	318.5 KHz	204.82 KHz	Plot F
WCDMA 850MHz	4132	826.4	4.600MHz	4.1638MHz	Plot G
	4175	835	4.619MHz	4.1757MHz	Plot H
	4233	846.6	4.623MHz	4.1518MHz	Plot I
WCDMA1900MHz	9262	1852.4	4.635MHz	4.1614MHz	Plot J
	9400	1880	4.620MHz	4.1582MHz	Plot K
	9538	1907.6	4.610MHz	4.1617MHz	Plot L
HSDPA 850MHz	4132	826.4	4.621MHz	4.1686MHz	Plot M
	4175	835	4.617MHz	4.1517MHz	Plot N
	4233	846.6	4.620MHz	4.1436MHz	Plot O
HSDPA 1900MHz	9262	1852.4	4.623MHz	4.1811MHz	Plot P
	9400	1880	4.619MHz	4.1541MHz	Plot Q
	9538	1907.6	4.609MHz	4.1671MHz	Plot R
HSUPA 850MHz	4132	826.4	4.626MHz	4.1727MHz	Plot S
	4175	835	4.627MHz	4.1693MHz	Plot T
	4233	846.6	4.626MHz	4.1560MHz	Plot U
HSUPA 1900MHz	9262	1852.4	4.629MHz	4.1690MHz	Plot V

Band	Channel	Frequency (MHz)	26dB bandwidth	99% Occupied Bandwidth	Refer to Plot
	9400	1880	4.615MHz	4.1413MHz	Plot W
	9538	1907.6	4.603MHz	4.1651MHz	Plot X
HSPA+ 850MHz	4132	826.4	4.603MHz	4.1616MHz	Plot Y
	4175	835	4.613MHz	4.1797MHz	Plot Z
	4233	846.6	4.608MHz	4.1522MHz	Plot A1
HSPA+ 1900MHz	9262	1852.4	4.627MHz	4.1530MHz	Plot B1
	9400	1880	4.628MHz	4.1648MHz	Plot C1
	9538	1907.6	4.625MHz	4.1625MHz	Plot D1
GSM 850MHz	128	824.2	301.3 KHz	225.05KHz	Plot E1
	190	836.6	299.9 KHz	232.94 KHz	Plot F1
	251	848.8	317.1 KHz	259.58 KHz	Plot G1
GSM 1900MHz	512	1850.2	317.3 KHz	254.88 KHz	Plot H1
	661	1880.0	296.6 KHz	247.22 KHz	Plot I1
	810	1909.8	289.0 KHz	248.72 KHz	Plot J1
GPRS 850MHz	128	824.2	285.9 KHz	235.06 KHz	Plot K1
	190	836.6	315.6 KHz	262.27 KHz	Plot L1
	251	848.8	303.1 KHz	251.96 KHz	Plot M1
GPRS 1900MHz	512	1850.2	285.4 KHz	239.20 KHz	Plot N1
	661	1880.0	286.4 KHz	222.51 KHz	Plot O1
	810	1909.8	319.61 KHz	266.24 KHz	Plot P1
WCDMA1700MHz	1312	1712.4	4.655 MHz	4.1558 MHz	Plot Q1
	1412	1732.4	4.657 MHz	4.1552 MHz	Plot R1
	1513	1752.6	4.661 MHz	4.1547 MHz	Plot S1
HSDPA 1700MHz	1312	1712.4	4.659 MHz	4.1536 MHz	Plot T1
	1412	1732.4	4.645 MHz	4.1521 MHz	Plot U1
	1513	1752.6	4.660 MHz	4.1592 MHz	Plot V1
HSUPA 1700MHz	1312	1712.4	4.652 MHz	4.1693 MHz	Plot W1
	1412	1732.4	4.658 MHz	4.1508 MHz	Plot X1
	1513	1752.6	4.643 MHz	4.1493 MHz	Plot Y1
HSPA+ 1700MHz	1312	1712.4	4.659 MHz	4.1589 MHz	Plot Z1
	1412	1732.4	4.659 MHz	4.1483 MHz	Plot A2
	1513	1752.6	4.668 MHz	4.1555 MHz	Plot B2

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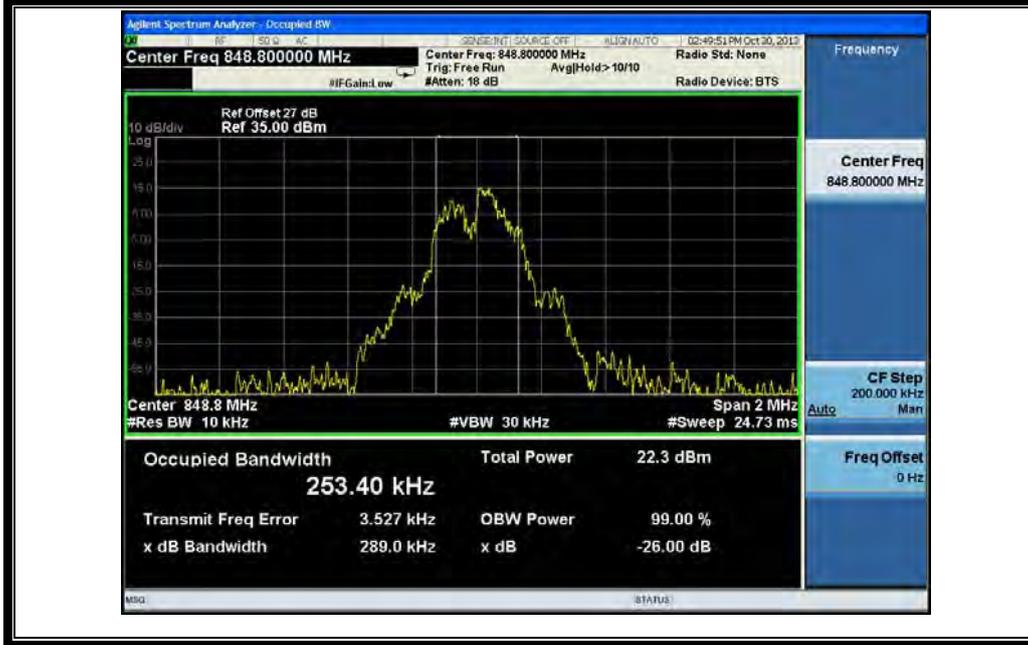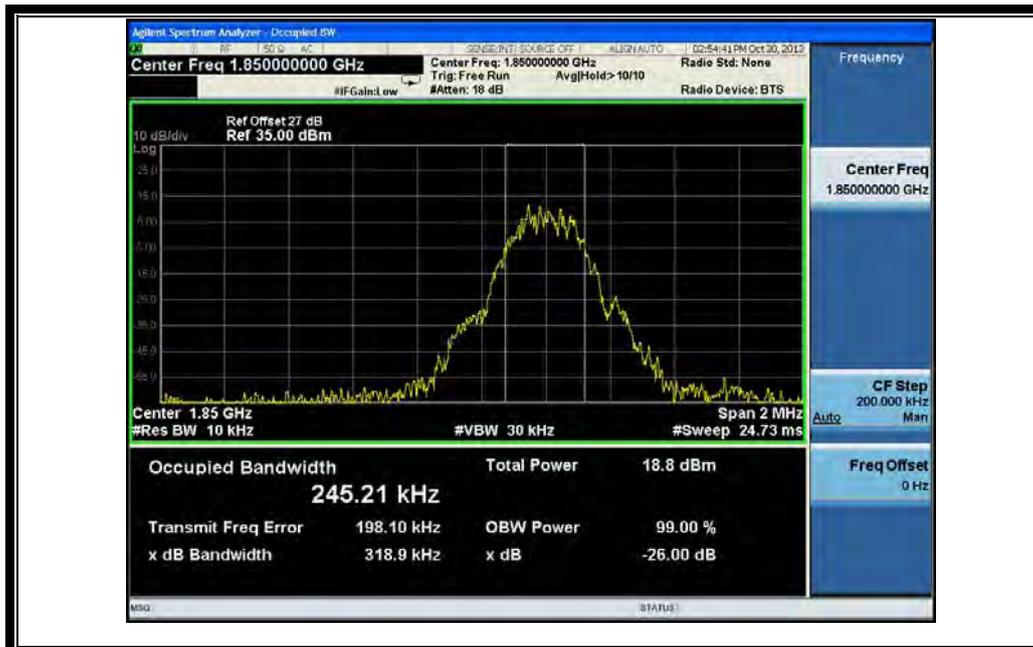Page 37 of 206

3. Test Plots:
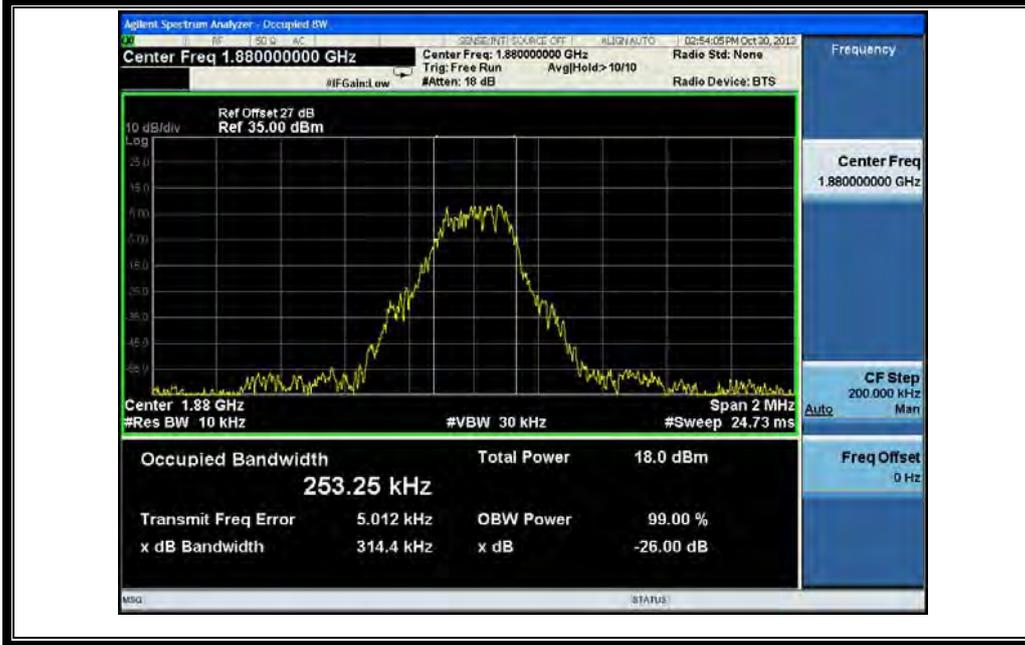

(Plot A: EGPRS 850MHz Channel = 128)
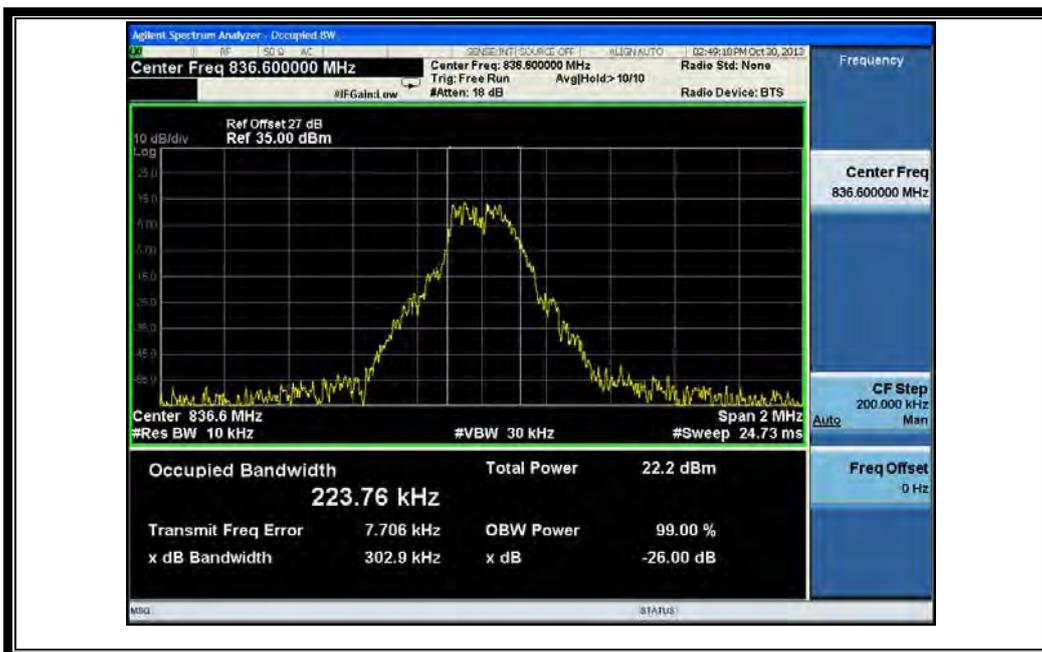
(Plot B: EGPRS 850MHz Channel = 190)

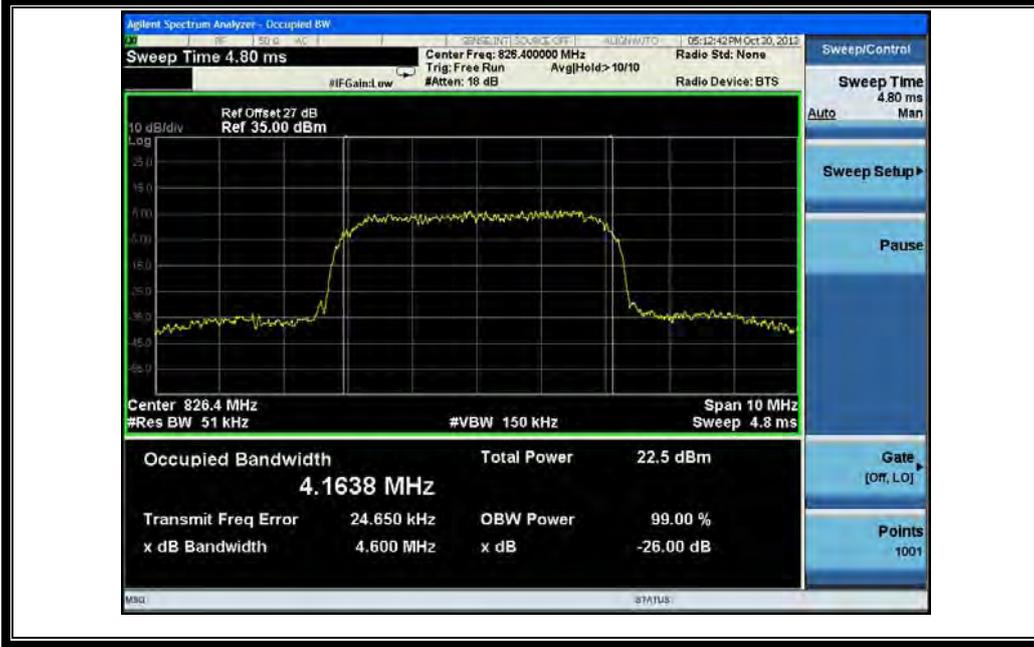(Plot C: EGPRS 850MHz Channel = 251)

(Plot D: EGPRS1900MHz Channel = 512)

(Plot E: EGPRS1900MHz Channel = 661)

(Plot F: EGPRS 1900MHz Channel = 810)

(Plot G: WCDMA 850MHz Channel = 4132)

(Plot H: WCDMA 850 MHz Channel = 4175)

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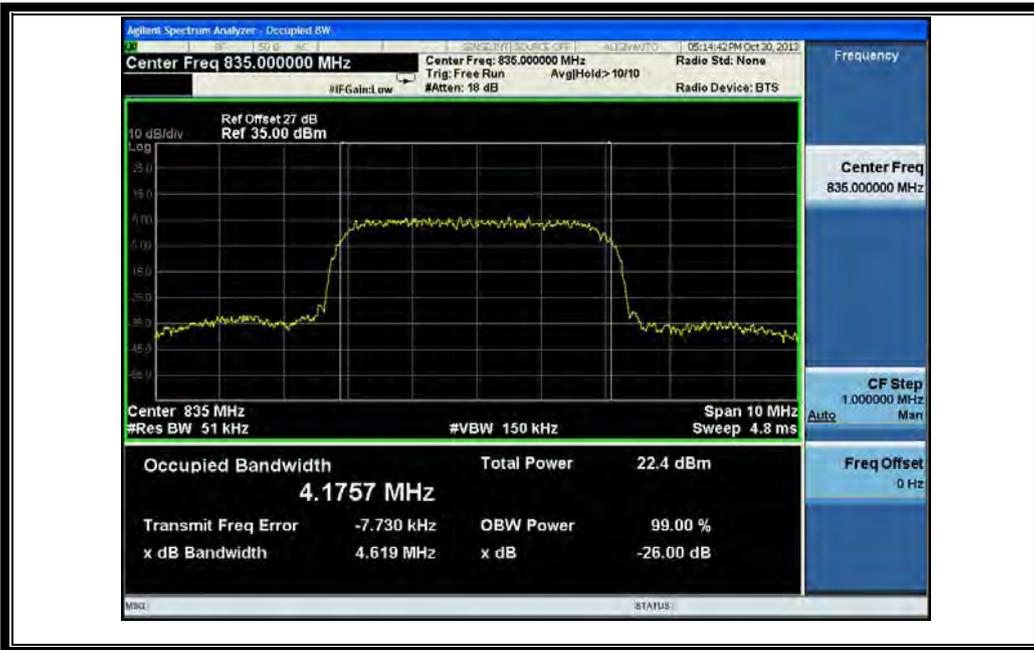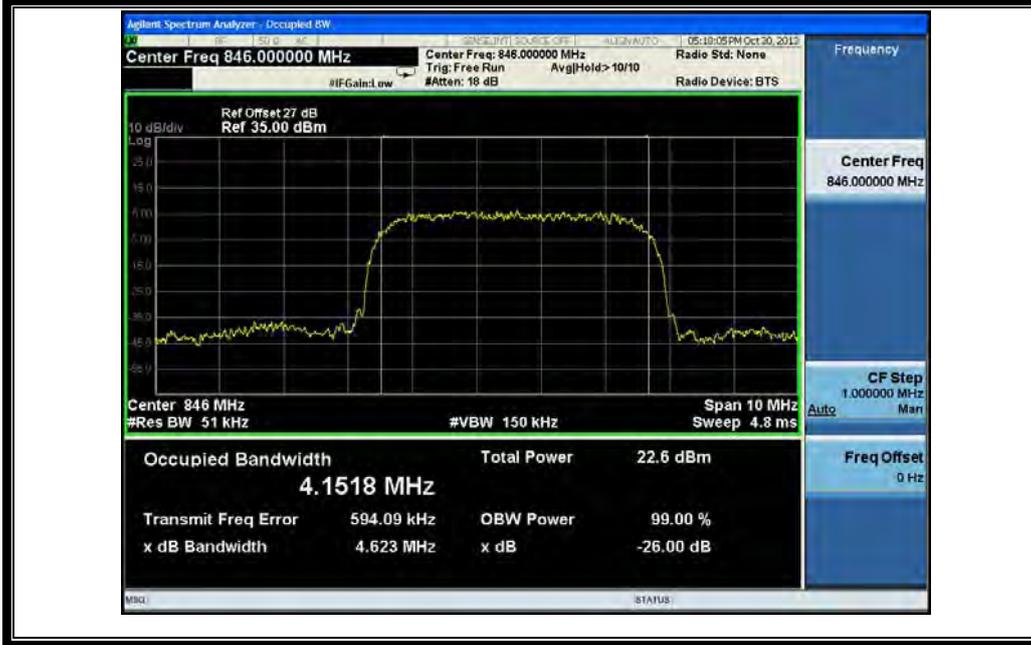
(Plot I:　WCDMA 850MHz Channel = 4233)

(Plot J:　WCDMA 1900MHz Channel = 9262)
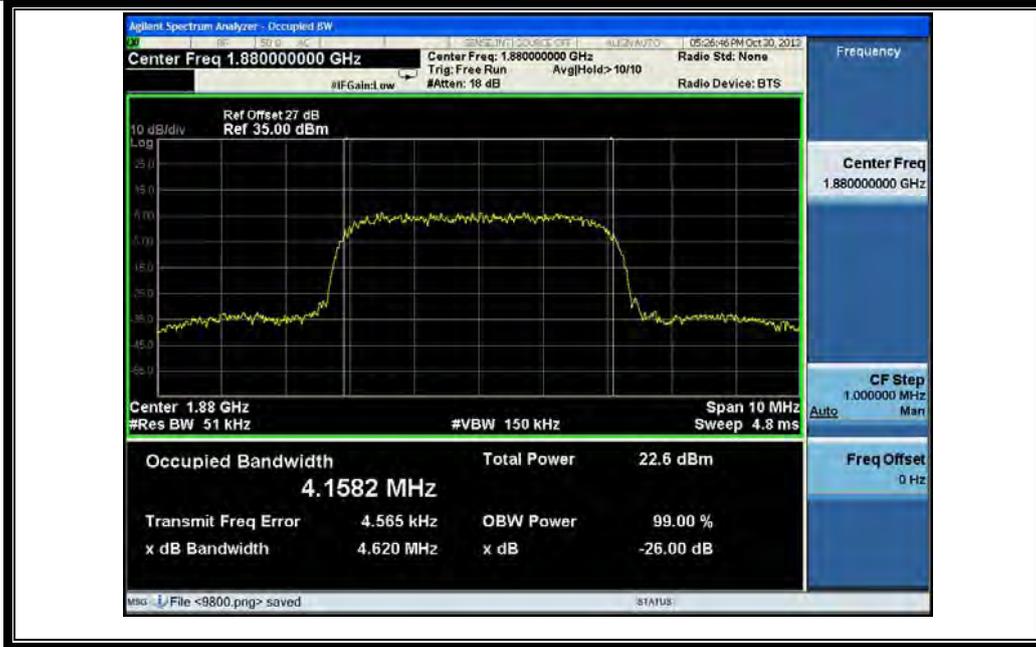
(Plot K: WCDMA 1900 MHz Channel = 9400)

(Plot L: WCDMA1900MHz Channel = 9538)
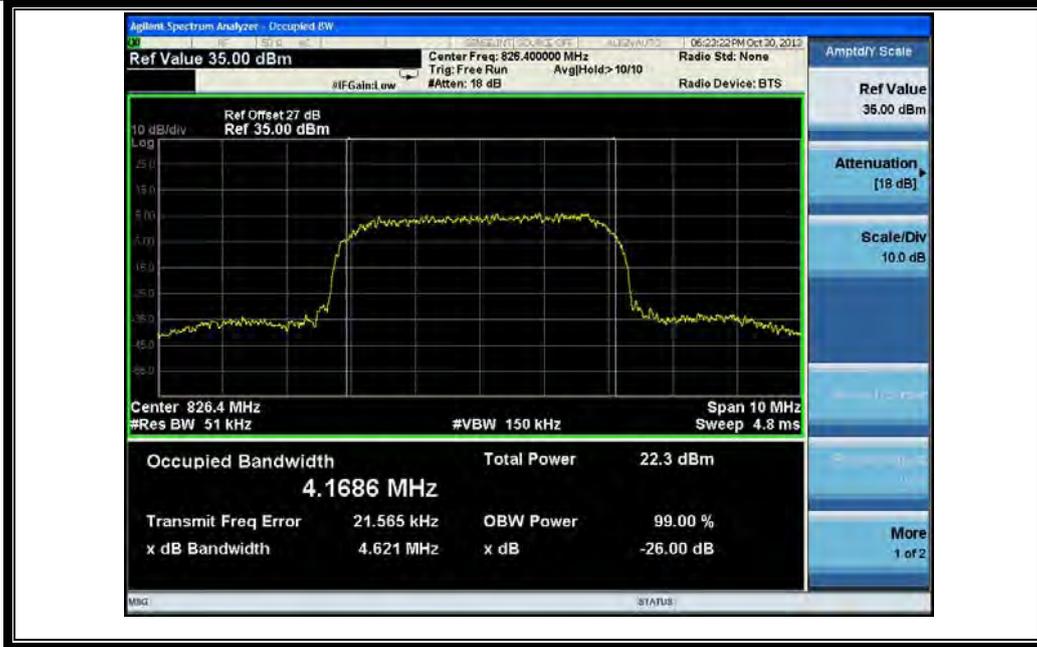
(Plot M: HSDPA 850MHz Channel = 4132)

(Plot N: HSDPA850 MHz Channel = 4175)

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(Plot O: HSDPA 850 MHz Channel = 4233)
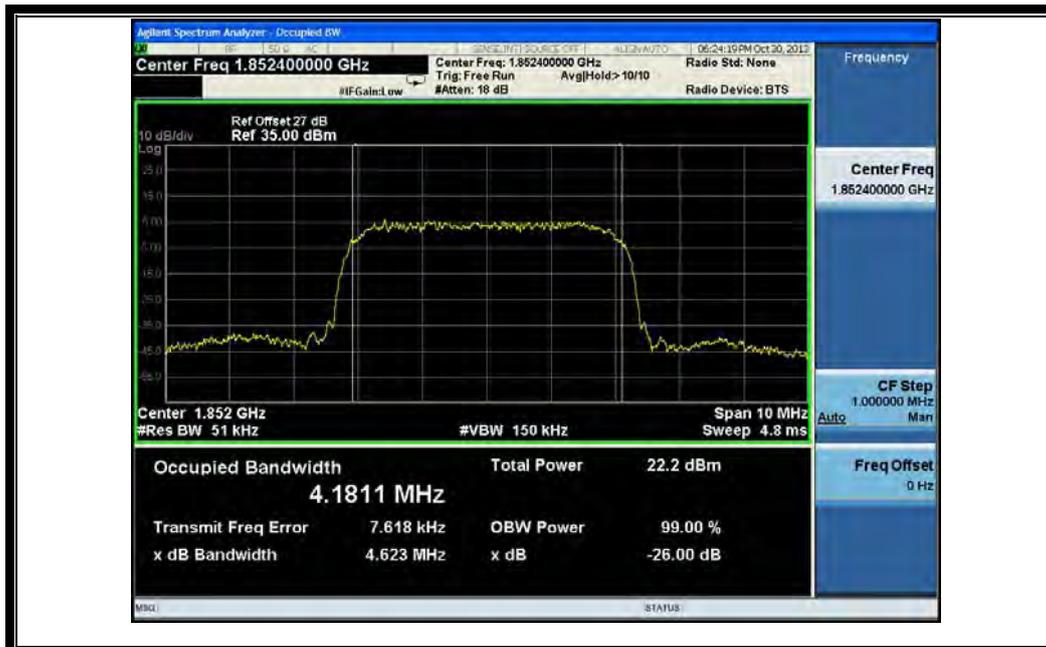
(Plot P: HSDPA1900 MHz Channel = 9262)
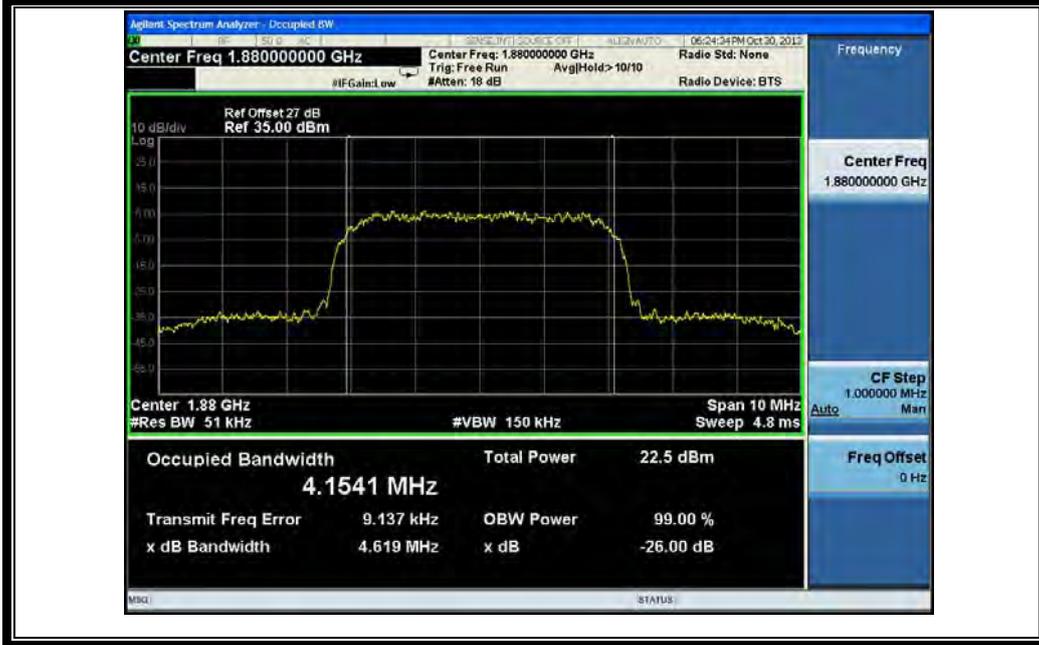
(Plot Q: HSDPA1900 MHz Channel = 9400)

(Plot R: HSDPA 1900 MHz Channel = 9538)

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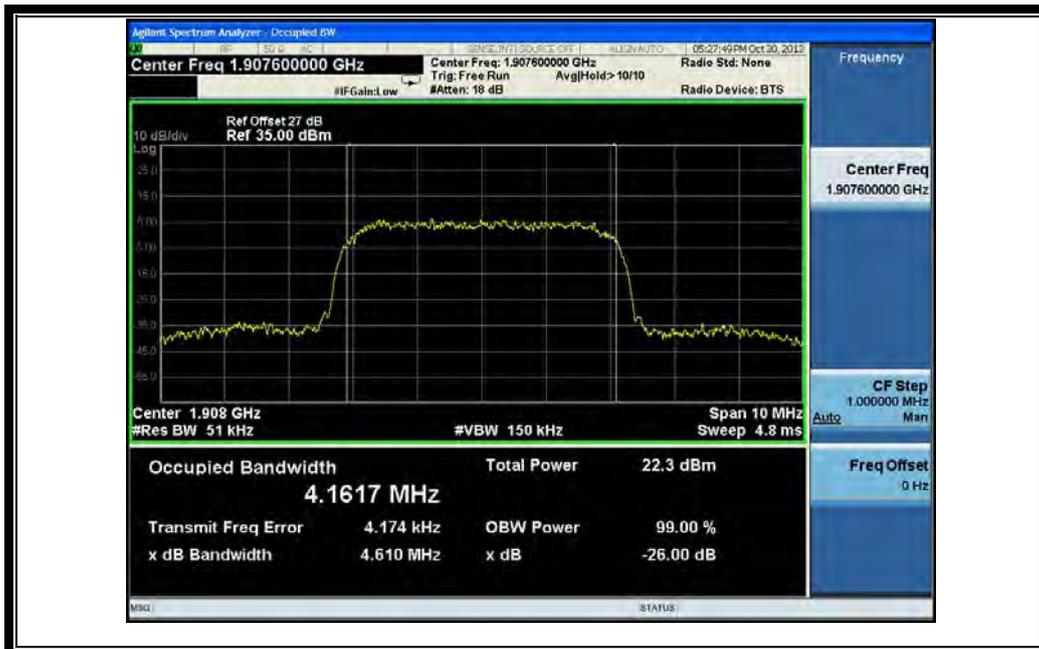
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(Plot S: HSUPA850 MHz Channel = 4132)

(Plot T: HSUPA850 MHz Channel = 4175)

(Plot U: HSUPA850 MHz Channel = 4233)

(Plot V: HSUPA1900 MHz Channel = 9262)

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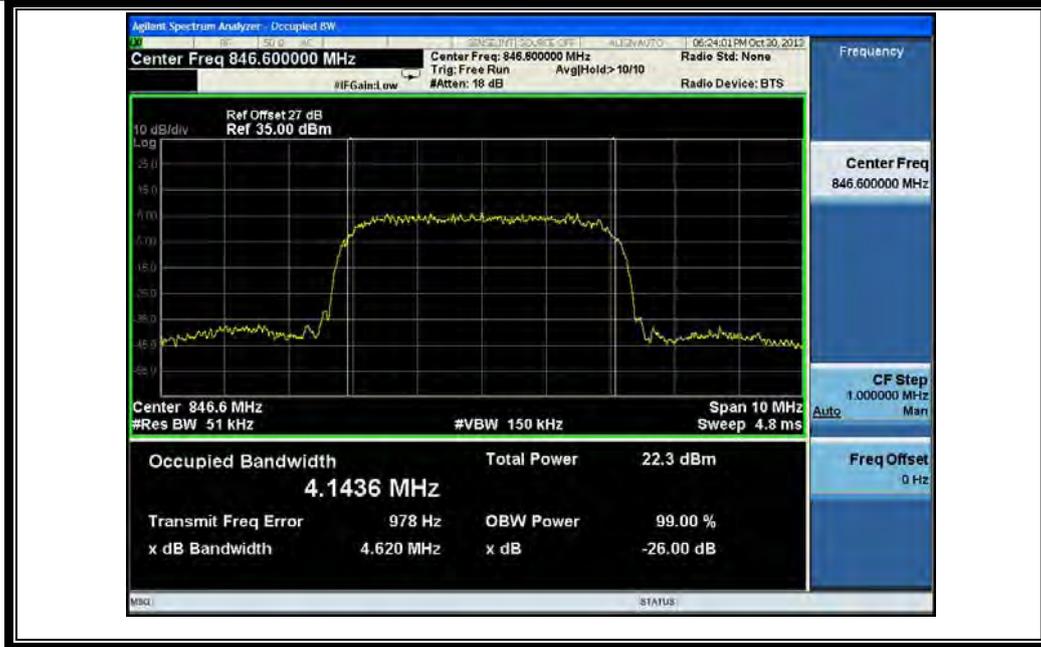Page 48 of 206

(Plot W: HSUPA1900 MHz Channel = 9400)

(Plot X: HSUPA1900 MHz Channel = 9538)

(Plot Y: HSPA+ 850 MHz Channel = 4132)

(Plot Z: HSPA+850 MHz Channel = 4175)

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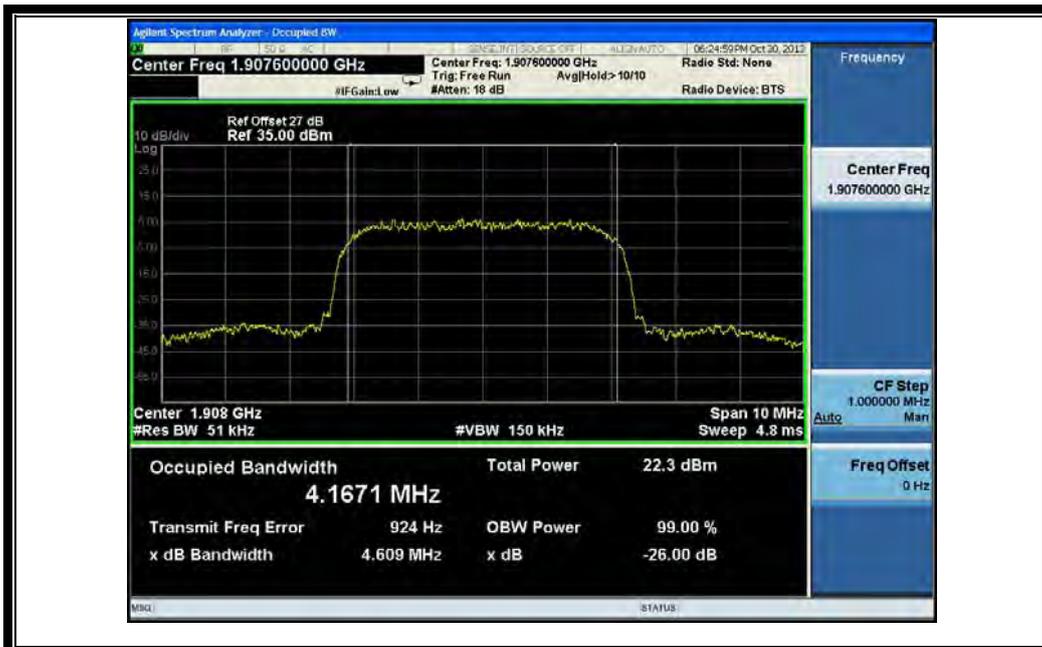Email: info.sz@morlab.cn

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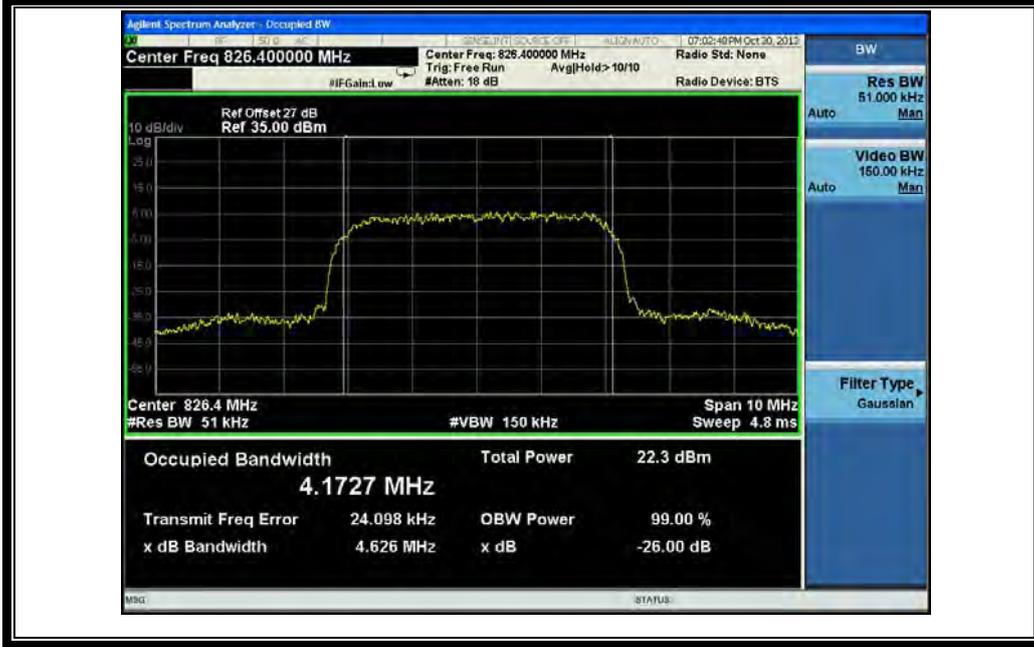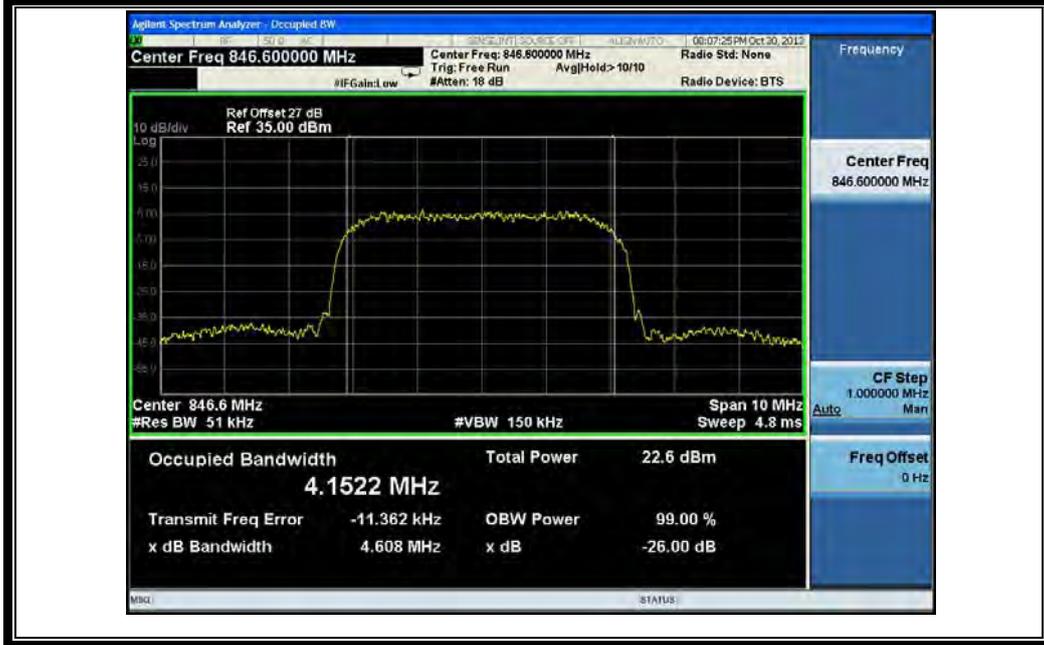(Plot A1:HSPA+ 850 MHz Channel = 4233)
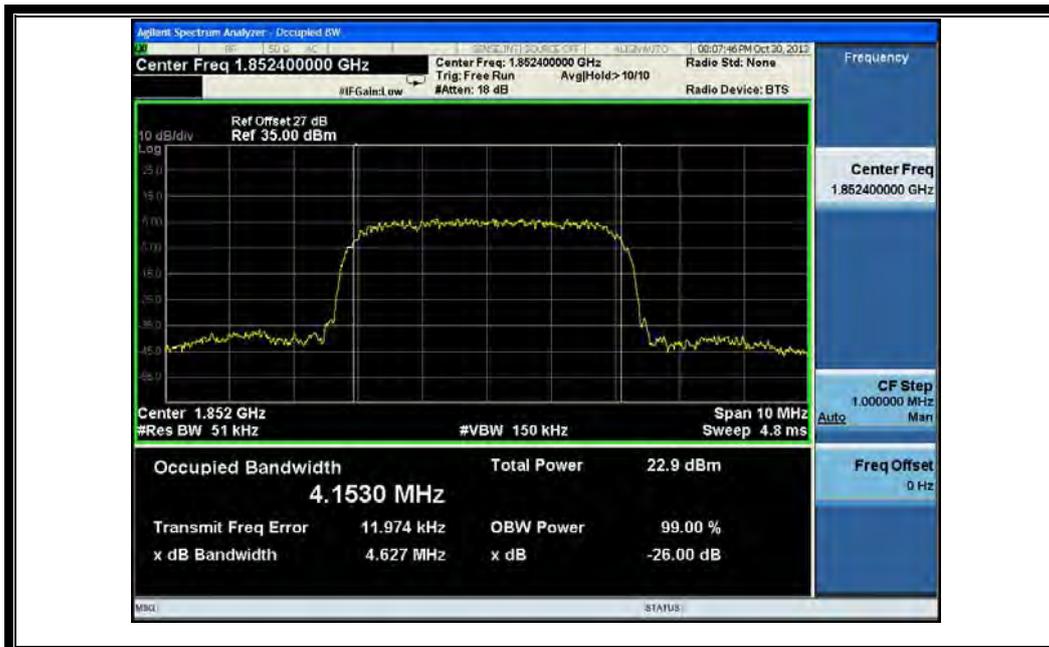
(Plot B1:   HSPA+1900 MHz Channel = 9262)
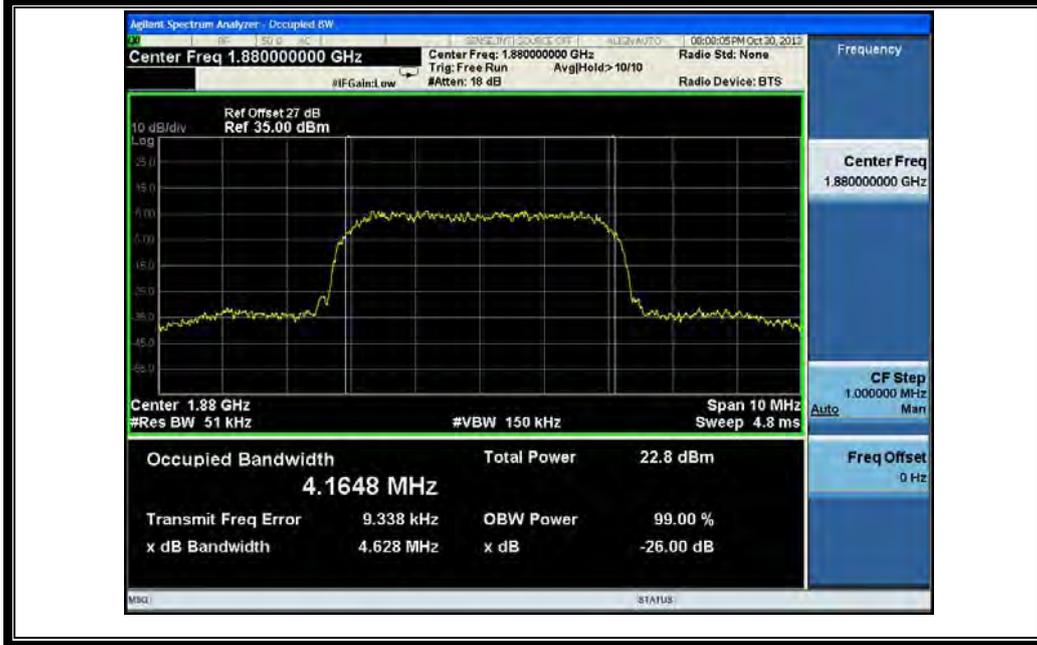
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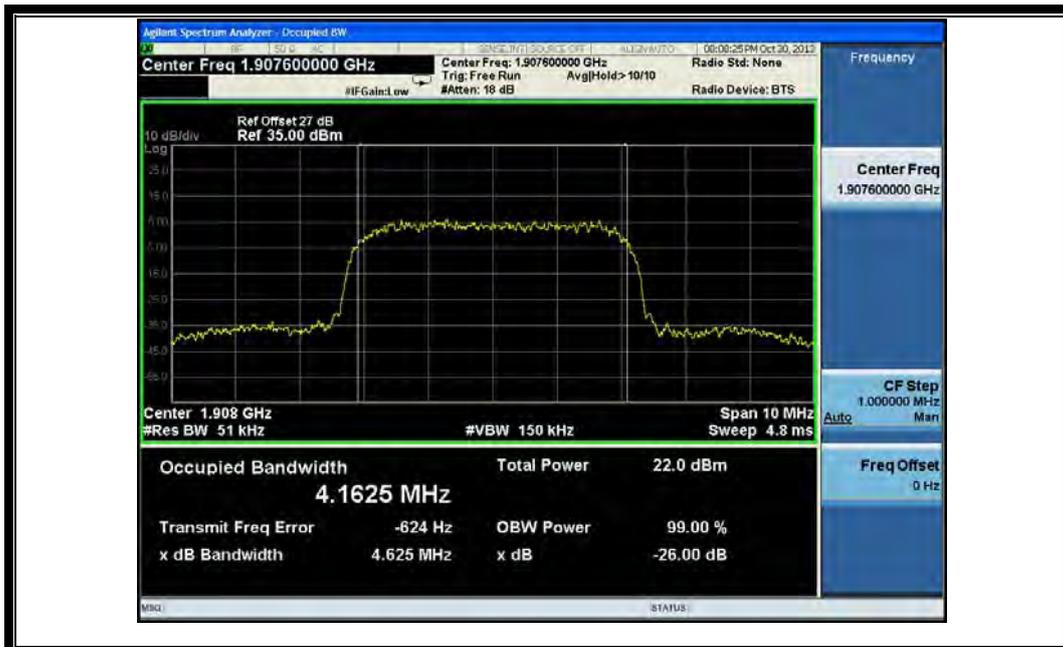
(Plot D1:   HSPA+1900 MHz Channel = 9538)

(Plot E1:   GSM 850MHz Channel = 128)
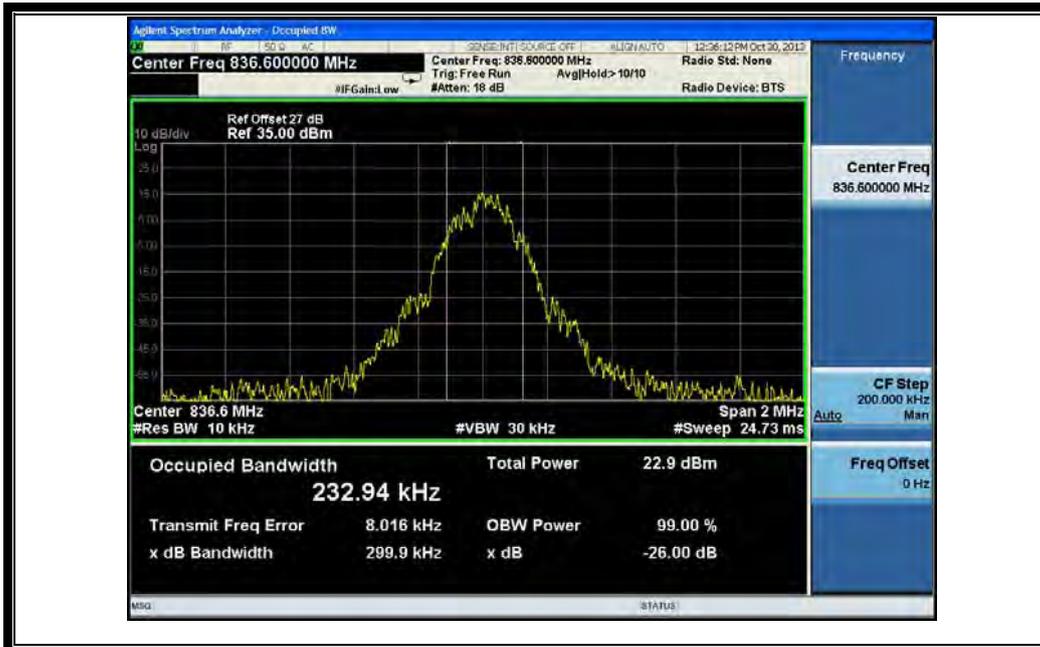
(Plot F1:GSM 850MHz Channel = 190)
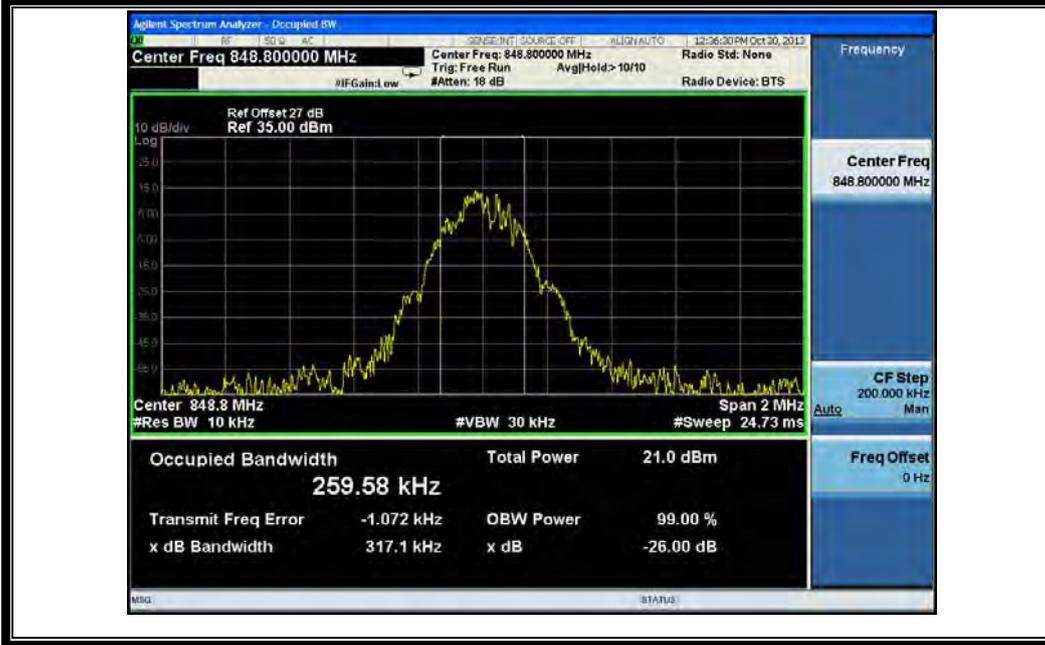
(Plot G1:   GSM 850MHz Channel = 251)
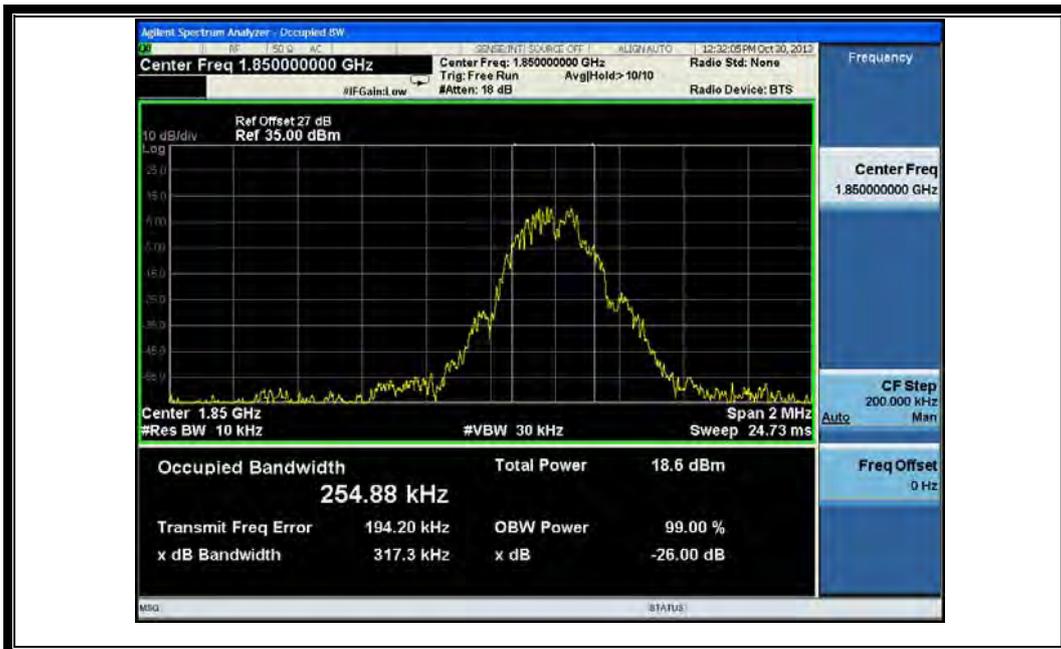
(Plot H1:   GSM 1900MHz Channel = 512)

(Plot I1: GSM 1900MHz Channel = 661)

(Plot J1: GSM 1900MHz Channel = 810)
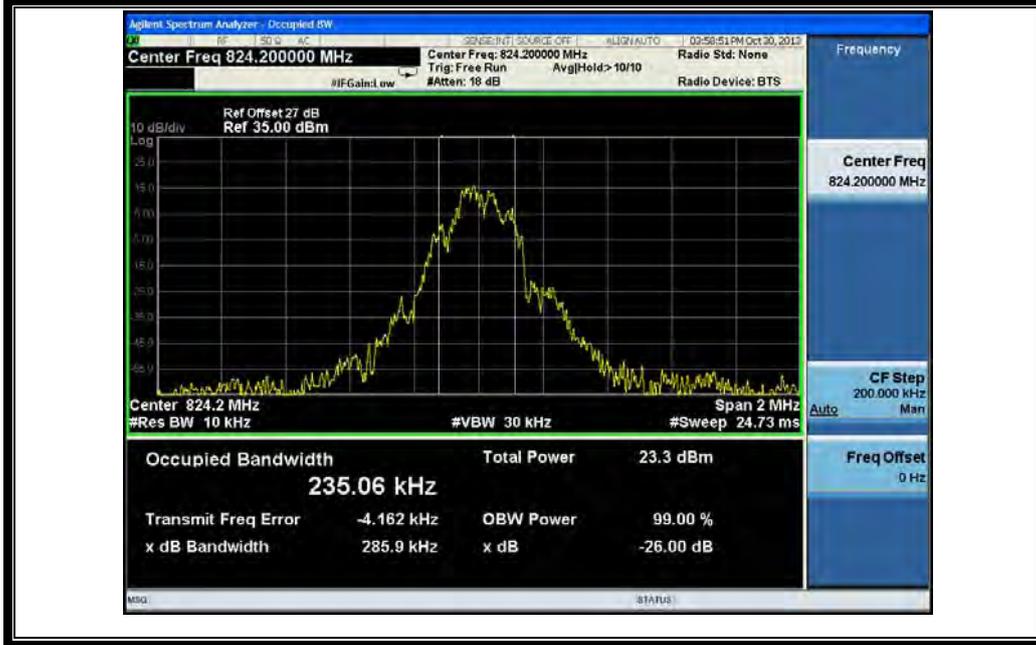
(Plot K1:   GPRS 850MHz Channel = 128)

(Plot L1: GPRS 850MHz Channel = 190)

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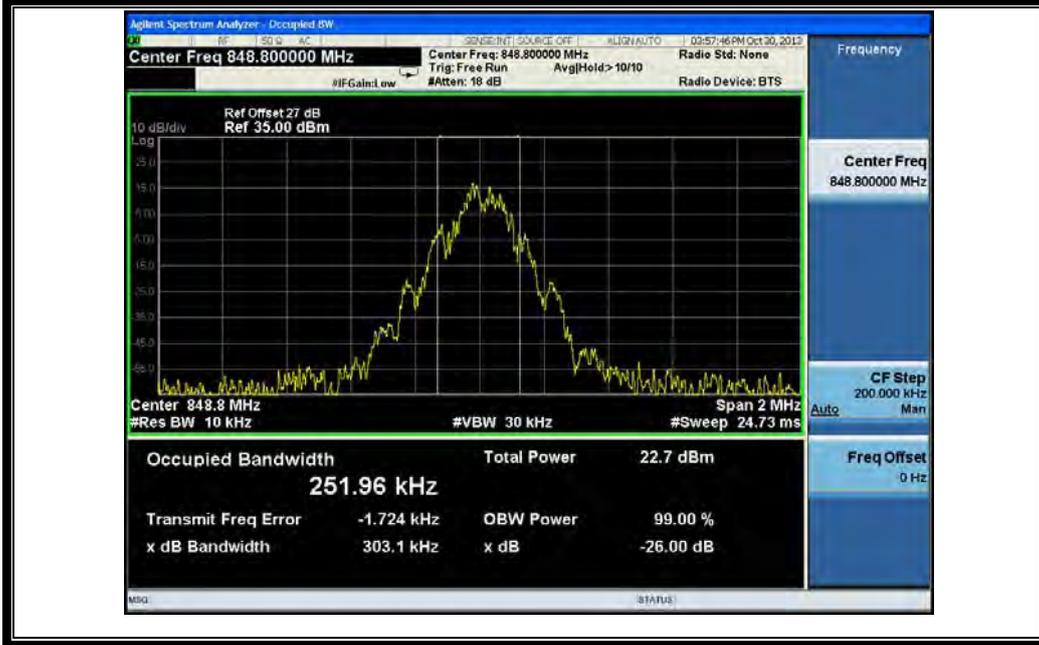
(PlotM1：GPRS850MHz Channel = 251)

(Plot N1:　　GPRS 1900MHz Channel = 512)

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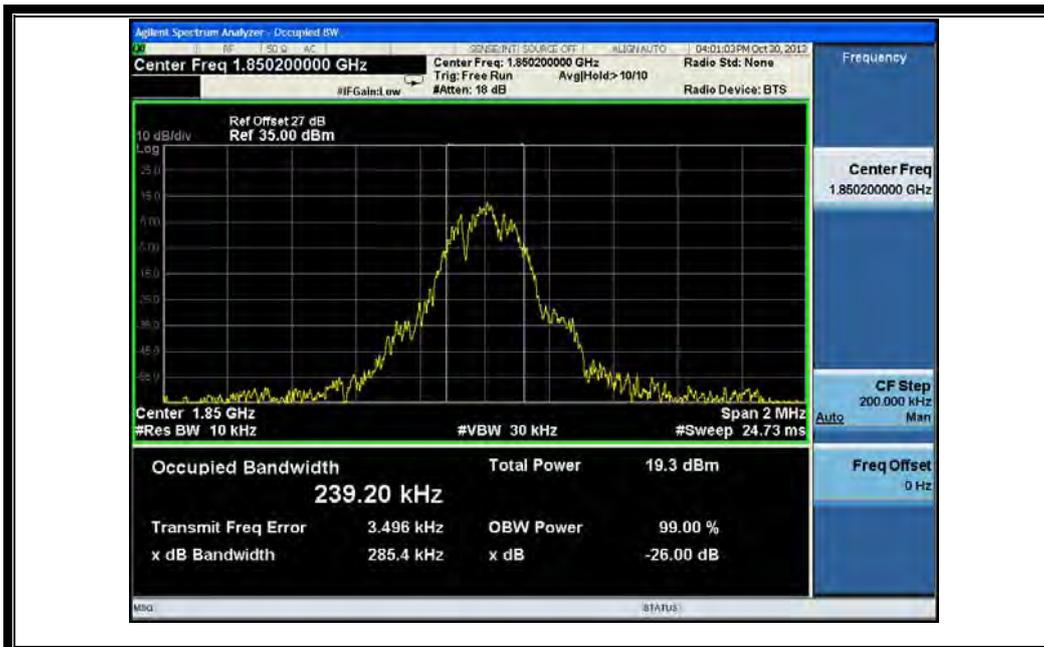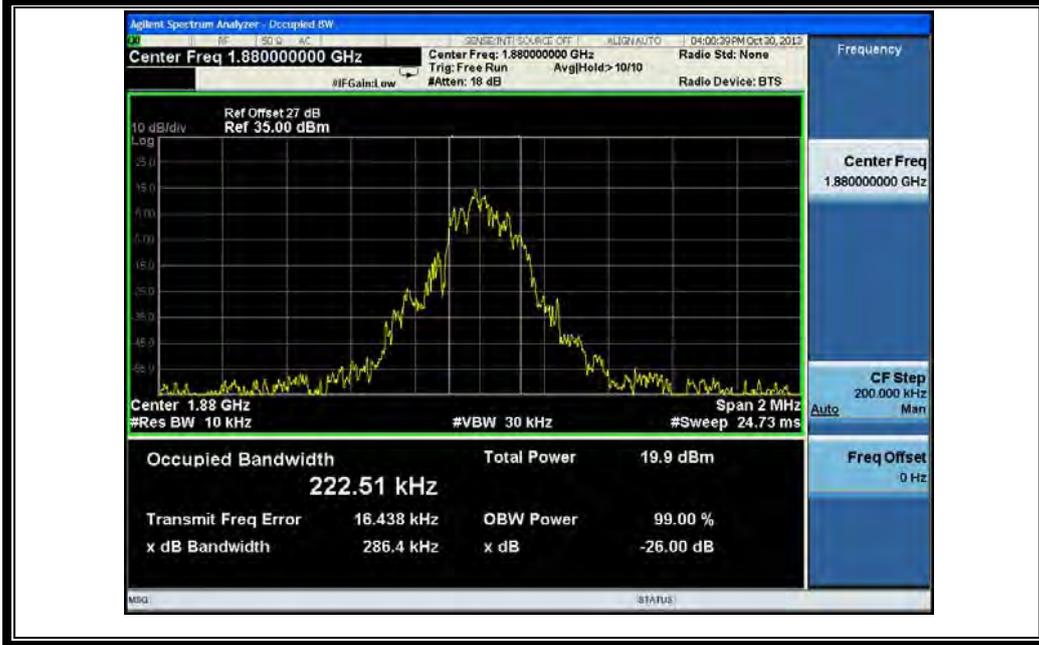
(Plot O1:   GPRS 1900MHz Channel = 661)

(Plot P1:   GPRS 1900MHz Channel = 810)

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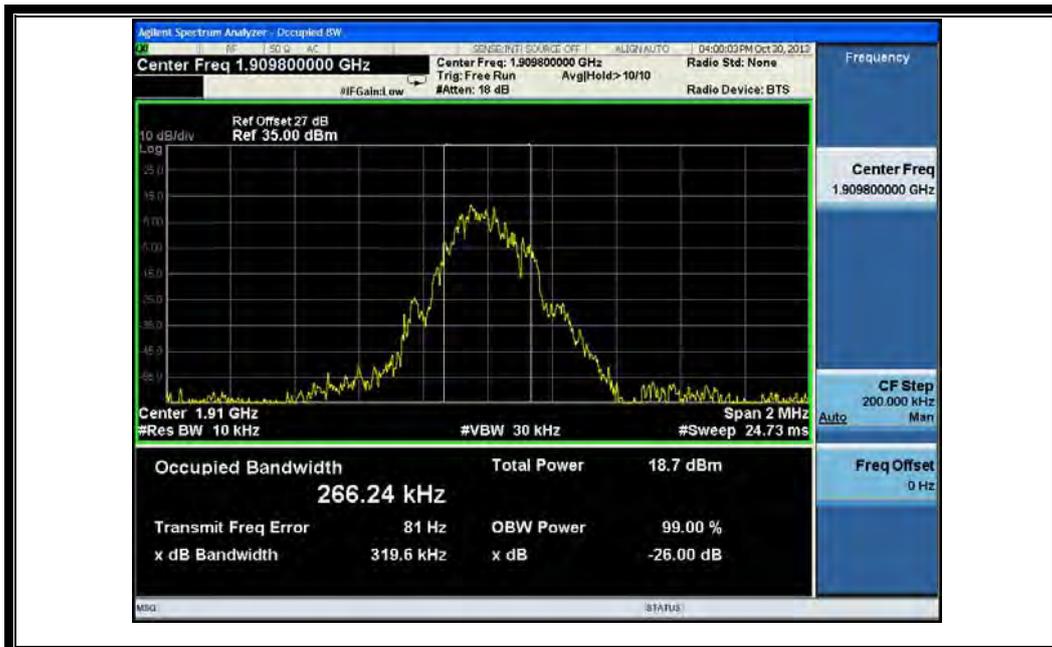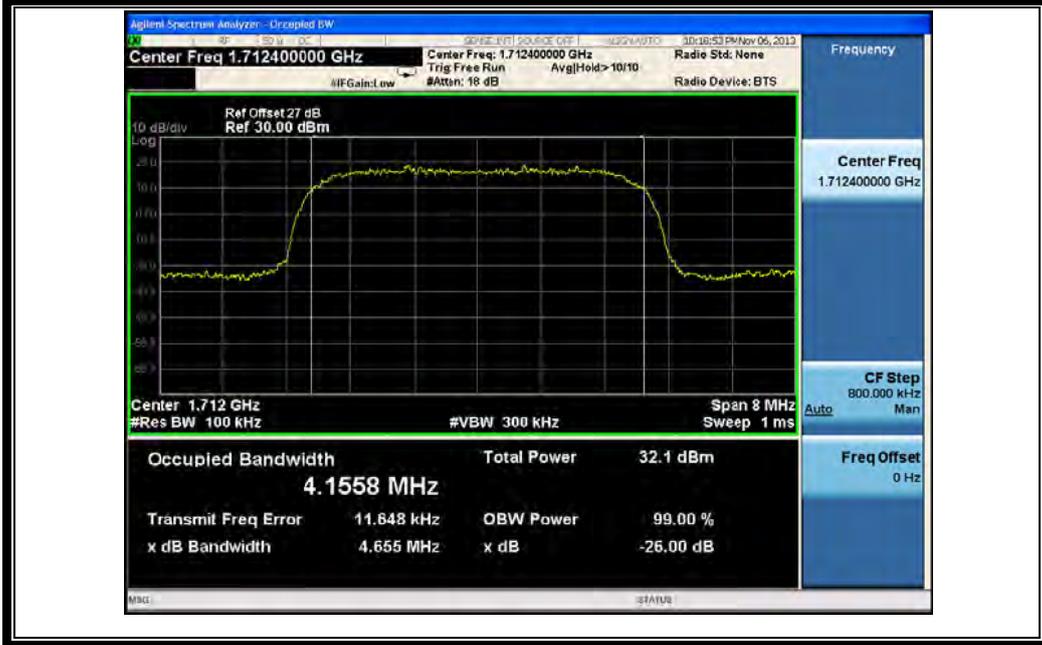
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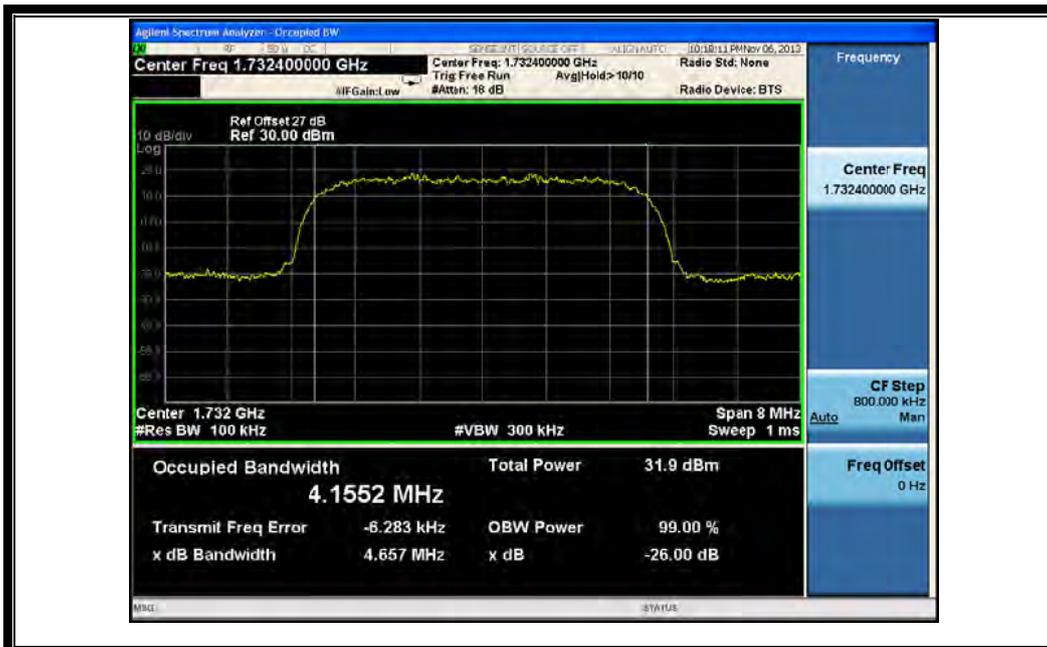
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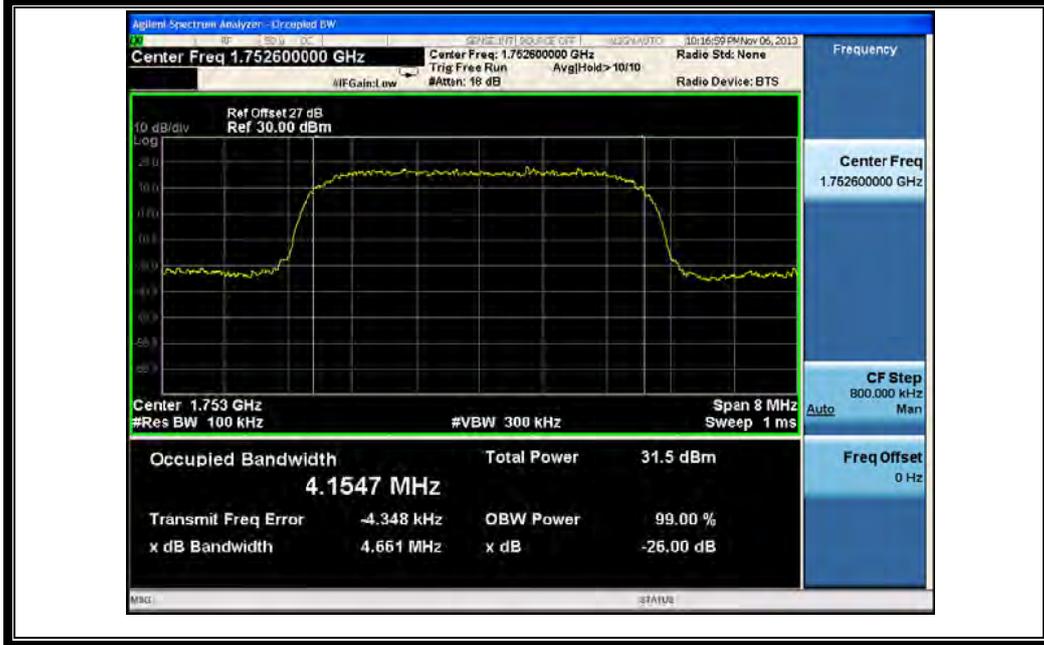
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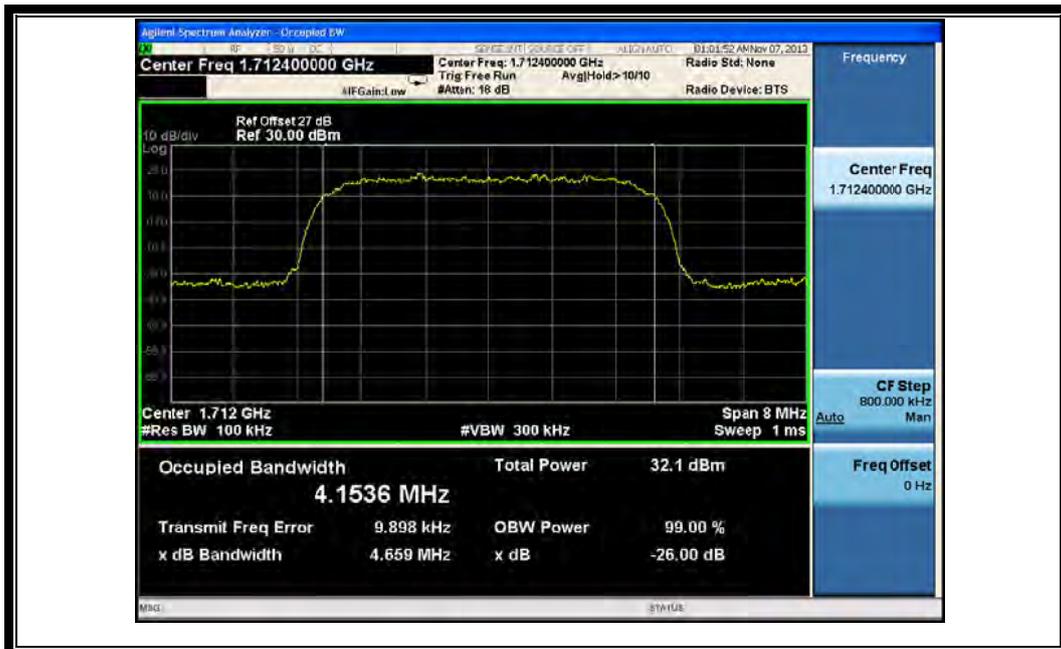
(Plot T1:HSDPA1700 MHz Channel = 1312)
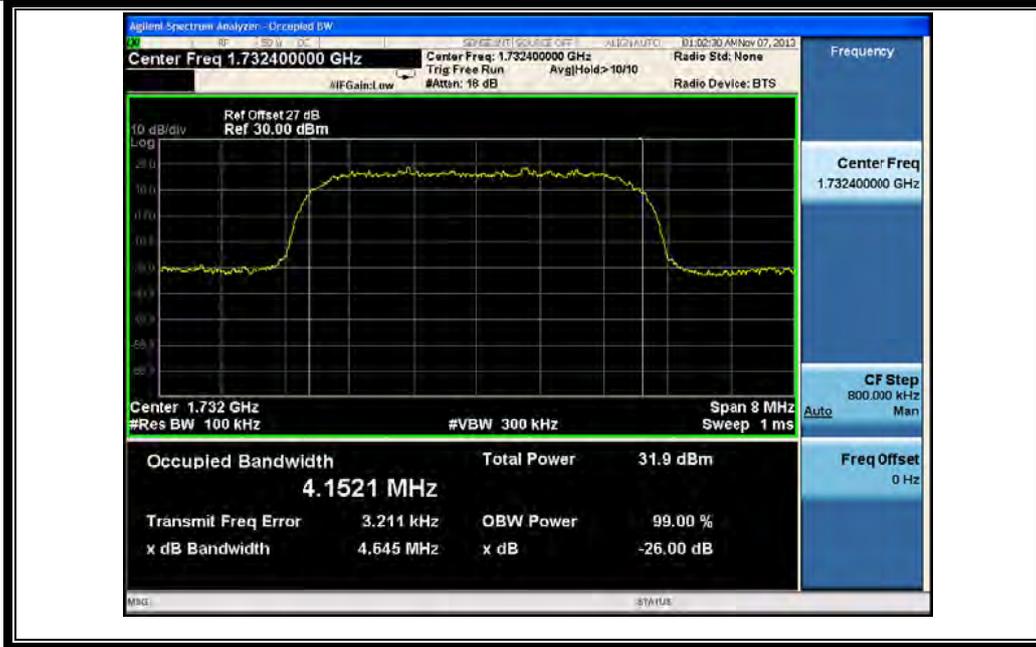
(Plot U1:   HSDPA 1700 MHz Channel = 1412)

(Plot V1:   HSDPA 1700MHz Channel = 1513)
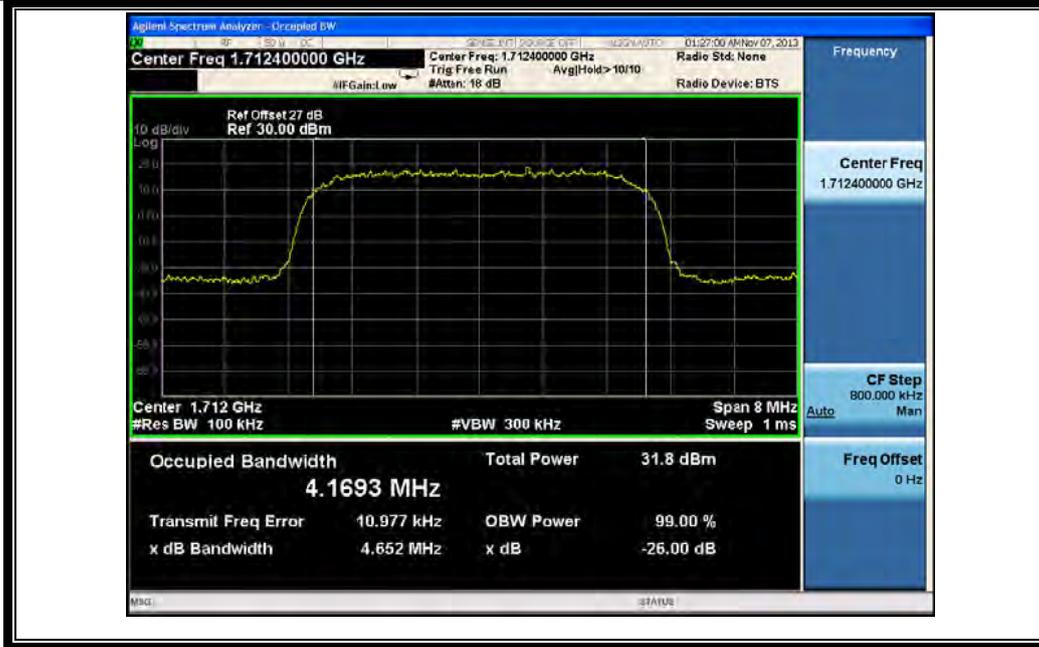
(Plot W1:   HSUPA 1700 MHz Channel = 1312)
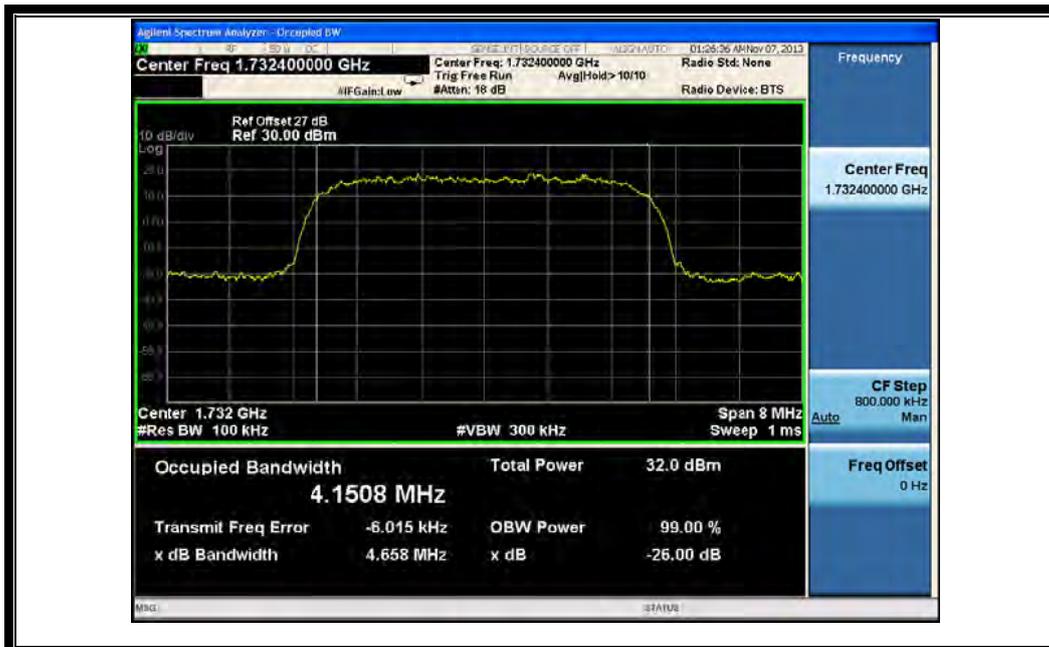
(Plot X1:   HSUPA1700 MHz Channel = 1412)
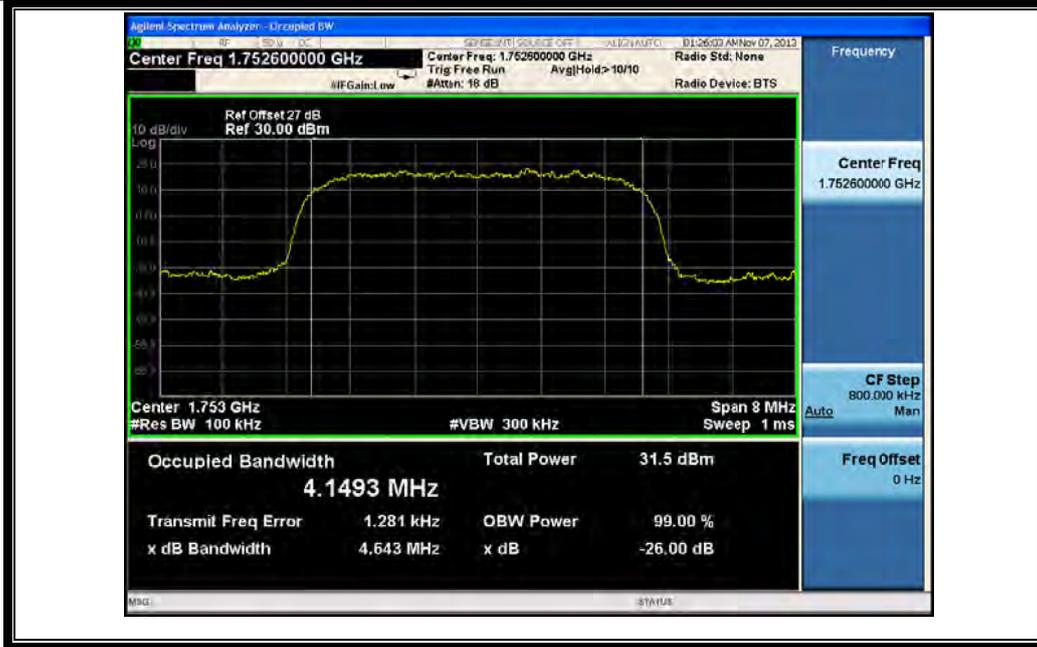
(Plot Y1:HSUPA 1700 MHz Channel = 1513)
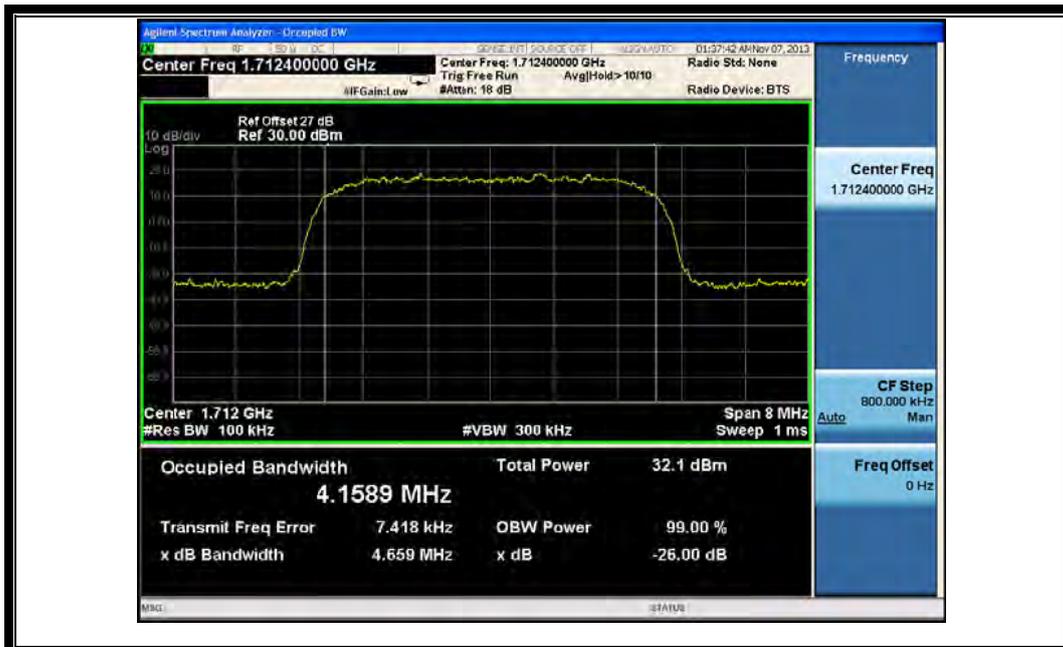
(Plot Z1:HSPA+1700 MHz Channel = 1312)
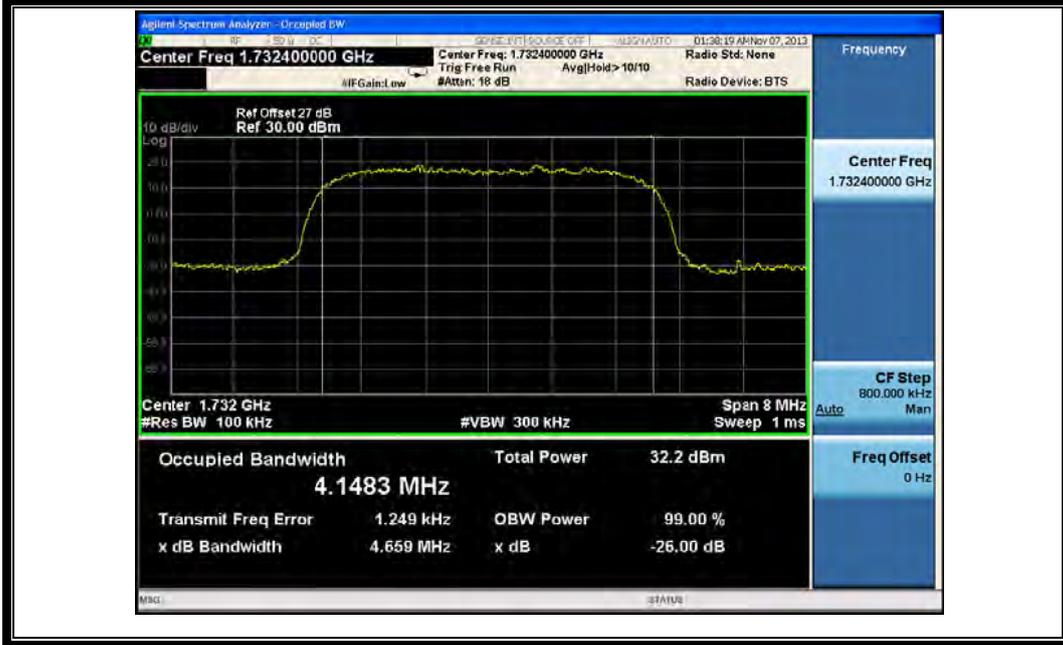
(Plot A2:HSPA+1700 MHz Channel = 1412)
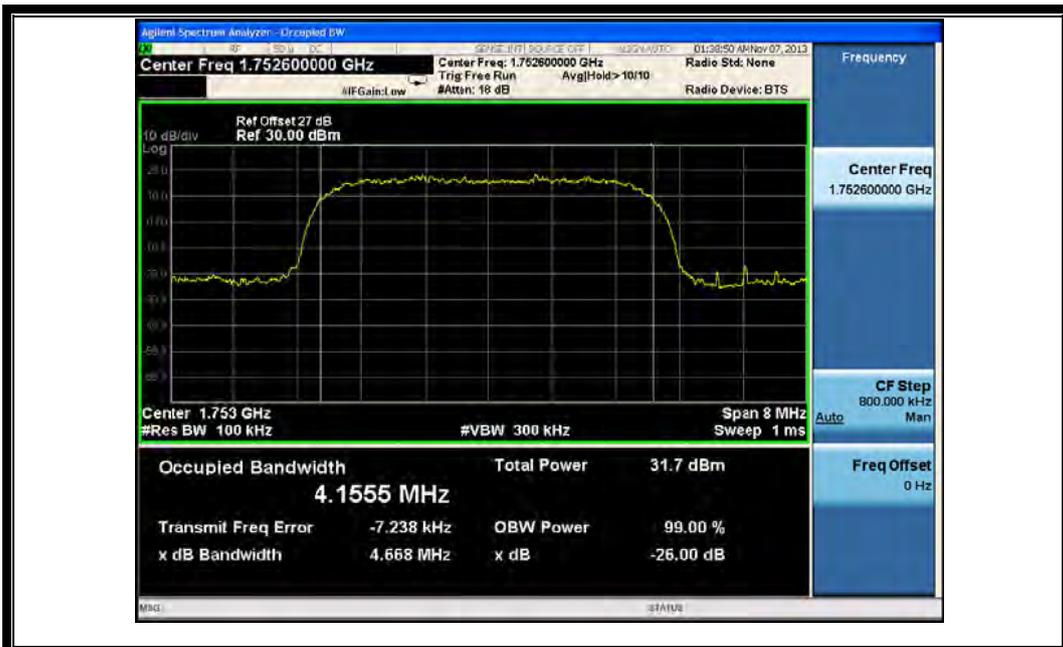
(Plot B2:　　HSPA+1700 MHz Channel = 1513)

2.4 Frequency Stability

2.4.1 Requirement

According to FCC section 22.355 and FCC section 24.235, 27.53(g) the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

(a) The temperature is varied from -30°C to +50°C at intervals of not more than 10°C.
(b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

2.4.2 Test Description

1. Test Setup:
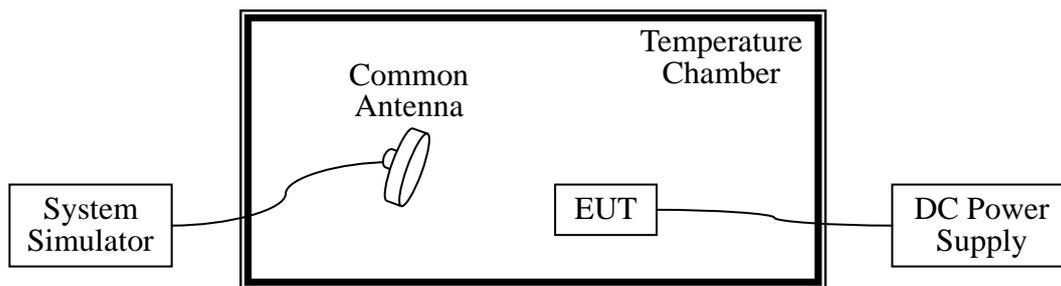
The EUT, which is powered by the DC Power Supply directly, is located in the Temperature Chamber. The EUT is commanded by the System Simulator (SS) to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS via a Common Antenna.

2. Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
System Simulator	Agilent	E5515C	GB43130131	2013.05	2014.05
DC Power Supply	Good Will	GPS-3030DD	EF920938	2013.05	2014.05
Temperature Chamber	YinHe Experimental Equip.	HL4003T	(n.a.)	2013.05	2014.05

2.4.3 Test Verdict

The nominal, highest and lowest extreme voltages are separately 3.7VDC, 4.2VDC and 3.6VDC, which are specified by the applicant; the normal temperature here used is 25°C. The frequency deviation limit of

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850MHz band is ±2.5ppm, and 1900MHz is ±1ppm.

1. GSM 850MHz Band

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	Channel = 128 (824.2MHz)		Channel = 190 (836.6MHz)		Channel = 251 (848.8MHz)		
		Hz	Limits	Hz	Limits	Hz	Limits	
3.7	-30	-17.11	±2060.5	19.32	±2091.5	-16.22	±2122	PASS
	-20	19.13		25.31		19.32		
	-10	-2.15		30.26		25.31		
	0	30.16		-29.21		30.26		
	+10	21.99		19.33		-29.21		
	+20	-19.16		-19.27		19.33		
	+30	35.26		26.29		-19.27		
	+40	42.63		18.97		-16.22		
	+55	35.28		19.32		19.32		
4.2	+25	-14.73		28.95		25.31		
3.6	+25	-17.08		31.23		30.26		

2. GSM 1900MHz Band

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	Channel = 512 (1850.2MHz)		Channel = 661 (1880.0MHz)		Channel = 810 (1909.8MHz)		
		Hz	Limits	Hz	Limits	Hz	Limits	
3.7	-30	-0.59	±1850.2	-15.27	±1880.0	11.24	±1909.8	PASS
	-20	21.45		17.31		-15.71		
	-10	13.45		22.31		-16.25		
	0	1.31		30.22		11.32		
	+10	-12.52		-29.21		25.31		
	+20	30.62		19.33		30.26		
	+30	13.45		-19.27		-29.21		
	+40	-12.52		26.29		19.33		
	+55	30.62		18.97		-19.27		
4.2	+25	-0.59		-16.28		25.29		
3.6	+25	21.91		11.32		11.92		

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3. EDGE 850MHz Band

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	Channel = 128 (824.2MHz)		Channel = 190 (836.6MHz)		Channel = 251 (848.8MHz)		
		Hz	Limits	Hz	Limits	Hz	Limits	
3.7	-30	1.65	±2060.5	25.12	±2091.5	18.51	±2122	PASS
	-20	2.47		12.56		11.33		
	-10	-10.76		-13.59		-17.55		
	0	-2.11		37.10		38.10		
	+10	13.33		-20.03		-22.06		
	+20	5.33		-11.08		-16.11		
	+30	-2.56		13.76		17.76		
	+40	17.60		12.22		15.64		
	+55	1.65		10.07		3.67		
4.2	+25	2.47		13.95		13.95		
3.6	+25	-10.76		6.23		11.33		

4. EDGE 1900MHz Band

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	Channel = 512 (1850.2MHz)		Channel = 661 (1880.0MHz)		Channel = 810 (1909.8MHz)		
		Hz	Limits	Hz	Limits	Hz	Limits	
3.7	-30	-13.77	±1850.2	23.62	±1880.0	2.47	±1909.8	PASS
	-20	0.62		7.23		-11.76		
	-10	21.63		-24.78		-12.21		
	0	12.07		-1.26		13.33		
	+10	-11.76		-18.68		5.33		
	+20	-2.11		-21.61		35.26		
	+30	13.33		14.58		-26.78		
	+40	5.33		-0.68		19.54		
	+55	-2.56		36.87		-16.67		
4.2	+25	17.60		3.88		26.79		
3.6	+25	-8.09		13.12		19.93		

5. WCDMA 850MHz Band

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	**Temperature (°C)**	**Channel = 4123 (826.4MHz)**		**Channel = 4175 (835MHz)**		**Channel = 4233 (846.6MHz)**		
		Hz	**Limit**	**Hz**	**Limit**	**Hz**	**Limit**	
`	-30	17.29	±2066	11.87	±2087.5	-12.21	±2116.5	PASS
	-20	-7.32		-0.59		13.33		
	-10	-3.40		21.45		5.33		
	0	16.47		13.45		35.26		
	+10	30.18		1.31		-26.78		
	+20	32.07		-12.52		19.54		
	+30	-7.98		30.62		-16.67		
	+40	26.21		13.45		-12.21		
	+55	11.10		-12.52		13.33		
4.2	+25	-6.18		30.62		23.19		
3.6	+25	18.66		-18.07		-17.75		

6.   WCDMA 1900MHz Band

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	**Temperature (°C)**	**Channel = 9262 (1852.4MHz)**		**Channel = 9400 (1880.0MHz)**		**Channel = 9538 (1907.6MHz)**		
		Hz	**Limits**	**Hz**	**Limits**	**Hz**	**Limits**	
3.7	-30	-4.75	±1852.4	-13.47	±1880.0	-8.99	±1907.6	PASS
	-20	18.85		12.18		23.60		
	-10	5.05		-14.06		14.81		
	0	19.62		18.79		-3.07		
	+10	30.40		22.39		17.42		
	+20	13.45		37.27		-10.39		
	+30	1.31		2.37		17.47		
	+40	-12.52		-13.47		27.84		
	+55	-13.55		-5.71		-2.53		
4.2	+25	23.21		14.58		20.95		
3.6	+25	22.00		26.37		-23.22		

7. HSDPA 850MHz Band

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	Channel = 4123 (826.4MHz)		Channel = 4175 (835MHz)		Channel = 4233 (846.6MHz)		
		Hz	Limit	Hz	Limit	Hz	Limit	
3.7	-30	27.46	±2066	-24.37	±2087.5	15.81	±2116.5	PASS
	-20	-8.56		-13.96		14.41		
	-10	20.65		35.23		21.57		
	0	12.88		-8.31		-24.37		
	+10	-14.75		-13.95		-13.96		
	+20	8.78		-24.37		35.23		
	+30	-1.49		12.88		-8.31		
	+40	17.14		-14.75		-13.95		
	+55	-23.61		23.37		26.37		
4.2	+25	32.03		7.93		7.90		
3.6	+25	17.51		-31.21		1.78		

8. HSDPA 1900MHz Band

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	Channel = 9262 (1852.4MHz)		Channel = 9400 (1880.0MHz)		Channel = 9538 (1907.6MHz)		
		Hz	Limits	Hz	Limits	Hz	Limits	
3.7	-30	11.87	±1852.4	-3.01	±1880	2.61	±1907.6	PASS
	-20	-16.65		21.71		-8.38		
	-10	20.12		14.37		-13.02		
	0	-3.01		-11.21		-8.51		
	+10	21.71		10.60		5.64		
	+20	20.12		-4.81		-3.85		
	+30	-15.01		34.31		9.57		
	+40	22.71		8.36		27.54		
	+55	16.32		-25.88		-12.52		
4.2	+25	-11.28		29.43		-2.83		
3.6	+25	10.33		-2.27		14.42		

9. HSUPA 850MHz Band

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	Channel = 4123 (826.4MHz)		Channel = 4175 (835MHz)		Channel = 4233 (846.6MHz)		
		Hz	Limit	Hz	Limit	Hz	Limit	
3.7	-30	25.52		13.5		13.55		
	-20	-16.20		-19.33		27.42		
	-10	-12.61		-11.79		37.01		
	0	-13.09		-0.44		-7.32		
	+10	-0.38		0.01		-4.91		
	+20	-11.85	±2066	-6.64	±2087.5	21.35	±2116.5	PASS
	+30	29.57		24.25		-5.94		
	+40	-11.79		9.63		13.78		
	+55	-0.44		23.76		28.45		
4.2	+25	1.71		-4.57		29.11		
3.6	+25	1.54		5.25		-7.70		

10. HSUPA 1900MHz Band

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	Channel = 9262 (1852.4MHz)		Channel = 9400 (1880.0MHz)		Channel = 9538 (1907.6MHz)		
		Hz	Limits	Hz	Limits	Hz	Limits	
3.7	-30	31.57		-11.79		8.69		
	-20	27.13		-0.44		2.01		
	-10	7.62		0.01		-4.75		
	0	2.31		13.82		16.38		
	+10	-4.73		-15.25		-1.76		
	+20	16.22	±1852.4	-11.79	±1880	23.52	±1907.6	PASS
	+30	-1.55		-0.44		-0.38		
	+40	23.16		1.15		-11.85		
	+55	13.79		-7.94		-5.91		
4.2	+25	-7.08		6.81		25.48		
3.6	+25	22.58		-1.83		-15.78		

11. HSPA+ 850MHz Band

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	Channel = 4123 (826.4MHz)		Channel = 4175 (835MHz)		Channel = 4233 (846.6MHz)		
		Hz	Limit	Hz	Limit	Hz	Limit	
3.7	-30	21.33	±2066	-2.45	±2087.5	17.51	±2116.5	PASS
	-20	-11.79		0.77		22.32		
	-10	-0.44		-16.31		31.05		
	0	0.01		-11.79		-17.22		
	+10	13.82		-0.44		-14.51		
	+20	-15.25		0.01		21.35		
	+30	-11.79		23.76		-5.94		
	+40	-0.44		-4.57		13.78		
	+55	1.15		-2.44		28.45		
4.2	+25	-7.94		0.01		29.11		
3.6	+25	11.54		-16.31		-6.75		

12. HSPA+ 1900MHz Band

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	Channel = 9262 (1852.4MHz)		Channel = 9400 (1880.0MHz)		Channel = 9538 (1907.6MHz)		
		Hz	Limits	Hz	Limits	Hz	Limits	
3.7	-30	-16.20	±1852.4	-15.31	±1880	-0.44	±1907.6	PASS
	-20	-12.61		-11.79		0.01		
	-10	-13.09		-0.44		13.82		
	0	-0.38		0.01		-15.25		
	+10	-11.85		-15.31		-11.79		
	+20	29.57		-11.79		-0.44		
	+30	-11.79		-0.44		1.15		
	+40	-0.44		11.01		-17.94		
	+55	13.75		-16.64		-0.44		
4.2	+25	11.54		24.25		10.05		
3.6	+25	-16.27		9.63		13.82		

13. WCDMA 1700MHz Band

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	Channel = 1312 (1712.4MHz)		Channel = 1412 (1732.4MHz)		Channel = 1513 (1752.6MHz)		
		Hz	Limit	Hz	Limit	Hz	Limit	
3.8	-30	17.29	±4281	11.87	±4331	-9.81	±4381.5	PASS
	-20	-7.32		-0.59		-23.82		
	-10	-3.40		21.45		26.39		
	0	16.47		13.45		30.98		
	+10	30.18		1.31		-2.65		
	+20	32.07		-12.52		18.30		
	+30	-7.98		30.62		-12.57		
	+40	26.21		13.45		28.93		
	+50	11.10		-12.52		19.66		
4.2	+25	-6.18		30.62		22.19		
3.6	+25	18.66		-18.00		-18.75		

14. HSDPA 1700MHz Band

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	Channel = 1312 (1712.4MHz)		Channel = 1412 (1732.4MHz)		Channel = 1513 (1752.6MHz)		
		Hz	Limit	Hz	Limit	Hz	Limit	
3.8	-30	16.12	±4281	13.81	±4331	-23.81	±4381.5	PASS
	-20	-17.31		-20.51		26.31		
	-10	-13.20		22.15		29.08		
	0	12.57		19.35		-12.62		
	+10	31.53		21.31		19.30		
	+20	28.07		-17.52		18.30		
	+30	-17.98		28.62		-19.53		
	+40	23.25		17.25		28.93		
	+50	17.10		-19.52		19.66		
4.2	+25	-16.18		30.62		22.19		
3.6	+25	12.65		-18.00		-18.70		

15. HSUPA 1700MHz Band

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	Channel = 1312 (1712.4MHz)		Channel = 1412 (1732.4MHz)		Channel = 1513 (1752.6MHz)		
		Hz	Limit	Hz	Limit	Hz	Limit	
3.8	-30	-4.75	±4281	-18.56	±4331	-21.01	±4381.5	PASS
	-20	18.85		-13.47		-19.32		
	-10	5.05		12.18		22.35		
	0	19.62		-14.06		31.18		
	+10	30.40		18.79		-22.05		
	+20	13.45		22.39		19.33		
	+30	1.31		37.27		-12.57		
	+40	-12.52		2.37		28.93		
	+50	16.10		-11.52		15.62		
4.2	+25	-6.18		-5.41		22.19		
3.6	+25	18.66		12.65		-17.75		

16. HSPA+ 1700MHz Band

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	Channel = 1312 (1712.4MHz)		Channel = 1412 (1732.4MHz)		Channel = 1513 (1752.6MHz)		
		Hz	Limit	Hz	Limit	Hz	Limit	
3.8	-30	12.51	±4281	31.07	±4331	-6.57	±4381.5	PASS
	-20	23.84		28.79		38.42		
	-10	53.59		3.28		12.94		
	0	44.56		27.29		49.17		
	+10	-6.88		-4.29		64.85		
	+20	55.91		10.89		-1.72		
	+30	59.30		9.50		56.31		
	+40	11.35		43.76		3.94		
	+50	21.93		60.11		3.99		
4.2	+25	48.98		53.02		15.36		
3.6	+25	11.59		47.73		11.03		

2.5 Conducted Out of Band Emissions

2.5.1 Requirement

According to FCC section 22.917(a) and FCC section 24.238(a), 27.53(g) the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43+10*log(P)dB. This calculated to be -13dBm.

2.5.2 Test Description

See section 2.1.2 of this report.

2.5.3 Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the out of band emissions.

1. Test Verdict:

Band	Channel	Frequency (MHz)	Measured Max. Spurious Emission (dBm)	Refer to Plot	Limit (dBm)	Verdict
GSM 850MHz	128	824.2	< -25	Plot A1toA1.1	-13	PASS
	190	836.6	< -25	Plot A2toA2.1		PASS
	251	848.8	< -25	Plot A3toA3.1		PASS
GSM 1900MHz	512	1850.2	< -25	Plot B1toB1.1	-13	PASS
	661	1880.0	< -25	Plot B2toB2.1		PASS
	810	1909.8	< -25	Plot B3toB3.1		PASS
EDGE 850MHz	128	824.2	< -25	Plot C1toC1.1	-13	PASS
	190	836.6	< -25	Plot C2toC2.1		PASS
	251	848.8	< -25	Plot C3toC3.1		PASS
EDGE 1900MHz	512	1850.2	< -25	Plot D1toD1.1	-13	PASS
	661	1880.0	< -25	Plot D2toD2.1		PASS
	810	1909.8	< -25	Plot D3toD3.1		PASS
WCDMA 850MHz	4132	826.4	< -25	Plot E1toE1.1	-13	PASS
	4175	835	< -25	Plot E2toE2.1		PASS
	4233	846.6	< -25	Plot E3toE3.1		PASS
WCDMA 1900MHz	9262	1852.4	< -25	Plot F1toF1.1	-13	PASS
	9400	1880	< -25	Plot F2toF2.1		PASS
	9538	1907.6	< -25	Plot F3toF3.1		PASS
HSDPA	4132	826.4	< -25	Plot G1toG1.1	-13	PASS

Band	Channel	Frequency (MHz)	Measured Max. Spurious Emission (dBm)	Refer to Plot	Limit (dBm)	Verdict
850MHz	4175	835	< -25	Plot G2toG2.1		PASS
	4233	846.6	< -25	Plot G3toG3.1		PASS
HSDPA 1900MHz	9262	1852.4	< -25	Plot H1toH1.1	-13	PASS
	9400	1880	< -25	Plot H2toH2.1		PASS
	9538	1907.6	< -25	Plot H3toH3.1		PASS
HSUPA 850MHz	4132	826.4	< -25	Plot I1toI1.1	-13	PASS
	4175	835	< -25	Plot I2toI2.1		PASS
	4233	846.6	< -25	Plot I3toI3.1		PASS
HSUPA 1900MHz	9262	1852.4	< -25	Plot J1toJ1.1	-13	PASS
	9400	1880	< -25	Plot J2toJ2.1		PASS
	9538	1907.6	< -25	Plot J3toJ3.1		PASS
HSPA+ 850MHz	4132	826.4	< -25	Plot K1toK1.1	-13	PASS
	4175	835	< -25	Plot K2toK2.1		PASS
	4233	846.6	< -25	Plot K3toK3.1		PASS
HSPA+ 1900MHz	9262	1852.4	< -25	Plot L1toL1.1	-13	PASS
	9400	1880	< -25	Plot L2toL2.1		PASS
	9538	1907.6	< -25	Plot L3toL3.1		PASS
WCDMA 1700MHz	1312	1712.4	< -25	Plot M1toM1.1	-13	PASS
	1412	1732.4	< -25	Plot M2toM2.1		PASS
	1513	1752.6	< -25	Plot M3toM3.1		PASS
HSDPA 1700MHz	1312	1712.4	< -25	Plot N1toN1.1	-13	PASS
	1412	1732.4	< -25	Plot N2toN2.1		PASS
	1513	1752.6	< -25	Plot N3toN3.1		PASS
HSUPA 1700MHz	1312	1712.4	< -25	Plot O1toO1.1	-13	PASS
	1412	1732.4	< -25	Plot O2toO2.1		PASS
	1513	1752.6	< -25	Plot O3toO3.1		PASS
HSPA+ 1700MHz	1312	1712.4	< -25	Plot P1toP1.1	-13	PASS
	1412	1732.4	< -25	Plot P2toP2.1		PASS
	1513	1752.6	< -25	Plot P3toP3.1		PASS

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2. Test Plots for the Whole Measurement Frequency Range:

Note: the power of the EUT transmitting frequency should be ignored.
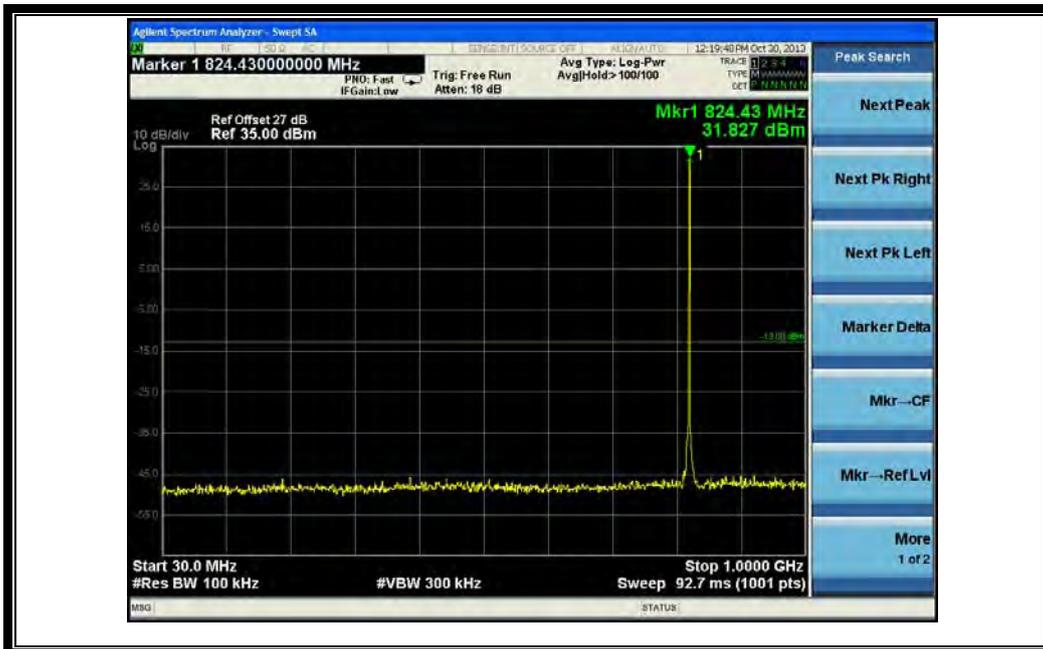
(Plot A1:GSM 850MHz Channel = 128, 30MHz to 1GHz)

(Plot A1.1: GSM 850MHz Channel = 128, 1GHz to 9GHz)

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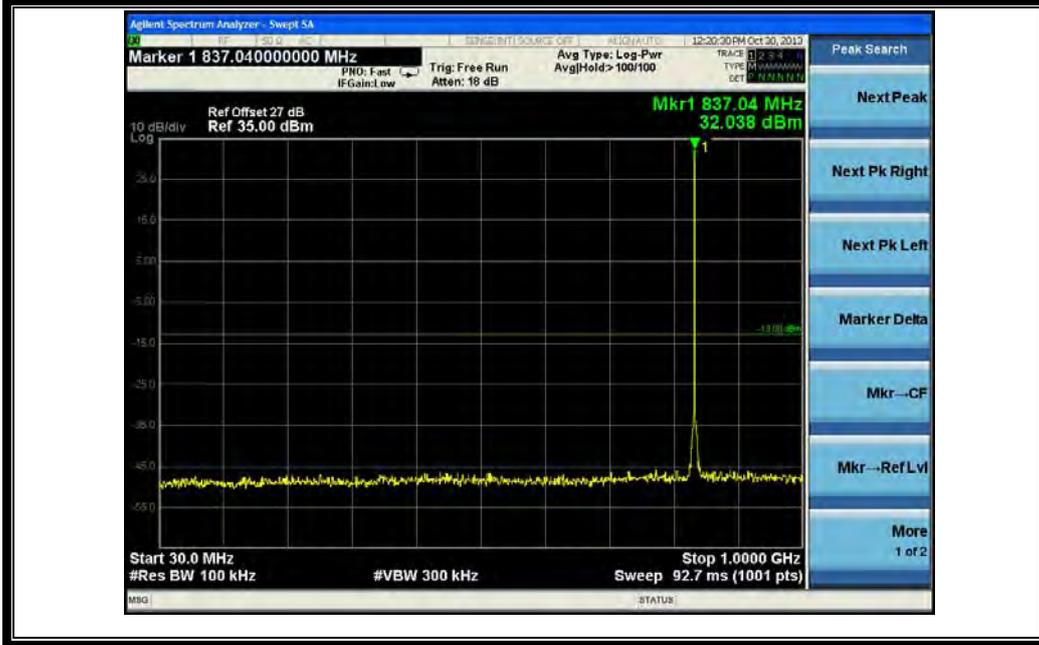
(Plot A2:GSM 850MHz Channel = 190, 30MHz to 1GHz)

(Plot A2.1:   GSM 850MHz Channel = 190, 1GHz to 9GHz)
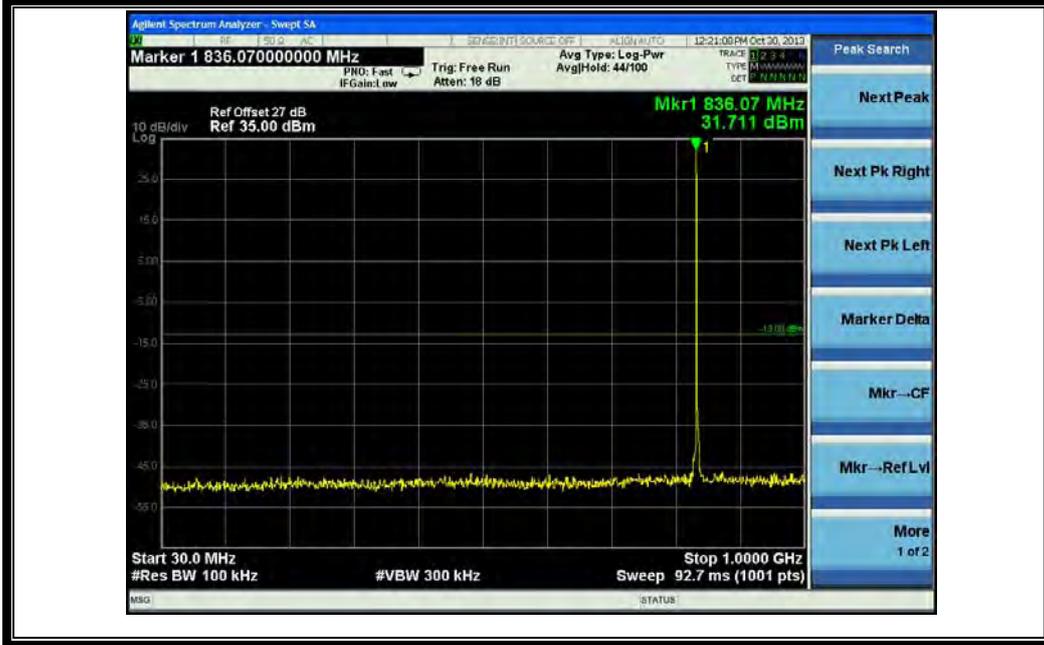
(Plot A3:GSM 850MHz Channel = 251, 30MHz to 1GHz)

(Plot A3.1:   GSM 850MHz Channel = 251, 1GHz to 9GHz)
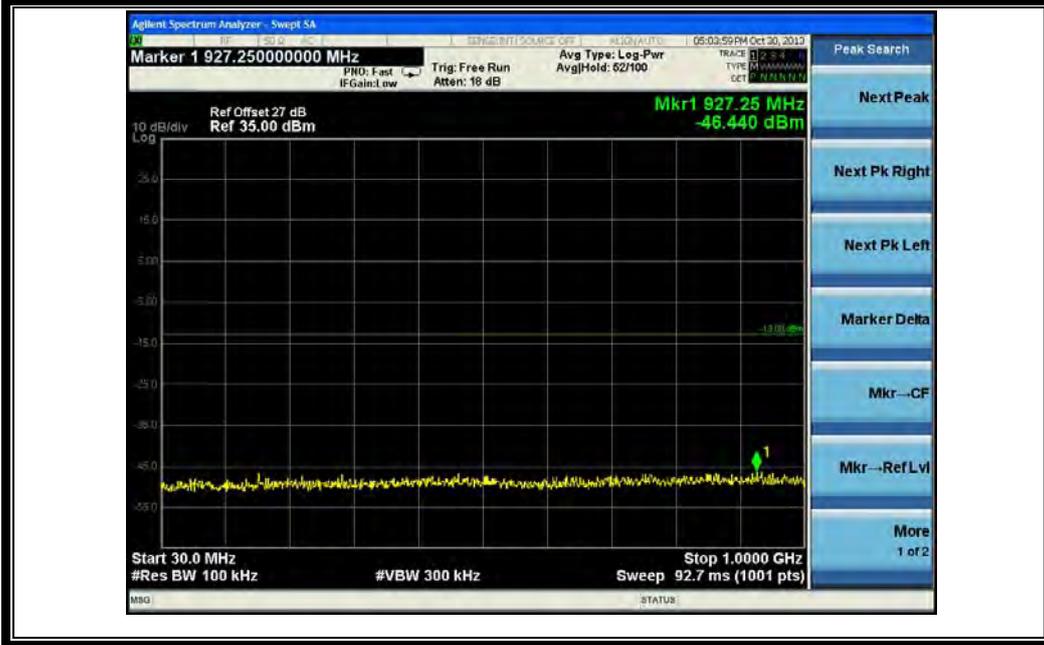
(Plot B1:   GSM 1900MHz Channel = 512, 30MHz to 1GHz)
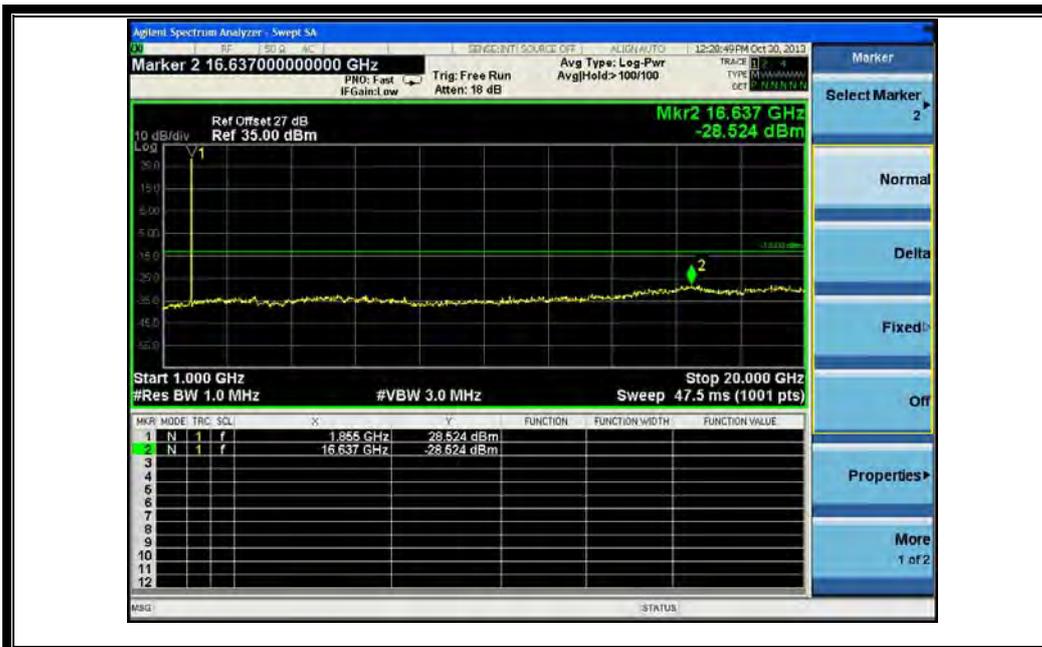
(Plot B1.1:   GSM 1900MHz Channel = 512, 1GHz to 20GHz)
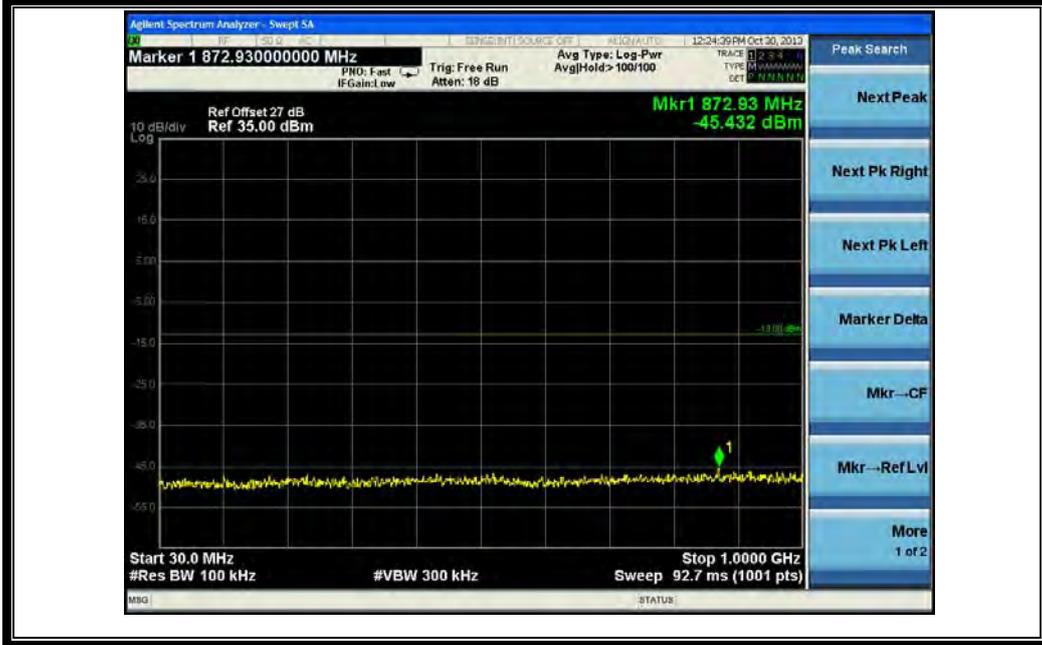
(Plot B2: GSM 1900MHz Channel = 661, 30MHz to 1GHz)
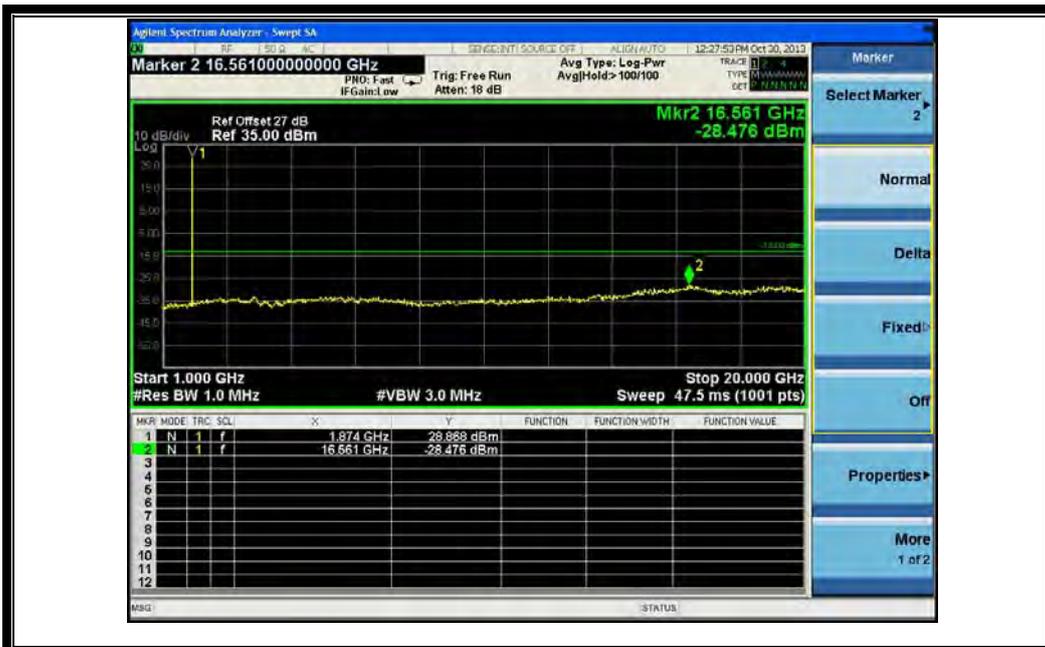

(Plot B2.1: GSM 1900MHz Channel = 661, 1GHz to 20GHz)
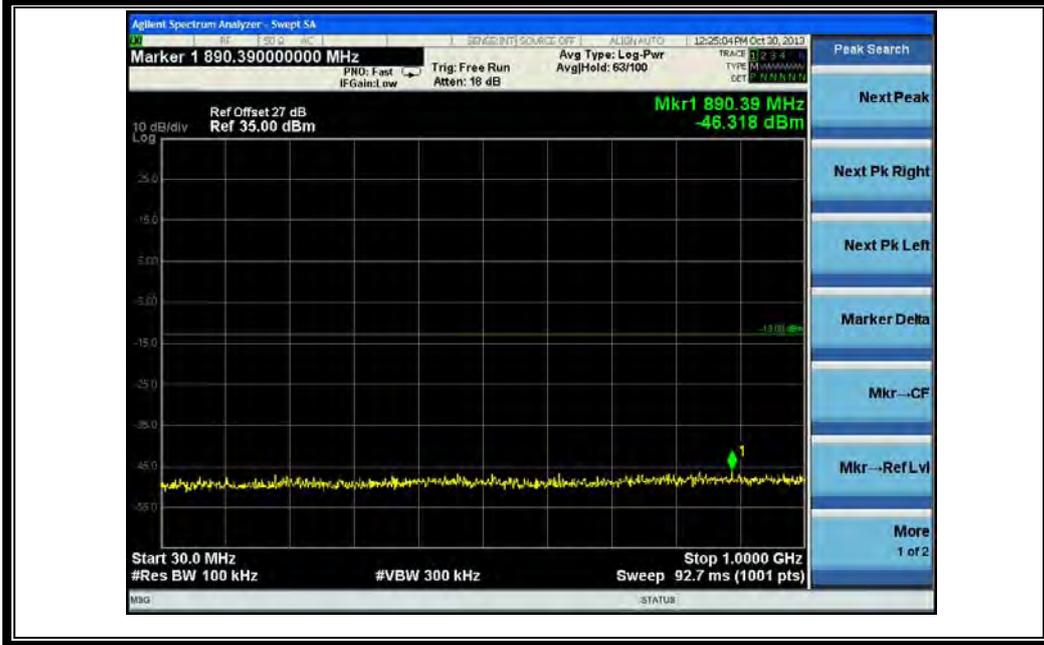
(Plot B3:   GSM 1900MHz Channel = 810, 30MHz to 1GHz)
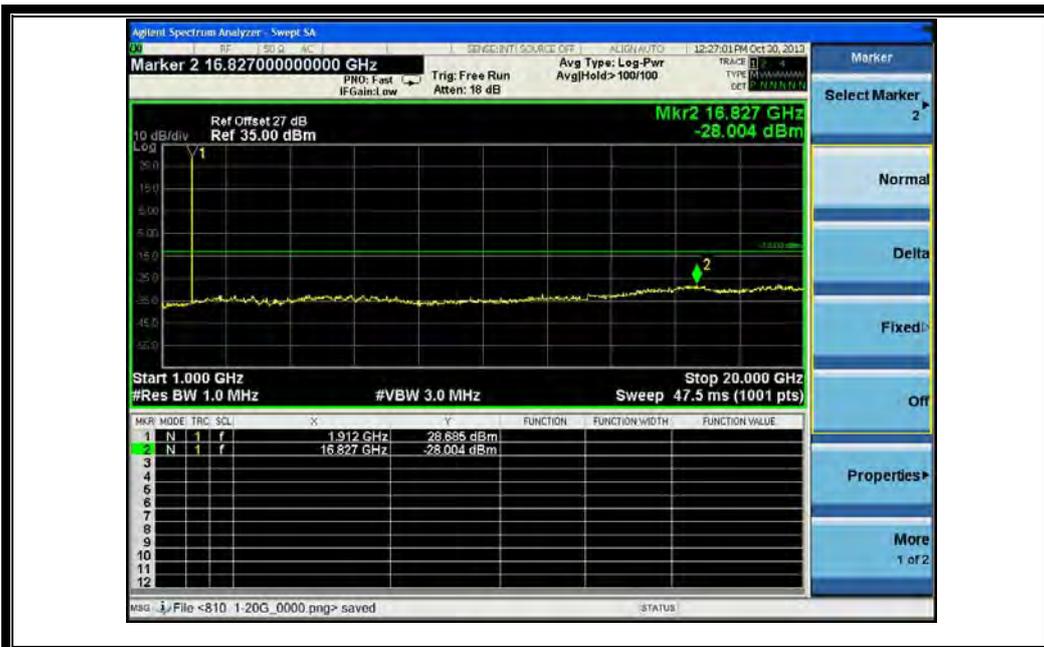
(Plot B3.1:   GSM 1900MHz Channel = 810, 1GHz to 20GHz)
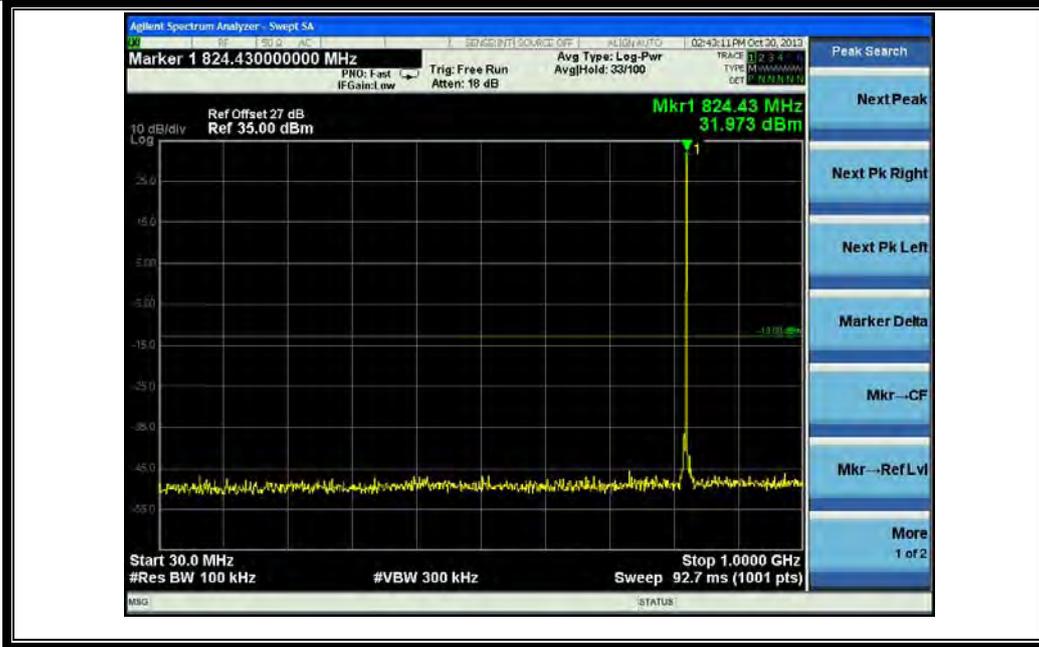
(Plot C1:   EDGE 850MHz Channel = 128, 30MHz to 1GHz)

(Plot C1.1:   EDGE 850MHz Channel = 128, 1GHz to 9GHz)
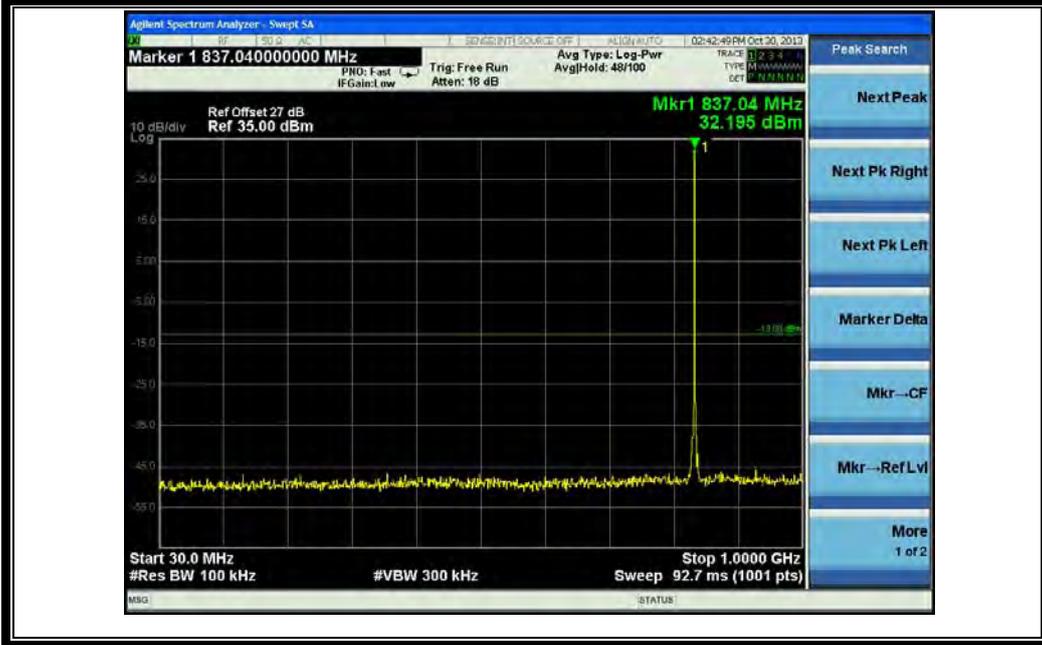
(Plot C2:   EDGE 850MHz Channel = 190, 30MHz to 1GHz)

(Plot C2.1:   EDGE 850MHz Channel = 190, 1GHz to 9GHz)
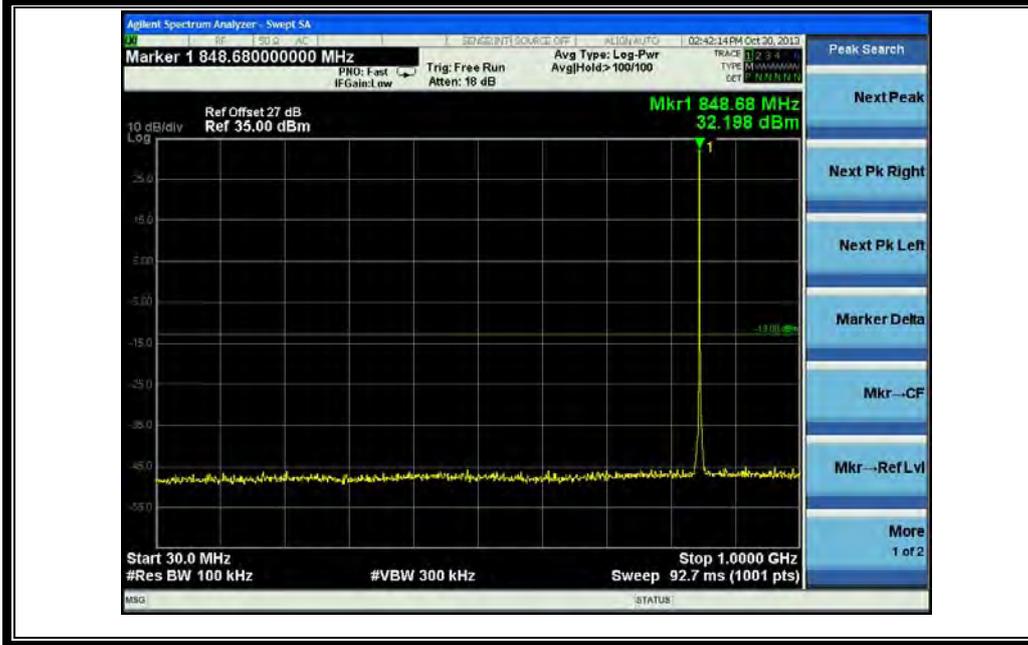
(Plot C3:   EDGE 850MHz Channel = 251, 30MHz to 1GHz)


(Plot C3.1:   EDGE 850MHz Channel = 251, 1GHz to 9GHz)
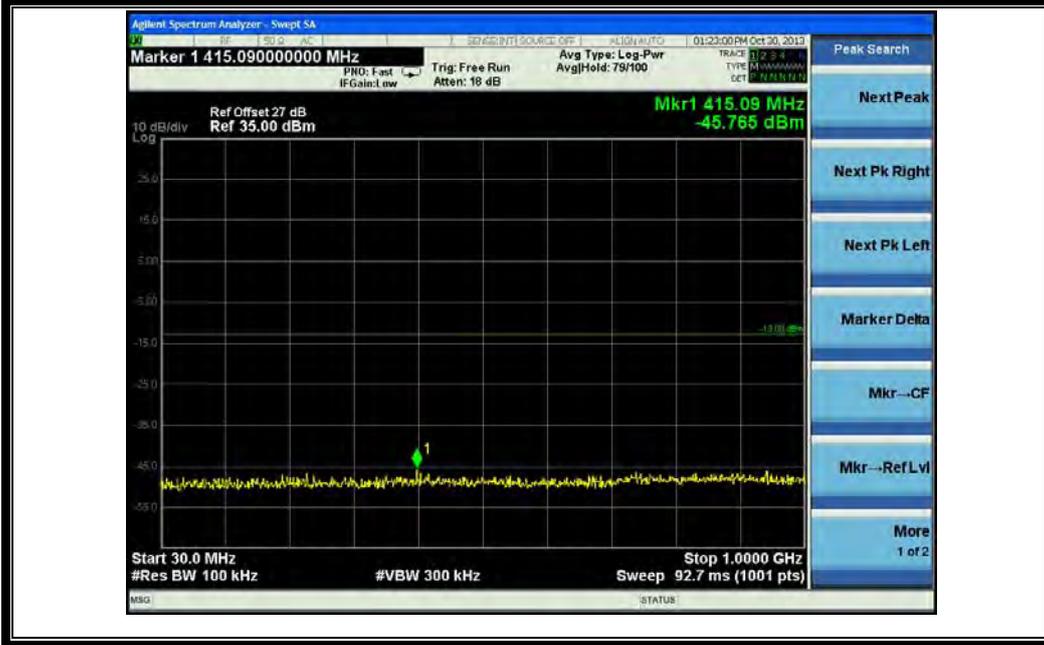
(Plot D1:   EDGE 1900MHz Channel = 512, 30MHz to 1GHz)
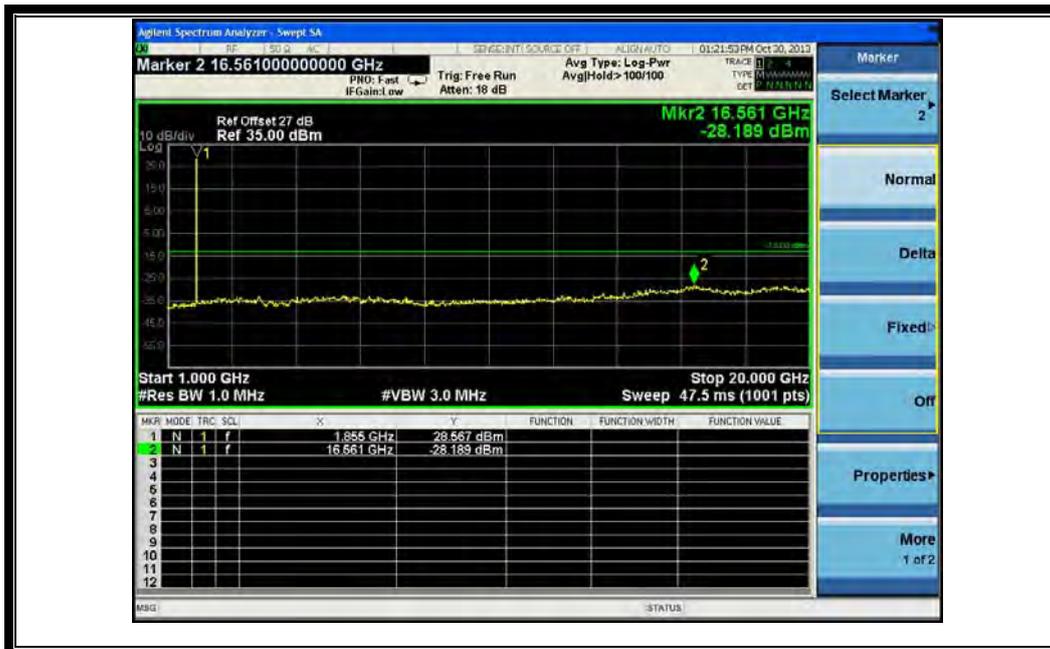
(Plot D1.1:   EDGE 1900MHz Channel = 512, 1GHz to 20GHz)

(Plot D2:　　EDGE 1900MHz Channel = 661, 30MHz to 1GHz)
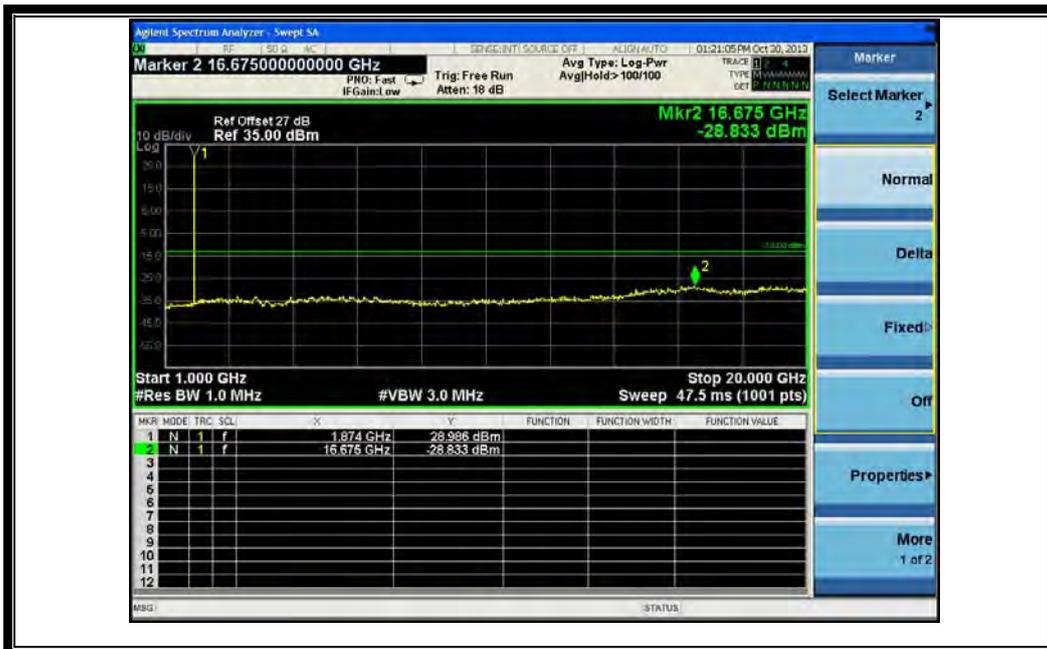
(Plot D2.1:　EDGE 1900MHz Channel = 661,1GHz to 20GHz)

(Plot D3:   EDGE 1900MHz Channel = 810, 30MHz to 1GHz)
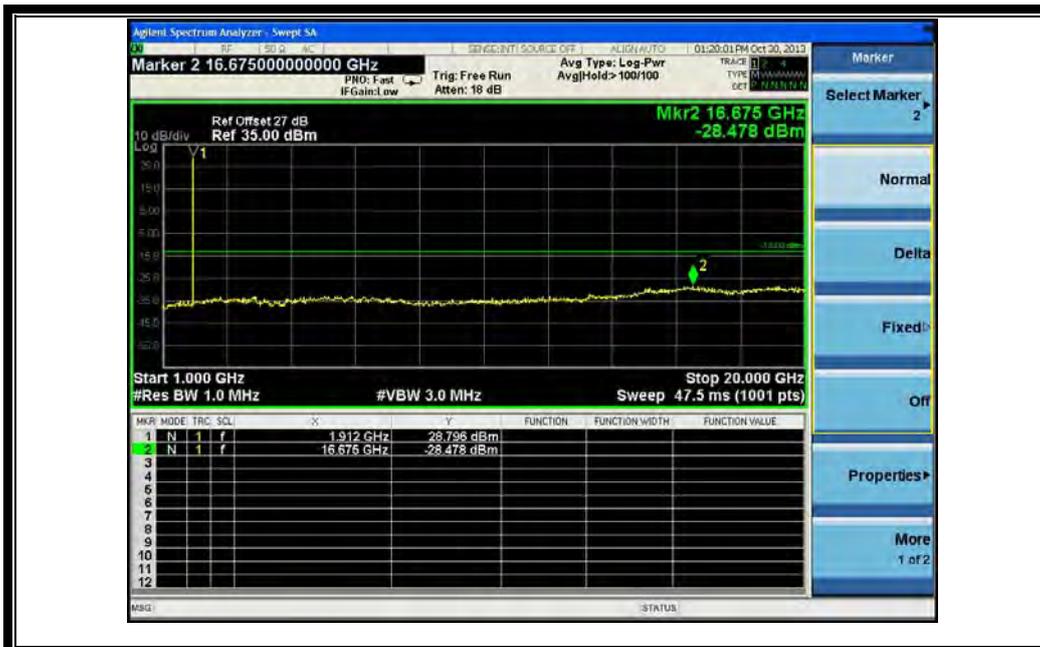
(Plot D3.1:   EDGE 1900MHz Channel = 810, 1GHz to 20GHz)
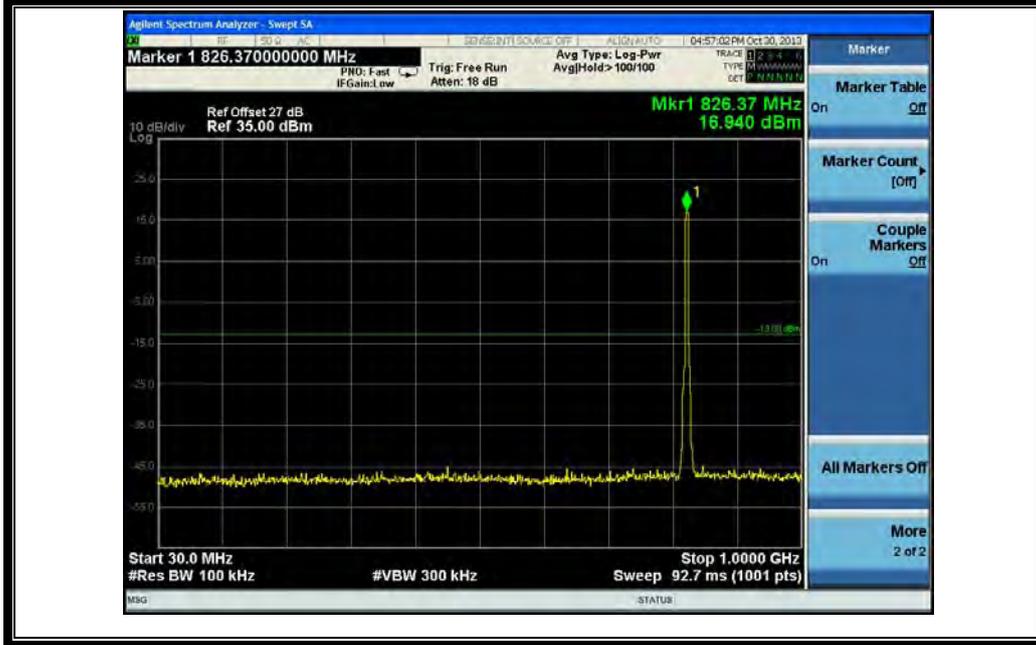
(Plot E1:   WCDMA850MHz Channel = 4132, 30MHz to 1GHz)

(Plot E1.1:   WCDMA850MHz Channel = 4132, 1GHz to 9GHz)
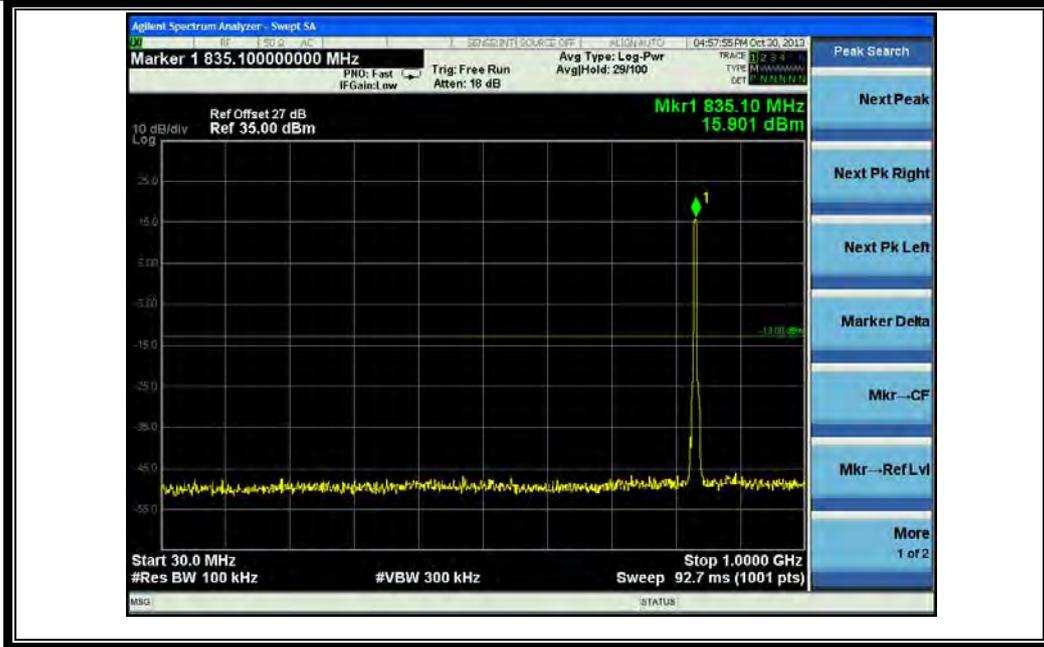
(Plot E2:   WCDMA850MHz Channel = 4175, 30MHz to 1GHz)

(Plot E2.1:   WCDMA850MHz Channel = 4175, 1GHz to 9GHz)
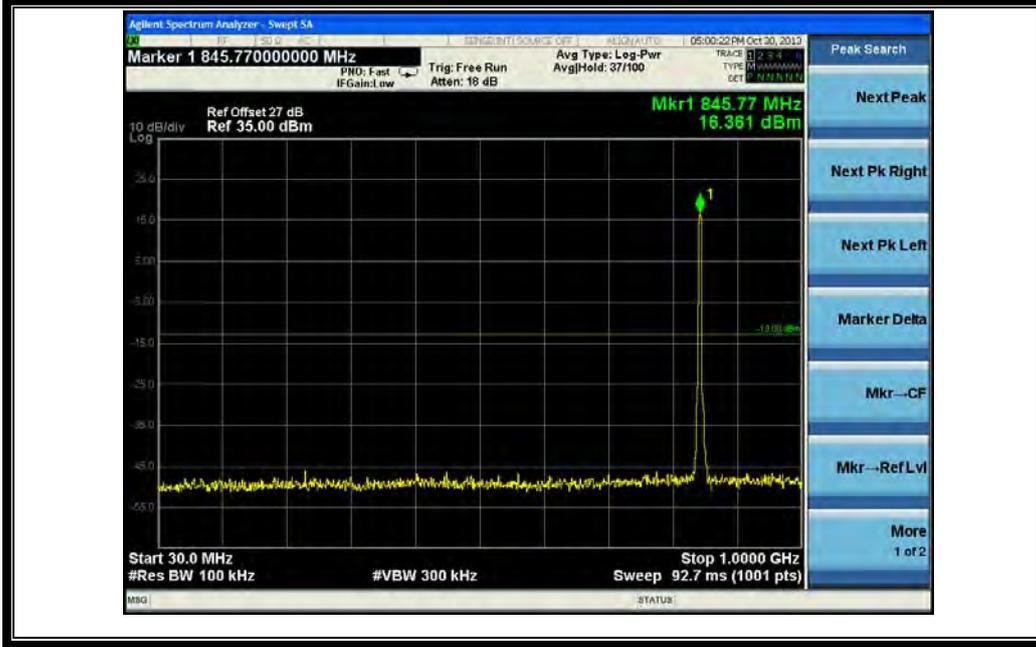
(Plot E3:　　WCDMA850MHz Channel = 4233, 30MHz to 1GHz)
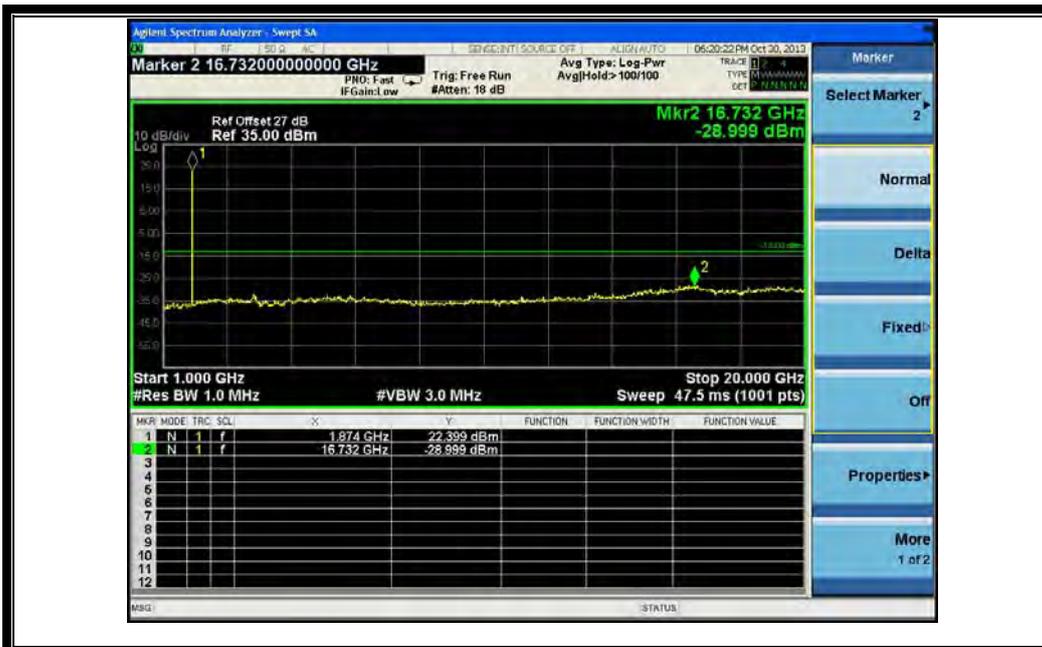

(Plot E3.1:　WCDMA850MHz Channel = 4233, 1GHz to 9GHz)
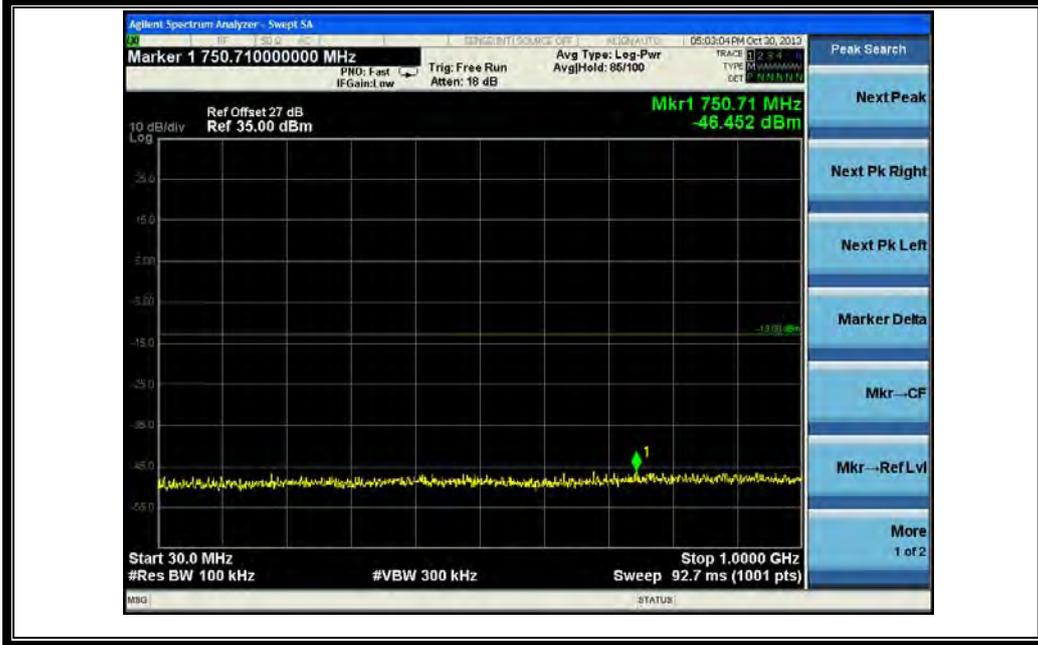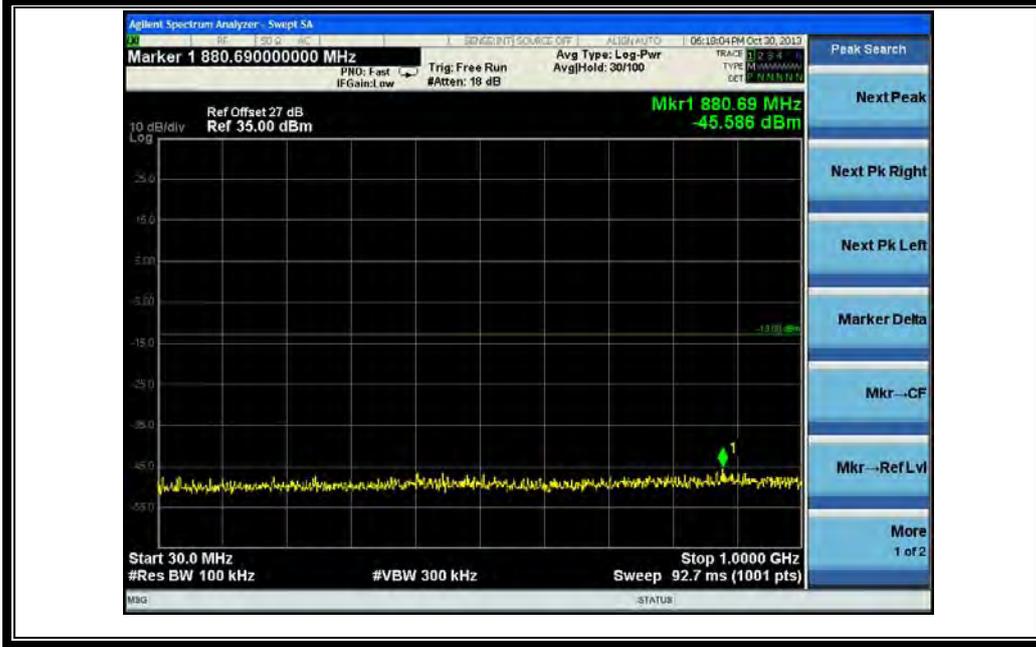
(Plot F1:WCDMA1900MHz Channel = 9262, 30MHz to 1GHz)
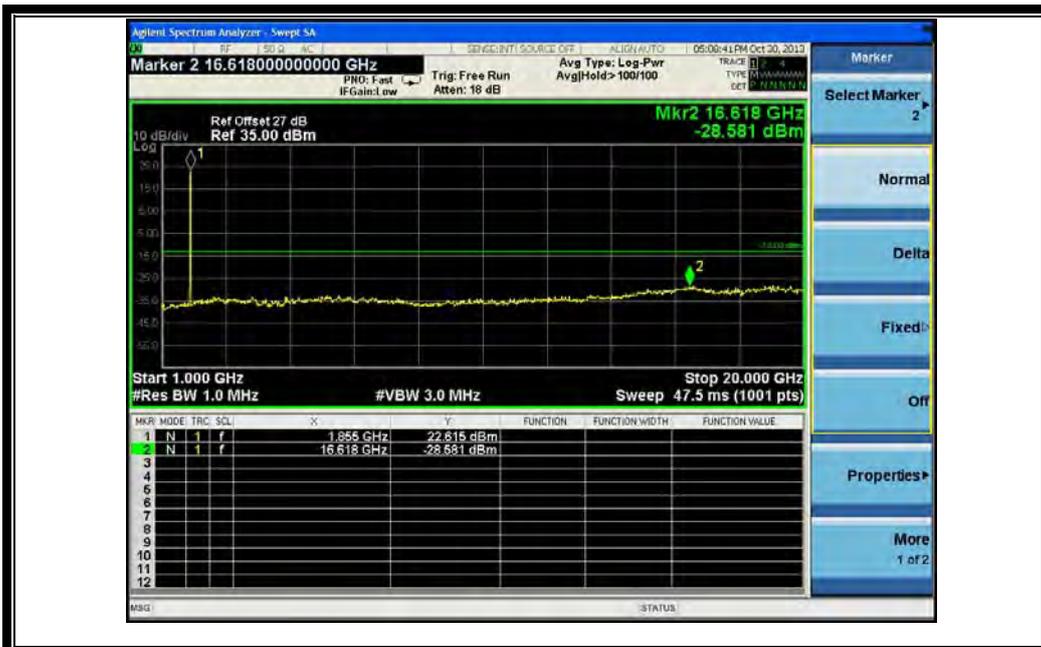


(Plot F1.1:   WCDMA1900MHz Channel = 9262, 1GHz to 20GHz)
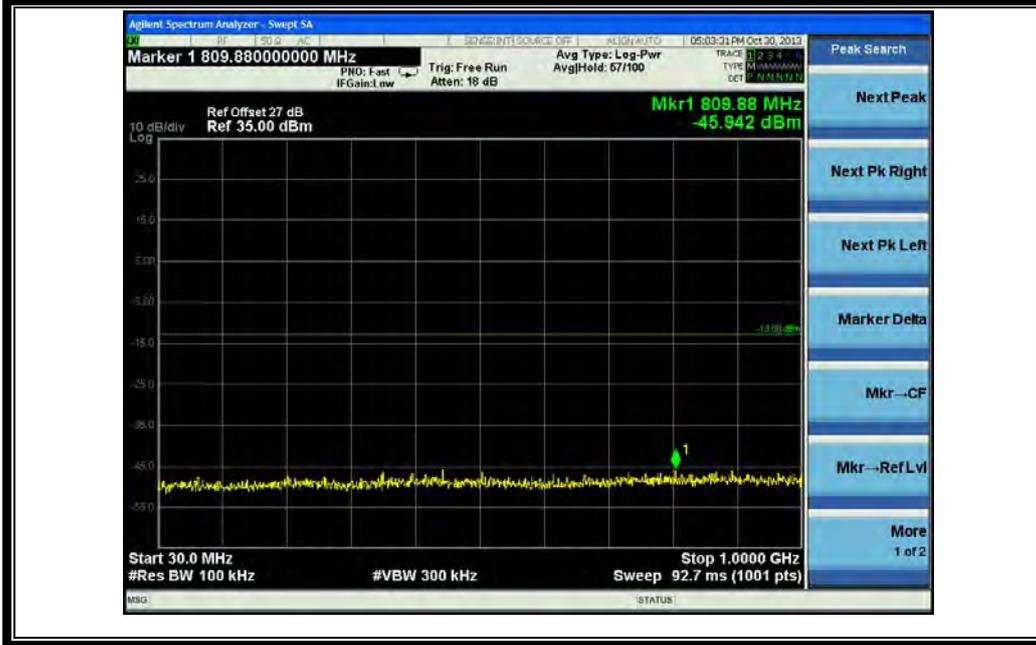
(Plot F2:WCDMA1900MHz Channel = 9400, 30MHz to 1GHz)
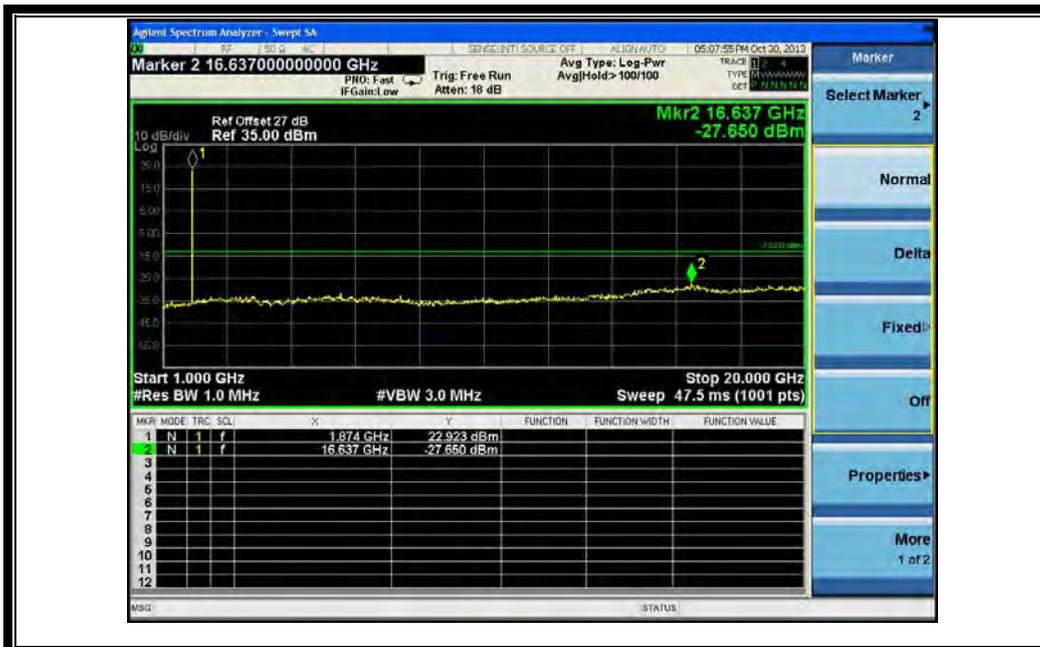
(Plot F2.1: WCDMA1900MHz Channel = 9400, 1GHz to 20GHz)

(Plot F3:WCDMA1900MHz Channel = 9538, 30MHz to 1GHz)
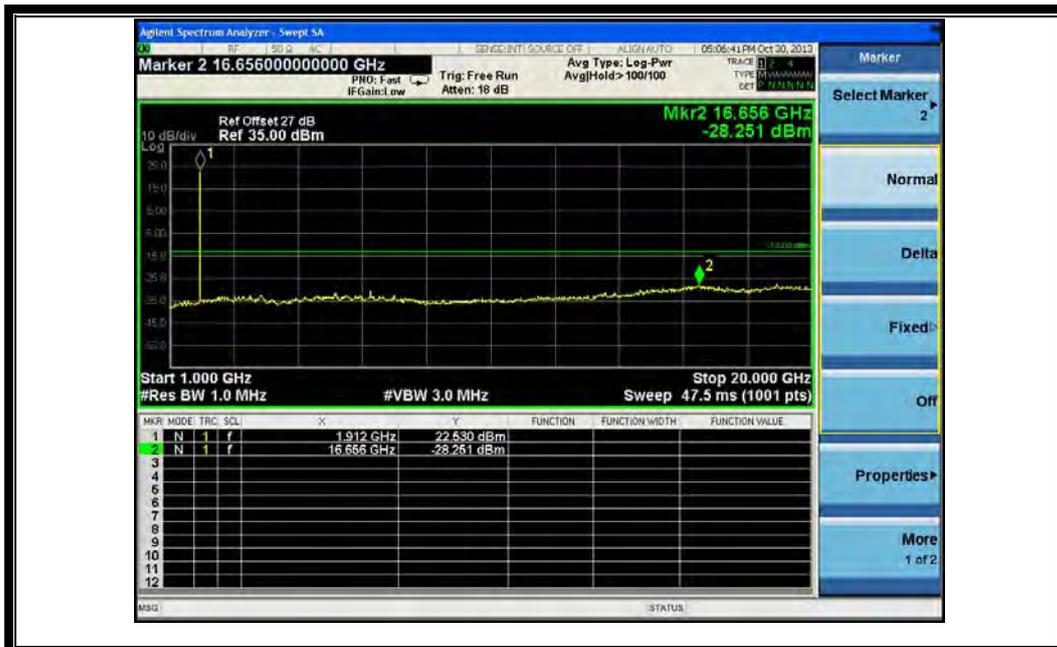
(Plot F3.1:   WCDMA1900MHz Channel = 9538 1GHz to 20GHz)
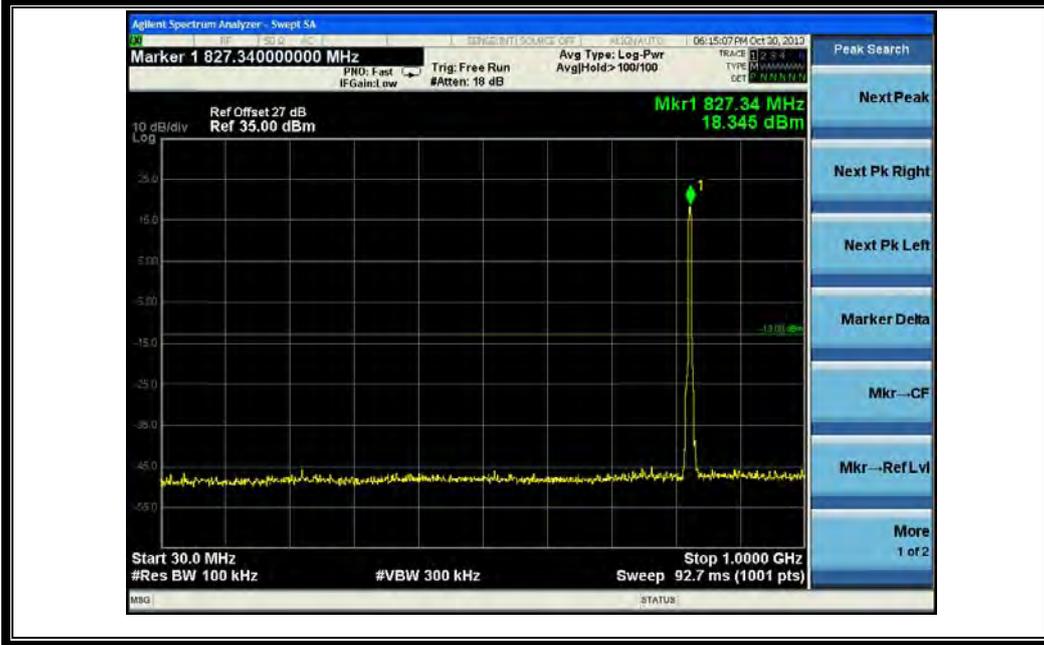
(Plot G1:   HSDPA 850MHz Channel = 4132, 30MHz to 1GHz)

(Plot G1.1:   HSDPA 850MHz Channel = 4132, 1GHz to 9GHz)
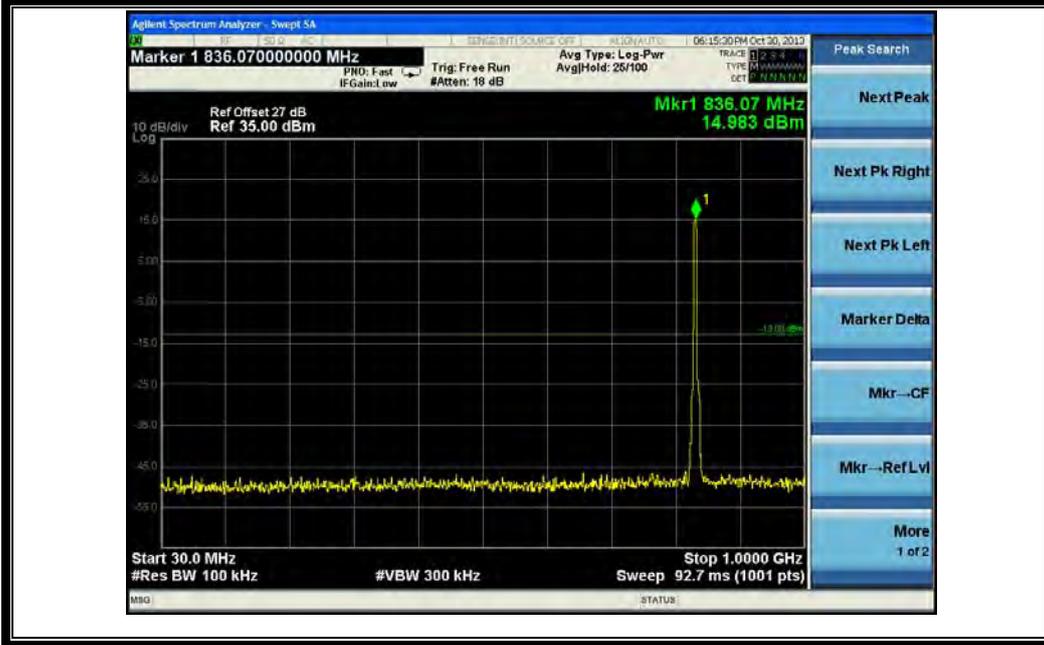
(Plot G2:   HSDPA 850MHz Channel = 4175, 30MHz to 1GHz)

(Plot G2.1:   HSDPA 850MHz Channel = 4175, 1GHz to 9GHz)
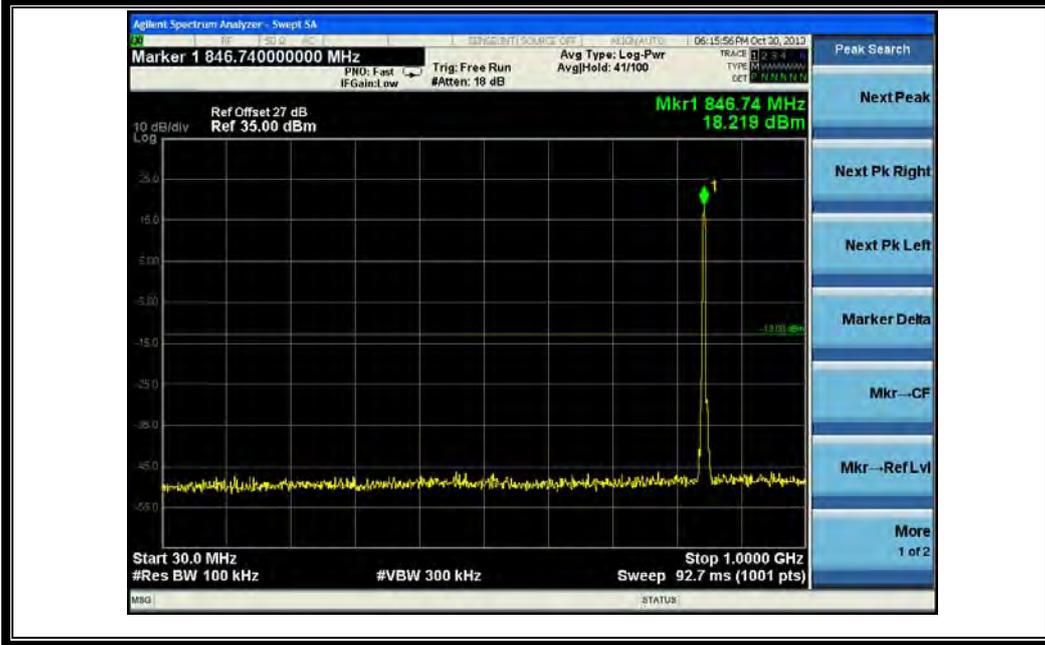
(Plot G3:   HSDPA850MHz Channel = 4233, 30MHz to 1GHz)

(Plot G3.1:   HSDPA850MHz Channel = 4233, 1GHz to 9GHz)

(Plot H1:　　HSDPA1900MHz Channel = 9262, 30MHz to 1GHz)
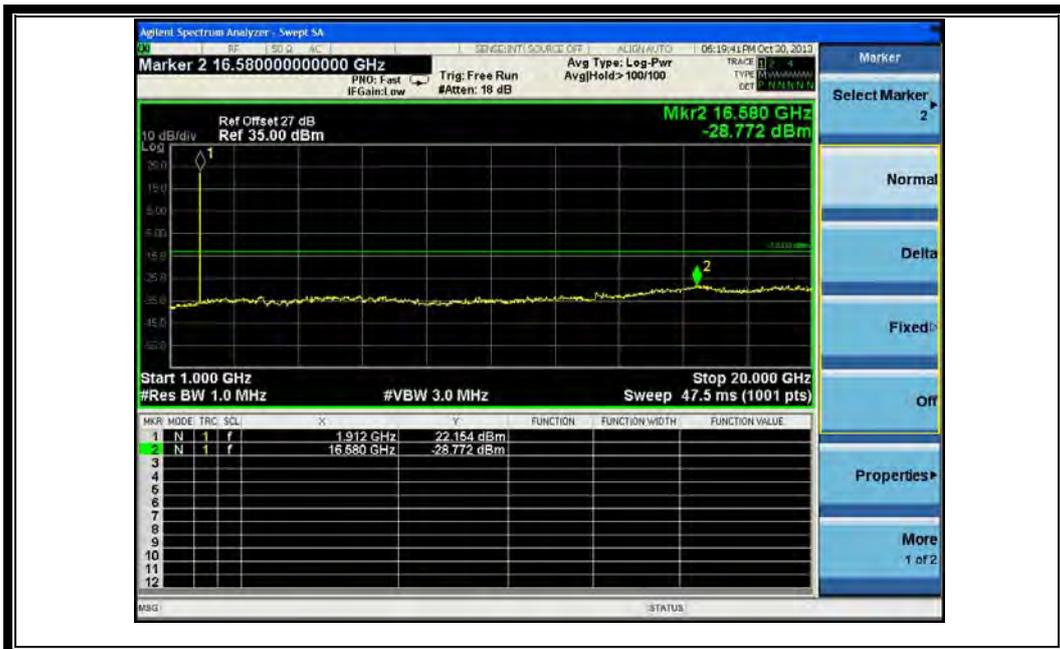
(Plot H1.1:　HSDPA1900MHz Channel = 9262, 1GHz to 20GHz)
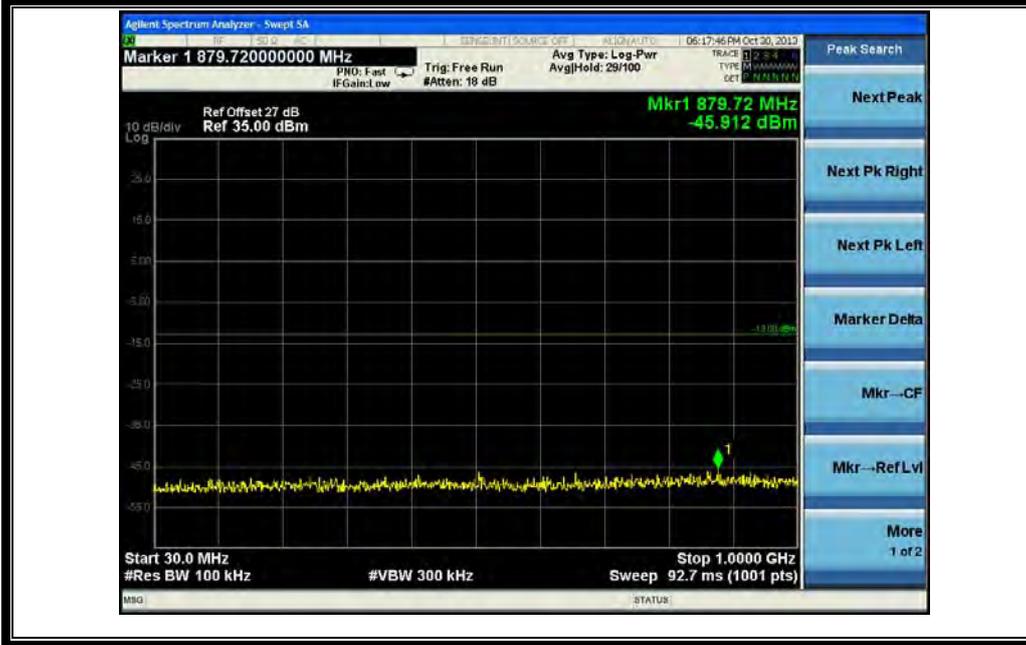
(Plot H2:   HSDPA1900MHz Channel = 9400, 30MHz to 1GHz)

(Plot H2.1:   HSDPA1900MHz Channel = 9400, 1GHz to 20GHz)

(Plot H3:   HSDPA1900MHz Channel = 9538, 30MHz to 1GHz)
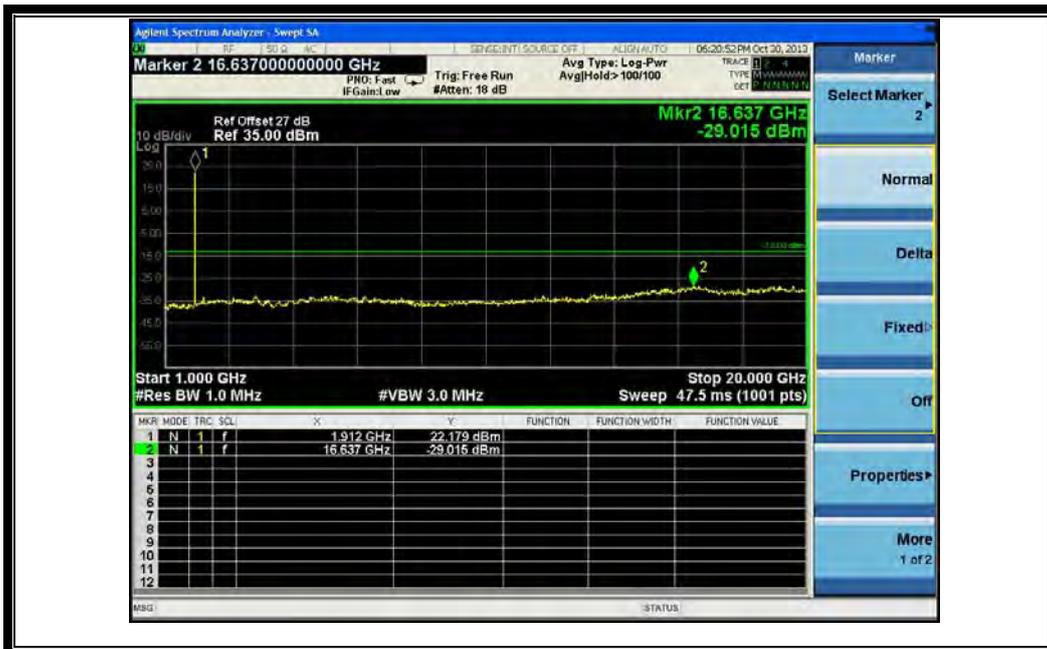
(Plot H3.1:   HSDPA1900MHz Channel = 9538 1GHz to 20GHz)
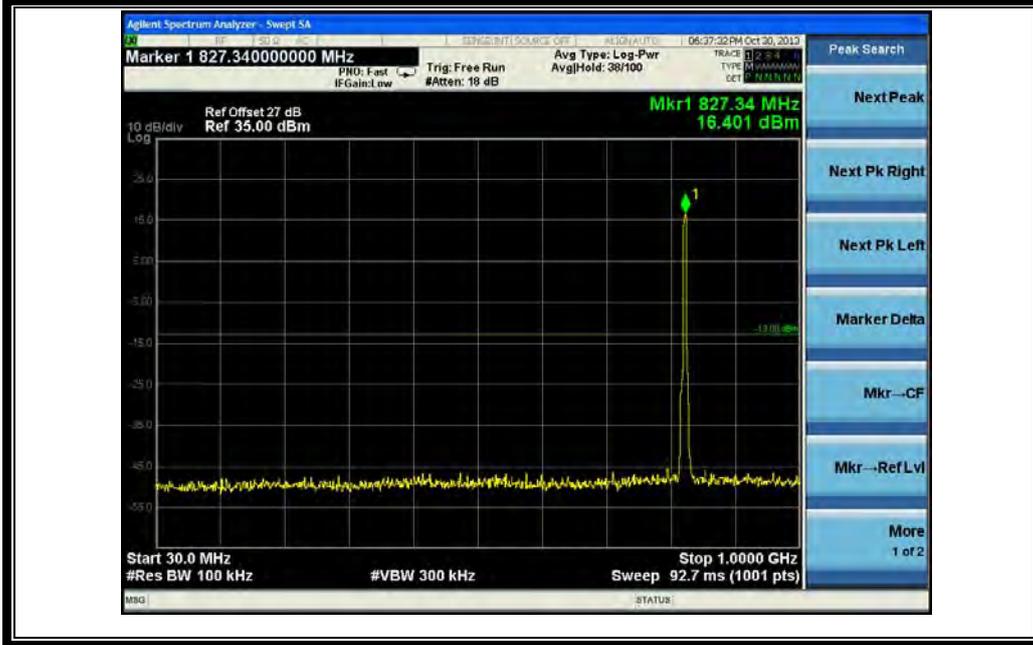
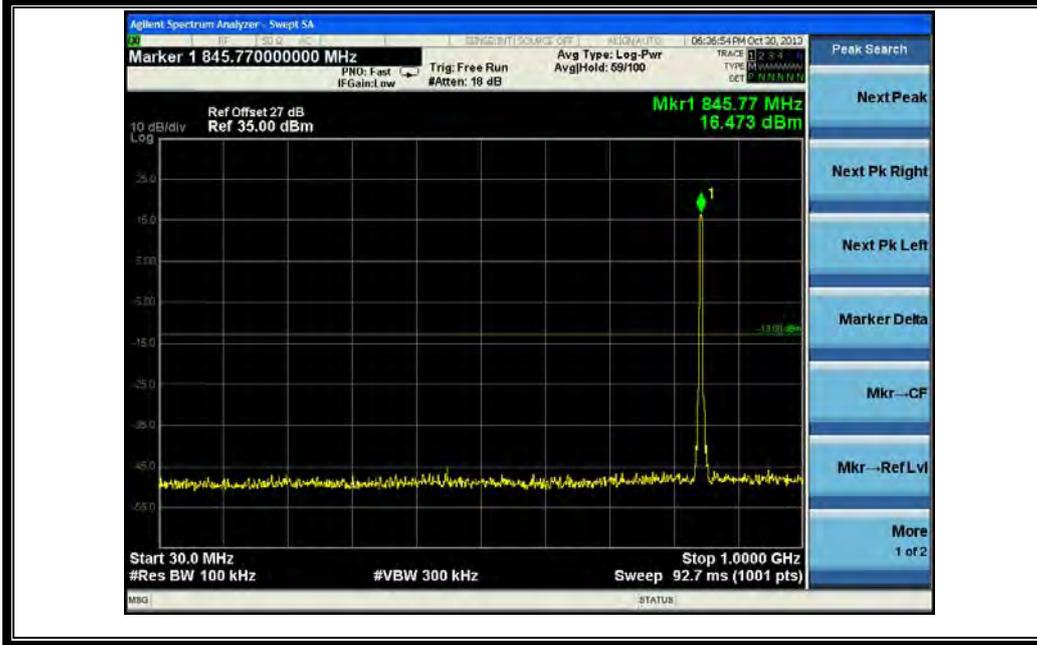(Plot I 1: HSUPA 850MHz Channel = 4132, 30MHz to 1GHz)

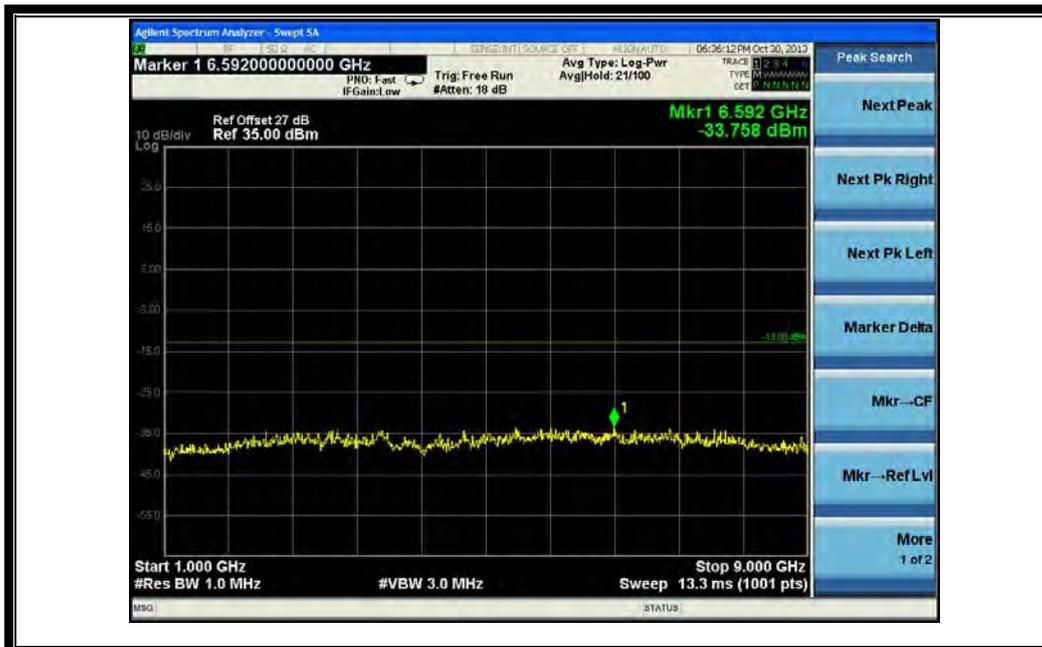
(Plot I1.1:   HSUPA 850MHz Channel = 4132, 1GHz to 9GHz)
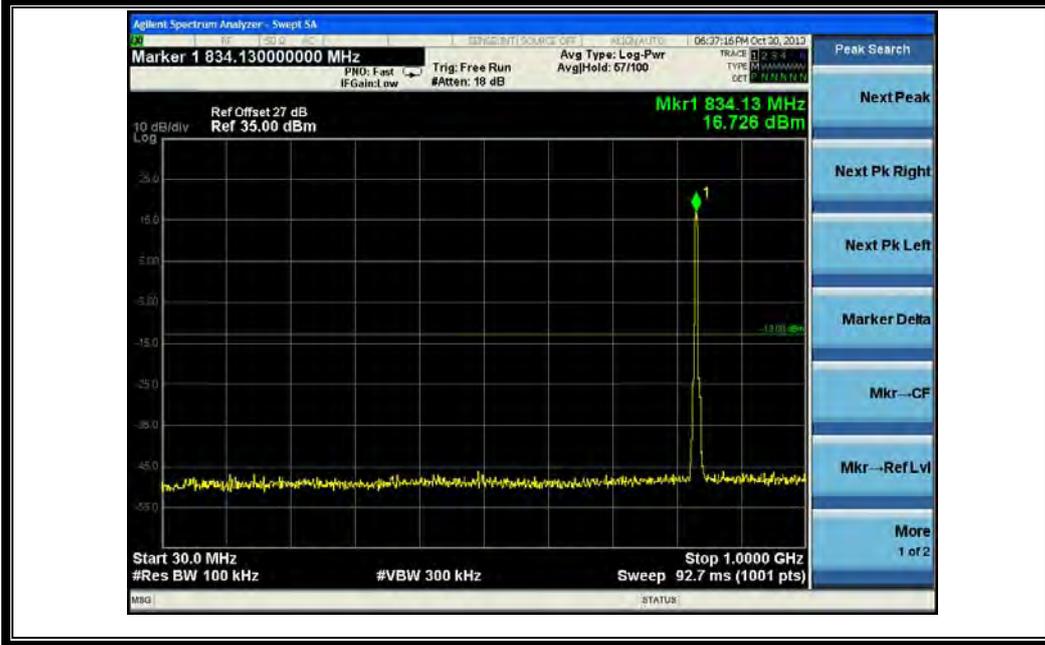
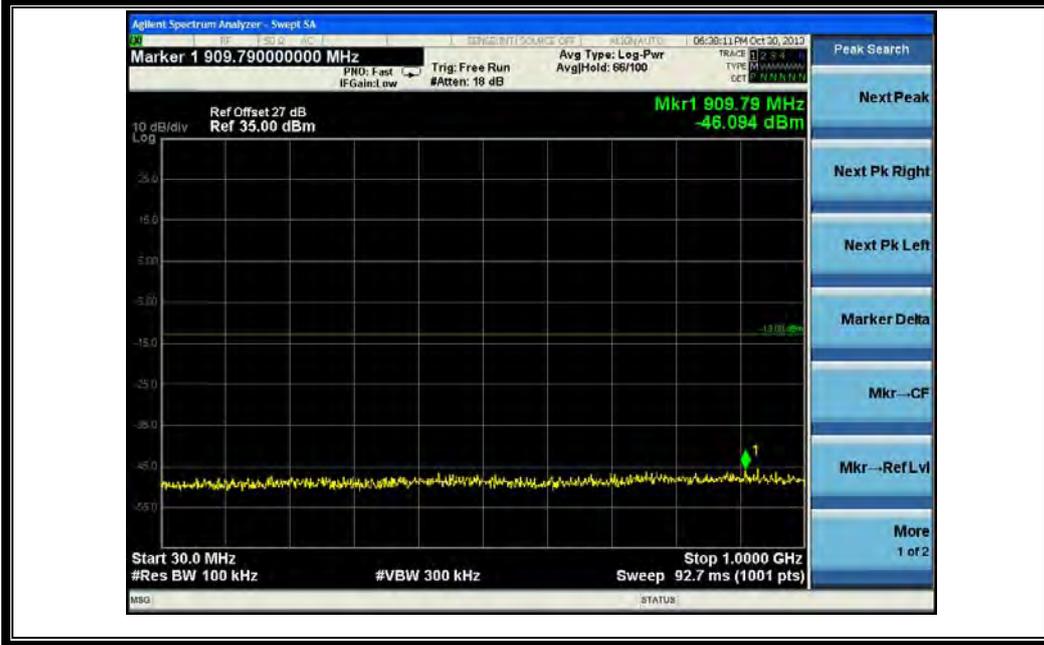(Plot I 2: HSUPA 850MHz Channel = 4175, 30MHz to 1GHz)

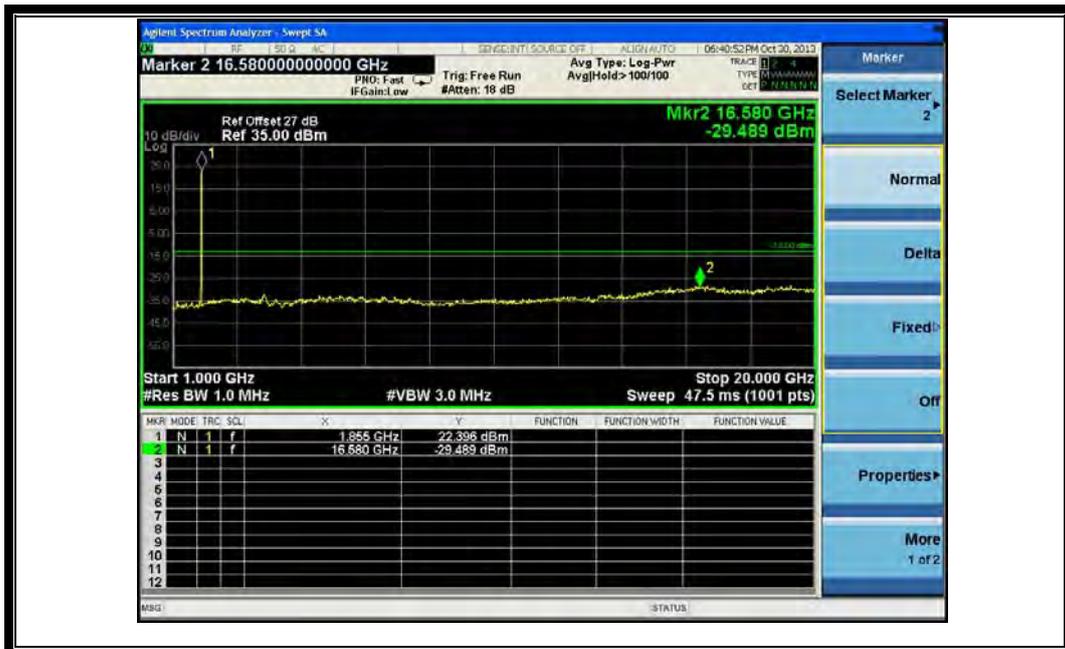(Plot I2.1:   HSUPA 850MHz Channel = 4175, 1GHz to 9GHz)

(Plot I 3: HSUPA850MHz Channel = 4233, 30MHz to 1GHz)

(Plot I3.1: HSUPA850MHz Channel = 4233, 1GHz to 9GHz)

(Plot J 1:   HSUPA1900MHz Channel = 9262, 30MHz to 1GHz)

(Plot J1.1:   HSUPA1900MHz Channel = 9262, 1GHz to 20GHz)