



REPORT No.: SZ16030142W04

# FCC RF TEST REPORT

**APPLICANT** : ZTE Corporation  
**PRODUCT NAME** : LTE Mutil-Mode Digital Mobile Phone  
**MODEL NAME** : Z861BL  
**TRADE NAME** : ZTE  
**BRAND NAME** : ZTE  
**FCC ID** : SRQ-Z861BL  
**STANDARD(S)** : 47 CFR Part 22 Subpart H  
                  47 CFR Part 24 Subpart E  
                  47 CFR Part 27 Subpart L  
**ISSUE DATE** : 2016-05-19



SHENZHEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd.

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Change History		
Issue	Date	Reason for change
1.0	2016-05-19	First edition



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## TEST REPORT DECLARATION

Applicant	ZTE Corporation
Applicant Address	ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, P.R.China
Manufacturer	ZTE Corporation
Manufacturer Address	ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, P.R.China
Product Name	LTE Mutil-Mode Digital Mobile Phone
Model Name	Z861BL
Brand Name	ZTE
HW Version	Z861BLHWV1.0
SW Version	Z861BLV0.0.0B02
Test Standards	47 CFR Part 22 Subpart H 47 CFR Part 24 Subpart E 47 CFR Part 27 Subpart L
Test Date	2016-04-06 to 2016-04-27
Test Result	PASS

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Approved by : Peng Huarui  
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## 1. GENERAL INFORMATION

### 1.1 EUT Description

EUT Type ..... : LTE Mutil-Mode Digital Mobile Phone  
Serial No. ..... : (n.a, marked #1 by test site)  
Hardware Version ..... : Z861BLHWV1.0  
Software Version ..... : Z861BLV0.0.0B02  
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 1700MHz  
Tx: 1712.4 – 1752.6MHz (at intervals of 200kHz);  
Rx: 2112.4 - 2152.6MHz (at intervals of 200kHz)  
WCDMA 1900MHz  
Tx: 1852.4 - 1907.6MHz (at intervals of 200kHz);  
Rx: 1932.4 - 1987.6MHz (at intervals of 200kHz)  
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 Class10; EGPRS: Multislot Class10  
Antenna Type ..... : PIFA Antenna  
Emission Designators ..... : GSM 850:248KGXW,GSM 1900:259KGXW  
EGPRS850:250KG7W, EGPRS1900:247KG7W,



WCDMA 850:4M15F9W ,WCDMA1700:4M18F9W  
WCDMA1900:4M17F9W

**Note 1:** The transmitter (Tx) frequency arrangement of the Cellular 850MHz band used by the EUT can be represented with the formula  $F(n)=824.2+0.2*(n-128)$ ,  $128 \leq n \leq 251$ ; the lowest, middle, highest channel numbers (ARFCNs) 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  $F(n)=1850.2+0.2*(n-512)$ ,  $512 \leq n \leq 810$ ; the lowest, middle and highest channel numbers (ARFCNs) 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  $F(n)=826.4+0.2*(n-4132)$ ,  $4132 \leq n \leq 4233$ ; the lowest, middle and highest channel numbers (ARFCNs) 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  $F(n)=1852.4+0.2*(n-9262)$ ,  $9262 \leq n \leq 9538$ ; the lowest, middle and highest channel numbers (ARFCNs) used and tested in this report are separately 9262 (1852.4MHz), 9400 (1880MHz) and 9538 (1907.6MHz).

**Note 5:** The transmitter (Tx) frequency arrangement of the WCDMA 1700MHz band used by the EUT can be represented with the formula  $F(n)=1712.4+0.2*(n-1312)$ ,  $1312 \leq n \leq 1513$ ; the lowest, middle and highest channel numbers (ARFCNs) 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.

## 1.2 Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 2, Part 22 , Part 24and Part 27 for 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 (10-1-12 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 C63.7-2009, ANSI C63.4-2014 and CISPR Publication 22:2010; 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



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

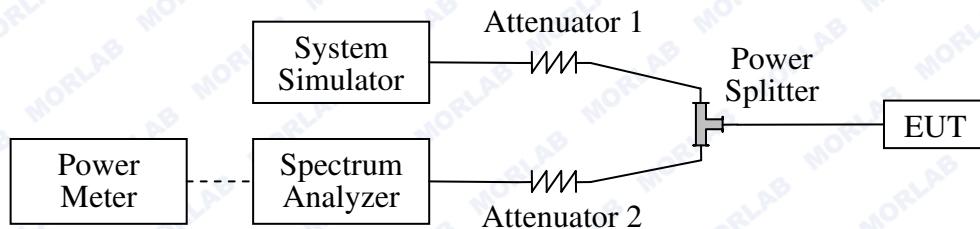
### 2.1 Conducted RF Output Power

#### 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

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.

Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
System Simulator	Agilent	E5515C	GB43130131	2016.03.02	2017.03.01
Spectrum Analyzer	Agilent	E7405A	US44210471	2016.03.02	2017.03.01
Power Meter	Agilent	E4418B	GB43318055	2016.03.02	2017.03.01
Power Sensor	Agilent	8482A	MY41091706	2016.03.02	2017.03.01
Power Splitter	Weinschel	1506A	NW521	2016.03.02	2017.03.01
Attenuator 1	Resnet	20dB	(n.a.)	2016.03.02	2017.03.01
Attenuator 2	Resnet	3dB	(n.a.)	2016.03.02	2017.03.01



### 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.

GSM Model Test Verdict:

Band	Channel	Frequency (MHz)	Measured Output Power		Limit dBm	Verdict
			dBm	Refer to Plot		
GSM 850MHz	128	824.2	33.07	Plot A1 to A3	35	PASS
	190	836.6	33.05			PASS
	251	848.8	33.01			PASS
GSM 1900MHz	512	1850.2	31.08	Plot B1 to B3	32	PASS
	661	1880.0	31.35			PASS
	810	1909.8	31.85			PASS
GPRS 850MHz	128	824.2	32.97	Plot C1 to C3 <sup>Note 1</sup>	35	PASS
	190	836.6	33.03			PASS
	251	848.8	32.92			PASS
GPRS 1900MHz	512	1850.2	31.06	Plot D1 to D3 <sup>Note 1</sup>	32	PASS
	661	1880.0	31.47			PASS
	810	1909.8	31.70			PASS
EGPRS 850MHz	128	824.2	31.15	Plot E1 to E3 <sup>Note 1</sup>	35	PASS
	190	836.6	31.18			PASS
	251	848.8	31.16			PASS
EGPRS 1900MHz	512	1850.2	29.28	Plot F1 to F3 <sup>Note 1</sup>	32	PASS
	661	1880.0	29.61			PASS
	810	1909.8	29.96			PASS

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



## WCDMA Model Test Verdict:

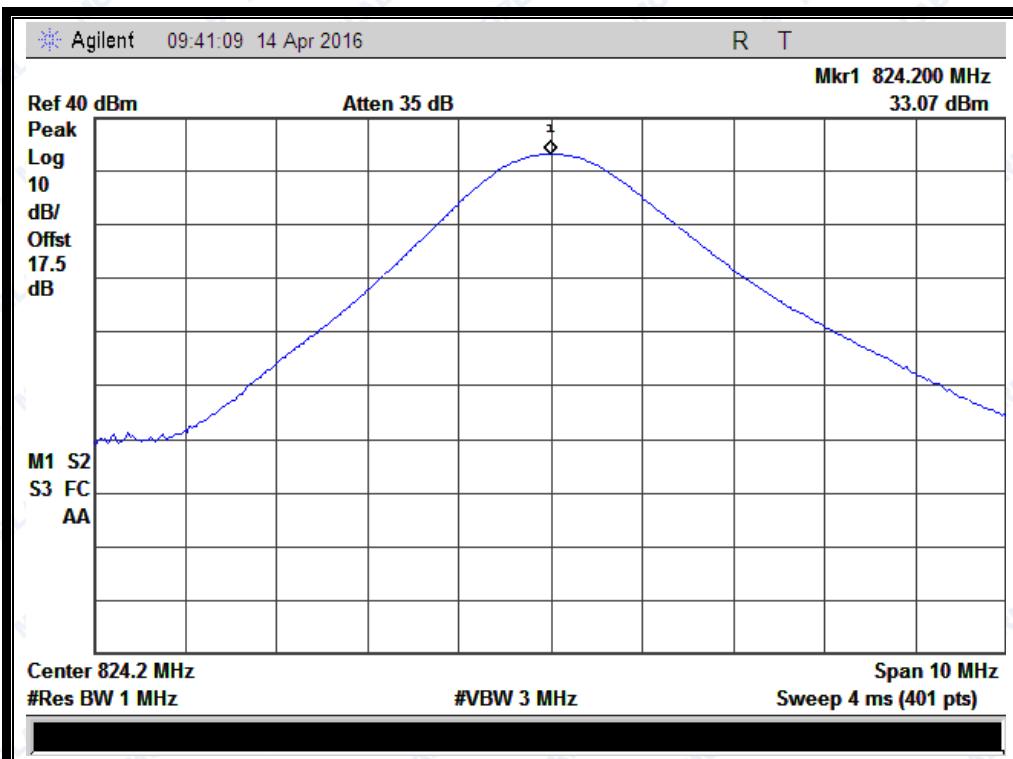
Item	band	WCDMA 850			WCDMA 1900		
	ARFCN	4132	4175	4233	9262	9400	9538
	subtest	dBm			dBm		
5.2(WCDMA)	non	23.87	23.61	23.88	23.20	23.47	23.54
HSDPA	1	23.65	23.48	23.73	22.81	23.49	23.23
	2	23.64	23.46	23.71	22.80	22.47	22.21
	3	23.13	22.97	23.22	22.30	22.98	22.72
	4	23.12	22.95	23.21	22.29	21.96	21.70
	1	23.64	23.49	23.75	22.99	23.56	23.29
HSUPA	2	21.63	21.48	21.76	21.00	21.57	21.27
	3	22.65	22.49	22.73	22.98	22.55	22.28
	4	21.64	21.48	21.76	22.97	21.58	21.29
	5	23.63	23.44	23.74	23.01	23.58	23.28
	HSPA+	1	23.73	23.61	23.80	23.03	23.70
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	22.96	23.47	23.23
HSDPA	1	22.82	23.28	23.16
	2	22.79	23.26	23.13
	3	22.31	22.77	22.64
	4	22.28	22.75	22.62
	1	22.68	23.48	23.19
HSUPA	2	20.67	21.47	21.18
	3	21.66	22.46	22.17
	4	20.68	21.46	21.19
	5	22.69	23.50	23.17
	HSPA+	1	22.86	23.27
Note: The Conducted RF Output Power test of WCDMA /HSDPA /HSUPA was tested by power meter.				

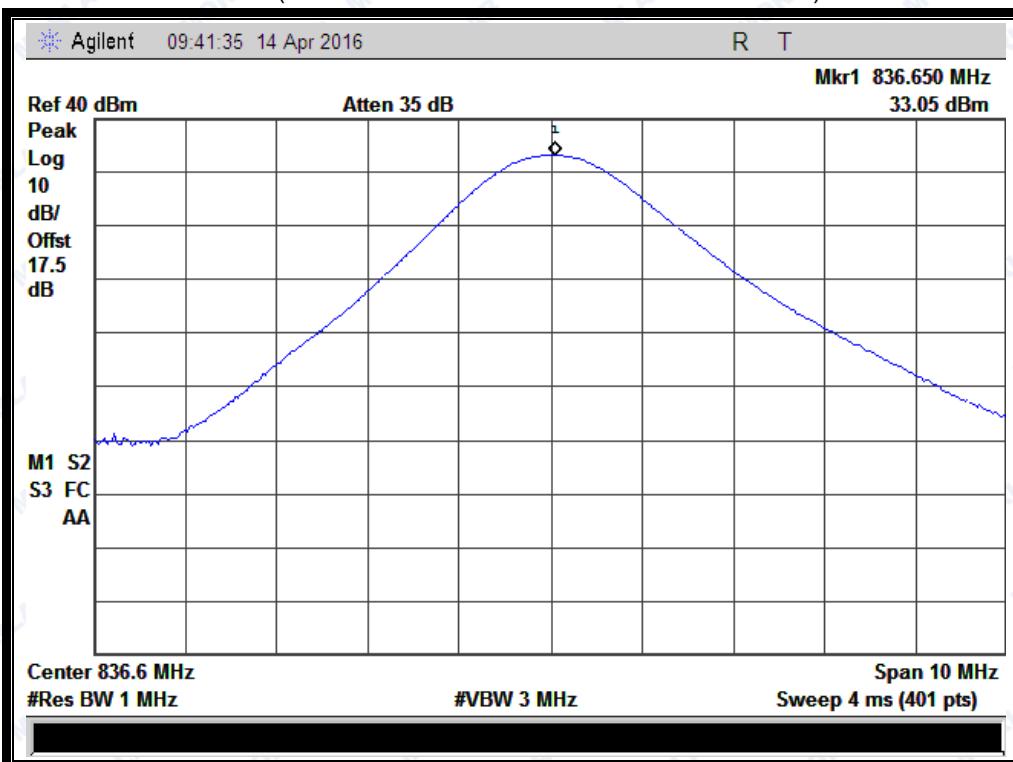


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GSM Model Test Plots:



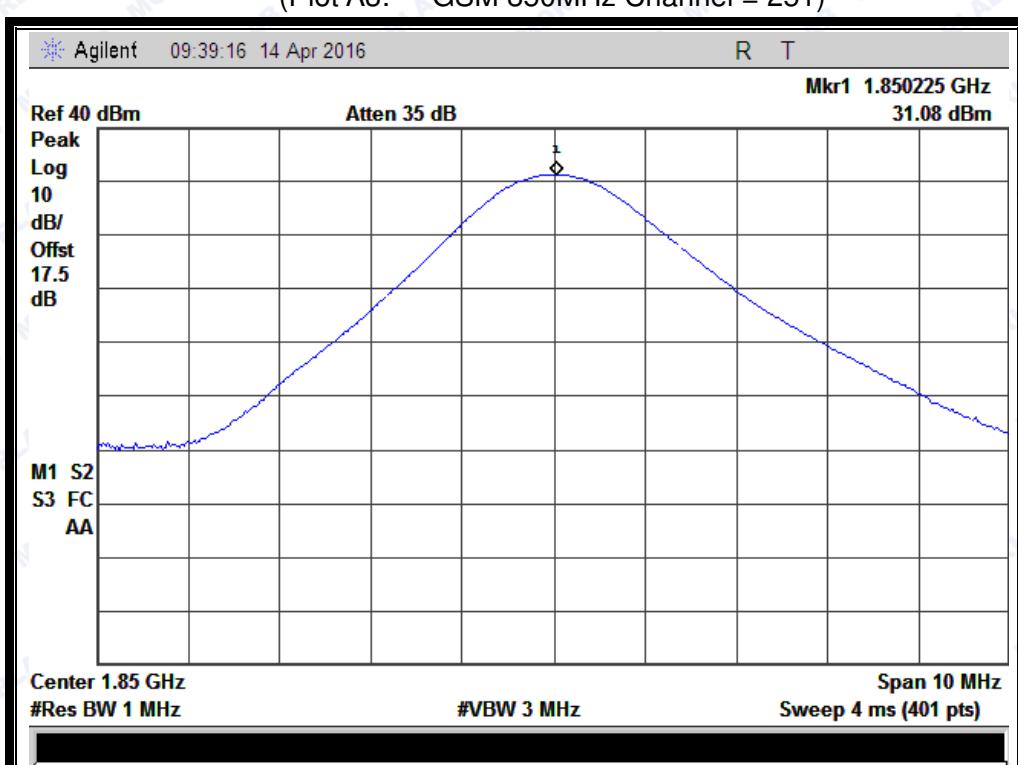
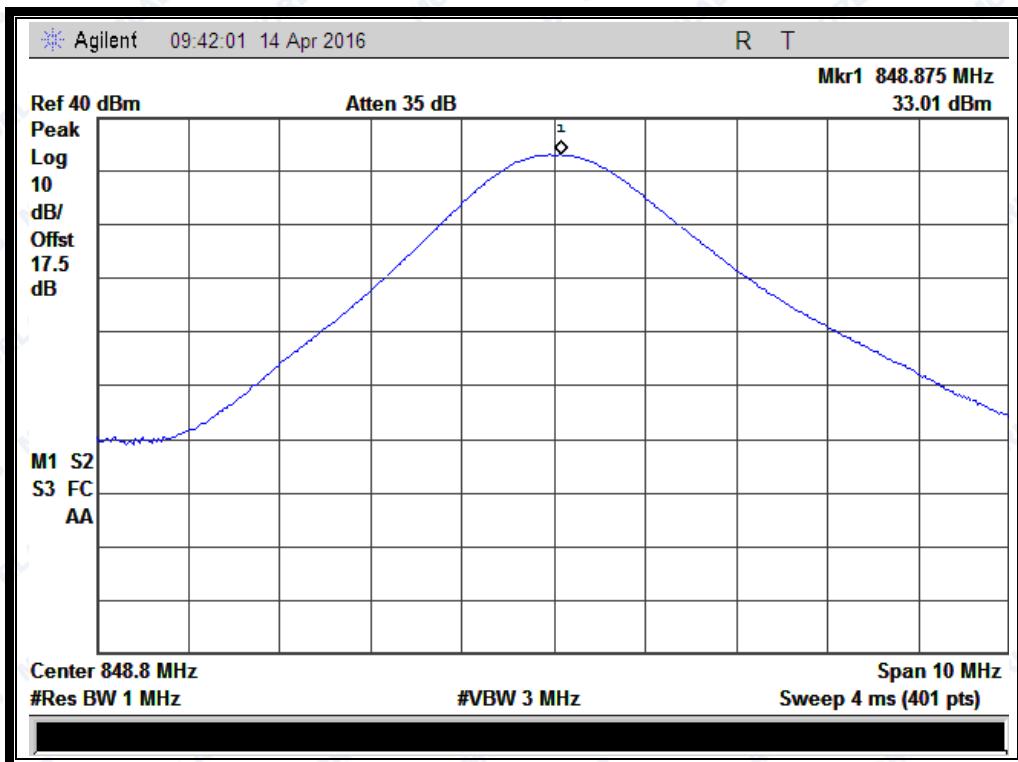
(Plot A1: GSM 850MHz Channel = 128)



(Plot A2: GSM 850MHz Channel = 190)

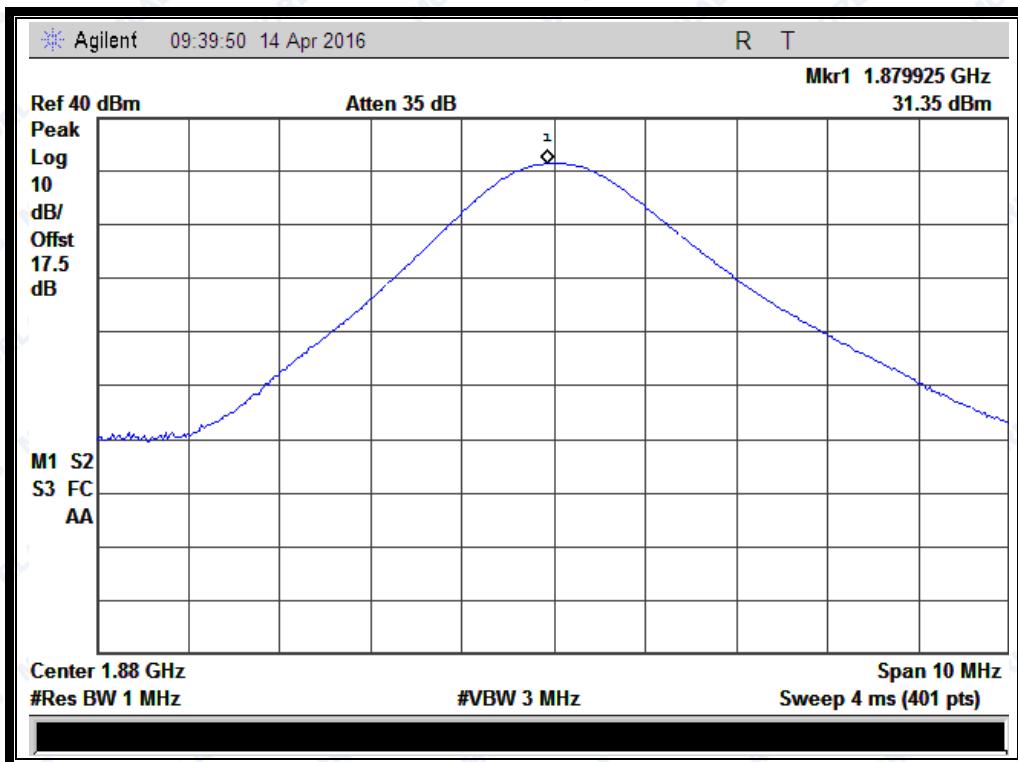


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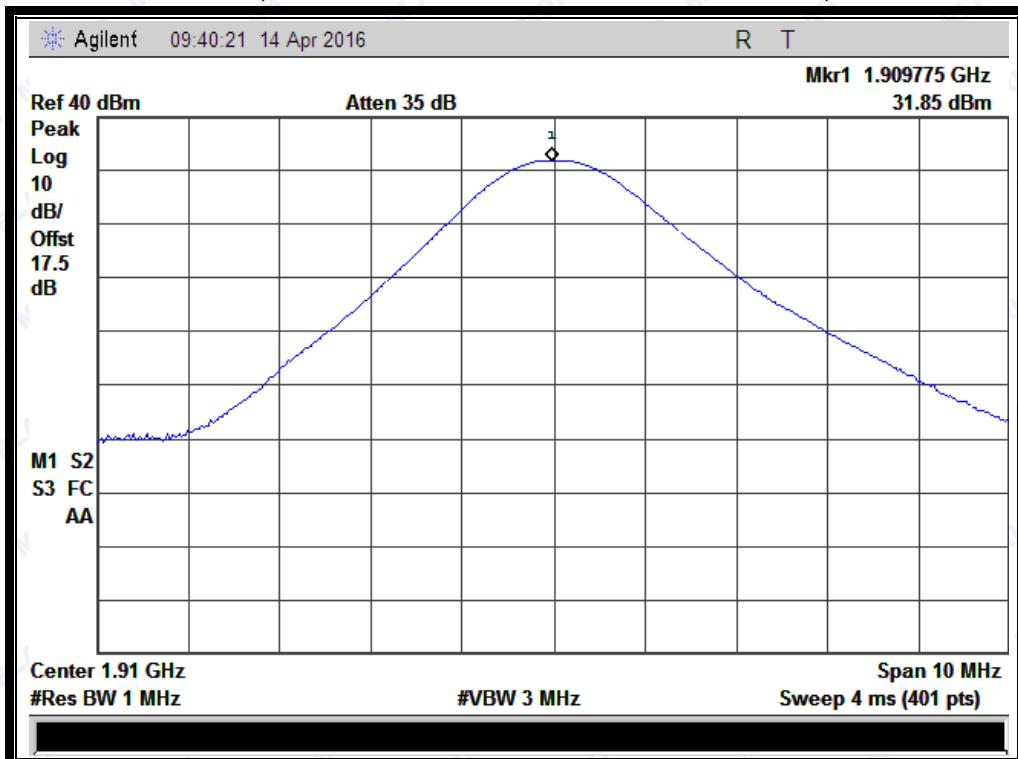




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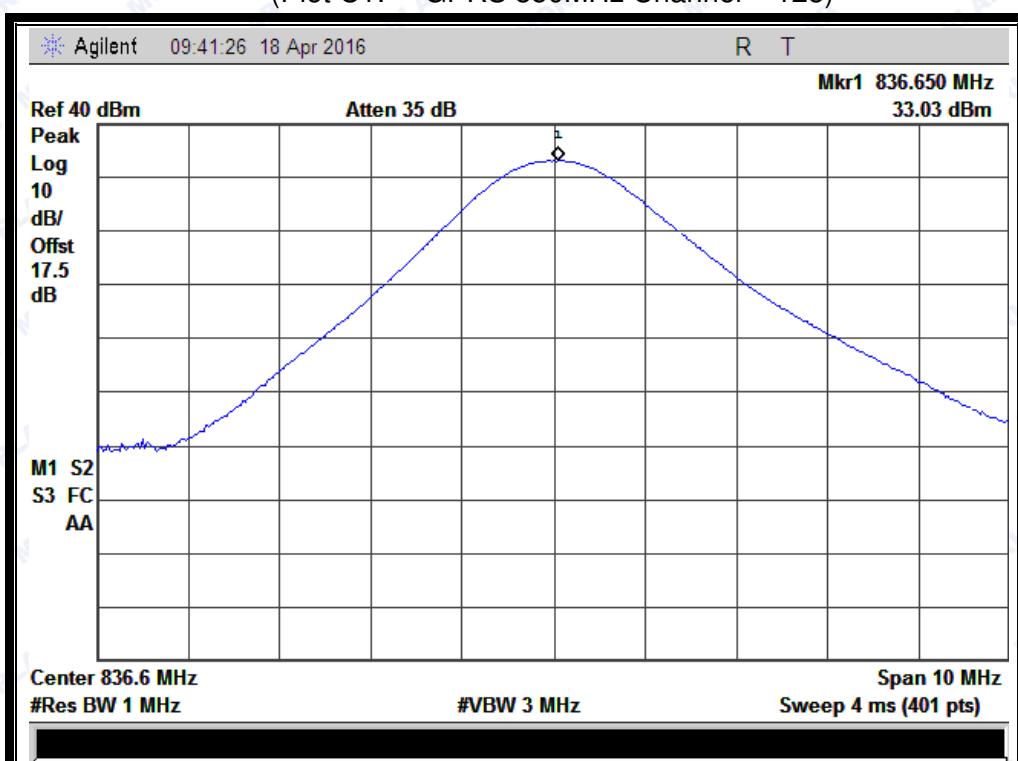
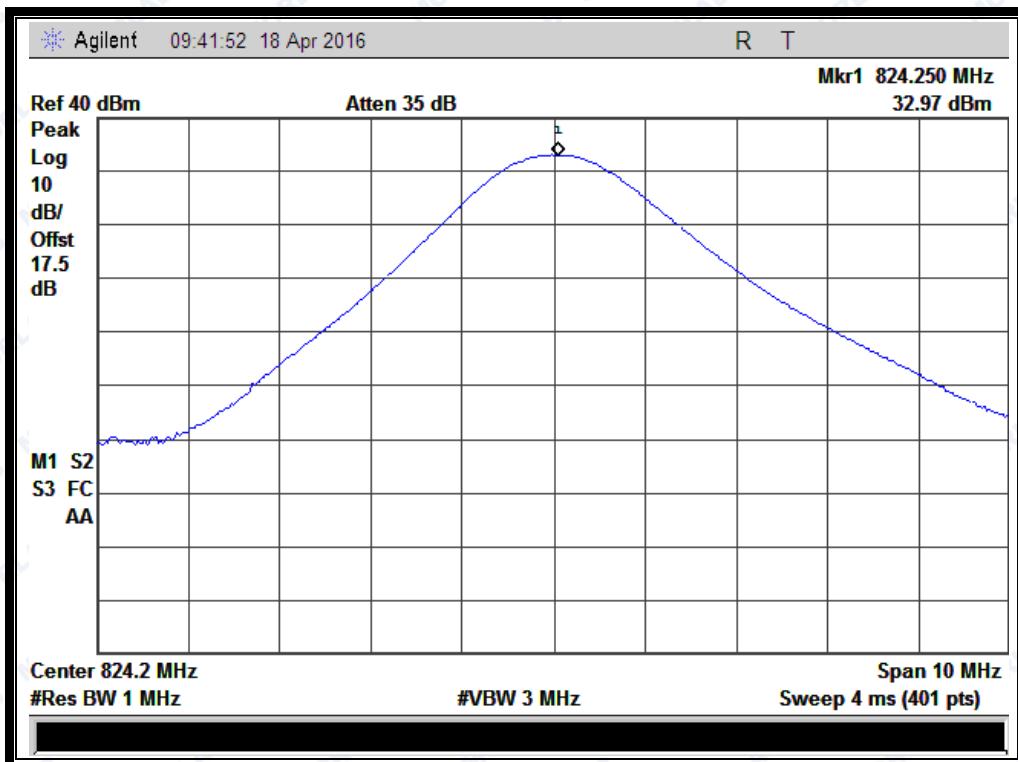
(Plot B2: GSM 1900MHz Channel = 661)



(Plot B3: GSM 1900Hz Channel = 810)

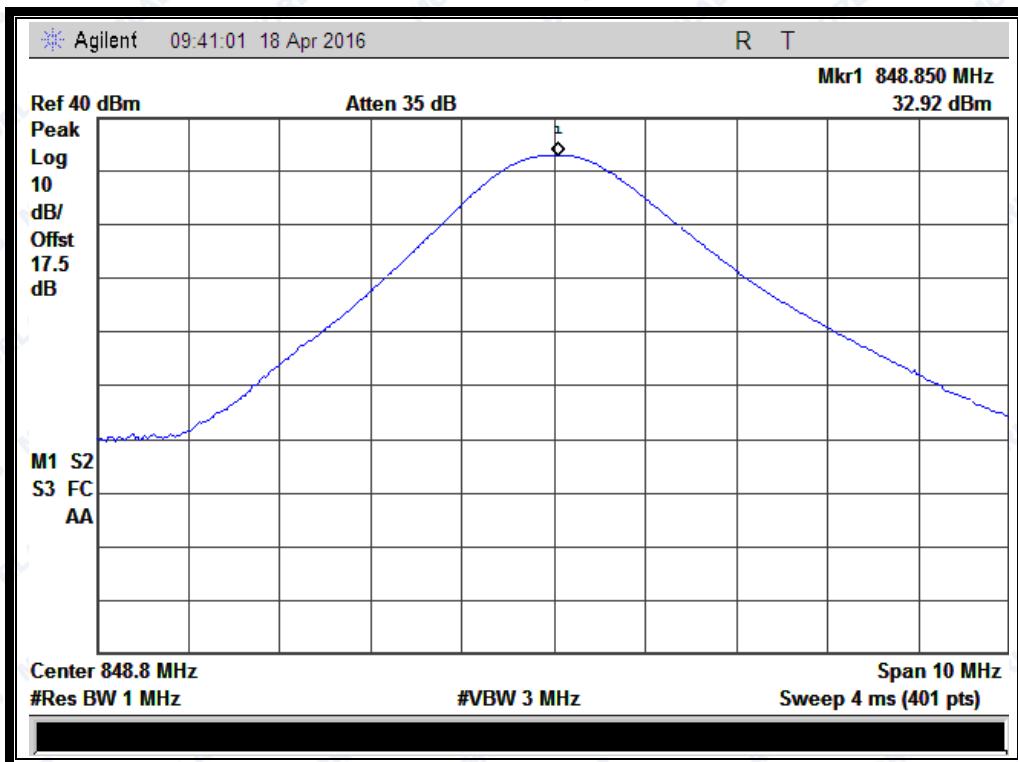


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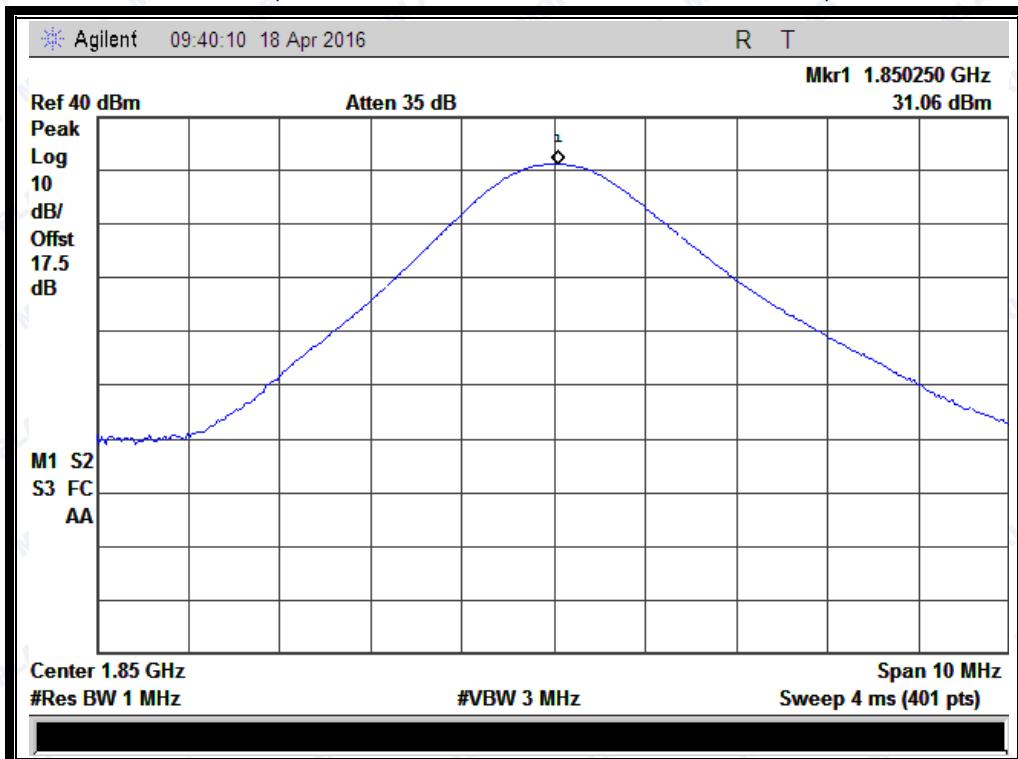




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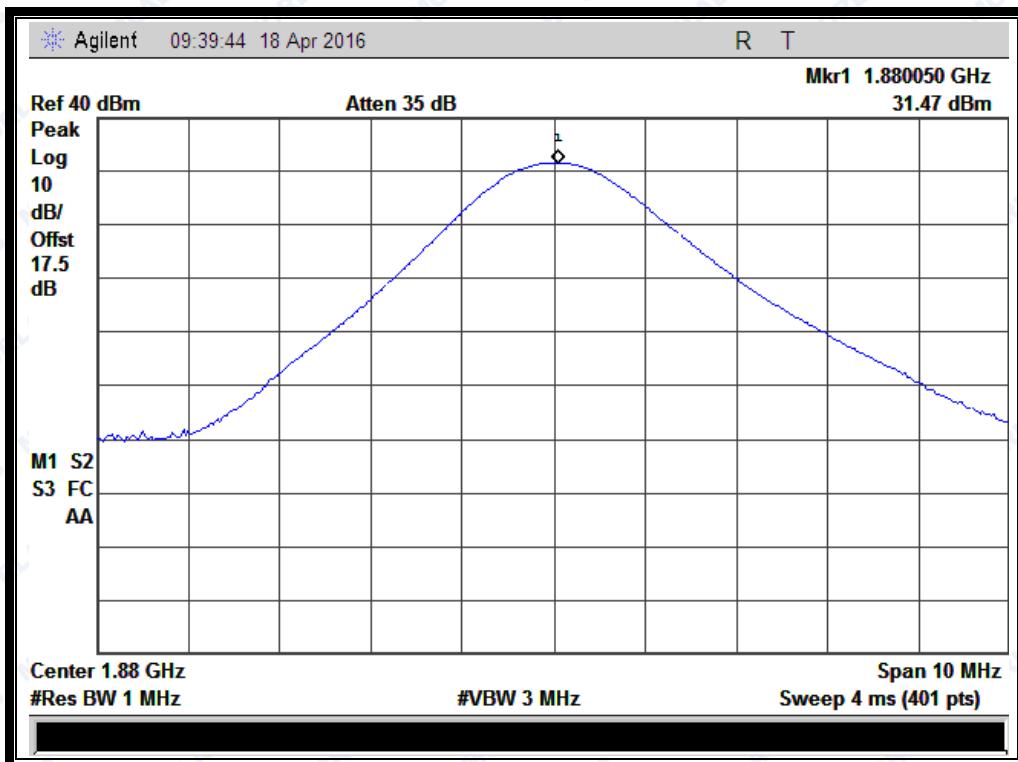
(Plot C3: GPRS 850MHz Channel = 251)



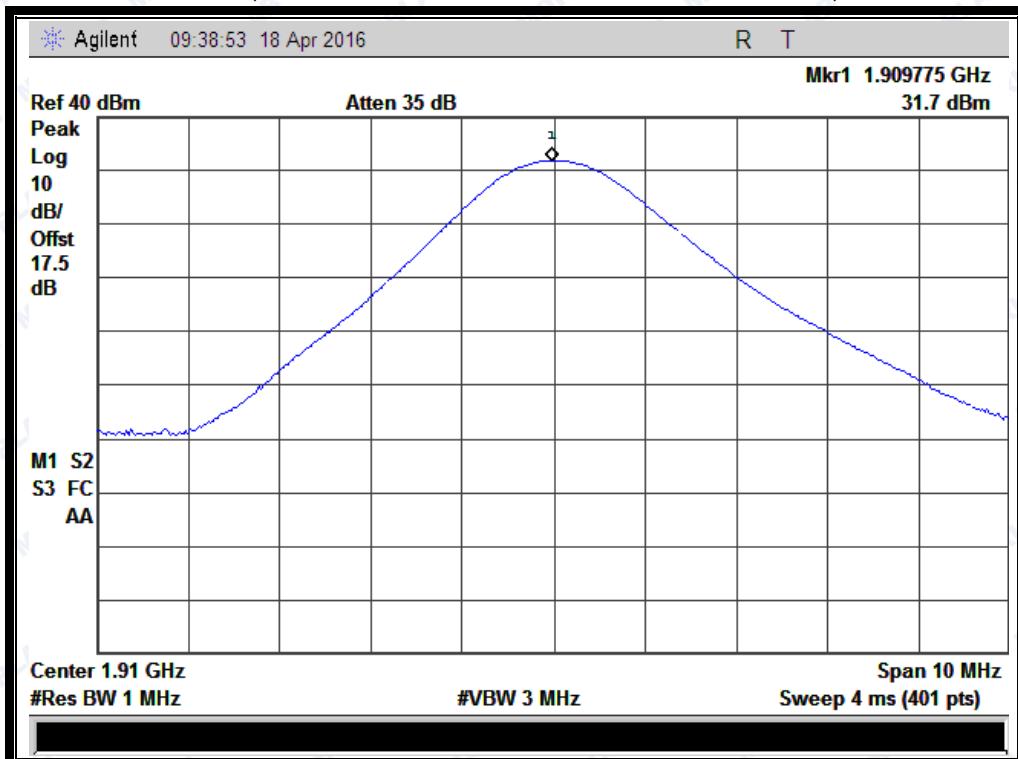
(Plot D1: GPRS 1900MHz Channel = 512)



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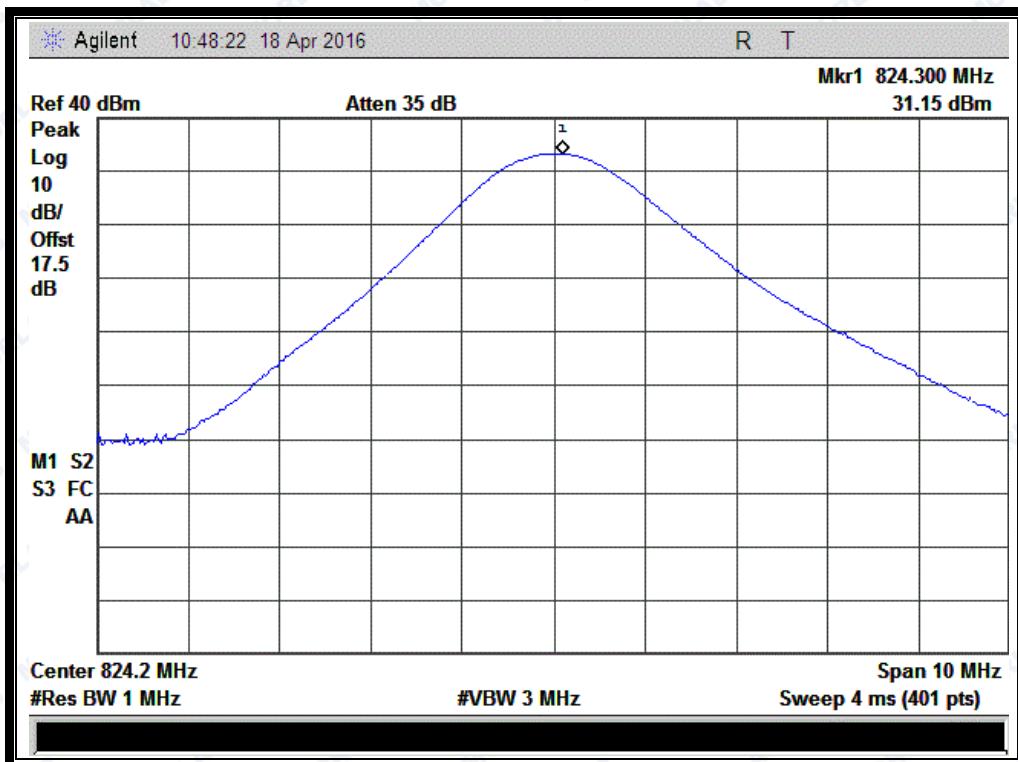
(Plot D2: GPRS 1900MHz Channel = 661)



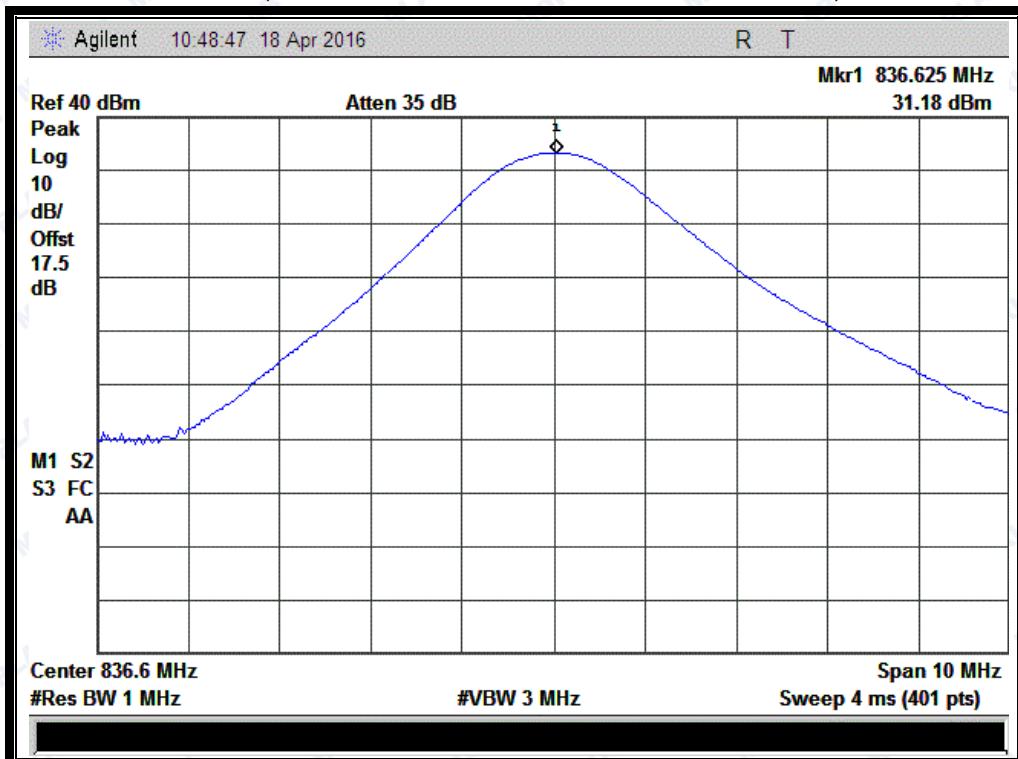
(Plot D3: GPRS 1900Hz Channel = 810)



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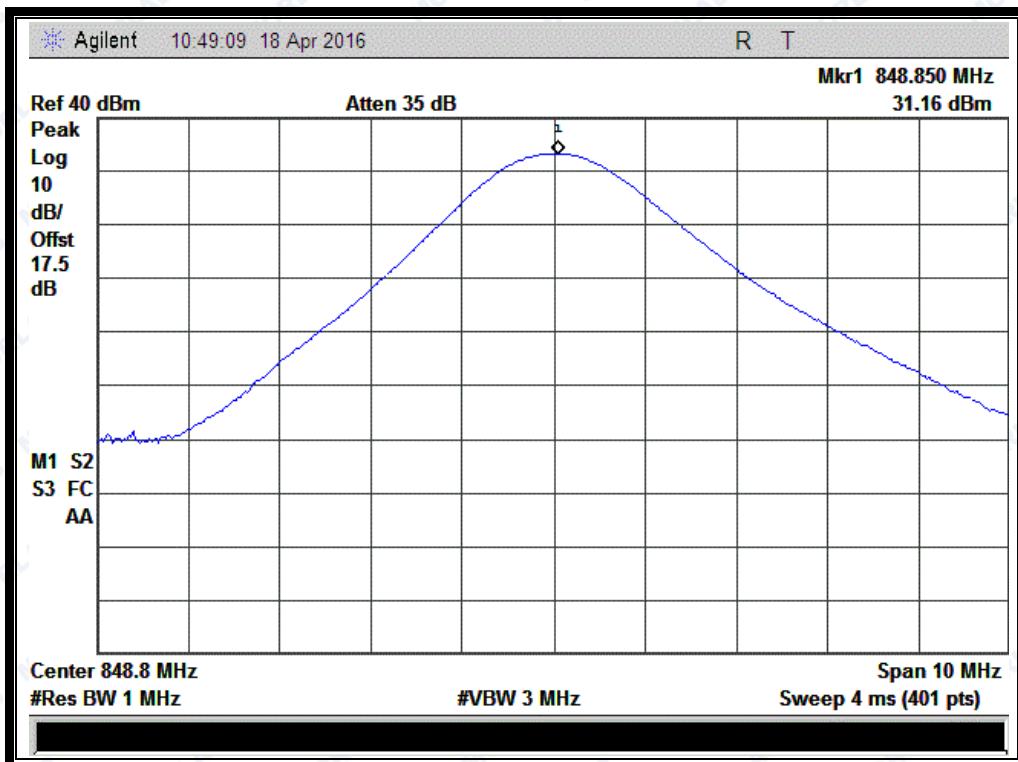
(Plot E1: EGPRS 850MHz Channel = 128)



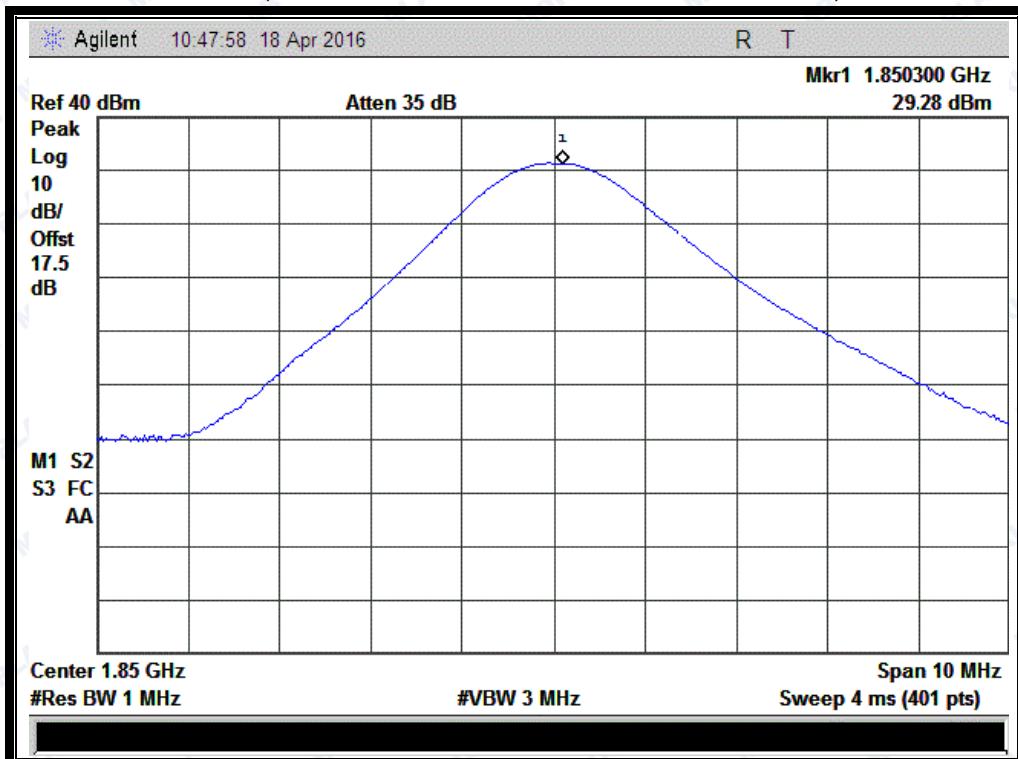
(Plot E2: EGPRS 850MHz Channel = 190)



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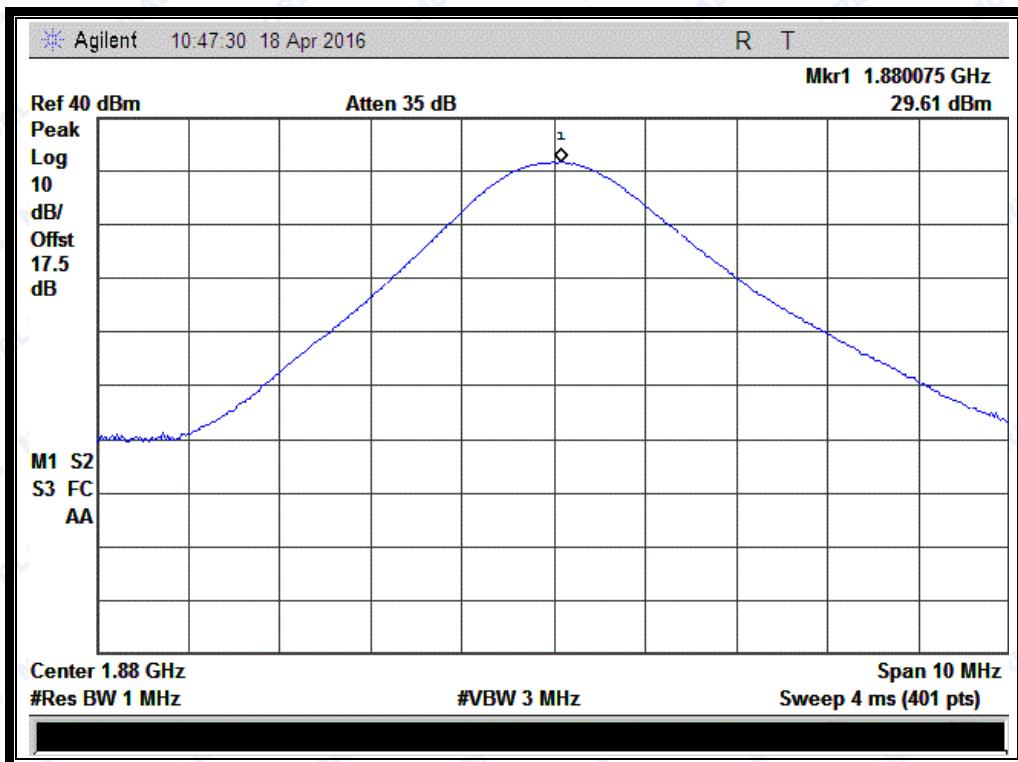
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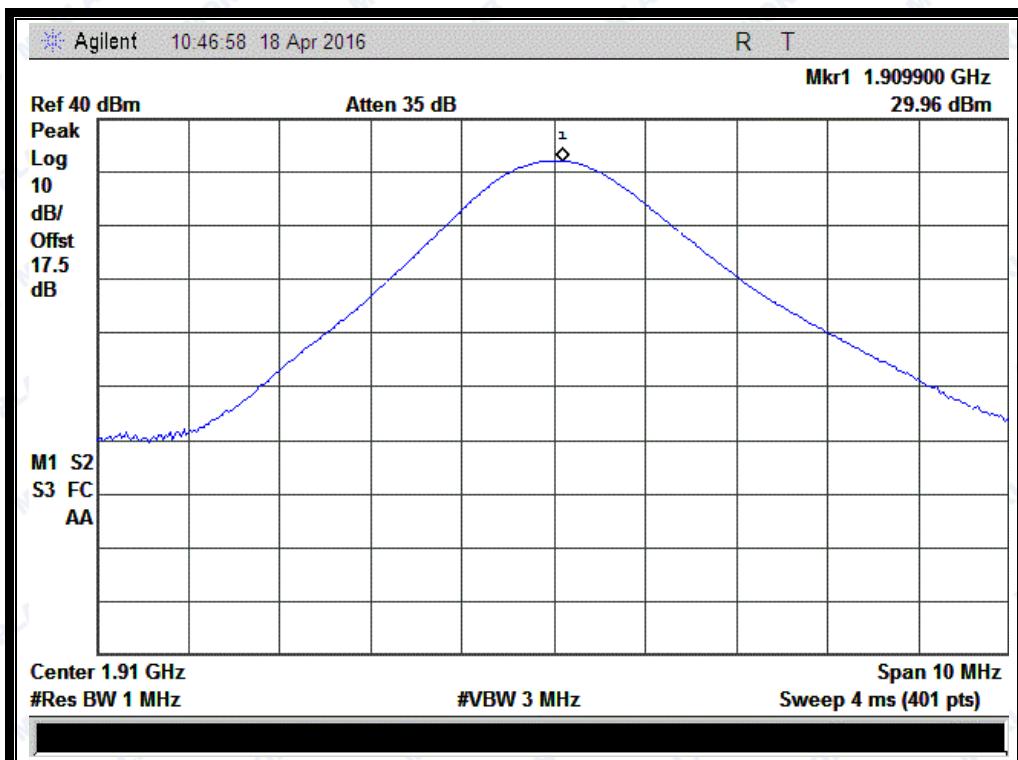
(Plot F1: EGPRS 1900MHz Channel = 512)



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(Plot F2: EGPRS 1900MHz Channel = 661)



(Plot F3: EGPRS 1900Hz Channel = 810)



## 2.2 Peak to Average Radio

### 2.2.1 Definition

According to FCC section 2.1049 and FCC 24.232(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:

- Set RBW=1MHz, VBW=3MHz, peak detector in spectrum analyzer.
- Set EUT in maximum output power, and triggered the burst signal.
- Measured respectively the peak level and mean level, and the deviation was recorded as Peak to Average radio.

B. For UMTS operating mode:

- Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
- The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1%.

Test Verdict:

Band	Channel	Frequency (MHz)	Peak to Average radio		Limit dB	Verdict
			dB	Refer to Plot		
GSM 1900MHz	512	1850.2	10.83	Plot A1 to A3	13	PASS
	661	1880.0	9.69			PASS
	810	1909.8	9.04			PASS
EGPRS 1900MHz	512	1850.2	9.63	Plot B1 to B3	13	PASS
	661	1880.0	9.56			PASS
	810	1909.8	9.39			PASS
WCDMA 1900MHz	9262	1852.4	2.91	Plot C1 to C3	13	PASS
	9400	1880.0	3.15			PASS
	9538	1907.6	2.99			PASS
WCDMA 1700MHz	1312	1712.4	2.64	Plot D1 to D3	13	PASS
	1412	1732.4	2.93			PASS
	1513	1752.6	2.76			PASS



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(Plot A1: GSM 1900 MHz Channel = 512)



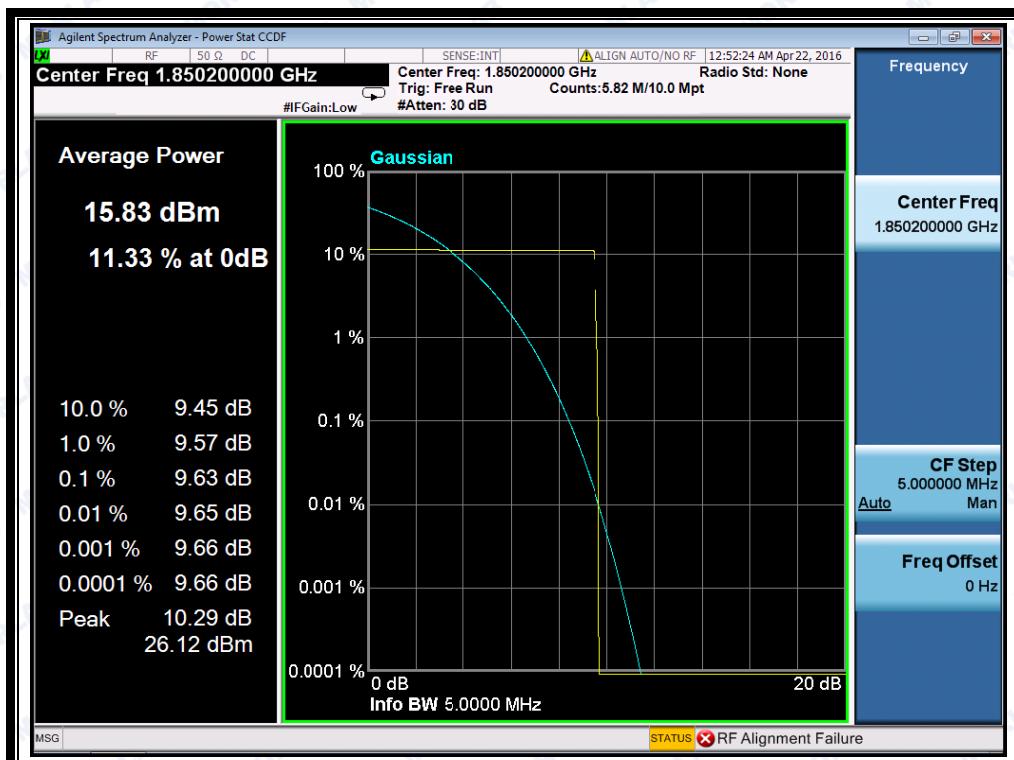
(Plot A2: GSM 1900 MHz Channel = 661)



REPORT No.: SZ16030142W04



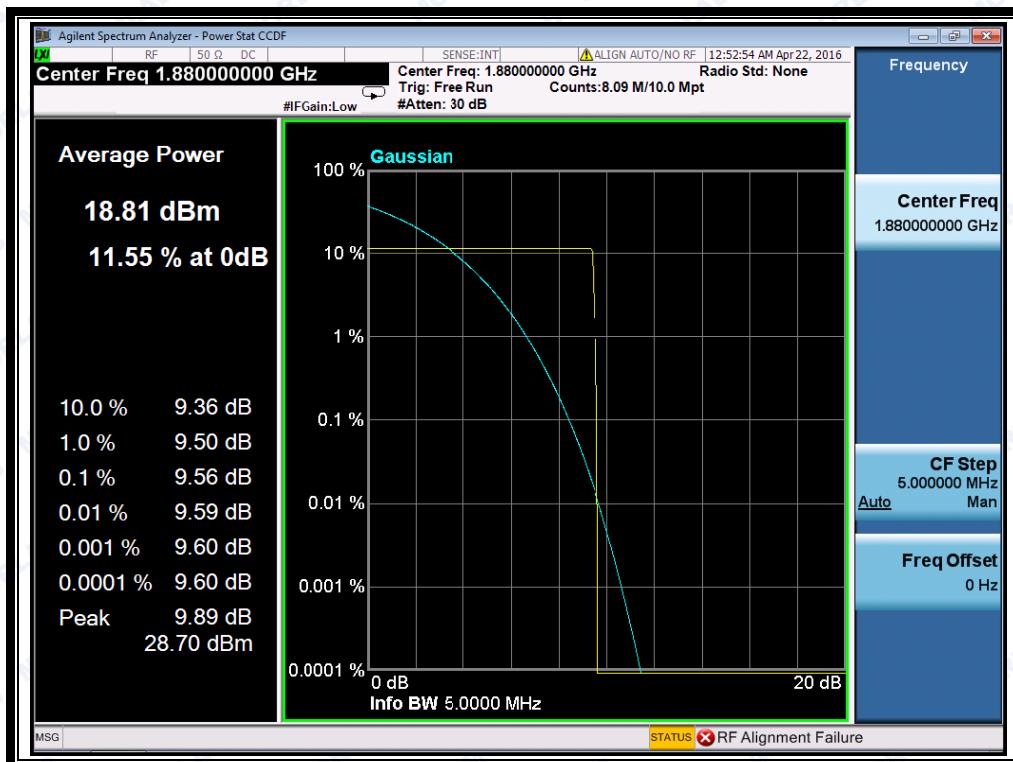
(Plot A3: GSM 1900MHz Channel = 810)



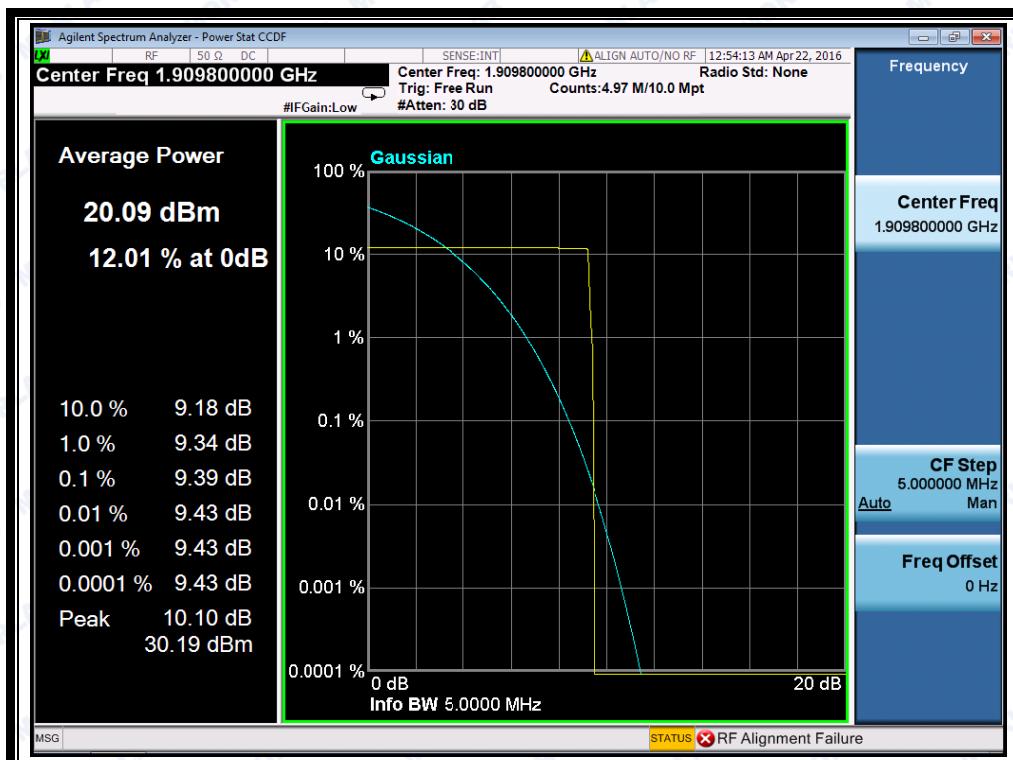
(Plot B1: EGPRS 1900 MHz Channel = 512)



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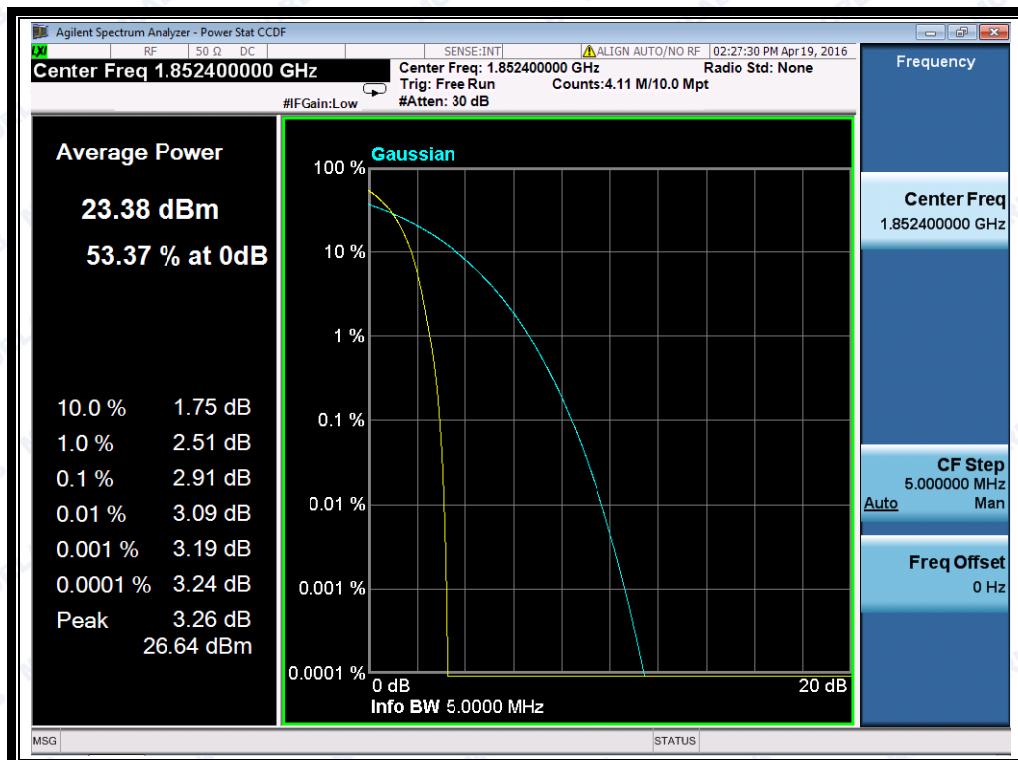
(Plot B2: EGPRS 1900 MHz Channel = 661)



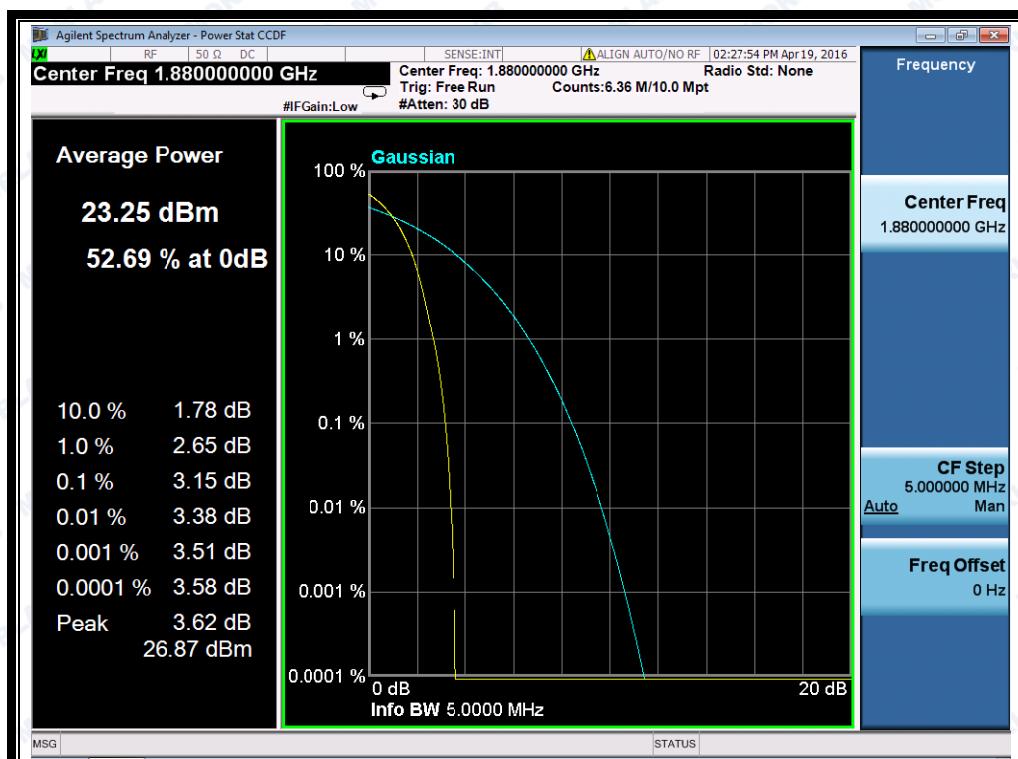
(Plot B3: EGPRS 1900MHz Channel = 810)



REPORT No.: SZ16030142W04



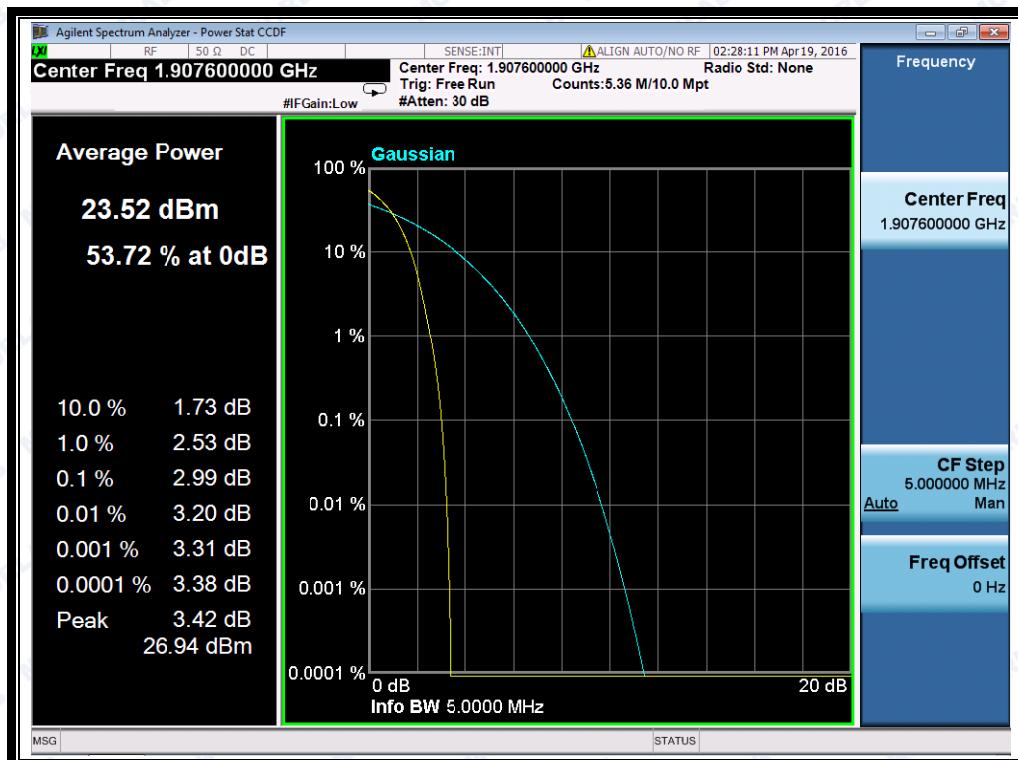
(Plot C1: WCDMA 1900MHz Channel = 9262)



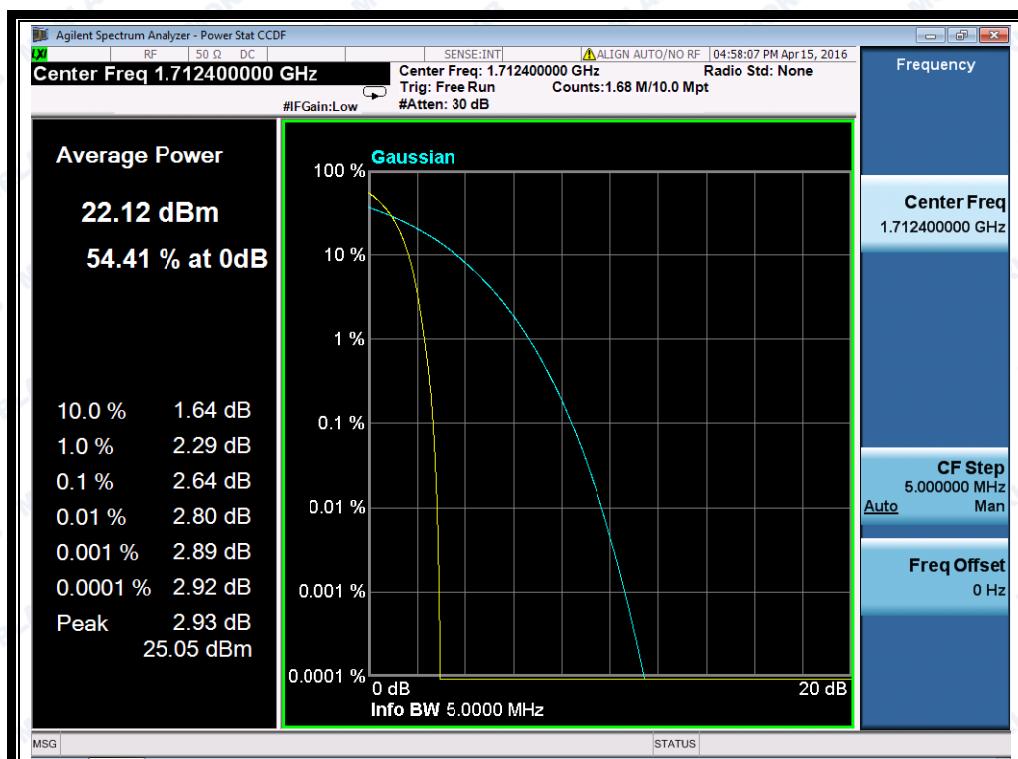
(Plot C2: WCDMA 1900MHz Channel = 9400)



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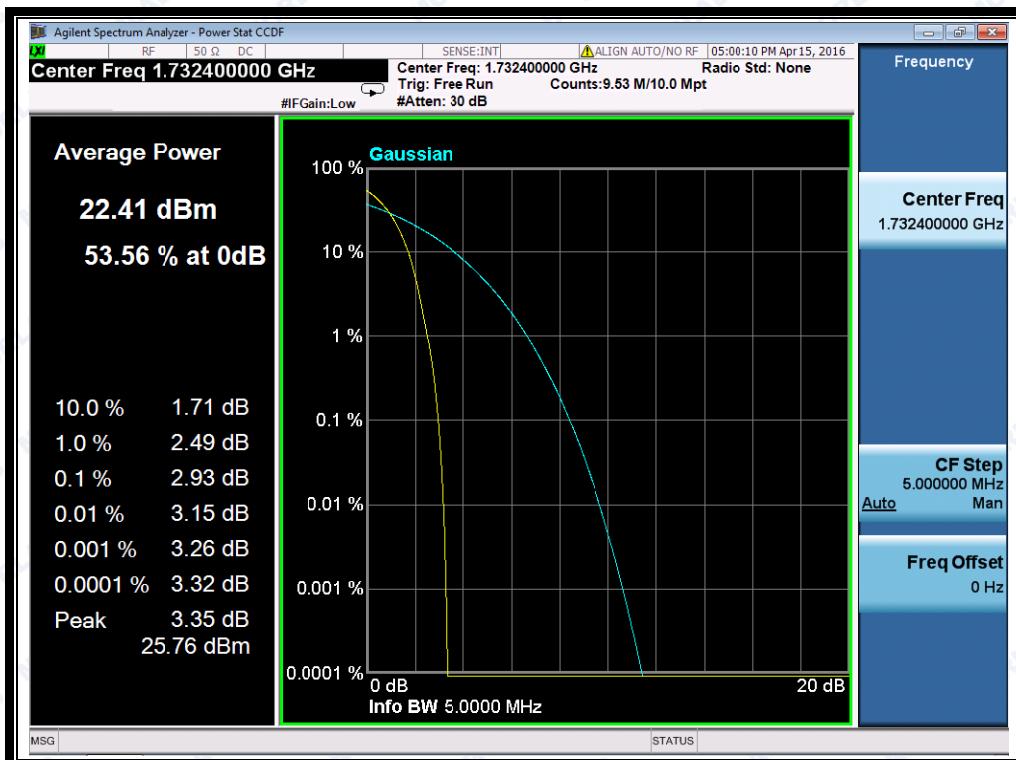
(Plot C3: WCDMA 1900MHz Channel = 9538)



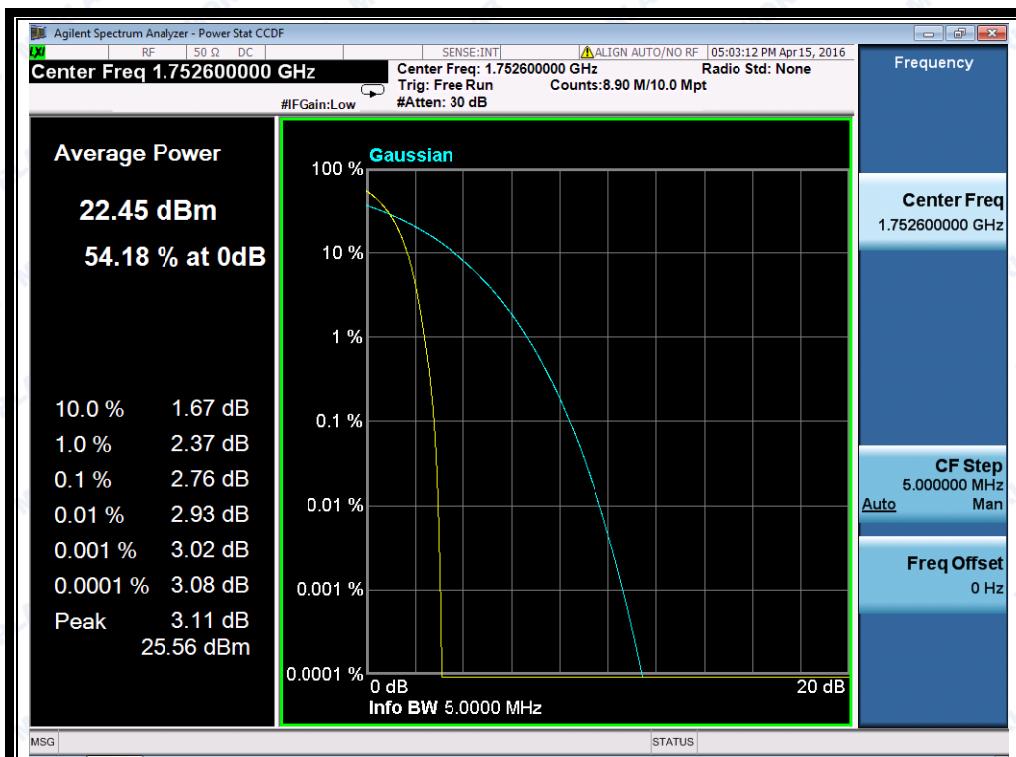
(Plot D1: WCDMA 1700MHz Channel = 1312)



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(Plot D2: WCDMA 1700MHz Channel = 1412)



(Plot D3: WCDMA 1700MHz Channel = 1513)



## 2.3 99% Occupied Bandwidth

### 2.3.1 Definition

According to FCC section 2.1049 and FCC § 22.917 &24.238, 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.

Test Verdict:

Band	Channel	Frequency (MHz)	26dB bandwidth	99% Occupied Bandwidth	Refer to Plot
GSM 850MHz	128	824.2	318.837 KHz	244.7105 KHz	Plot A1 to A3
	190	836.6	310.546 KHz	240.7658 KHz	
	251	848.8	317.762 KHz	247.6213 KHz	
GSM 1900MHz	512	1850.2	312.753 KHz	246.3386 KHz	Plot B1 to B3
	661	1880.0	317.440 KHz	248.9083 KHz	
	810	1909.8	317.444 KHz	250.2614 KHz	
GPRS 850MHz	128	824.2	311.365 KHz	247.5354 KHz	Plot C1 to C3
	190	836.6	310.139 KHz	246.5233 KHz	
	251	848.8	316.819 KHz	245.3990 KHz	
GPRS 1900MHz	512	1850.2	320.480 KHz	246.4598 KHz	Plot D1 to D3
	661	1880.0	318.710 KHz	259.0792 KHz	
	810	1909.8	313.964 KHz	245.1832 KHz	
EGPRS 850MHz	128	824.2	322.242 KHz	245.0868 KHz	Plot E1 to E3
	190	836.6	317.962 KHz	249.6143 KHz	
	251	848.8	321.649 KHz	247.2788 KHz	
EGPRS 1900MHz	512	1850.2	321.059 KHz	245.8384 KHz	Plot F1 to F3
	661	1880.0	322.760 KHz	247.1092 KHz	
	810	1909.8	322.891 KHz	247.4677 KHz	
WCDMA 850MHz	4132	826.4	4.697 MHz	4.1371 MHz	Plot G1 to G3
	4175	835.0	4.711 MHz	4.1396 MHz	
	4233	846.6	4.701 MHz	4.1306 MHz	



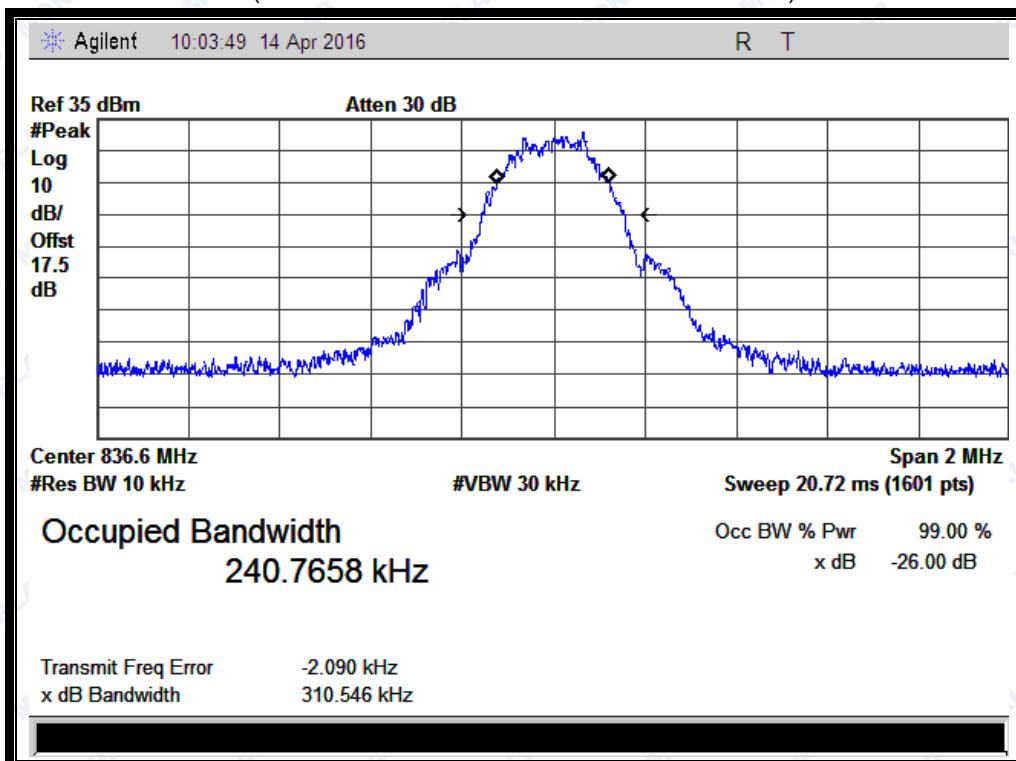
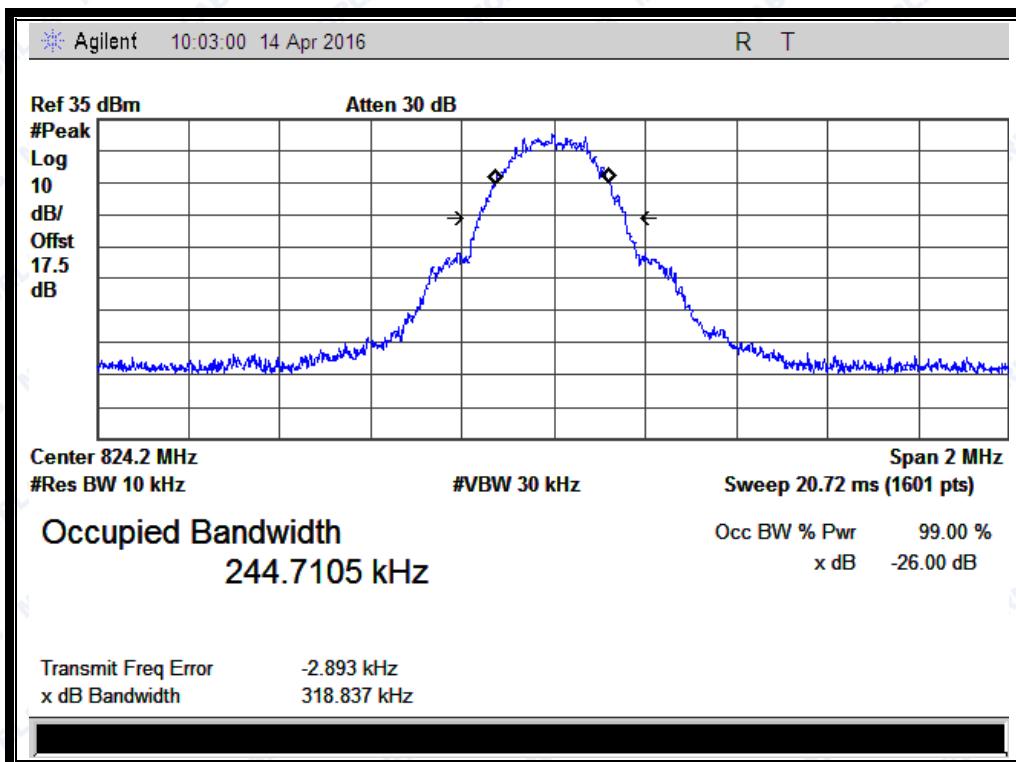
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Band	Channel	Frequency (MHz)	26dB bandwidth	99% Occupied Bandwidth	Refer to Plot
WCDMA 1700MHz	1312	1712.4	4.731 MHz	4.1603 MHz	Plot H1 to H3
	1412	1732.4	4.707 MHz	4.1519 MHz	
	1513	1752.6	4.729 MHz	4.1660 MHz	
WCDMA 1900MHz	9262	1852.4	4.694 MHz	4.1742 MHz	Plot I1 to I3
	9400	1880.0	4.687 MHz	4.1529 MHz	
	9538	1907.6	4.708 MHz	4.1471 MHz	
HSDPA 850MHz	4132	826.4	4.702 MHz	4.1372 MHz	Plot J1 to J3
	4175	835.0	4.683 MHz	4.1267 MHz	
	4233	846.6	4.684 MHz	4.1496 MHz	
HSDPA 1700MHz	1312	1712.4	4.702 MHz	4.1507 MHz	Plot K1 to K3
	1412	1732.4	4.715 MHz	4.1751 MHz	
	1513	1752.6	4.722 MHz	4.1524 MHz	
HSDPA 1900MHz	9262	1852.4	4.681 MHz	4.1652 MHz	Plot L1 to L3
	9400	1880.0	4.692 MHz	4.1539 MHz	
	9538	1907.6	4.700 MHz	4.1599 MHz	
HSUPA 850MHz	4132	826.4	4.673 MHz	4.1402 MHz	Plot M1 to M3
	4175	835.0	4.722 MHz	4.1360 MHz	
	4233	846.6	4.690 MHz	4.1239 MHz	
HSUPA 1700MHz	1312	1712.4	4.730 MHz	4.1583 MHz	Plot N1 to N3
	1412	1732.4	4.711 MHz	4.1542 MHz	
	1513	1752.6	4.732 MHz	4.1590 MHz	
HSUPA 1900MHz	9262	1852.4	4.712 MHz	4.1539 MHz	Plot O1 to O3
	9400	1880.0	4.681 MHz	4.1488 MHz	
	9538	1907.6	4.695 MHz	4.1463 MHz	
HSPA+ 850MHz	4132	826.4	4.701 MHz	4.1376 MHz	Plot P1 to P3
	4175	835.0	4.703 MHz	4.1414 MHz	
	4233	846.6	4.707 MHz	4.1475 MHz	
HSPA+ 1700MHz	1312	1712.4	4.683 MHz	4.1783 MHz	Plot Q1 to Q3
	1412	1732.4	4.690 MHz	4.1788 MHz	
	1513	1752.6	4.697 MHz	4.1810 MHz	
HSPA+ 1900MHz	9262	1852.4	4.709 MHz	4.1617 MHz	Plot R1 to R3
	9400	1880.0	4.688 MHz	4.1730 MHz	
	9538	1907.6	4.711 MHz	4.1531 MHz	



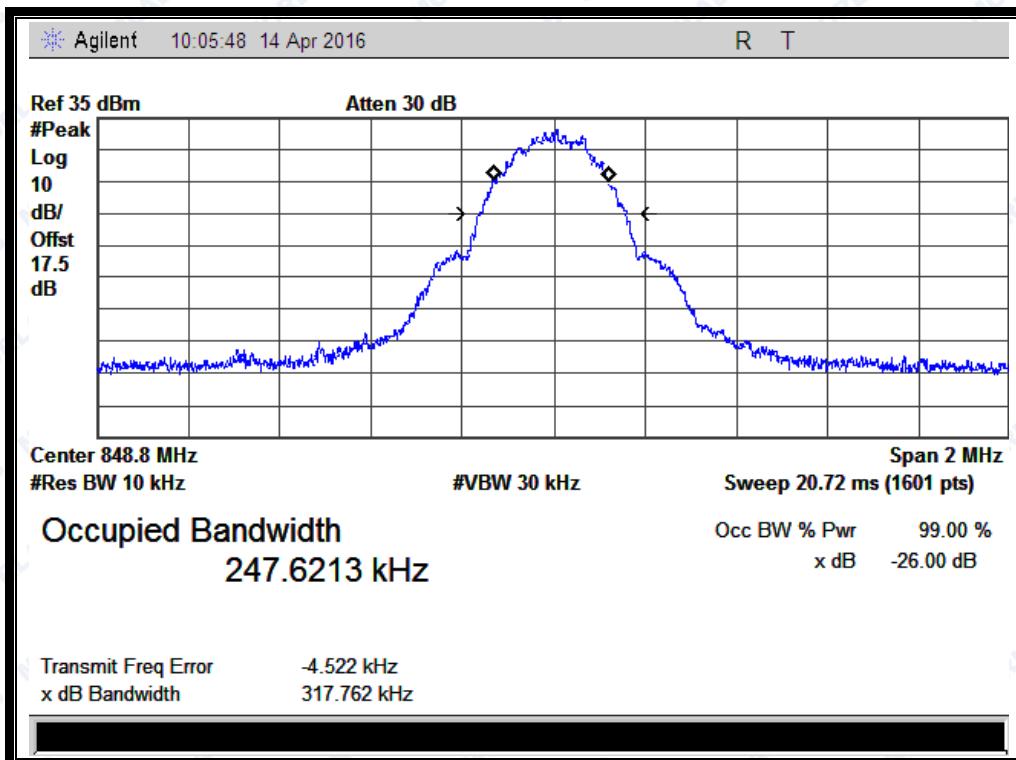
REPORT No.: SZ16030142W04

Test Plots:

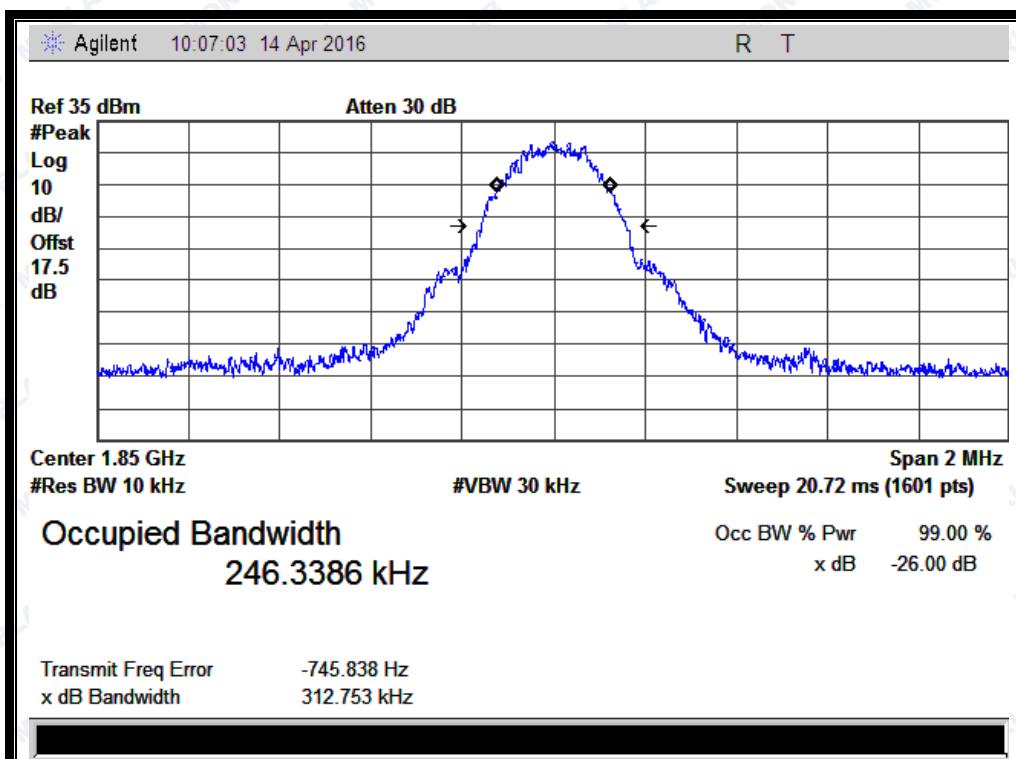




REPORT No.: SZ16030142W04



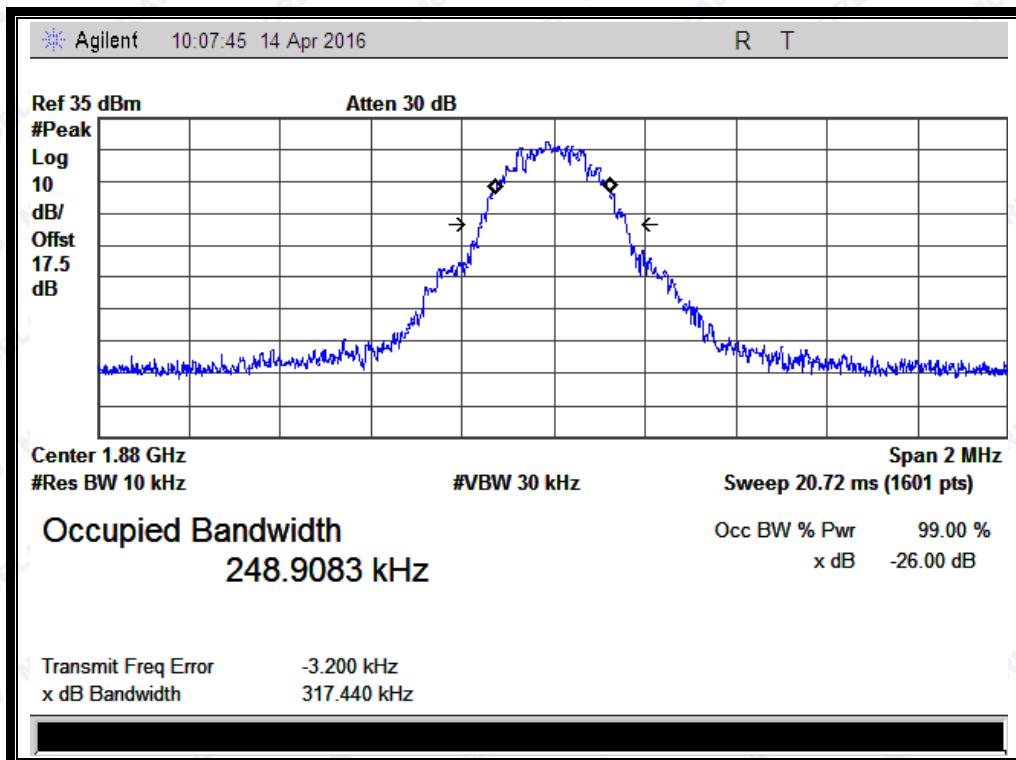
(Plot A3: GSM 850MHz Channel = 251)



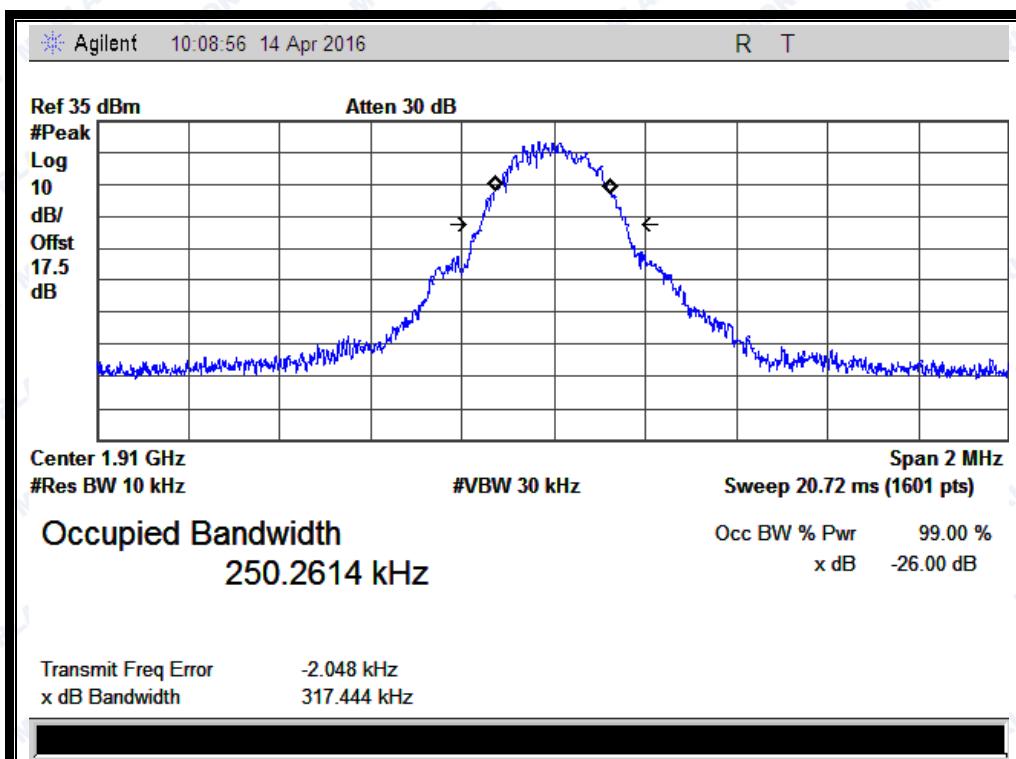
(Plot B1: GSM1900MHz Channel = 512)



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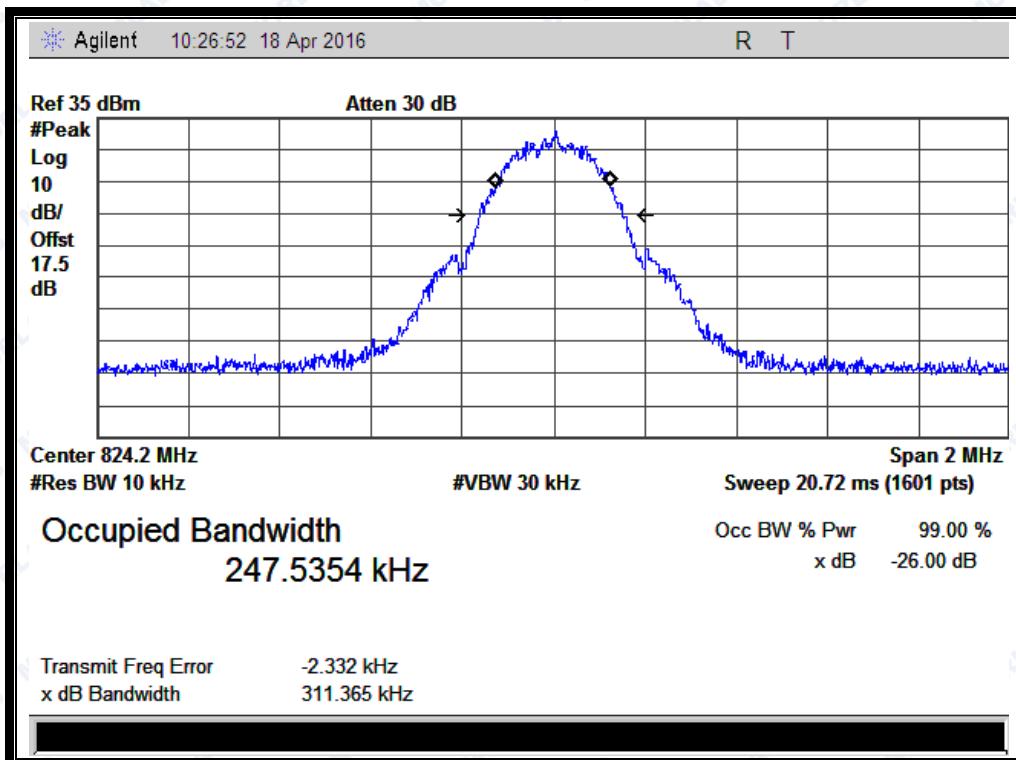
(Plot B2: GSM1900MHz Channel = 661)



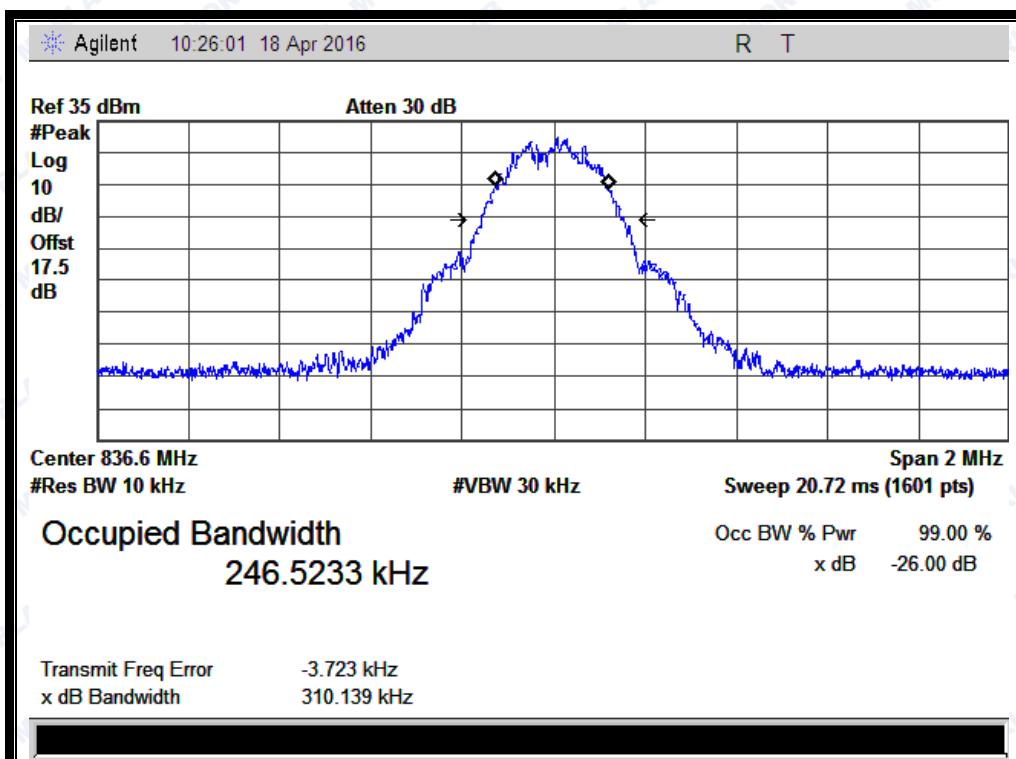
(Plot B3: GSM 1900MHz Channel = 810)



REPORT No.: SZ16030142W04



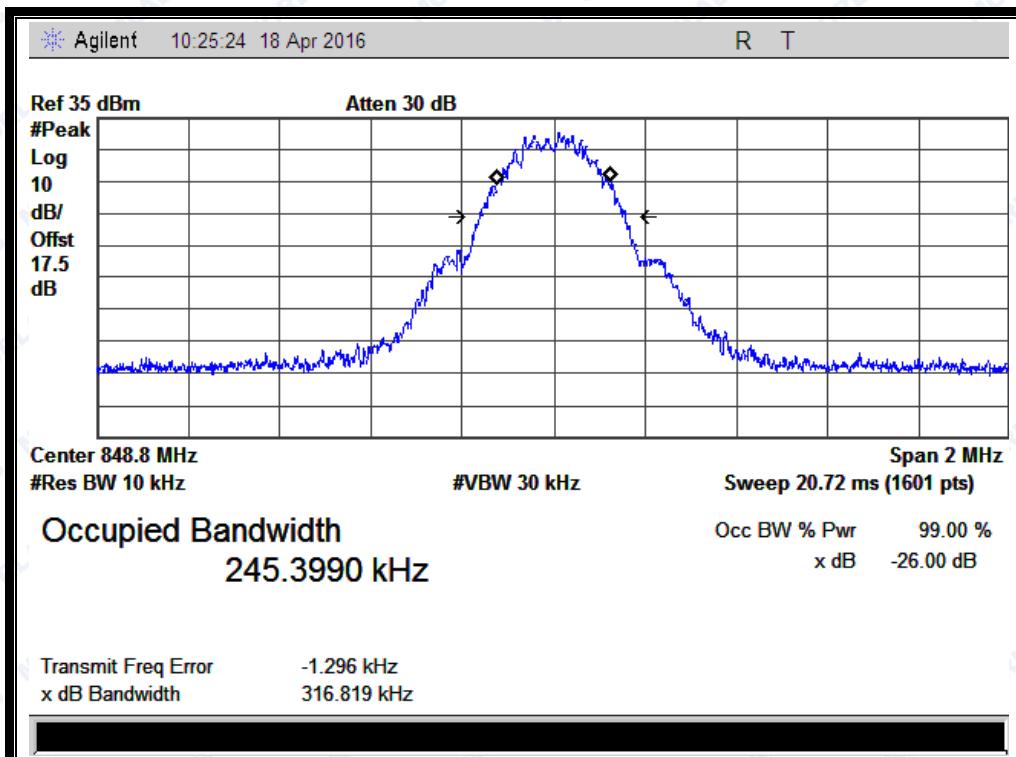
(Plot C1: GPRS 850MHz Channel = 128)



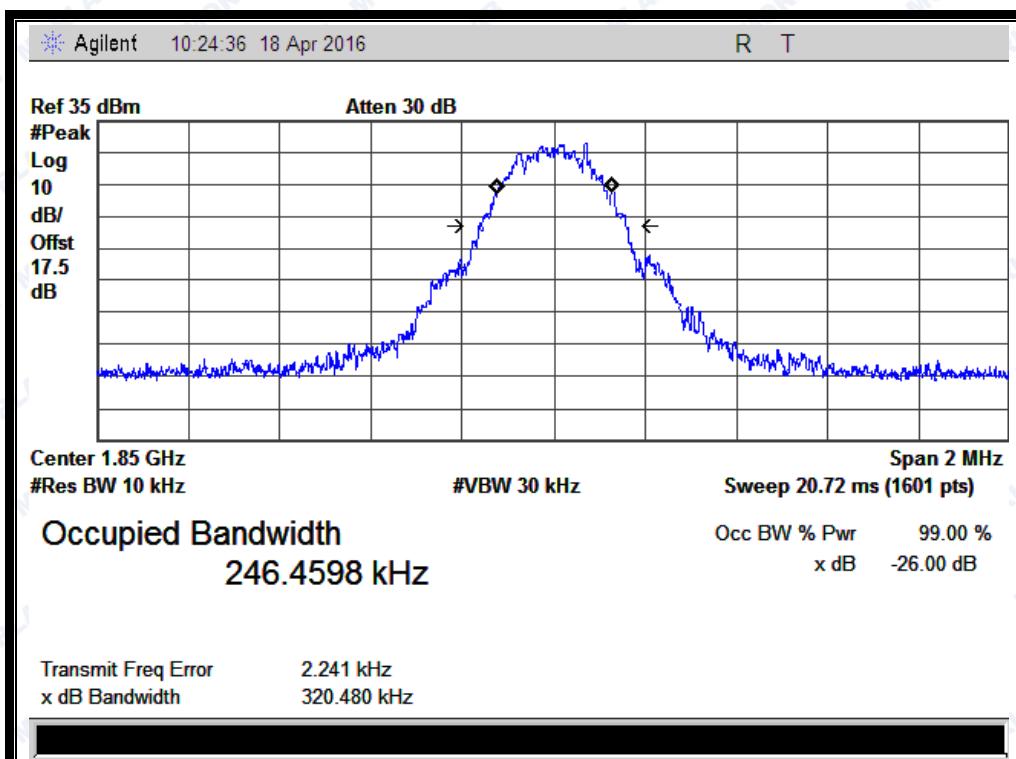
(Plot C2: GPRS 850MHz Channel = 190)



REPORT No.: SZ16030142W04



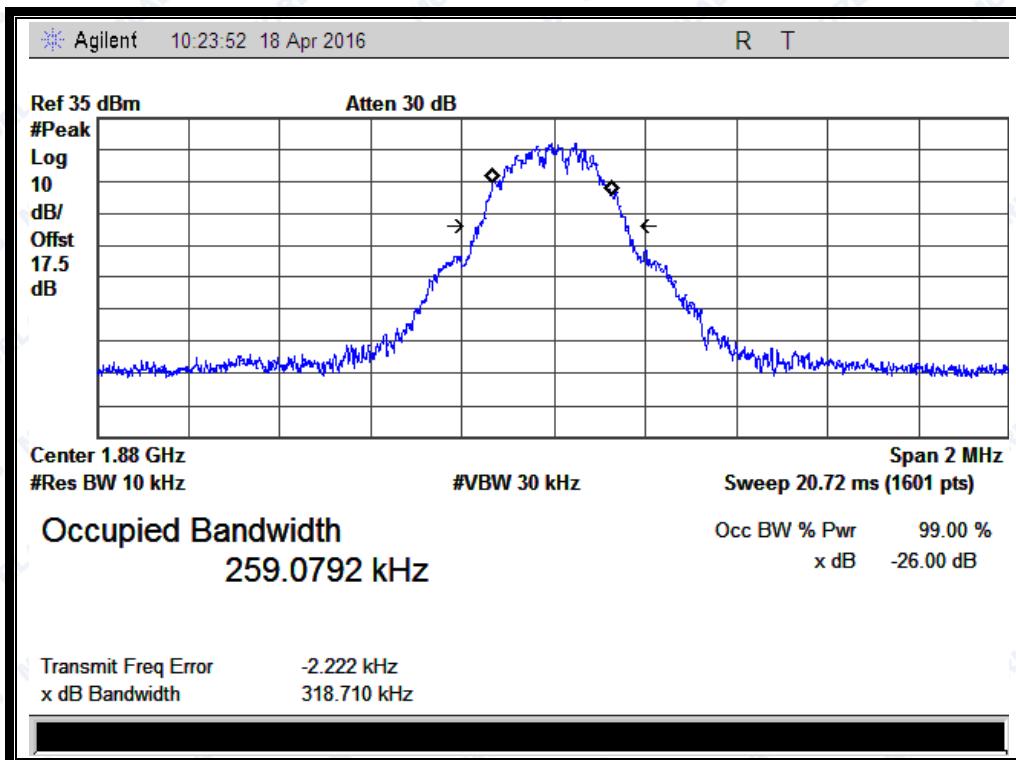
(Plot C3: GPRS 850MHz Channel = 251)



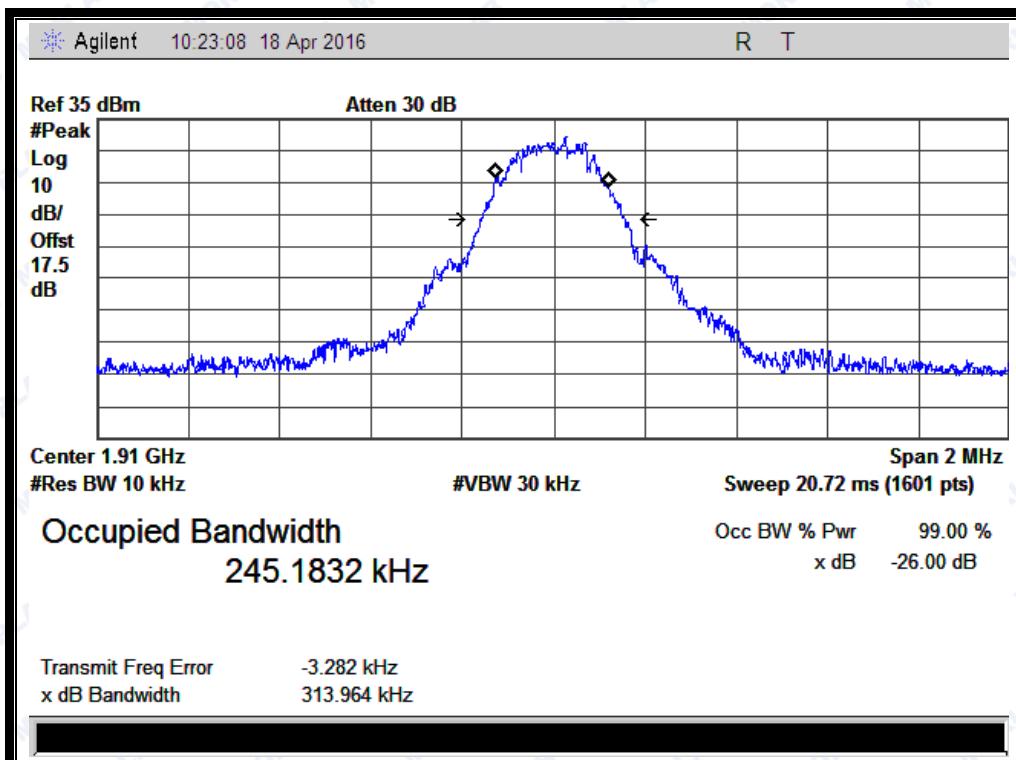
(Plot D1: GPRS1900MHz Channel = 512)



REPORT No.: SZ16030142W04



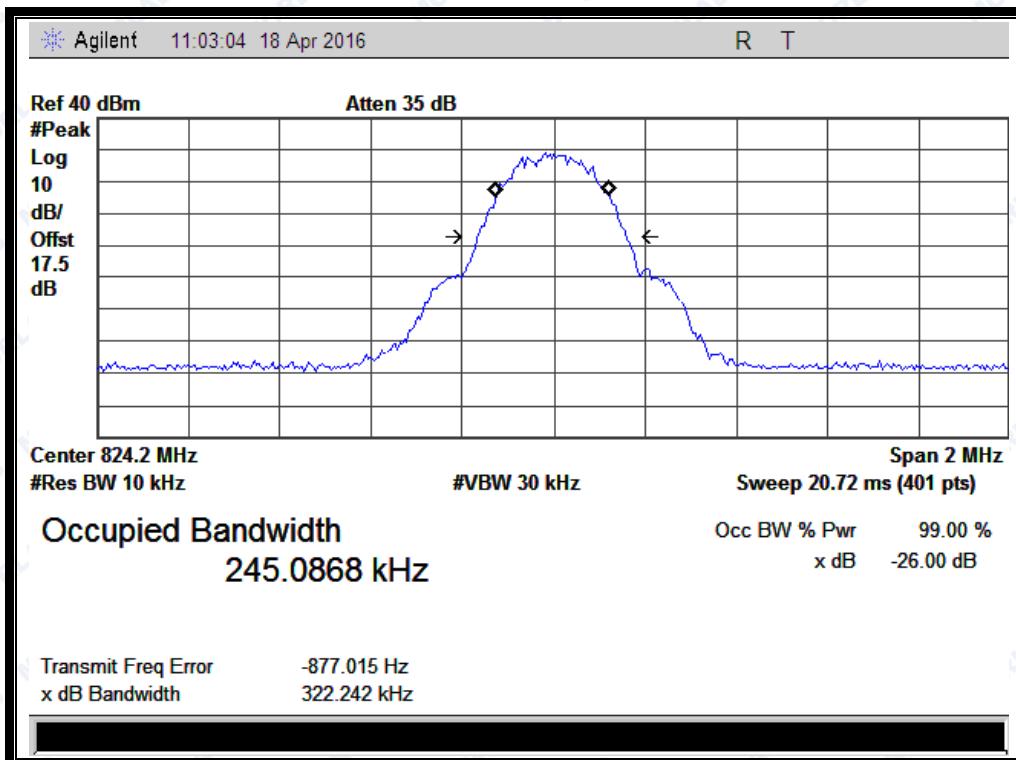
(Plot D2: GPRS1900MHz Channel = 661)



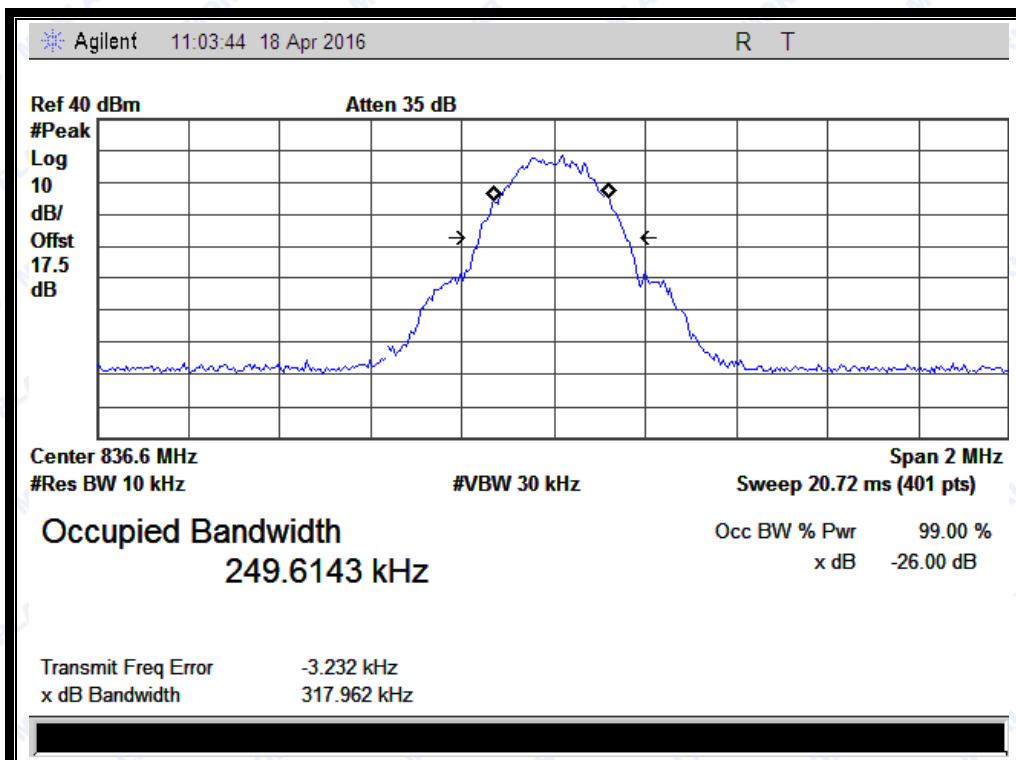
(Plot D3: GPRS 1900MHz Channel = 810)



REPORT No.: SZ16030142W04



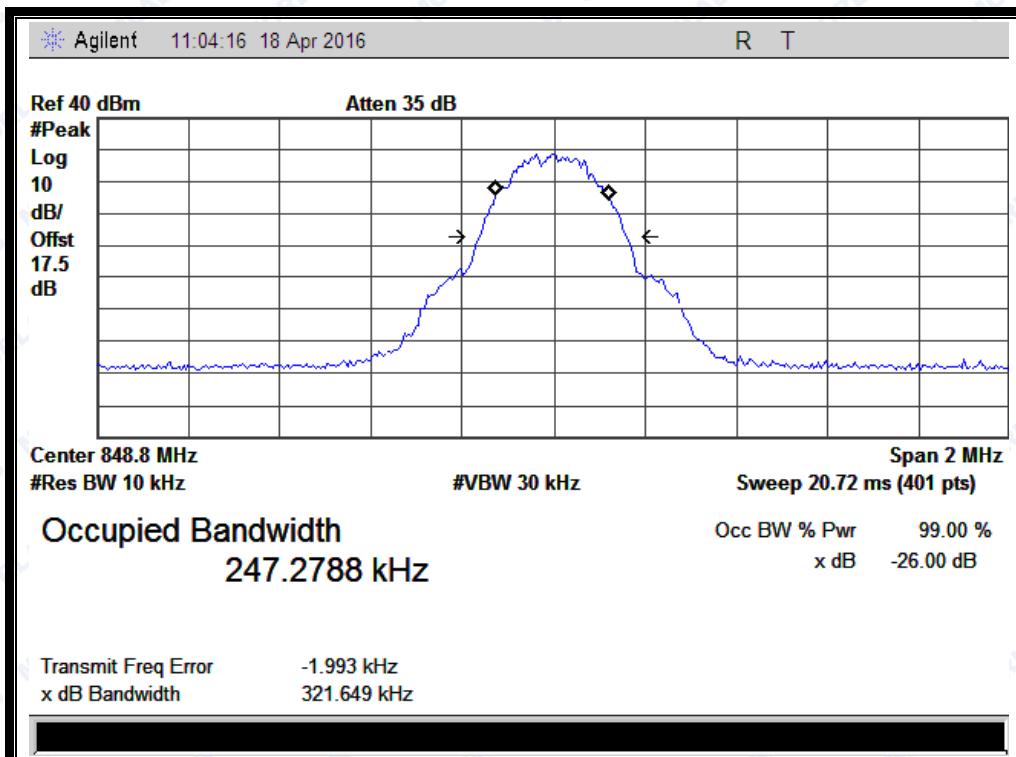
(Plot E1: EGPRS 850MHz Channel = 128)



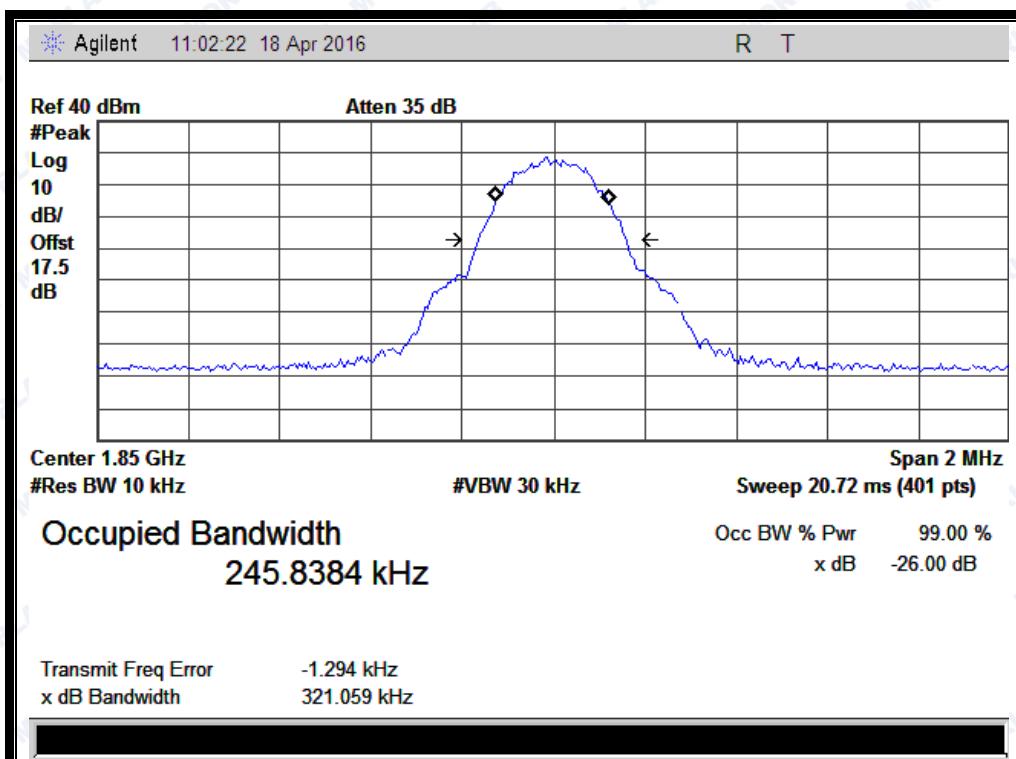
(Plot E2: EGPRS 850MHz Channel = 190)



REPORT No.: SZ16030142W04



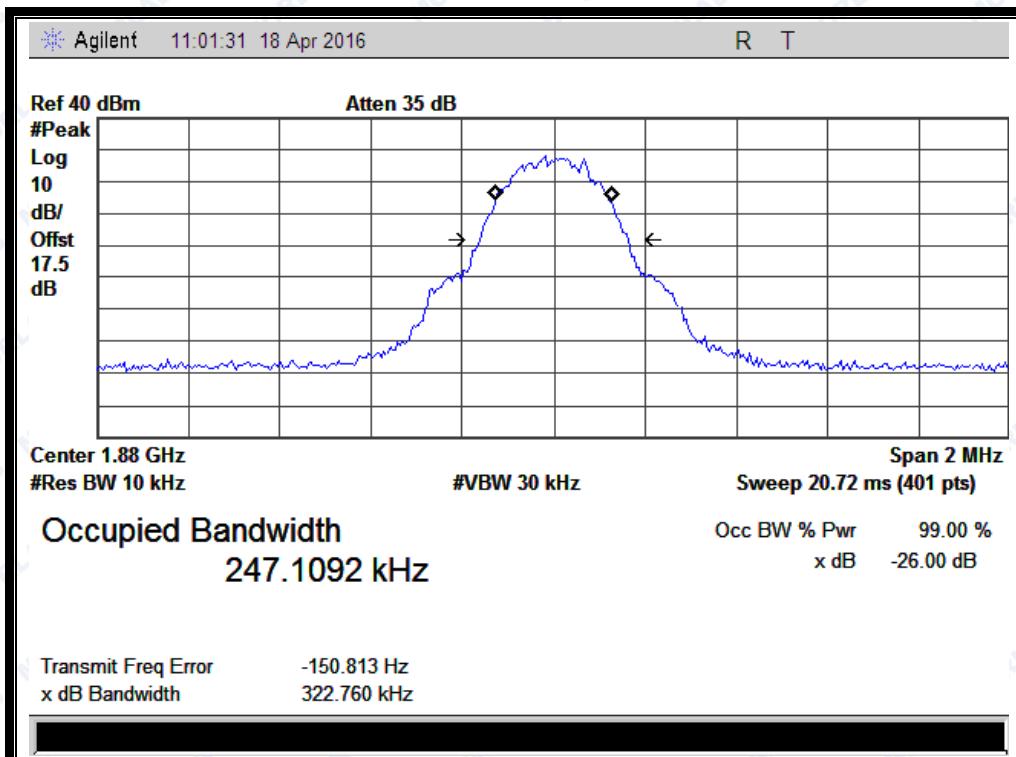
(Plot E3: EGPRS 850MHz Channel = 251)



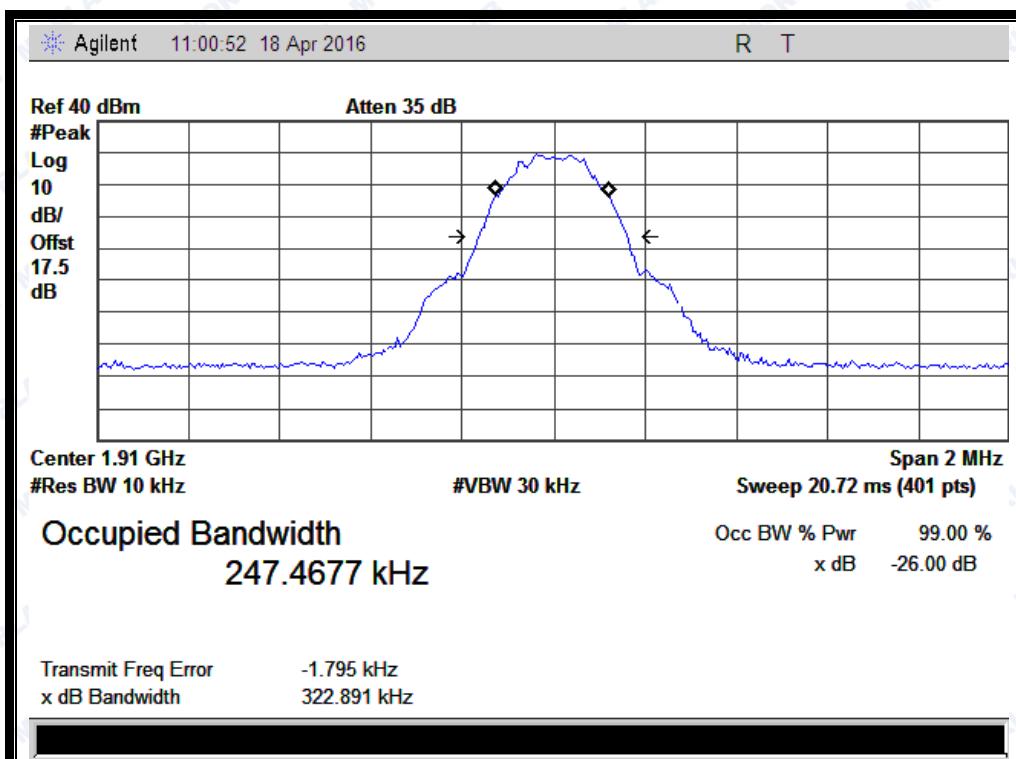
(Plot F1: EGPRS1900MHz Channel = 512)



REPORT No.: SZ16030142W04



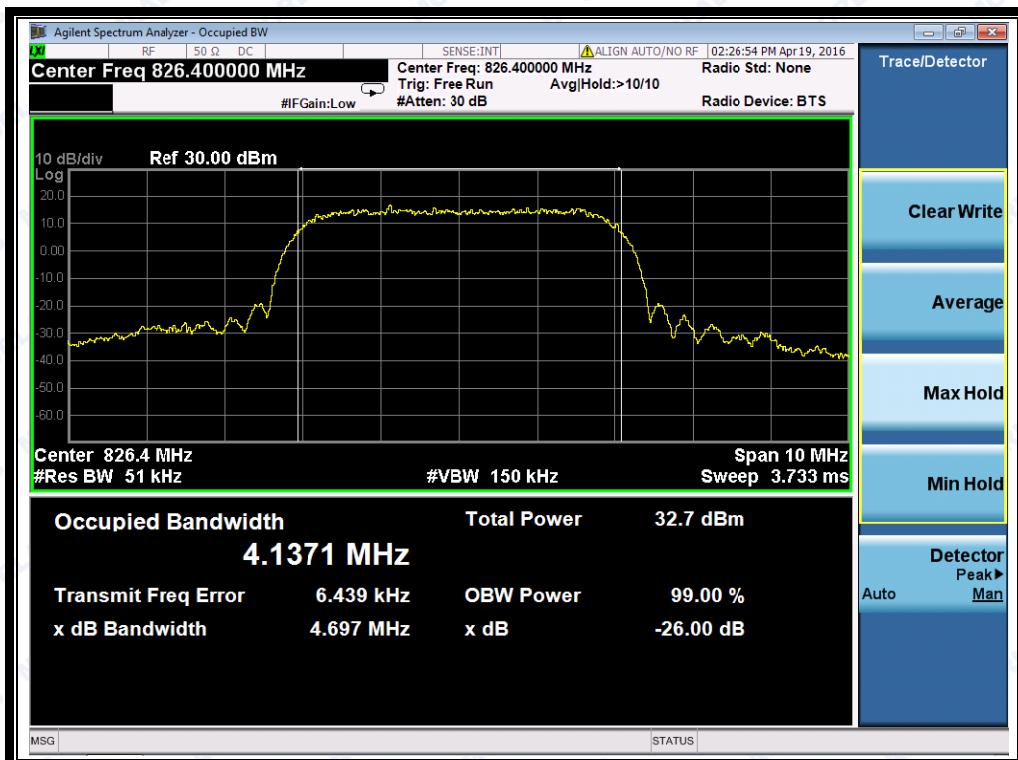
(Plot F2: EGPRS1900MHz Channel = 661)



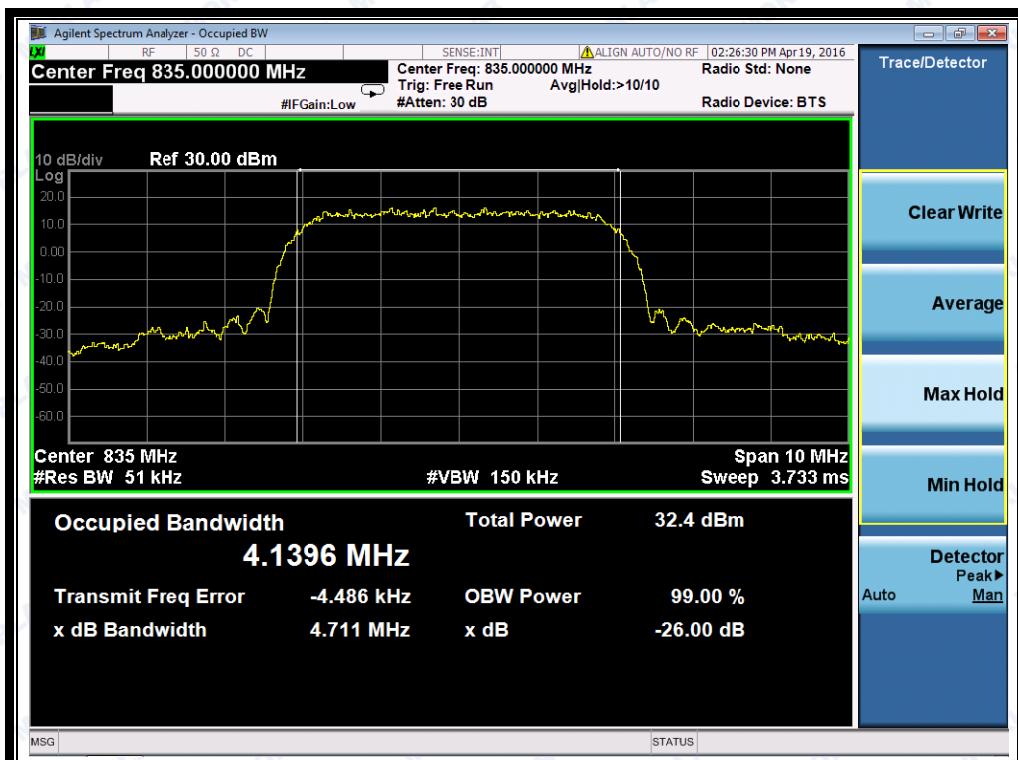
(Plot F3: EGPRS 1900MHz Channel = 810)



REPORT No.: SZ16030142W04



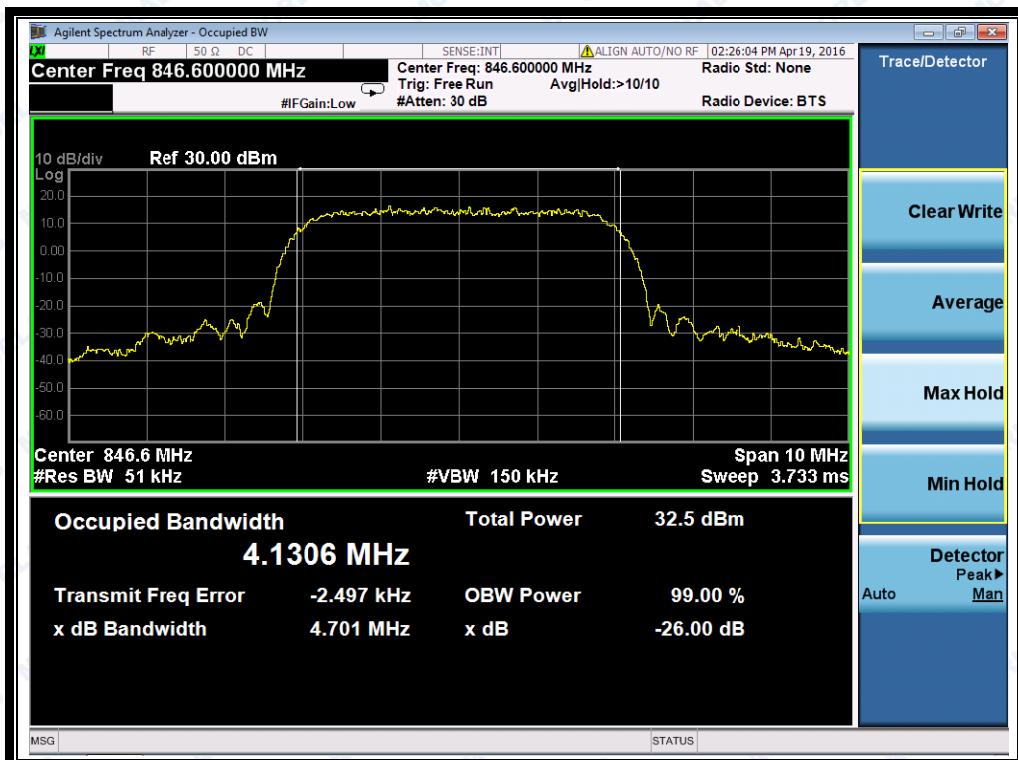
(Plot G1: WCDMA 850MHz Channel = 4132)



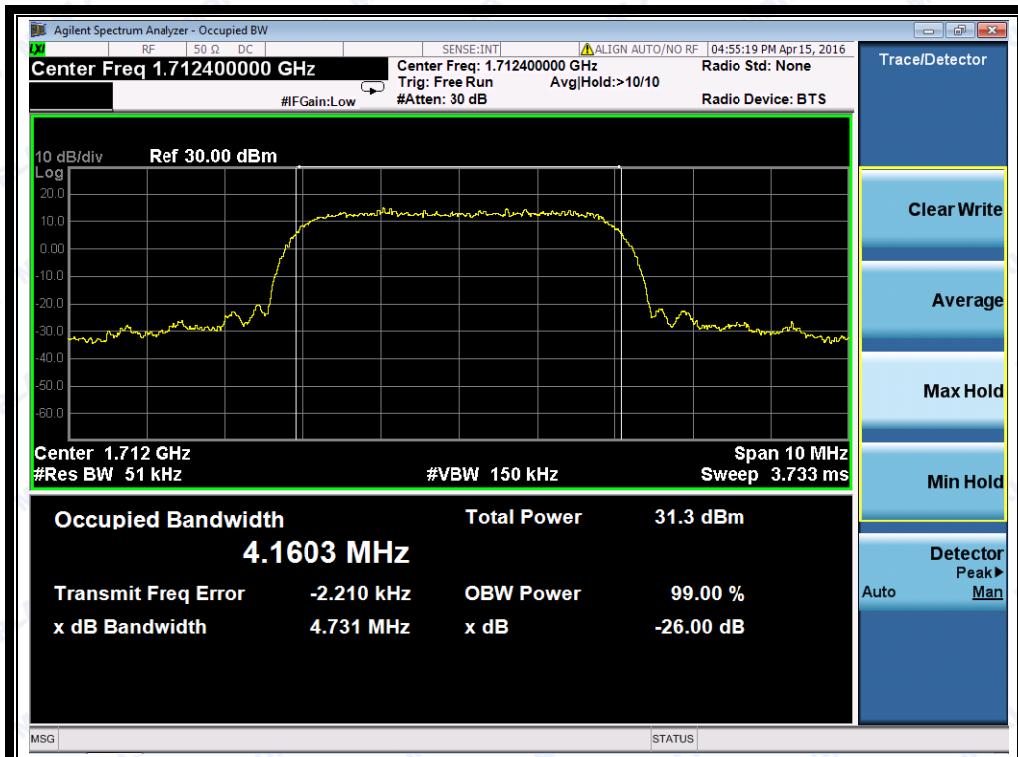
(Plot G2: WCDMA 850 MHz Channel = 4175)



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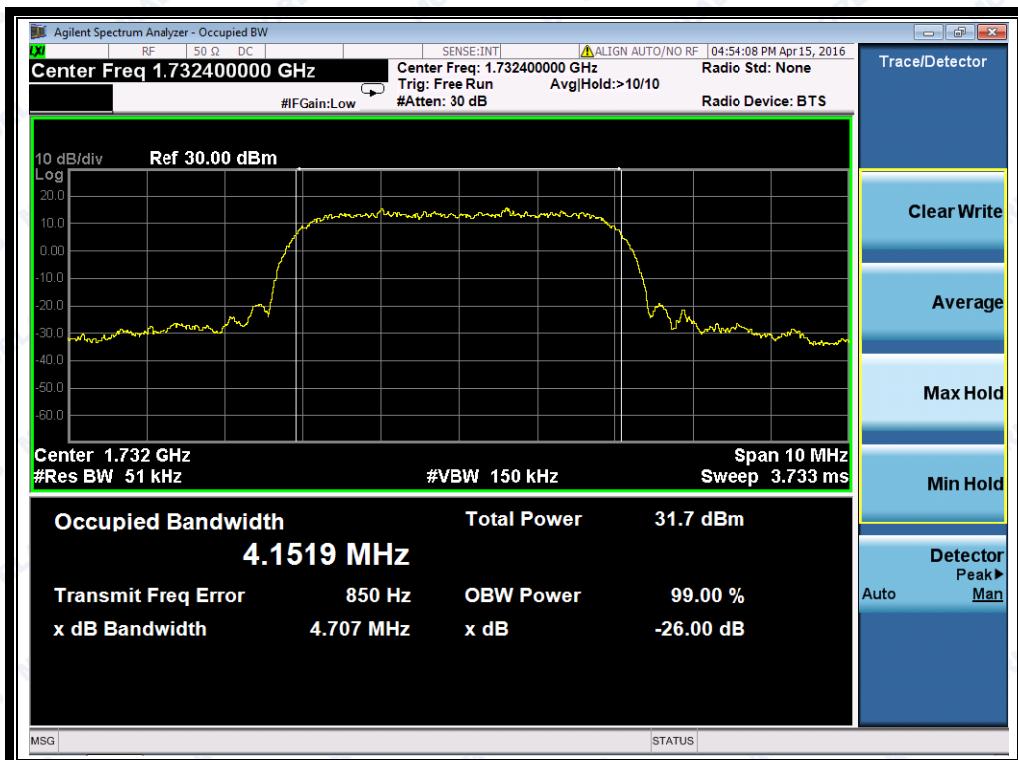
(Plot G3: WCDMA 850MHz Channel = 4233)



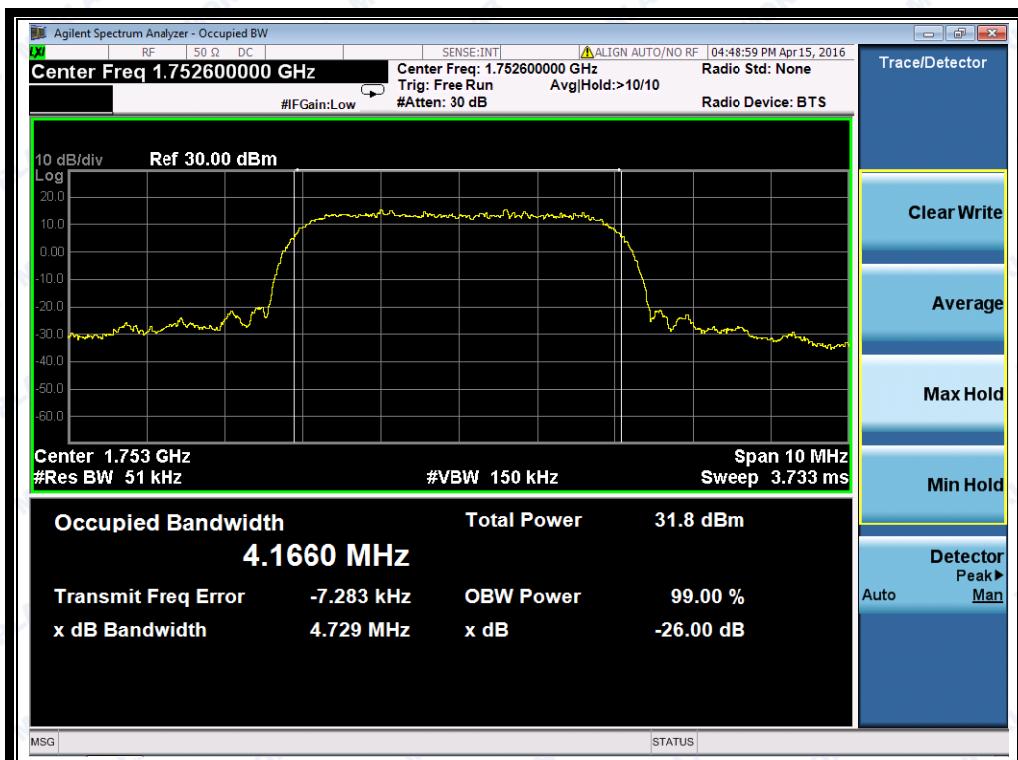
(Plot H1: WCDMA 1700MHz Channel = 1312)



REPORT No.: SZ16030142W04



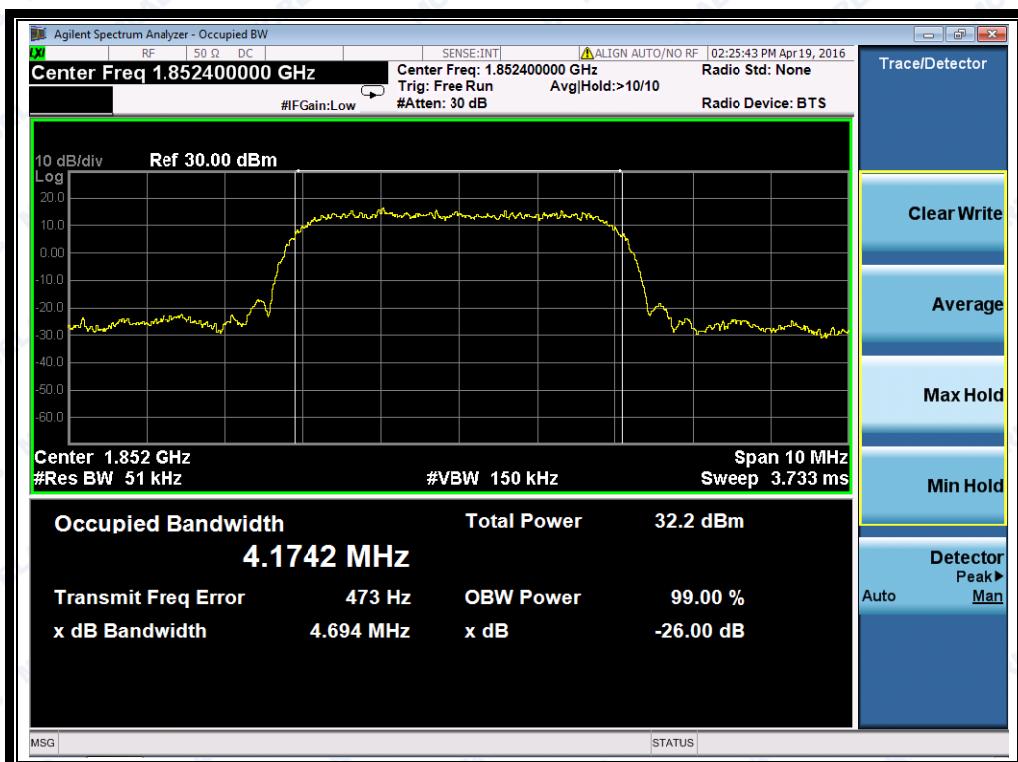
(Plot H2: WCDMA 1700 MHz Channel = 1412)



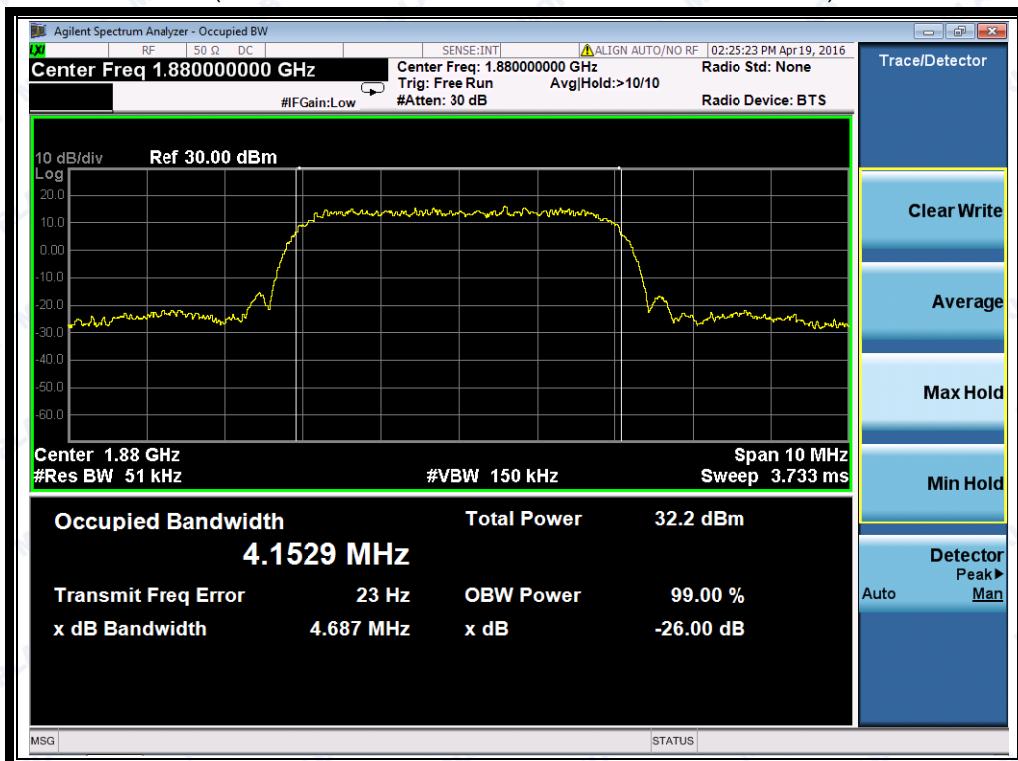
(Plot H3: WCDMA1700MHz Channel = 1513)



REPORT No.: SZ16030142W04



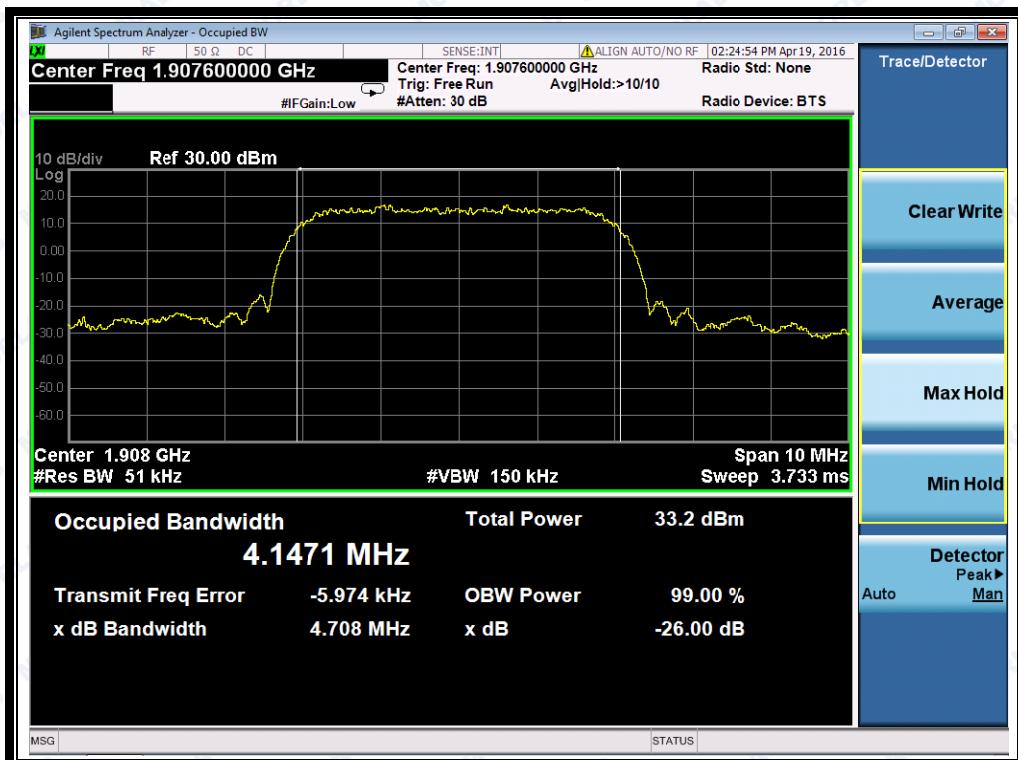
(Plot I1: WCDMA 1900MHz Channel = 9262)



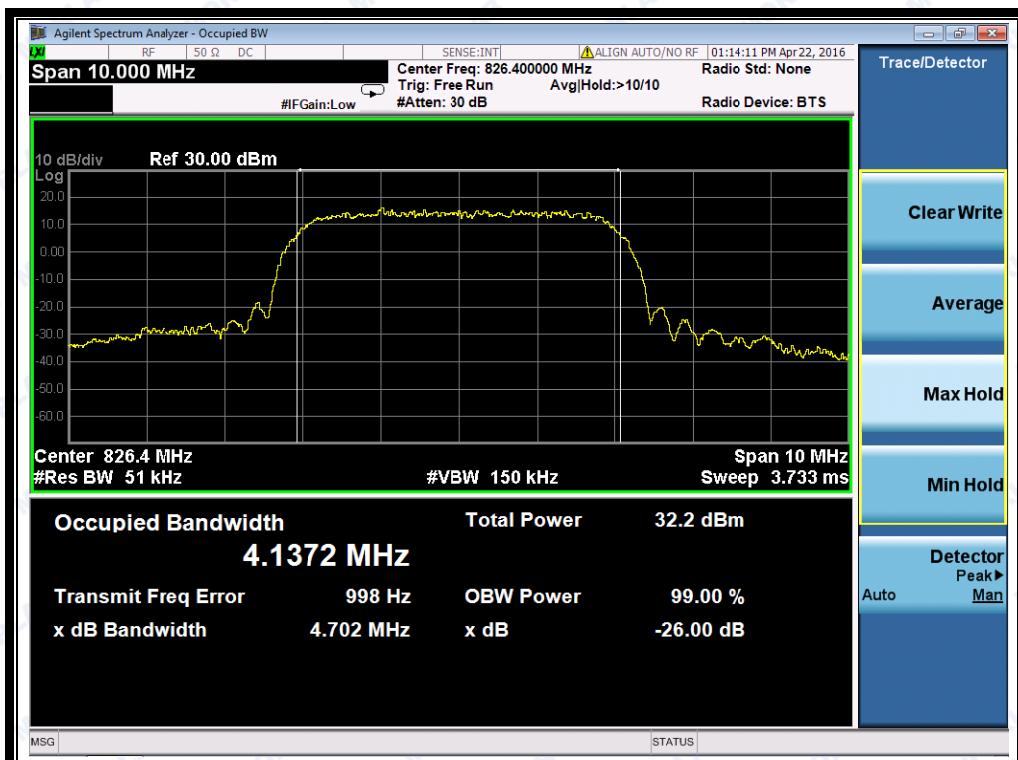
(Plot I2: WCDMA 1900 MHz Channel = 9400)



REPORT No.: SZ16030142W04



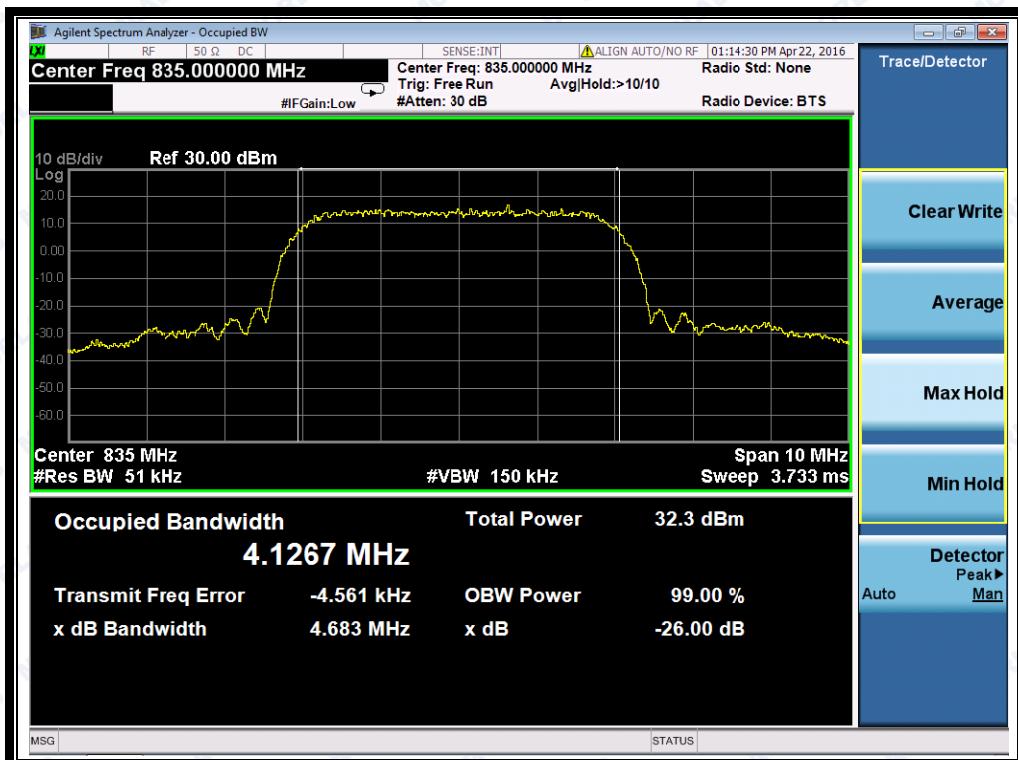
(Plot I3: WCDMA1900MHz Channel = 9538)



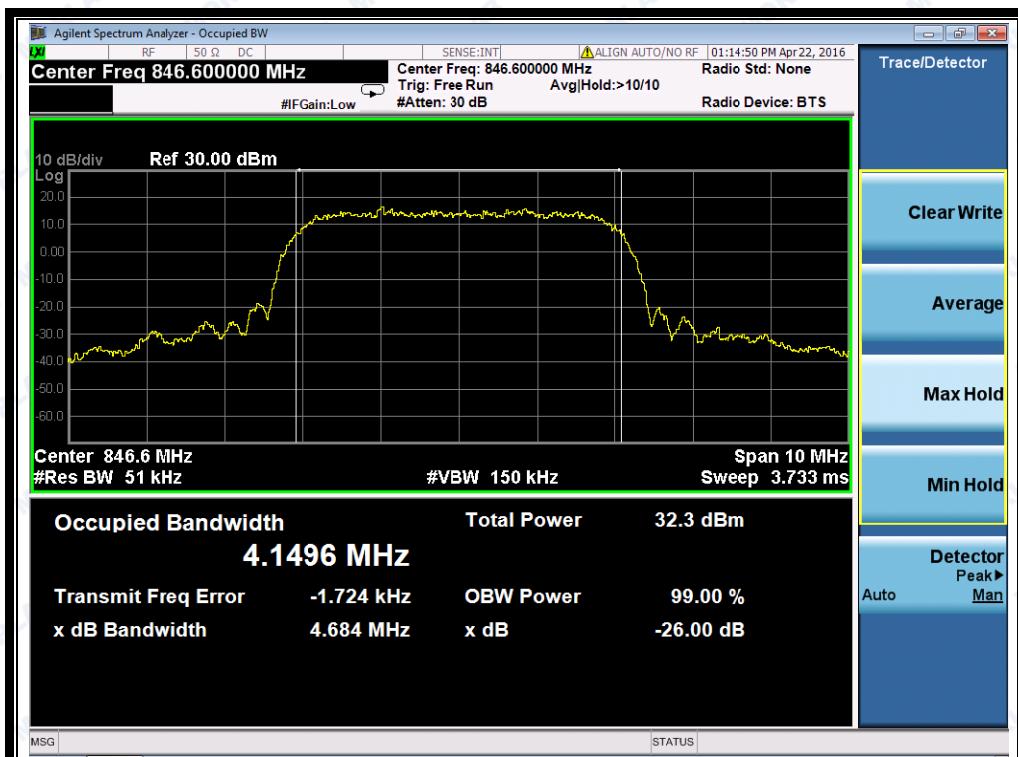
(Plot J1: HSDPA 850MHz Channel = 4132)



REPORT No.: SZ16030142W04



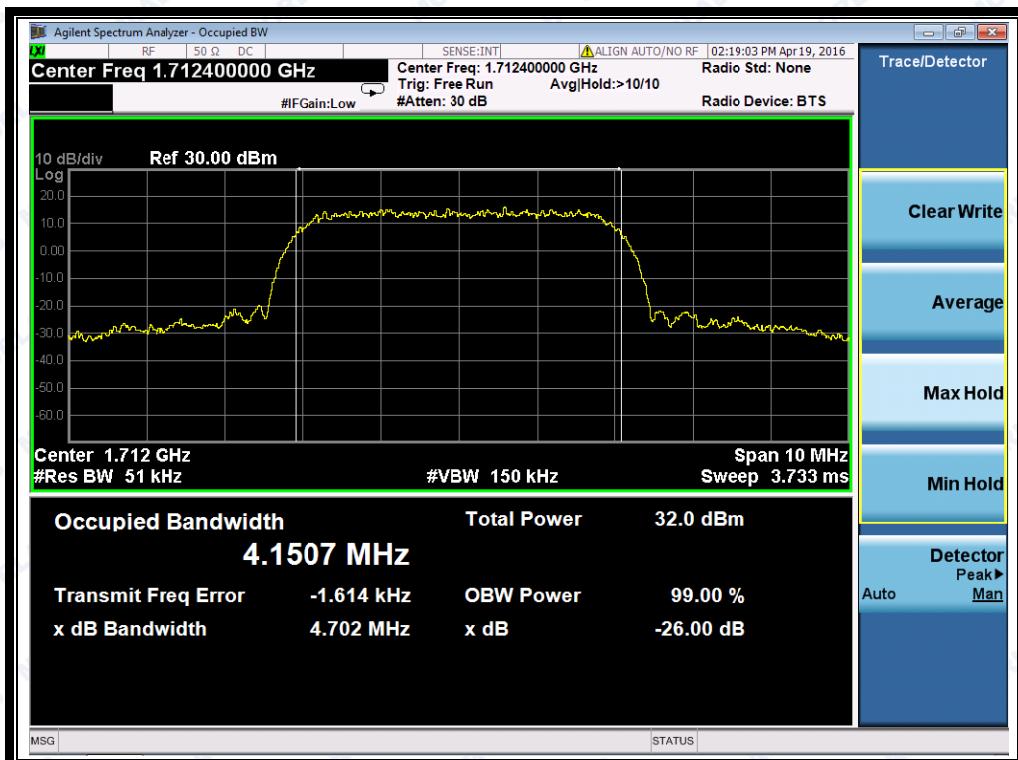
(Plot J2: HSDPA 850 MHz Channel = 4175)



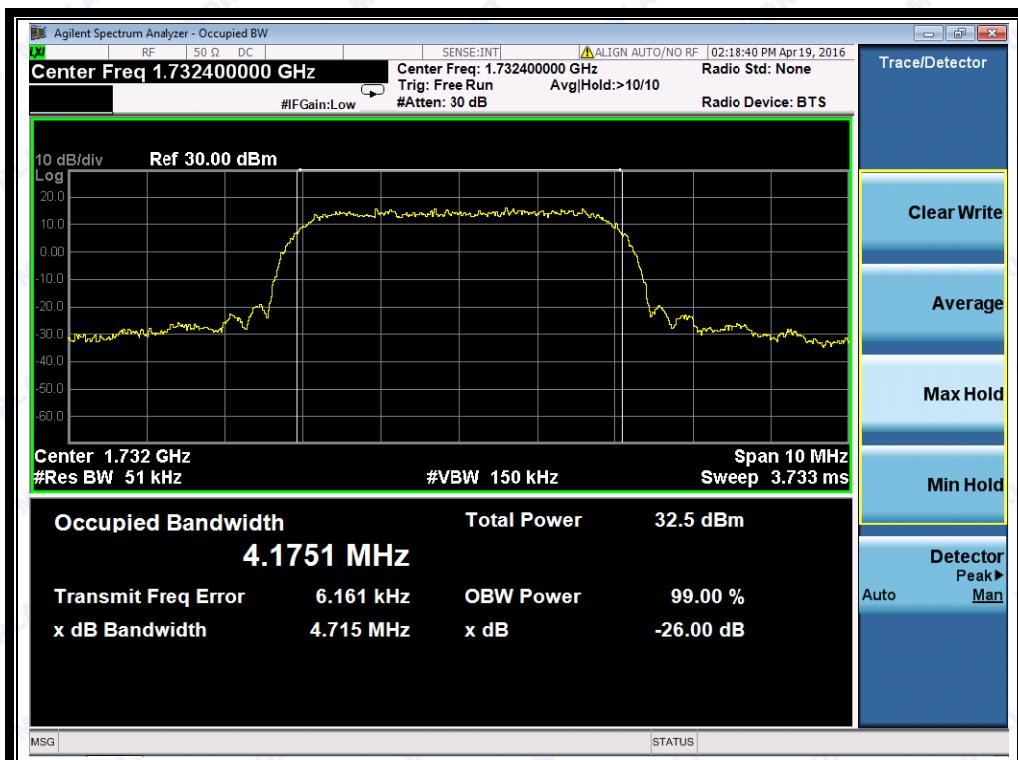
(Plot J3: HSDPA 850MHz Channel = 4233)



REPORT No.: SZ16030142W04



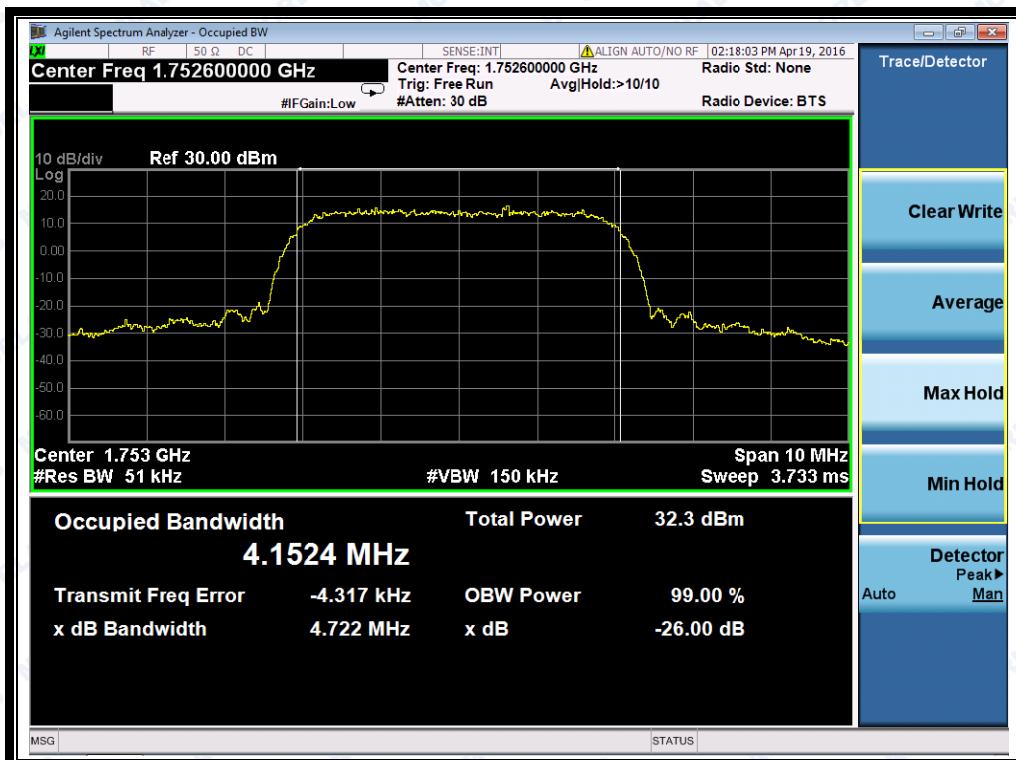
(Plot K1: HSDPA 1700MHz Channel = 1312)



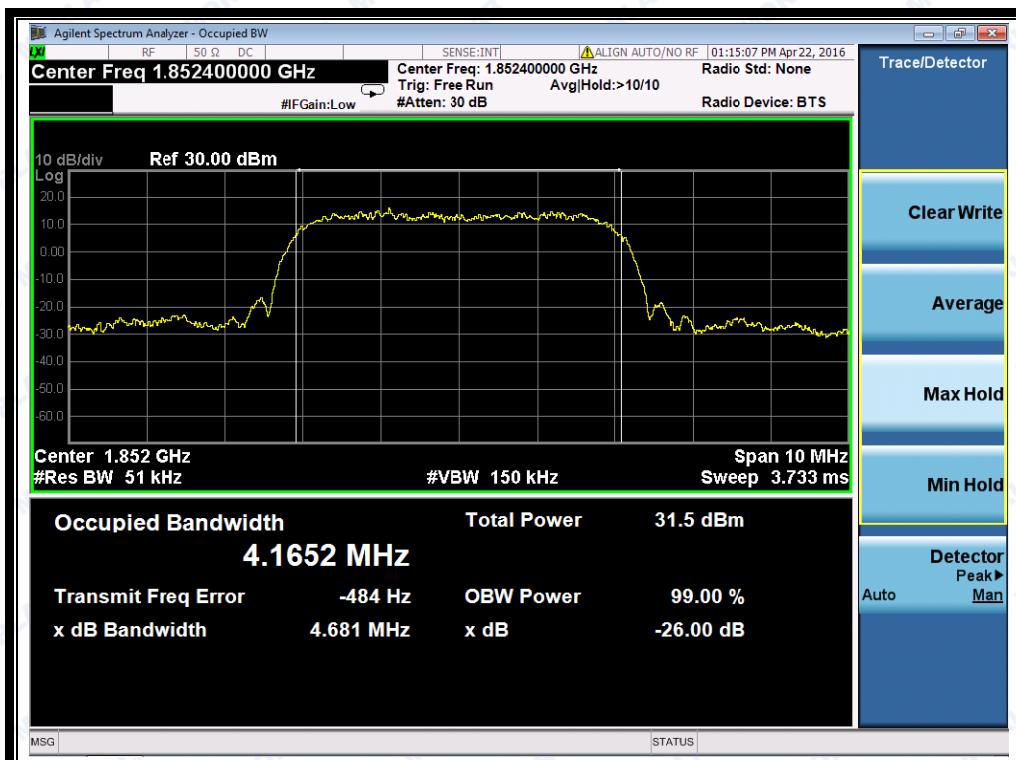
(Plot K2: HSDPA 1700 MHz Channel = 1412)



REPORT No.: SZ16030142W04



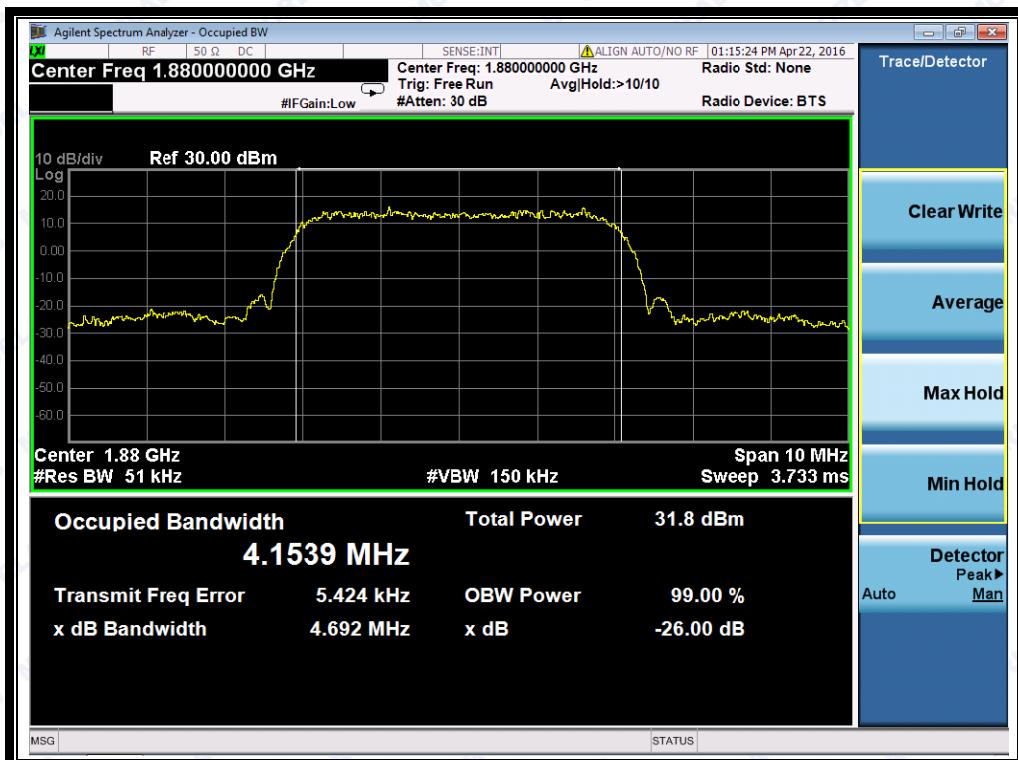
(Plot K3: HSDPA 1700MHz Channel = 1513)



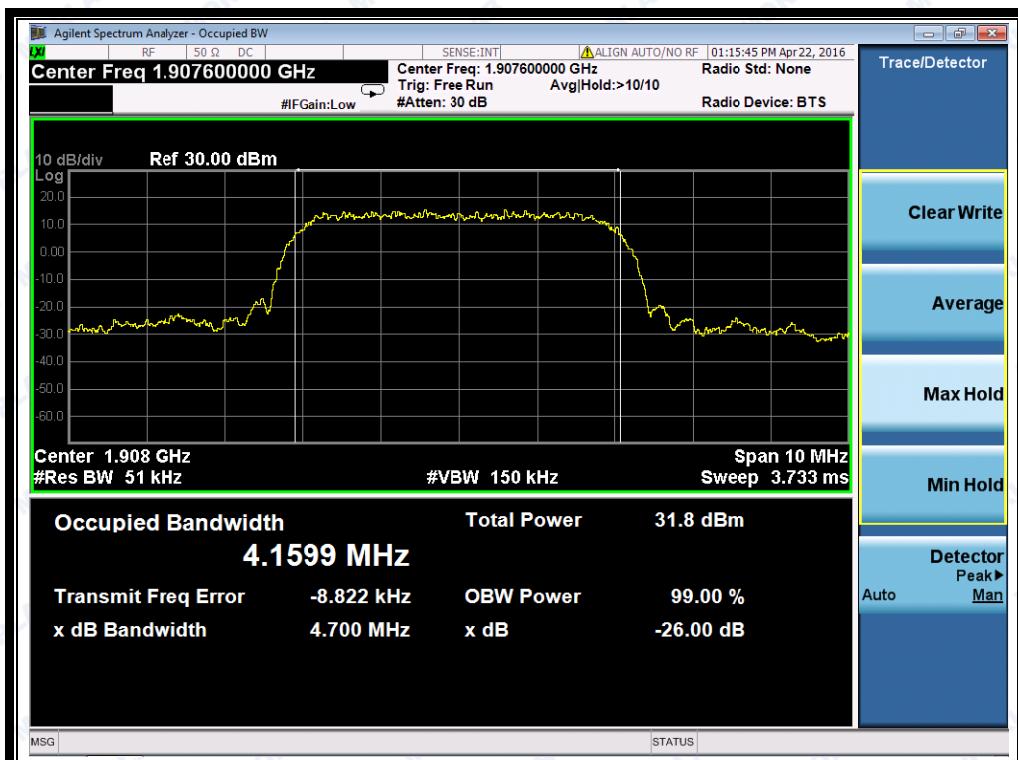
(Plot L1: HSDPA 1900MHz Channel = 9262)



REPORT No.: SZ16030142W04



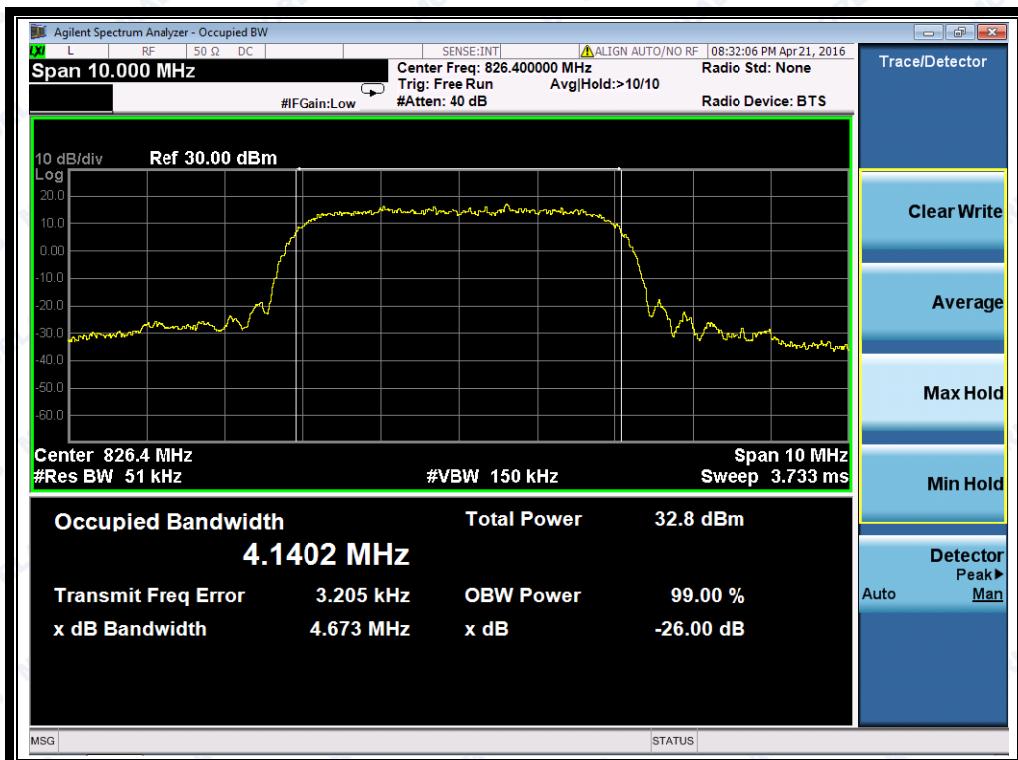
(Plot L2: HSDPA 1900 MHz Channel = 9400)



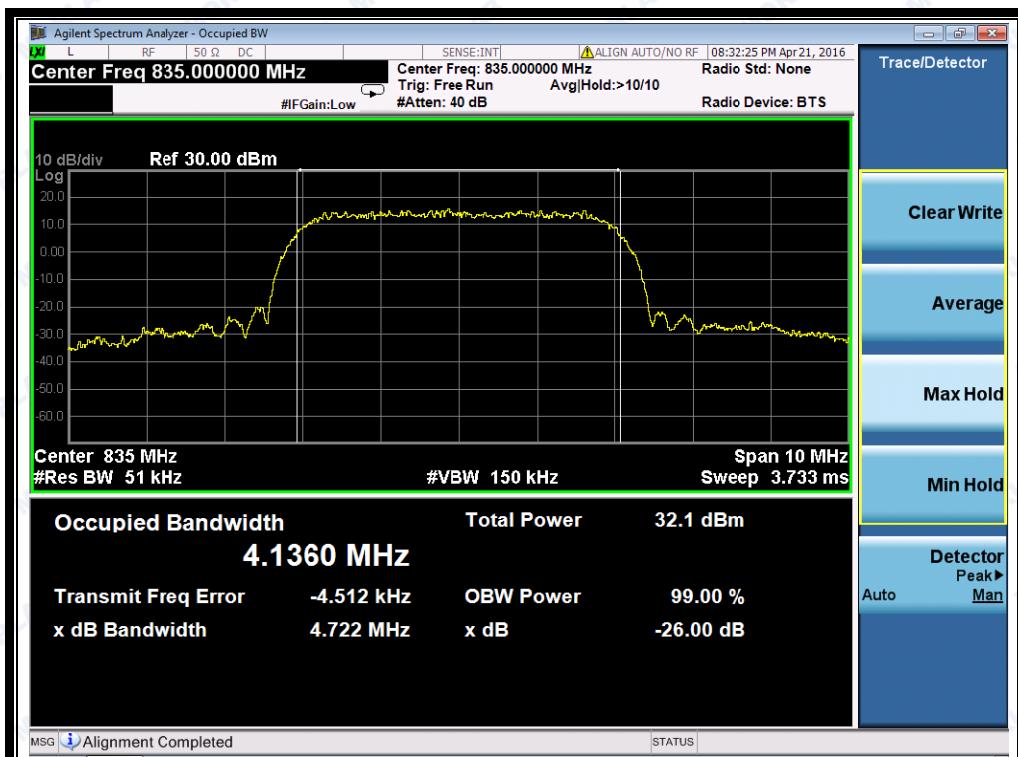
(Plot L3: HSDPA 1900MHz Channel = 9538)



REPORT No.: SZ16030142W04



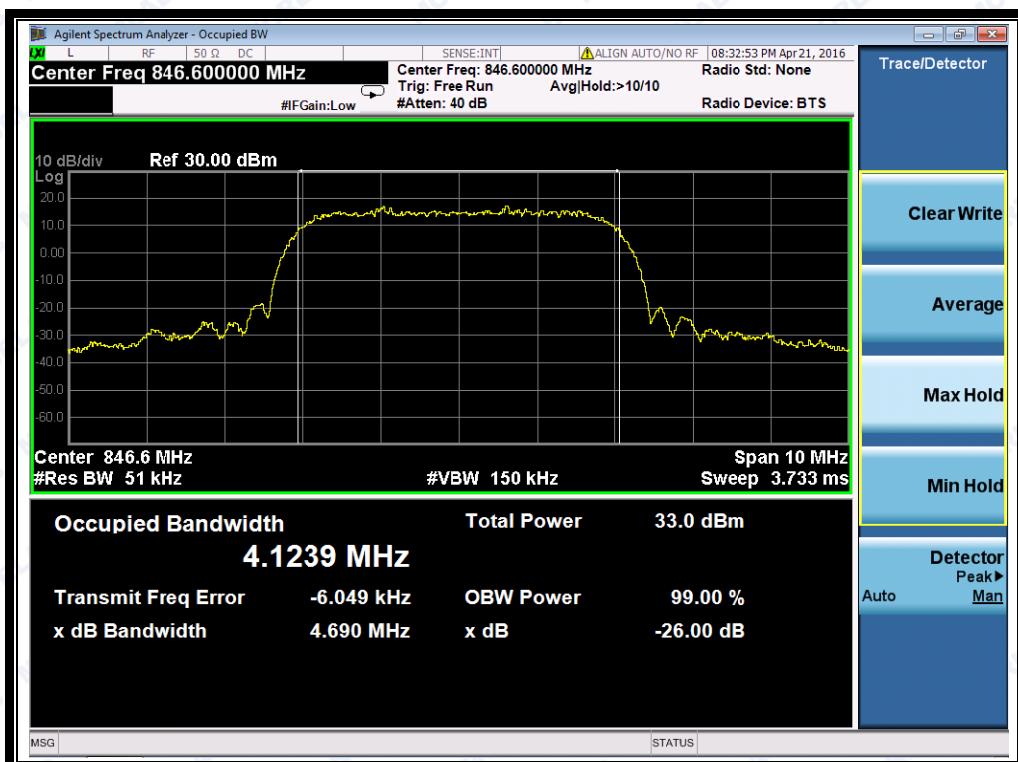
(Plot M1: HSUPA 850MHz Channel = 4132)



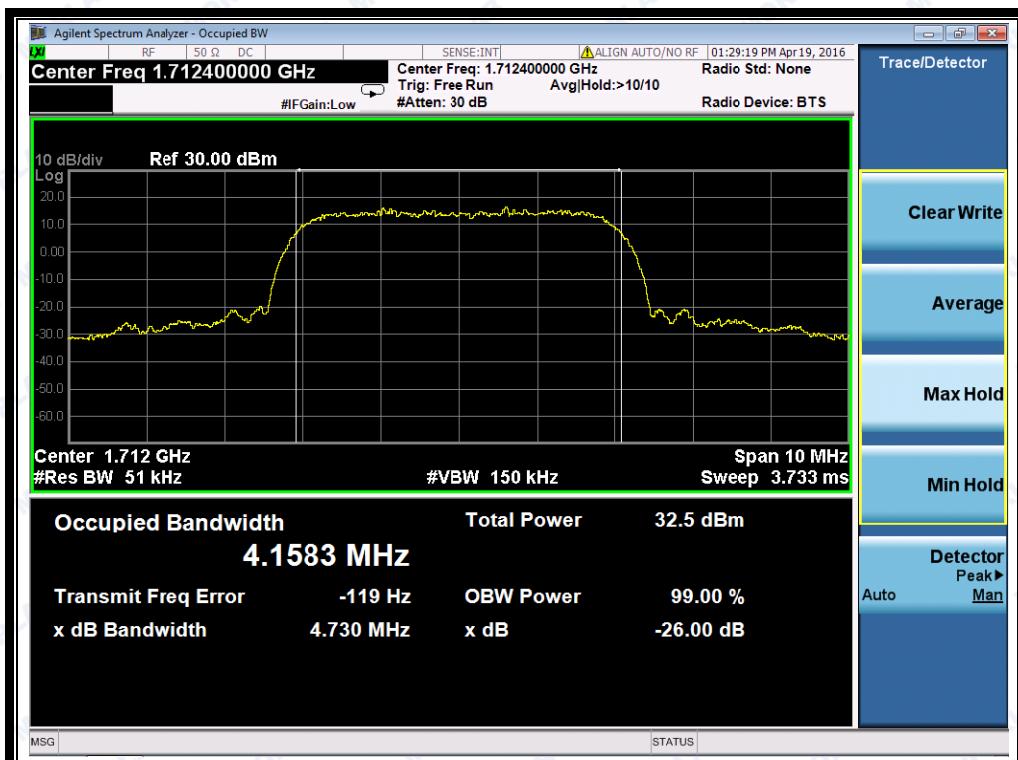
(Plot M2: HSUPA 850 MHz Channel = 4175)



REPORT No.: SZ16030142W04



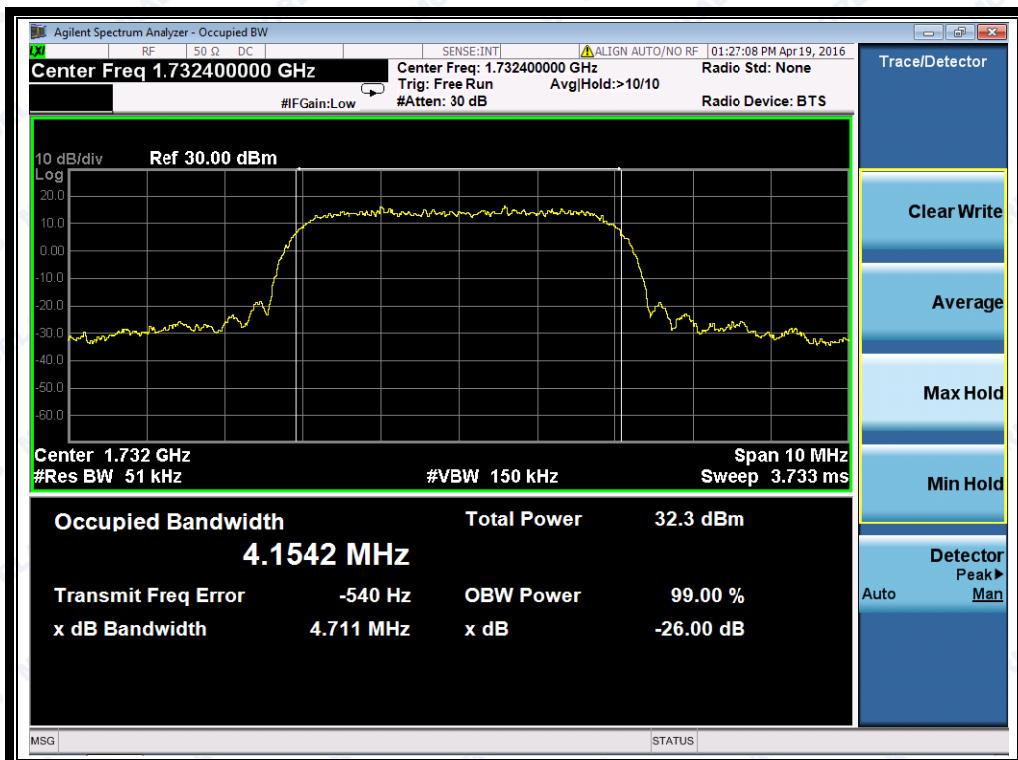
(Plot M3: HSUPA 850MHz Channel = 4233)



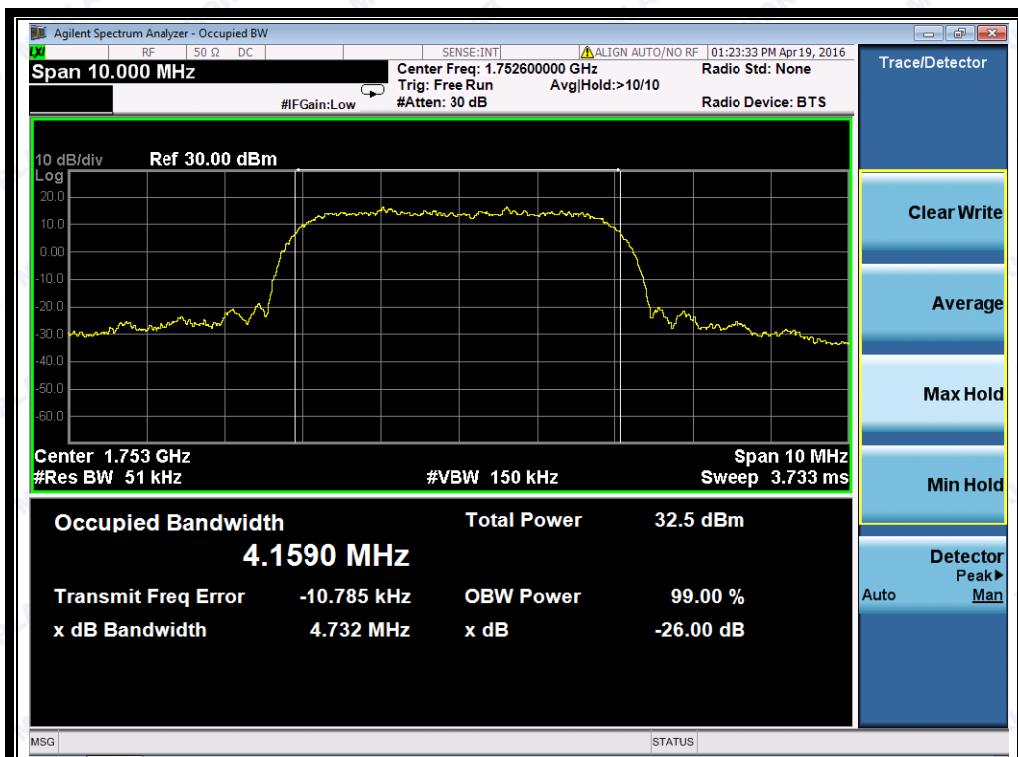
(Plot N1: HSUPA 1700MHz Channel = 1312)



REPORT No.: SZ16030142W04



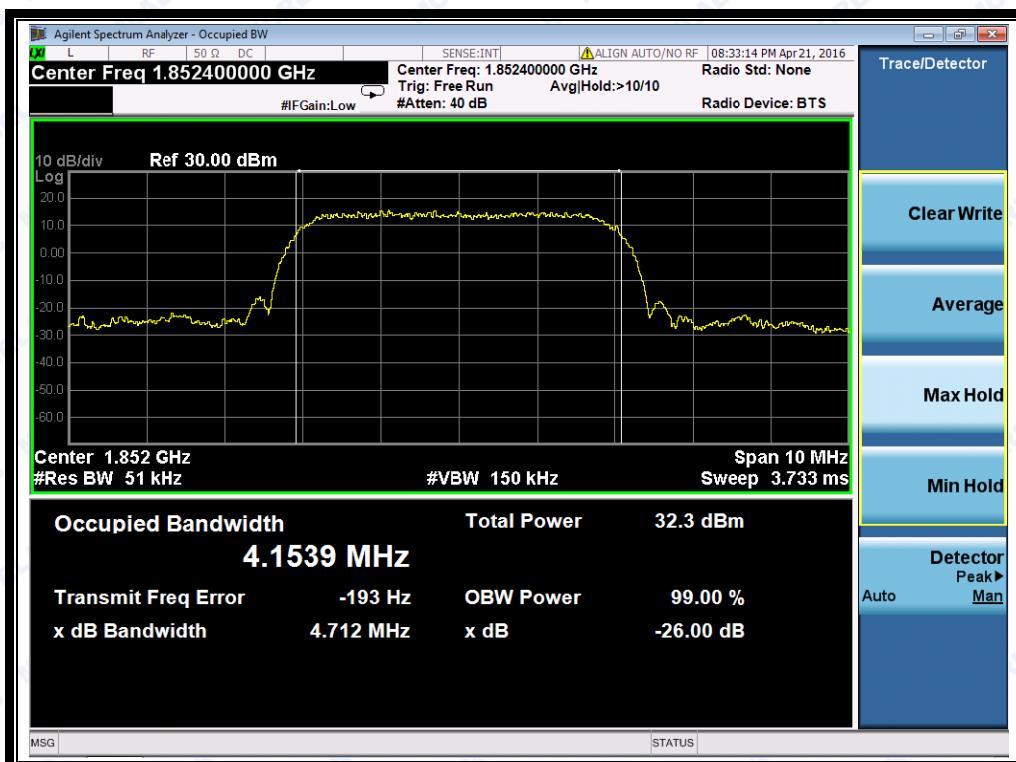
(Plot N2: HSUPA 1700 MHz Channel = 1412)



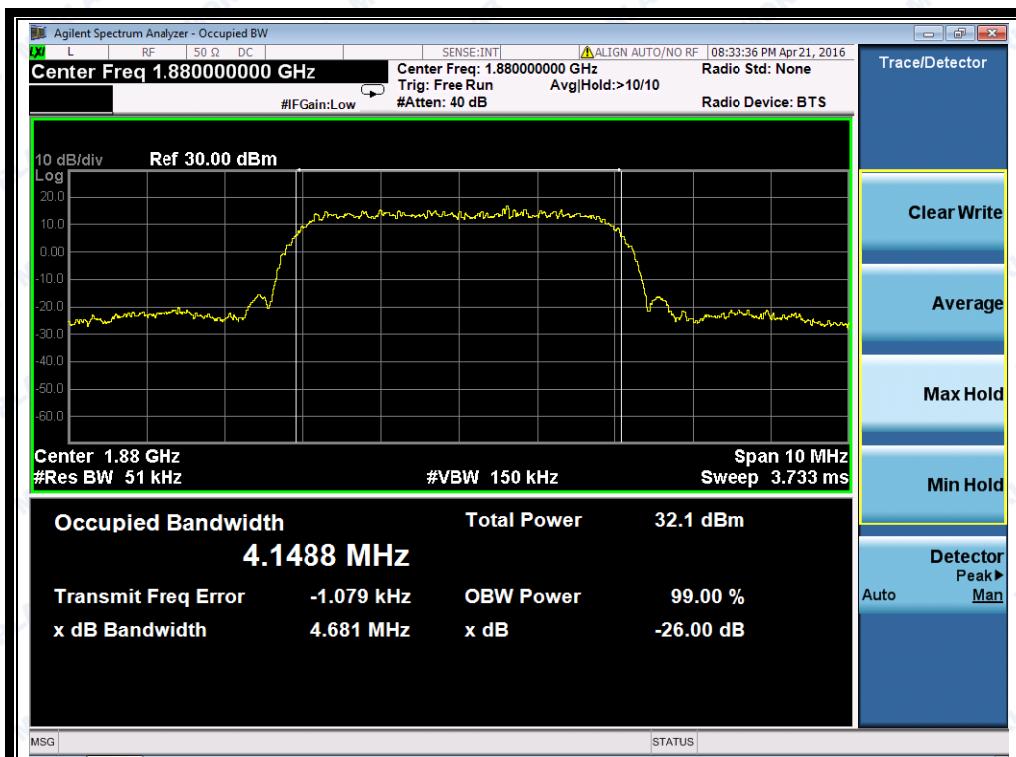
(Plot N3: HSUPA 1700MHz Channel = 1513)



REPORT No.: SZ16030142W04



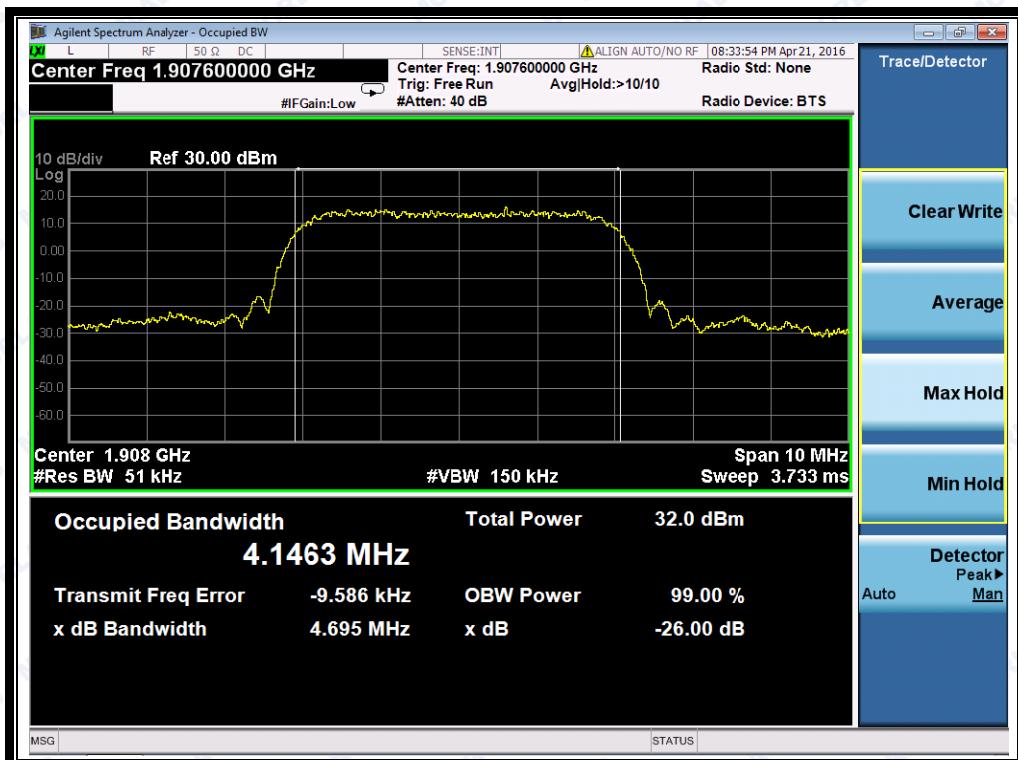
(Plot O1: HSUPA 1900MHz Channel = 9262)



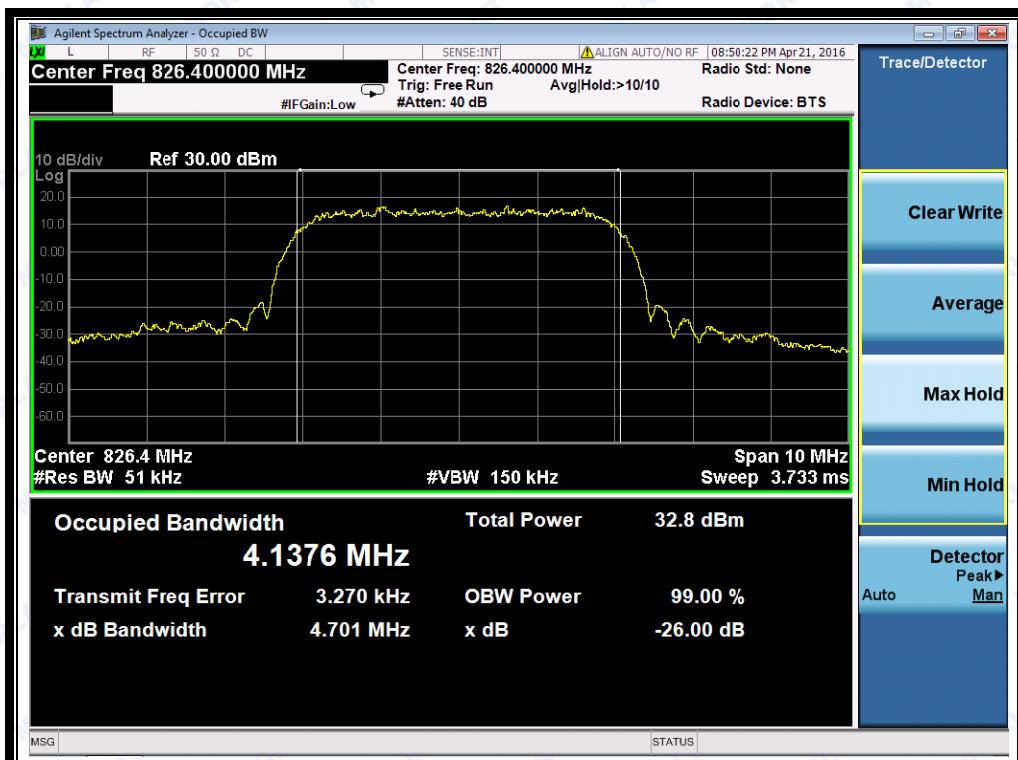
(Plot O2: HSUPA 1900 MHz Channel = 9400)



REPORT No.: SZ16030142W04



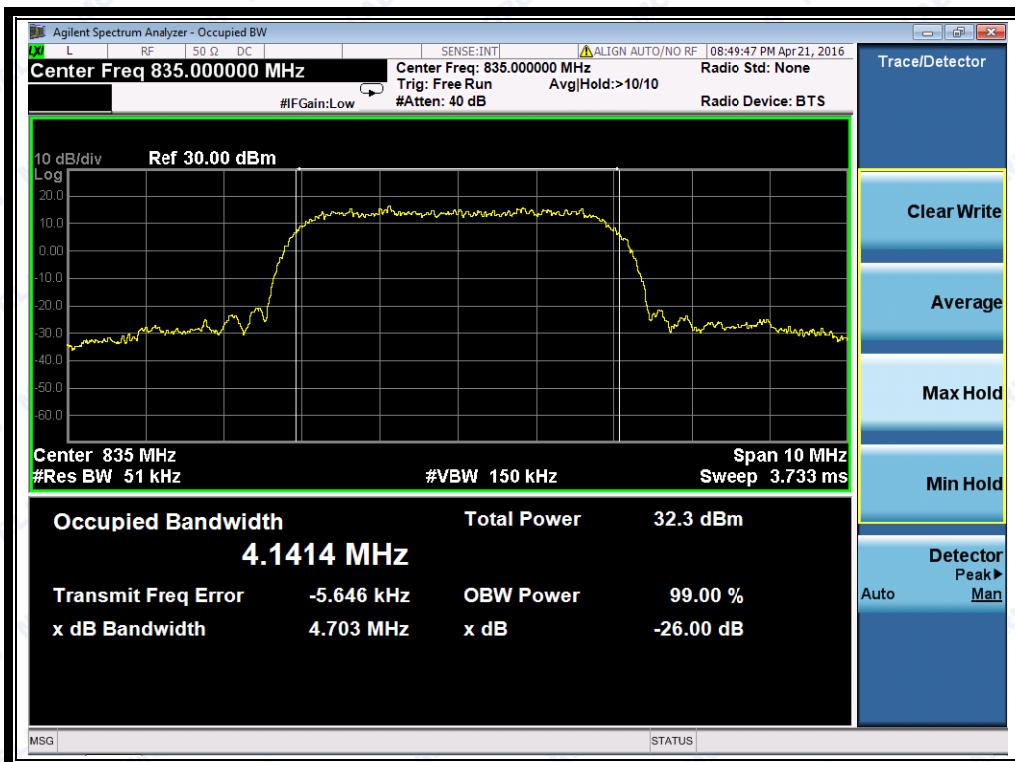
(Plot O3: HSUPA 1900MHz Channel = 9538)



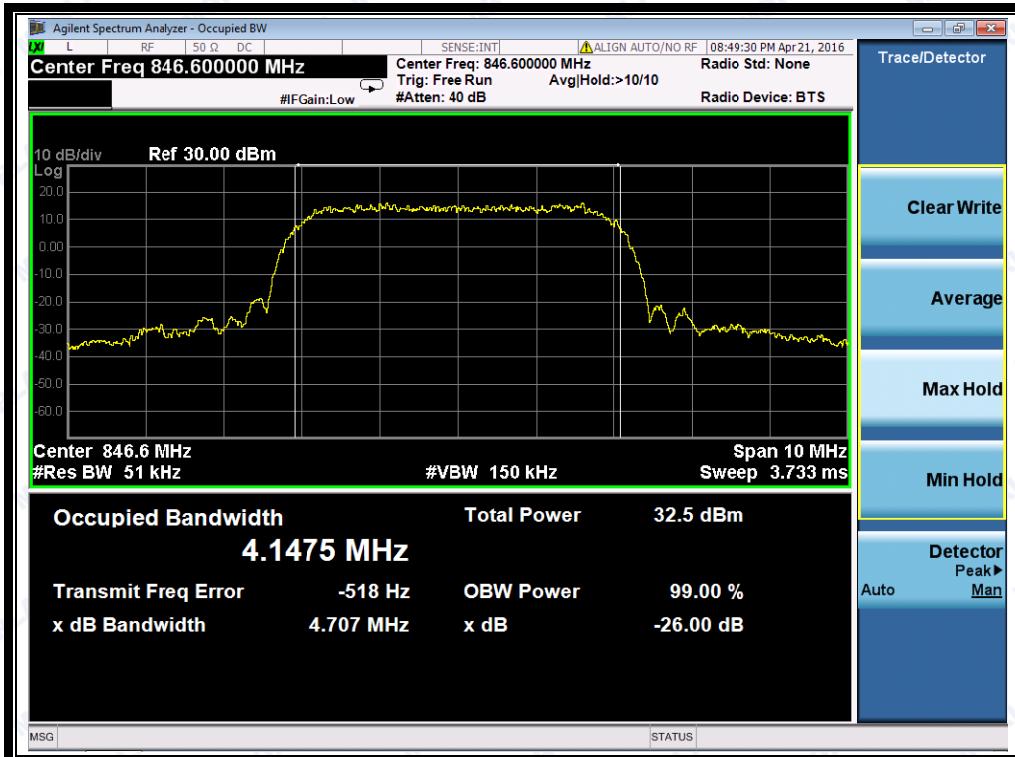
(Plot P1: HSPA+ 850MHz Channel = 4132)



REPORT No.: SZ16030142W04



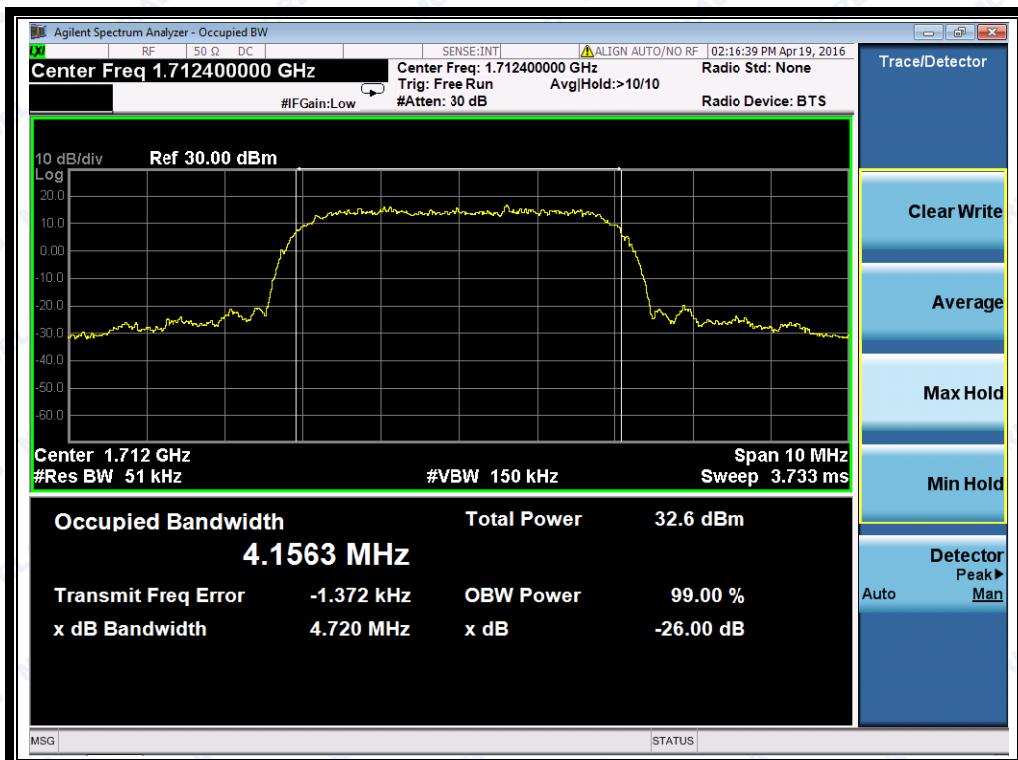
(Plot P2: HSPA+850 MHz Channel = 4175)



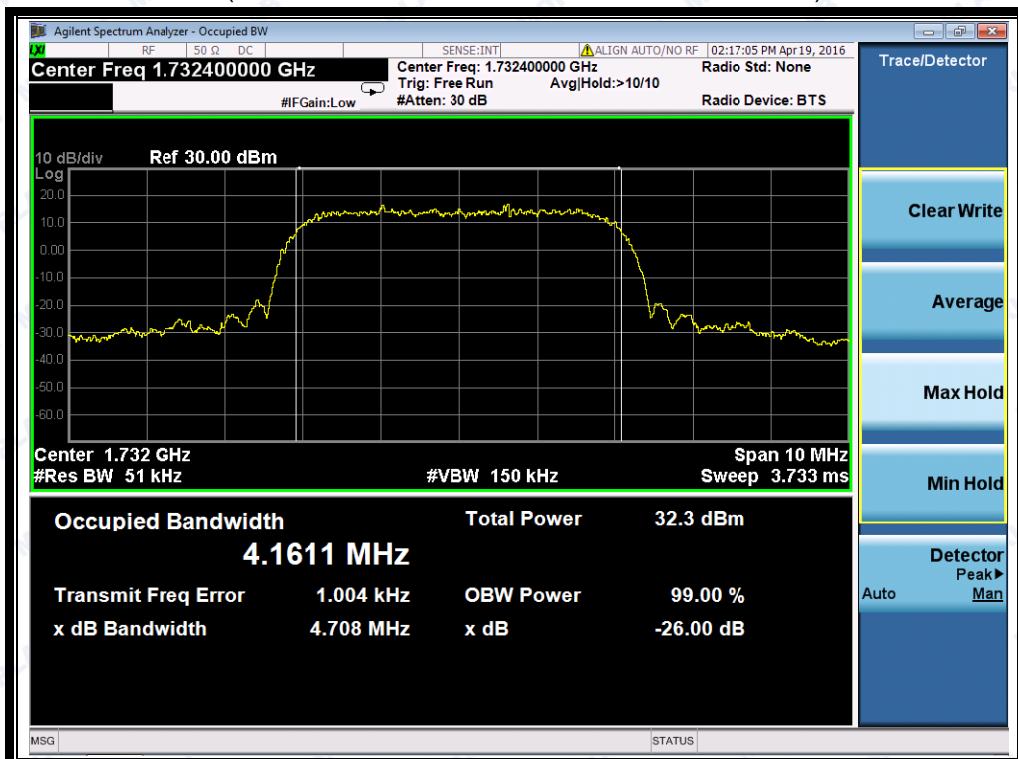
(Plot P3: HSPA+ 850MHz Channel = 4233)



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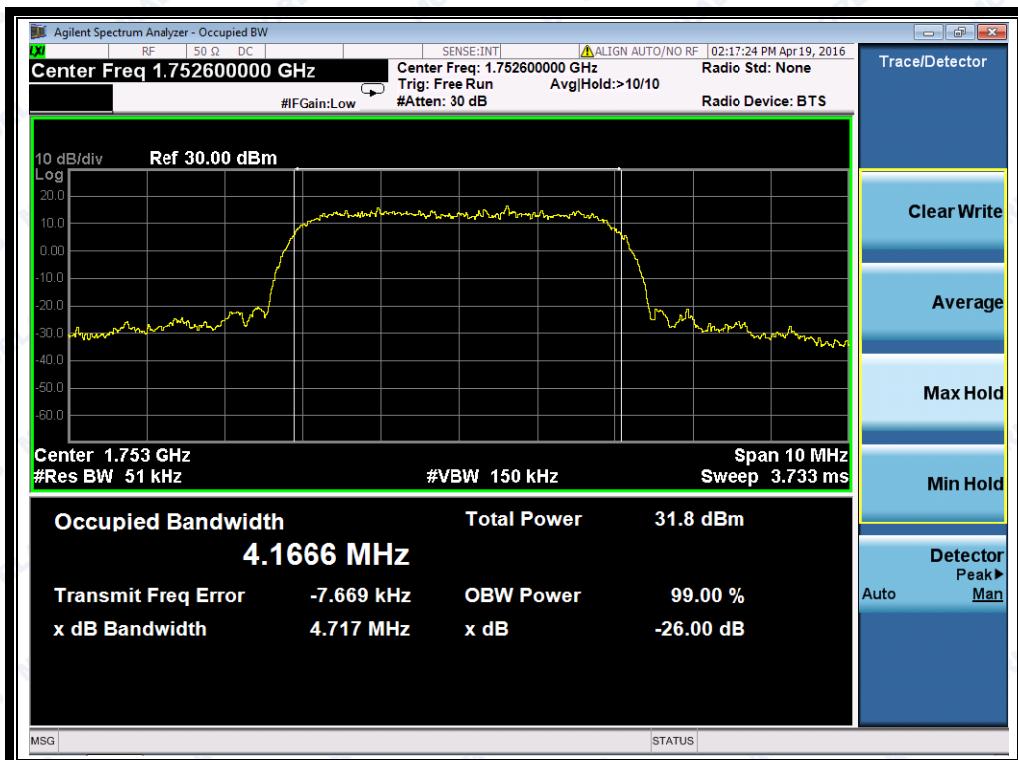
(Plot Q1: HSPA+ 1700MHz Channel =1312)



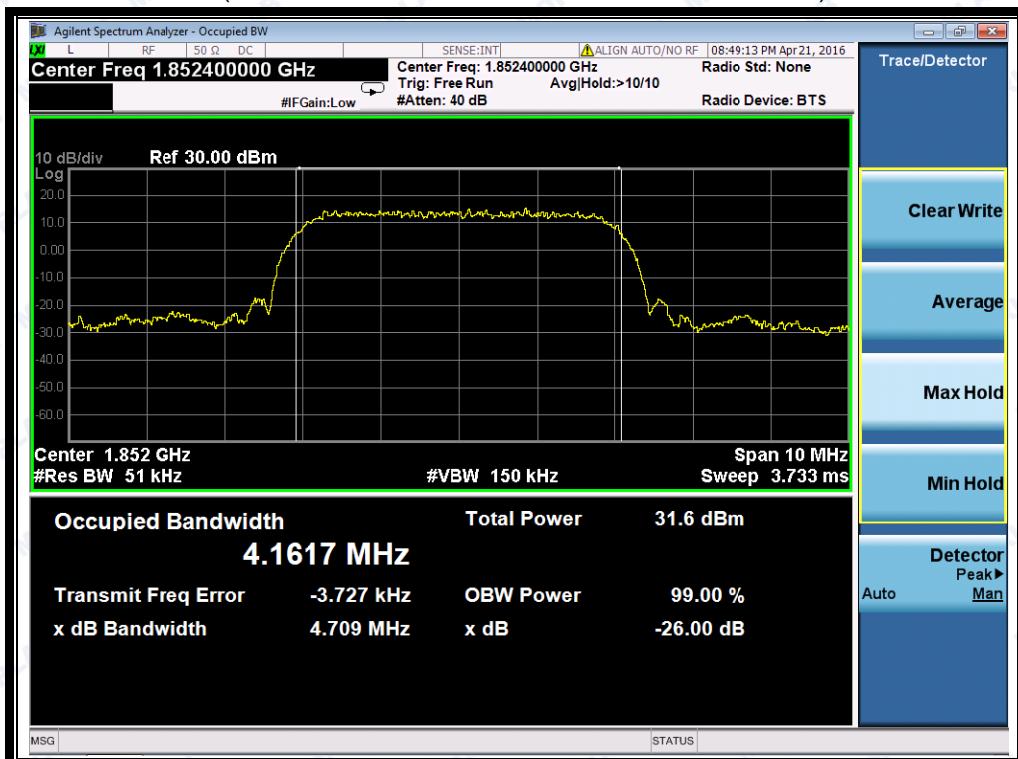
(Plot Q2: HSPA+ 1700 MHz Channel = 1412)



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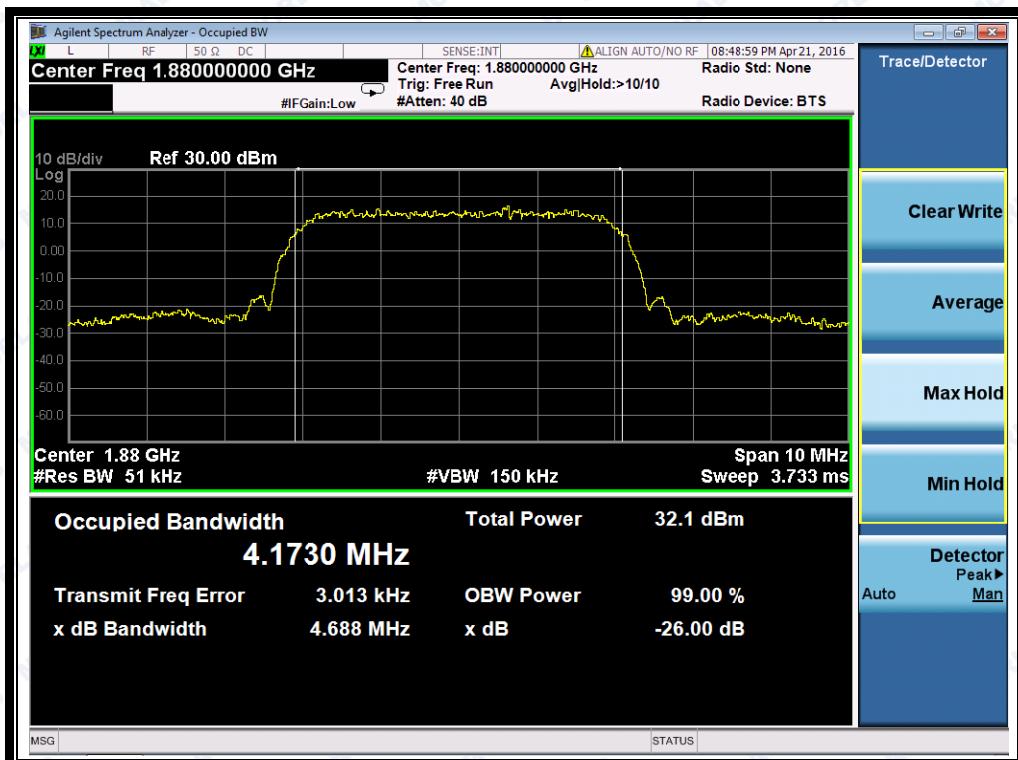
(Plot Q3: HSPA+ 1700MHz Channel = 1513)



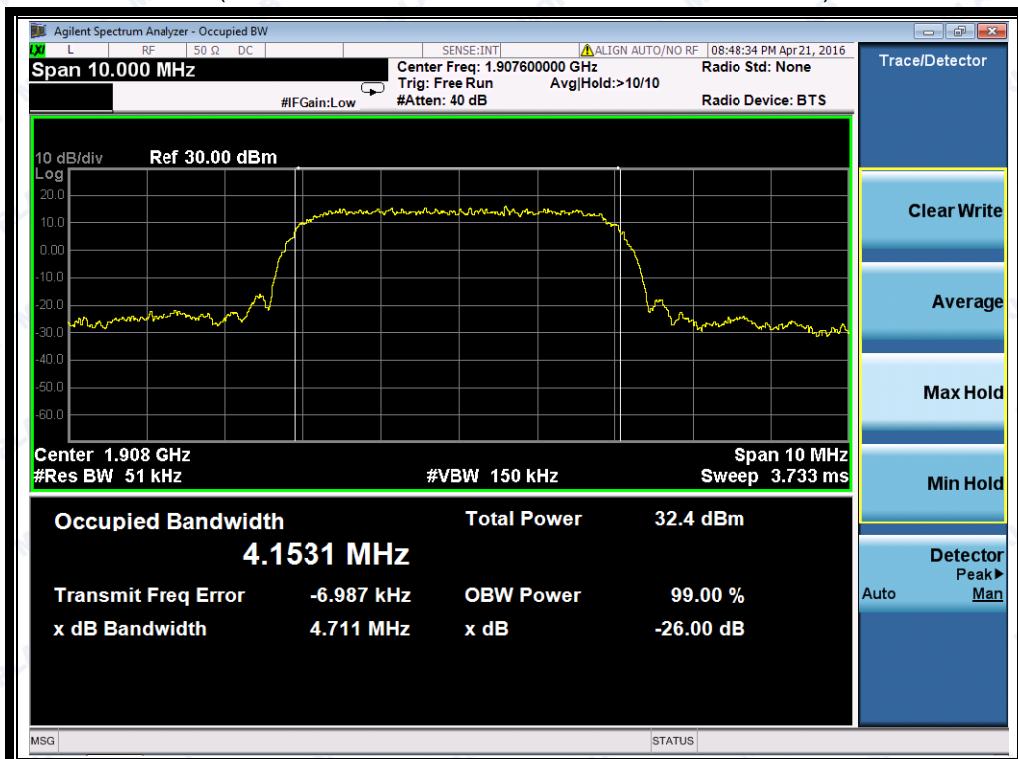
(Plot R1: HSPA+ 1900MHz Channel = 9262)



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(Plot R2: HSPA+ 1900 MHz Channel = 9400)



(Plot R3: HSPA+ 1900MHz Channel = 9538)



## 2.4 Frequency Stability

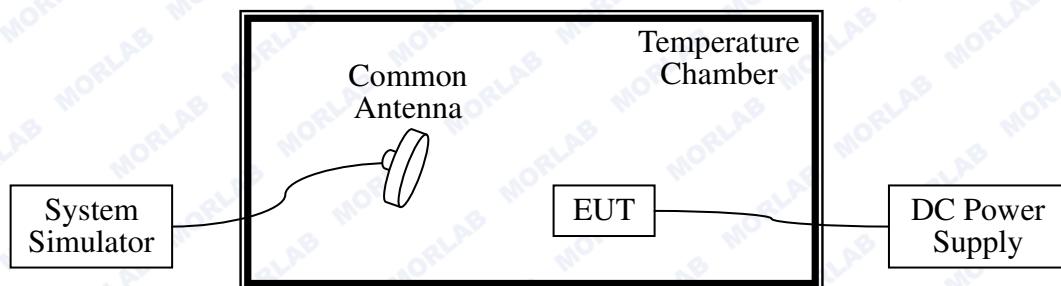
### 2.4.1 Requirement

According to FCC section 22.355 and FCC section 24.235, 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 manufacturer. 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

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.

Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
System Simulator	Agilent	E5515C	GB43130131	2016.03.02	2017.03.01
DC Power Supply	Good Will	GPS-3030DD	EF920938	2016.03.02	2017.03.01
Temperature Chamber	YinHe Experimental Equip.	HL4003T	(n.a.)	2016.03.02	2017.03.01



### 2.4.3 Test Verdict

The nominal, highest and lowest extreme voltages are separately 3.8VDC, 4.2VDC and 3.45VDC, which are specified by the applicant; the normal temperature here used is 25°C. The frequency deviation limit of 850MHz band is  $\pm 2.5\text{ppm}$ , and 1900MHz is  $\pm 1\text{ppm}$ .

#### 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		
3.80	-20	8.74	$\pm 2060.5$	8.51	$\pm 2091.5$	-9.16	$\pm 2122$	PASS	
	-10	-13.89		7.39		12.68			
	0	-9.38		7.47		-16.46			
	+10	4.77		11.59		24.27			
	+20	-4.72		4.61		25.68			
	+30	8.7		10.93		-10.45			
	+40	26.67		-1.39		24.27			
	+50	-13.39		0.74		18.88			
	+60	-3.7		10.81		-9.09			
	4.35	+25		12.38		12.68			
3.40	+25	-9.38		14.61		-10.53			

#### 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		
3.80	-20	-12.52	$\pm 1850.2$	9.25	$\pm 1880.0$	-15.49	$\pm 1909.8$	PASS	
	-10	31		19.04		-1.82			
	0	-8.51		-17.3		22.9			
	+10	-14.15		-15.93		21.31			
	+20	-24.51		33.24		-13.9			
	+30	12.65		-10.28		23.9			
	+40	-14.95		-15.89		17.51			
	+50	23.17		12.44		-10.08			
	+60	16.82		19.58		11.52			
	4.35	+25		-26.34		-1.82			
3.40	+25	-18.27		9.05		22.92			



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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		
3.80	-20	12.34	±2060.5	-20.52	±2091.5	-2.58	±2122	PASS	
	-10	28.11		25.65		19.46			
	0	29		41.67		13.46			
	+10	-11.05		-19.76		0.32			
	+20	23.14		8.54		-13.51			
	+30	8.03		4.26		29.63			
	+40	-9.24		26.56		12.46			
	+50	-15.75		16.85		-13.51			
	+60	33.8		19.82		-1.58			
	4.35	+25		24.42		14.61			
3.40	+25	10.12		16.56		-38.00			

## 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		
3.80	-20	-13.92	±1850.2	17.93	±1880.0	3.36	±1909.8	PASS	
	-10	-11.41		-11.85		-25.65			
	0	12.13		43.8		-4.13			
	+10	4.13		-16.36		-21.55			
	+20	34.06		-10.41		-24.48			
	+30	-27.98		23.46		11.71			
	+40	18.34		21.34		-3.55			
	+50	-17.87		23.03		34			
	+60	25.59		-11.85		0.8			
	4.35	+25		-11.01		14.08			
3.40	+25	6.58		-10		32.36			



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## 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		
3.80	-20	28.17	±2066	10.25	±2087.5	-17.15	±2116.5	PASS	
	-10	13.68		11.17		29.72			
	0	25.68		2.11		11.12			
	+10	-10.75		-11.12		47.3			
	+20	11.28		-2.47		63.03			
	+30	9.9		12.97		-3.53			
	+40	17.52		4.97		3.57			
	+50	11.72		4.97		1.23			
	+60	14.28		-2.92		1.29			
	4.35	+25		17.24		9.53			
3.40	+25	12.65		-18.37		8.26			

## 6. 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	-13.42	±4281	-15.65	±4331	9.88	±4381.5	PASS	
	-20	30.1		-2.01		19.67			
	-10	-9.41		22.71		-16.67			
	0	-15.05		21.12		-15.3			
	+10	-25.41		-14.09		33.87			
	+20	11.75		23.71		-9.65			
	+30	-15.85		17.32		-15.26			
	+40	22.27		-10.27		13.07			
	+55	15.92		11.33		20.21			
	4.35	+25		-2.01		-25.71			
3.0	+25	-19.17		22.73		9.68			



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## 7. 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		
3.80	-20	10.21	±1852.4	-16.7	±1880	-20.08	±1907.6	PASS	
	-10	1.15		36.47		33.09			
	0	-12.08		-23.74		-27.12			
	+10	-3.43		-17.79		-21.17			
	+20	12.01		16.08		12.7			
	+30	4.01		13.96		10.58			
	+40	-3.88		1.99		-1.39			
	+50	9.29		12.27		8.89			
	+60	11.19		-19.23		-22.61			
	4.35	+25		12.27		8.89			
3.40	+25	-19.09		14.54		11.16			

## 8. 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		
3.80	-20	0.47	±2066	12.77	±2087.5	14.82	±2116.5	PASS	
	-10	-8.57		21.81		-6.7			
	0	15.38		13.27		8.56			
	+10	-36.39		4.97		11.45			
	+20	0.47		-4.07		9.6			
	+30	-8.57		19.88		6.99			
	+40	16.37		-31.89		-20.28			
	+50	-33.89		28.82		-5.87			
	+60	19.52		25.45		-16.76			
	4.35	+25		-35.35		-11.3			
3.40	+25	-18.92		23.24		12.3			



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## 9. 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	-18.05	±4281	12.87	±4331	12.65	±4381.5	PASS	
	-20	-4.41		22.66		31.4			
	-10	20.31		-13.68		-8.11			
	0	18.72		-12.31		-13.75			
	+10	-16.49		36.86		-24.11			
	+20	21.31		-6.66		13.05			
	+30	14.92		-12.27		-14.55			
	+40	-12.67		16.06		23.57			
	+55	8.93		23.2		17.22			
	4.35	+25	-4.41	-22.72		35.43			
	3.0	+25	20.33	12.67		-17.87			

## 10. 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		
3.80	-20	17.15	±1852.4	21.24	±1880	18.71	±1907.6	PASS	
	-10	20.96		-21.28		-13.5			
	0	29.69		-16.69		1.77			
	+10	-18.58		-17.17		4.22			
	+20	-15.87		-4.46		-12.1			
	+30	19.99		-15.93		-7.58			
	+40	-7.3		25.49		3.77			
	+50	12.42		-15.87		4.22			
	+60	27.09		-4.52		27.97			
	4.35	+25	27.75	4.63		-0.36			
	3.40	+25	-9.11	8.46		20.46			



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## 11. 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		
3.80	-20	5.7	±2066	34.06	±2087.5	-6.92	±2116.5	PASS	
	-10	1.02		29.62		5.53			
	0	-6.74		9.11		5.88			
	+10	14.39		3.8		19.69			
	+20	-3.75		-3.24		-9.38			
	+30	21.53		17.71		-5.92			
	+40	-2.37		-0.06		5.43			
	+50	-13.84		24.65		7.02			
	+60	-7.9		15.28		-2.07			
	4.35	+25		-5.59		12.68			
3.40	+25	-18.77		23.07		3.04			

## 12. 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	16.17	±4281	-14.96	±4331	-16	±4381.5	PASS	
	-20	25.96		28.56		-2.36			
	-10	-10.38		-10.95		22.36			
	0	-9.01		-16.59		20.77			
	+10	40.16		-26.95		-14.44			
	+20	-3.36		10.21		23.36			
	+30	-8.97		-17.39		16.97			
	+40	19.36		20.73		-10.62			
	+55	26.5		14.38		10.98			
	4.35	+25		32.59		-2.36			
3.0	+25	15.97		-20.71		22.38			



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## 13. 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		
3.80	-20	12.48	±1852.4	9.32	±1880	26.79	±1907.6	PASS	
	-10	-19.65		23.19		22.35			
	0	-14.11		31.78		1.84			
	+10	-2.76		-12.55		-3.47			
	+20	-2.31		-10.14		-10.51			
	+30	-8.96		16.12		10.44			
	+40	21.93		-11.17		-7.33			
	+50	7.31		8.55		17.38			
	+60	21.44		23.22		8.01			
	4.35	+25		23.88		-12.86			
3.40	+25	2.73		-13.03		15.8			

## 14. 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		
3.80	-20	-7.78	±2066	7.57	±2087.5	1.54	±2116.5	PASS	
	-10	17.94		-19.85		-10.65			
	0	10.6		16.82		-15.09			
	+10	-14.98		-6.31		-10.58			
	+20	6.83		18.41		3.57			
	+30	-8.58		16.82		-5.92			
	+40	30.54		-18.31		7.5			
	+50	4.59		19.41		25.47			
	+60	-29.65		13.02		-14.59			
	4.35	+25		-13.58		-4.9			
3.40	+25	-6.14		7.33		14.35			



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## 15. 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	12.62	±4281	-15.32	±4331	-19.19	±4381.5	PASS	
	-20	22.41		28.2		-5.55			
	-10	-13.93		-11.31		19.17			
	0	-12.56		-16.95		17.58			
	+10	36.61		-27.31		-17.63			
	+20	-6.91		9.85		20.17			
	+30	-12.52		-17.75		13.78			
	+40	15.81		20.37		-13.81			
	+55	22.95		14.02		7.79			
	4.35	+25	-22.97	32.23		-5.55			
3.0	+25	12.42		-21.07		19.19			

## 16. 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		
3.80	-20	25.86	±1852.4	7.77	±1880	-18.15	±1907.6	PASS	
	-10	-10.16		8.37		-7.74			
	0	20.05		14.53		42.45			
	+10	12.28		31.41		-1.09			
	+20	-15.35		-21		-6.73			
	+30	8.18		28.19		-17.15			
	+40	-2.09		-15.35		20.1			
	+50	16.54		-20.99		-7.53			
	+60	-24.21		19.33		30.59			
	4.35	+25	29.43	0.88		15.15			
3.40	+25	17.91		-4.26		-24.99			



## 2.5 Conducted Out of Band Emissions

### 2.5.1 Requirement

According to FCC section 22.917(a) and FCC section 24.238(a) 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 10<sup>th</sup> harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the out of band emissions.

#### 1. Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
System Simulator	Agilent	E5515C	GB43130131	2016.03.02	2017.03.01
Spectrum Analyzer	Agilent	E7405A	US44210471	2016.03.02	2017.03.01
Power Meter	Agilent	E4418B	GB43318055	2016.03.02	2017.03.01
Power Sensor	Agilent	8482A	MY41091706	2016.03.02	2017.03.01
Power Splitter	Weinschel	1506A	NW521	2016.03.02	2017.03.01
Attenuator 1	Resnet	20dB	(n.a.)	2016.03.02	2017.03.01
Attenuator 2	Resnet	3dB	(n.a.)	2016.03.02	2017.03.01

#### 2. Test Verdict:

Band	Channel	Frequency (MHz)	Measured Max. Spurious Emission (dBm)	Refer to Plot	Limit (dBm)	Verdict
GSM 850MHz	128	824.2	-25.10	Plot A1 to A1.1	-13	PASS
	190	836.6	-26.40	Plot A2 to A2.1		PASS
	251	848.8	-25.41	Plot A3 to A3.1		PASS
GSM 1900MHz	512	1850.2	-20.59	Plot B1 to B1.1	-13	PASS
	661	1880.0	-21.43	Plot B2 to B2.1		PASS
	810	1909.8	-21.33	Plot B3 to B3.1		PASS
EGPRS 850MHz	128	824.2	-25.13	Plot E1 to E1.1	-13	PASS
	190	836.6	-24.51	Plot E2 to E2.1		PASS
	251	848.8	-25.79	Plot E3 to E3.1		PASS
EGPRS 1900MHz	512	1850.2	-21.23	Plot F1 to F1.1	-13	PASS
	661	1880.0	-20.72	Plot F2 to F2.1		PASS
	810	1909.8	-20.37	Plot F3 to F3.1		PASS



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Band	Channel	Frequency (MHz)	Measured Max. Spurious Emission (dBm)	Refer to Plot	Limit (dBm)	Verdict
WCDMA 850MHz	4132	826.4	< -25	Plot G1 to G1.1	-13	PASS
	4175	835.0	< -25	Plot G2 to G2.1		PASS
	4233	846.6	< -25	Plot G3 to G3.1		PASS
WCDMA 1700MHz	1312	1712.4	< -25	Plot H1 to H1.1	-13	PASS
	1412	1732.4	< -25	Plot H2 to H2.1		PASS
	1513	1752.6	< -25	Plot H3 to H3.1		PASS
WCDMA 1900MHz	9262	1852.4	< -25	Plot I1 to I1.1	-13	PASS
	9400	1880.0	< -25	Plot I2 to I2.1		PASS
	9538	1907.6	< -25	Plot I3 to I3.1		PASS
HSDPA 850MHz	4132	826.4	< -25	Plot J1 to J1.1	-13	PASS
	4175	835.0	< -25	Plot J2 to J2.1		PASS
	4233	846.6	< -25	Plot J3 to J3.1		PASS
HSDPA 1700MHz	1312	1712.4	< -25	Plot K1 to K1.1	-13	PASS
	1412	1732.4	< -25	Plot K2 to K2.1		PASS
	1513	1752.6	< -25	Plot K3 to K3.1		PASS
HSDPA 1900MHz	9262	1852.4	< -25	Plot L1 to L1.1	-13	PASS
	9400	1880.0	< -25	Plot L2 to L2.1		PASS
	9538	1907.6	< -25	Plot L3 to L3.1		PASS
HSUPA 850MHz	4132	826.4	< -25	Plot M1 to M1.1	-13	PASS
	4175	835.0	< -25	Plot M2 to M2.1		PASS
	4233	846.6	< -25	Plot M3 to M3.1		PASS
HSUPA 1700MHz	1312	1712.4	< -25	Plot N1 to N1.1	-13	PASS
	1412	1732.4	< -25	Plot N2 to N2.1		PASS
	1513	1752.6	< -25	Plot N3 to N3.1		PASS
HSUPA 1900MHz	9262	1852.4	< -25	Plot O1 to M1.1	-13	PASS
	9400	1880.0	< -25	Plot O2 to M2.1		PASS
	9538	1907.6	< -25	Plot O3 to M3.1		PASS
HSPA+ 850 MHz	9262	1852.4	< -25	Plot P1 to N1.1	-13	PASS
	9400	1880.0	< -25	Plot P2 to N2.1		PASS
	9538	1907.6	< -25	Plot P3 to N3.1		PASS
HSPA+ 1700MHz	9262	1852.4	< -25	Plot Q1 to M1.1	-13	PASS
	9400	1880.0	< -25	Plot Q2 to M2.1		PASS
	9538	1907.6	< -25	Plot Q3 to M3.1		PASS

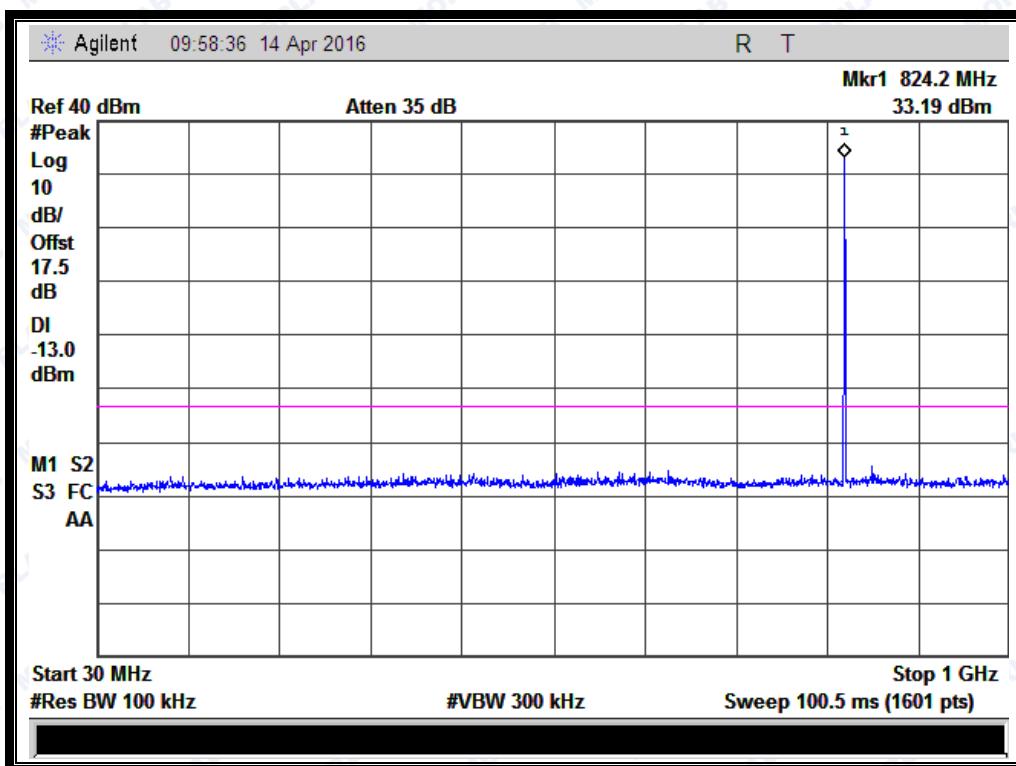


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Band	Channel	Frequency (MHz)	Measured Max. Spurious Emission (dBm)	Refer to Plot	Limit (dBm)	Verdict
HSPA+ 1900MHz	9262	1852.4	< -25	Plot R1 to N1.1		PASS
	9400	1880.0	< -25	Plot R2 to N2.1		PASS
	9538	1907.6	< -25	Plot R3 to N3.1		PASS

Test Plots for the Whole Measurement Frequency Range:

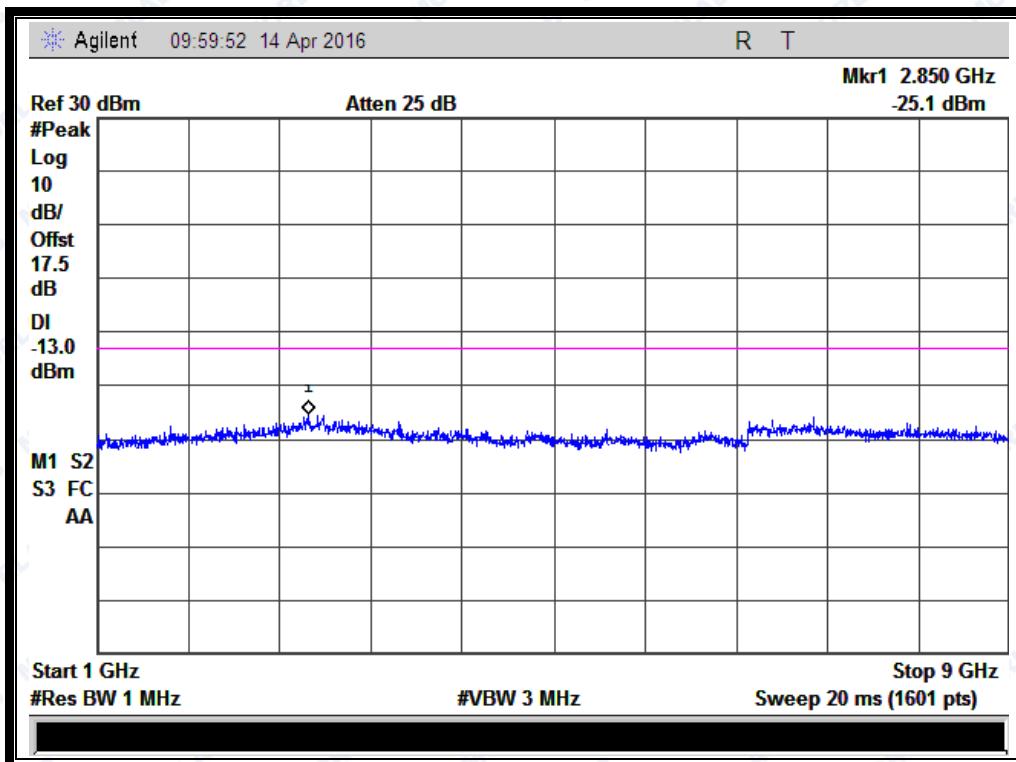
Note: the power of the EUT transmitting frequency should be ignored.



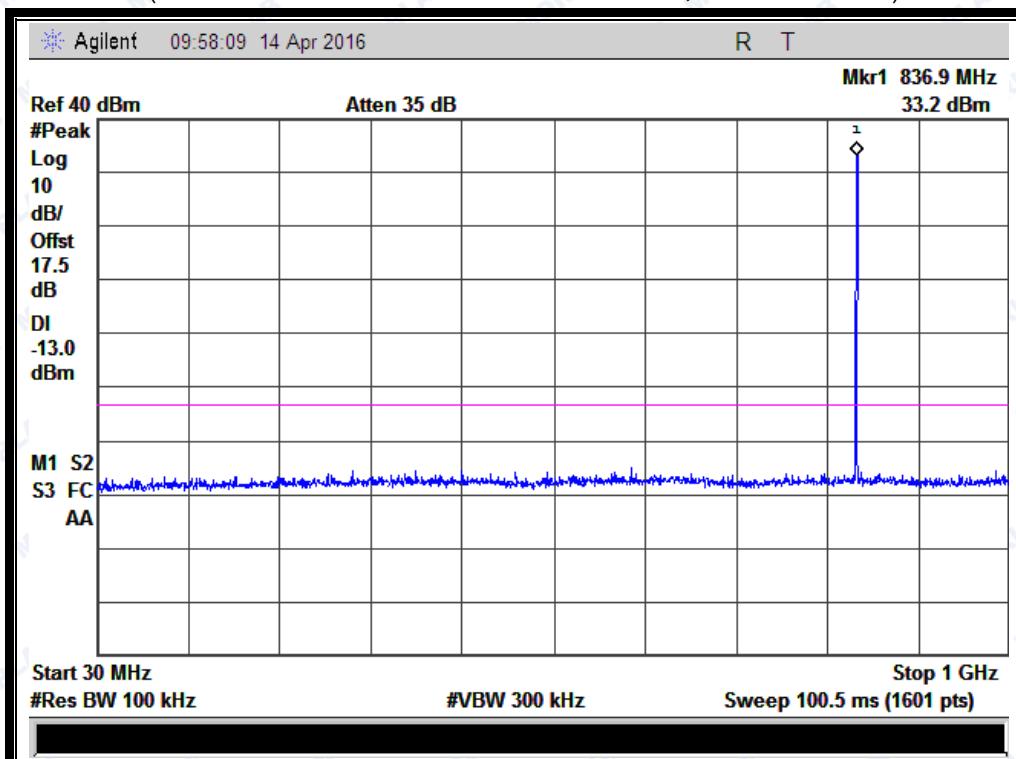
(Plot A1: GSM 850MHz Channel = 128, 30MHz to 1GHz)



REPORT No.: SZ16030142W04



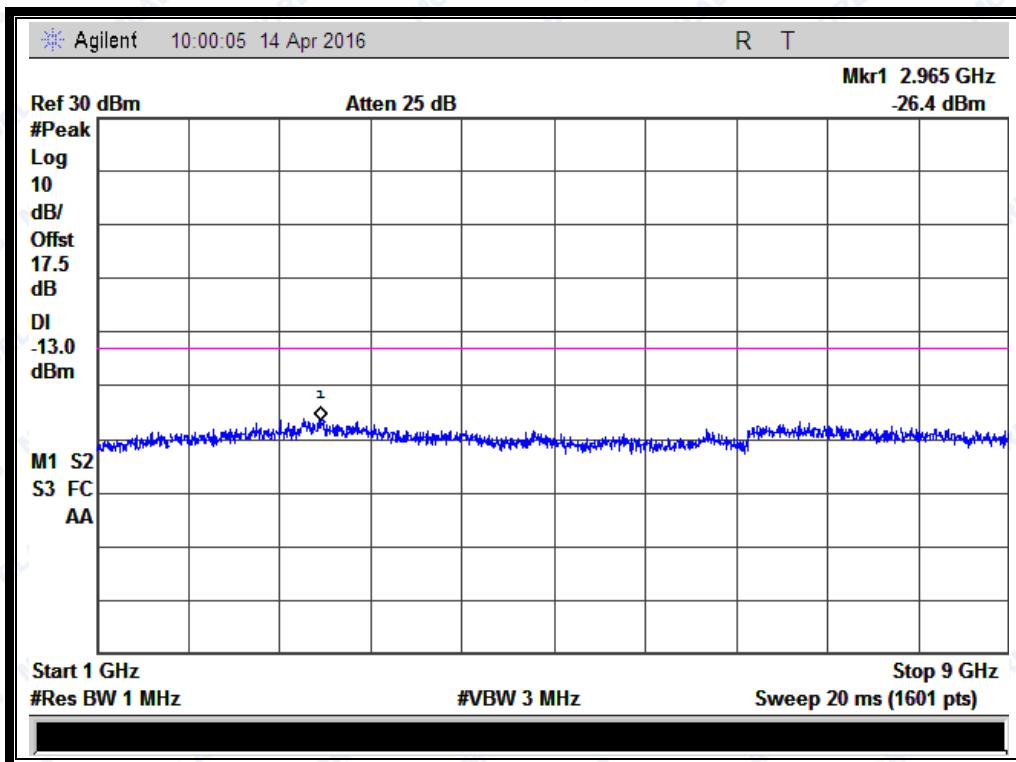
(Plot A1.1: GSM 850MHz Channel = 128, 1GHz to 9GHz)



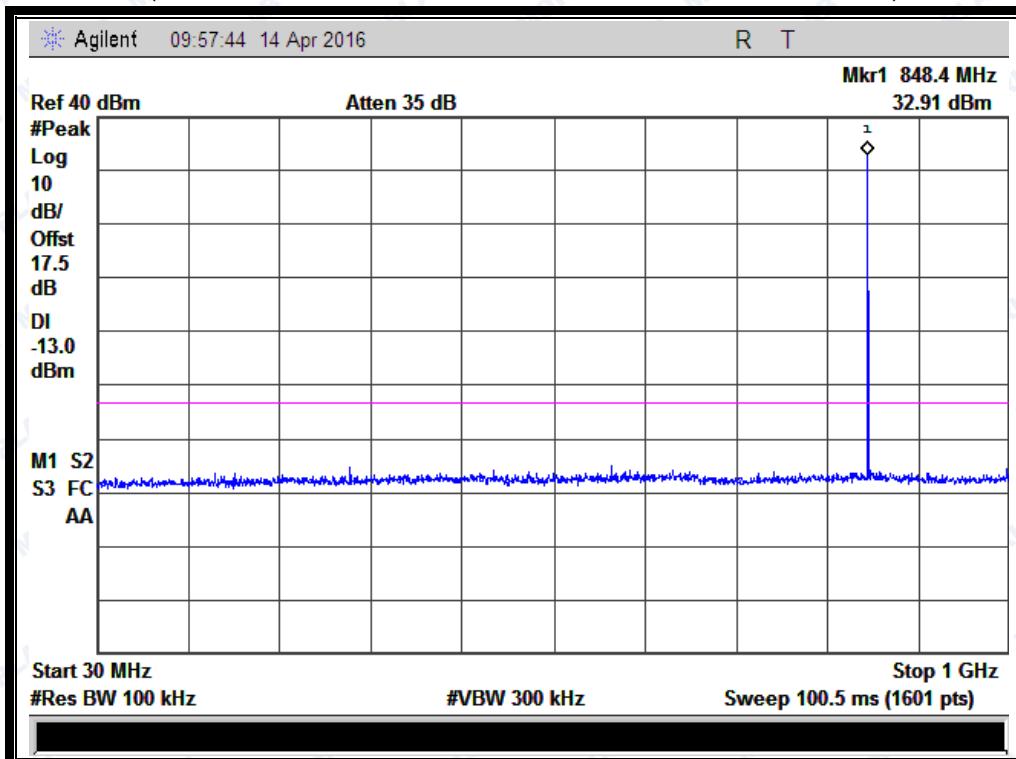
(Plot A2: GSM 850MHz Channel = 190, 30MHz to 1GHz)



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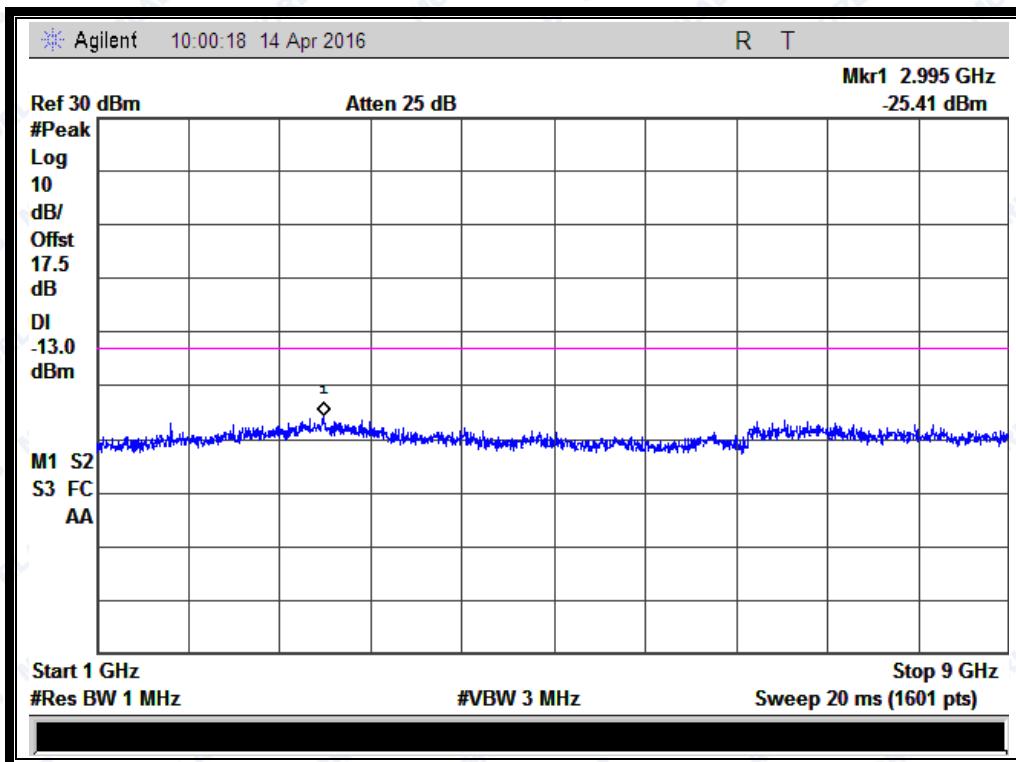
(Plot A2.1: GSM 850MHz Channel = 190, 1GHz to 9GHz)



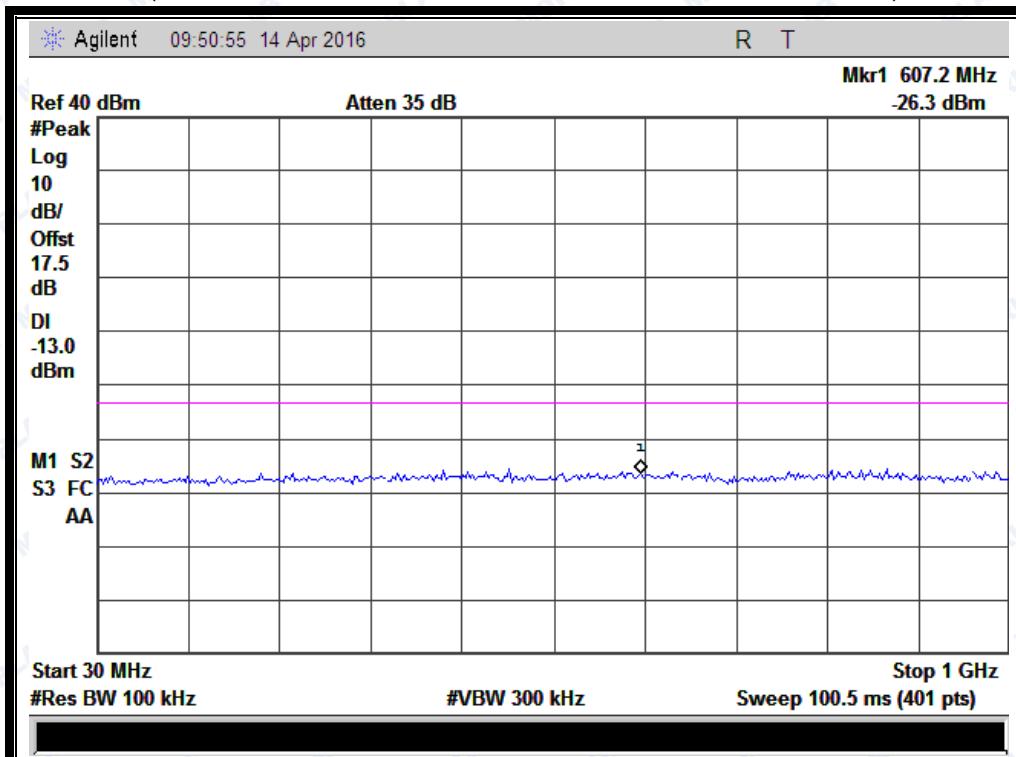
(Plot A3: GSM 850MHz Channel = 251, 30MHz to 1GHz)



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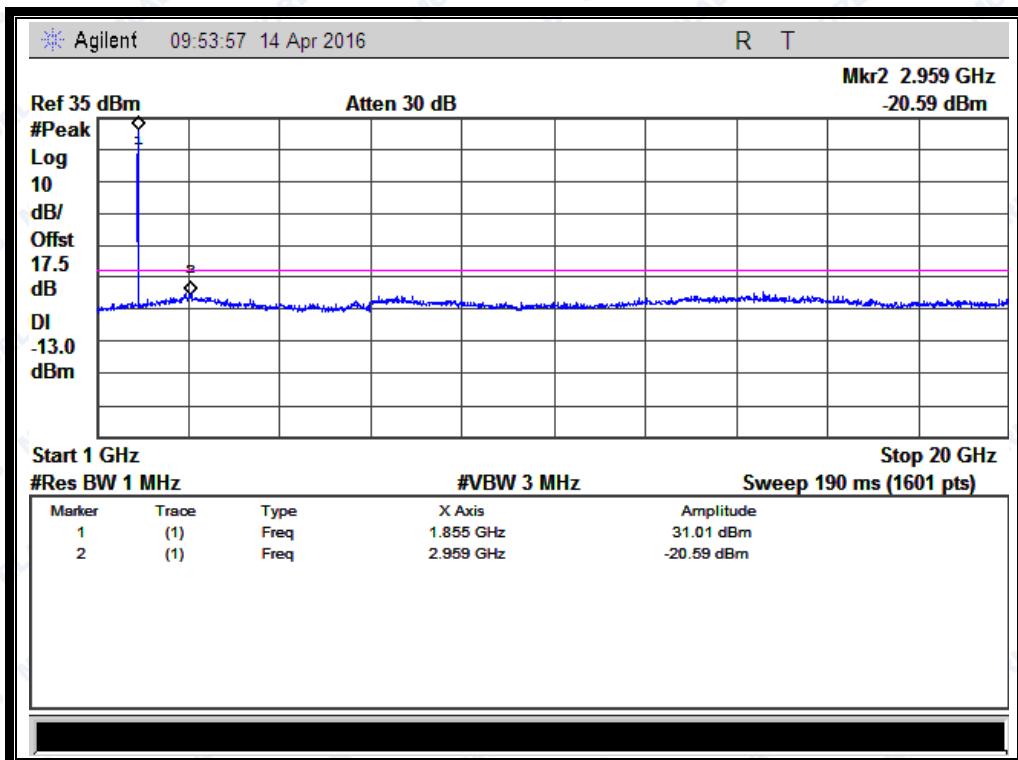
(Plot A3.1: GSM 850MHz Channel = 251, 1GHz to 9GHz)



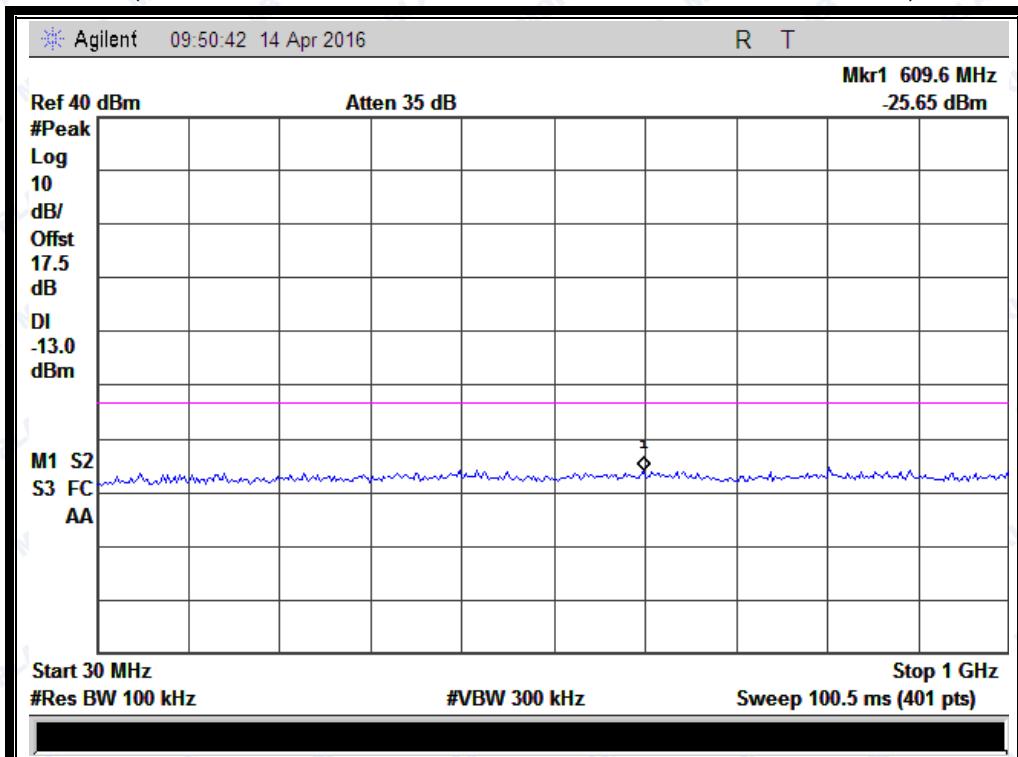
(Plot B1: GSM 1900MHz Channel = 512, 30MHz to 1GHz)



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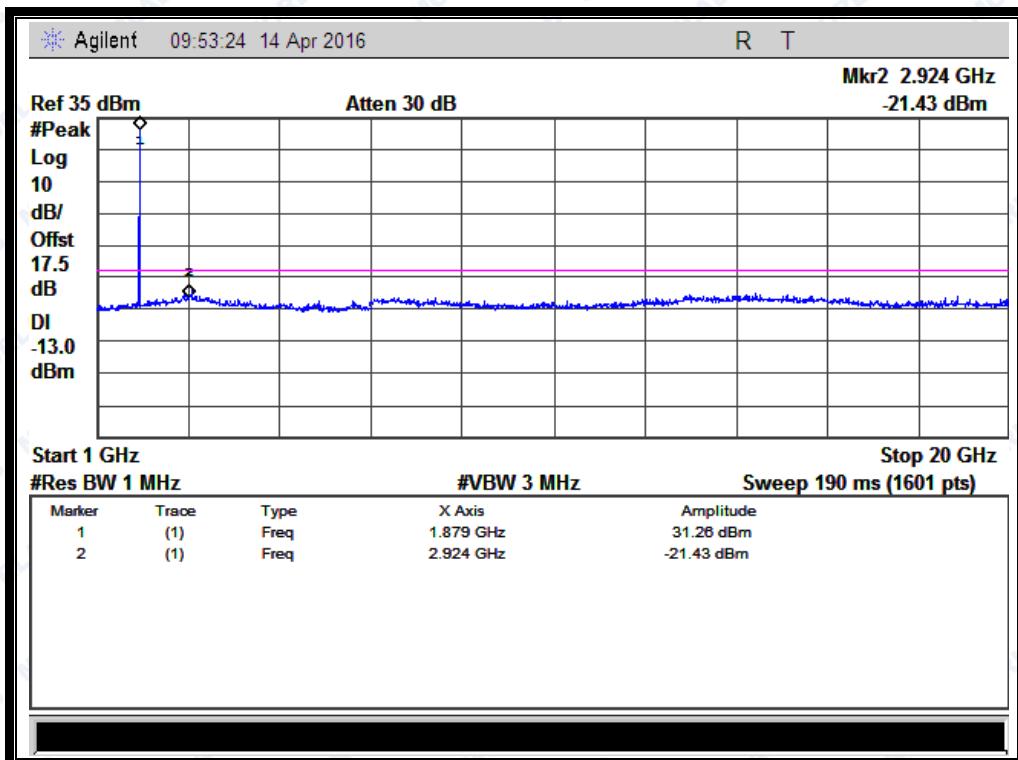
(Plot B1.1: GSM 1900MHz Channel = 512, 1GHz to 20GHz)



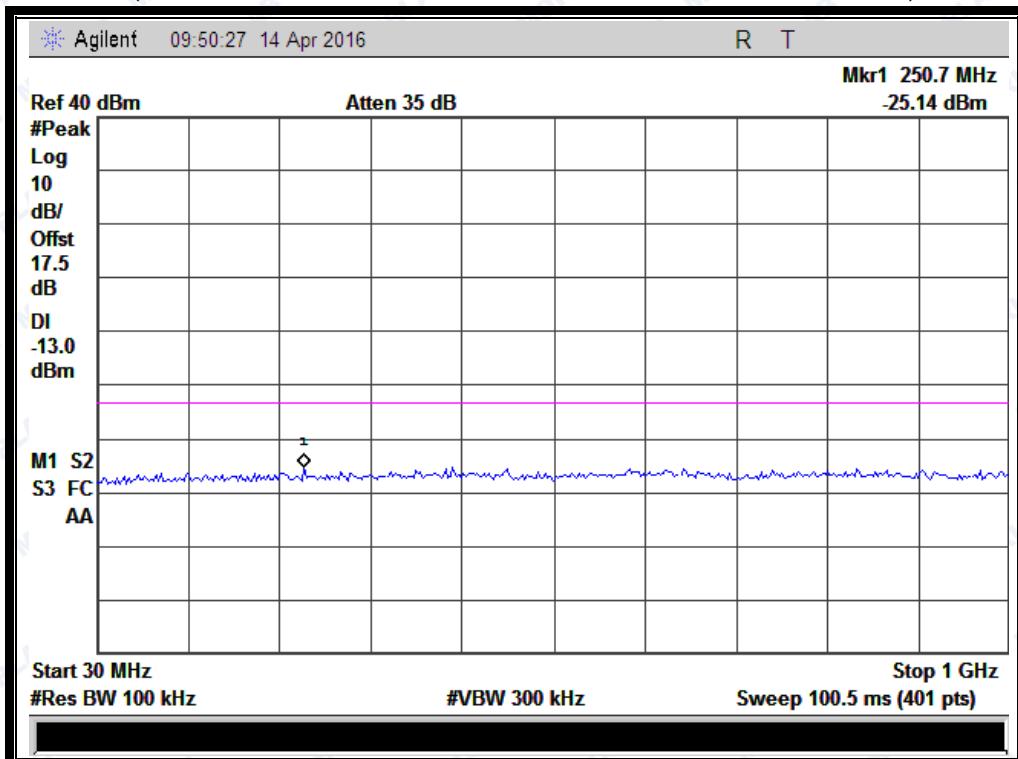
(Plot B2: GSM 1900MHz Channel = 661, 30MHz to 1GHz)



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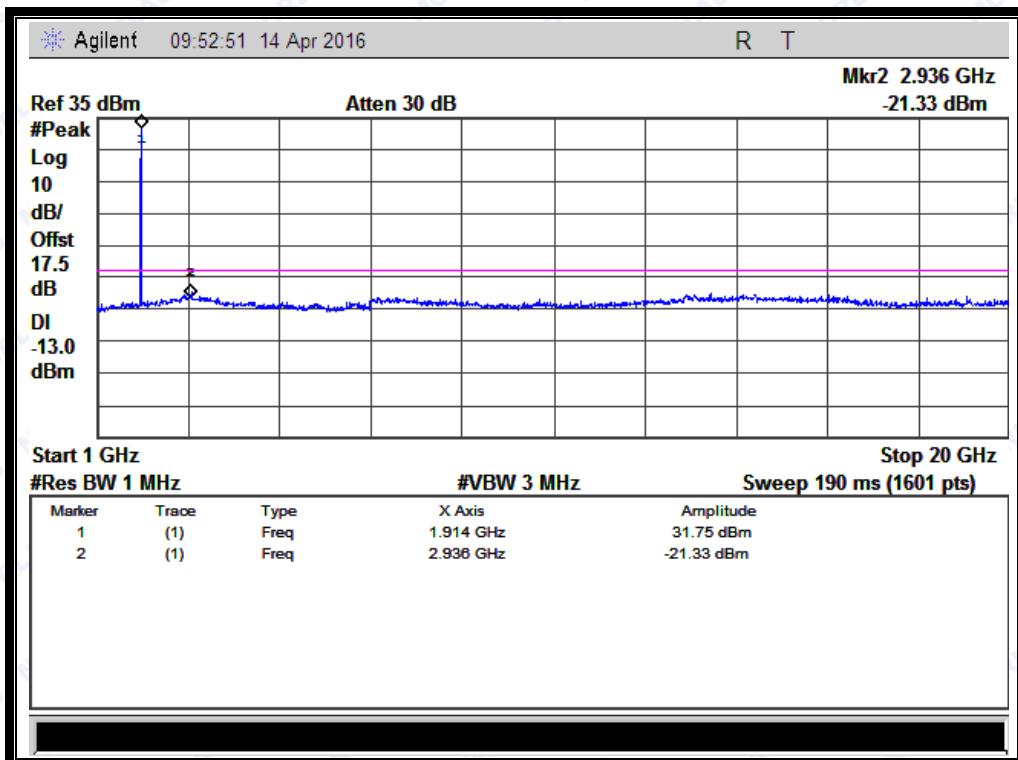
(Plot B2.1: GSM 1900MHz Channel = 661, 1GHz to 20GHz)



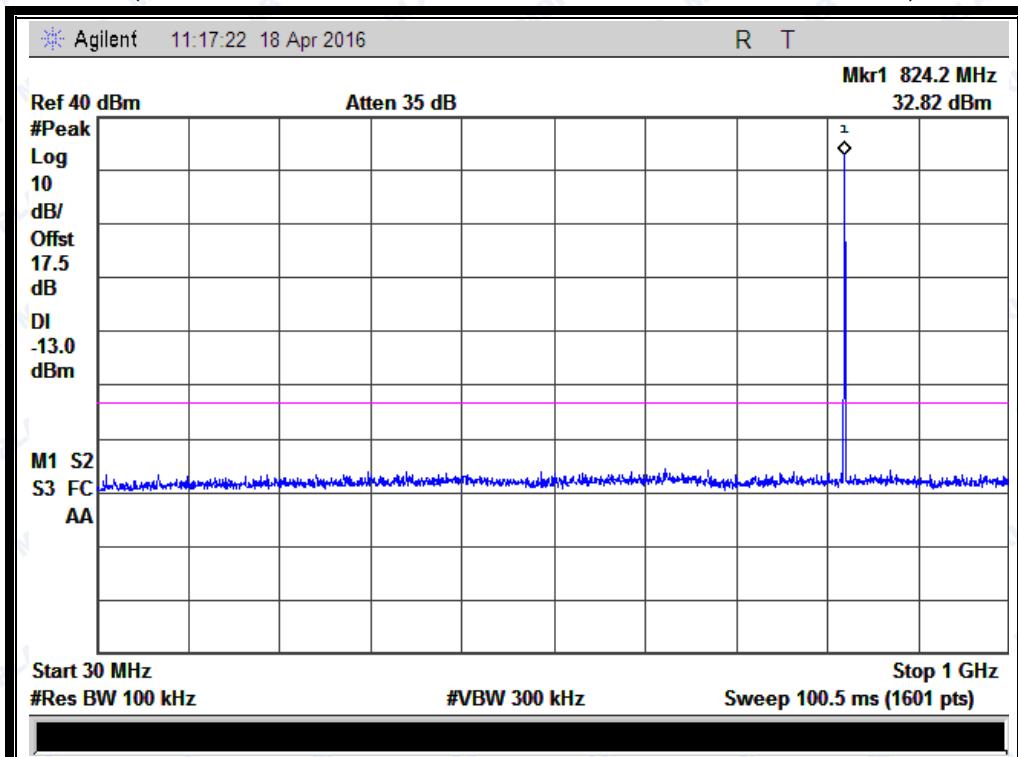
(Plot B3: GSM 1900MHz Channel = 810, 30MHz to 1GHz)



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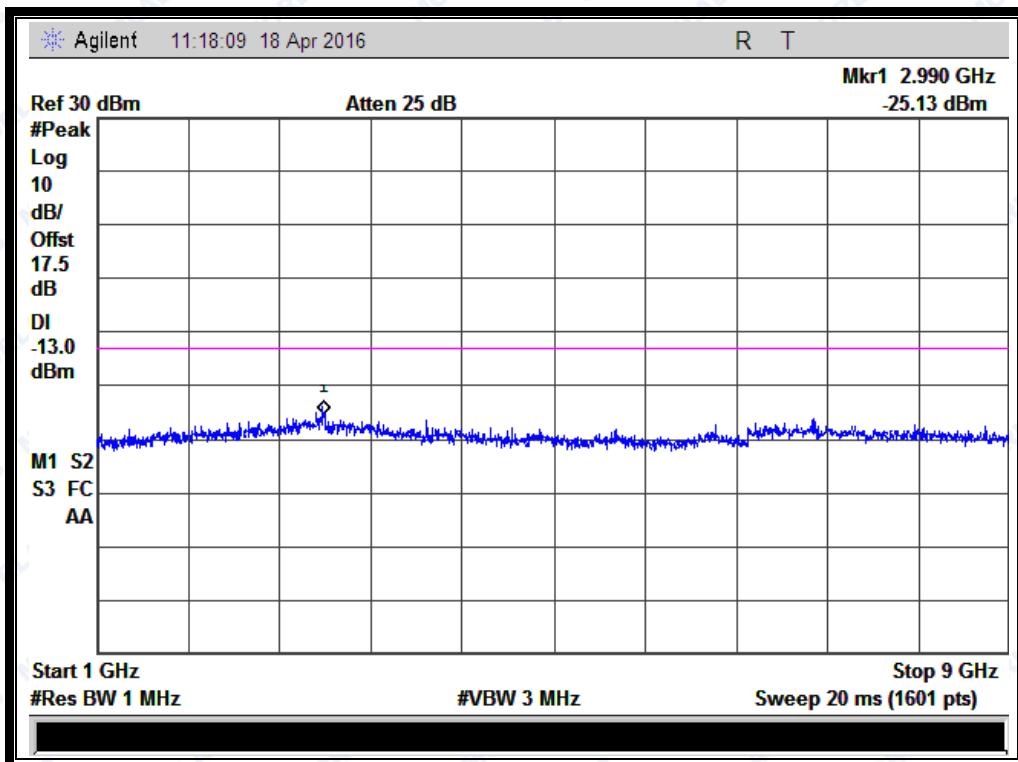
(Plot B3.1: GSM 1900MHz Channel = 810, 1GHz to 20GHz)



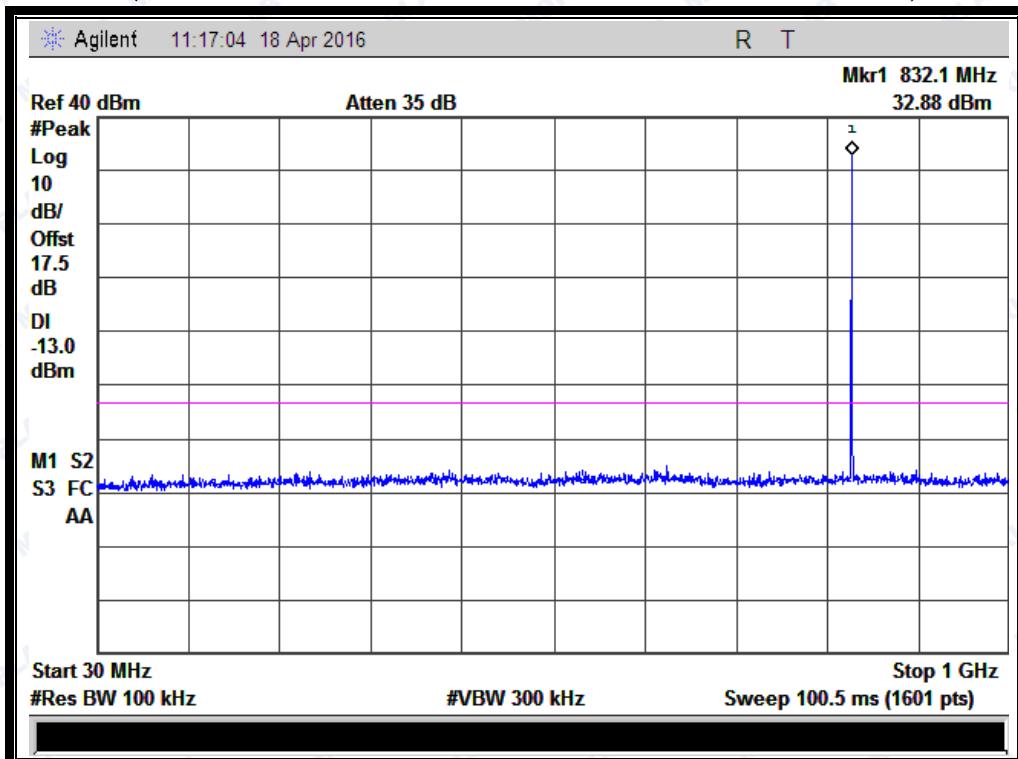
(Plot E1: EGPRS 850MHz Channel = 128, 30MHz to 1GHz)



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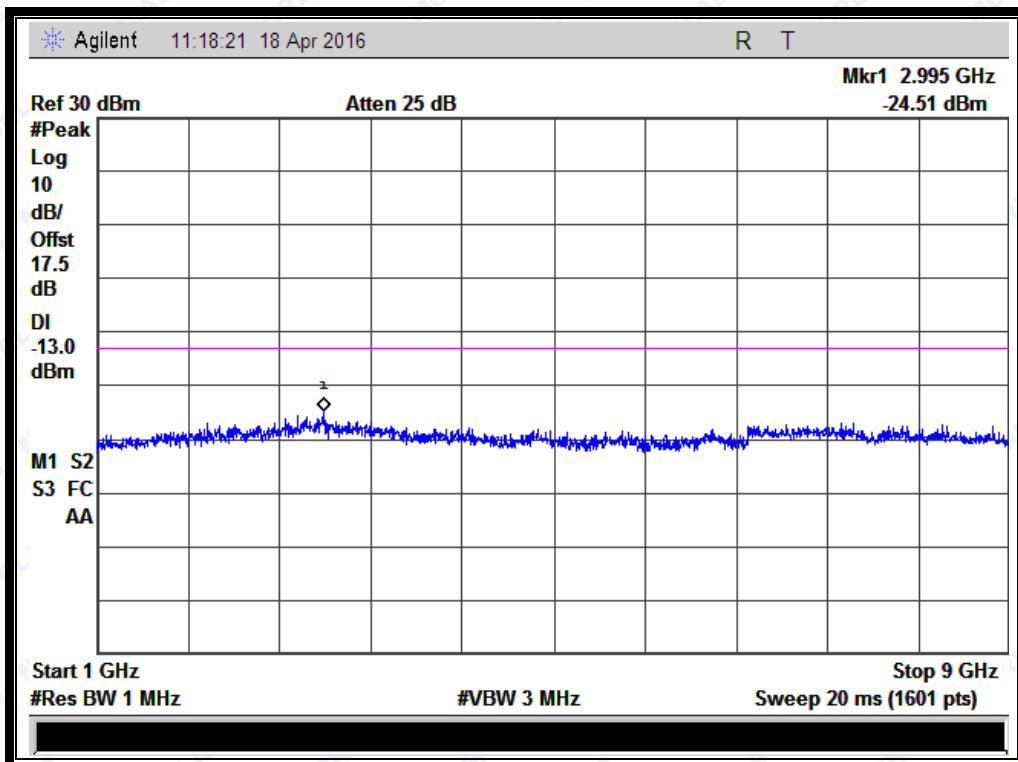
(Plot E1.1: EGPRS 850MHz Channel = 128, 1GHz to 9GHz)



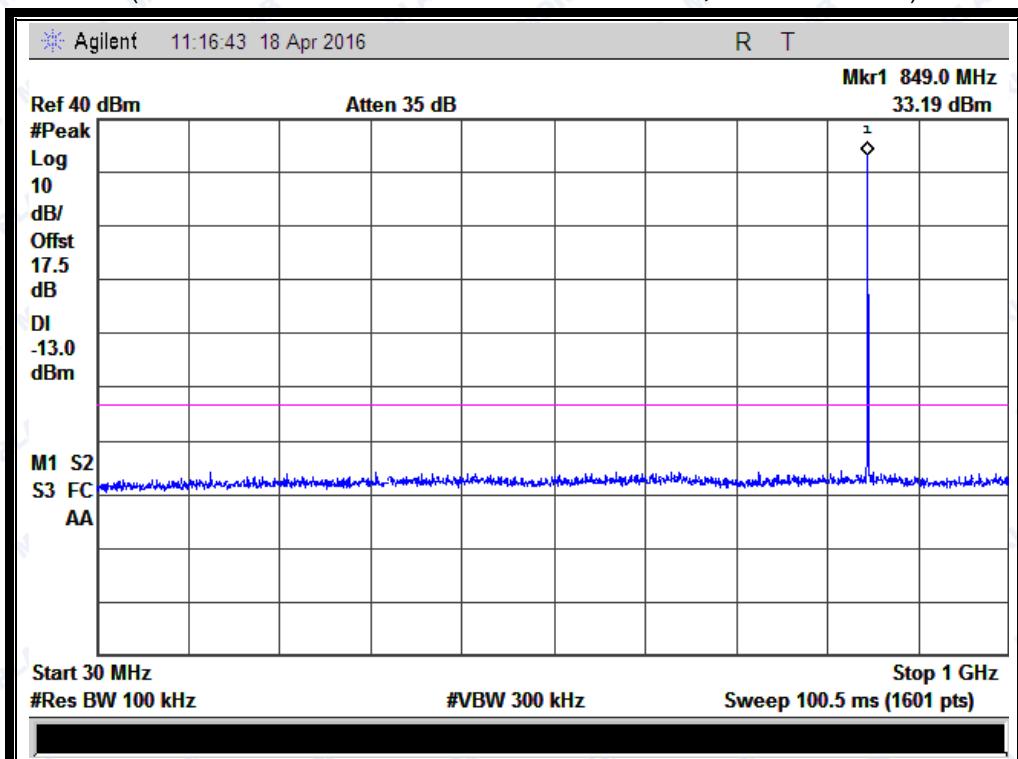
(Plot E2: EGPRS 850MHz Channel = 190, 30MHz to 1GHz)



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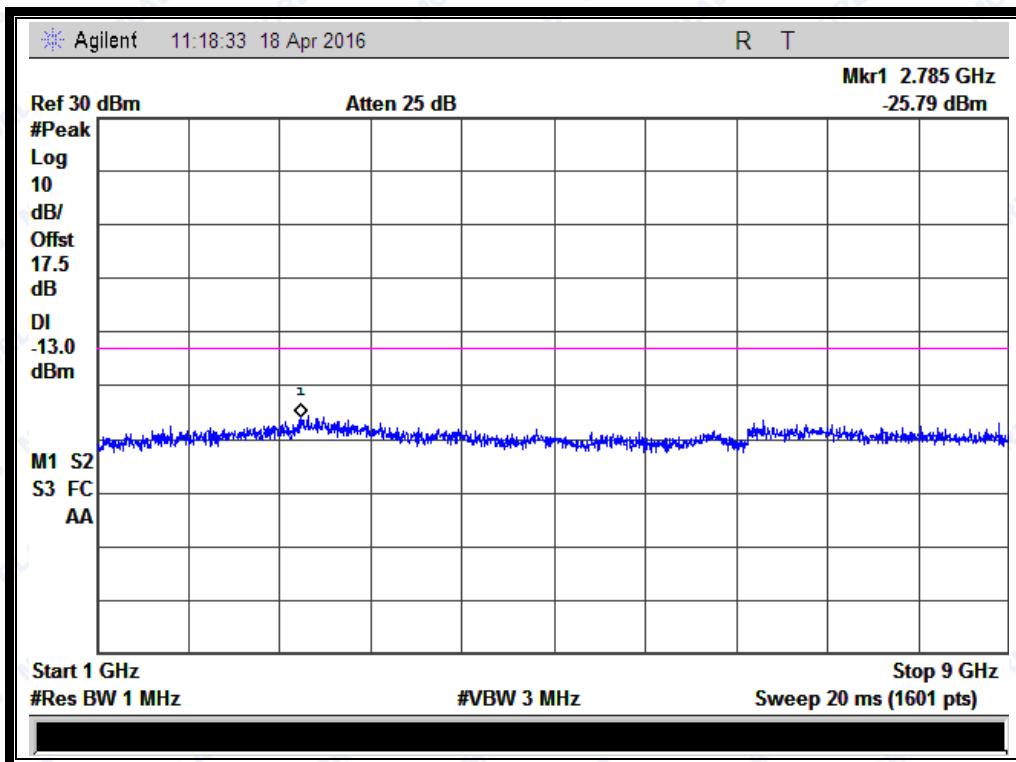
(Plot E2.1: EGPRS 850MHz Channel = 190, 1GHz to 9GHz)



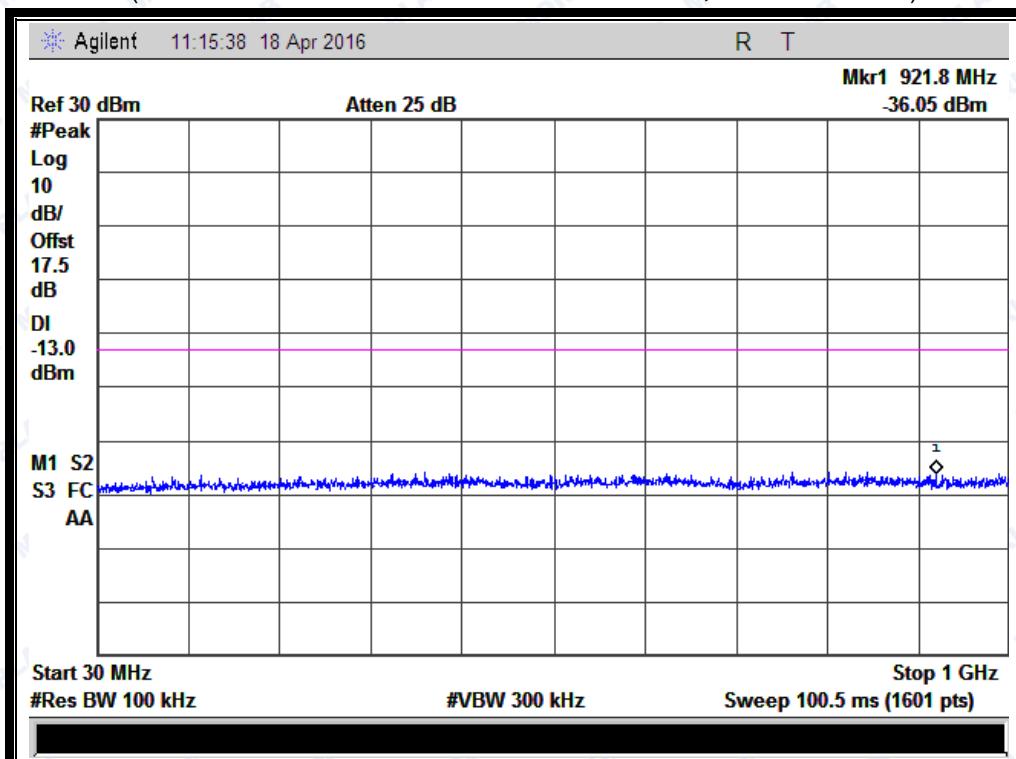
(Plot E3: EGPRS 850MHz Channel = 251, 30MHz to 1GHz)



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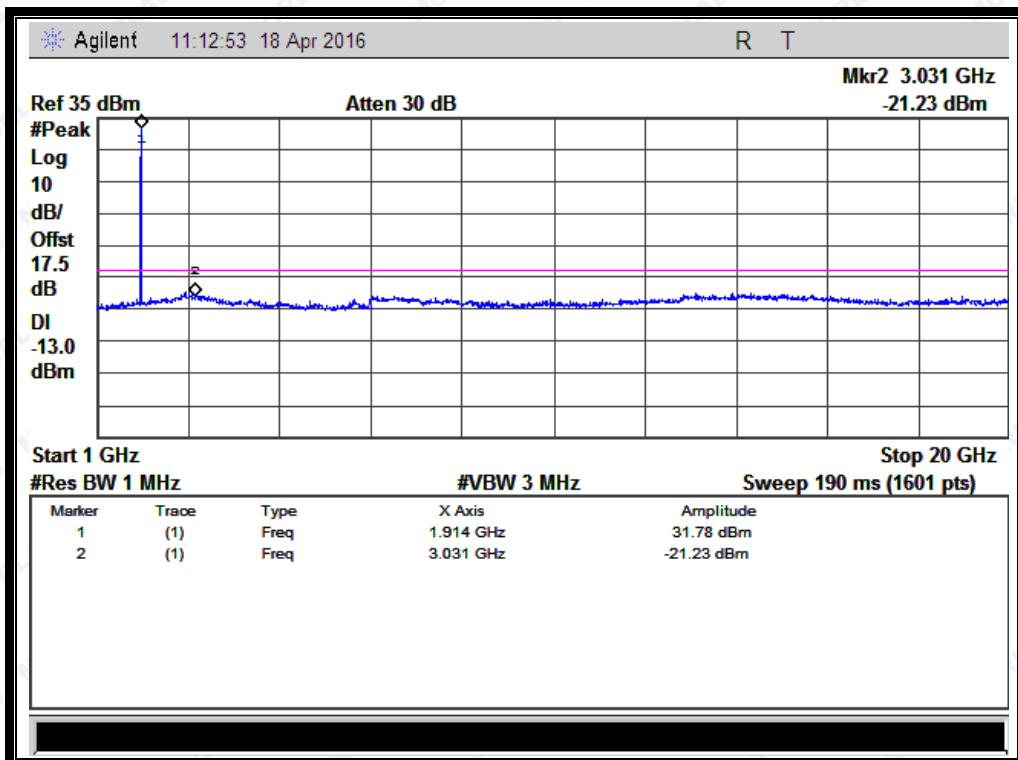
(Plot E3.1: EGPRS 850MHz Channel = 251, 1GHz to 9GHz)



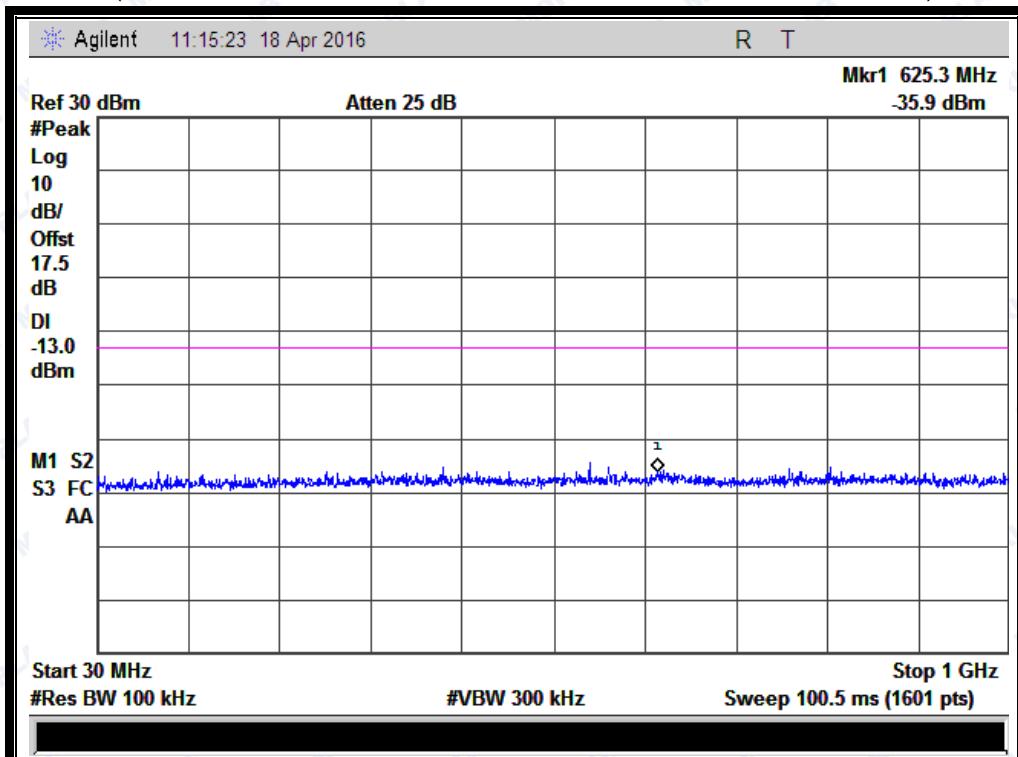
(Plot F1: EGPRS 1900MHz Channel = 512, 30MHz to 1GHz)



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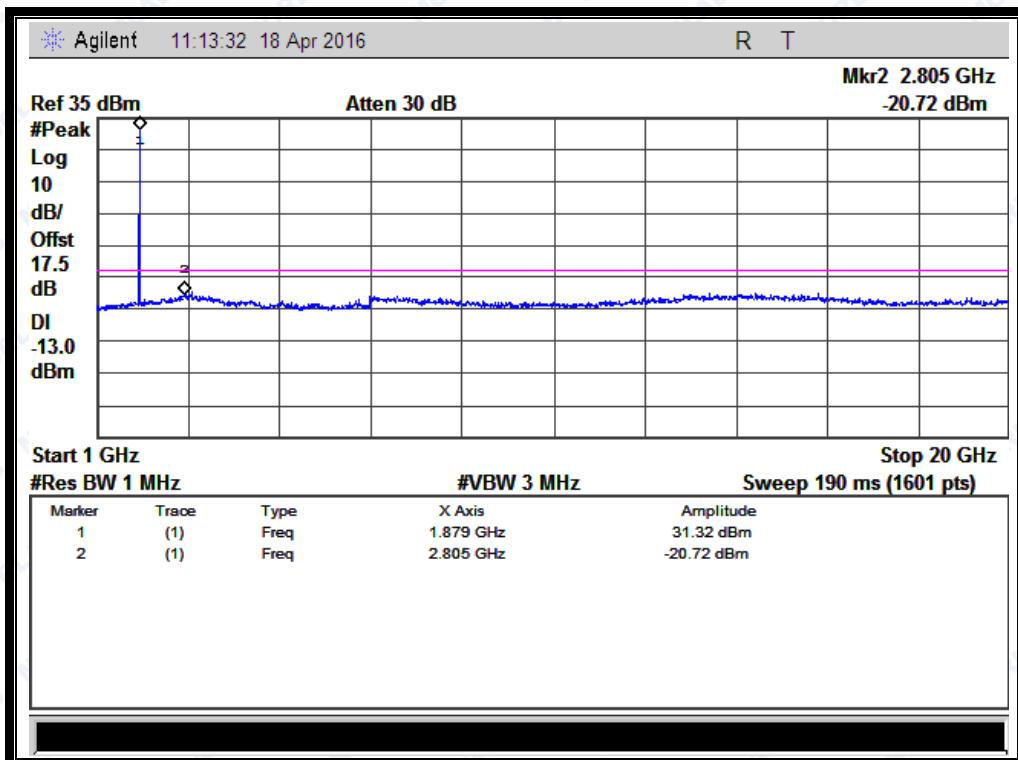
(Plot F1.1: EGPRS 1900MHz Channel = 512, 1GHz to 20GHz)



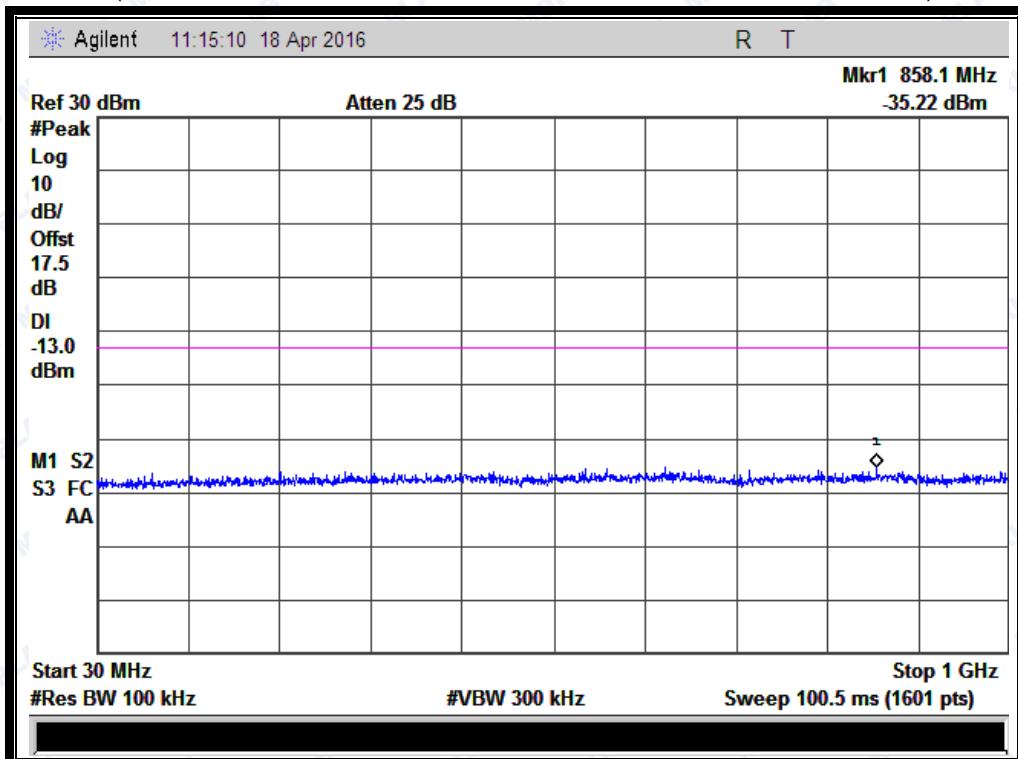
(Plot F2: EGPRS 1900MHz Channel = 661, 30MHz to 1GHz)



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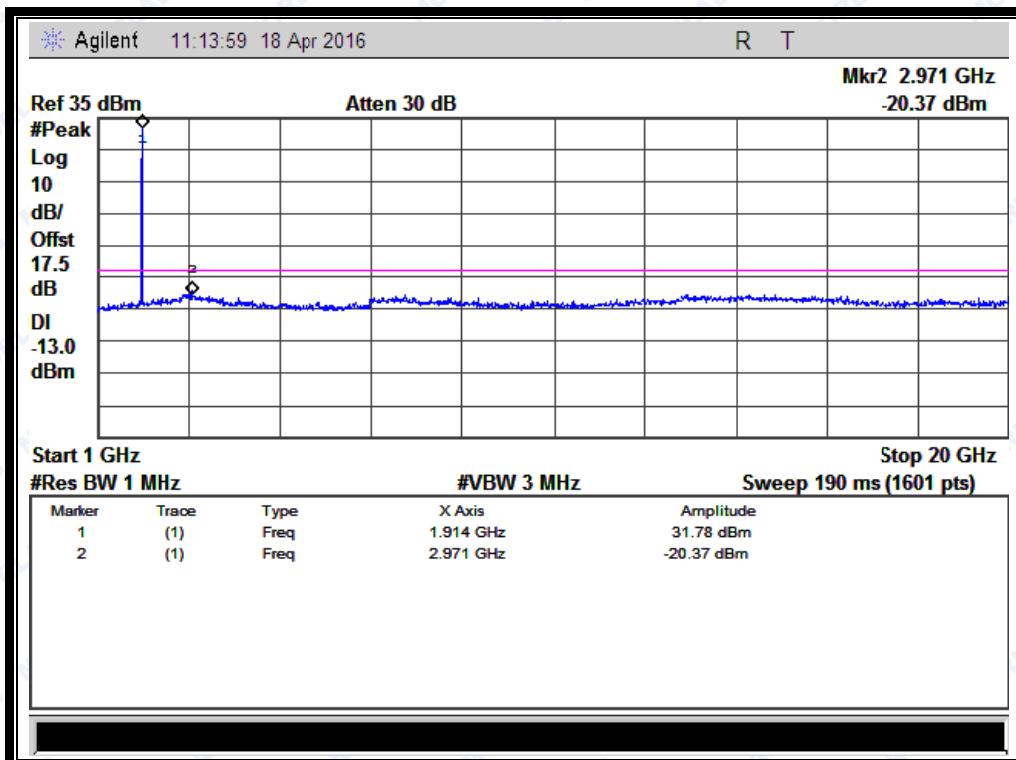
(Plot F2.1: EGPRS 1900MHz Channel = 661, 1GHz to 20GHz)



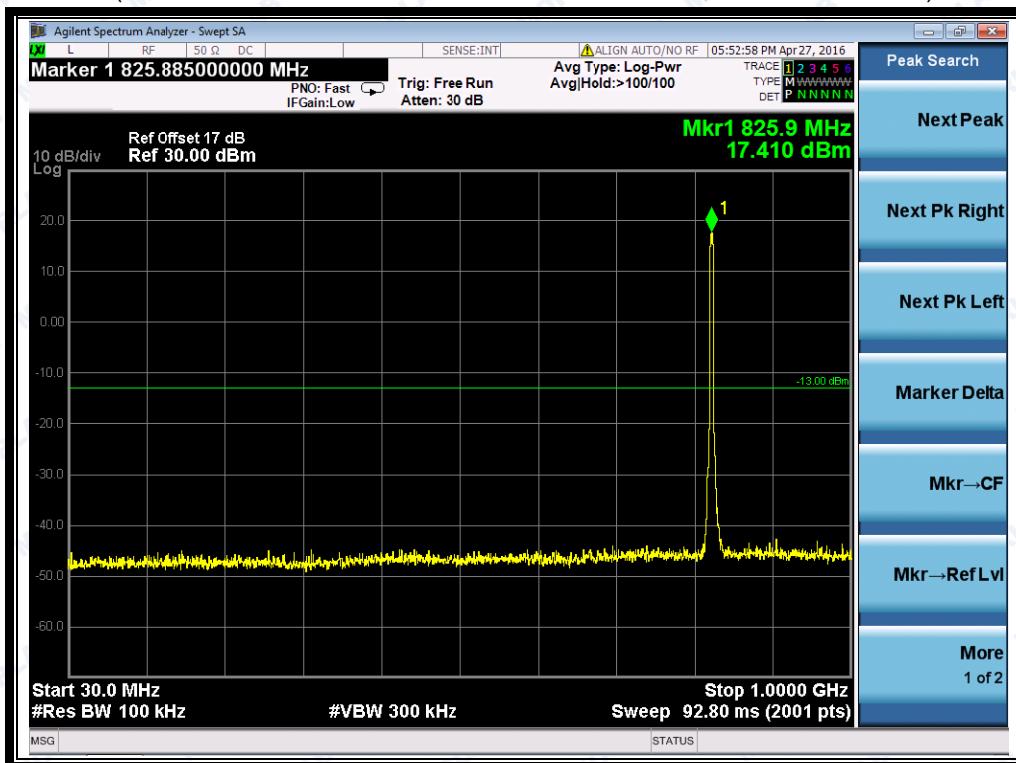
(Plot F3: EGPRS 1900MHz Channel = 810, 30MHz to 1GHz)



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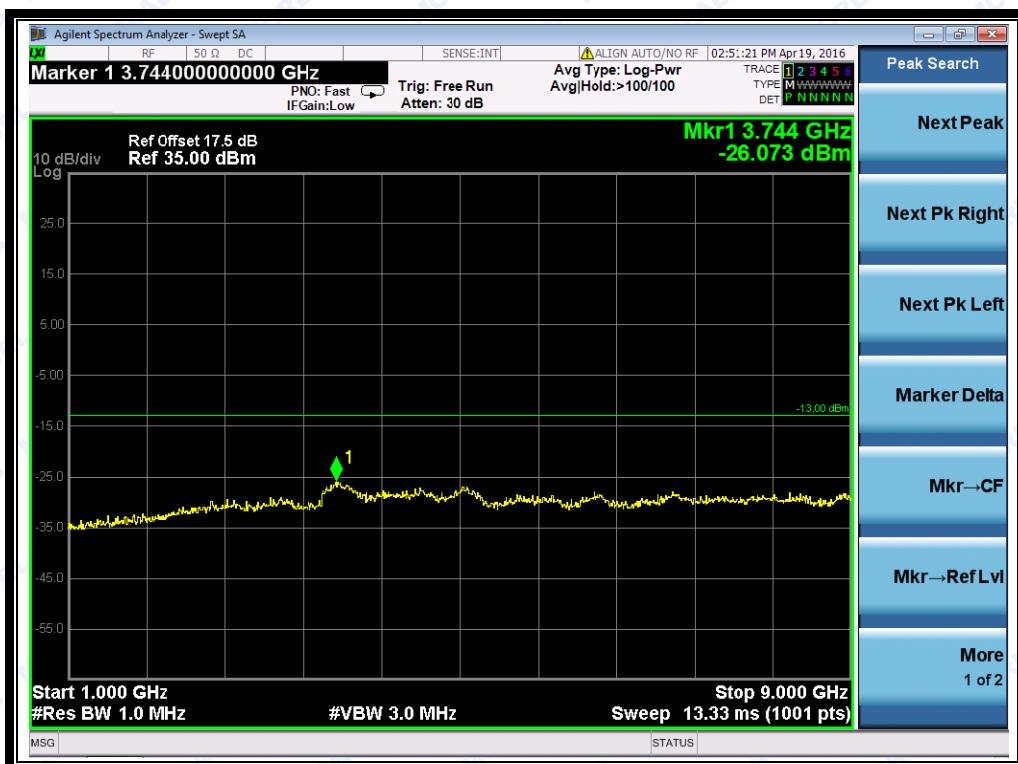
(Plot F3.1: EGPRS 1900MHz Channel = 810, 1GHz to 20GHz)



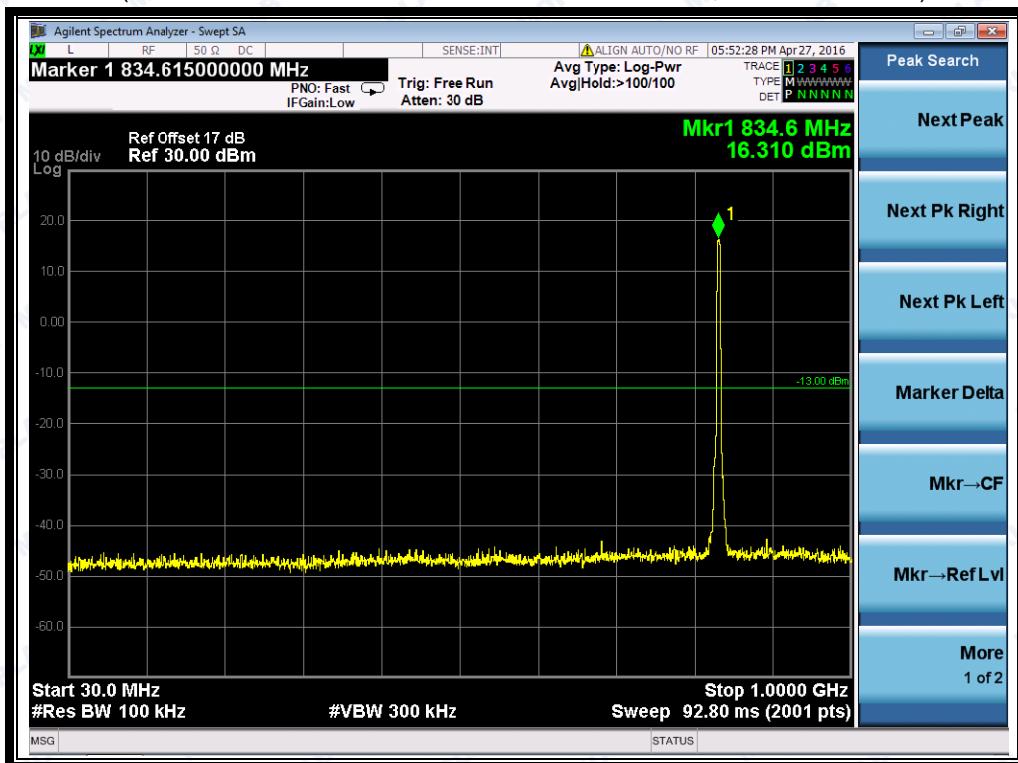
(Plot G1: WCDMA850MHz Channel = 4132, 30MHz to 1GHz)



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(Plot G1.1: WCDMA850MHz Channel = 4132, 1GHz to 9GHz)



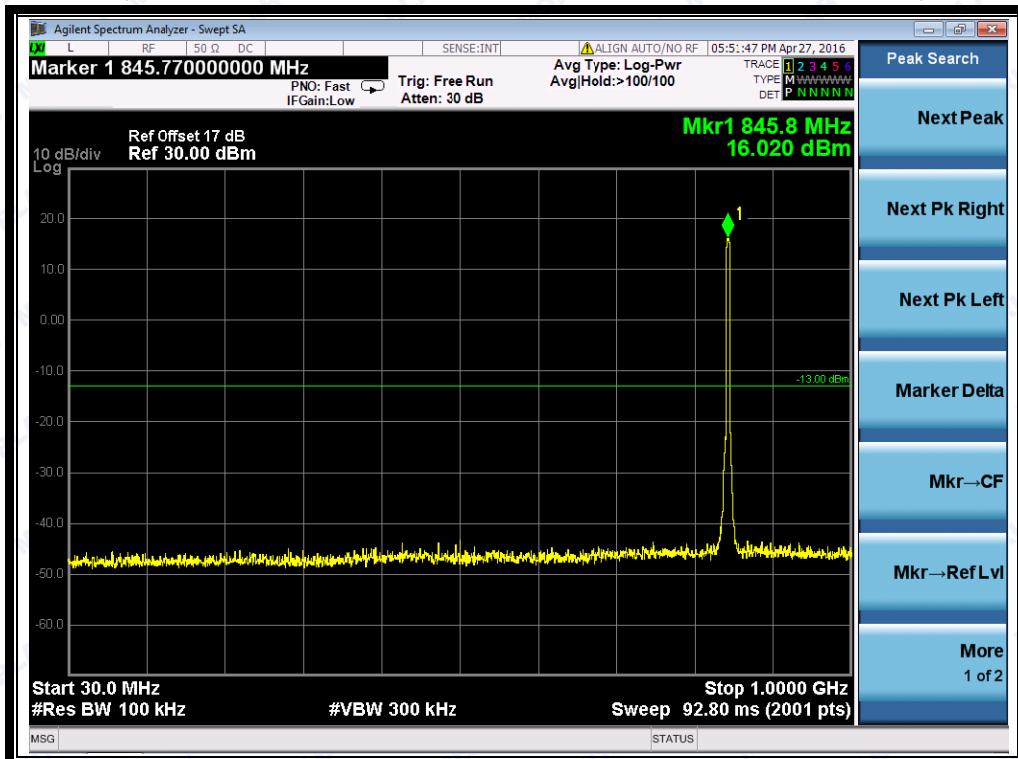
(Plot G2: WCDMA850MHz Channel = 4175, 30MHz to 1GHz)



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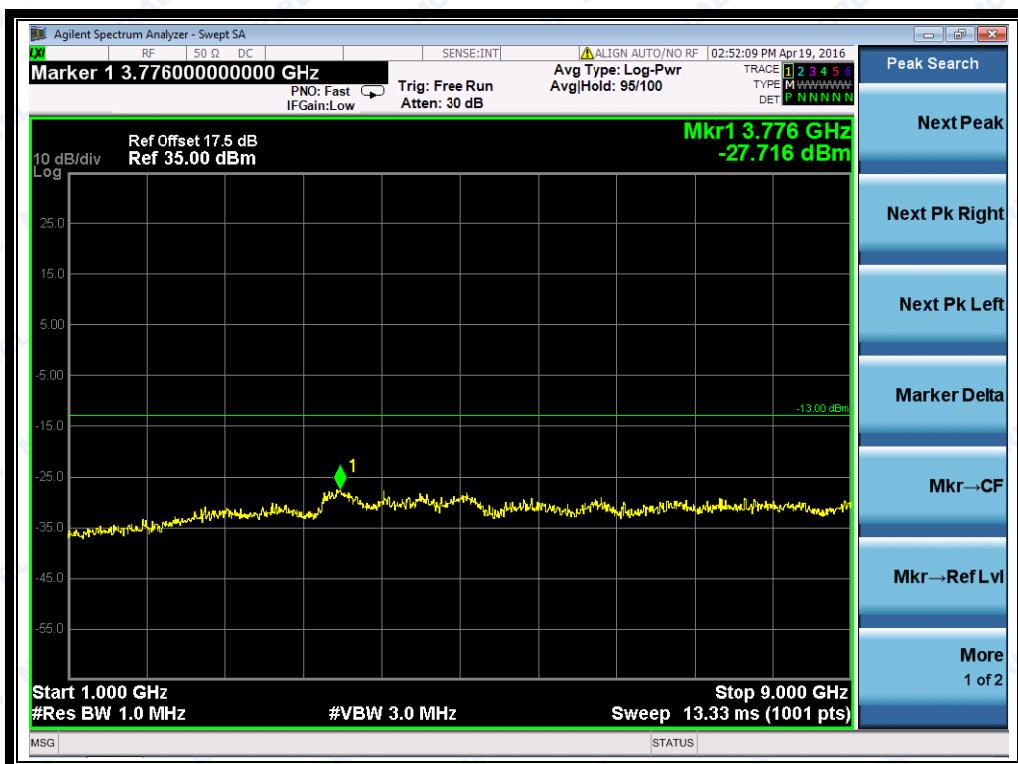
(Plot G2.1: WCDMA850MHz Channel = 4175, 1GHz to 9GHz)



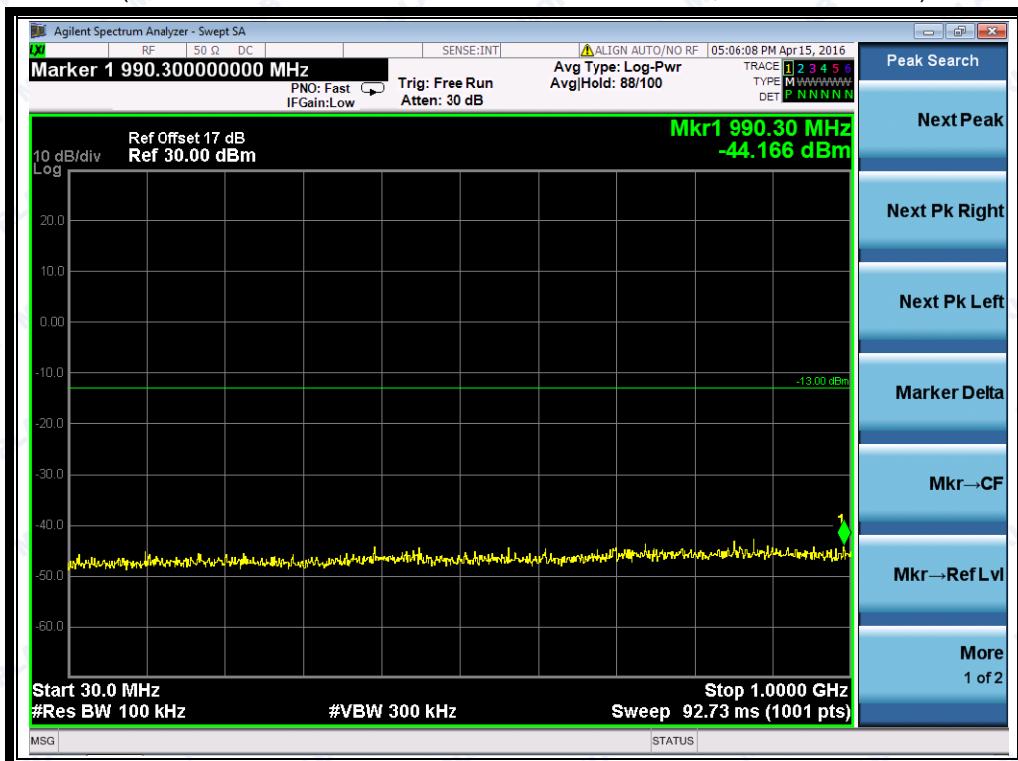
(Plot G3: WCDMA850MHz Channel = 4233, 30MHz to 1GHz)



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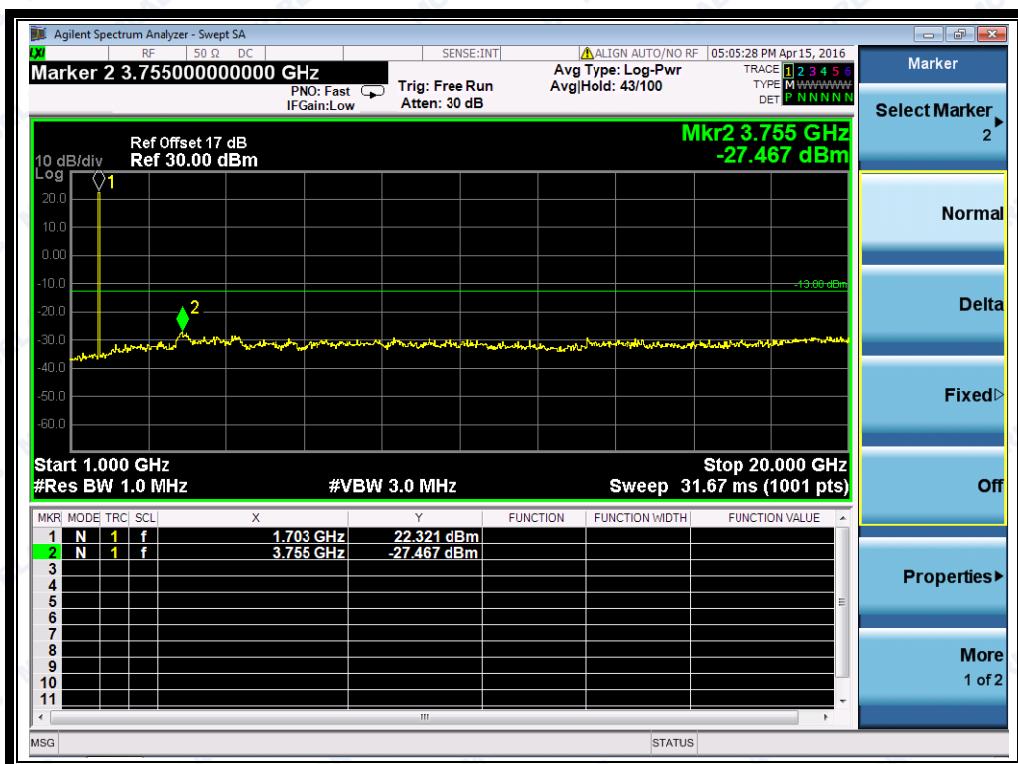
(Plot G3.1: WCDMA850MHz Channel = 4233, 1GHz to 9GHz)



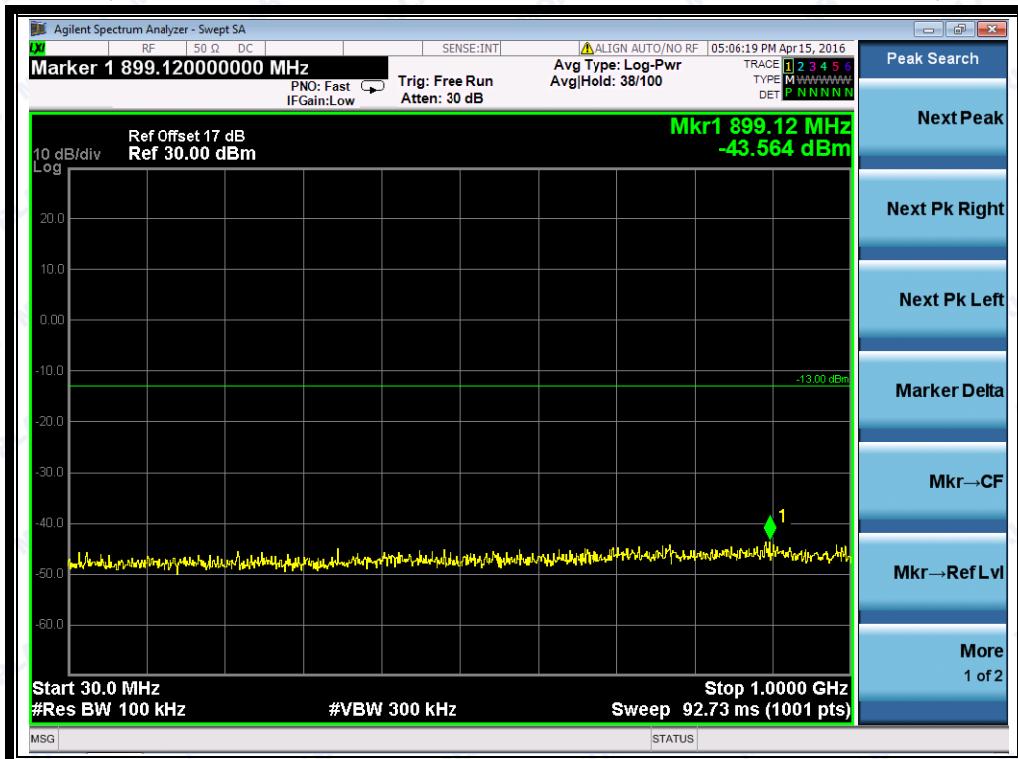
(Plot H1: WCDMA1700MHz Channel = 1312, 30MHz to 1GHz)



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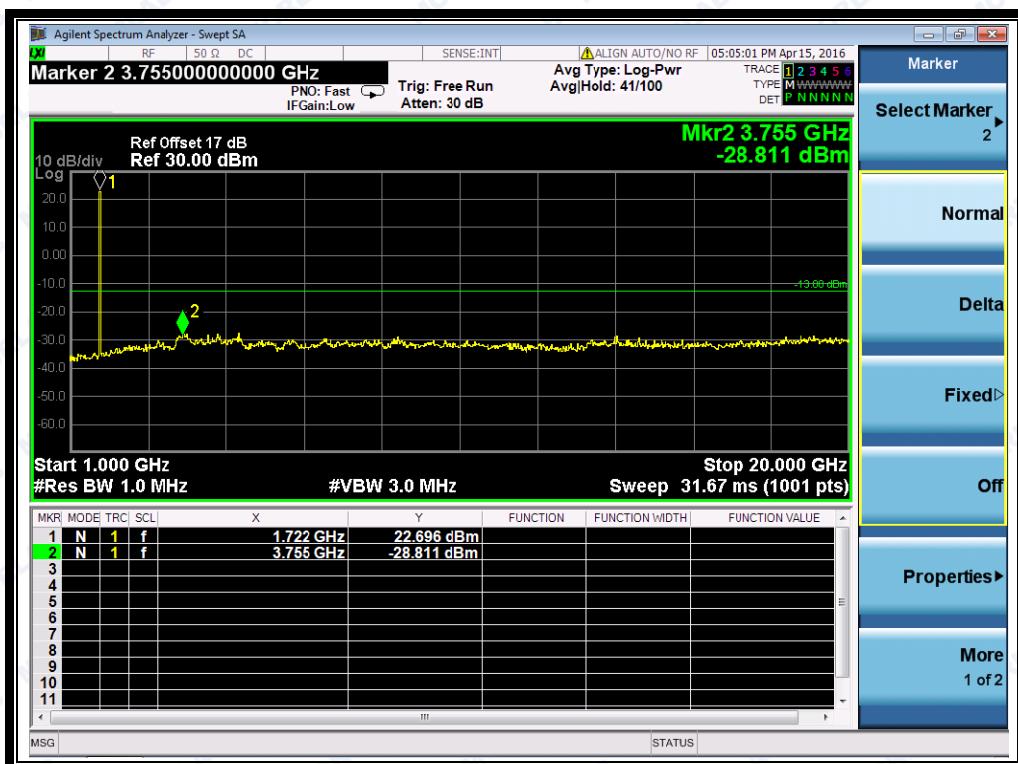
(Plot H1.1: WCDMA1700MHz Channel = 1312, 1GHz to 20GHz)



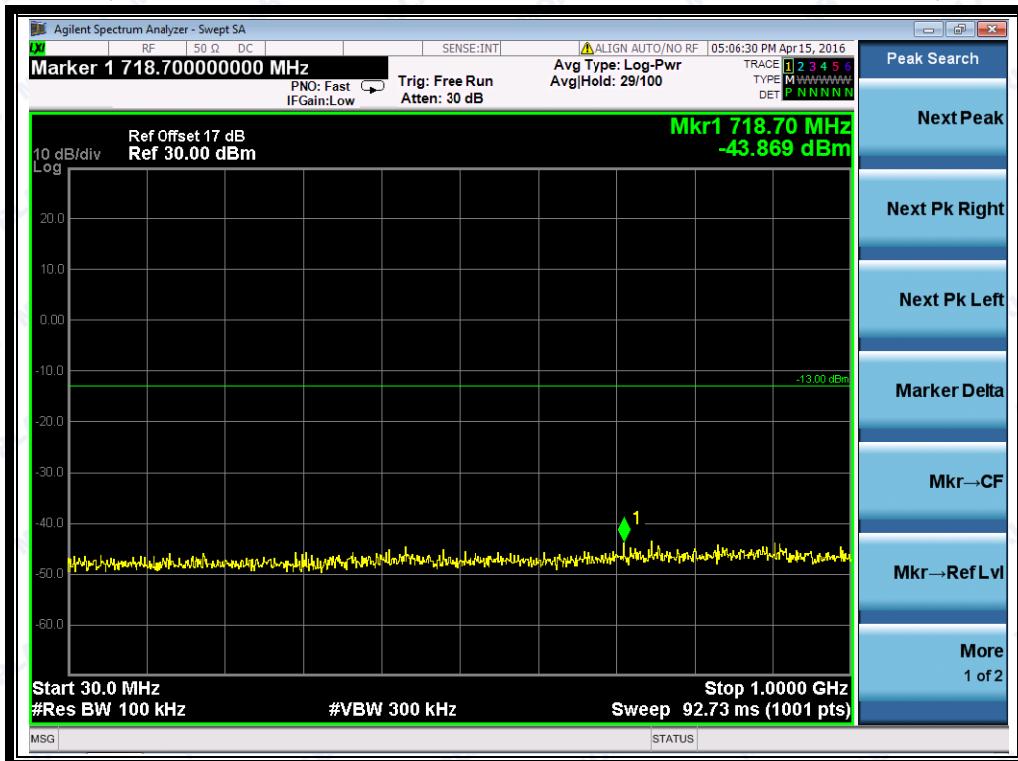
(Plot H2: WCDMA1700MHz Channel = 1412, 30MHz to 1GHz)



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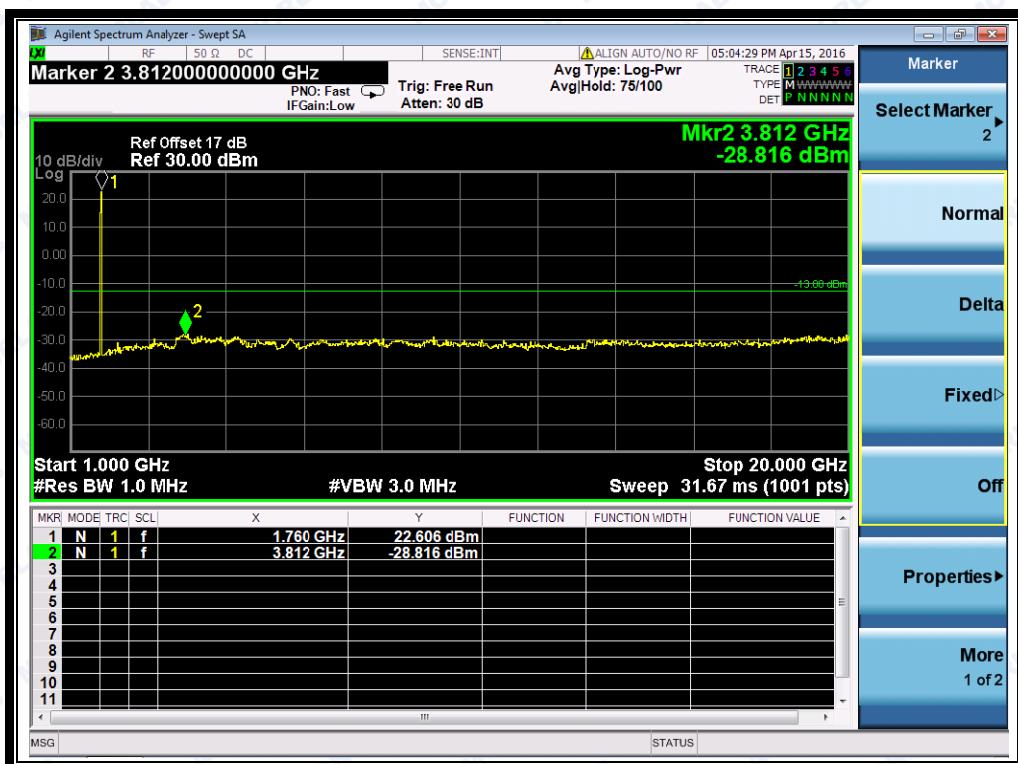
(Plot H2.1: WCDMA1700MHz Channel = 1412, 1GHz to 20GHz)



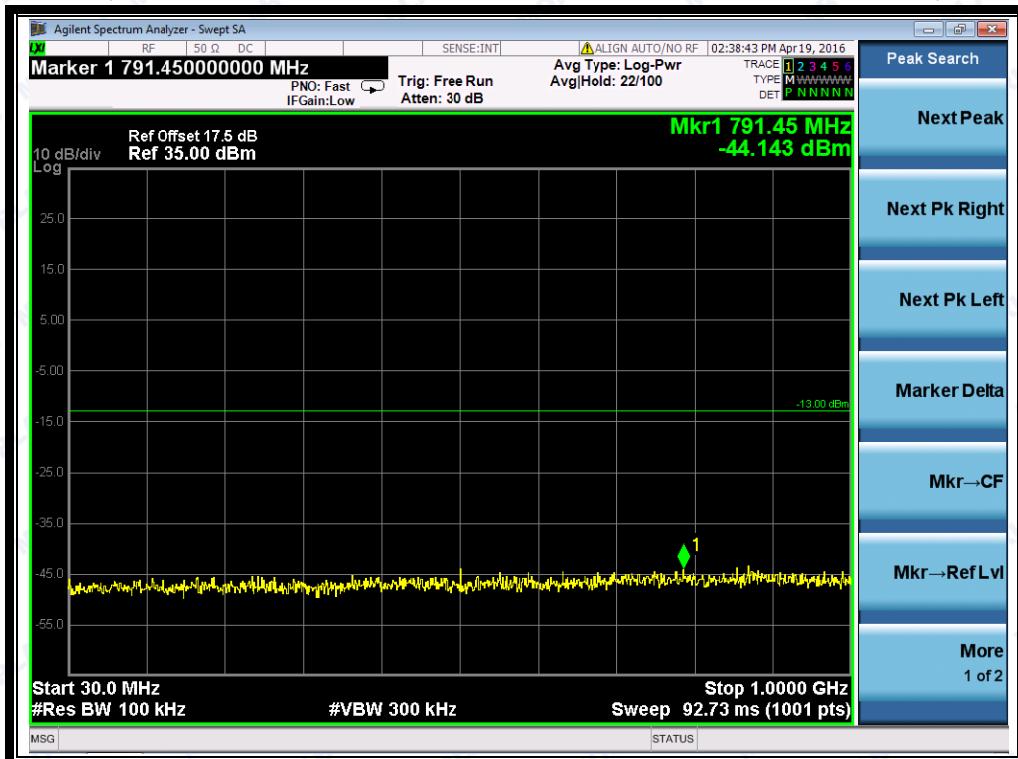
(Plot H3: WCDMA1700MHz Channel = 1513, 30MHz to 1GHz)



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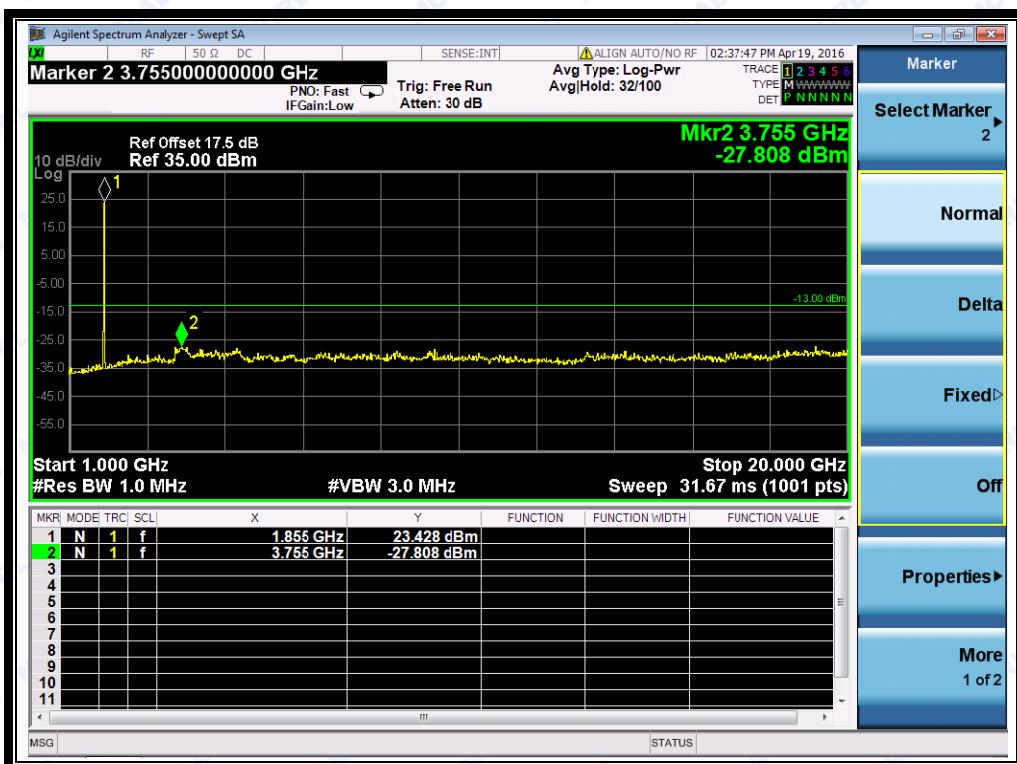
(Plot H3.1: WCDMA1700MHz Channel = 1513, 1GHz to 20GHz)



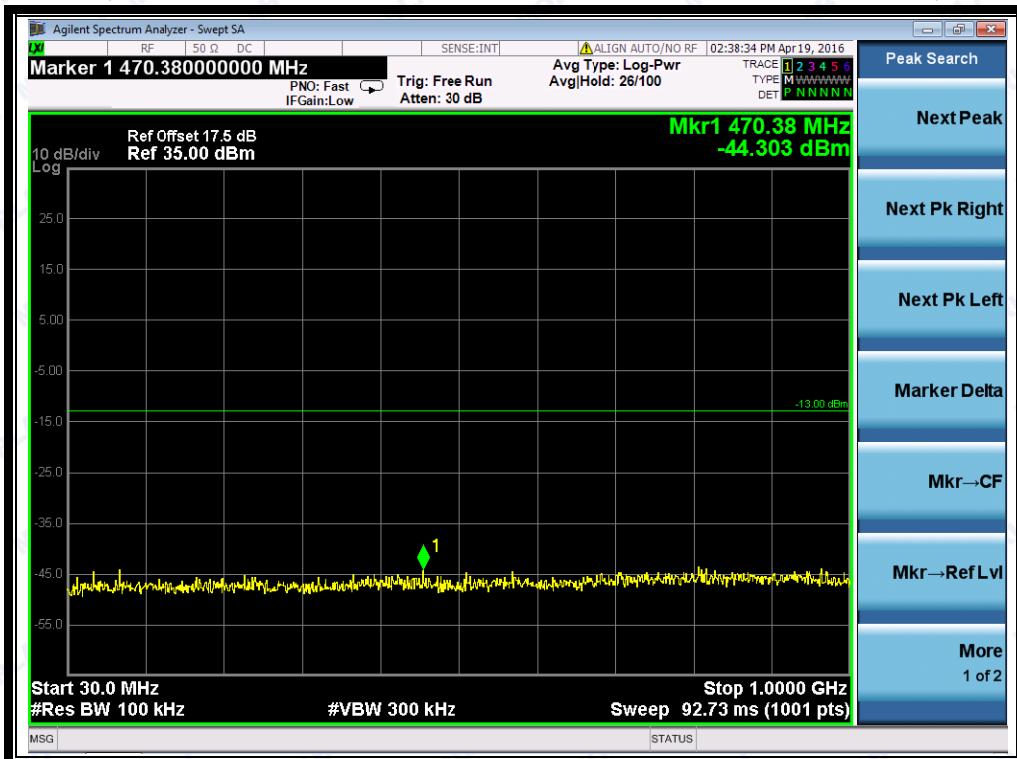
(Plot I1: WCDMA1900MHz Channel = 9262, 30MHz to 1GHz)



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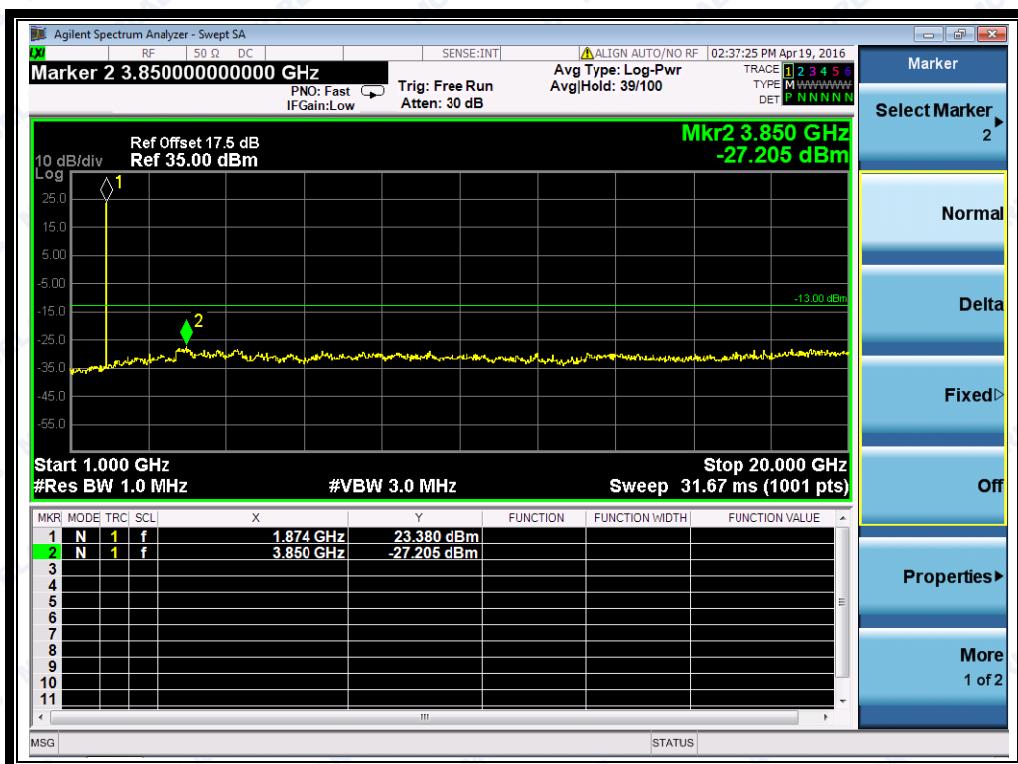
(Plot I1.1: WCDMA1900MHz Channel = 9262, 1GHz to 20GHz)



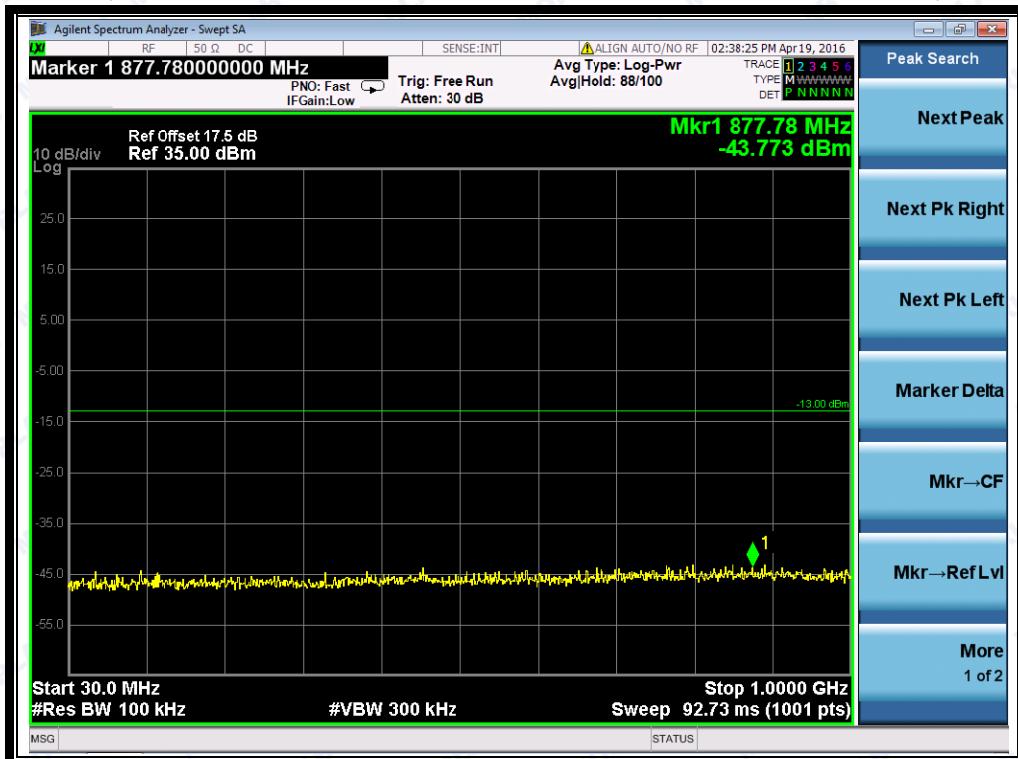
(Plot I2: WCDMA1900MHz Channel = 9400, 30MHz to 1GHz)



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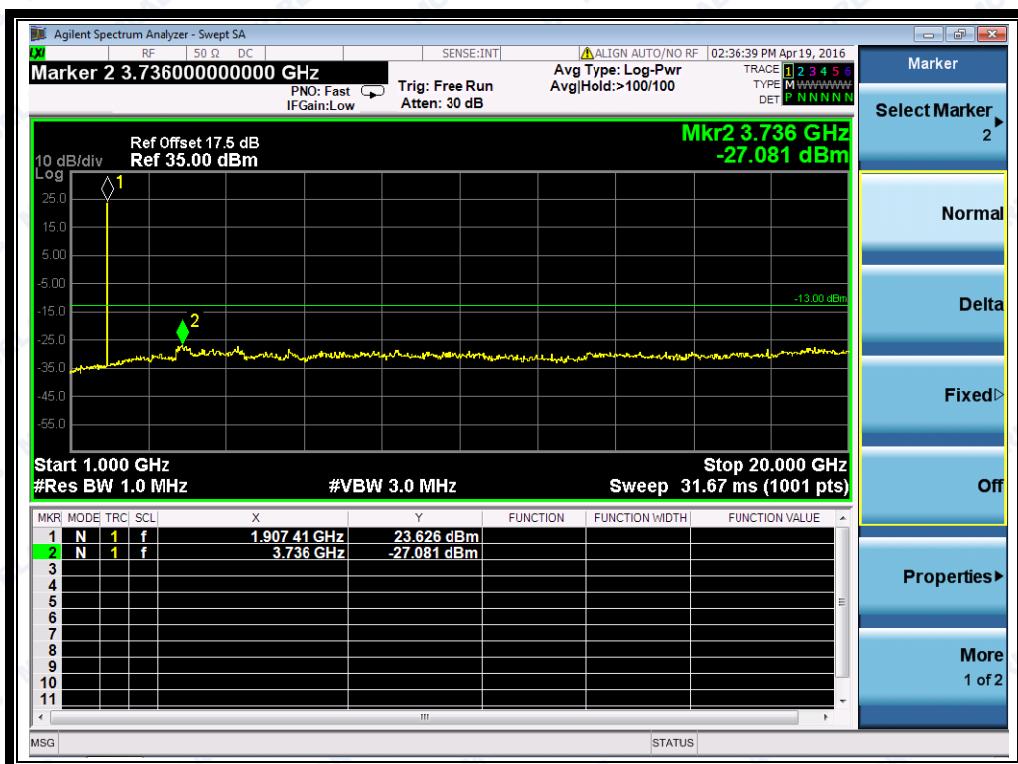
(Plot I2.1: WCDMA1900MHz Channel = 9400, 1GHz to 20GHz)



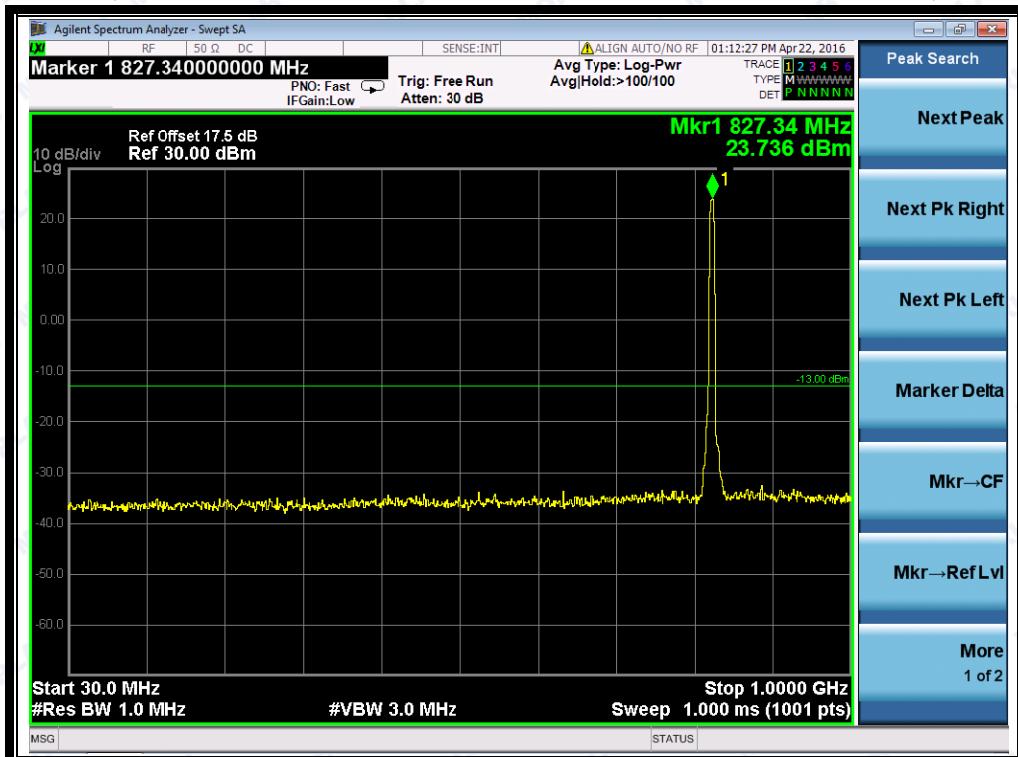
(Plot I3: WCDMA1900MHz Channel = 9538, 30MHz to 1GHz)



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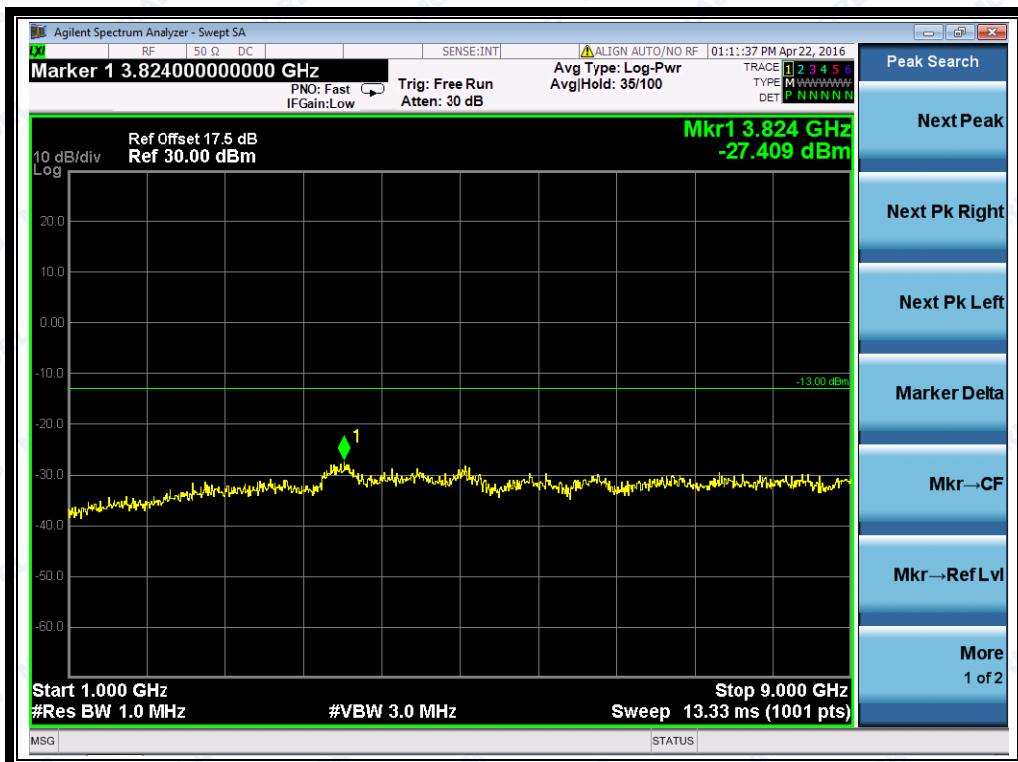
(Plot I3.1: WCDMA1900MHz Channel = 9538 1GHz to 20GHz)



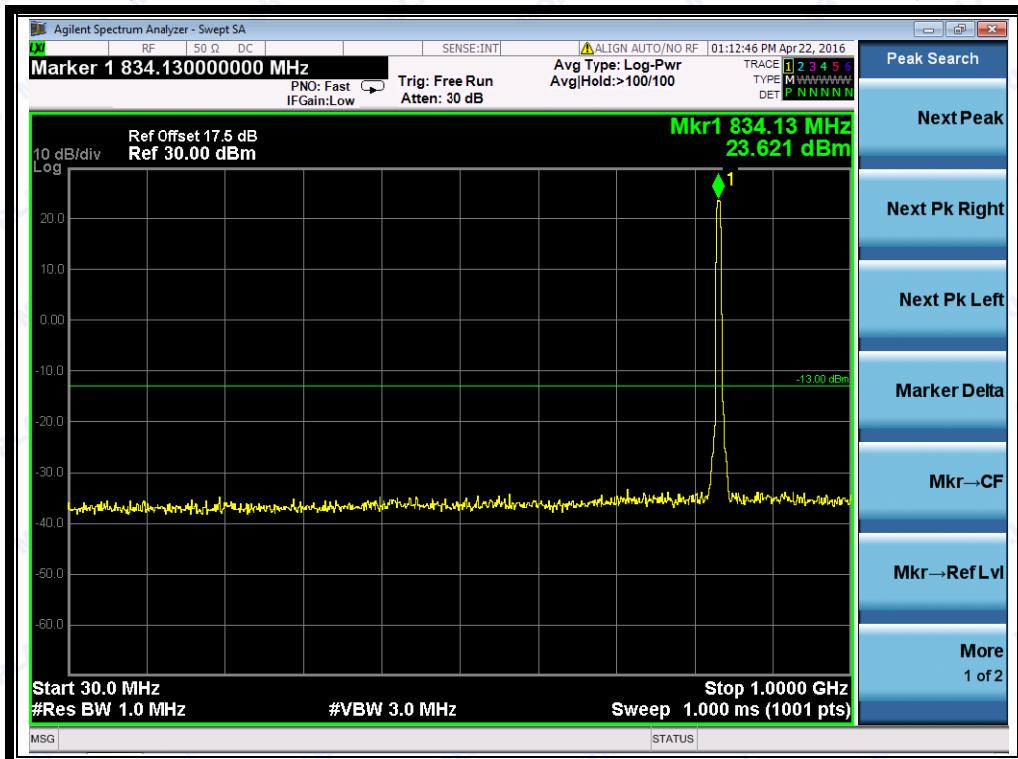
(Plot J1: HSDPA 850MHz Channel = 4132, 30MHz to 1GHz)



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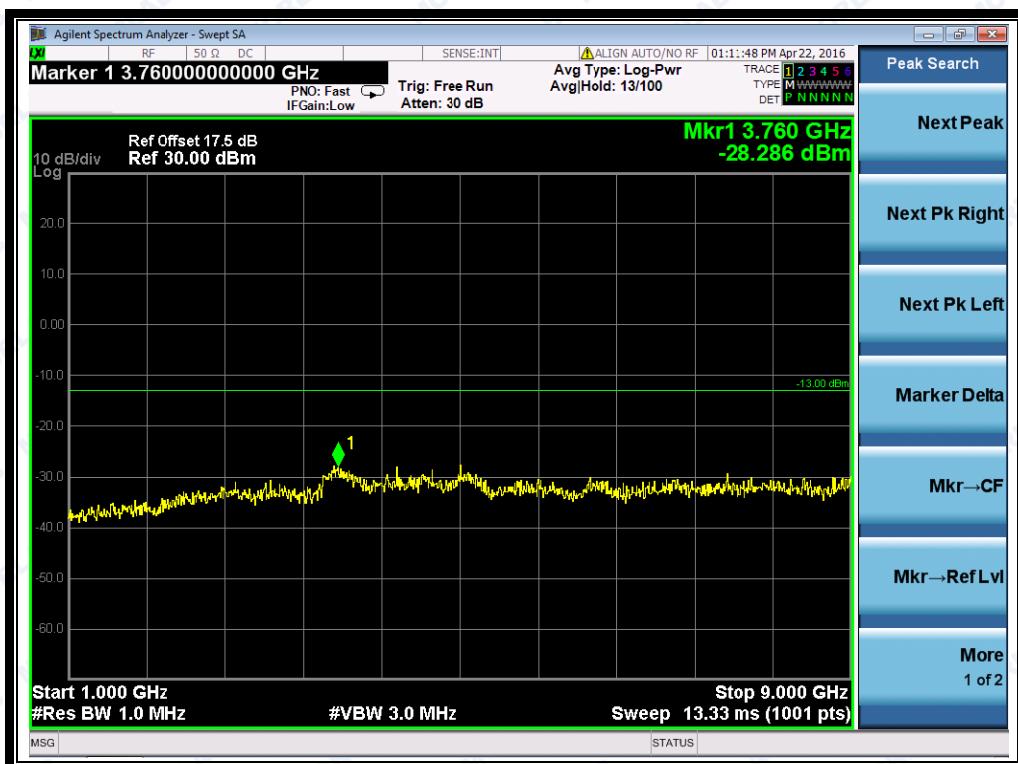
(Plot J1.1: HSDPA 850MHz Channel = 4132, 1GHz to 9GHz)



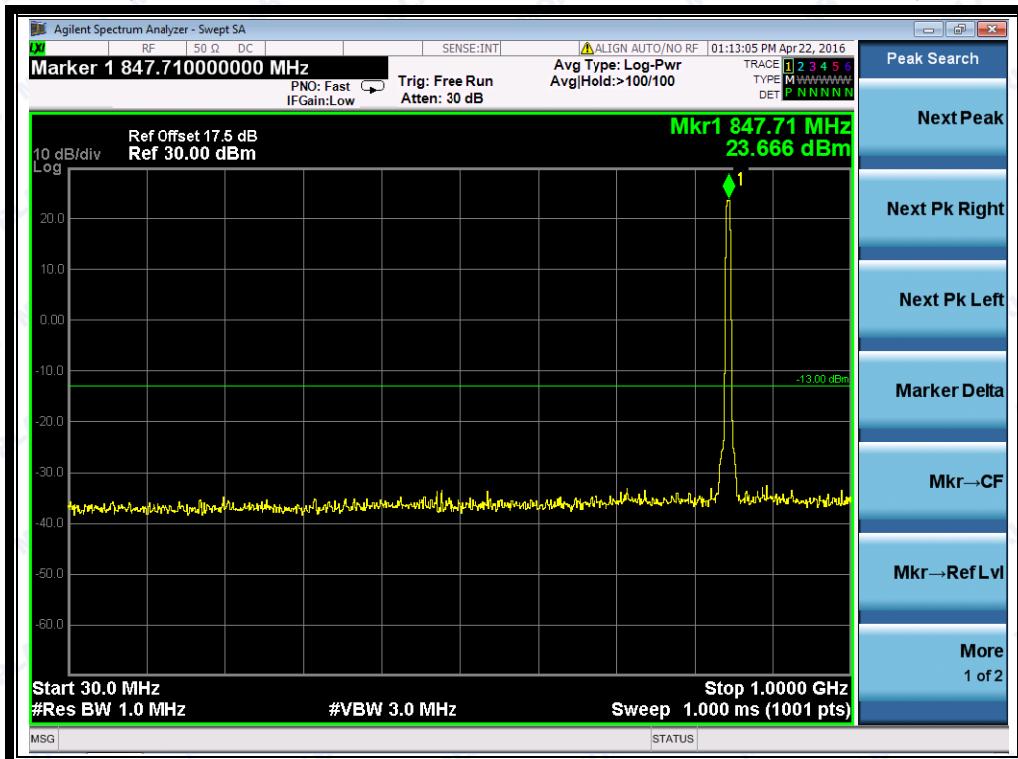
(Plot J2: HSDPA 850MHz Channel = 4175, 30MHz to 1GHz)



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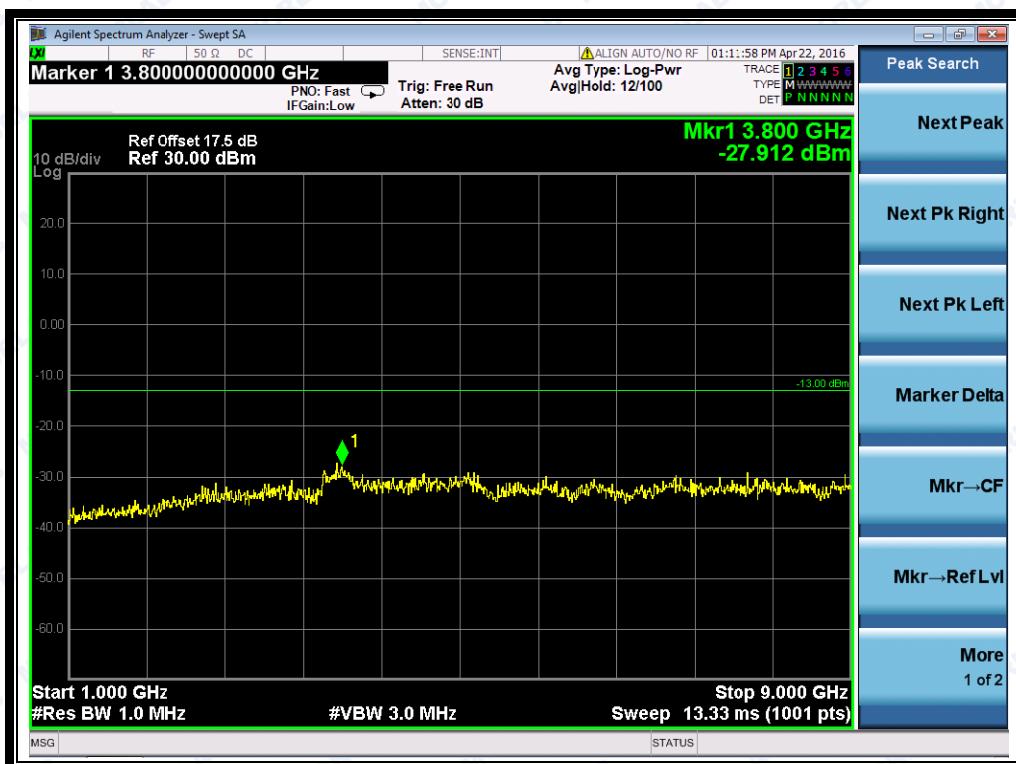
(Plot J2.1: HSDPA 850MHz Channel = 4175, 1GHz to 9GHz)



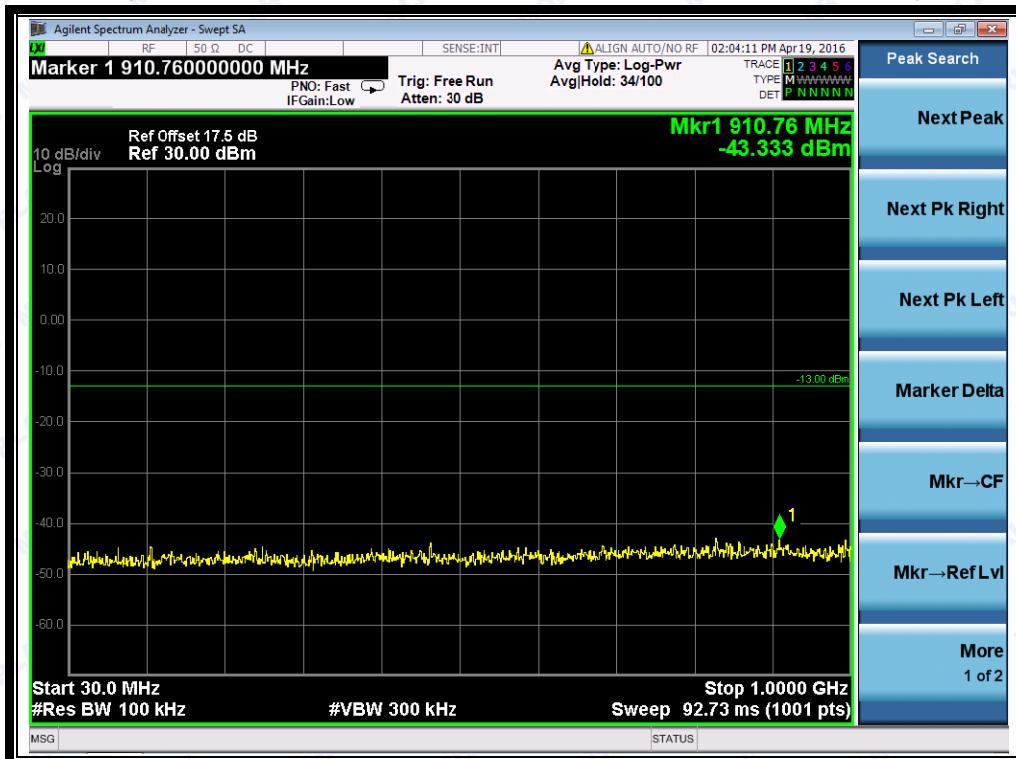
(Plot J3: HSDPA 850MHz Channel = 4233, 30MHz to 1GHz)



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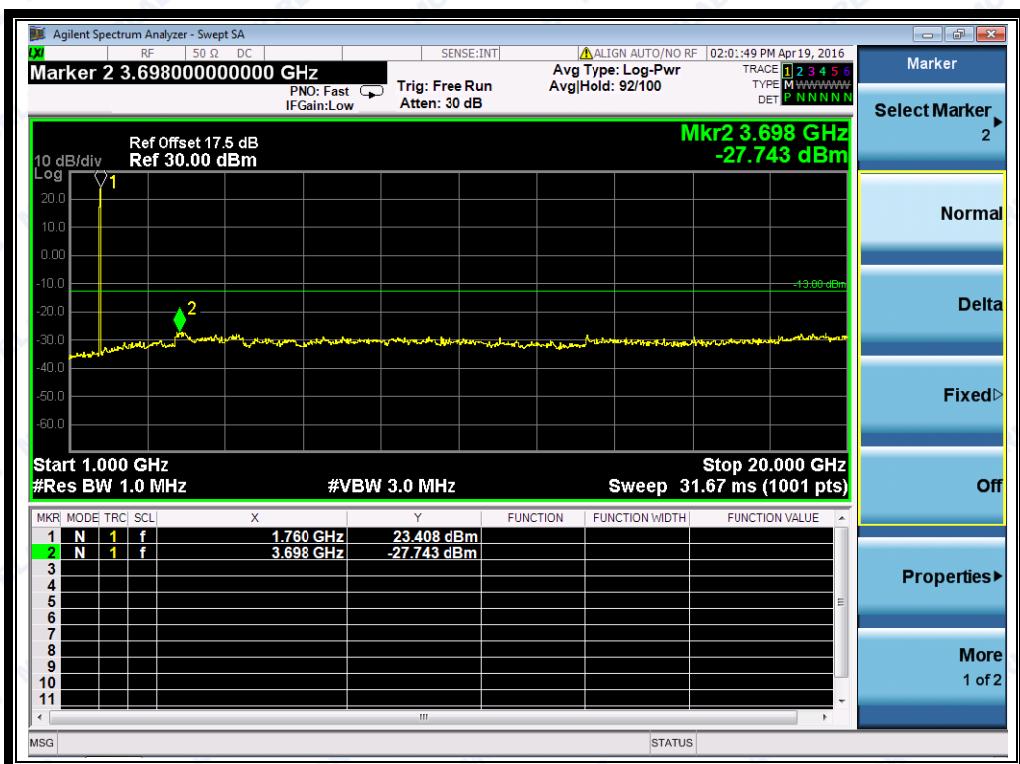
(Plot J3.1: HSDPA 850MHz Channel = 4233, 1GHz to 9GHz)



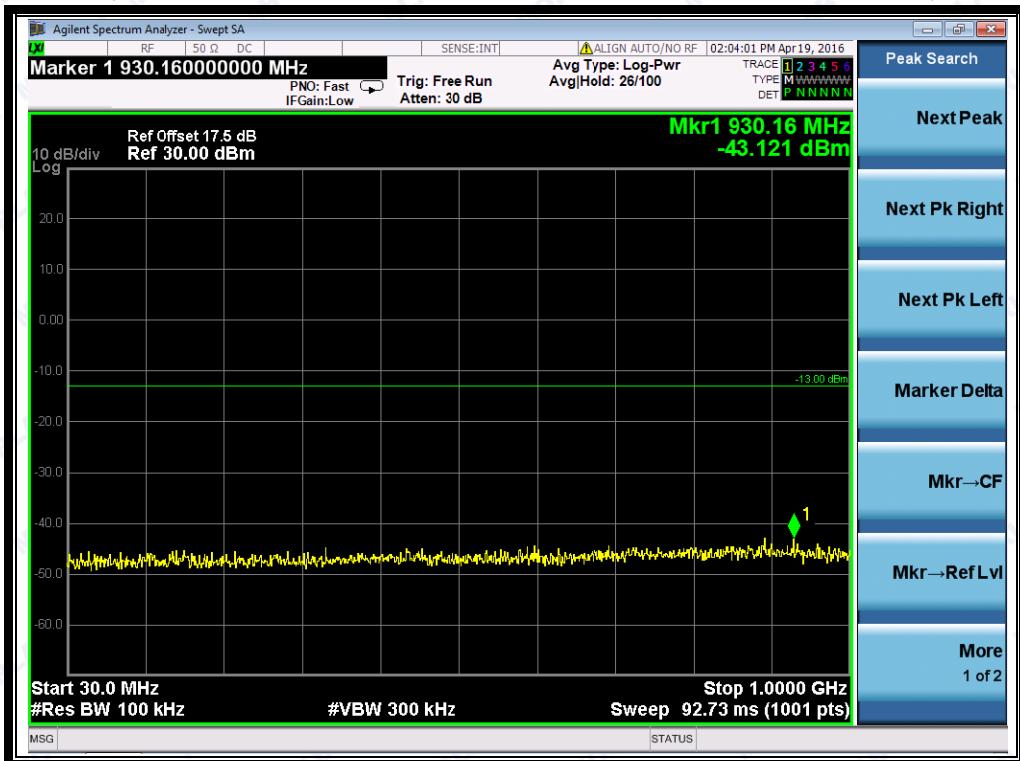
(Plot K1: HSDPA 1700MHz Channel = 1312, 30MHz to 1GHz)



REPORT No.: SZ16030142W04



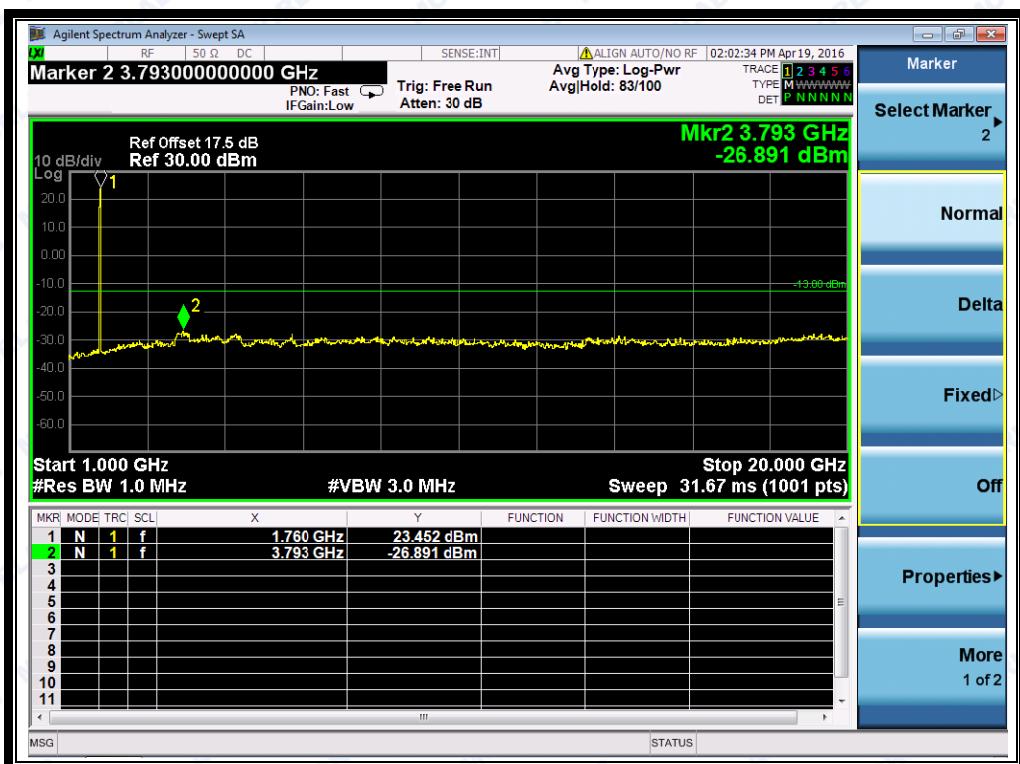
(Plot K1.1: HSDPA 1700MHz Channel = 1312, 1GHz to 20GHz)



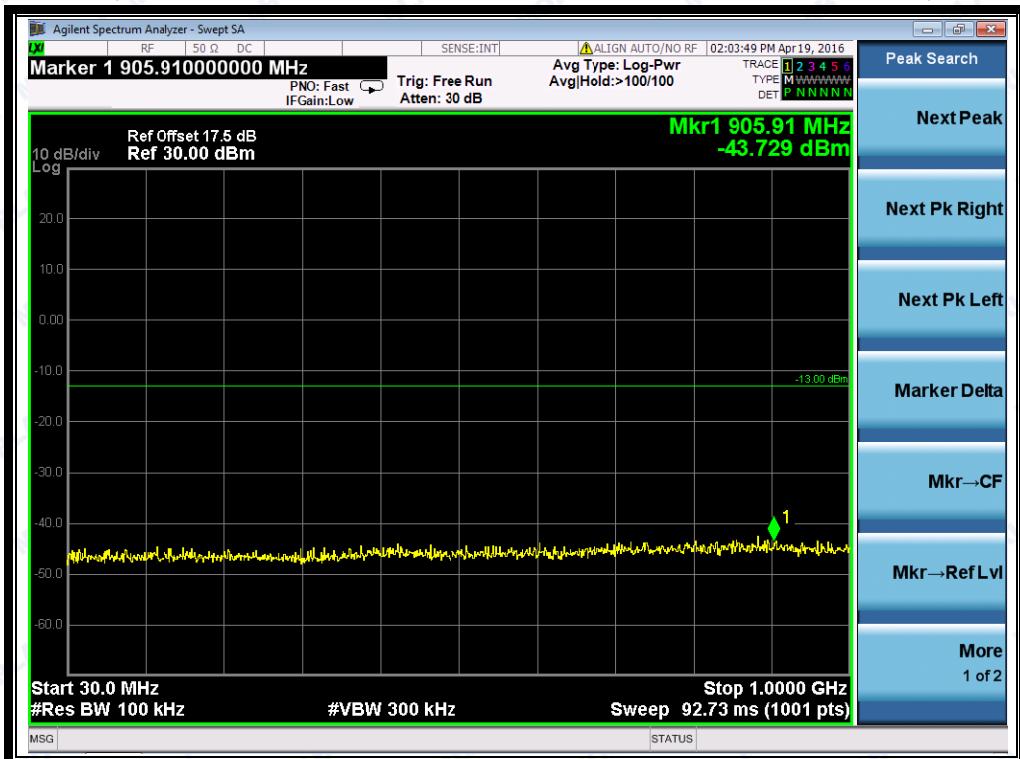
(Plot K2: HSDPA 1700MHz Channel = 1412, 30MHz to 1GHz)



REPORT No.: SZ16030142W04



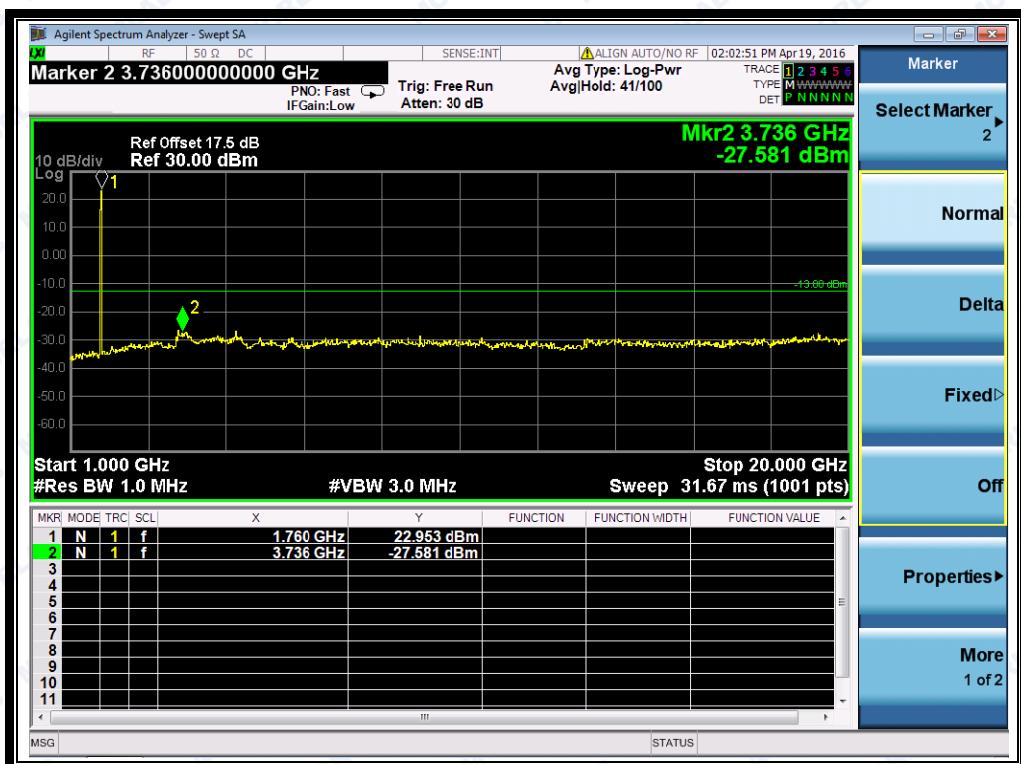
(Plot K2.1: HSDPA1700MHz Channel = 1412, 1GHz to 20GHz)



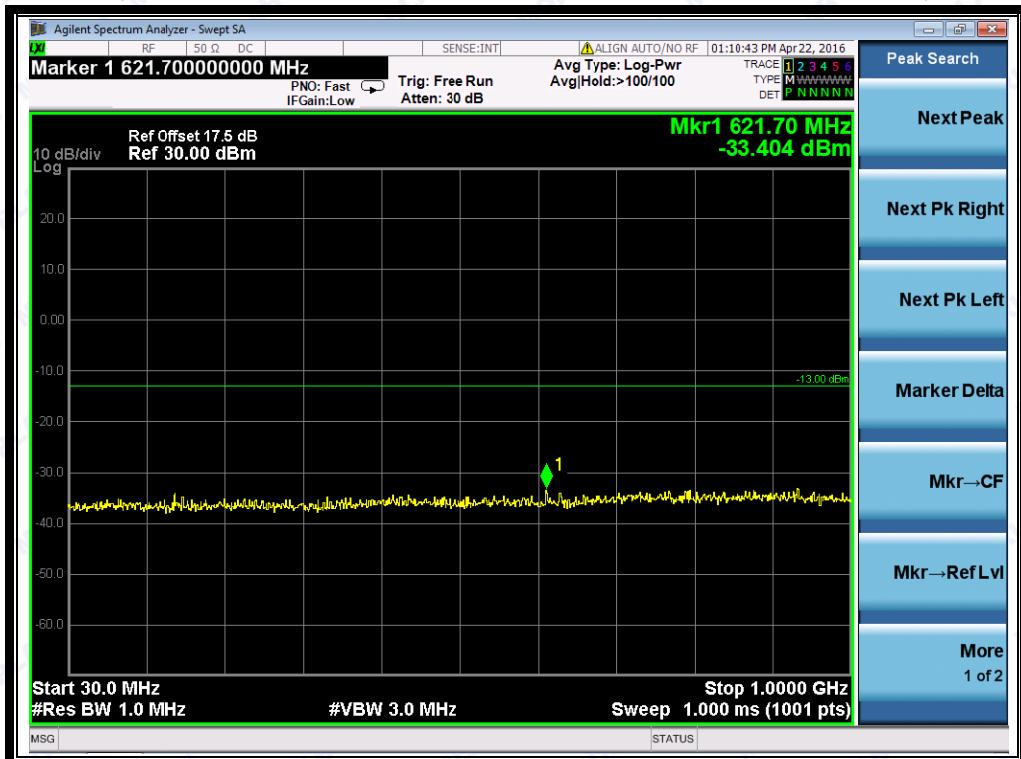
(Plot K3: HSDPA1700MHz Channel = 1513, 30MHz to 1GHz)



REPORT No.: SZ16030142W04



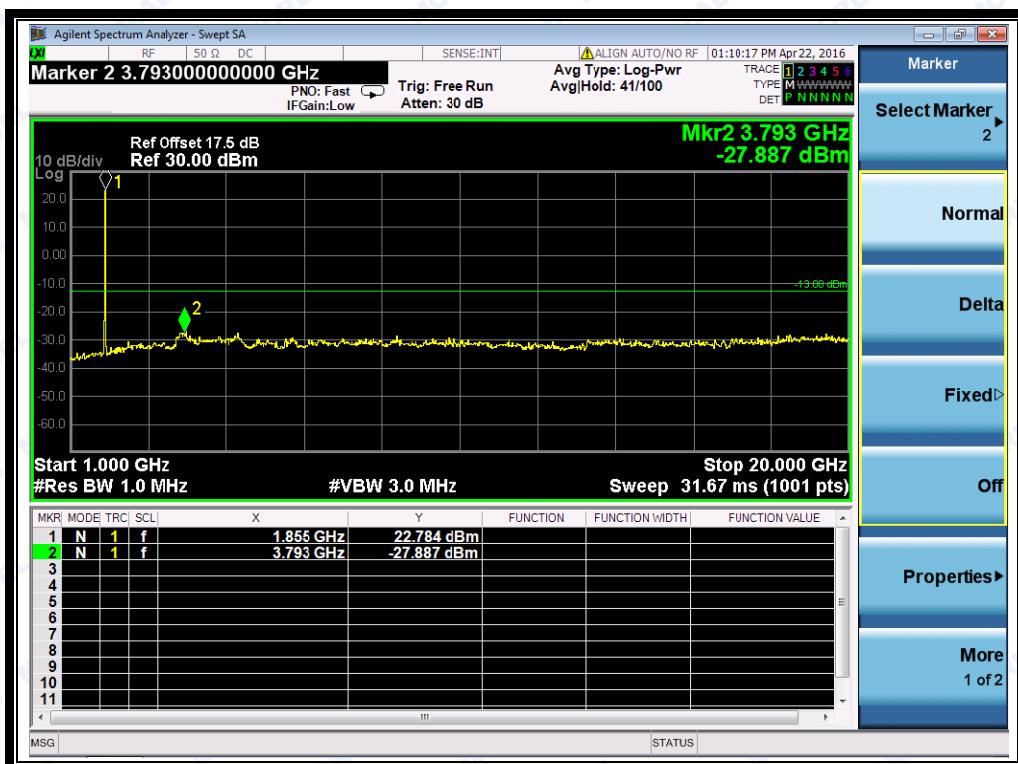
(Plot K3.1: HSDPA1700MHz Channel = 1513 1GHz to 20GHz)



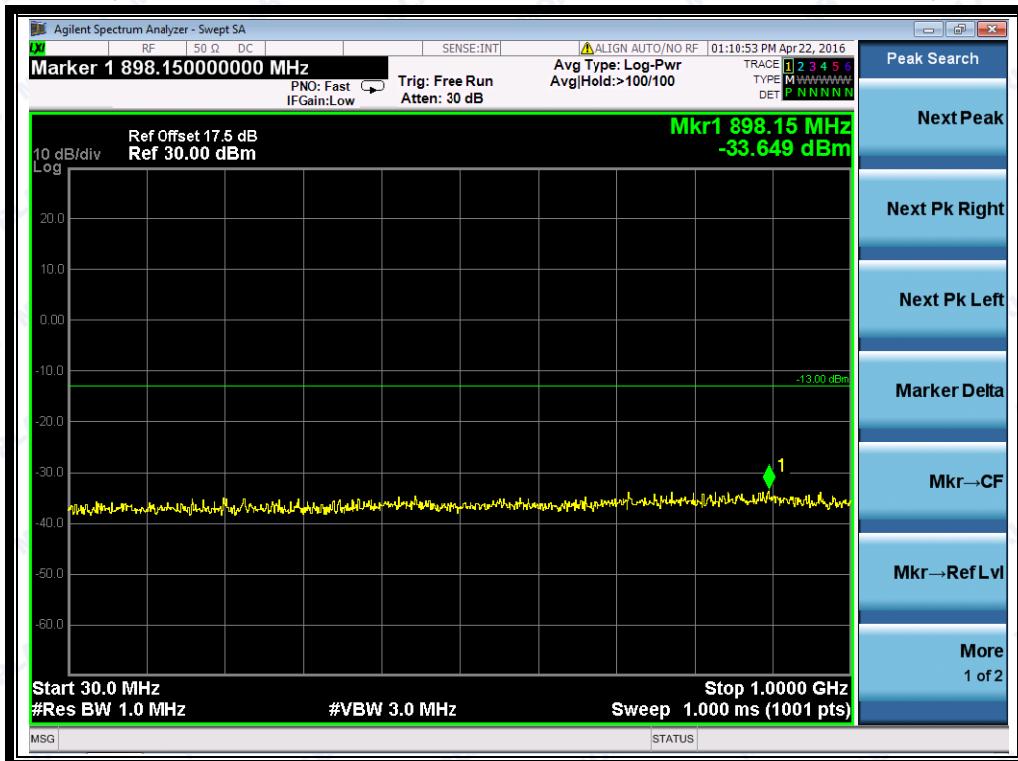
(Plot L1: HSDPA 1900MHz Channel = 9262, 30MHz to 1GHz)



REPORT No.: SZ16030142W04



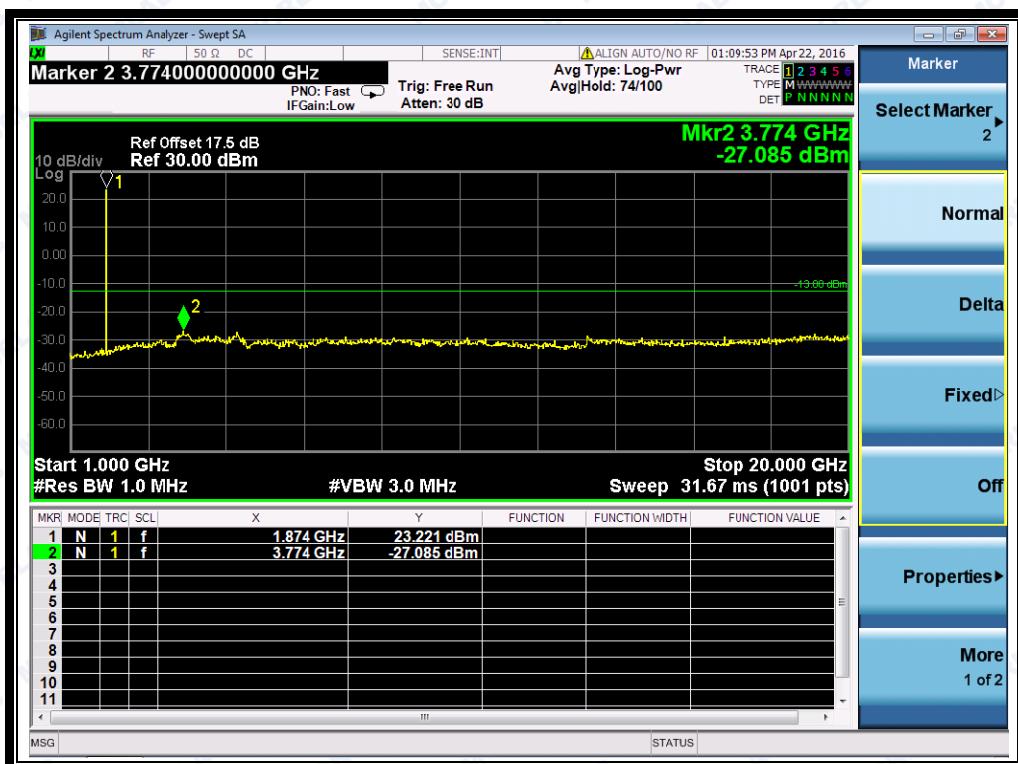
(Plot L1.1: HSDPA 1900MHz Channel = 9262, 1GHz to 20GHz)



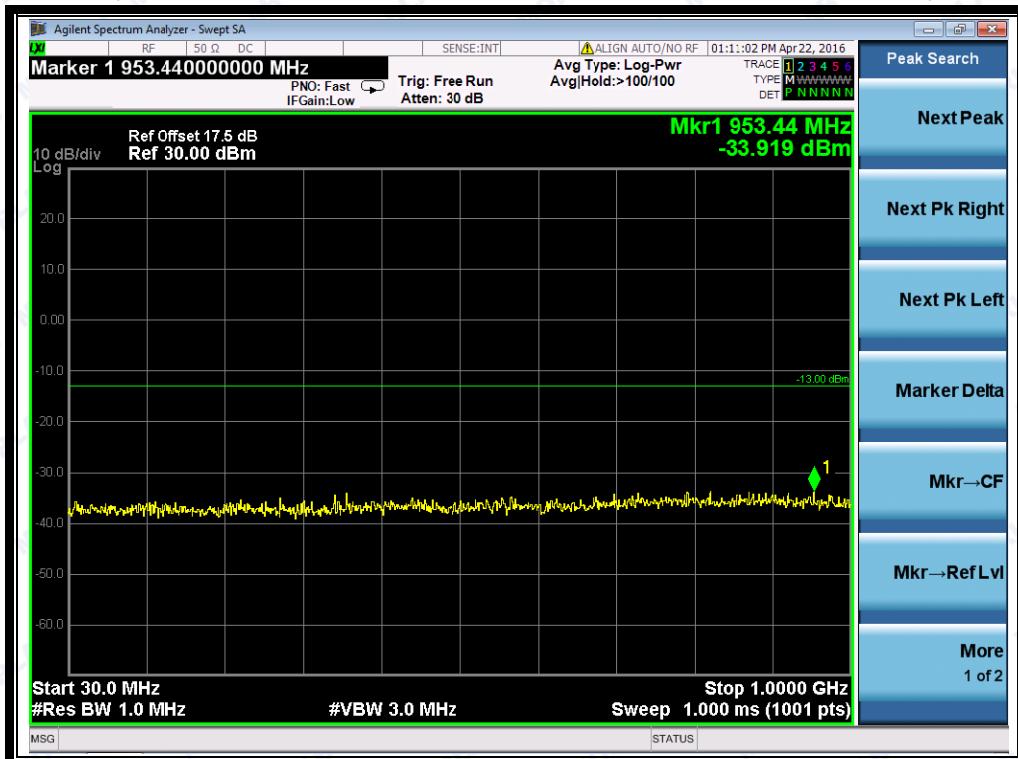
(Plot L2: HSDPA 1900MHz Channel = 9400, 30MHz to 1GHz)



REPORT No.: SZ16030142W04



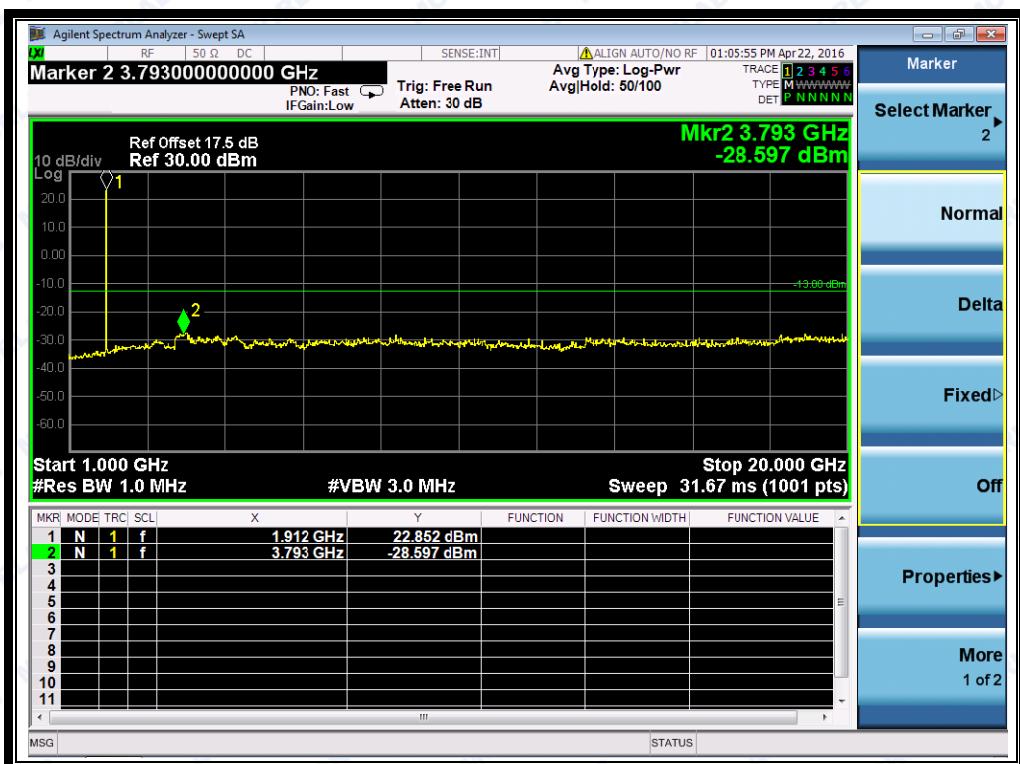
(Plot L2.1: HSDPA1900MHz Channel = 9400, 1GHz to 20GHz)



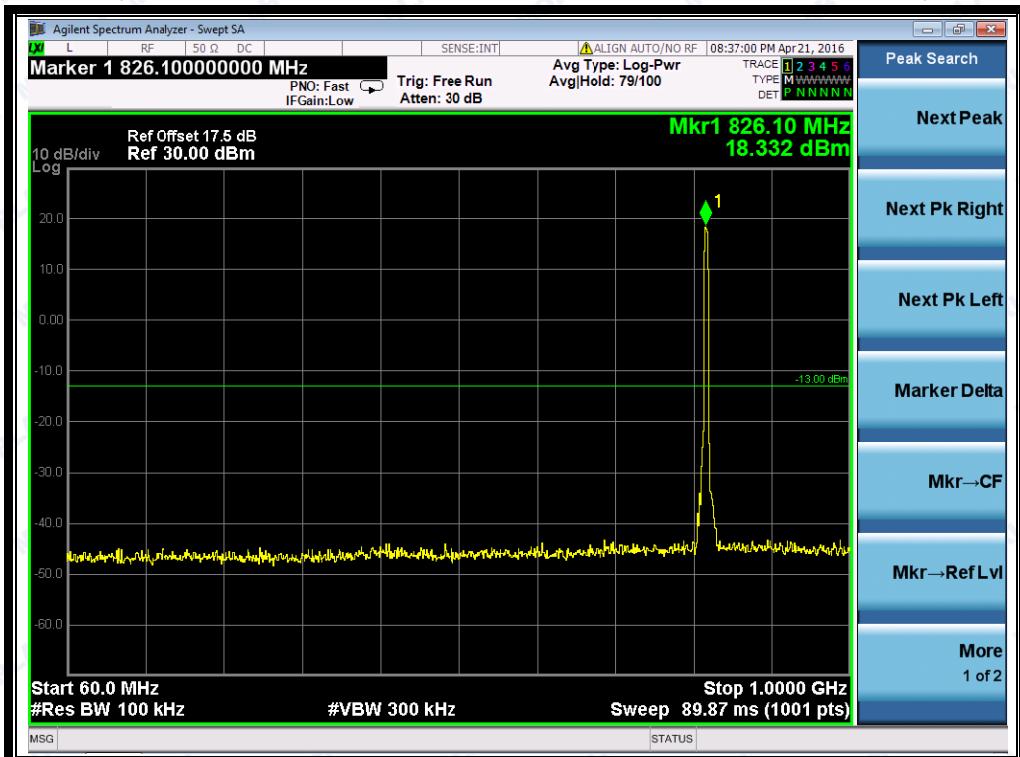
(Plot L3: HSDPA1900MHz Channel = 9538, 30MHz to 1GHz)



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(Plot L3.1: HSDPA1900MHz Channel = 9538 1GHz to 20GHz)



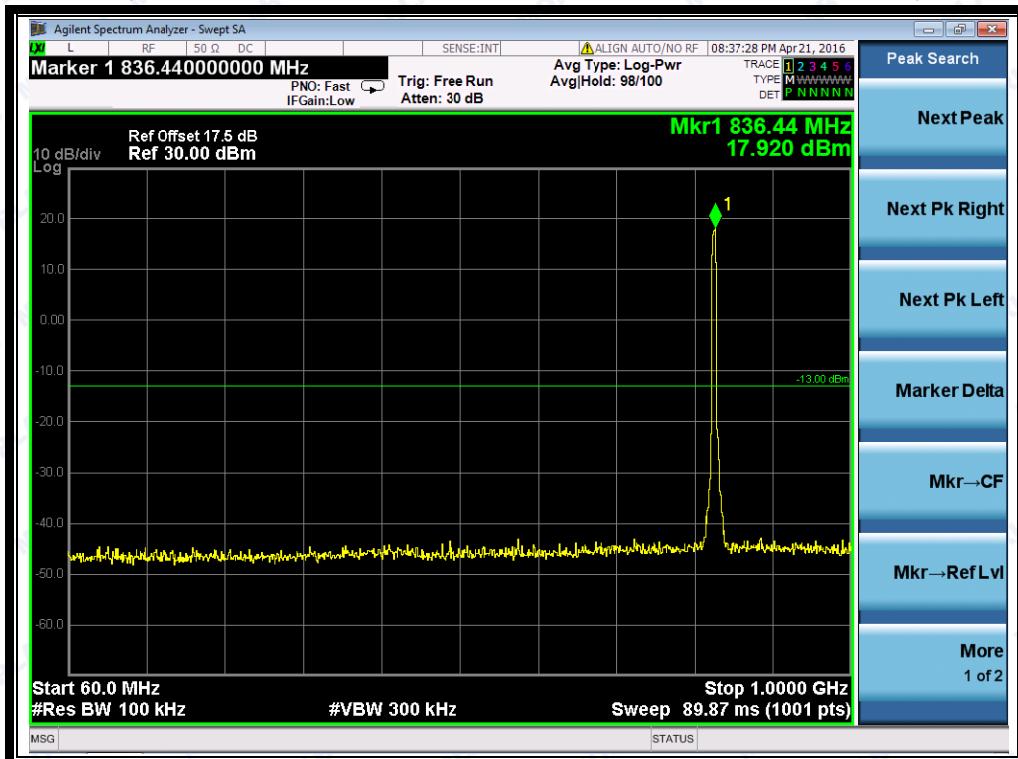
(Plot M1: HSUPA 850MHz Channel = 4132, 30MHz to 1GHz)



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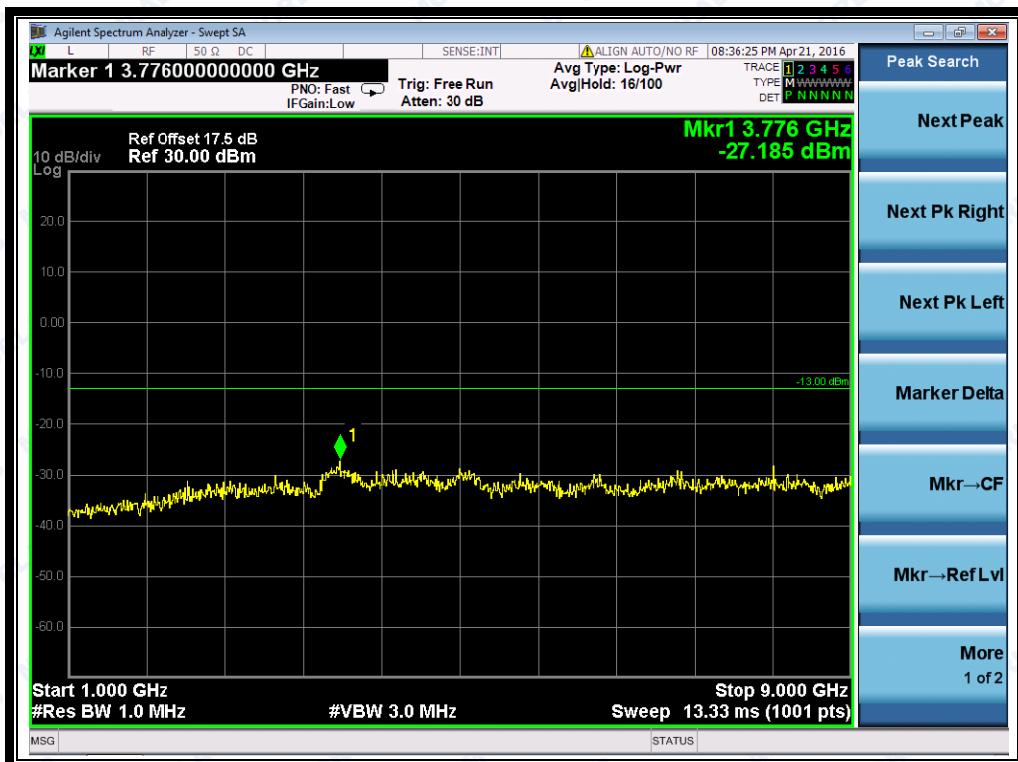
(Plot M1.1: HSUPA 850MHz Channel = 4132, 1GHz to 9GHz)



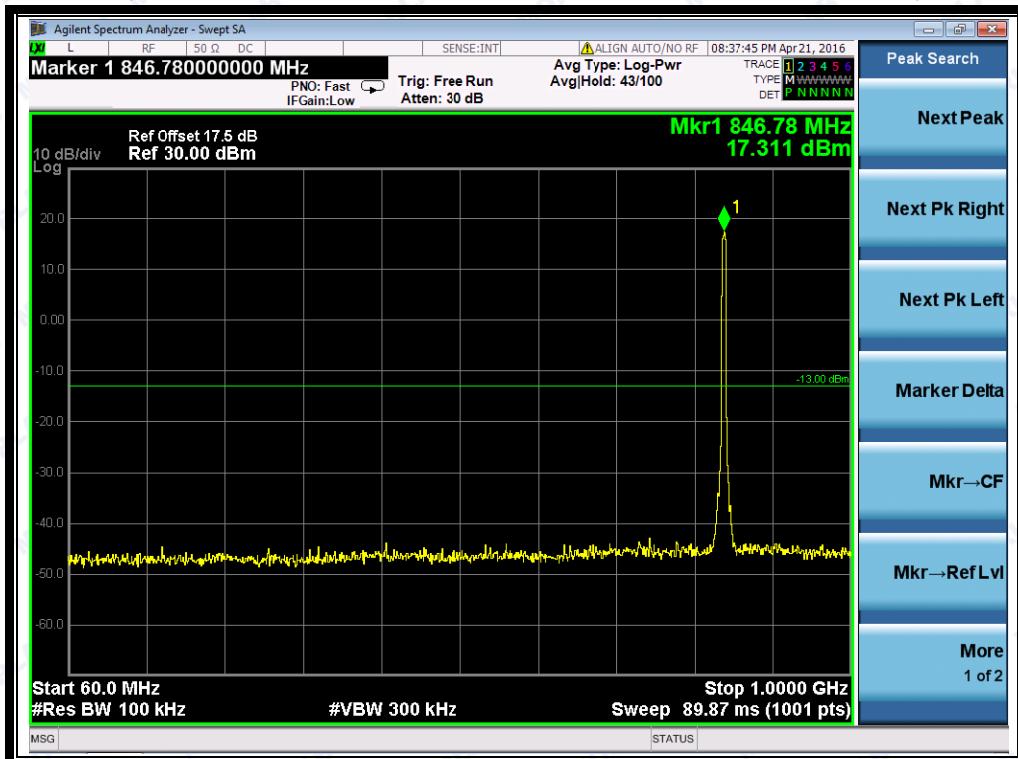
(Plot M2: HSUPA 850MHz Channel = 4175, 30MHz to 1GHz)



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(Plot M2.1: HSUPA 850MHz Channel = 4175, 1GHz to 9GHz)



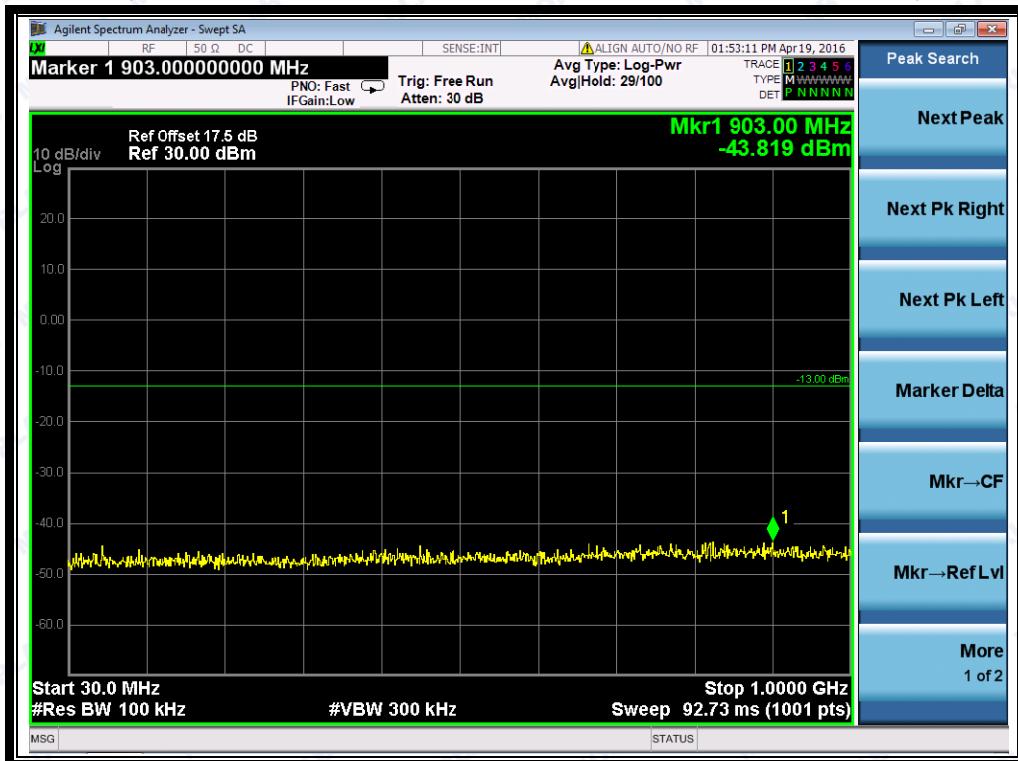
(Plot M3: HSUPA 850MHz Channel = 4233, 30MHz to 1GHz)



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(Plot M3.1: HSUPA 850MHz Channel = 4233, 1GHz to 9GHz)



(Plot N1: HSUPA 1700MHz Channel = 1312, 30MHz to 1GHz)