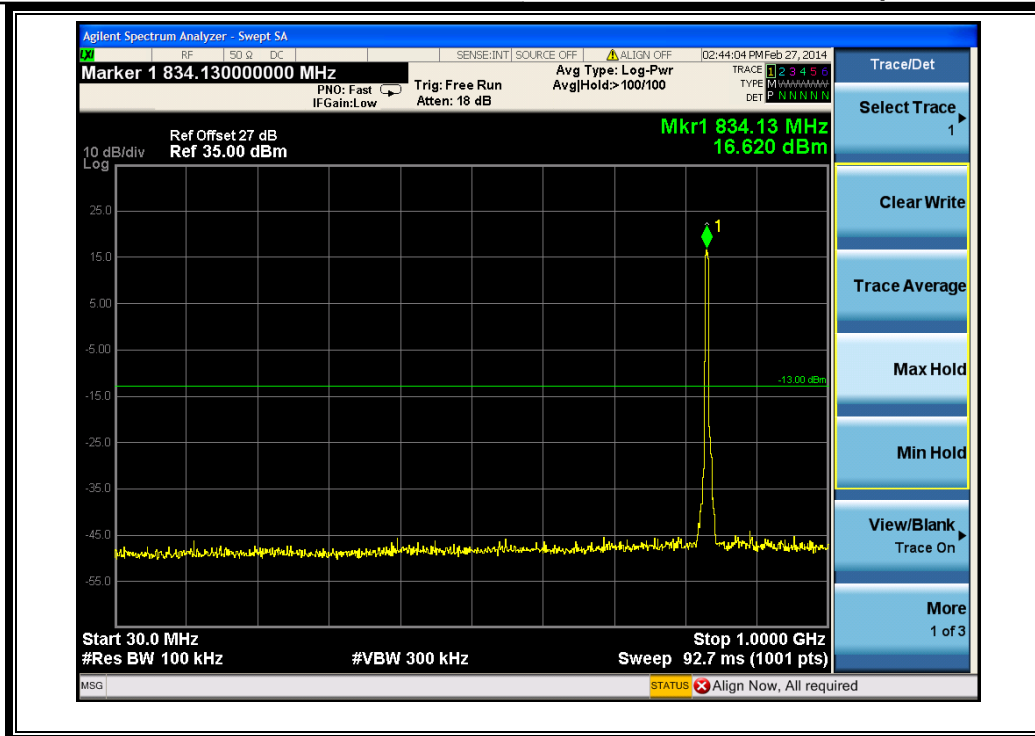
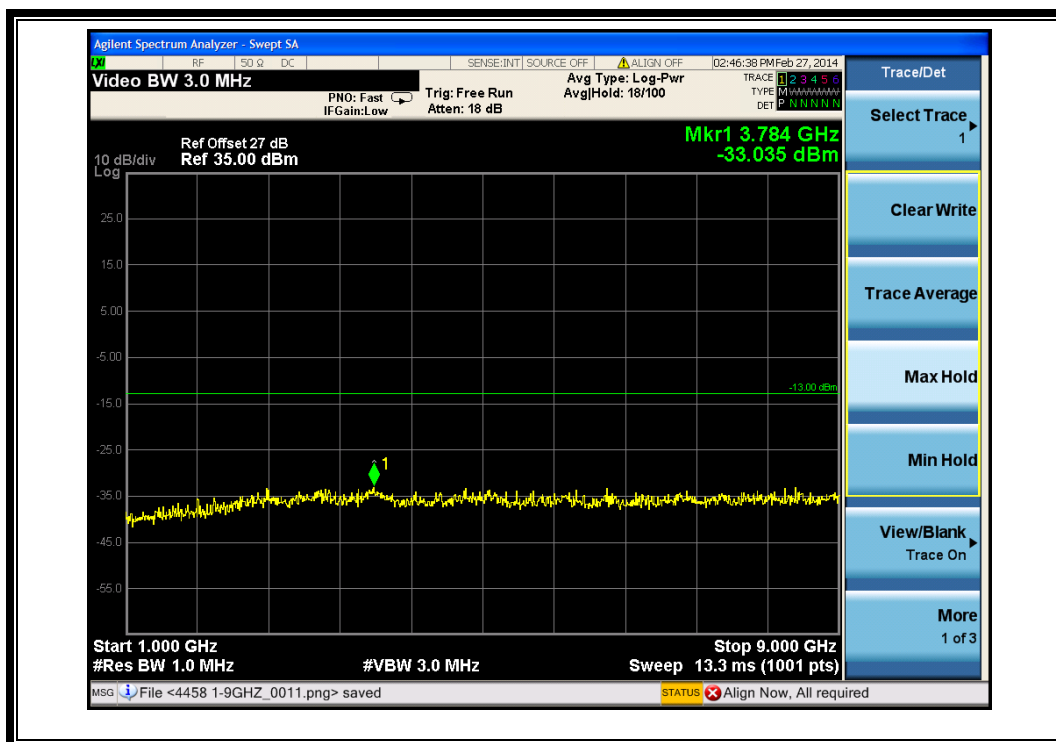
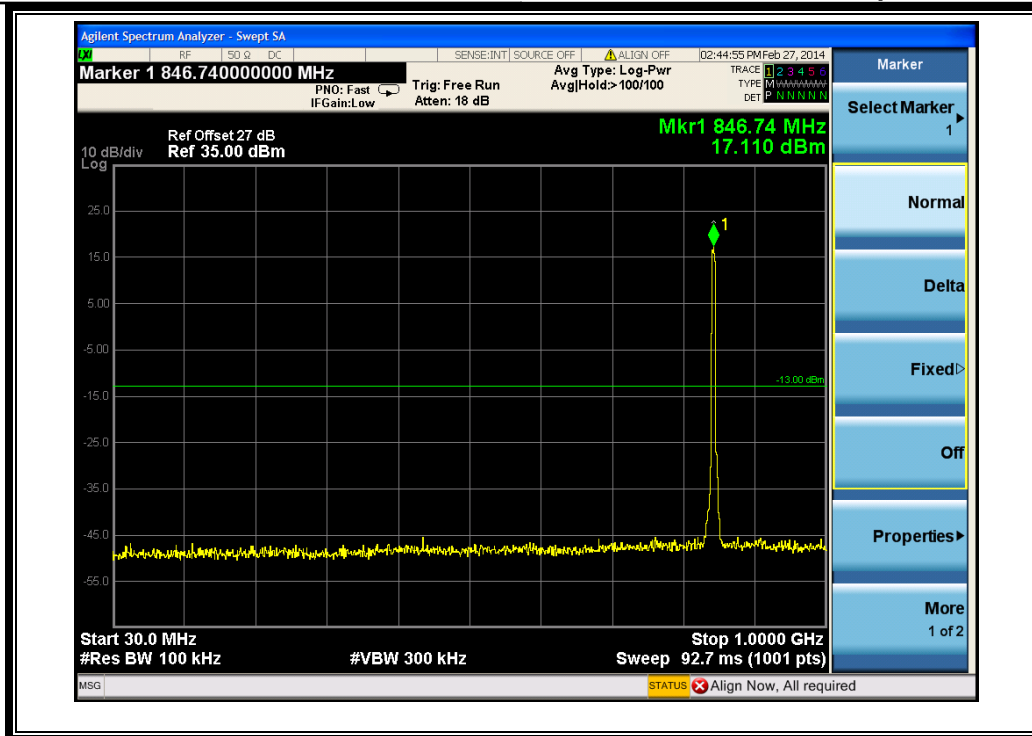




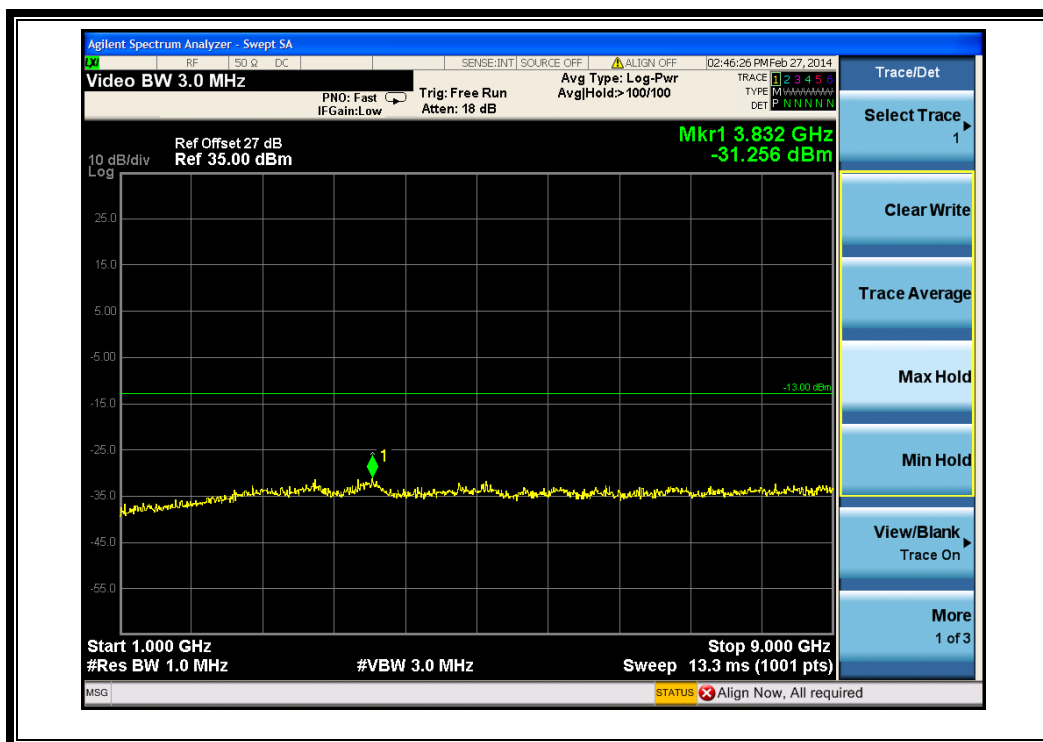
(Plot E2: WCDMA850MHz Channel = 4175, 30MHz to 1GHz)



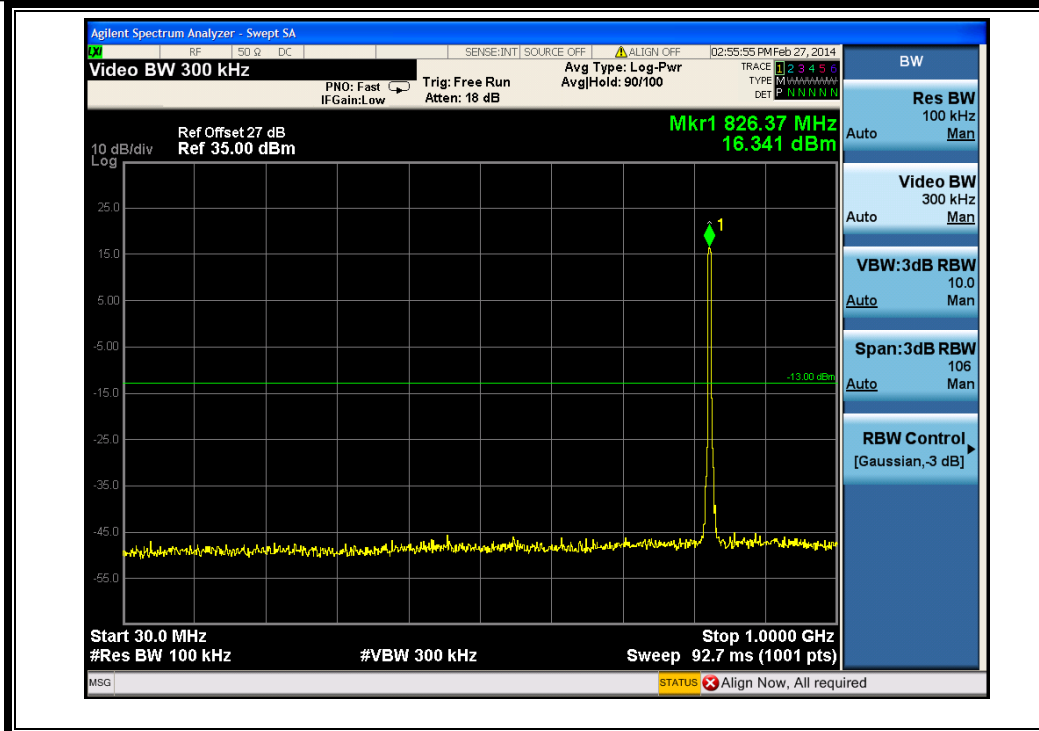
(Plot E2.1: WCDMA850MHz Channel = 4175, 1GHz to 9GHz)



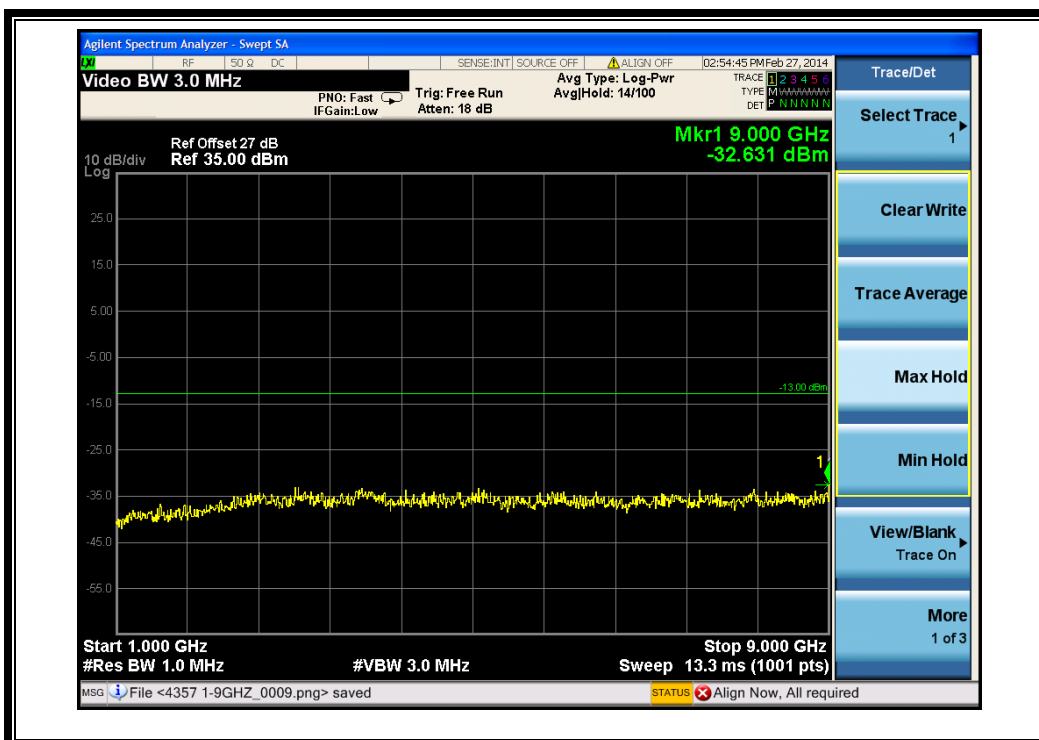
(Plot E3: WCDMA850MHz Channel = 4233, 30MHz to 1GHz)



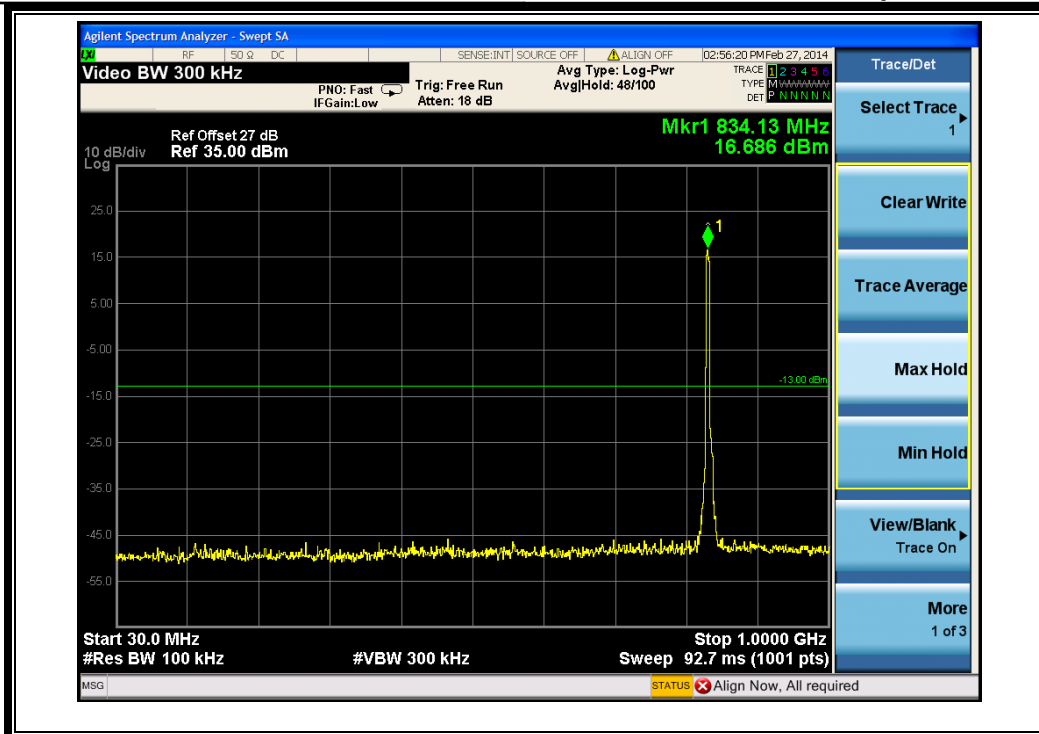
(Plot E3.1: WCDMA850MHz Channel = 4233, 1GHz to 9GHz)



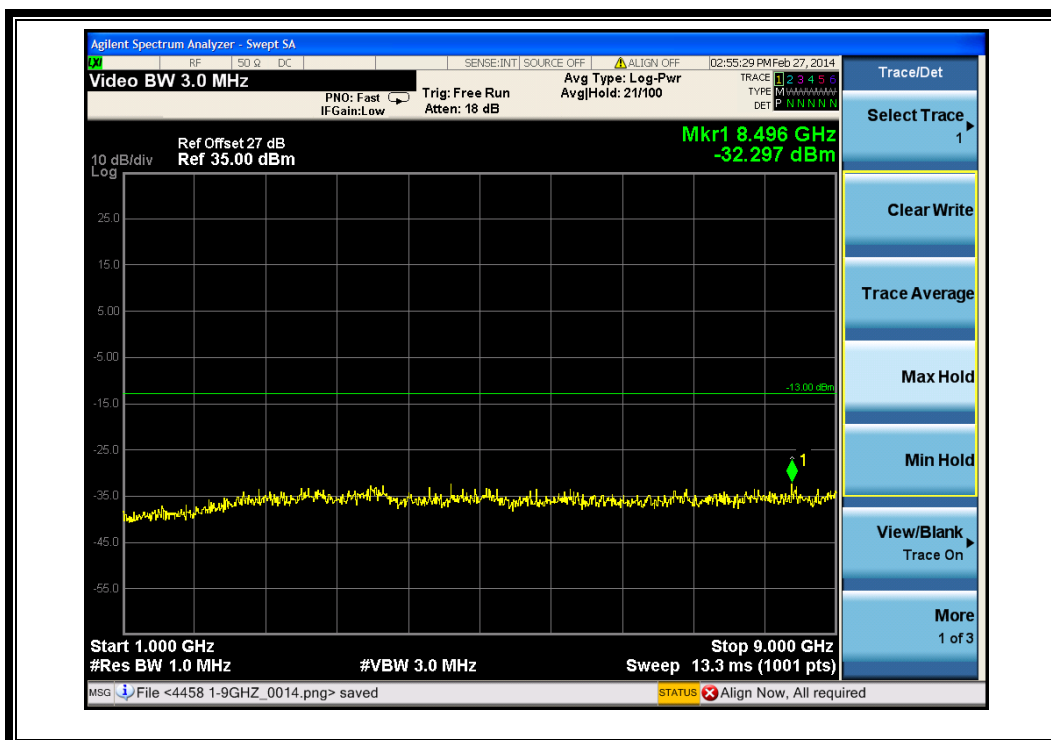
(Plot F 1: HSDPA 850MHz Channel = 4132, 30MHz to 1GHz)



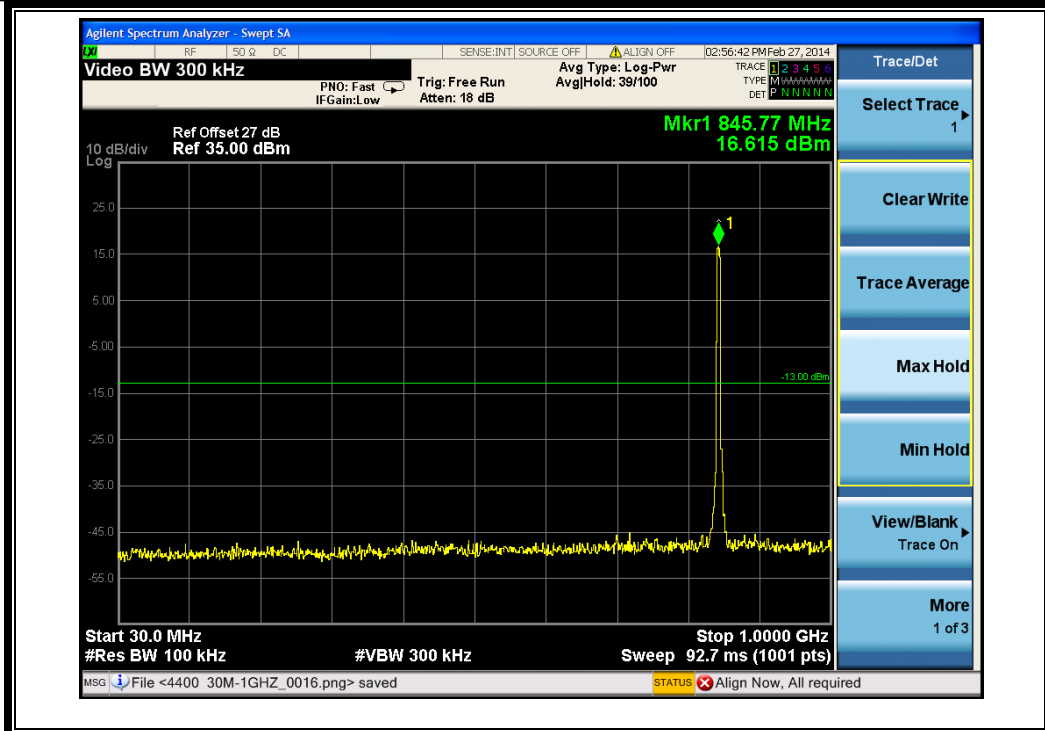
(Plot F1.1: HSDPA 850MHz Channel = 4132, 1GHz to 9GHz)



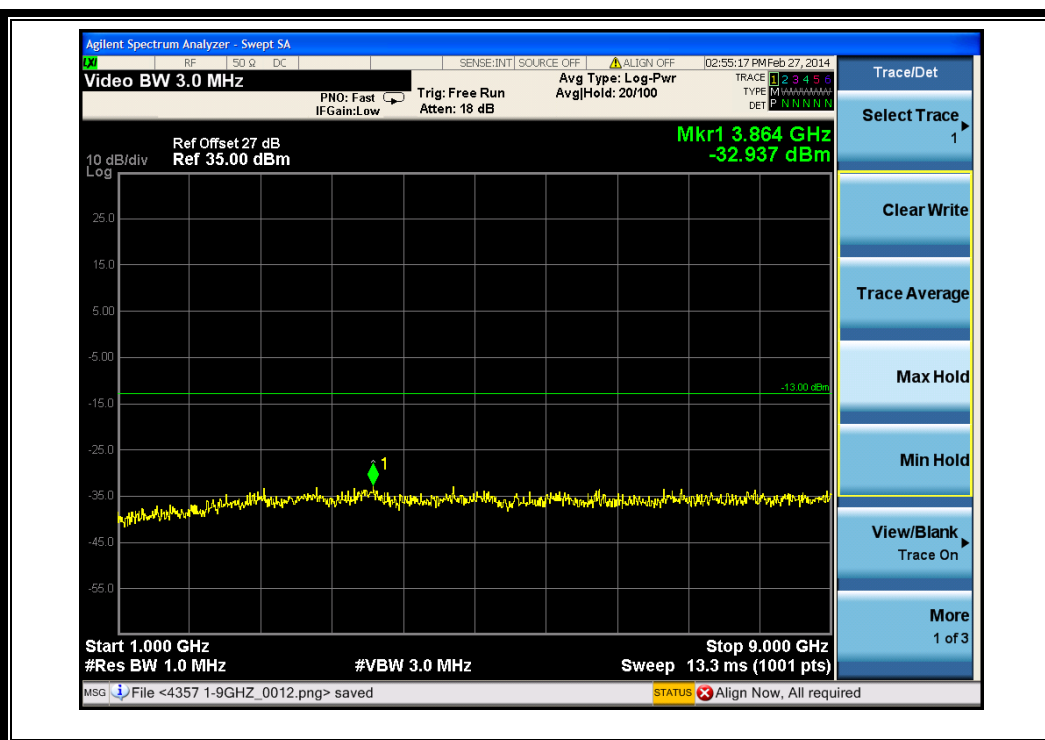
(Plot F 2: HSDPA 850MHz Channel = 4175, 30MHz to 1GHz)



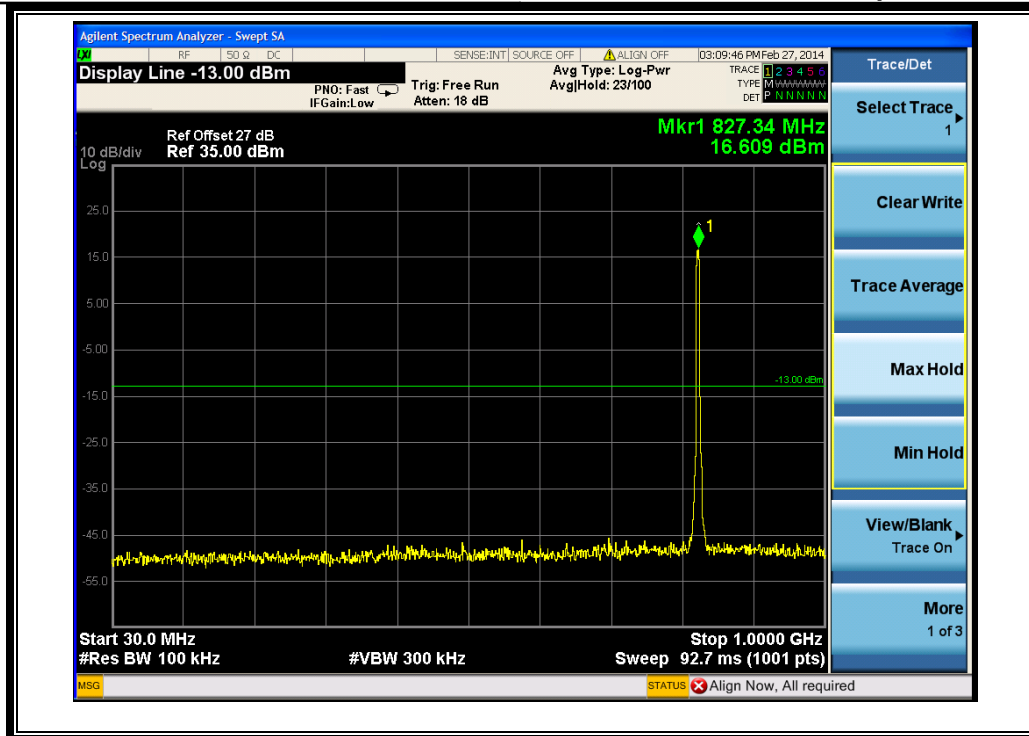
(Plot F2.1: HSDPA 850MHz Channel = 4175, 1GHz to 9GHz)



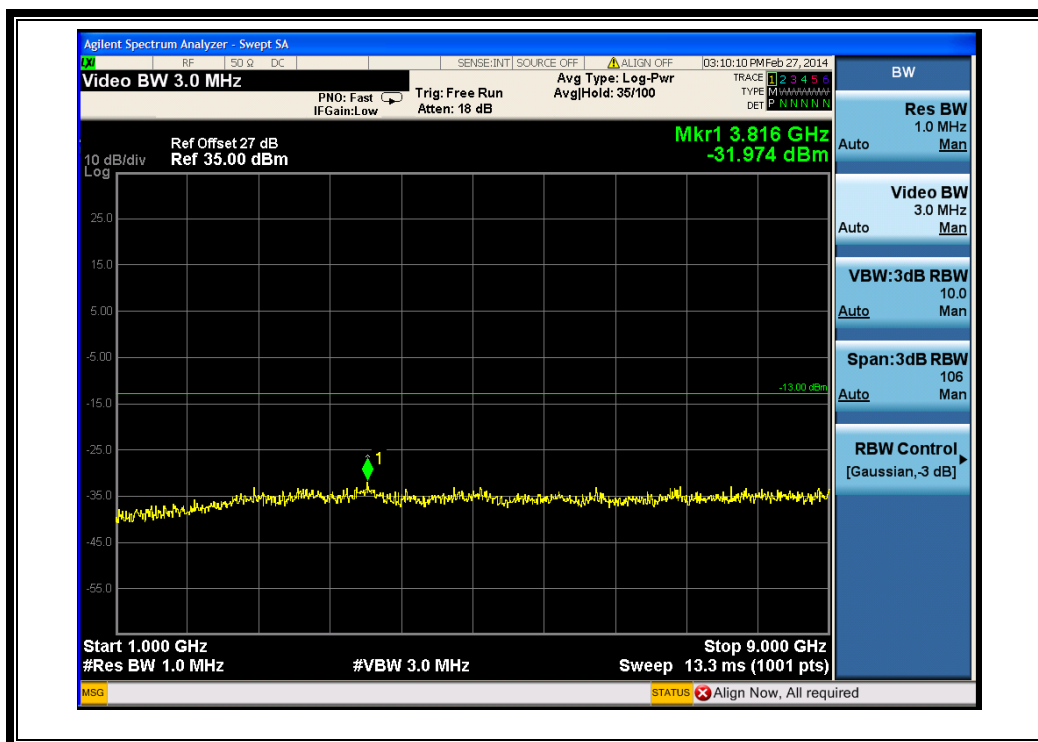
(Plot F 3: HSDPA850MHz Channel = 4233, 30MHz to 1GHz)



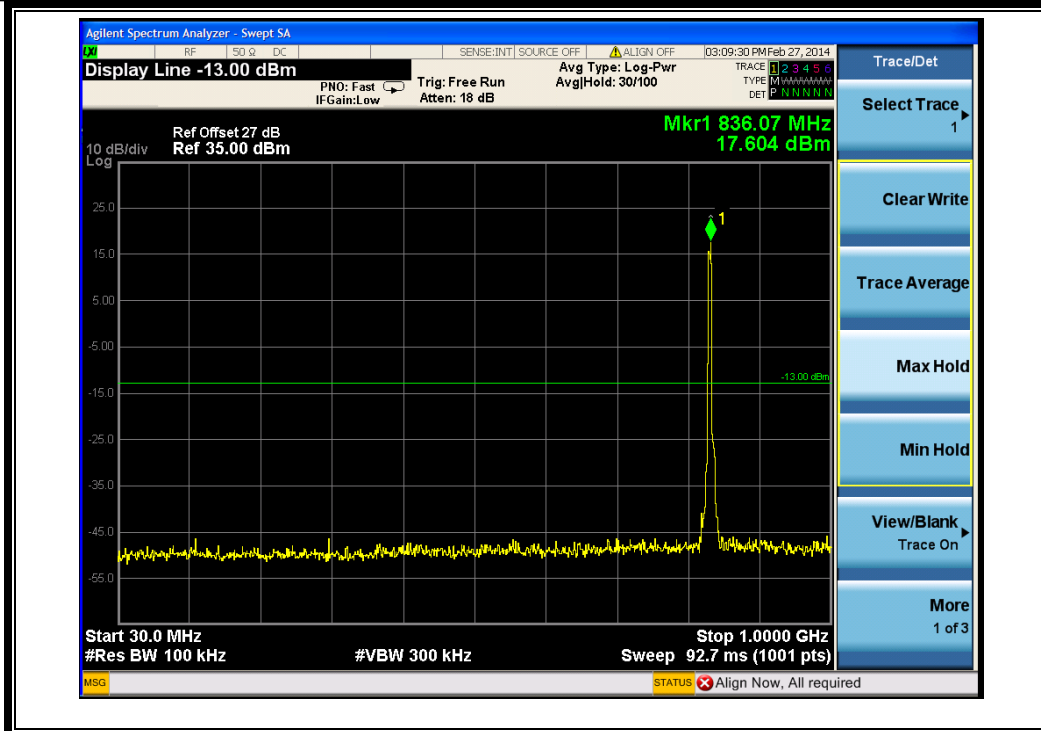
(Plot F3.1: HSDPA850MHz Channel = 4233, 1GHz to 9GHz)



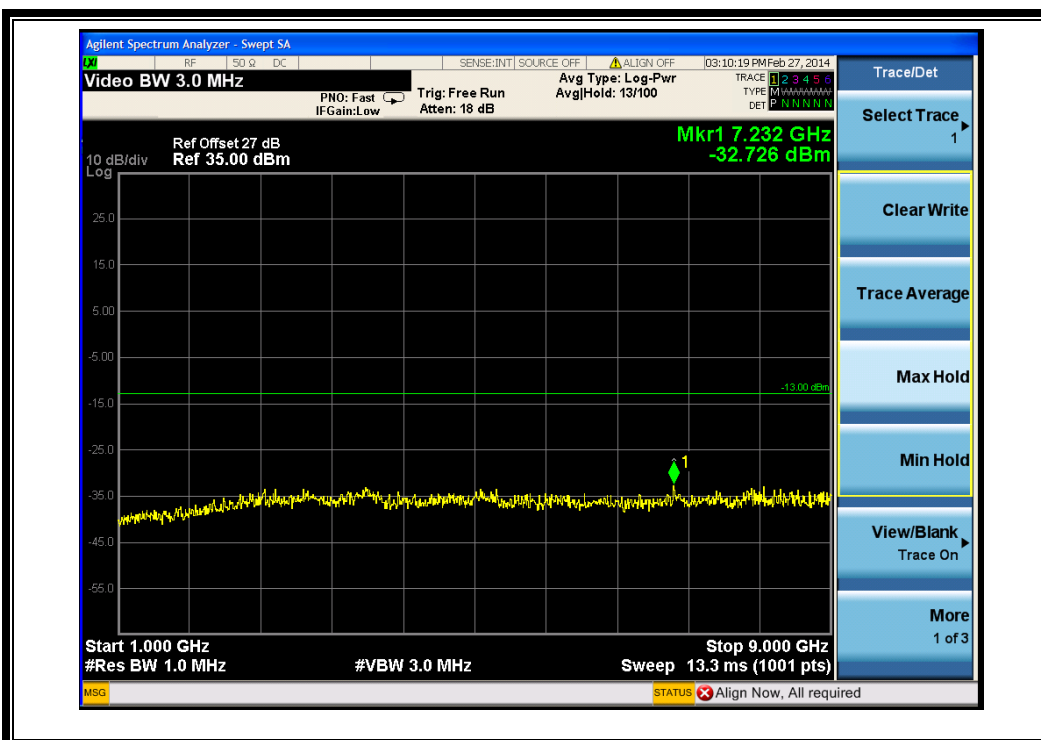
(Plot G1: HSUPA 850MHz Channel = 4132, 30MHz to 1GHz)



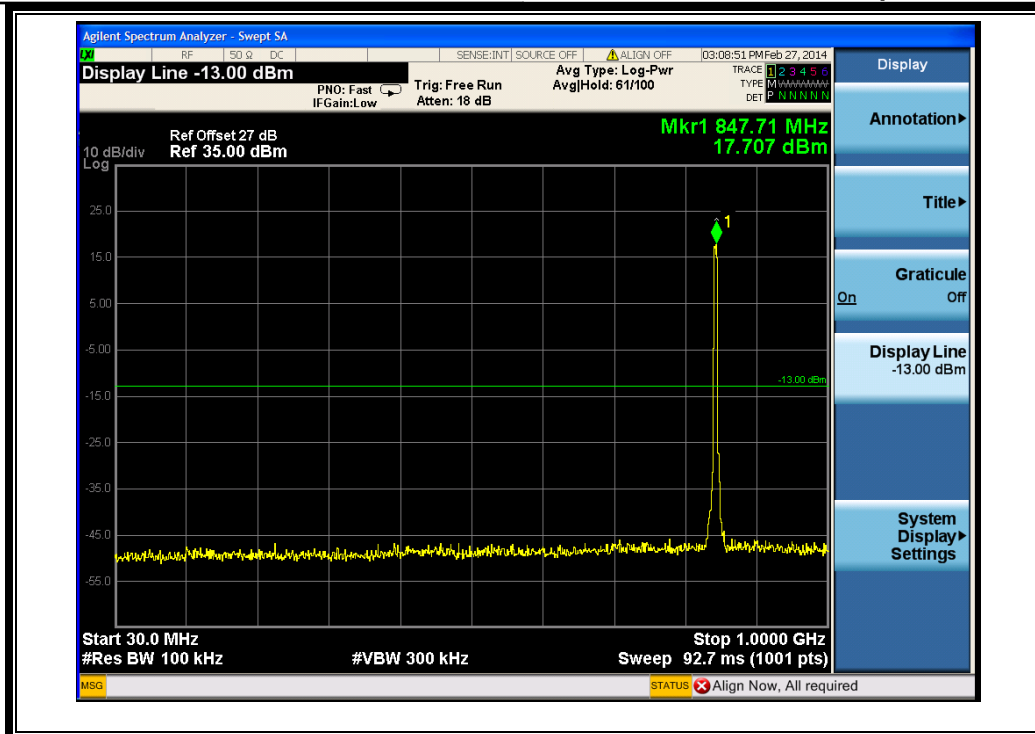
(Plot G1.1: HSUPA 850MHz Channel = 4132, 1GHz to 9GHz)



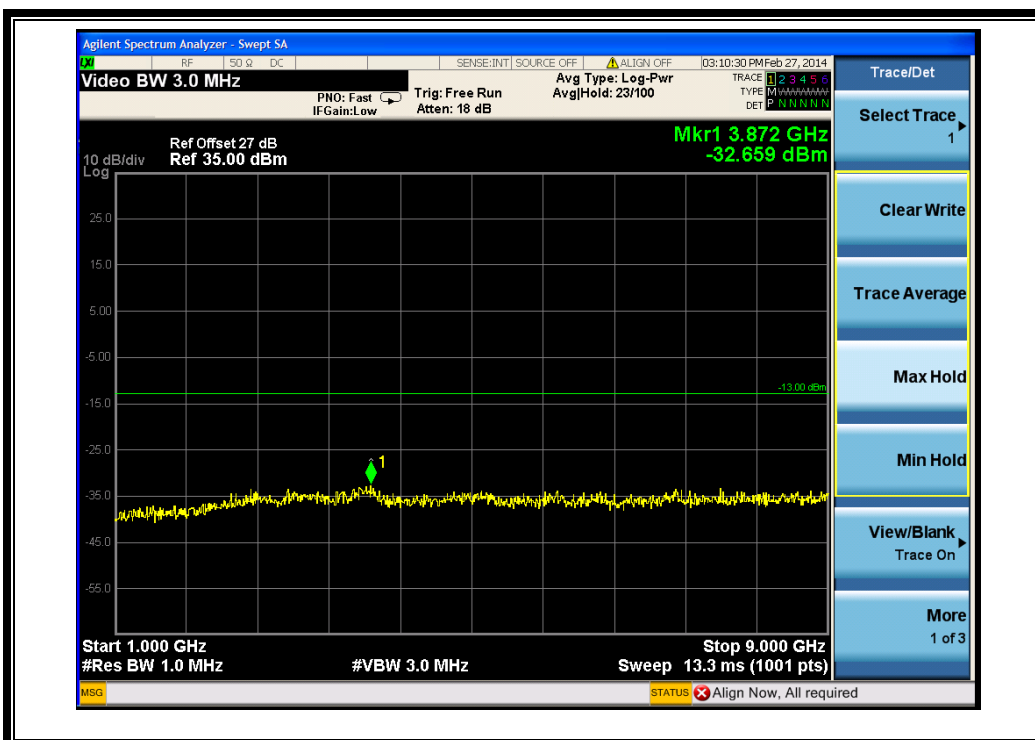
(Plot G 2: HSUPA 850MHz Channel = 4175, 30MHz to 1GHz)



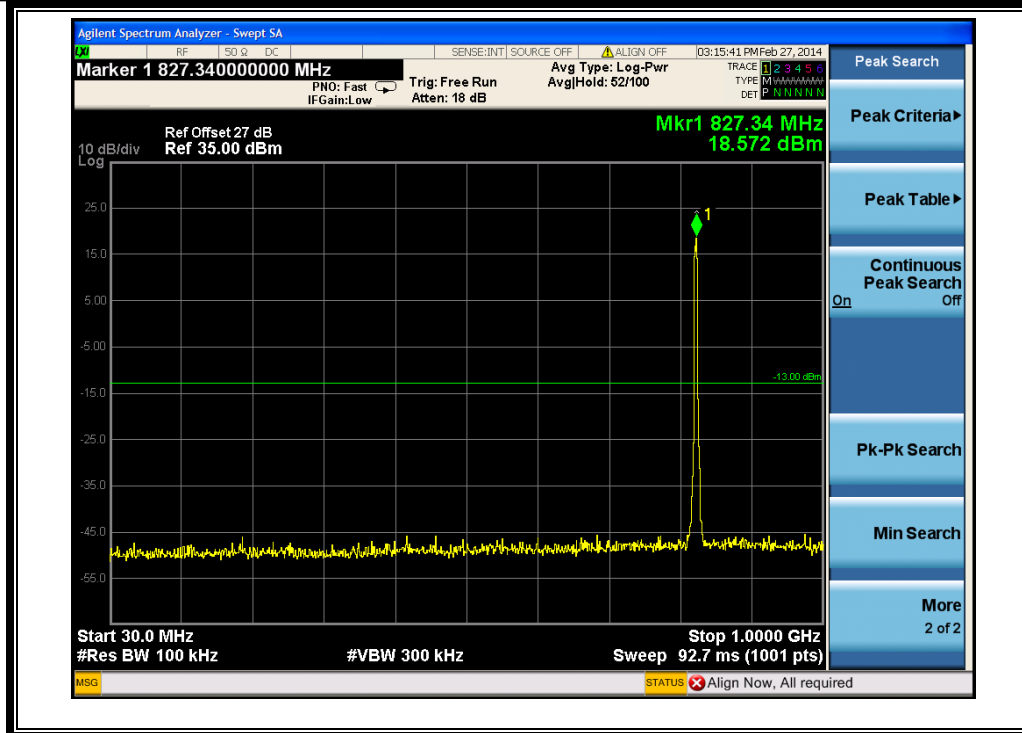
(Plot G2.1: HSUPA 850MHz Channel = 4175, 1GHz to 9GHz)



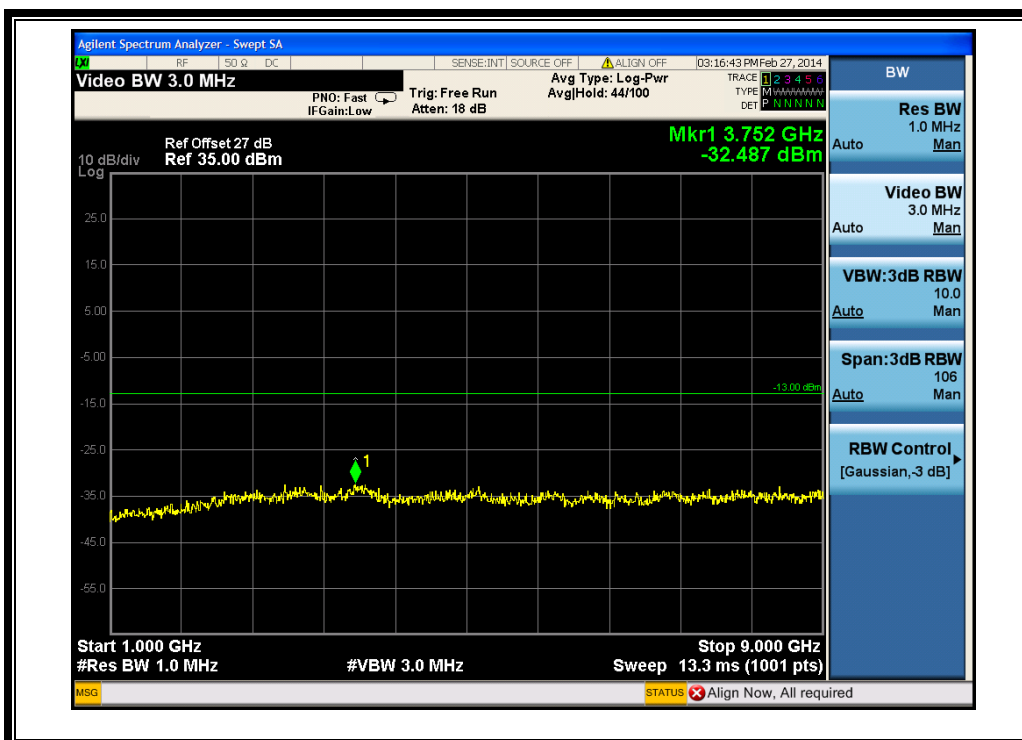
(Plot G 3: HSUPA850MHz Channel = 4233, 30MHz to 1GHz)



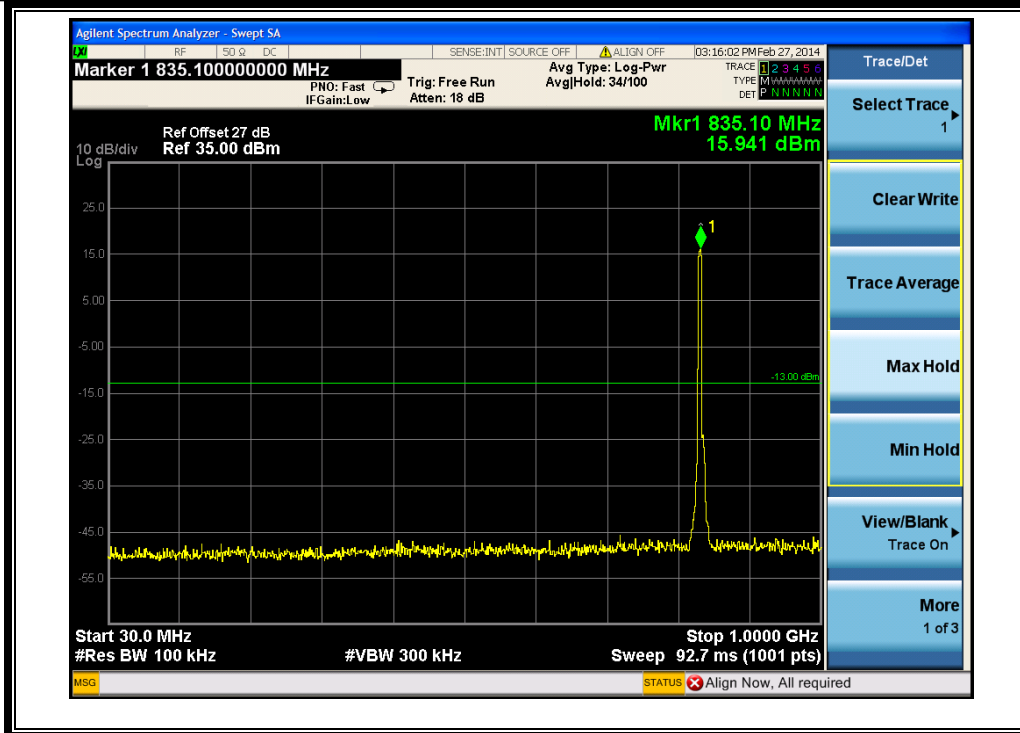
(Plot G3.1: HSUPA850MHz Channel = 4233, 1GHz to 9GHz)



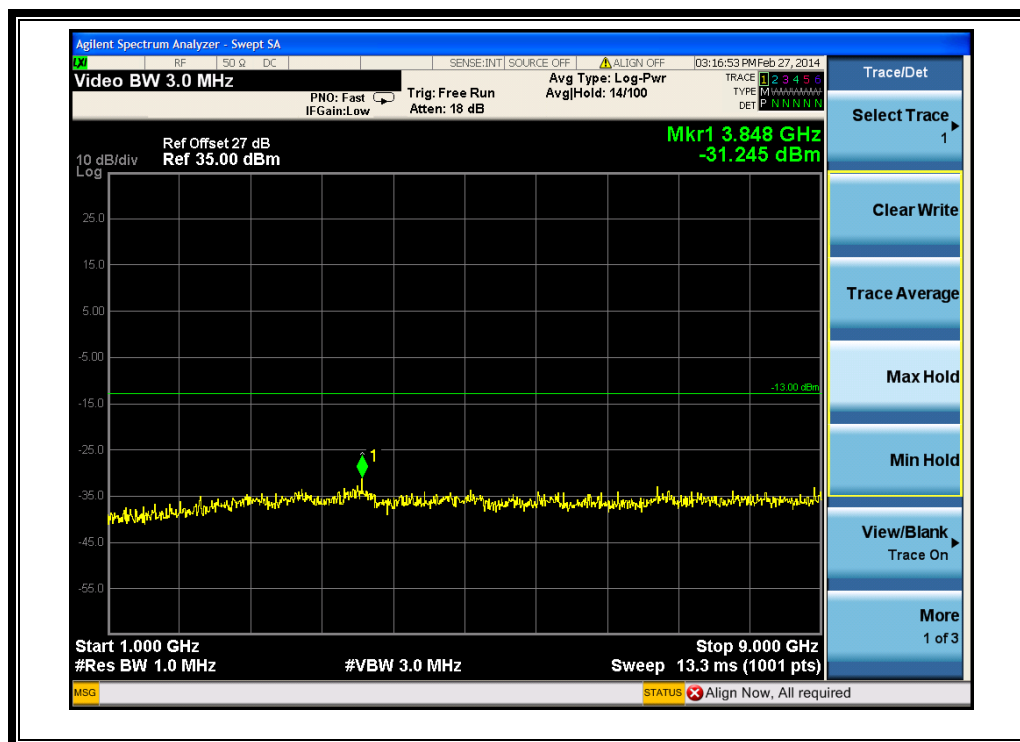
(Plot H 1: HSPA+ 850MHz Channel = 4132, 30MHz to 1GHz)



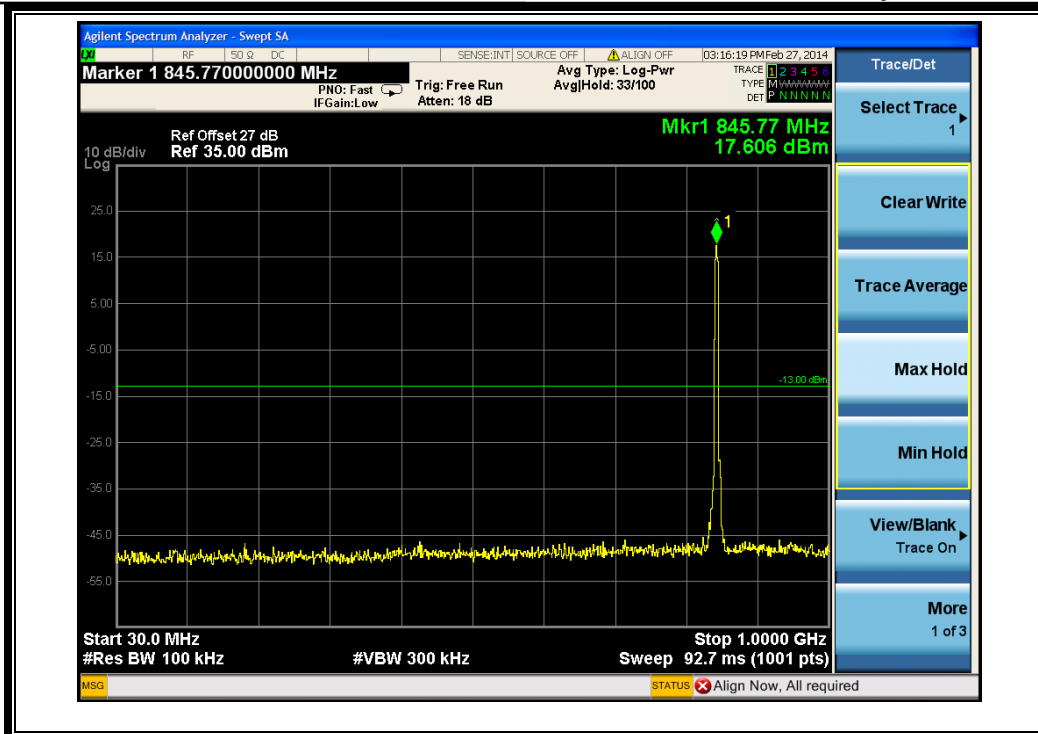
(Plot H1.1: HSPA+ 850MHz Channel = 4132, 1GHz to 9GHz)



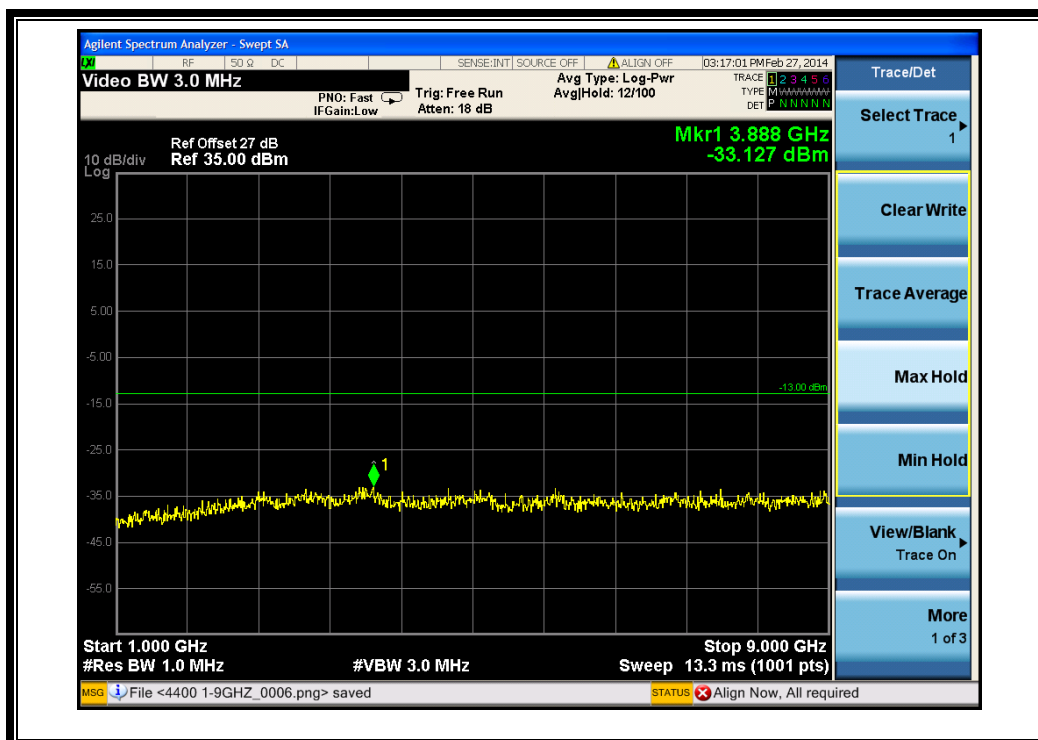
(Plot H 2: HSPA+ 850MHz Channel = 4175, 30MHz to 1GHz)



(Plot H2.1: HSPA+ 850MHz Channel = 4175, 1GHz to 9GHz)



(Plot H 3: HUPA+ 850MHz Channel = 4233, 30MHz to 1GHz)



(Plot H3.1: HSPA+ 850MHz Channel = 4233, 1GHz to 9GHz)

2.6 Band Edge

2.6.1 Requirement

According to FCC section 22.917(b) and FCC section 24.238(b), in the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth (26dB emission bandwidth) of the fundamental emission of the transmitter may be employed.

2.6.2 Test Description

See section 2.1.2 of this report.

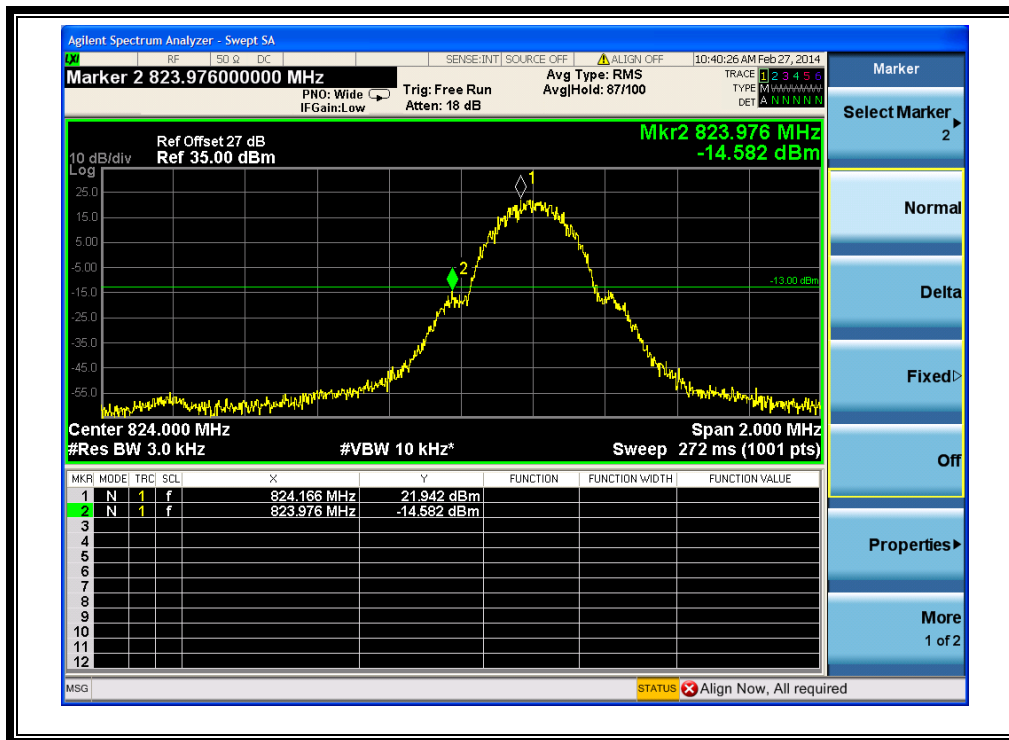
2.6.3 Test Result

The lowest and highest channels are tested to verify the band edge emissions.

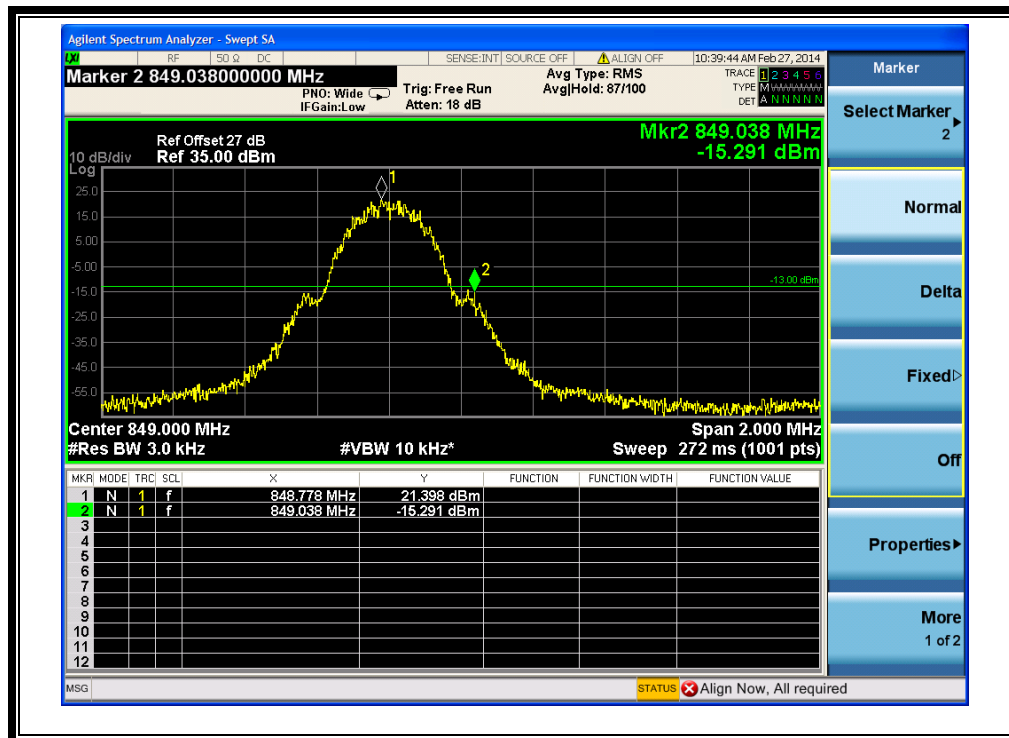
1. Test Verdict:

Band	Channel	Frequency (MHz)	Measured Max. Band Edge Emission (dBm)	Refer to Plot	Limit (dBm)	Verdict
GSM 850MHz	128	824.2	-14.582	Plat A	-13	<u>PASS</u>
	251	848.8	-15.291	Plot B		<u>PASS</u>
GSM 1900MHz	512	1850.2	-16.492	Plat C	-13	<u>PASS</u>
	810	1909.8	-16.914	Plot D		<u>PASS</u>
EDGE 850MHz	128	824.2	-23.074	Plat E	-13	<u>PASS</u>
	251	848.8	-24.181	Plot F		<u>PASS</u>
EDGE 1900MHz	512	1850.2	-23.740	Plat G	-13	<u>PASS</u>
	810	1909.8	-26.534	Plot H		<u>PASS</u>
WCDMA 850MHz	4132	826.4	-23.577	Plat I	-13	<u>PASS</u>
	4233	846.6	-24.050	Plot J		<u>PASS</u>
HSDPA 850MHz	4132	826.4	-24.374	Plat K	-13	<u>PASS</u>
	4233	846.6	-24.876	Plot L		<u>PASS</u>
HSUPA 850MHz	4132	826.4	-23.407	Plat M	-13	<u>PASS</u>
	4233	846.6	-24.543	Plot N		<u>PASS</u>
HSPA+ 850MHz	4132	826.4	-23.505	Plat O	-13	<u>PASS</u>
	4233	846.6	-24.847	Plot P		<u>PASS</u>

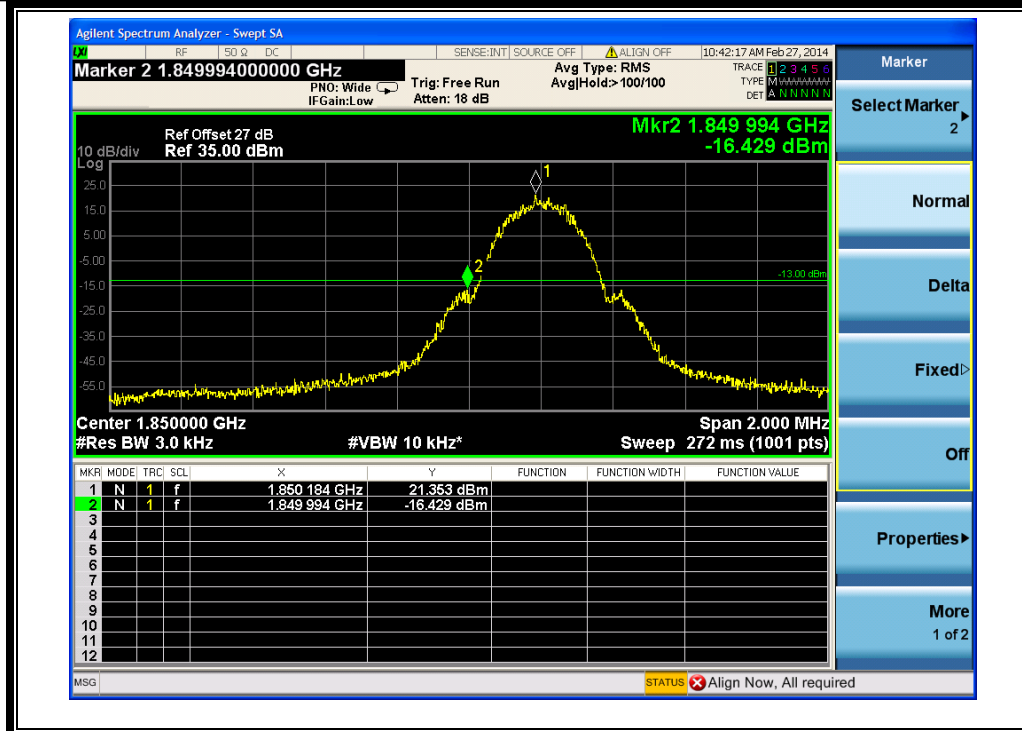
2. Test Plots:



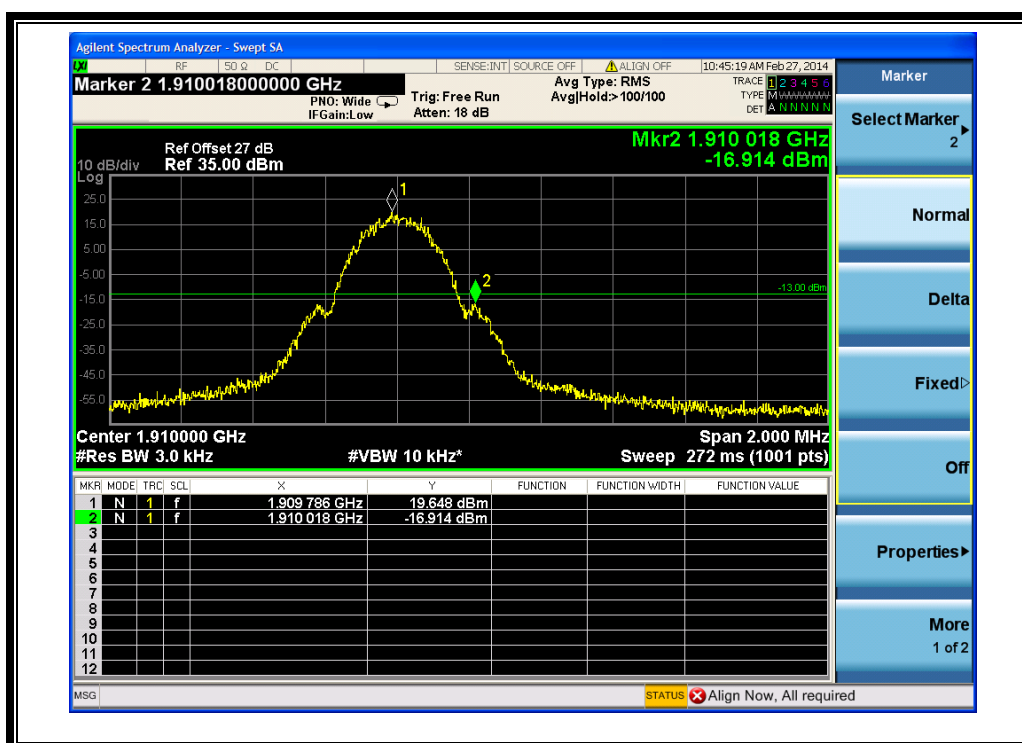
(Plot A: GSM 850 Channel = 128)



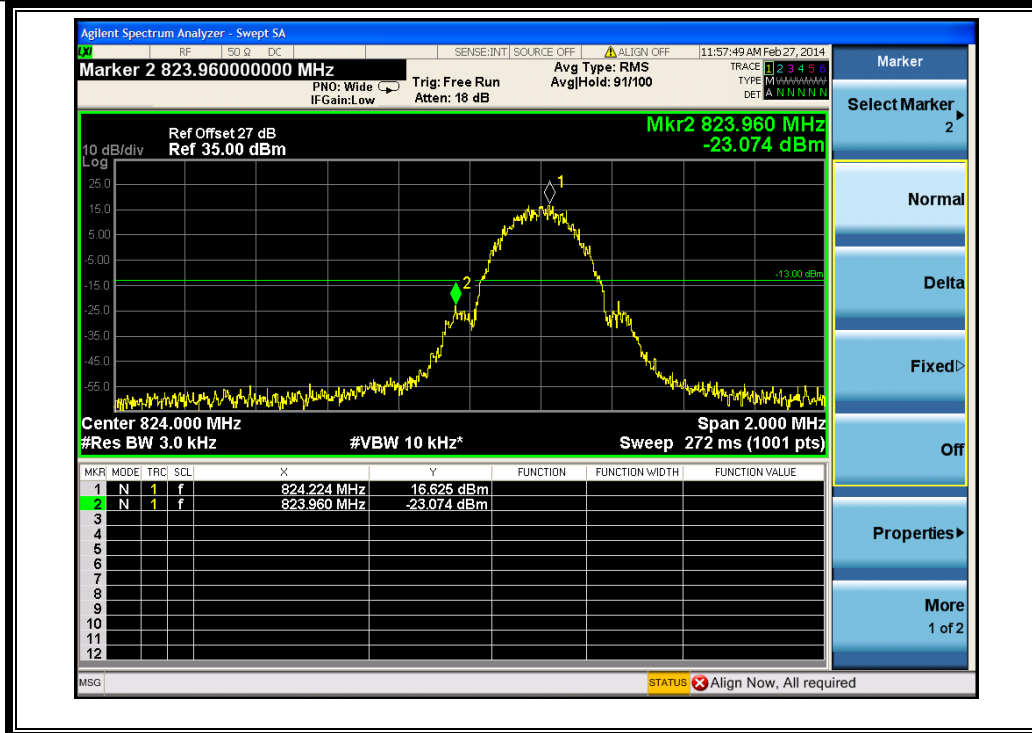
(Plot B: GSM 850 Channel = 251)



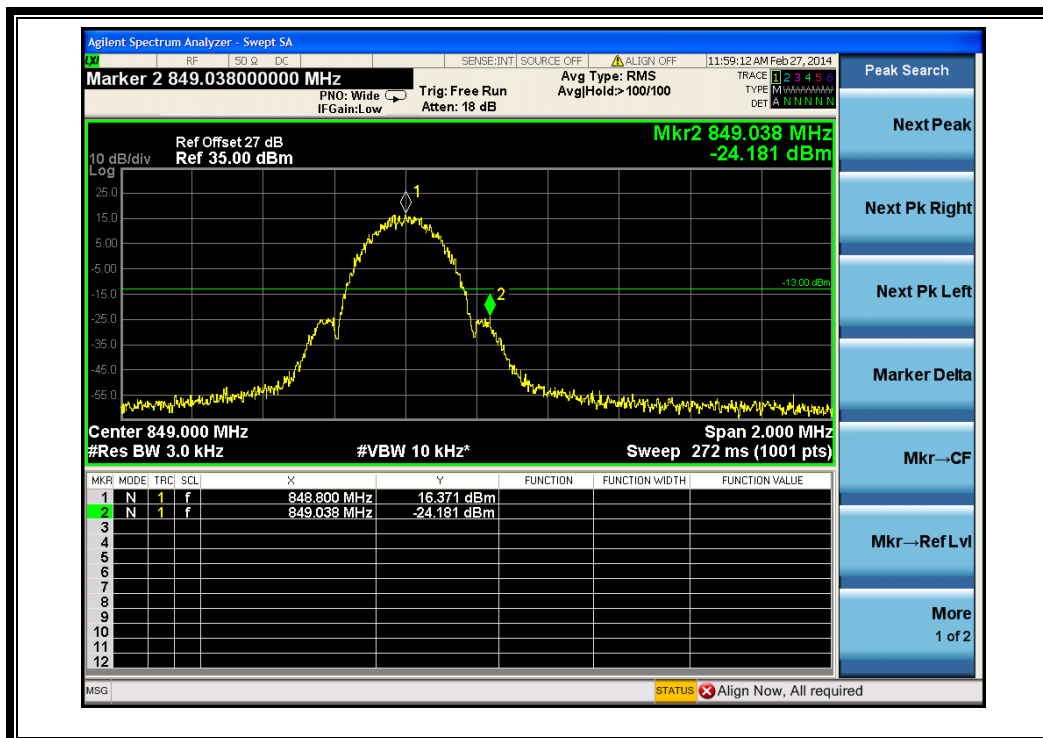
(Plot C: GSM 1900 Channel = 512)



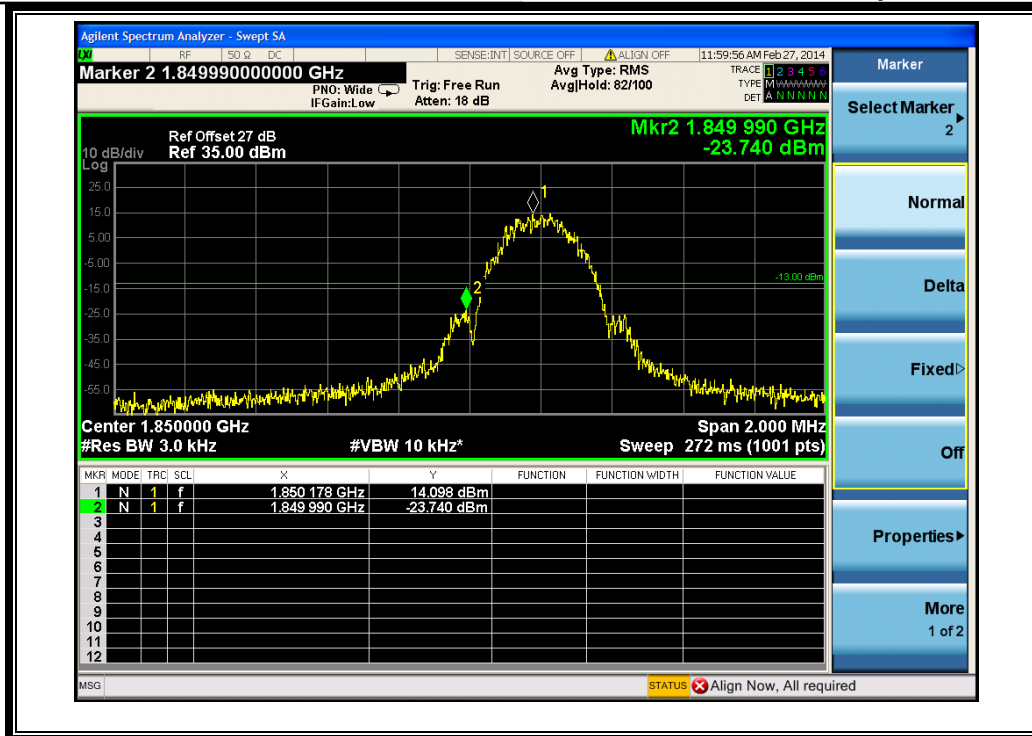
(Plot D: GSM 1900 Channel = 810)



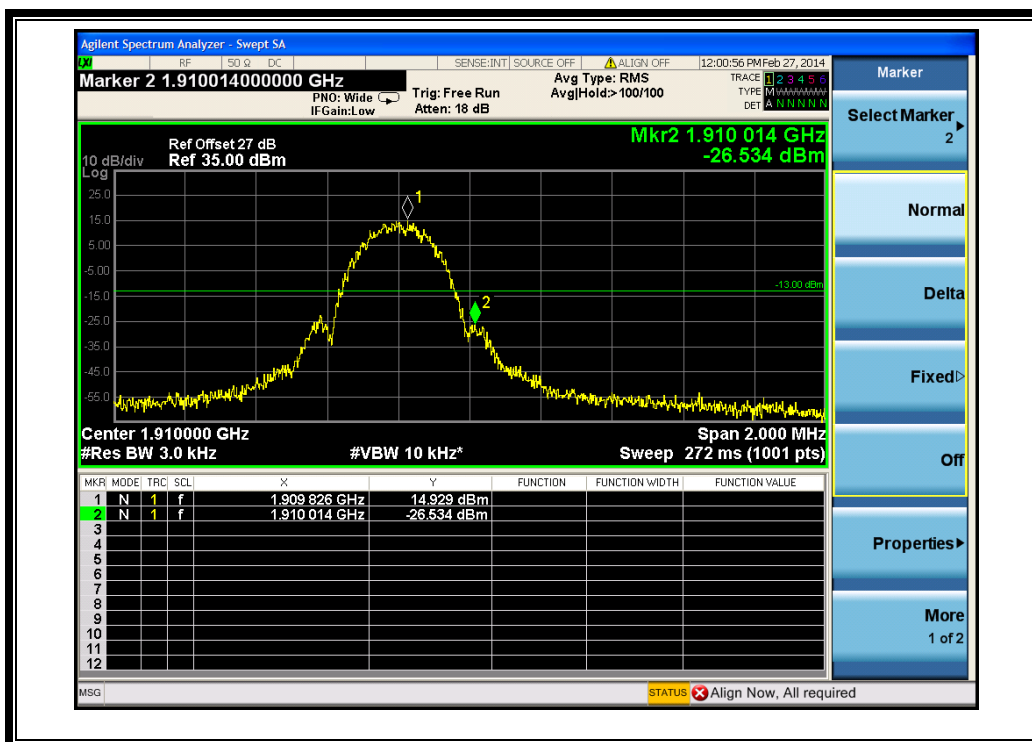
(Plot E: EGPRS 850 Channel = 128)



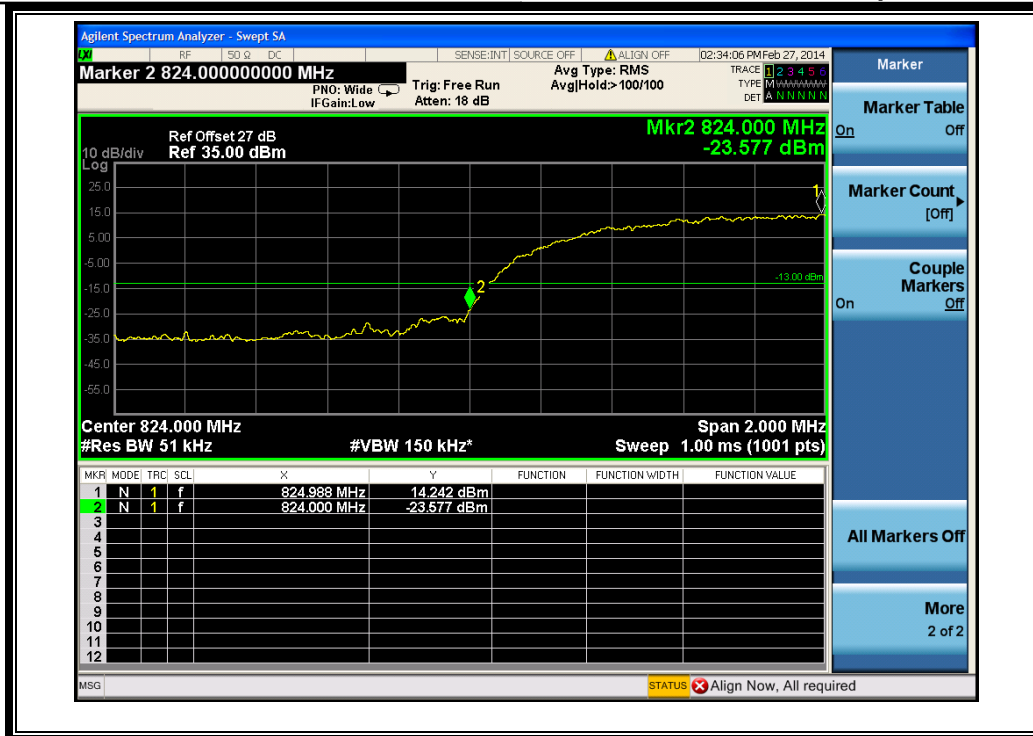
(Plot F: EGPRS 850 Channel = 251)



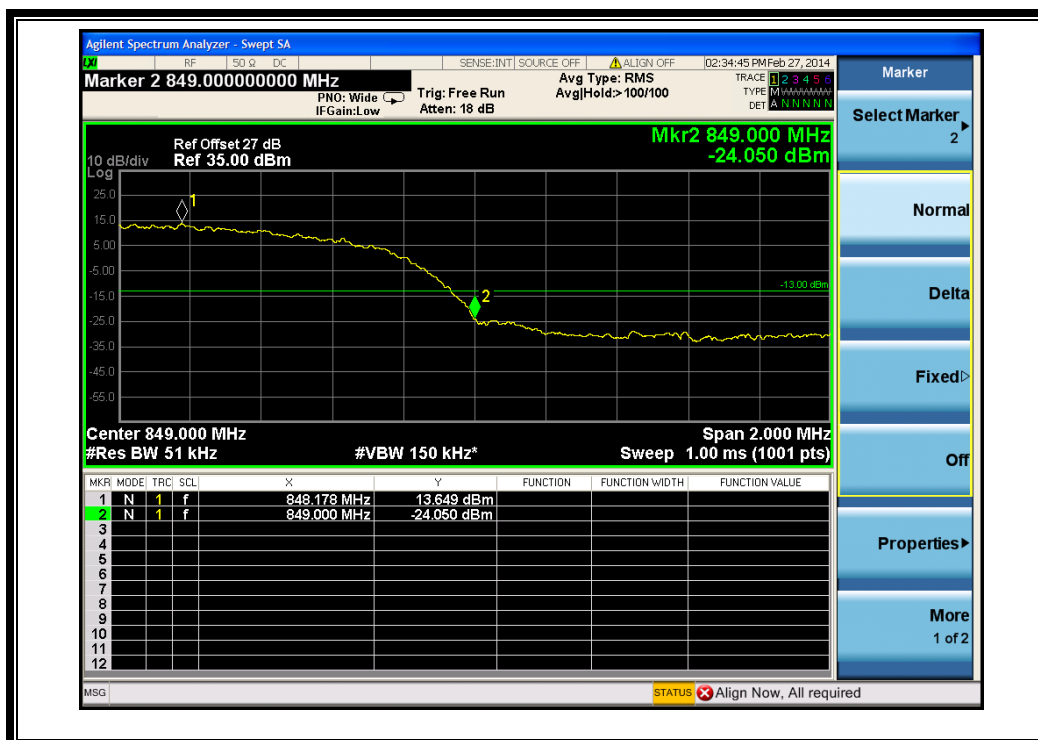
(Plot G: EGPRS 1900 Channel = 512)



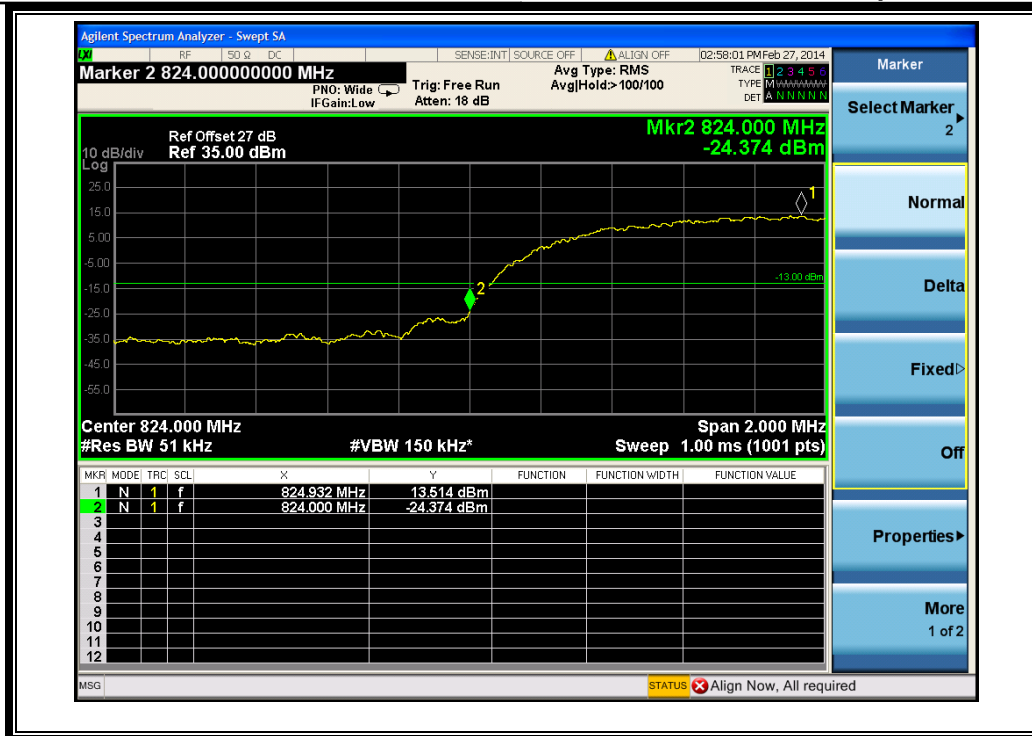
(Plot H: EGPRS 1900 Channel = 810)



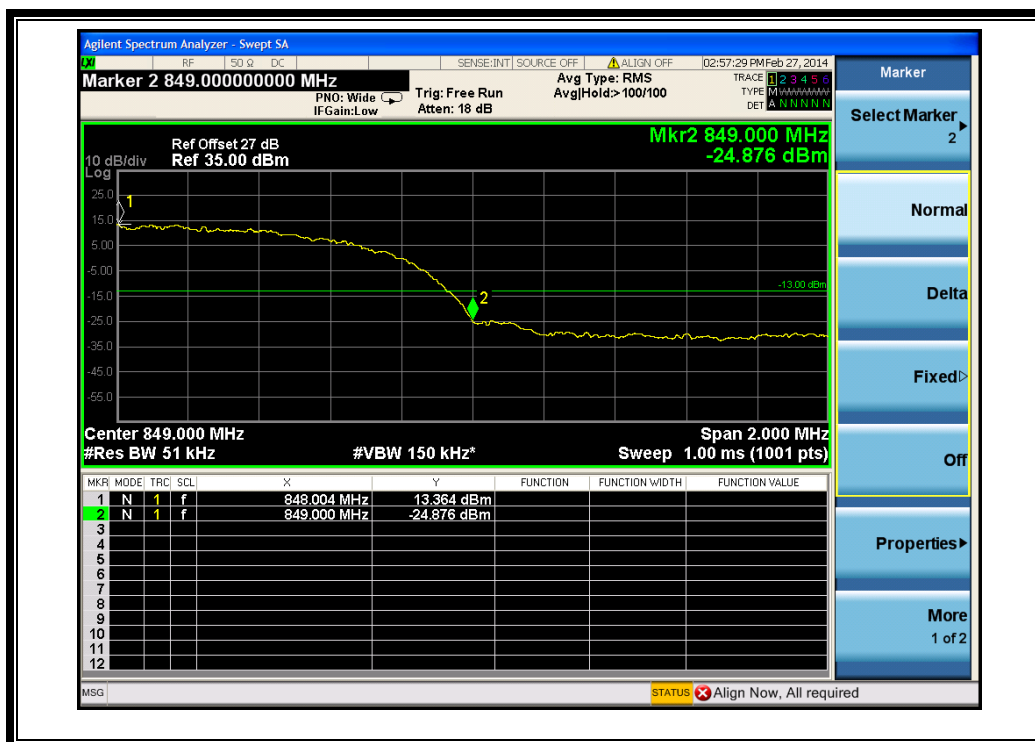
(Plot I: WCDMA 850 Channel = 4132)



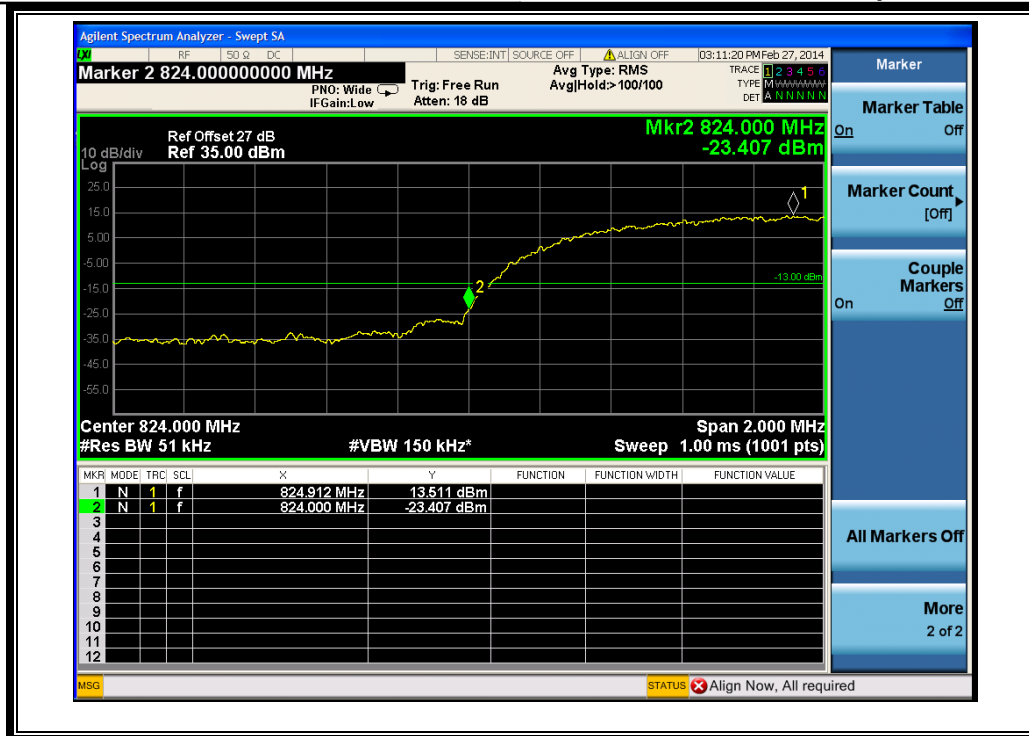
(Plot J: WCDMA 850 Channel = 4233)



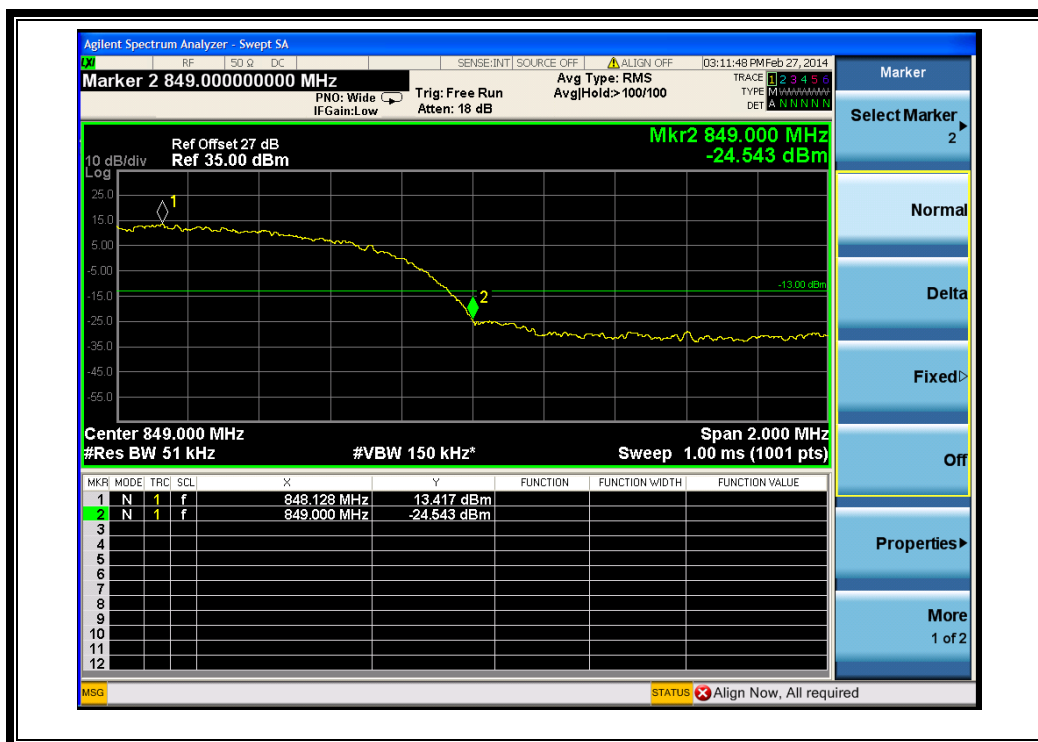
(Plot K: HSDPA 850 Channel = 4132)



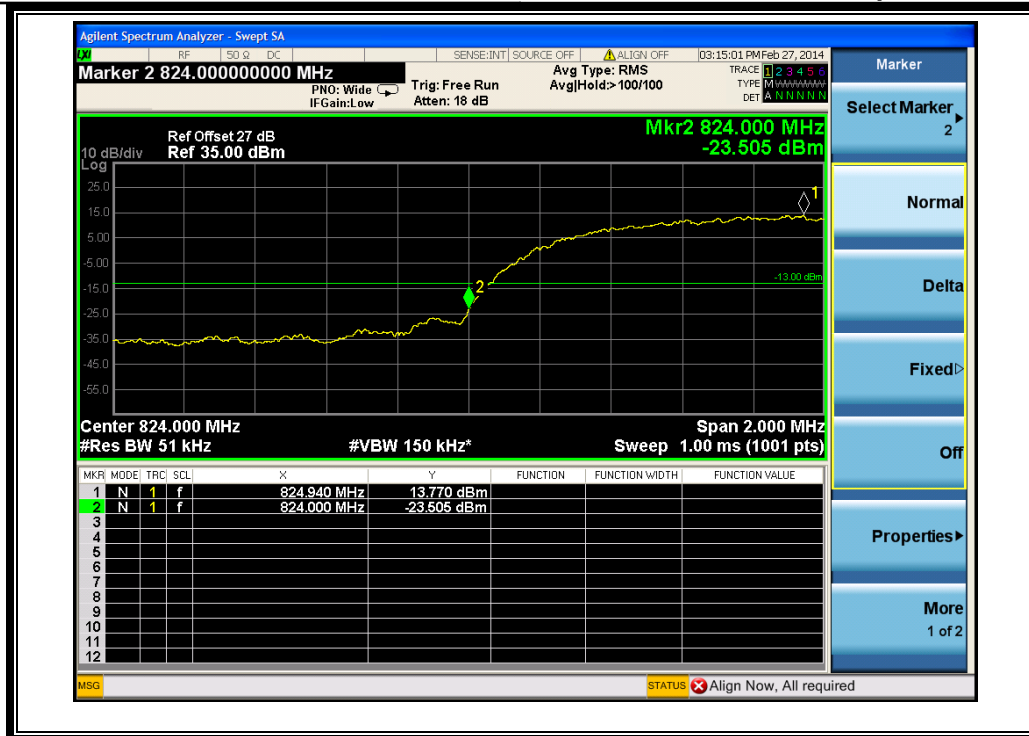
(Plot L: HSDPA850 Channel = 4233)



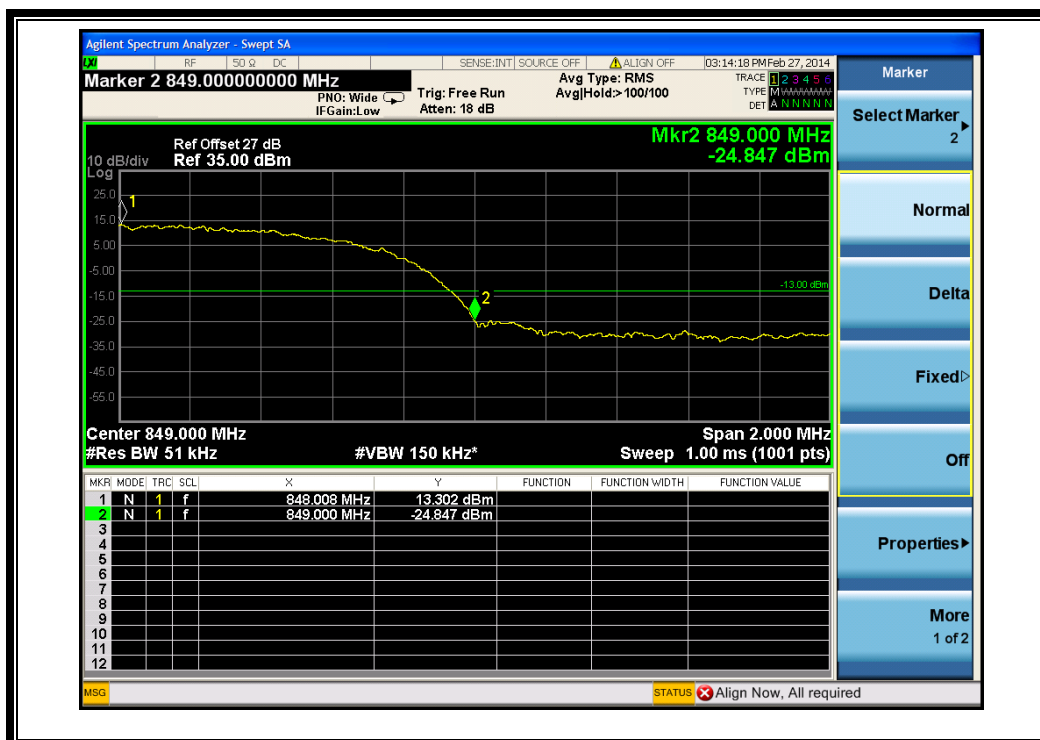
(Plot M: HSUPA 850 Channel = 4132)



(Plot N: HSUPA 850 Channel = 4233)



(Plot O: HSPA+ 850 Channel = 4132)



(Plot P: HSPA+ 850 Channel = 4233)

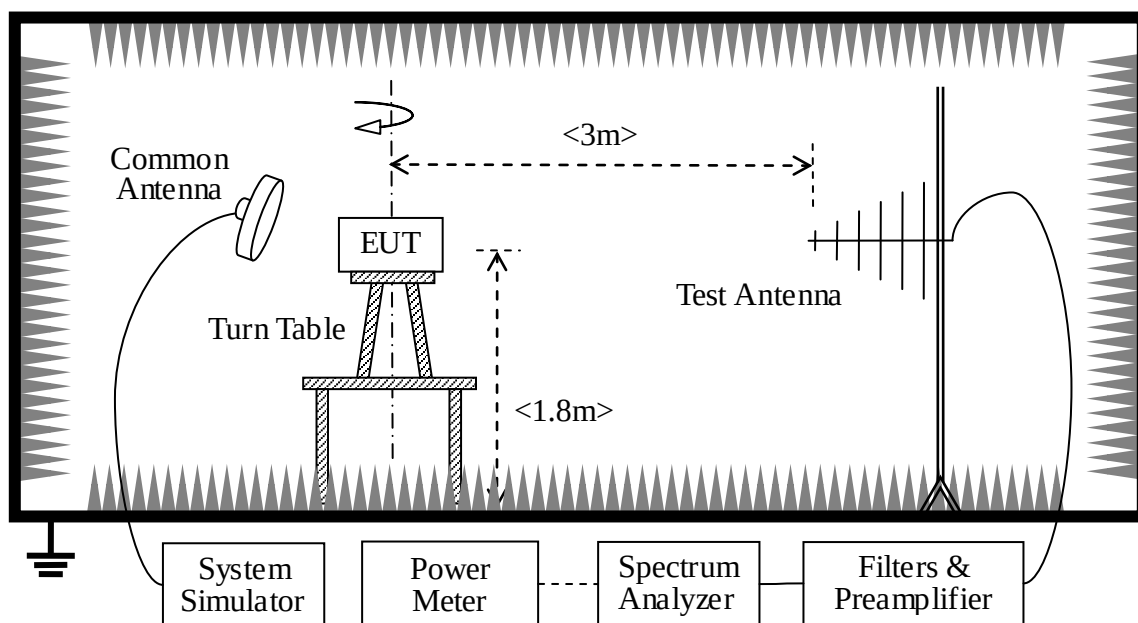
2.7 Transmitter Radiated Power (EIRP/ERP)

2.7.1 Requirement

According to FCC section 22.913, the Effective Radiated Power (ERP) of mobile transmitters and auxiliary test transmitters must not exceed 7Watts, and FCC section 24.232, the broadband PCS mobile station is limited to 2 Watts e.i.r.p. peak power.

2.7.2 Test Description

1. Test Setup:



The EUT, which is powered by the Battery charged with the AC Adapter, is located in a 3m Full-Anechoic Chamber; the cable loss, air loss and so on of the site as factors are pre-calibrated using the "Substitution" method, and calculated to correct the reading.

A call is established between the EUT and the SS via a Common Antenna. The EUT is commanded by the SS to operate at the maximum and minimum output power (i.e. GSM850MHz band Power Control Level (PCL) = 5/19 and Power Class = 4, GSM1900MHz band Power Control Level (PCL) = 0/15 and Power Class = 1), and only the test result of the maximum output power was recorded.

- GSM Maximum RF output power: GSM 850 32.57dBm, GSM 1900 29.14dBm, EGPRS 850 30.00dBm, EGPRS 1900 28.55 dBm, WCDMA 850 24.55dBm, Please refer to section 2.1.3 of this report.

- Step size (dB): 3dB

- Minimum RF power: GSM 850 3.1dBm, GSM 1900 0.3dBm, EGPRS 850 3.1dBm, EGPRS 1900 0.21dBm, WCDMA 850 0.39dBm.

The Test Antenna is a Bi-Log one (used for 30MHz to 1GHz) or a Horn one (used for above 3GHz), and it's located at the same height as the EUT. The Filters consists of Notch Filters and High Pass Filter.

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
Full-Anechoic Chamber	Albatross	9m*6m*6m	(n.a.)	2013.05	2014.05
Test Antenna - Bi-Log	Schwarzbeck	VULB 9163	9163-274	2013.05	2014.05
Test Antenna - Horn	Schwarzbeck	BBHA 9120C	9120C-384	2013.05	2014.05
Substitution Antenna	Schwarzbeck	BBHA 9120C	9120C-384	2013.05	2014.05
Pre-AMPs	lucix	S10M100L3802	S020180L3203	2013.05	2014.05
Notch Filter	COM-MW	ZBSF-C836.5-25-X	NA	2013.05	2014.05
Notch Filter	COM-MW	ZBSF-C1747.5-75-X2	NA	2013.05	2014.05
Notch Filter	COM-MW	ZBSF-C1880-60-X2	NA	2013.05	2014.05

2.7.3 Test Result

The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. The lowest, middle and highest channels are tested.

The substitution corrections are obtained as described below:

$$A_{\text{SUBST}} = P_{\text{SUBST_TX}} - P_{\text{SUBST_RX}} - L_{\text{SUBST_CABLES}} + G_{\text{SUBST_TX_ANT}}$$

$$A_{\text{TOT}} = L_{\text{CABLES}} + A_{\text{SUBST}}$$

Where A_{SUBST} is the final substitution correction including receive antenna gain.

$P_{\text{SUBST_TX}}$ is signal generator level,

$P_{\text{SUBST_RX}}$ is receiver level,

$L_{\text{SUBST_CABLES}}$ is cable losses including TX cable,

$G_{\text{SUBST_TX_ANT}}$ is substitution antenna gain.

A_{TOT} is total correction factor including cable loss and substitution correction

During the test, the data of A_{TOT} was added in the Test Spectrum Analyze, so Spectrum Analyze reading is the final values which contain the data of A_{TOT} .

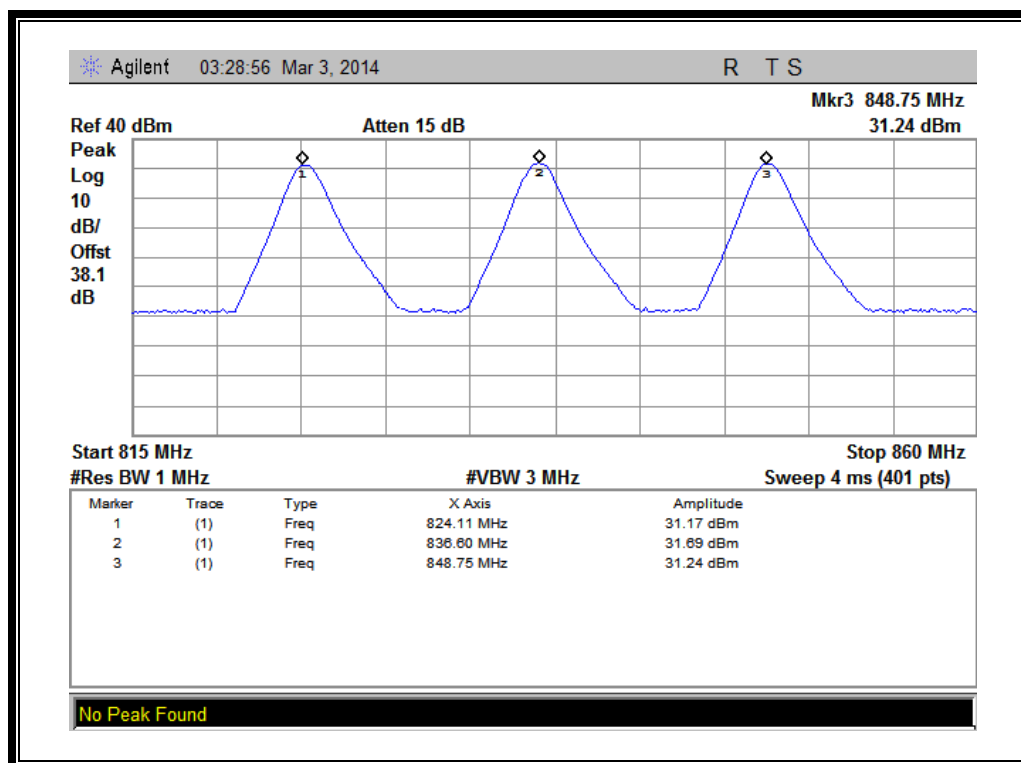
1. GSM Model Test Verdict:

Band	Channel	Frequency (MHz)	PCL	Measured ERP			Limit		Verdict
				dBm	W	Refer to Plot	dBm	W	
GSM 850MHz	128	824.20	5	31.17	1.309	Plot A	38.5	7	<u>PASS</u>
	190	836.60	5	31.69	1.476				<u>PASS</u>
	251	848.80	5	31.24	1.330				<u>PASS</u>
GPRS 850MHz	128	824.20	5	31.23	1.327	Plot B ^{Note 1}	38.5	7	<u>PASS</u>
	190	836.60	5	31.81	1.517				<u>PASS</u>
	251	848.80	5	31.21	1.321				<u>PASS</u>
EGPRS 850MHz	128	824.20	5	31.14	1.300	Plot C ^{Note 1}	38.5	7	<u>PASS</u>
	190	836.60	5	31.05	1.274				<u>PASS</u>
	251	848.80	5	31.27	1.341				<u>PASS</u>
Band	Channel	Frequency (MHz)	PCL	Measured EIRP			Limit		Verdict
				dBm	W	Refer to Plot	dBm	W	
GSM 1900MHz	512	1850.2	0	29.44	0.879	Plot D	33	2	<u>PASS</u>
	661	1880.0	0	29.78	0.951				<u>PASS</u>
	810	1909.8	0	29.51	0.893				<u>PASS</u>
GPRS 1900MHz	512	1850.2	0	29.49	0.889	Plot E ^{Note 1}	33	2	<u>PASS</u>
	661	1880.0	0	29.72	0.938				<u>PASS</u>
	810	1909.8	0	29.49	0.889				<u>PASS</u>
EGPRS 1900MHz	512	1850.2	0	29.49	0.889	Plot F ^{Note 1}	33	2	<u>PASS</u>
	661	1880.0	0	29.57	0.906				<u>PASS</u>
	810	1909.8	0	29.19	0.831				<u>PASS</u>
Note 1:	For the GPRS and EGPRS model, all the slots were tested and just the worst data was record in this report.								

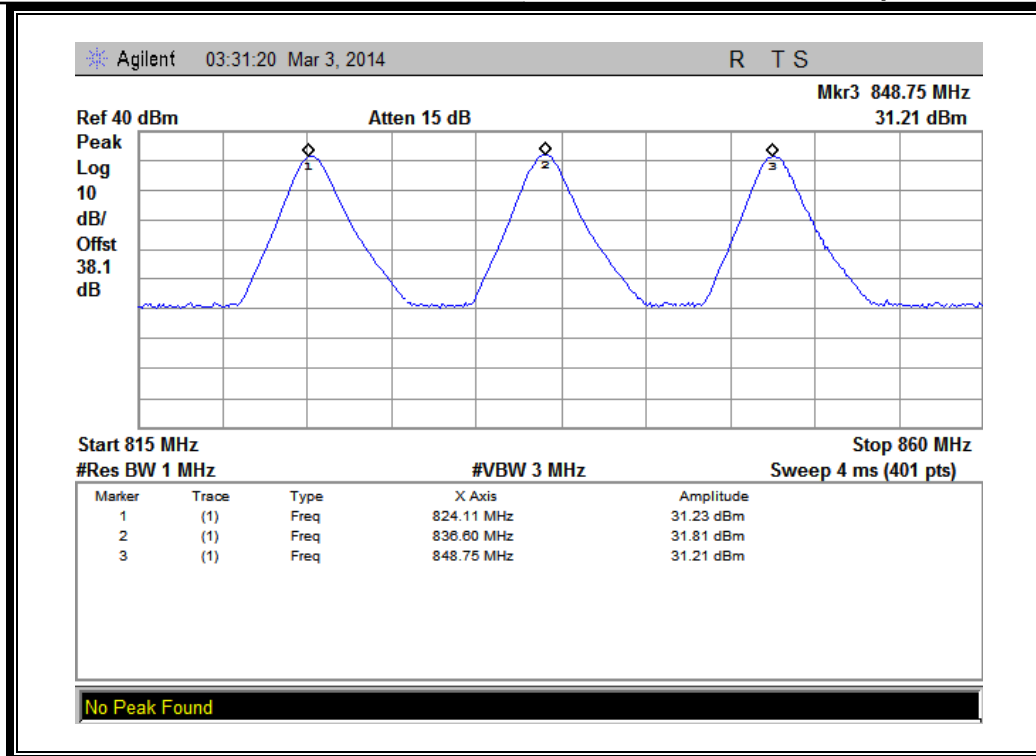
2. WCDMA Model Test Verdict:

Band	Channel	Frequency (MHz)	Measured ERP			Limit		Verdict
			dBm	W	Refer to Plot	dBm	W	
WCDMA 850MHz	4132	826.4	24.45	0.279	Plot G	38.5	7	<u>PASS</u>
	4175	835	24.28	0.268				<u>PASS</u>
	4233	846.6	23.77	0.238				<u>PASS</u>
HSDPA 850MHz	4132	826.4	24.28	0.268	Plot H	38.5	7	<u>PASS</u>
	4175	835	24.28	0.268				<u>PASS</u>
	4233	846.6	24.15	0.260				<u>PASS</u>
HSUPA 850MHz	4132	826.4	24.22	0.264	Plot I	38.5	7	<u>PASS</u>
	4175	835	24.11	0.258				<u>PASS</u>
	4233	846.6	24.18	0.262				<u>PASS</u>
HSPA+ 850MHz	4132	826.4	24.16	0.261	Plot J	38.5	7	<u>PASS</u>
	4175	835	24.19	0.262				<u>PASS</u>
	4233	846.6	24.26	0.267				<u>PASS</u>

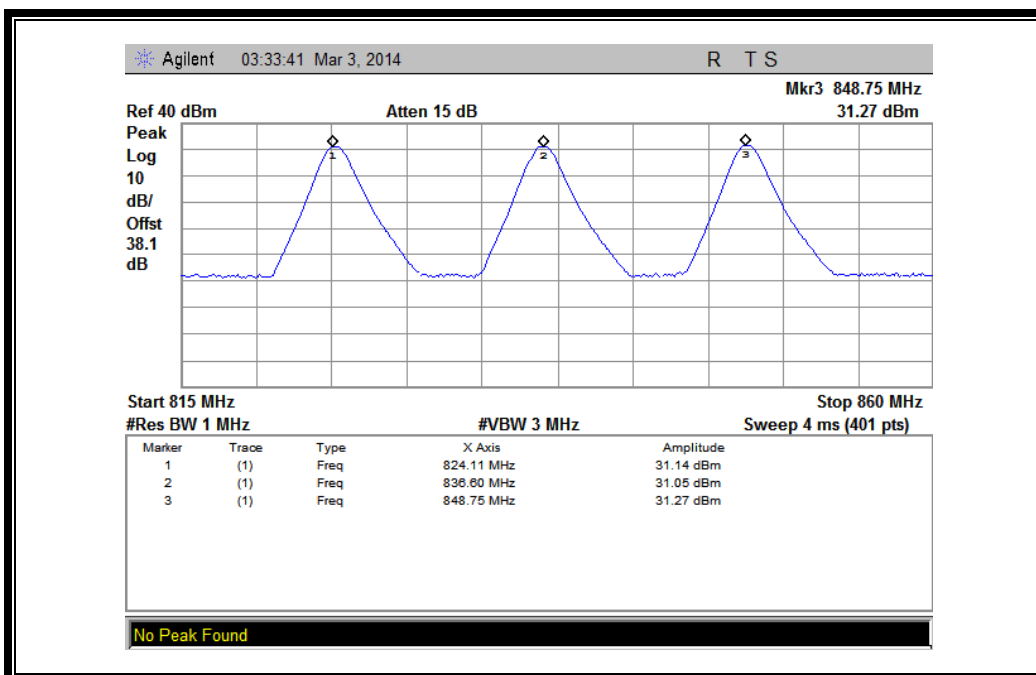
3. Test Plots:



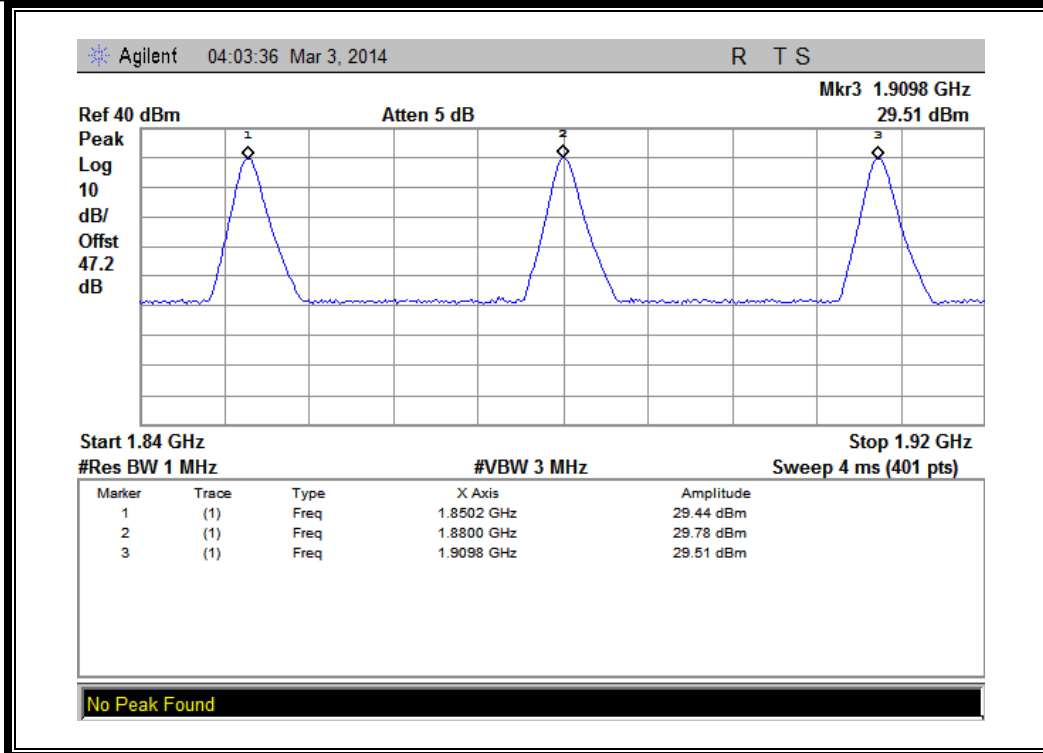
(Plot A: GSM 850MHz Channel = 128, 190, 251)



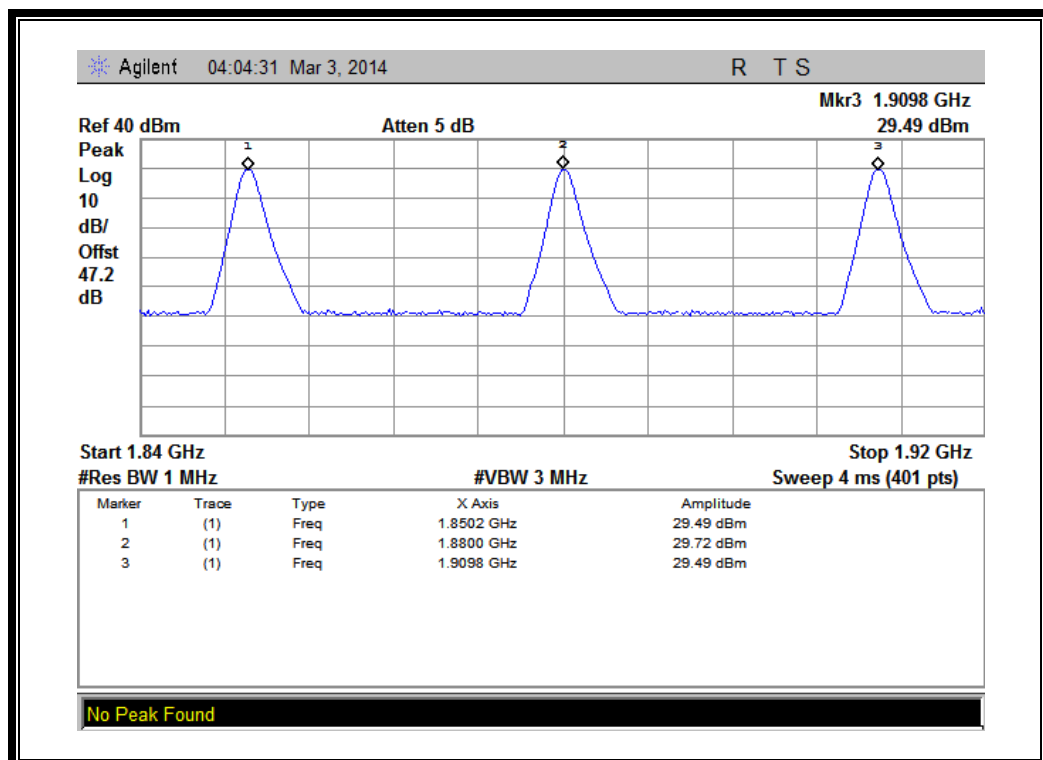
(Plot B: GPRS 850MHz Channel = 128, 190, 251)



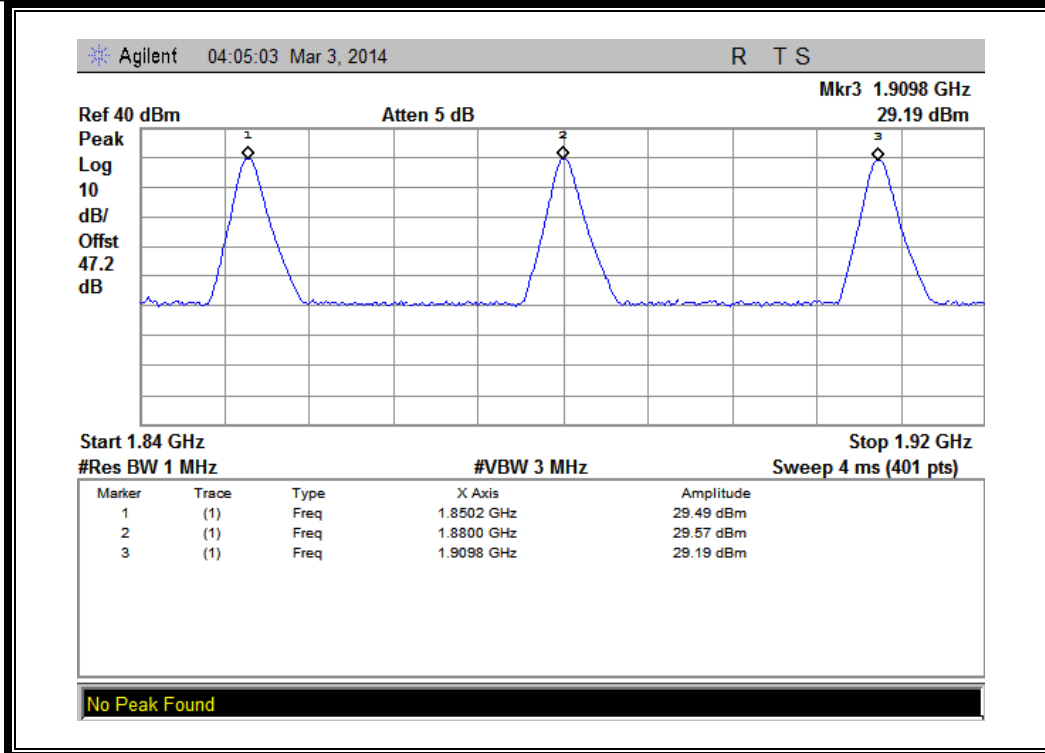
(Plot C: EGPRS 850MHz Channel = 128, 190, 251)



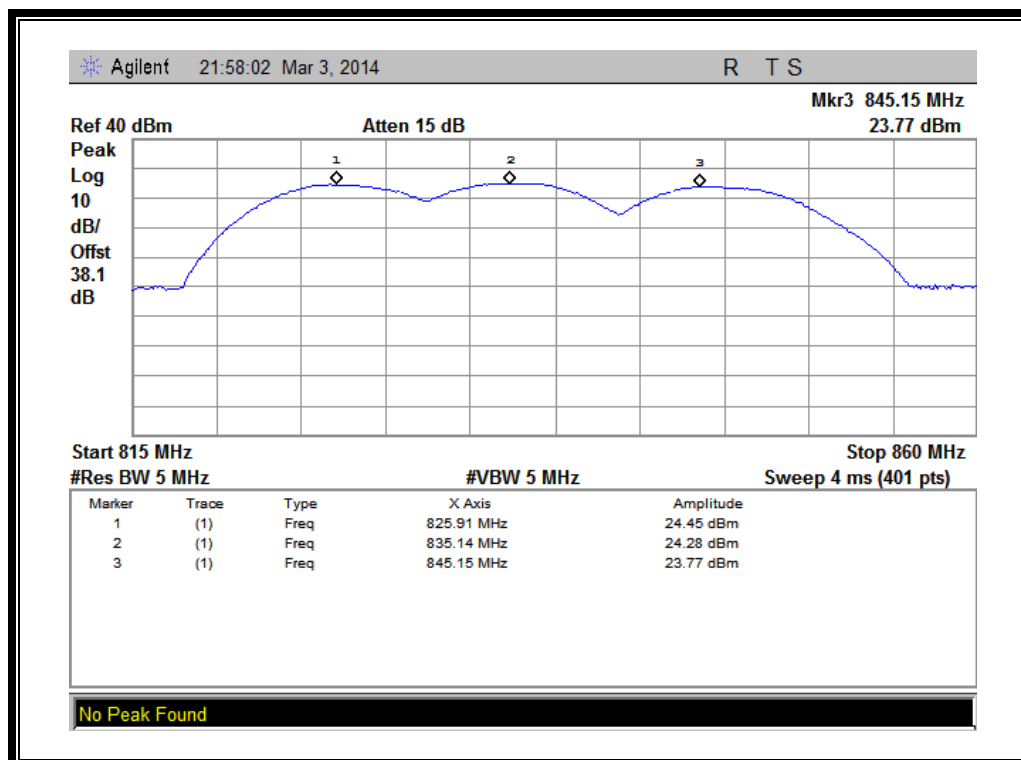
(Plot D: GSM 1900MHz Channel = 512, 661, 810)



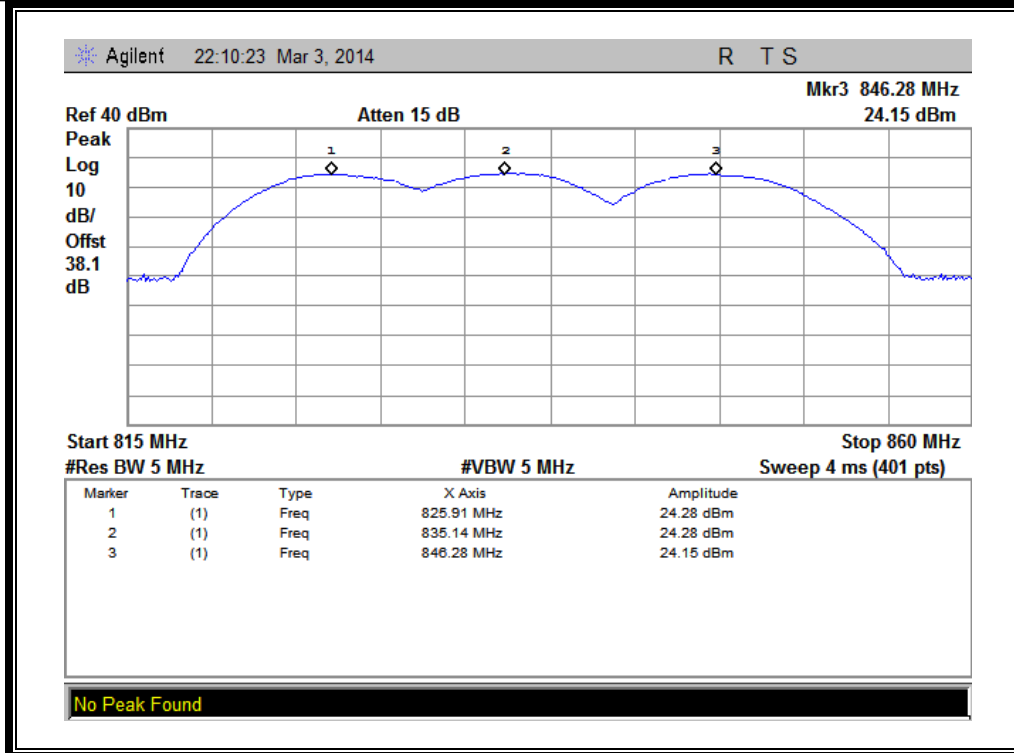
(Plot E: GPRS 1900MHz Channel = 512, 661, 810)



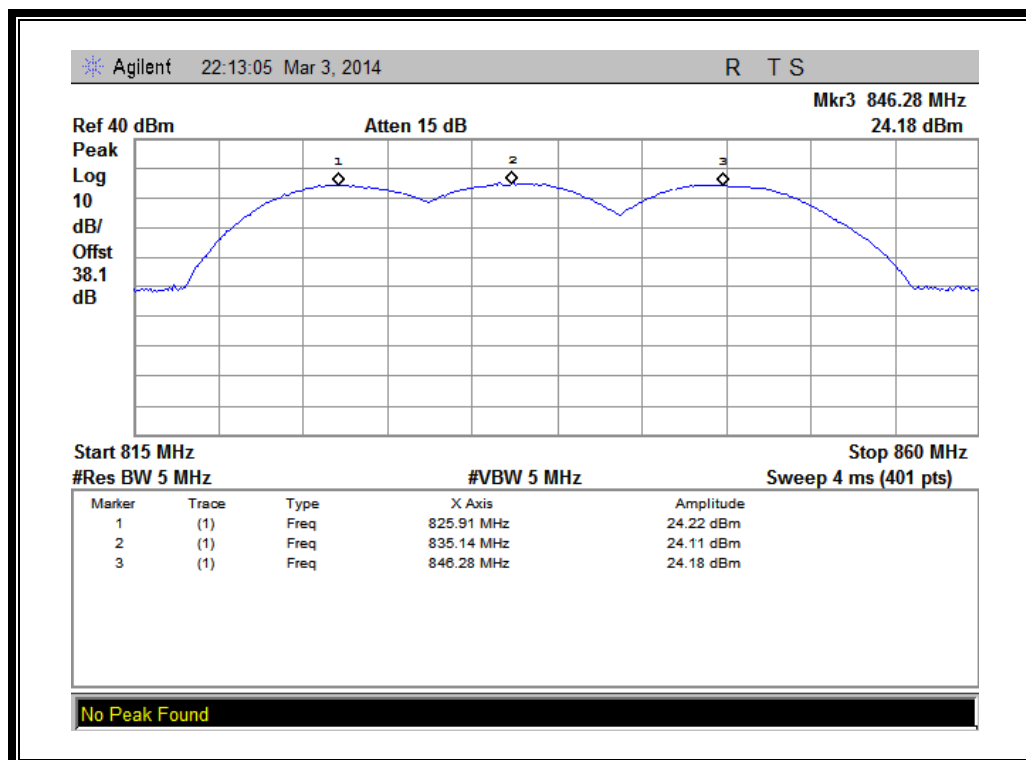
(Plot F: EGPRS 1900MHz Channel = 512, 661, 810)



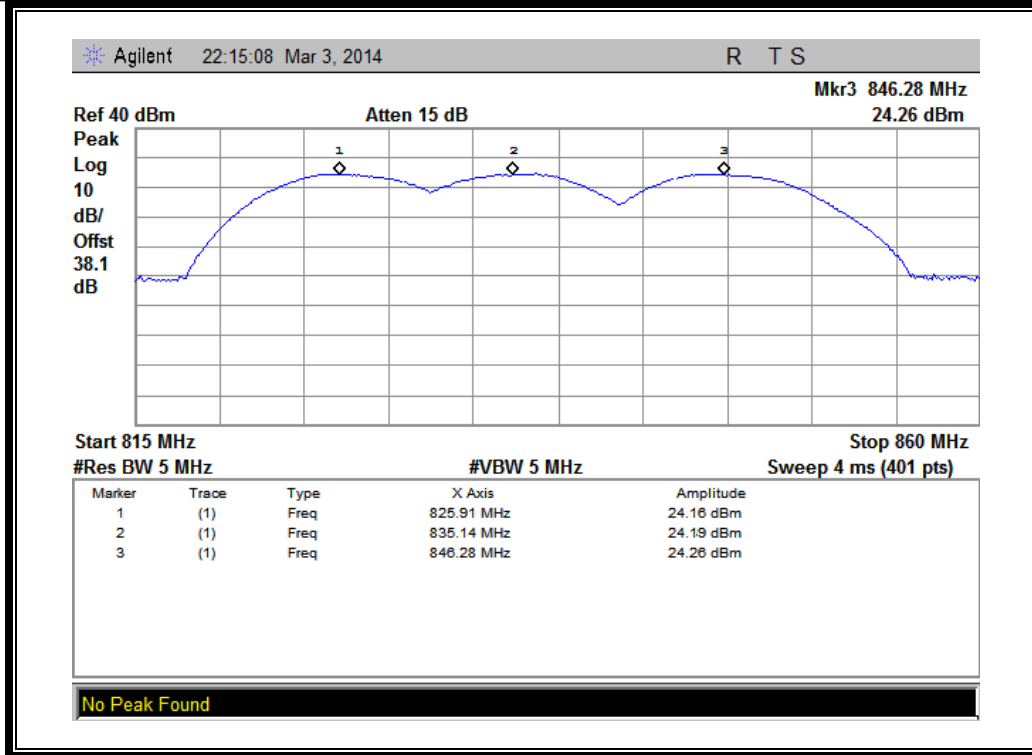
(Plot G: WCDMA 850 MHz Channel = 4132, 4175, 4233)



(Plot H: HSDPA 850 MHz Channel = 4132, 4175, 4233)



(Plot I: HSUPA 850 MHz Channel = 4132, 4175, 4233)



(Plot J: HSPA+ 850 MHz Channel = 4132, 4175, 4233)

2.8 Radiated Out of Band Emissions

2.8.1 Requirement

According to FCC section 22.917(a) and 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.

The spurious emission with frequency band 1900 according to FCC section 2.1057.

2.8.2 Test Description

See section 2.7.2 of this report.

Equipment 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
Full-Anechoic Chamber	Albatross	9m*6m*6m	(n.a.)	2013.05	2014.05
Test Antenna - Bi-Log	Schwarzbeck	VULB 9163	9163-274	2013.05	2014.05
Test Antenna - Horn	Schwarzbeck	BBHA 9120C	9120C-384	2013.05	2014.05
Substitution Antenna	Schwarzbeck	BBHA 9120C	9120C-384	2013.05	2014.05
Pre-AMPs	lucix	S10M100L3802	S020180L3203	2013.05	2014.05
Notch Filter	COM-MW	ZBSF-C836.5-25-X	NA	2013.05	2014.05
Notch Filter	COM-MW	ZBSF-C1747.5-75-X2	NA	2013.05	2014.05
Notch Filter	COM-MW	ZBSF-C1880-60-X2	NA	2013.05	2014.05

Note: when doing measurements above 1GHz, the EUT has been within the 3dB cone width of the horn antenna during horizontal antenna.

2.8.3 Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. The lowest, middle and highest channels are tested to verify the out of band emissions.

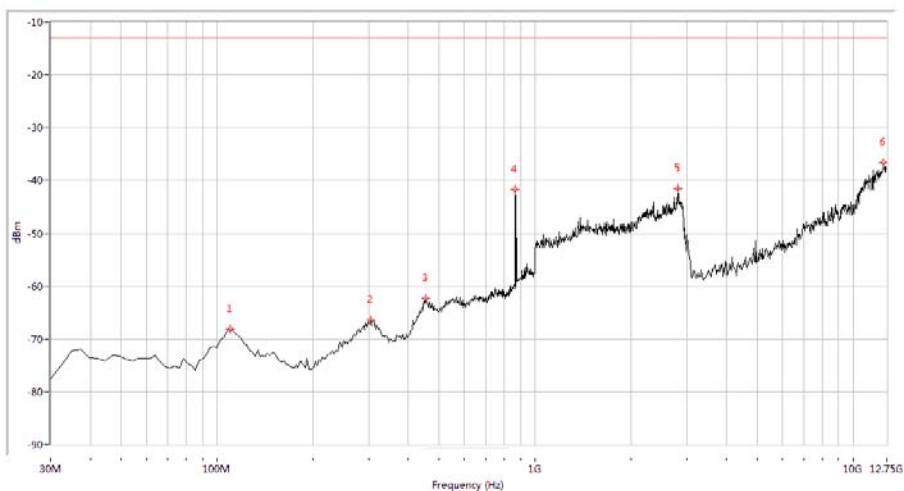
1. Test Verdict:

Band	Channel	Frequency (MHz)	Measured Max. Spurious Emission (dBm)		Refer to Plot	Limit (dBm)	Verdict
			Test Antenna Horizontal	Test Antenna Vertical			
GSM 850MHz	128	824.2	< -25	< -25	Plot A.1/A.2	-13	<u>PASS</u>
	190	836.6	< -25	< -25	Plot A.3/A.4		<u>PASS</u>
	251	848.8	< -25	< -25	Plot A.5/A.6		<u>PASS</u>
GSM 1900MHz	512	1850.2	< -25	< -25	Plot B.1/B.2	-13	<u>PASS</u>
	661	1880.0	< -25	< -25	Plot B.3/B.4		<u>PASS</u>
	810	1909.8	< -25	< -25	Plot B.5/B.6		<u>PASS</u>
EDGE 850MHz	128	824.2	< -25	< -25	Plot C.1/C.2	-13	<u>PASS</u>
	190	836.6	< -25	< -25	Plot C.3/C.4		<u>PASS</u>
	251	848.8	< -25	< -25	Plot C.5/C.6		<u>PASS</u>
EDGE 1900MHz	512	1850.2	< -25	< -25	Plot D.1/D.2	-13	<u>PASS</u>
	661	1880.0	< -25	< -25	Plot D.3/D.4		<u>PASS</u>
	810	1909.8	< -25	< -25	Plot D.5/D.6		<u>PASS</u>
WCDMA 850MHz	4132	826.4	< -25	< -25	Plot E.1/E.2	-13	<u>PASS</u>
	4175	835	< -25	< -25	Plot E.3/E.4		<u>PASS</u>
	4233	846.6	< -25	< -25	Plot E.5/E.6		<u>PASS</u>
HSDPA 850MHz	4132	826.4	< -25	< -25	Plot G.1/G.2	-13	<u>PASS</u>
	4175	835	< -25	< -25	Plot G.3/G.4		<u>PASS</u>
	4233	846.6	< -25	< -25	Plot G.5/G.6		<u>PASS</u>
HSUPA 850MHz	4132	826.4	< -25	< -25	Plot I.1/I.2	-13	<u>PASS</u>
	4175	835	< -25	< -25	Plot I.3/I.4		<u>PASS</u>
	4233	846.6	< -25	< -25	Plot I.5/I.6		<u>PASS</u>
HSPA+ 850MHz	4132	826.4	< -25	< -25	Plot K.1/K.2	-13	<u>PASS</u>
	4175	835	< -25	< -25	Plot K.3/K.4		<u>PASS</u>
	4233	846.6	< -25	< -25	Plot K.5/K.6		<u>PASS</u>

2. Test Plots for the Whole Measurement Frequency Range:

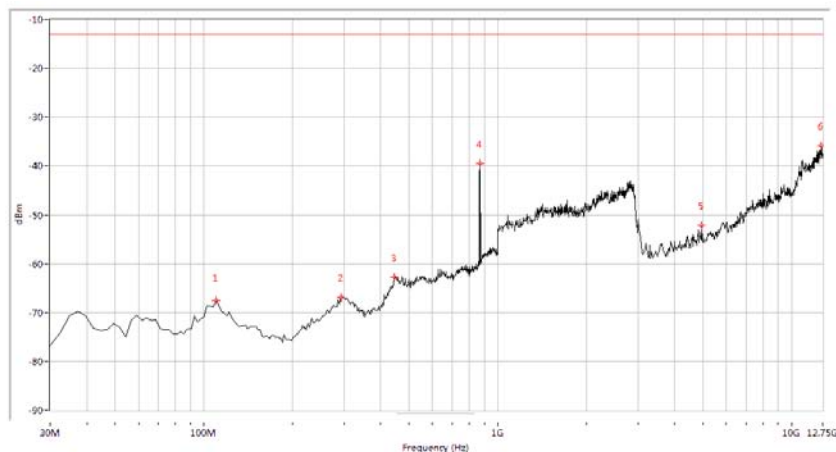
Note1: the power of the EUT transmitting frequency should be ignored.

Note2: All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.



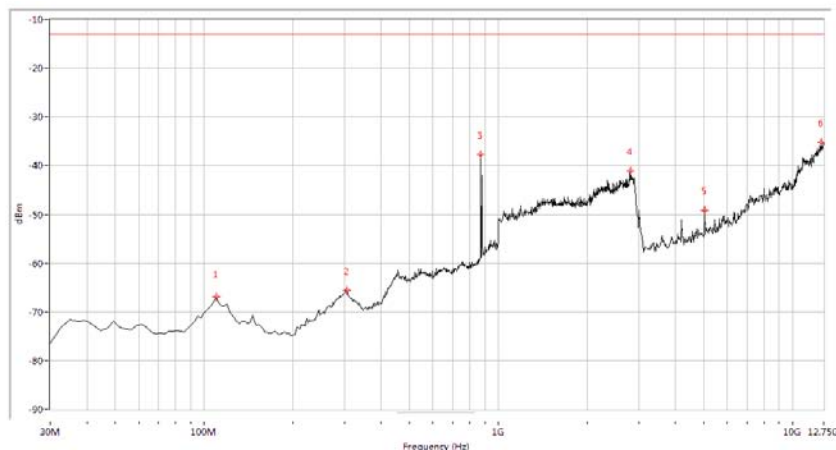
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-68.15	-13.0	55.2	68.5	Horizontal	<u>PASS</u>
303.342	-66.46	-13.0	53.5	293.9	Horizontal	<u>PASS</u>
453.317	-62.32	-13.0	49.3	186.1	Horizontal	<u>PASS</u>
866.958	-41.72	-13.0	28.7	251.7	Horizontal	<u>PASS</u>
2820.449	-41.59	-13.0	28.6	159.7	Horizontal	<u>PASS</u>
12458.229	-36.63	-13.0	23.6	336.6	Horizontal	<u>PASS</u>

(Plot A.1: GSM 850MHz Channel = 128, Test Antenna Horizontal)



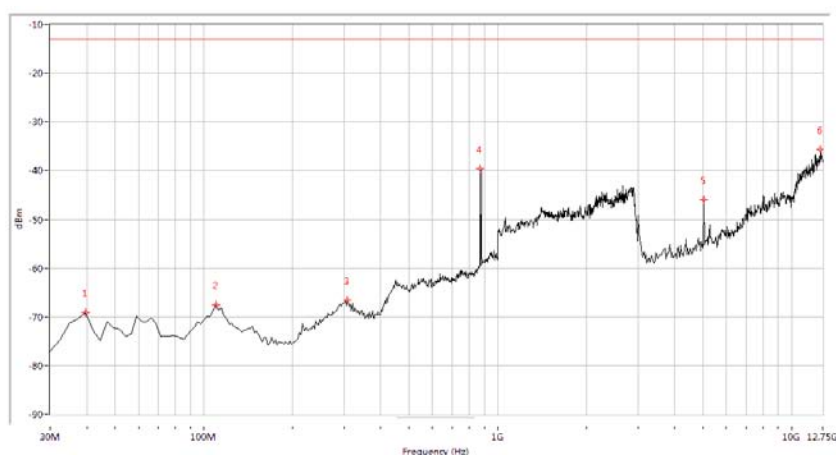
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-67.44	-13.0	54.4	359.0	Vertical	<u>PASS</u>
293.666	-66.90	-13.0	53.9	253.2	Vertical	<u>PASS</u>
443.641	-62.77	-13.0	49.8	278.1	Vertical	<u>PASS</u>
871.796	-39.44	-13.0	26.4	360.0	Vertical	<u>PASS</u>
4945.137	-52.10	-13.0	39.1	306.5	Vertical	<u>PASS</u>
12604.115	-35.86	-13.0	22.9	219.0	Vertical	<u>PASS</u>

(Plot A.2: GSM 850MHz Channel = 128, Test Antenna Vertical)



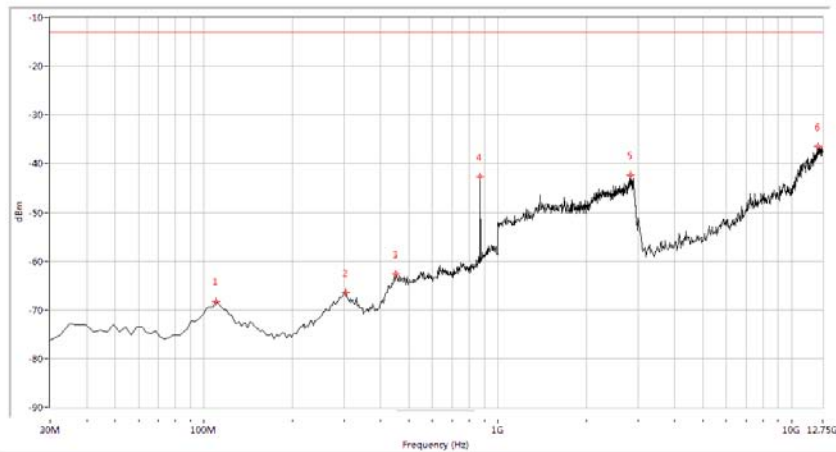
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-66.84	-13.0	53.8	319.0	Horizontal	<u>PASS</u>
305.761	-65.61	-13.0	52.6	-0.0	Horizontal	<u>PASS</u>
871.796	-37.73	-13.0	24.7	139.0	Horizontal	<u>PASS</u>
2805.486	-41.10	-13.0	28.1	294.7	Horizontal	<u>PASS</u>
5018.080	-49.20	-13.0	36.2	213.8	Horizontal	<u>PASS</u>
12531.172	-35.17	-13.0	22.2	322.4	Horizontal	<u>PASS</u>

(Plot A.3: GSM 850MHz Channel = 190, Test Antenna Horizontal)



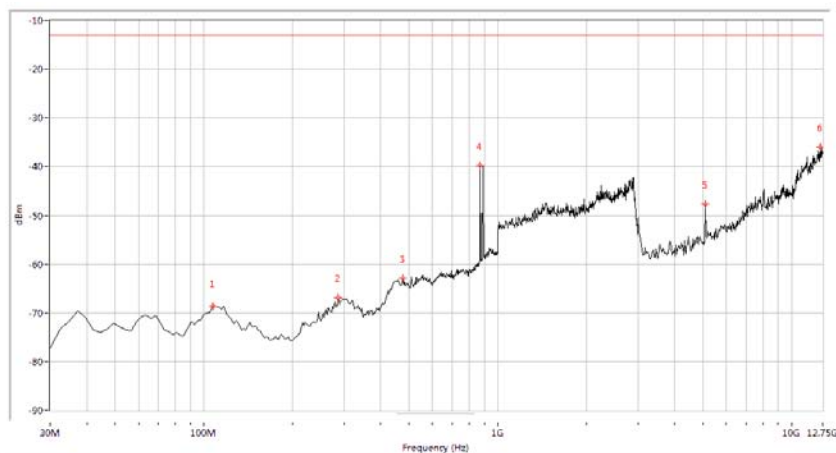
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
39.676	-69.10	-13.0	56.1	123.2	Vertical	<u>PASS</u>
109.825	-67.57	-13.0	54.6	54.6	Vertical	<u>PASS</u>
308.180	-66.59	-13.0	53.6	7.8	Vertical	<u>PASS</u>
871.796	-39.69	-13.0	26.7	21.0	Vertical	<u>PASS</u>
5018.080	-46.04	-13.0	33.0	241.5	Vertical	<u>PASS</u>
12506.858	-35.65	-13.0	22.7	8.7	Vertical	<u>PASS</u>

(Plot A.4: GSM 850MHz Channel = 190, Test Antenna Vertical)



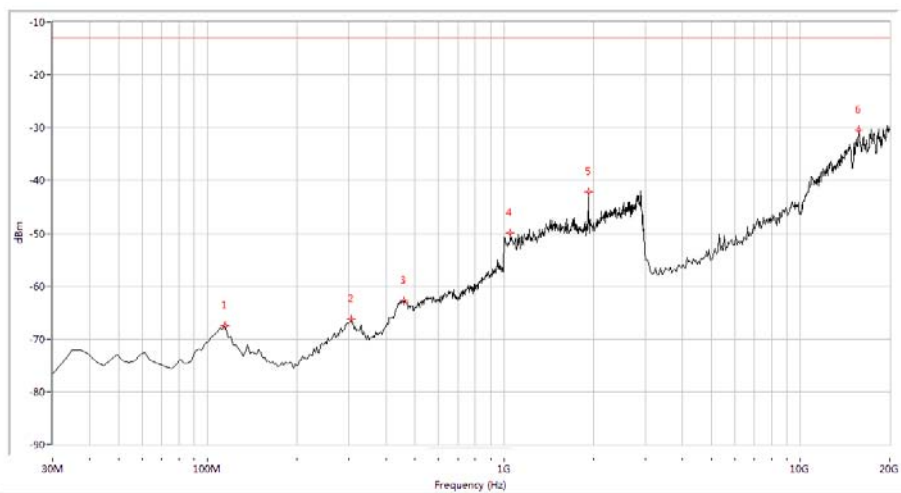
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-68.22	-13.0	55.2	14.2	Horizontal	<u>PASS</u>
303.342	-66.44	-13.0	53.4	232.5	Horizontal	<u>PASS</u>
450.898	-62.67	-13.0	49.7	52.7	Horizontal	<u>PASS</u>
871.796	-42.65	-13.0	29.6	9.6	Horizontal	<u>PASS</u>
2825.436	-42.34	-13.0	29.3	124.4	Horizontal	<u>PASS</u>
12288.030	-36.53	-13.0	23.5	155.0	Horizontal	<u>PASS</u>

(Plot A.5: GSM 850MHz Channel = 251, Test Antenna Horizontal)



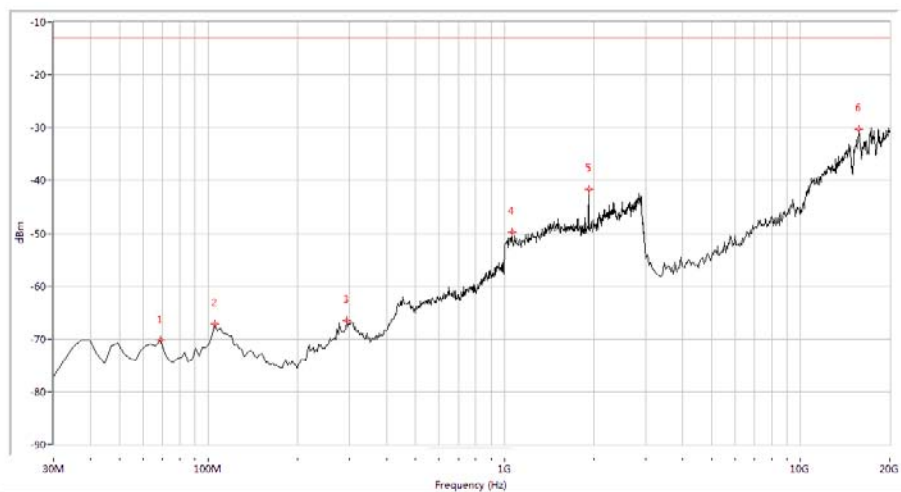
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
107.406	-68.55	-13.0	55.5	63.5	Vertical	<u>PASS</u>
286.409	-66.86	-13.0	53.9	12.3	Vertical	<u>PASS</u>
475.087	-62.92	-13.0	49.9	245.1	Vertical	<u>PASS</u>
871.796	-39.80	-13.0	26.8	152.7	Vertical	<u>PASS</u>
5091.022	-47.64	-13.0	34.6	86.6	Vertical	<u>PASS</u>
12531.172	-36.05	-13.0	23.0	9.9	Vertical	<u>PASS</u>

(Plot A.6: GSM 850MHz Channel = 251, Test Antenna Vertical)



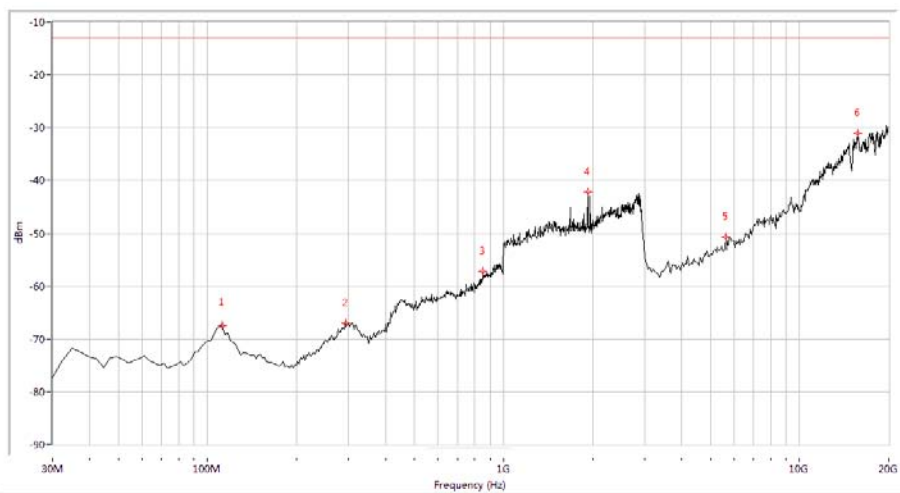
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
114.663	-67.56	-13.0	54.6	123.4	Horizontal	<u>PASS</u>
305.761	-66.31	-13.0	53.3	24.5	Horizontal	<u>PASS</u>
458.155	-62.74	-13.0	49.7	75.0	Horizontal	<u>PASS</u>
1049.875	-49.95	-13.0	37.0	233.6	Horizontal	<u>PASS</u>
1927.681	-42.14	-13.0	29.1	252.8	Horizontal	<u>PASS</u>
15760.599	-30.46	-13.0	17.5	12.1	Horizontal	<u>PASS</u>

(Plot B.1: GSM 1900MHz Channel = 512, Test Antenna Horizontal)



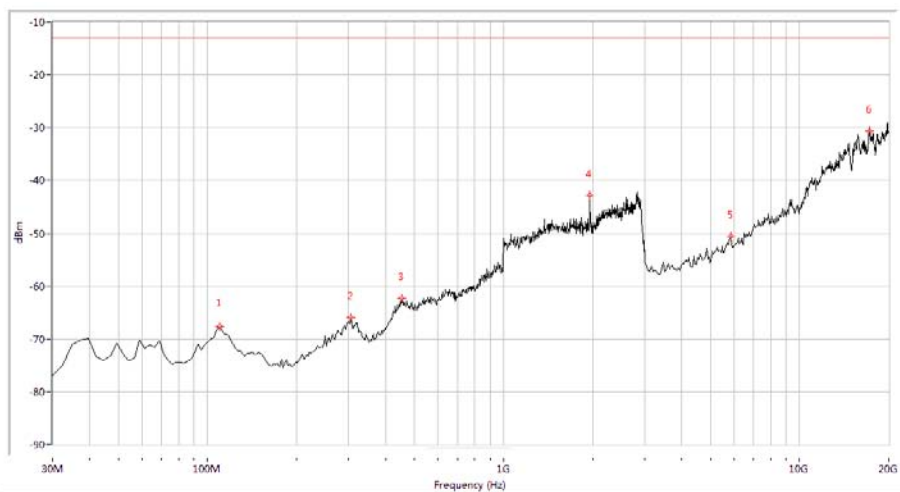
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
68.703	-70.13	-13.0	57.1	12.3	Vertical	<u>PASS</u>
104.988	-67.20	-13.0	54.2	212.0	Vertical	<u>PASS</u>
293.666	-66.63	-13.0	53.6	351.2	Vertical	<u>PASS</u>
1059.850	-49.71	-13.0	36.7	9.8	Vertical	<u>PASS</u>
1927.681	-41.75	-13.0	28.7	142.1	Vertical	<u>PASS</u>
15760.599	-30.26	-13.0	17.3	63.4	Vertical	<u>PASS</u>

(Plot B.2: GSM 1900MHz Channel = 512, Test Antenna Vertical)



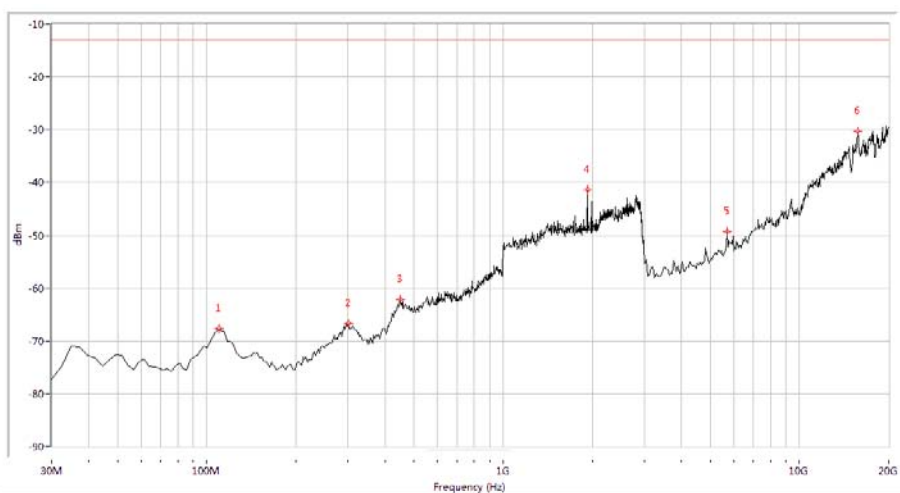
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
112.244	-67.46	-13.0	54.5	124.0	Horizontal	<u>PASS</u>
293.666	-67.04	-13.0	54.0	23.5	Horizontal	<u>PASS</u>
852.444	-57.20	-13.0	44.2	8.7	Horizontal	<u>PASS</u>
1927.681	-42.10	-13.0	29.1	212.6	Horizontal	<u>PASS</u>
5628.429	-50.70	-13.0	37.7	9.8	Horizontal	<u>PASS</u>
15760.599	-31.08	-13.0	18.1	242.1	Horizontal	<u>PASS</u>

(Plot B.3: GSM 1900MHz Channel = 661, Test Antenna Horizontal)



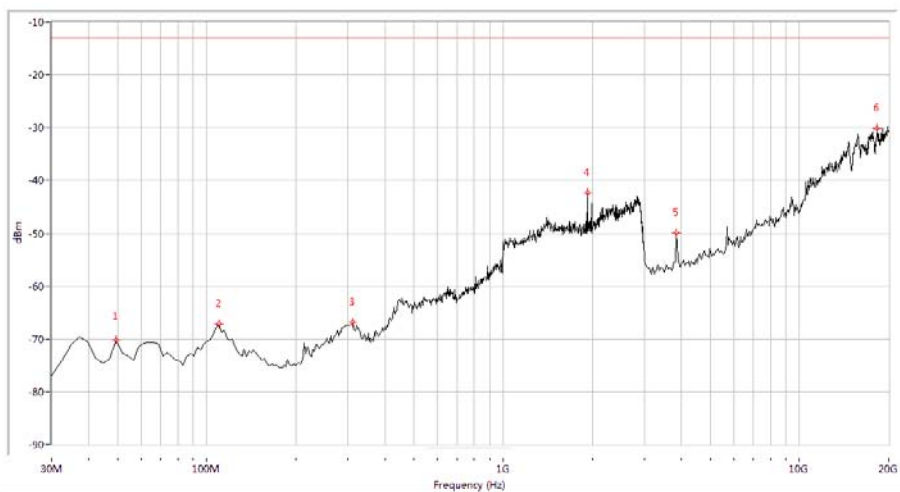
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-67.60	-13.0	54.6	123.2	Vertical	<u>PASS</u>
305.761	-65.95	-13.0	53.0	47.1	Vertical	<u>PASS</u>
453.317	-62.33	-13.0	49.3	166.9	Vertical	<u>PASS</u>
1957.606	-42.84	-13.0	29.8	121.0	Vertical	<u>PASS</u>
5840.399	-50.56	-13.0	37.6	12.0	Vertical	<u>PASS</u>
17244.389	-30.67	-13.0	17.7	9.6	Vertical	<u>PASS</u>

(Plot B.4: GSM 1900MHz Channel = 661, Test Antenna Vertical)



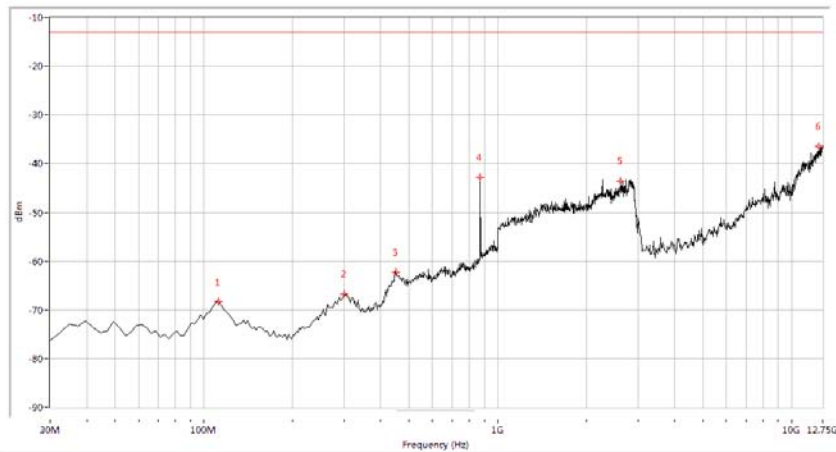
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-67.65	-13.0	54.6	12.0	Horizontal	<u>PASS</u>
300.923	-66.70	-13.0	53.7	45.7	Horizontal	<u>PASS</u>
450.898	-62.14	-13.0	49.1	323.5	Horizontal	<u>PASS</u>
1927.681	-41.41	-13.0	28.4	41.4	Horizontal	<u>PASS</u>
5713.217	-49.27	-13.0	36.3	96.6	Horizontal	<u>PASS</u>
15718.204	-30.21	-13.0	17.2	121.2	Horizontal	<u>PASS</u>

(Plot B.5: GSM 1900MHz Channel = 810, Test Antenna Horizontal)



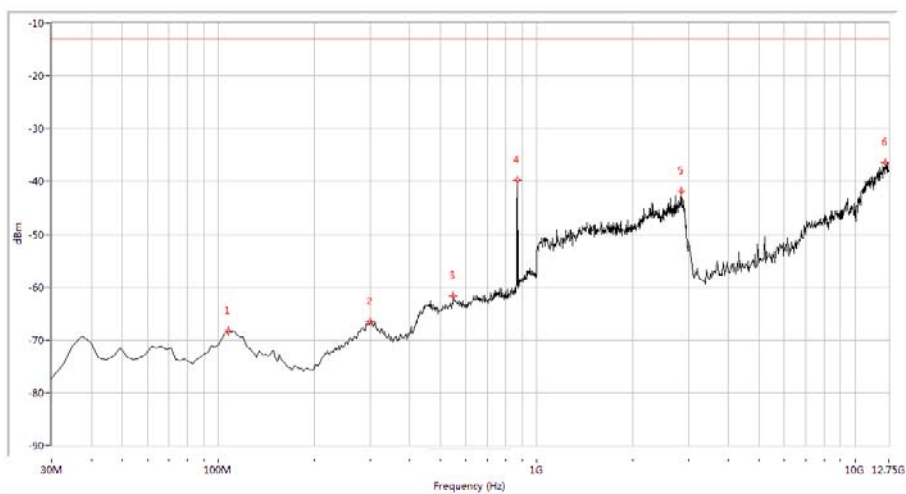
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
49.352	-70.22	-13.0	57.2	12.3	Vertical	<u>PASS</u>
109.825	-67.14	-13.0	54.1	45.6	Vertical	<u>PASS</u>
310.599	-66.85	-13.0	53.9	123.2	Vertical	<u>PASS</u>
1927.681	-42.35	-13.0	29.3	147.1	Vertical	<u>PASS</u>
3847.880	-49.96	-13.0	37.0	69.7	Vertical	<u>PASS</u>
18304.239	-30.10	-13.0	17.1	212.0	Vertical	<u>PASS</u>

(Plot B.6: GSM 1900MHz Channel = 810, Test Antenna Vertical)



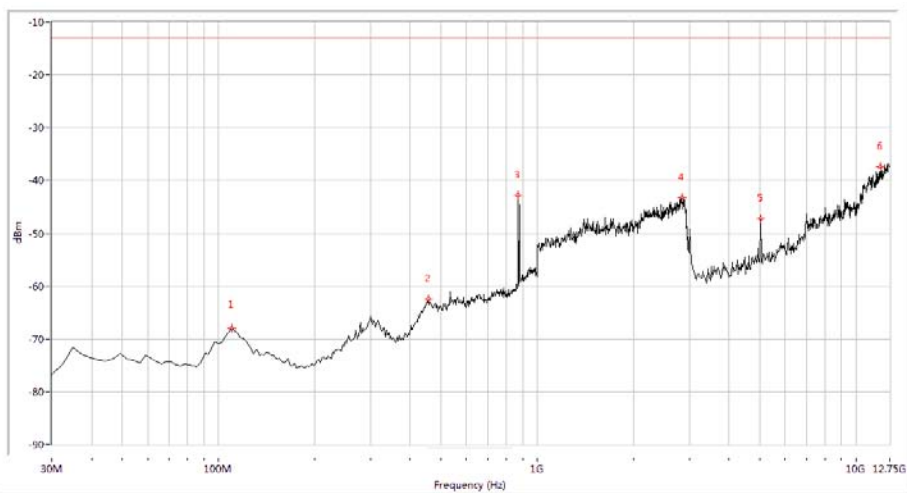
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
112.244	-68.27	-13.0	55.3	142.0	Horizontal	<u>PASS</u>
300.923	-66.64	-13.0	53.6	72.3	Horizontal	<u>PASS</u>
450.898	-62.27	-13.0	49.3	242.1	Horizontal	<u>PASS</u>
871.796	-42.74	-13.0	29.7	32.6	Horizontal	<u>PASS</u>
2620.948	-43.53	-13.0	30.5	42.9	Horizontal	<u>PASS</u>
12385.287	-36.48	-13.0	23.5	174.7	Horizontal	<u>PASS</u>

(Plot C.1: EGPRS 850MHz Channel = 128, Test Antenna Horizontal)



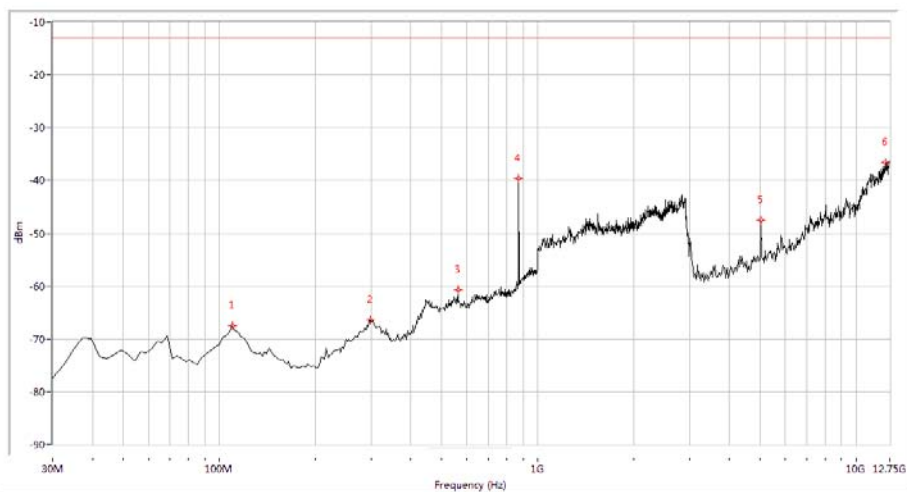
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
107.406	-68.24	-13.0	55.2	136.2	Vertical	<u>PASS</u>
300.923	-66.54	-13.0	53.5	4.6	Vertical	<u>PASS</u>
547.656	-61.66	-13.0	48.7	142.3	Vertical	<u>PASS</u>
871.796	-39.85	-13.0	26.8	96.5	Vertical	<u>PASS</u>
2840.399	-41.89	-13.0	28.9	32.0	Vertical	<u>PASS</u>
12482.544	-36.43	-13.0	23.4	241.1	Vertical	<u>PASS</u>

(Plot C.2: EGPRS 850MHz Channel = 128, Test Antenna Vertical)



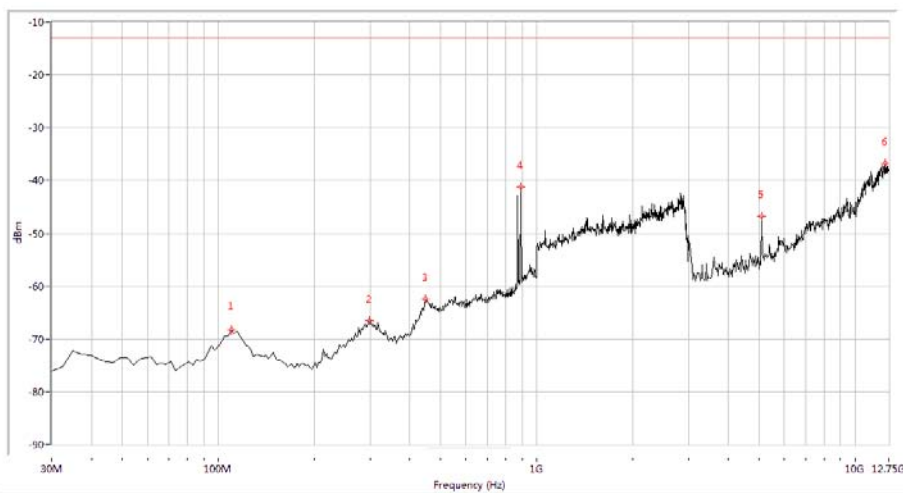
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-68.00	-13.0	55.0	132.3	Horizontal	<u>PASS</u>
455.736	-62.47	-13.0	49.5	231.2	Horizontal	<u>PASS</u>
871.796	-42.79	-13.0	29.8	52.4	Horizontal	<u>PASS</u>
2845.387	-43.28	-13.0	30.3	69.7	Horizontal	<u>PASS</u>
5018.080	-47.20	-13.0	34.2	323.0	Horizontal	<u>PASS</u>
11899.002	-37.46	-13.0	24.5	54.6	Horizontal	<u>PASS</u>

(Plot C.3: EGPRS 850MHz Channel = 190, Test Antenna Horizontal)



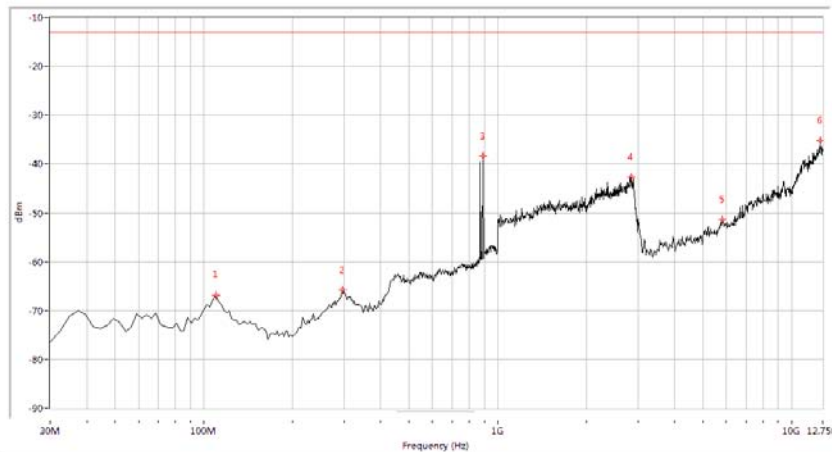
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-67.43	-13.0	54.4	36.4	Vertical	<u>PASS</u>
298.504	-66.46	-13.0	53.5	142.0	Vertical	<u>PASS</u>
562.170	-60.75	-13.0	47.7	74.8	Vertical	<u>PASS</u>
871.796	-39.55	-13.0	26.6	232.6	Vertical	<u>PASS</u>
5018.080	-47.58	-13.0	34.6	144.1	Vertical	<u>PASS</u>
12385.287	-36.57	-13.0	23.6	98.5	Vertical	<u>PASS</u>

(Plot C.4: EGPRS 850MHz Channel = 190, Test Antenna Vertical)



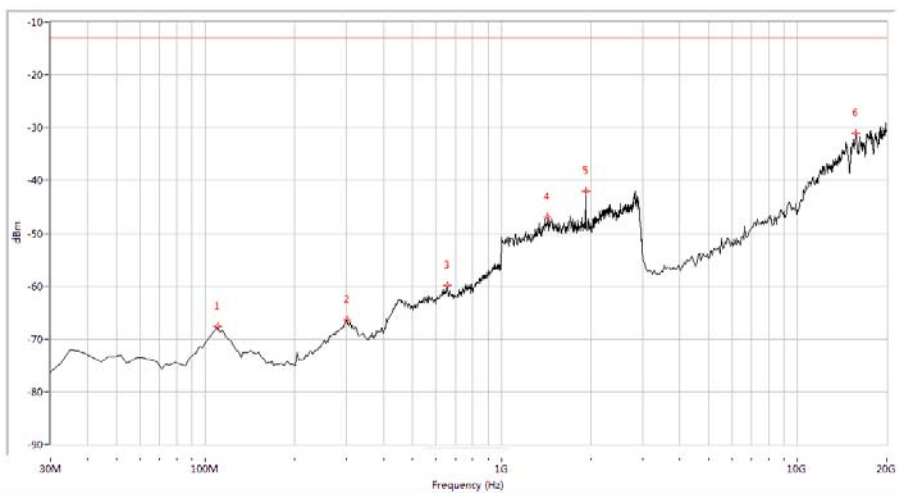
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-68.37	-13.0	55.4	132.2	Horizontal	<u>PASS</u>
298.504	-66.60	-13.0	53.6	42.1	Horizontal	<u>PASS</u>
448.479	-62.42	-13.0	49.4	236.5	Horizontal	<u>PASS</u>
891.147	-41.28	-13.0	28.3	78.9	Horizontal	<u>PASS</u>
5091.022	-46.82	-13.0	33.8	8.4	Horizontal	<u>PASS</u>
12409.601	-36.81	-13.0	23.8	220.8	Horizontal	<u>PASS</u>

(Plot C.5: EGPRS 850MHz Channel = 251, Test Antenna Horizontal)



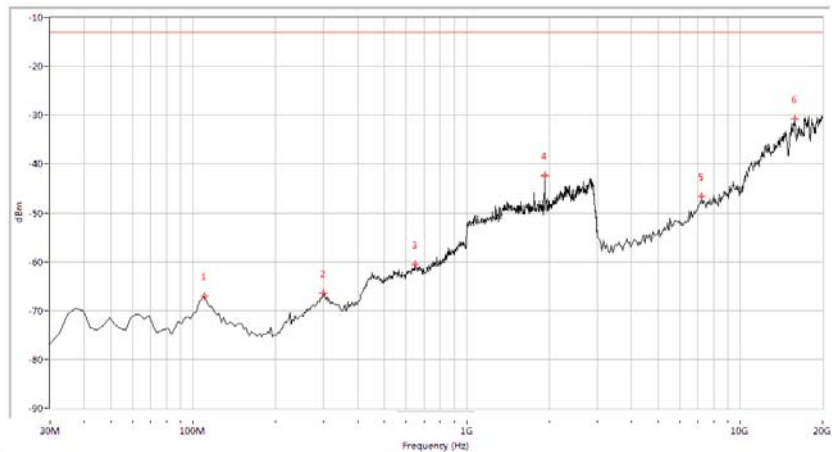
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-66.94	-13.0	53.9	132.5	Vertical	<u>PASS</u>
296.085	-65.71	-13.0	52.7	96.3	Vertical	<u>PASS</u>
891.147	-38.38	-13.0	25.4	36.4	Vertical	<u>PASS</u>
2840.399	-42.66	-13.0	29.7	241.0	Vertical	<u>PASS</u>
5796.135	-51.27	-13.0	38.3	98.9	Vertical	<u>PASS</u>
12531.172	-35.18	-13.0	22.2	321.2	Vertical	<u>PASS</u>

(Plot C.6: EGPRS 850MHz Channel = 251, Test Antenna Vertical)



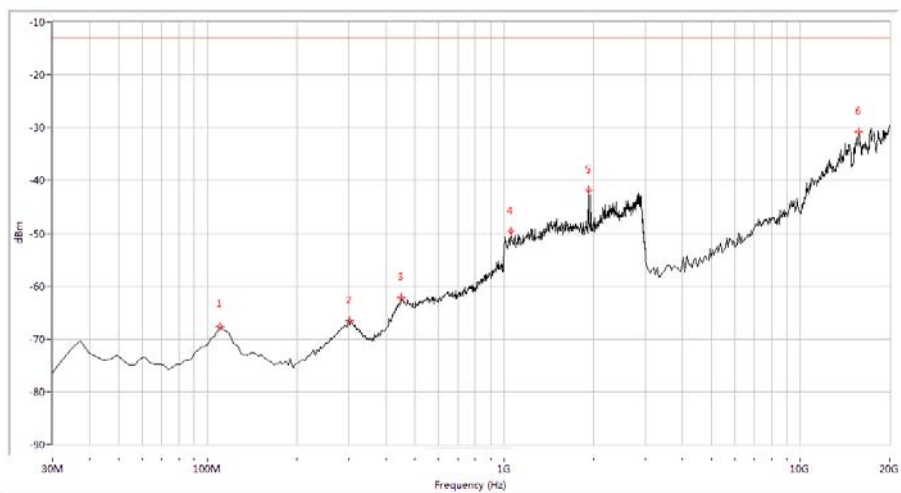
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-67.62	-13.0	54.6	122.2	Horizontal	<u>PASS</u>
300.923	-66.39	-13.0	53.4	323.4	Horizontal	<u>PASS</u>
656.509	-59.98	-13.0	47.0	69.7	Horizontal	<u>PASS</u>
1433.915	-46.96	-13.0	34.0	85.1	Horizontal	<u>PASS</u>
1927.681	-41.98	-13.0	29.0	2.0	Horizontal	<u>PASS</u>
15760.599	-31.12	-13.0	18.1	63.8	Horizontal	<u>PASS</u>

(Plot D.1: EGPRS 1900MHz Channel = 512, Test Antenna Horizontal)



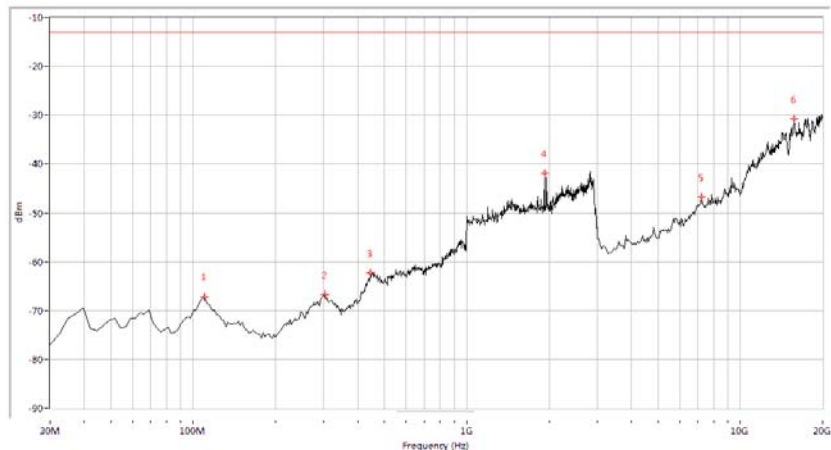
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-66.96	-13.0	54.0	63.2	Vertical	<u>PASS</u>
298.504	-66.32	-13.0	53.3	142.1	Vertical	<u>PASS</u>
649.252	-60.60	-13.0	47.6	71.0	Vertical	<u>PASS</u>
1927.681	-42.35	-13.0	29.4	213.3	Vertical	<u>PASS</u>
7197.007	-46.61	-13.0	33.6	42.6	Vertical	<u>PASS</u>
15845.387	-30.82	-13.0	17.8	6.9	Vertical	<u>PASS</u>

(Plot D.2: EGPRS 1900MHz Channel = 512, Test Antenna Vertical)



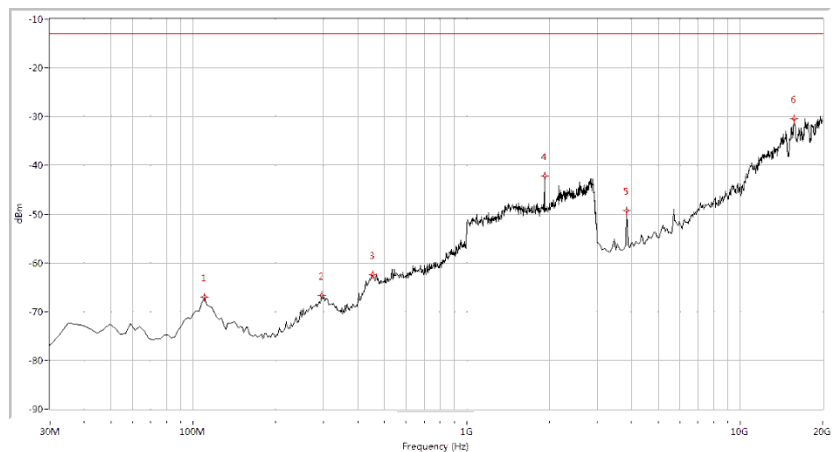
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-67.65	-13.0	54.7	123.2	Horizontal	<u>PASS</u>
300.923	-66.51	-13.0	53.5	45.5	Horizontal	<u>PASS</u>
450.898	-62.17	-13.0	49.2	7.8	Horizontal	<u>PASS</u>
1054.863	-49.63	-13.0	36.6	66.1	Horizontal	<u>PASS</u>
1927.681	-41.88	-13.0	28.9	241.3	Horizontal	<u>PASS</u>
15718.204	-30.77	-13.0	17.8	206.6	Horizontal	<u>PASS</u>

(Plot D.3: EGPRS 1900MHz Channel = 661, Test Antenna Horizontal)



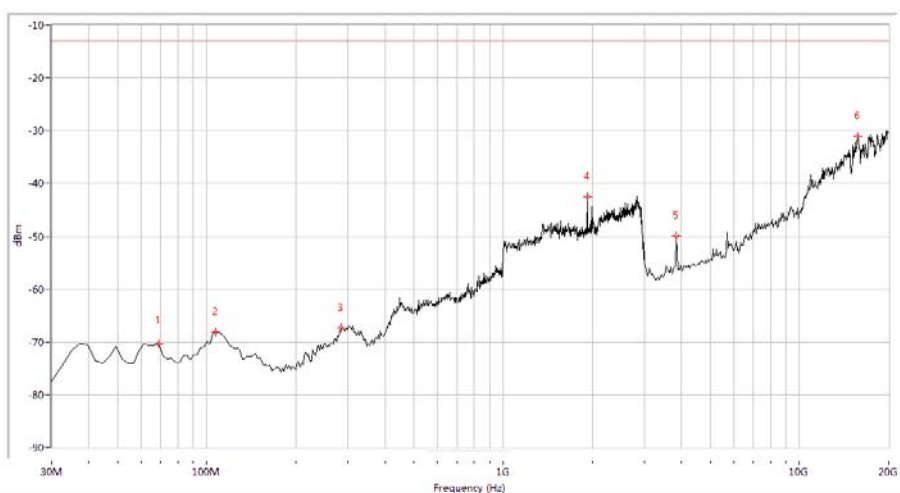
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-67.17	-13.0	54.2	152.6	Vertical	<u>PASS</u>
303.342	-66.65	-13.0	53.7	45.7	Vertical	<u>PASS</u>
443.641	-62.23	-13.0	49.2	121.0	Vertical	<u>PASS</u>
1927.681	-41.82	-13.0	28.8	7.8	Vertical	<u>PASS</u>
7197.007	-46.70	-13.0	33.7	65.4	Vertical	<u>PASS</u>
15718.204	-30.69	-13.0	17.7	23.1	Vertical	<u>PASS</u>

(Plot D.4: EGPRS 1900MHz Channel = 661, Test Antenna Vertical)



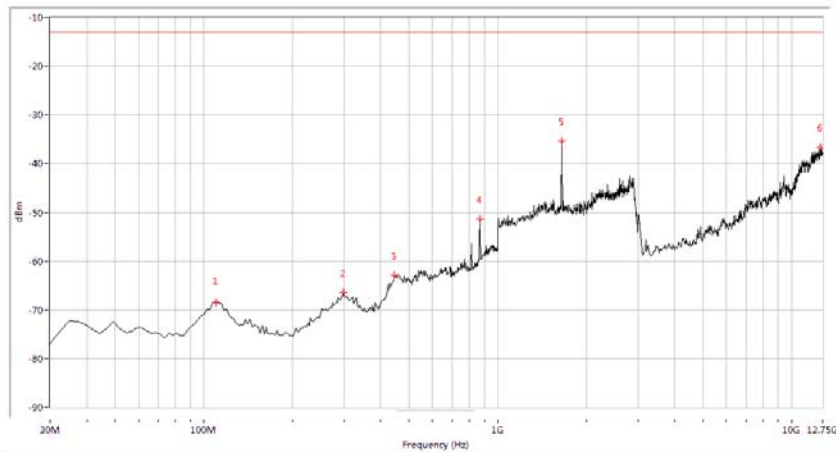
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-67.07	-13.0	54.1	63.4	Horizontal	<u>PASS</u>
296.085	-66.74	-13.0	53.7	241.1	Horizontal	<u>PASS</u>
453.317	-62.45	-13.0	49.5	38.7	Horizontal	<u>PASS</u>
1927.681	-42.09	-13.0	29.1	142.0	Horizontal	<u>PASS</u>
3847.880	-49.22	-13.0	36.2	103.9	Horizontal	<u>PASS</u>
15718.204	-30.51	-13.0	17.5	2.5	Horizontal	<u>PASS</u>

(Plot D.5: EGPRS 1900MHz Channel = 810, Test Antenna Horizontal)



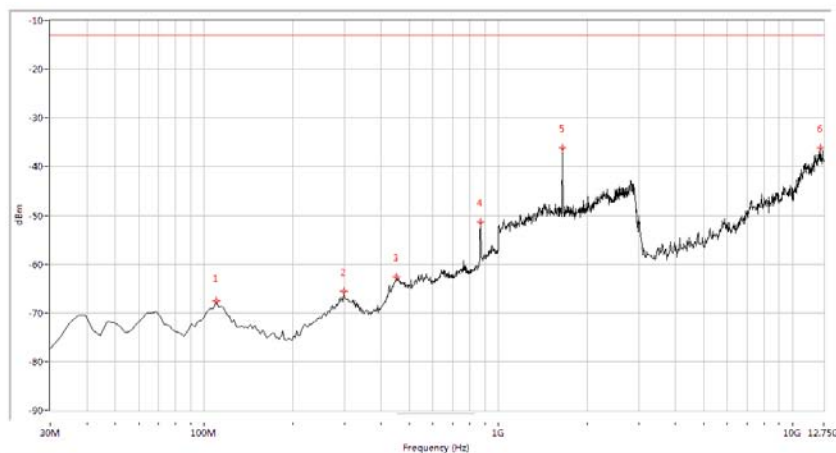
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
68.703	-70.36	-13.0	57.4	156.3	Vertical	<u>PASS</u>
107.406	-68.21	-13.0	55.2	42.1	Vertical	<u>PASS</u>
283.990	-67.37	-13.0	54.4	254.7	Vertical	<u>PASS</u>
1927.681	-42.51	-13.0	29.5	68.8	Vertical	<u>PASS</u>
3847.880	-49.85	-13.0	36.9	132.0	Vertical	<u>PASS</u>
15718.204	-31.13	-13.0	18.1	9.6	Vertical	<u>PASS</u>

(Plot D.6: EGPRS 1900MHz Channel = 810, Test Antenna Vertical)



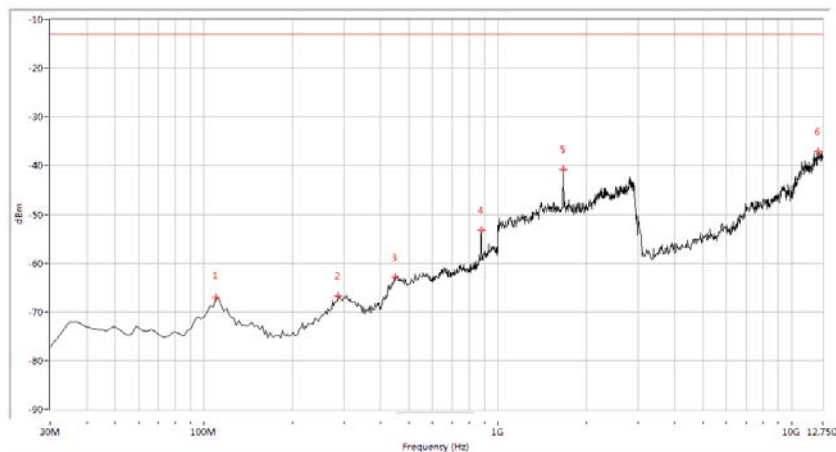
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-68.39	-13.0	55.4	36.1	Horizontal	<u>PASS</u>
298.504	-66.45	-13.0	53.4	85.2	Horizontal	<u>PASS</u>
446.060	-62.89	-13.0	49.9	169.4	Horizontal	<u>PASS</u>
869.377	-51.36	-13.0	38.4	245.0	Horizontal	<u>PASS</u>
1648.379	-35.40	-13.0	22.4	116.7	Horizontal	<u>PASS</u>
12555.486	-36.64	-13.0	23.6	306.9	Horizontal	<u>PASS</u>

(Plot E.1: WCDMA 850MHz Channel = 4132, Test Antenna Horizontal)



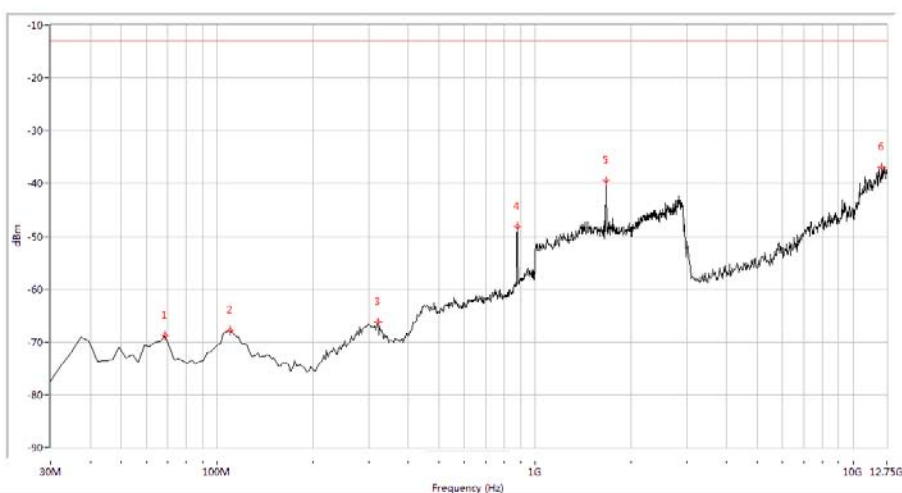
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-67.45	-13.0	54.5	12.5	Vertical	<u>PASS</u>
298.504	-65.60	-13.0	52.6	241.3	Vertical	<u>PASS</u>
450.898	-62.57	-13.0	49.6	78.6	Vertical	<u>PASS</u>
871.796	-51.34	-13.0	38.3	163.5	Vertical	<u>PASS</u>
1648.379	-36.10	-13.0	23.1	9.4	Vertical	<u>PASS</u>
12482.544	-36.18	-13.0	23.2	21.0	Vertical	<u>PASS</u>

(Plot E.2: WCDMA 850MHz Channel = 4132, Test Antenna Vertical)



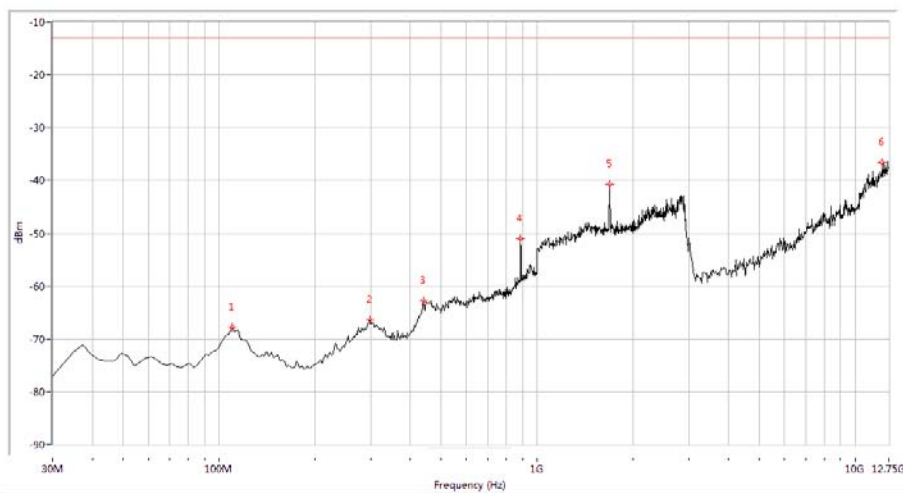
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-67.05	-13.0	54.1	163.9	Horizontal	<u>PASS</u>
286.409	-66.69	-13.0	53.7	254.1	Horizontal	<u>PASS</u>
448.479	-62.97	-13.0	50.0	33.0	Horizontal	<u>PASS</u>
879.052	-53.28	-13.0	40.3	78.9	Horizontal	<u>PASS</u>
1668.329	-40.66	-13.0	27.7	110.4	Horizontal	<u>PASS</u>
12263.716	-37.15	-13.0	24.2	312.8	Horizontal	<u>PASS</u>

(Plot E.3: WCDMA 850MHz Channel = 4175, Test Antenna Horizontal)



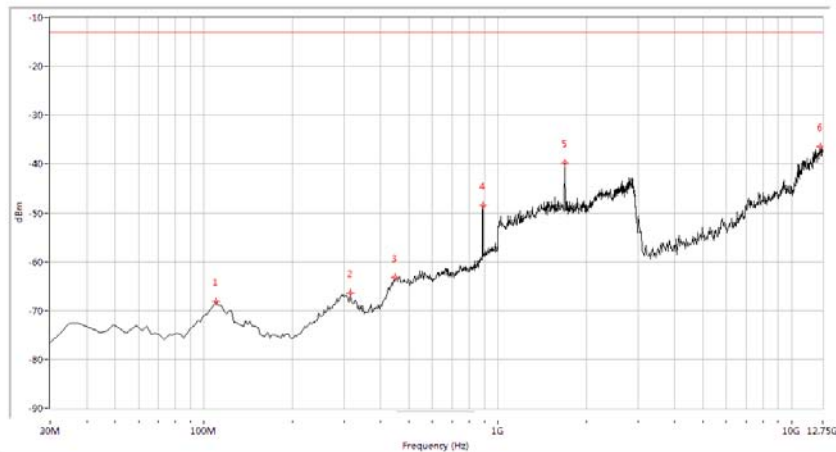
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
68.703	-68.81	-13.0	55.8	80.8	Vertical	<u>PASS</u>
109.825	-67.83	-13.0	54.8	332.3	Vertical	<u>PASS</u>
320.274	-66.27	-13.0	53.3	358.5	Vertical	<u>PASS</u>
879.052	-48.11	-13.0	35.1	352.9	Vertical	<u>PASS</u>
1668.329	-39.53	-13.0	26.5	159.5	Vertical	<u>PASS</u>
12312.344	-36.94	-13.0	23.9	78.6	Vertical	<u>PASS</u>

(Plot E.4: WCDMA 850MHz Channel = 4175, Test Antenna Vertical)



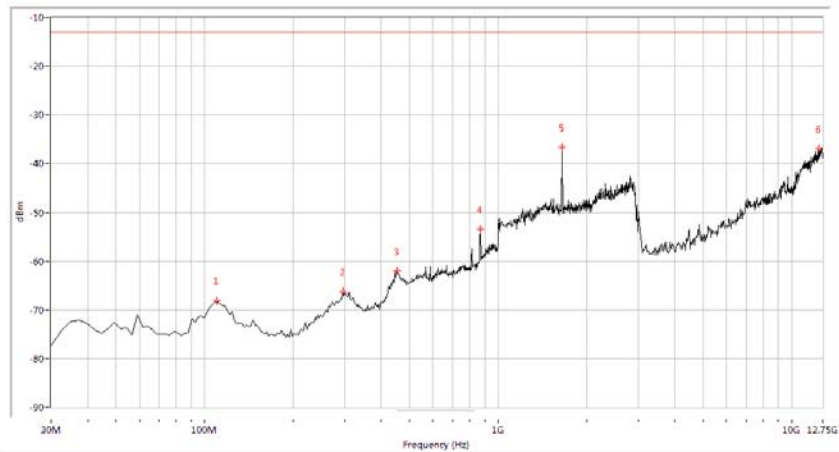
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-67.82	-13.0	54.8	337.6	Horizontal	<u>PASS</u>
298.504	-66.39	-13.0	53.4	31.3	Horizontal	<u>PASS</u>
438.803	-62.83	-13.0	49.8	40.3	Horizontal	<u>PASS</u>
888.728	-51.06	-13.0	38.1	31.3	Horizontal	<u>PASS</u>
1693.267	-40.70	-13.0	27.7	66.8	Horizontal	<u>PASS</u>
12142.145	-36.65	-13.0	23.7	101.1	Horizontal	<u>PASS</u>

(Plot E.5: WCDMA 850MHz Channel = 4233, Test Antenna Horizontal)



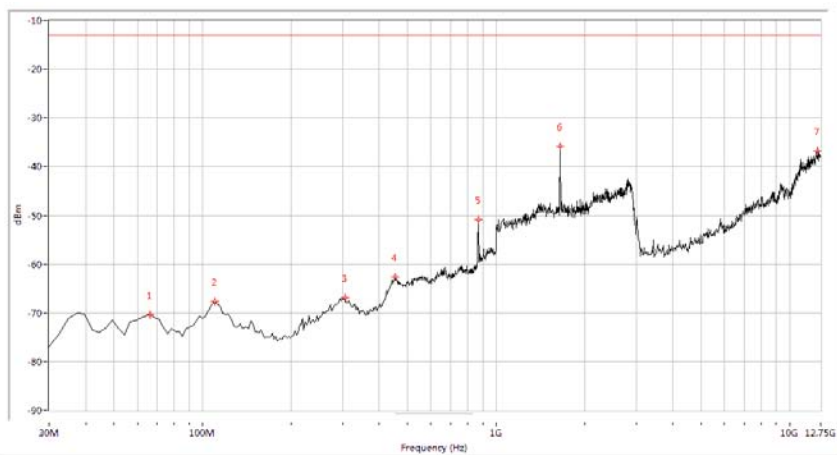
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-68.10	-13.0	55.1	122.4	Vertical	<u>PASS</u>
315.436	-66.46	-13.0	53.5	36.9	Vertical	<u>PASS</u>
448.479	-63.17	-13.0	50.2	360.0	Vertical	<u>PASS</u>
891.147	-48.52	-13.0	35.5	263.1	Vertical	<u>PASS</u>
1688.279	-39.80	-13.0	26.8	335.4	Vertical	<u>PASS</u>
12555.486	-36.53	-13.0	23.5	237.2	Vertical	<u>PASS</u>

(Plot E.6: WCDMA 850MHz Channel = 4233, Test Antenna Vertical)



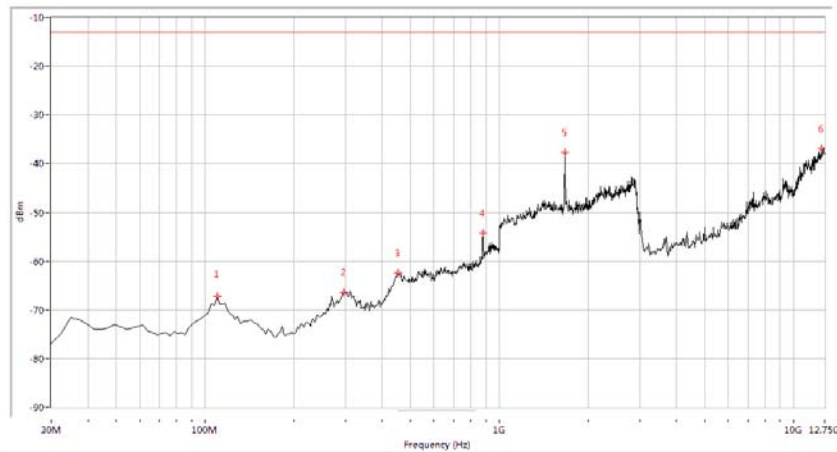
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-68.09	-13.0	55.1	114.2	Horizontal	<u>PASS</u>
296.085	-66.28	-13.0	53.3	42.1	Horizontal	<u>PASS</u>
453.317	-61.98	-13.0	49.0	26.9	Horizontal	<u>PASS</u>
869.377	-53.48	-13.0	40.5	7.4	Horizontal	<u>PASS</u>
1648.379	-36.58	-13.0	23.6	56.5	Horizontal	<u>PASS</u>
12385.287	-36.93	-13.0	23.9	69.6	Horizontal	<u>PASS</u>

(Plot G.1: HSDPA 850MHz Channel = 4132, Test Antenna Horizontal)



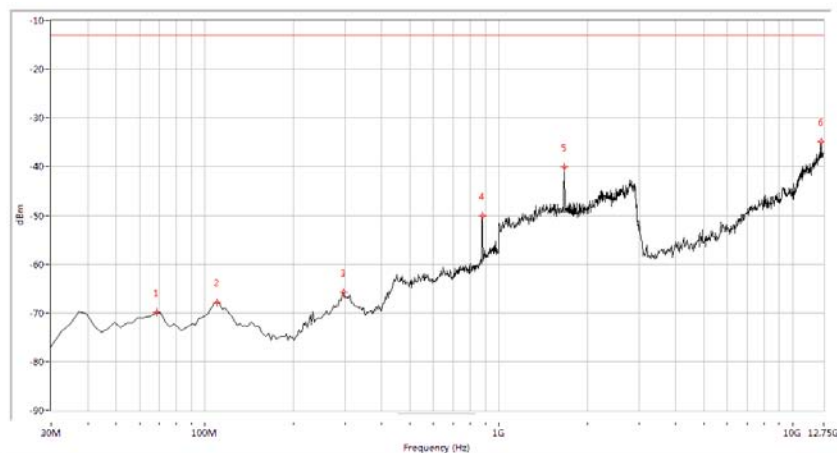
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
66.284	-70.36	-13.0	57.4	63.7	Vertical	<u>PASS</u>
109.825	-67.62	-13.0	54.6	141.1	Vertical	<u>PASS</u>
305.761	-66.83	-13.0	53.8	12.0	Vertical	<u>PASS</u>
453.317	-62.54	-13.0	49.5	336.2	Vertical	<u>PASS</u>
869.377	-50.82	-13.0	37.8	96.7	Vertical	<u>PASS</u>
1648.379	-35.86	-13.0	22.9	68.9	Vertical	<u>PASS</u>
12458.229	-36.83	-13.0	23.8	63.7	Vertical	<u>PASS</u>

(Plot G.2: HSDPA 850MHz Channel = 4132, Test Antenna Vertical)



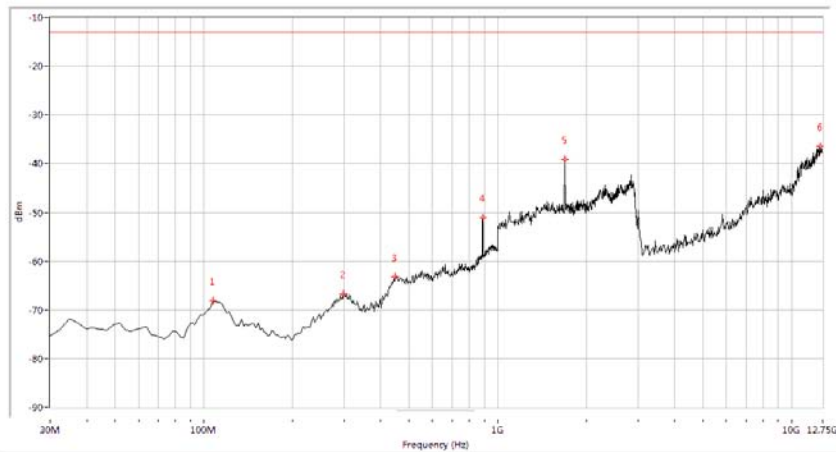
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-67.17	-13.0	54.2	12.6	Horizontal	<u>PASS</u>
296.085	-66.44	-13.0	53.4	243.5	Horizontal	<u>PASS</u>
453.317	-62.40	-13.0	49.4	169.8	Horizontal	<u>PASS</u>
879.052	-54.25	-13.0	41.3	63.4	Horizontal	<u>PASS</u>
1668.329	-37.73	-13.0	24.7	74.1	Horizontal	<u>PASS</u>
12433.915	-36.99	-13.0	24.0	330.2	Horizontal	<u>PASS</u>

(Plot G.3: HSDPA 850MHz Channel = 4175, Test Antenna Horizontal)



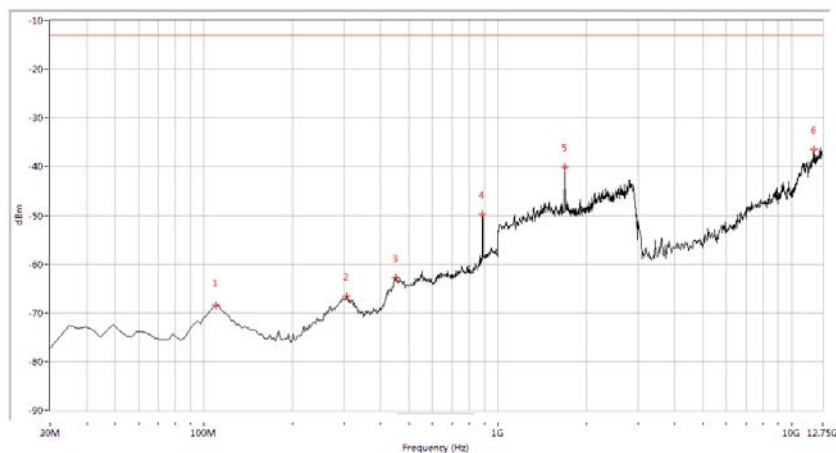
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
68.703	-69.85	-13.0	56.9	136.5	Vertical	<u>PASS</u>
109.825	-67.76	-13.0	54.8	45.2	Vertical	<u>PASS</u>
296.085	-65.79	-13.0	52.8	78.7	Vertical	<u>PASS</u>
879.052	-50.03	-13.0	37.0	245.1	Vertical	<u>PASS</u>
1668.329	-40.04	-13.0	27.0	36.6	Vertical	<u>PASS</u>
12506.858	-34.89	-13.0	21.9	352.0	Vertical	<u>PASS</u>

(Plot G.4: HSDPA 850MHz Channel = 4175, Test Antenna Vertical)



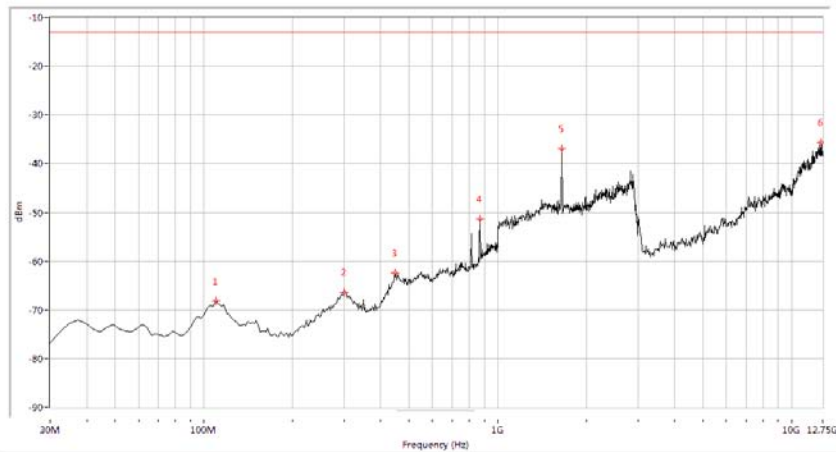
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
107.406	-68.17	-13.0	55.2	74.0	Horizontal	<u>PASS</u>
298.504	-66.78	-13.0	53.8	250.3	Horizontal	<u>PASS</u>
448.479	-63.16	-13.0	50.2	250.3	Horizontal	<u>PASS</u>
891.147	-51.08	-13.0	38.1	292.4	Horizontal	<u>PASS</u>
1688.279	-39.21	-13.0	26.2	278.1	Horizontal	<u>PASS</u>
12506.858	-36.43	-13.0	23.4	104.2	Horizontal	<u>PASS</u>

(Plot G.5: HSDPA 850MHz Channel = 4233, Test Antenna Horizontal)



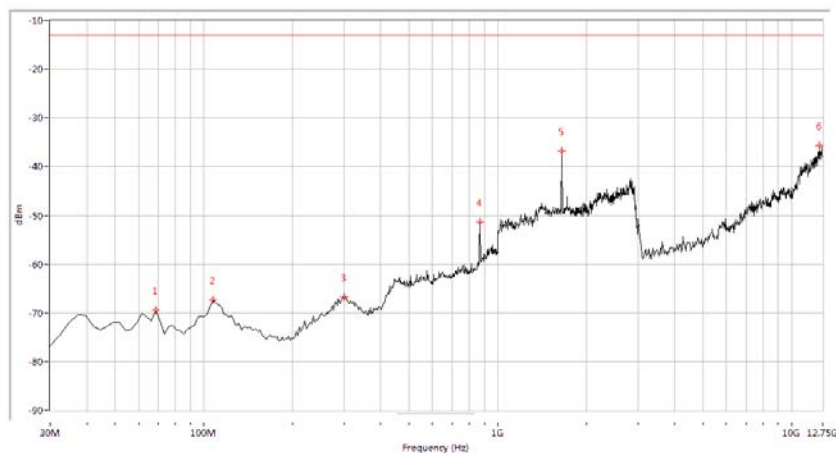
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-68.42	-13.0	55.4	165.7	Vertical	<u>PASS</u>
305.761	-66.59	-13.0	53.6	246.5	Vertical	<u>PASS</u>
450.898	-62.70	-13.0	49.7	-0.0	Vertical	<u>PASS</u>
888.728	-49.69	-13.0	36.7	198.5	Vertical	<u>PASS</u>
1693.267	-40.05	-13.0	27.0	84.1	Vertical	<u>PASS</u>
11899.002	-36.51	-13.0	23.5	121.1	Vertical	<u>PASS</u>

(Plot G.6: HSDPA 850MHz Channel = 4233, Test Antenna Vertical)



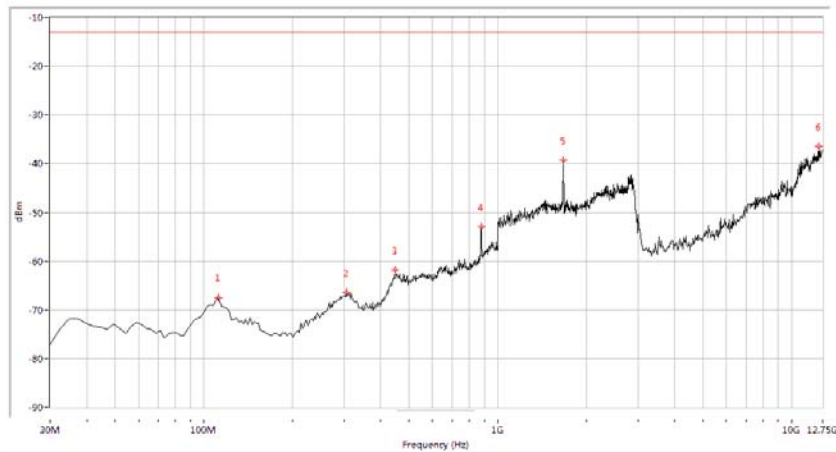
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-68.20	-13.0	55.2	13.5	Horizontal	<u>PASS</u>
300.923	-66.37	-13.0	53.4	224.0	Horizontal	<u>PASS</u>
448.479	-62.36	-13.0	49.4	78.6	Horizontal	<u>PASS</u>
869.377	-51.33	-13.0	38.3	245.7	Horizontal	<u>PASS</u>
1648.379	-36.96	-13.0	24.0	3.7	Horizontal	<u>PASS</u>
12628.429	-35.69	-13.0	22.7	105.9	Horizontal	<u>PASS</u>

(Plot I.1: HSUPA 850MHz Channel = 4132, Test Antenna Horizontal)



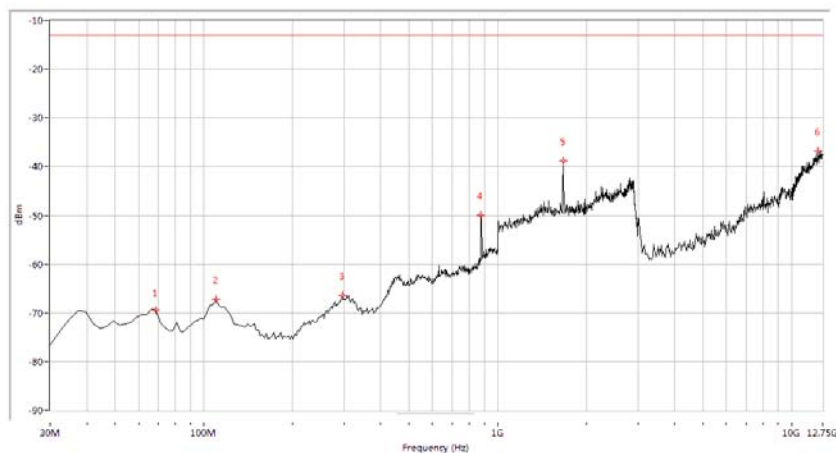
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
68.703	-69.40	-13.0	56.4	12.4	Vertical	<u>PASS</u>
107.406	-67.30	-13.0	54.3	63.7	Vertical	<u>PASS</u>
300.923	-66.70	-13.0	53.7	78.9	Vertical	<u>PASS</u>
869.377	-51.35	-13.0	38.3	124.5	Vertical	<u>PASS</u>
1648.379	-36.75	-13.0	23.7	205.8	Vertical	<u>PASS</u>
12433.915	-35.74	-13.0	22.7	2.3	Vertical	<u>PASS</u>

(Plot I.2: HSUPA 850 MHz Channel = 4132, Test Antenna Vertical)



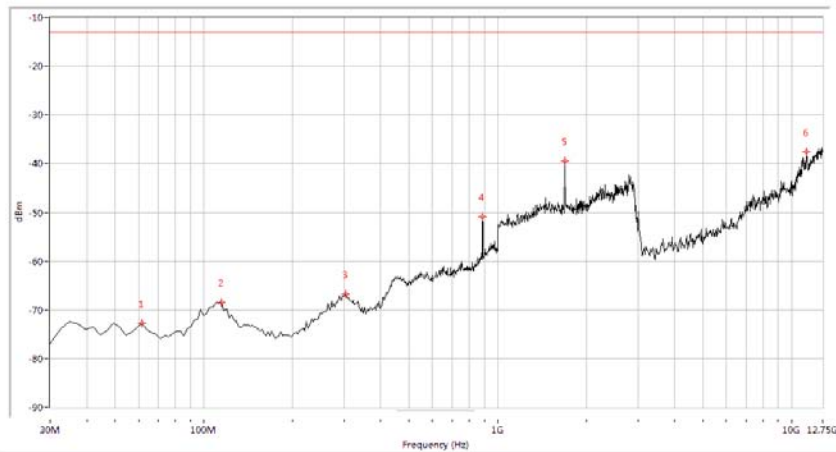
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
112.244	-67.44	-13.0	54.4	9.1	Horizontal	<u>PASS</u>
305.761	-66.42	-13.0	53.4	192.4	Horizontal	<u>PASS</u>
448.479	-61.88	-13.0	48.9	360.0	Horizontal	<u>PASS</u>
879.052	-52.94	-13.0	39.9	310.6	Horizontal	<u>PASS</u>
1668.329	-39.37	-13.0	26.4	189.5	Horizontal	<u>PASS</u>
12385.287	-36.38	-13.0	23.4	158.1	Horizontal	<u>PASS</u>

(Plot I.3: HSUPA 850MHz Channel = 4175, Test Antenna Horizontal)



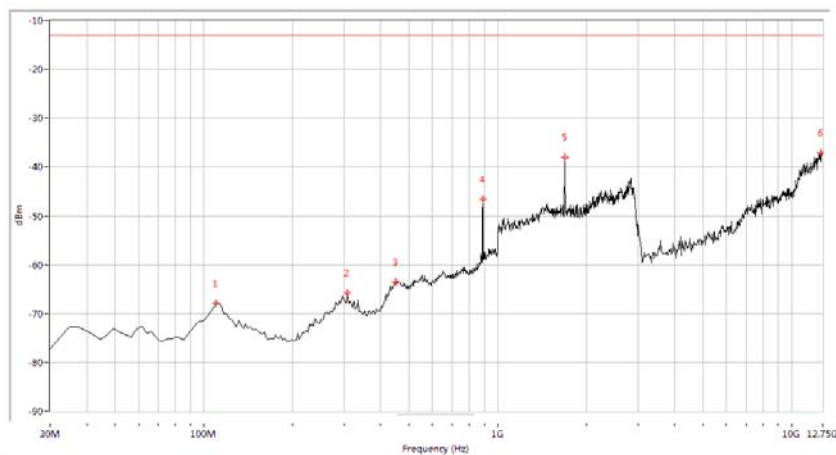
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
68.703	-69.47	-13.0	56.5	61.9	Vertical	<u>PASS</u>
109.825	-67.11	-13.0	54.1	307.6	Vertical	<u>PASS</u>
296.085	-66.38	-13.0	53.4	249.9	Vertical	<u>PASS</u>
876.633	-49.96	-13.0	37.0	311.6	Vertical	<u>PASS</u>
1668.329	-38.77	-13.0	25.8	318.2	Vertical	<u>PASS</u>
12312.344	-36.76	-13.0	23.8	149.9	Vertical	<u>PASS</u>

(Plot I.4: HSUPA 850MHz Channel = 4175, Test Antenna Vertical)



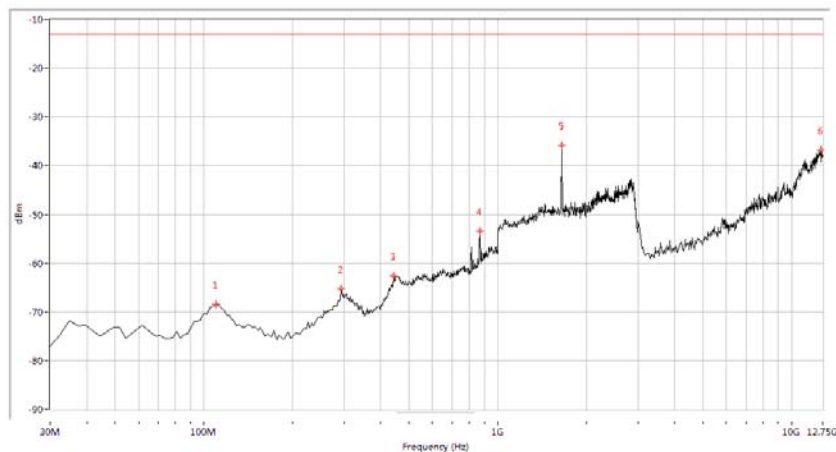
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
61.446	-72.81	-13.0	59.8	28.3	Horizontal	<u>PASS</u>
114.663	-68.41	-13.0	55.4	148.9	Horizontal	<u>PASS</u>
303.342	-66.79	-13.0	53.8	24.3	Horizontal	<u>PASS</u>
888.728	-50.89	-13.0	37.9	113.5	Horizontal	<u>PASS</u>
1688.279	-39.40	-13.0	26.4	262.5	Horizontal	<u>PASS</u>
11242.519	-37.57	-13.0	24.6	360.0	Horizontal	<u>PASS</u>

(Plot I.5: HSUPA 850MHz Channel = 4233, Test Antenna Horizontal)



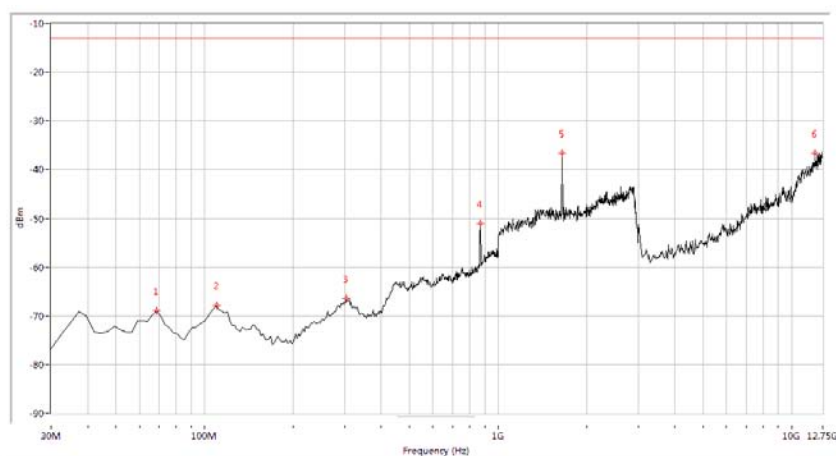
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-67.90	-13.0	54.9	51.0	Vertical	<u>PASS</u>
308.180	-65.72	-13.0	52.7	269.0	Vertical	<u>PASS</u>
450.898	-63.60	-13.0	50.6	23.9	Vertical	<u>PASS</u>
891.147	-46.66	-13.0	33.7	103.3	Vertical	<u>PASS</u>
1688.279	-38.07	-13.0	25.1	224.2	Vertical	<u>PASS</u>
12579.800	-37.01	-13.0	24.0	170.5	Vertical	<u>PASS</u>

(Plot I.6: HSUPA 850MHz Channel = 4233, Test Antenna Vertical)



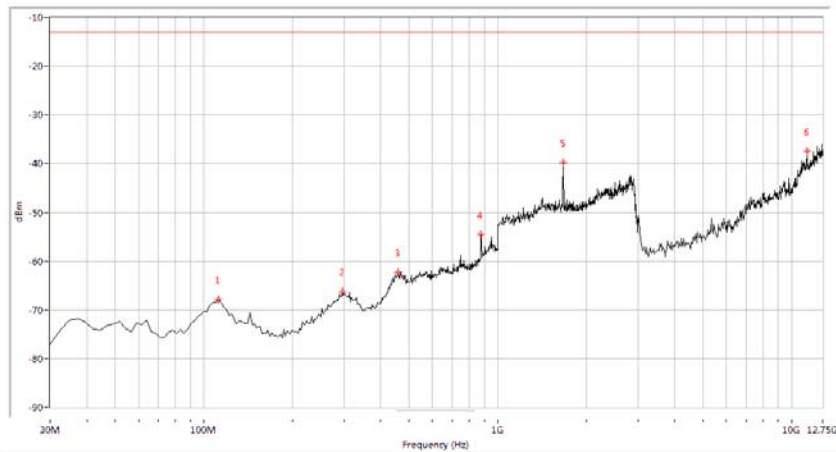
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-68.40	-13.0	55.4	124.6	Horizontal	<u>PASS</u>
293.666	-65.23	-13.0	52.2	8.9	Horizontal	<u>PASS</u>
441.222	-62.64	-13.0	49.6	205.4	Horizontal	<u>PASS</u>
869.377	-53.34	-13.0	40.3	123.0	Horizontal	<u>PASS</u>
1648.379	-35.81	-13.0	22.8	23.2	Horizontal	<u>PASS</u>
12579.800	-36.84	-13.0	23.8	63.9	Horizontal	<u>PASS</u>

(Plot K.1: HSPA+ 850MHz Channel = 4132, Test Antenna Horizontal)



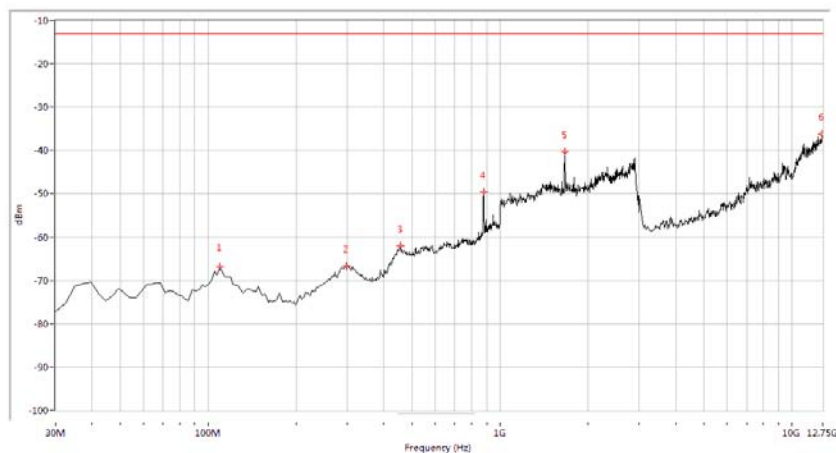
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
68.703	-68.95	-13.0	56.0	63.4	Vertical	<u>PASS</u>
109.825	-67.81	-13.0	54.8	12.0	Vertical	<u>PASS</u>
303.342	-66.42	-13.0	53.4	157.8	Vertical	<u>PASS</u>
869.377	-50.95	-13.0	38.0	246.9	Vertical	<u>PASS</u>
1648.379	-36.58	-13.0	23.6	3.6	Vertical	<u>PASS</u>
11996.259	-36.68	-13.0	23.7	323.5	Vertical	<u>PASS</u>

(Plot K.2: HSPA+ 850 MHz Channel = 4132, Test Antenna Vertical)



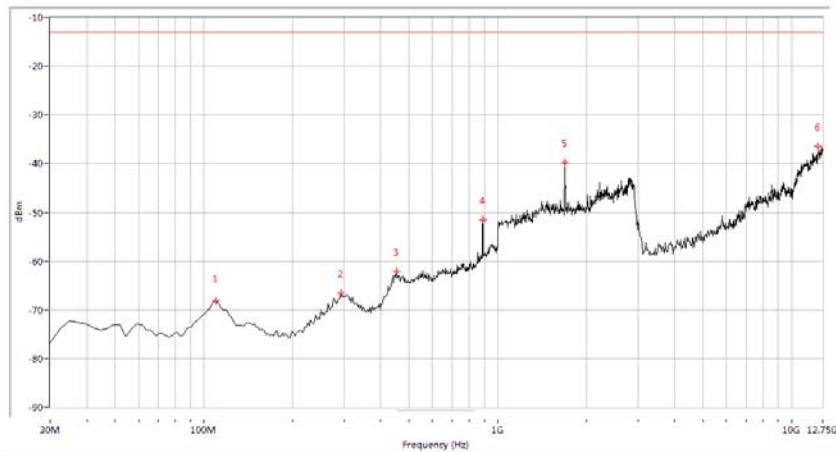
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
112.244	-67.76	-13.0	54.8	114.1	Horizontal	<u>PASS</u>
296.085	-66.29	-13.0	53.3	281.4	Horizontal	<u>PASS</u>
458.155	-62.33	-13.0	49.3	-0.0	Horizontal	<u>PASS</u>
876.633	-54.54	-13.0	41.5	12.8	Horizontal	<u>PASS</u>
1668.329	-39.71	-13.0	26.7	315.3	Horizontal	<u>PASS</u>
11291.147	-37.33	-13.0	24.3	127.6	Horizontal	<u>PASS</u>

(Plot K.3: HSPA+ 850MHz Channel = 4175, Test Antenna Horizontal)



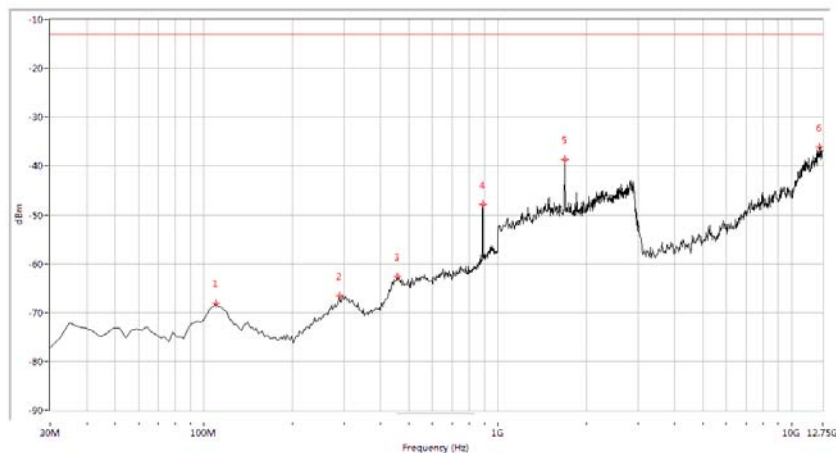
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-66.91	-13.0	53.9	59.7	Vertical	<u>PASS</u>
298.504	-66.73	-13.0	53.7	264.3	Vertical	<u>PASS</u>
455.736	-61.97	-13.0	49.0	288.9	Vertical	<u>PASS</u>
879.052	-49.52	-13.0	36.5	269.9	Vertical	<u>PASS</u>
1673.317	-40.33	-13.0	27.3	215.8	Vertical	<u>PASS</u>
12677.057	-36.21	-13.0	23.2	55.3	Vertical	<u>PASS</u>

(Plot K.4: HSPA+ 850MHz Channel = 4175, Test Antenna Vertical)



Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-68.14	-13.0	55.1	109.4	Horizontal	<u>PASS</u>
293.666	-66.60	-13.0	53.6	293.2	Horizontal	<u>PASS</u>
453.317	-62.12	-13.0	49.1	-0.0	Horizontal	<u>PASS</u>
891.147	-51.50	-13.0	38.5	74.5	Horizontal	<u>PASS</u>
1688.279	-39.84	-13.0	26.8	149.9	Horizontal	<u>PASS</u>
12312.344	-36.44	-13.0	23.4	319.0	Horizontal	<u>PASS</u>

(Plot K.5: HSPA+ 850MHz Channel = 4233, Test Antenna Horizontal)



Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-68.21	-13.0	55.2	32.3	Vertical	<u>PASS</u>
288.828	-66.61	-13.0	53.6	205.3	Vertical	<u>PASS</u>
455.736	-62.57	-13.0	49.6	36.3	Vertical	<u>PASS</u>
891.147	-47.91	-13.0	34.9	145.8	Vertical	<u>PASS</u>
1688.279	-38.64	-13.0	25.6	328.6	Vertical	<u>PASS</u>
12482.544	-36.19	-13.0	23.2	240.9	Vertical	<u>PASS</u>

(Plot K.6: HSPA+ 850MHz Channel = 4233, Test Antenna Vertical)

** END OF REPORT **