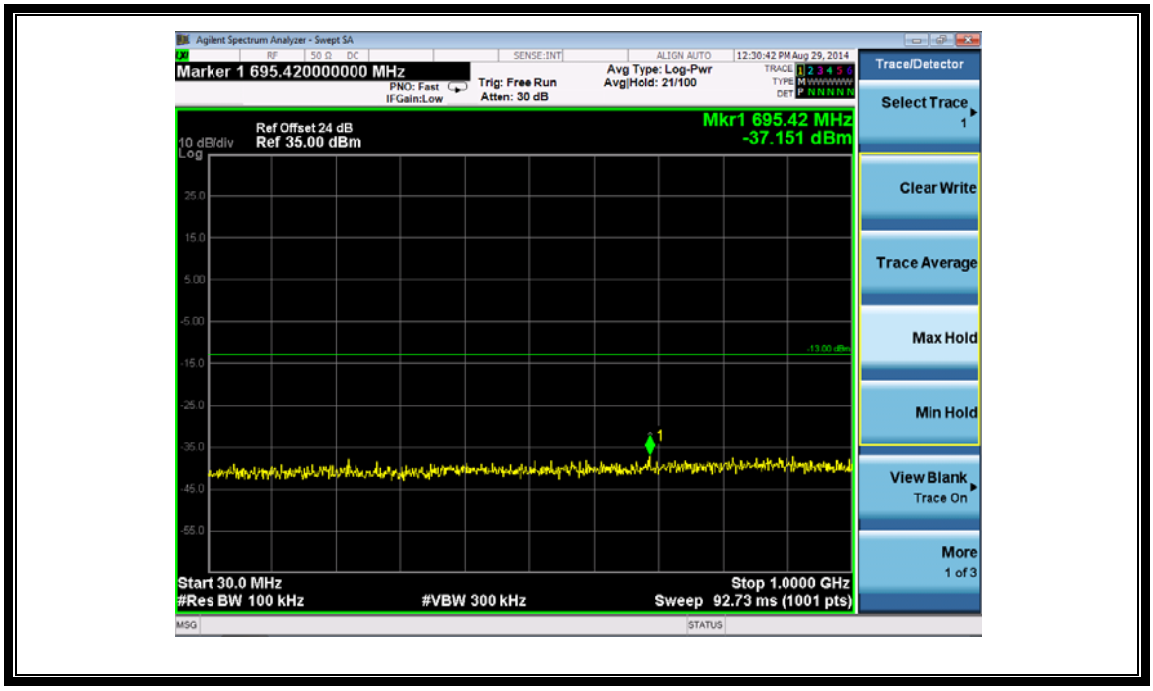
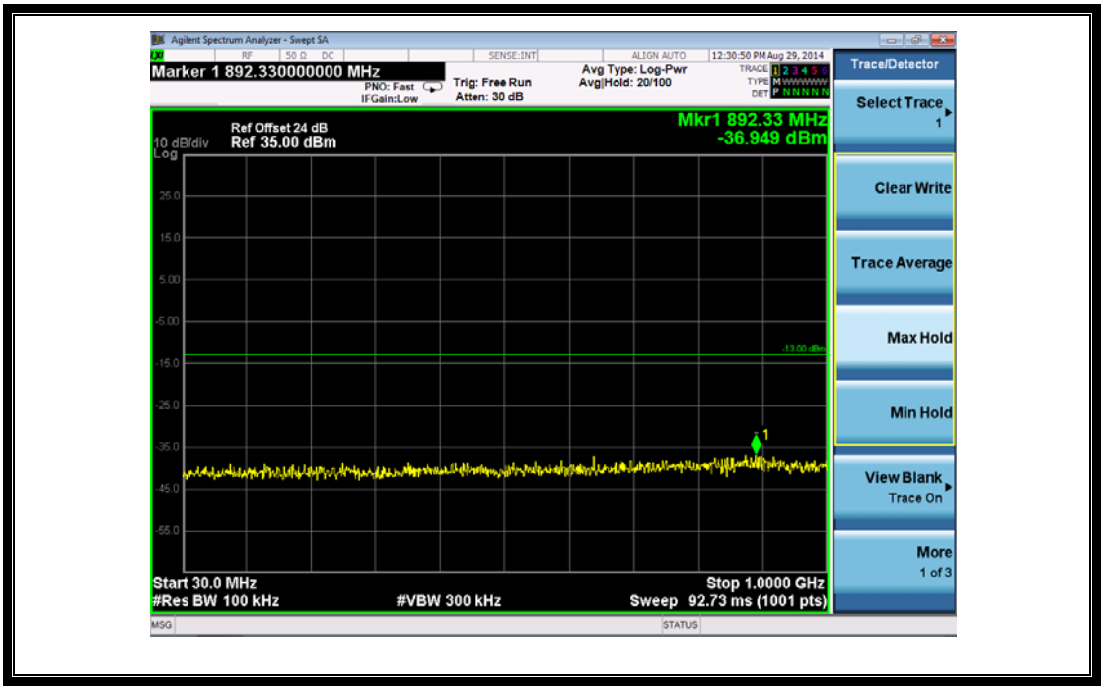


(Plot K 2: HSPA+ 1900MHz Channel = 9400, 30MHz to 1GHz)

(Plot K2.1: HSPA+ 1900MHz Channel = 9400, 1GHz to 20GHz)



(Plot K 3: HSPA+ 1900MHz Channel = 9538, 30MHz to 1GHz)

(Plot K3.1: HSPA+ 1900MHz Channel = 9538 1GHz to 20GHz)

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

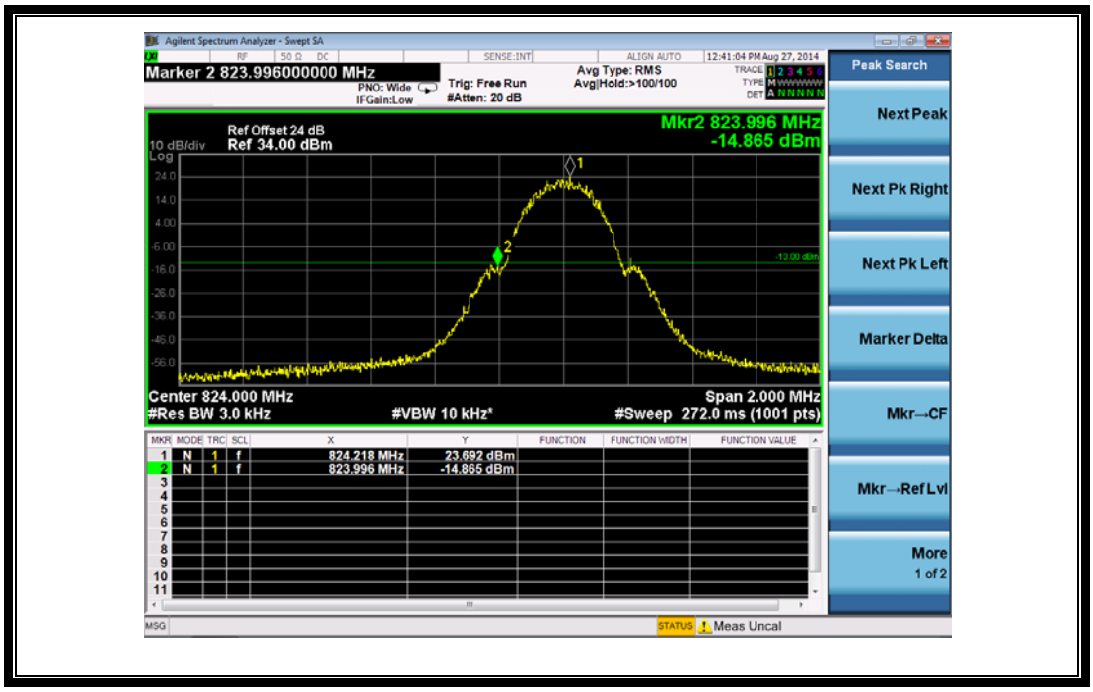
The lowest and highest channels are tested to verify the band edge emissions.

1. Test Verdict:

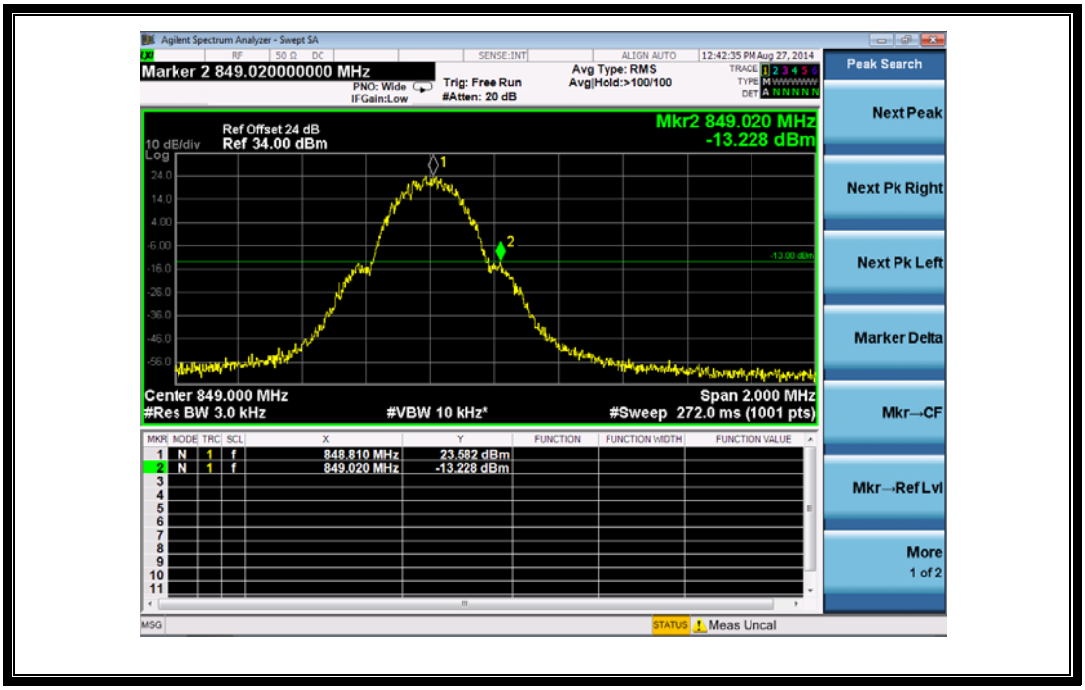
Band	Channel	Frequency (MHz)	Measured Max. Band Edge Emission (dBm)	Refer to Plot	Limit (dBm)	Verdict
GSM 850MHz	128	824.2	-14.865	Plat A	-13	PASS
	251	848.8	-13.228	Plot B		PASS
GSM 1900MHz	512	1850.2	-16.095	Plat C	-13	PASS
	810	1909.8	-18.074	Plot D		PASS
EDGE 850MHz	128	824.2	-17.163	Plat E	-13	PASS
	251	848.8	-14.343	Plot F		PASS
EDGE 1900MHz	512	1850.2	-18.347	Plat G	-13	PASS
	810	1909.8	-17.950	Plot H		PASS
WCDMA 850MHz	4132	826.4	-14.867	Plat I	-13	PASS
	4233	846.6	-15.620	Plot J		PASS
WCDMA 1900MHz	9262	1852.4	-23.529	Plat K	-13	PASS
	9538	1907.6	-22.806	Plot L		PASS
HSDPA 850MHz	4132	826.4	-22.399	Plat M	-13	PASS
	4233	846.6	-21.546	Plot N		PASS
HSDPA 1900MHz	9262	1852.4	-23.548	Plat O	-13	PASS
	9538	1907.6	-23.187	Plot P		PASS
HSUPA 850MHz	4132	826.4	-43.694	Plat Q	-13	PASS
	4233	846.6	-33.980	Plot R		PASS
HSUPA	9262	1852.4	-29.429	Plat S	-13	PASS

1900MHz	9538	1907.6	-26.801	Plot T		PASS
HSPA+	4132	826.4	-23.275	Plat U	-13	PASS
850MHz	4233	846.6	-23.041	Plot V		PASS
HSPA+	9262	1852.4	-23.515	Plat W	-13	PASS
1900MHz	9538	1907.6	-21.022	Plot X		PASS

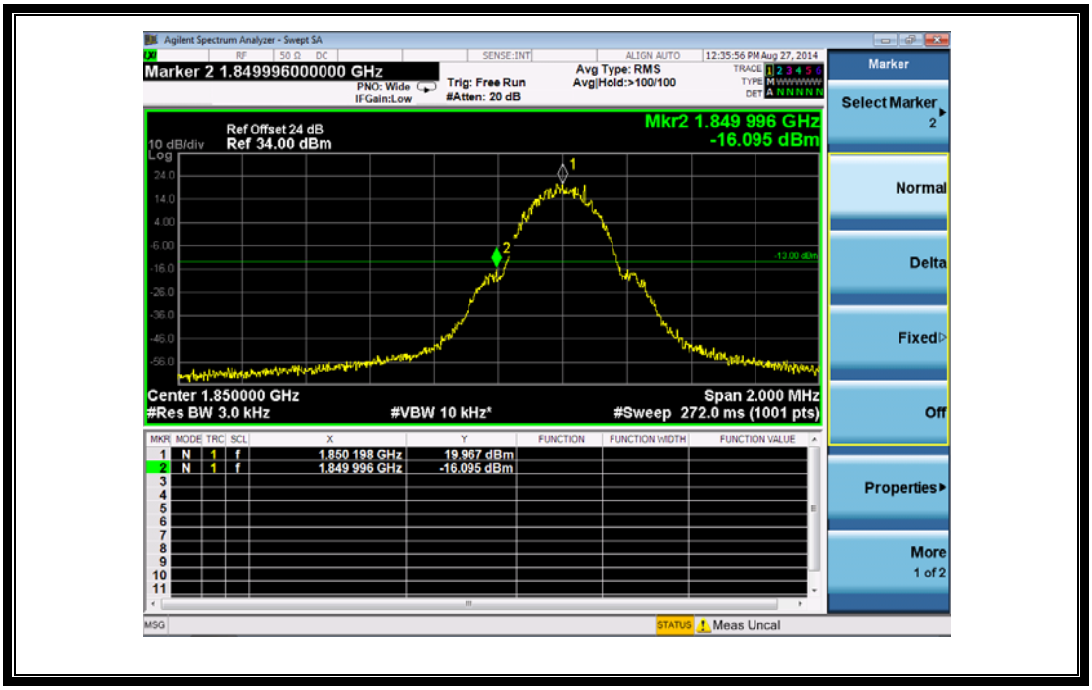
2. Test Plots:



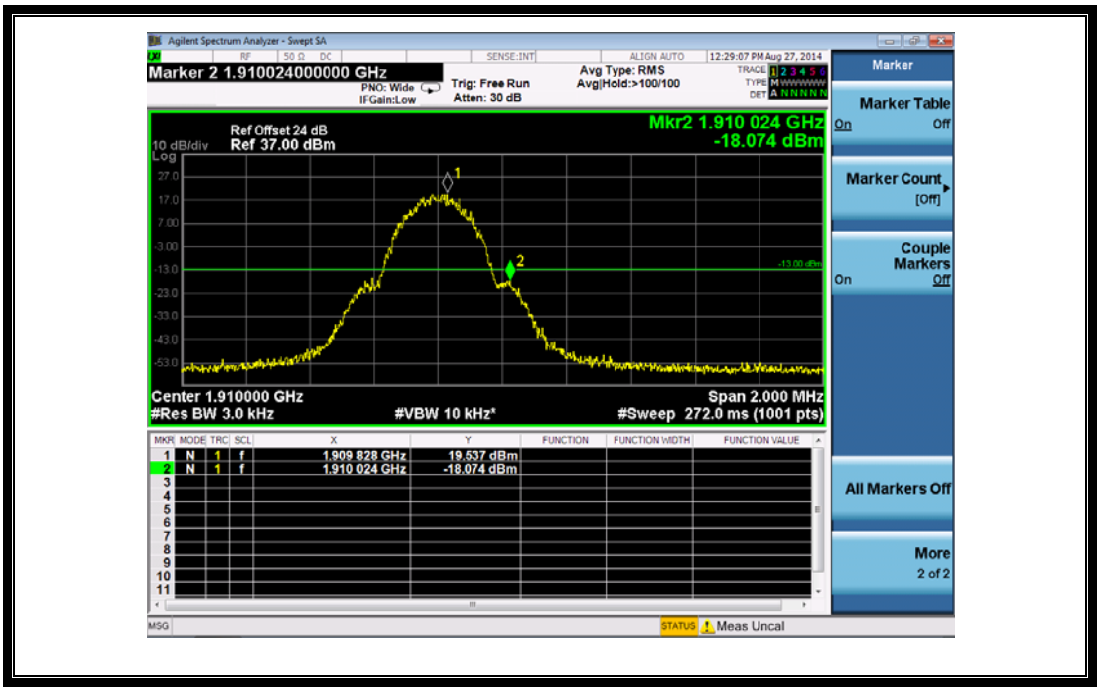
(Plot A: GSM 850 Channel = 128)



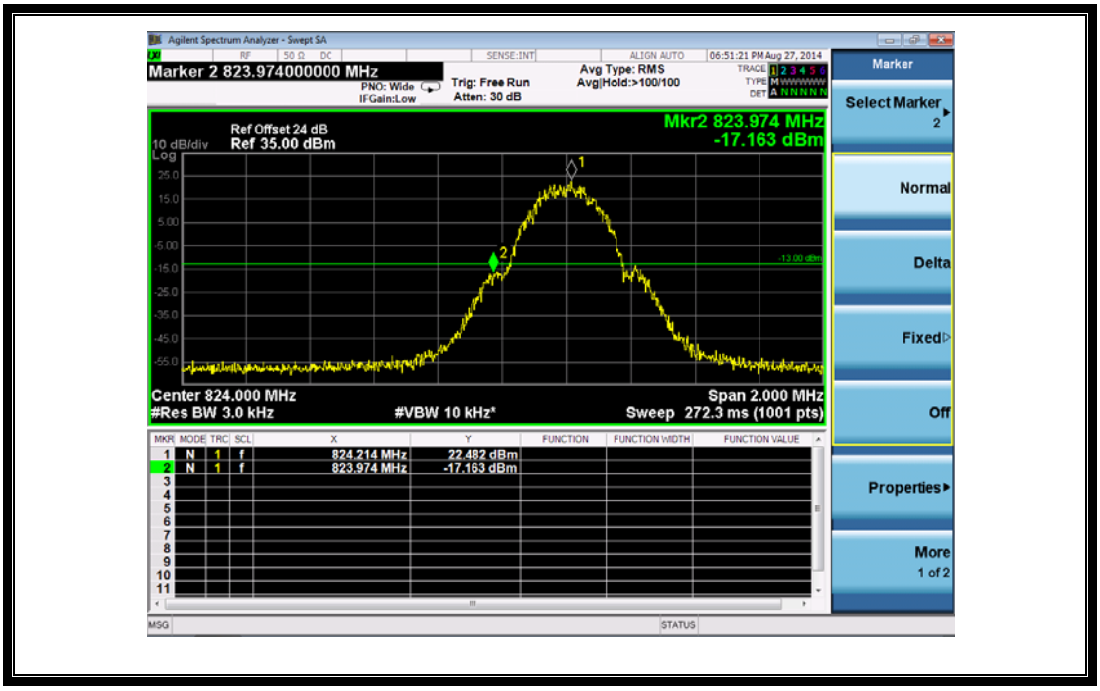
(Plot B: GSM 850 Channel = 251)



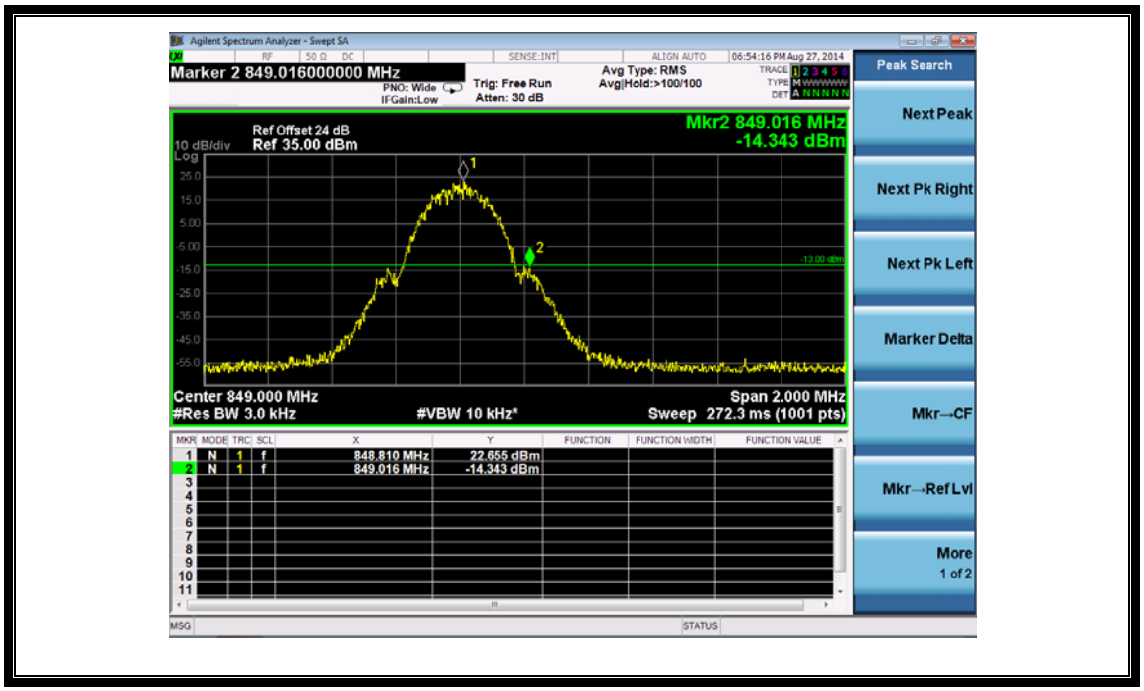
(Plot C: GSM 1900 Channel = 512)



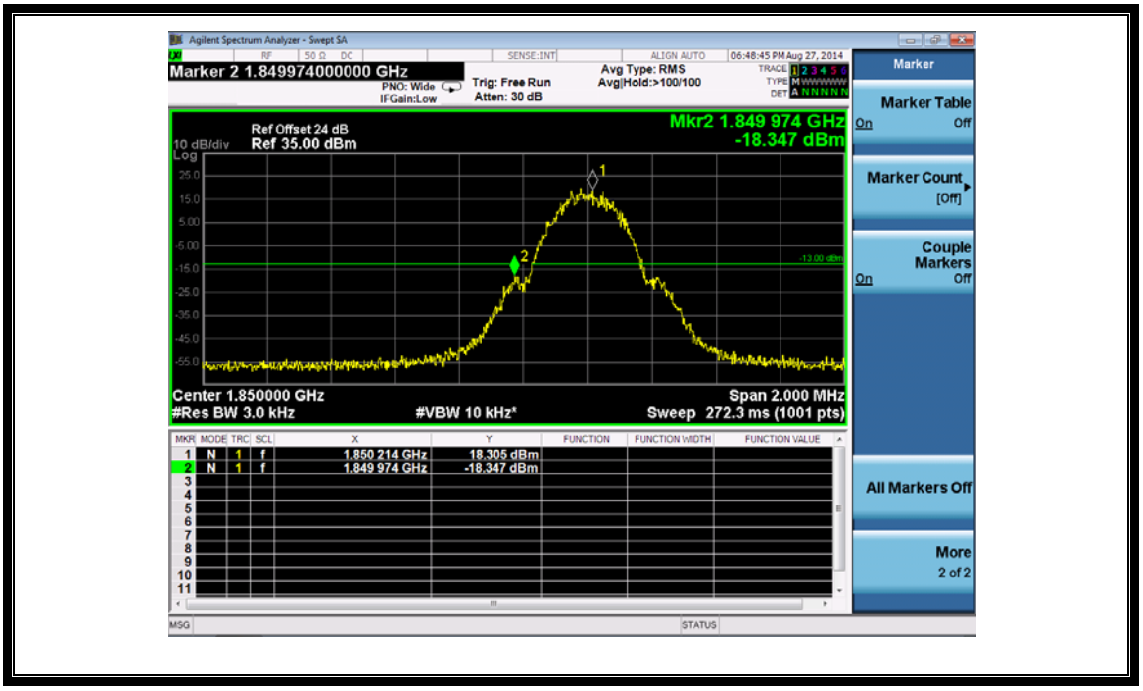
(Plot D: GSM 1900 Channel = 810)



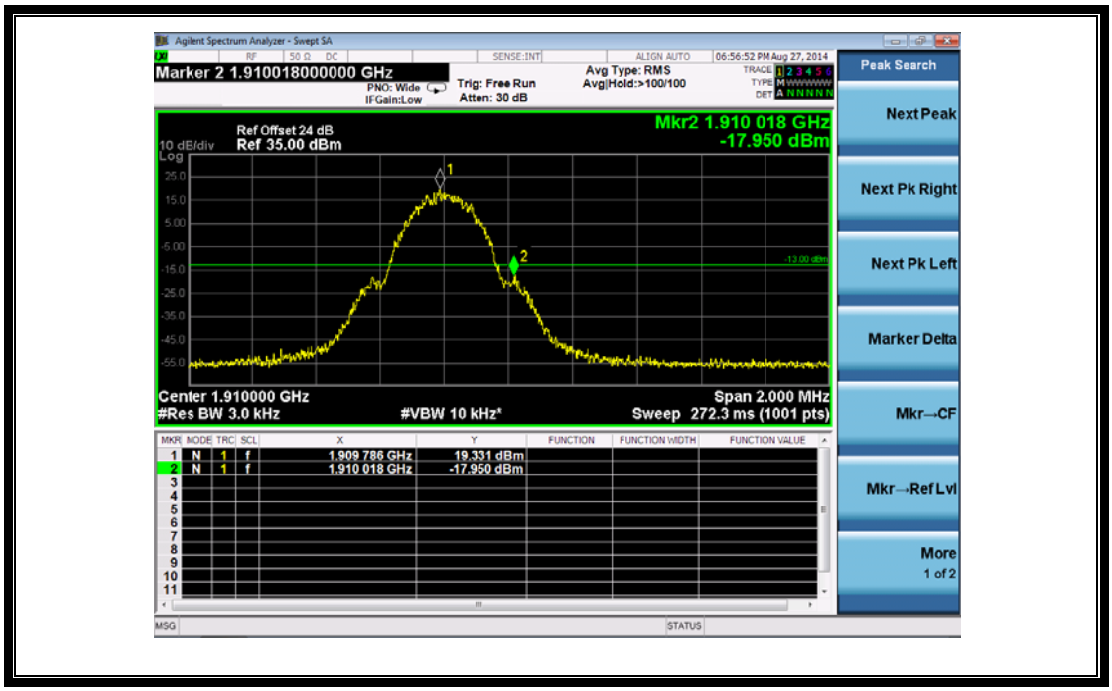
(Plot E: EGPRS 850 Channel = 128)



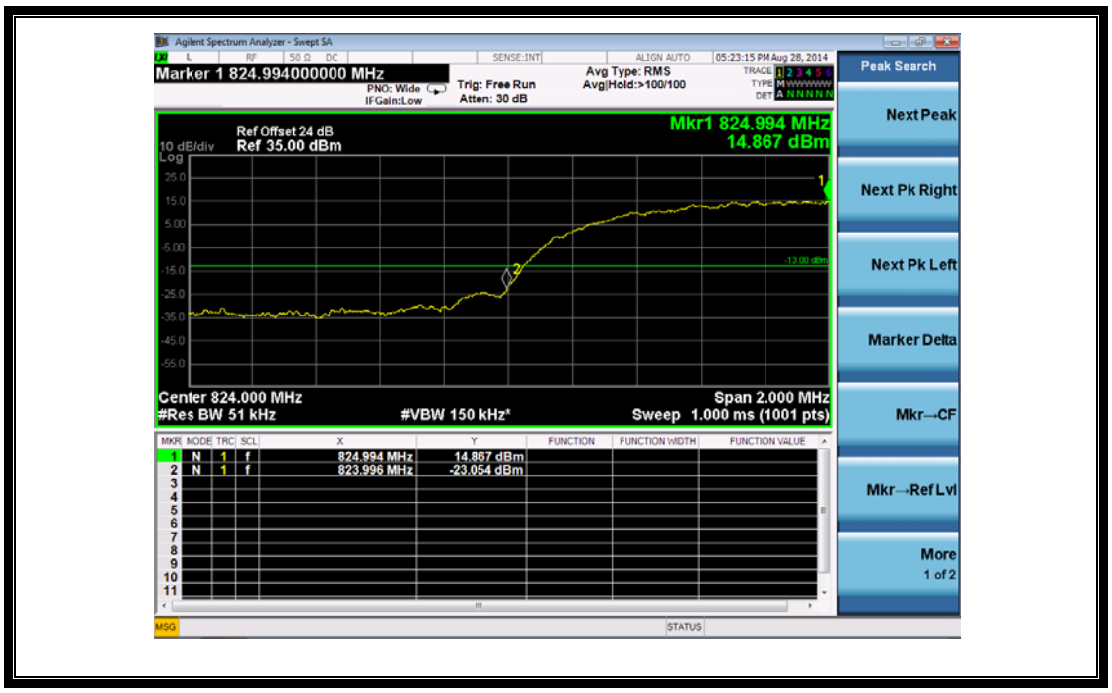
(Plot F: EGPRS 850 Channel = 251)



(Plot G: EGPRS 1900 Channel = 512)

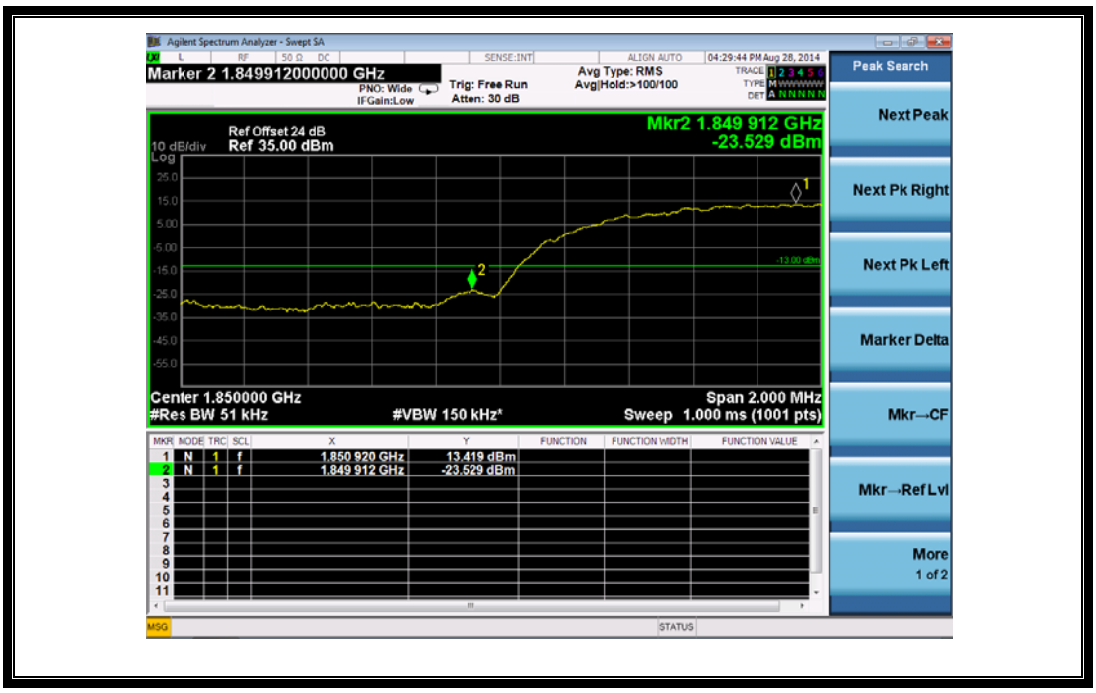


(Plot H: EGPRS 1900 Channel = 810)

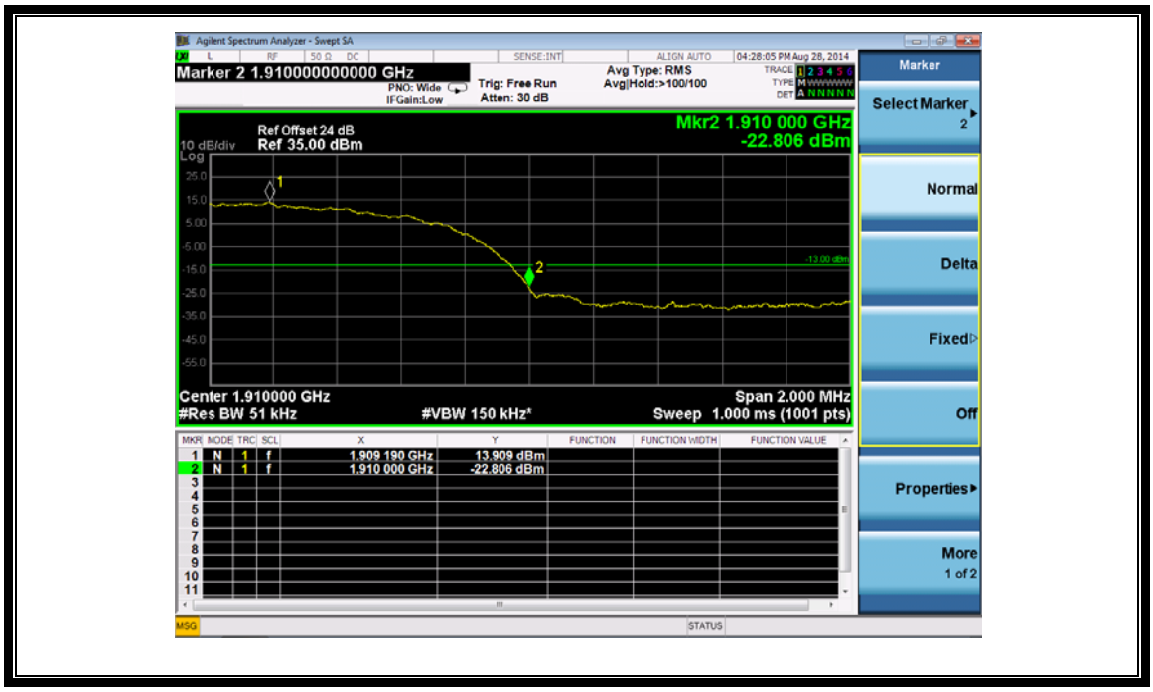


(Plot I: WCDMA 850 Channel = 4132)

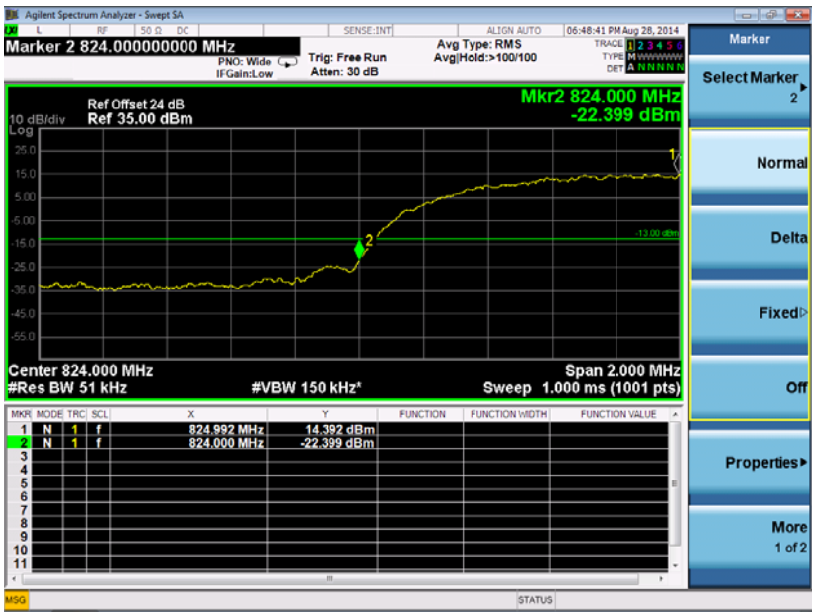
(Plot J: WCDMA 850 Channel = 4233)



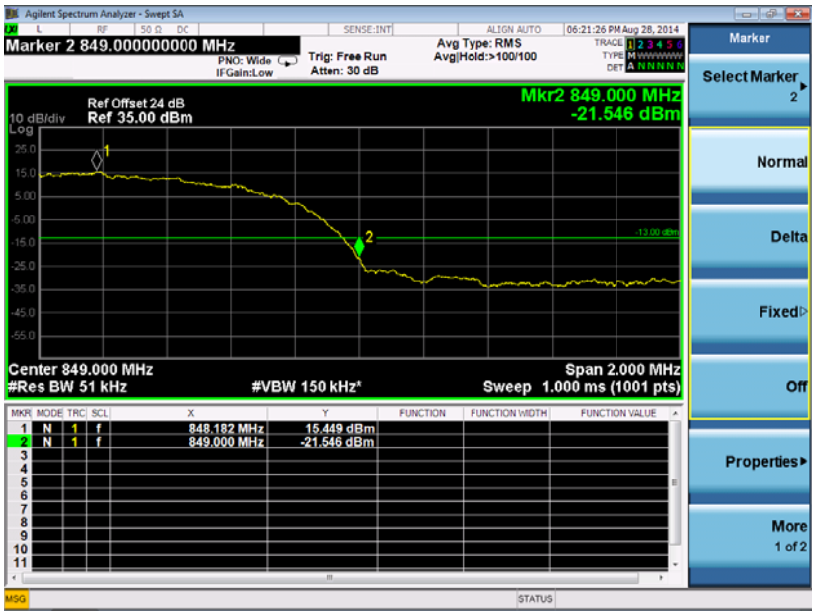
(Plot K: WCDMA 1900 Channel = 9262)



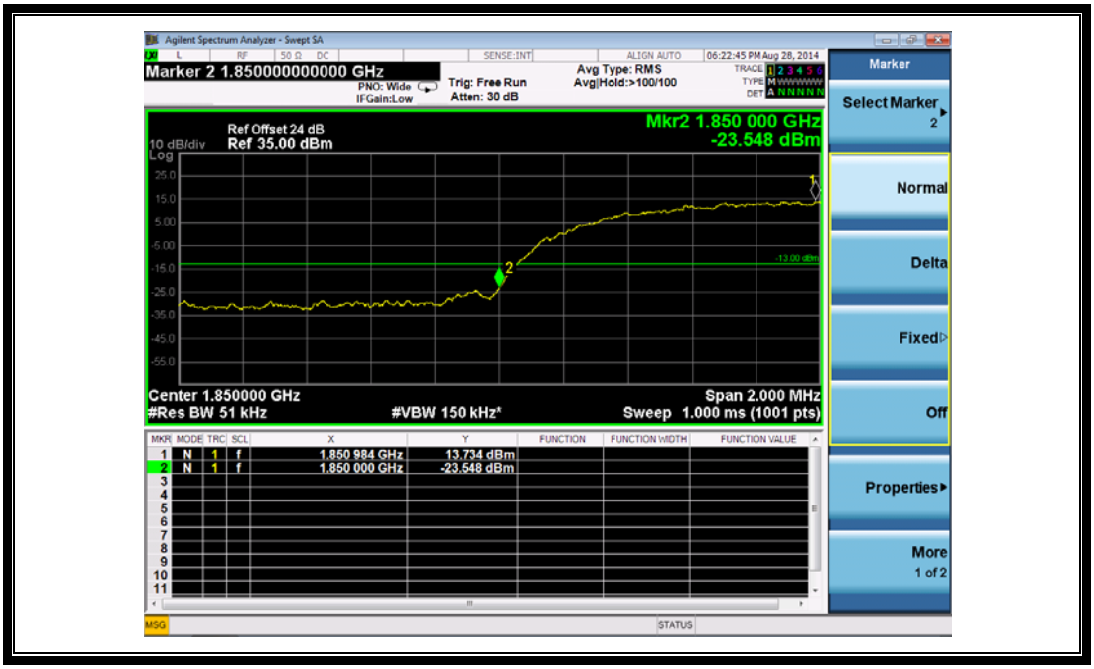
(Plot L: WCDMA 1900 Channel = 9538)



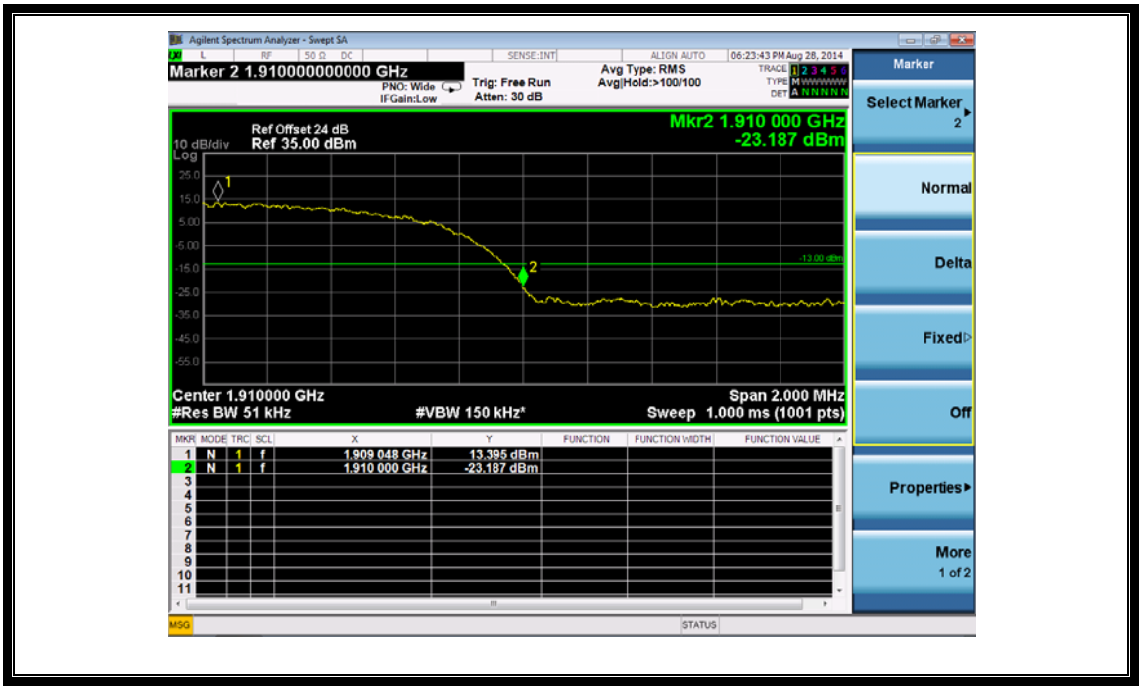
(Plot M: HSDPA 850 Channel = 4132)



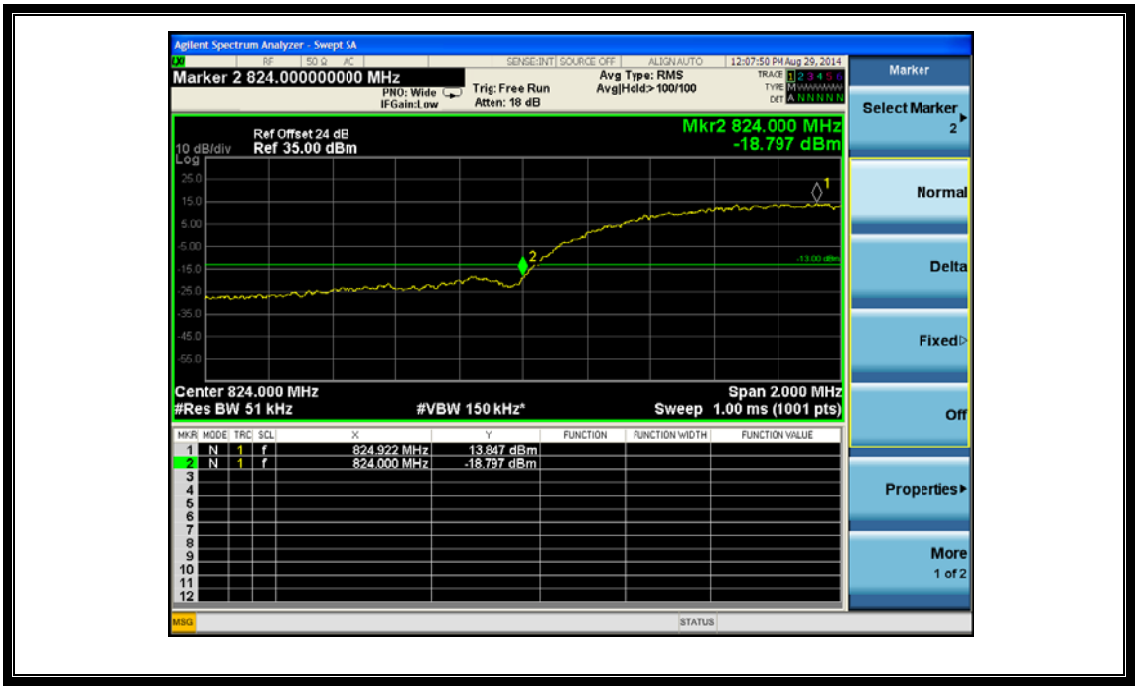
(Plot N: HSDPA850 Channel = 4233)



(Plot O: HSDPA 1900 Channel = 9262)

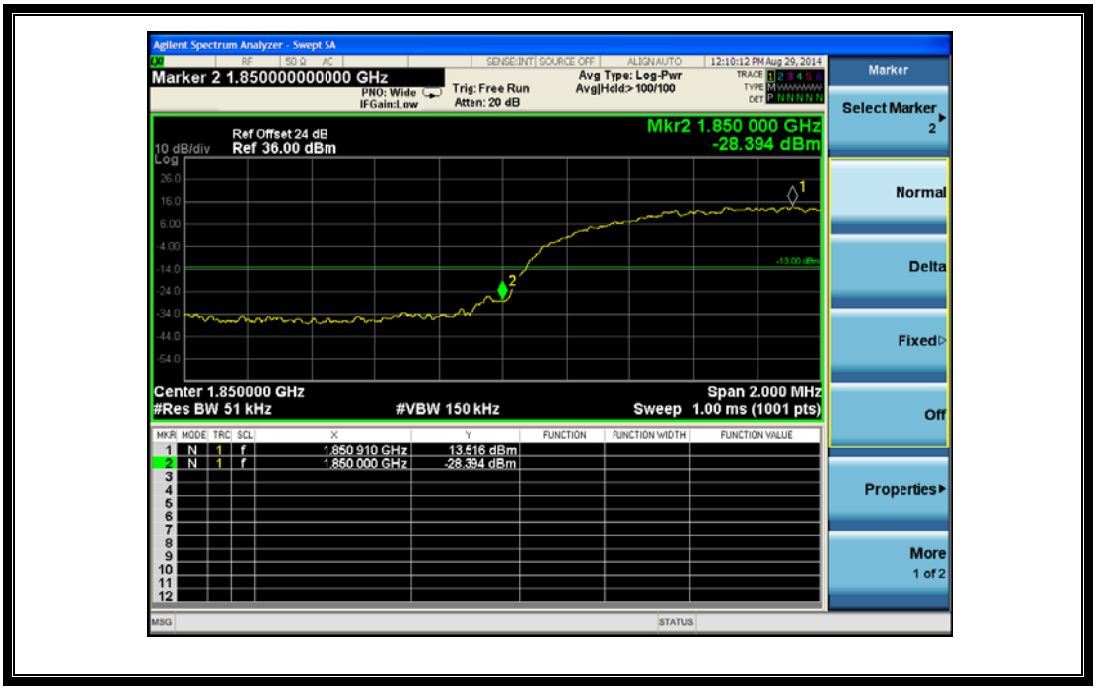


(Plot P: HSDPA 1900 Channel = 9538)



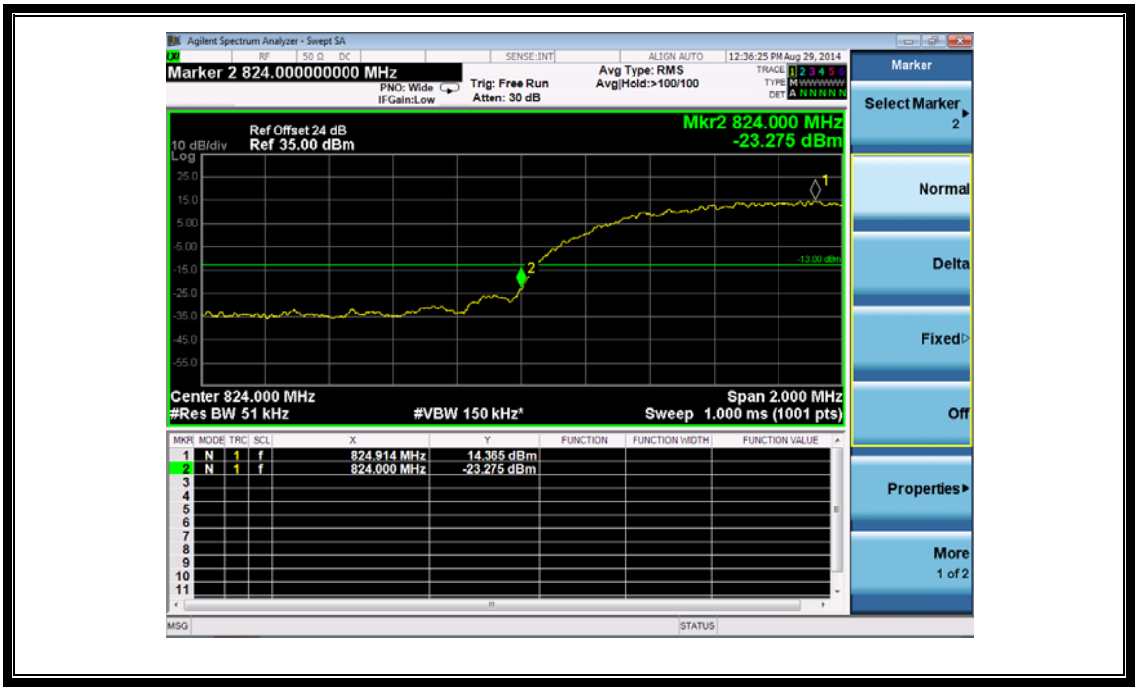
(Plot Q: HSUPA 850 Channel = 4132)

(Plot R: HSUPA850 Channel = 4233)



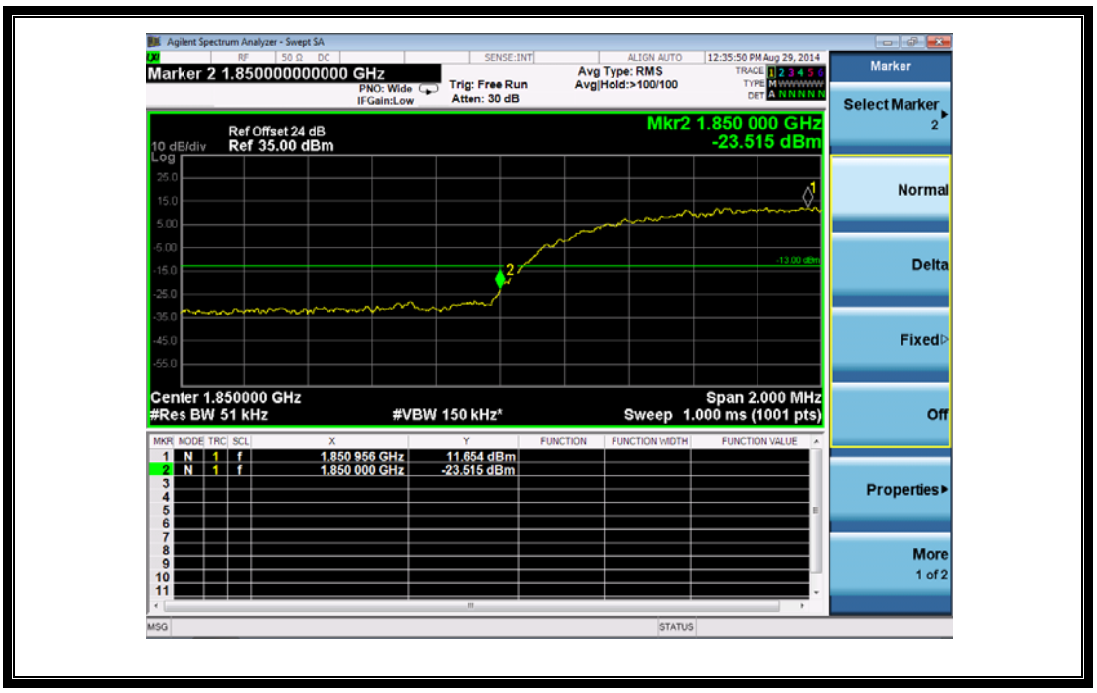
(Plot S: HSUPA 1900 Channel = 9262)

(Plot T: HSUPA 1900 Channel = 9538)



(Plot U: HSPA+ 850 Channel = 4132)

(Plot V: HSPA+ 850 Channel = 4233)



(Plot W: HSPA+ 1900 Channel = 9262)

(Plot X: HSPA+ 1900 Channel = 9538)

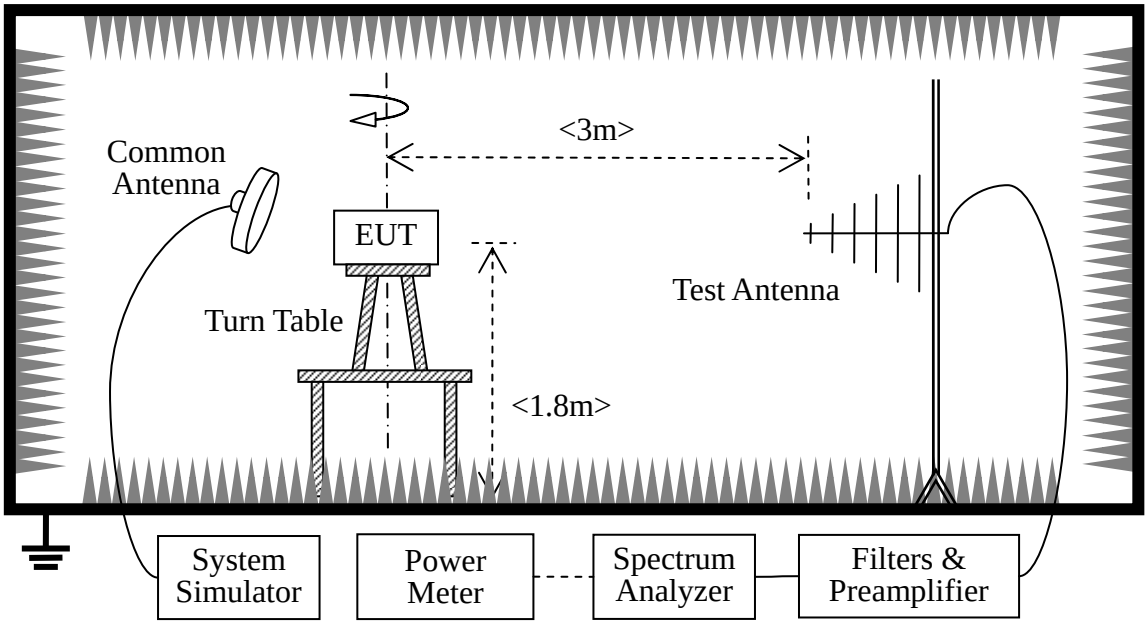
2.7 Transmitter Radiated Power (EIRP/ERP)

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 32.64dBm, GSM 1900 29.18dBm, EGPRS 850 32.20dBm，EGPRS 1900 28.79dBm,WCDMA 850 24.19dBm, WCDMA 1900 23.57dBm, 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 ,WCDMA 1900 0.5dBm.

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	2014.02.26	2015.02.25
Spectrum Analyzer	Agilent	E7405A	US44210471	2014.02.26	2015.02.25
Full-Anechoic Chamber	Albatross	9m*6m*6m	(n.a.)	2014.02.26	2015.02.25
Test Antenna - Bi-Log	Schwarzbeck	VULB 9163	9163-274	2014.02.26	2015.02.25
Test Antenna - Horn	Schwarzbeck	BBHA 9120C	9120C-384	2014.02.26	2015.02.25
Substitution Antenna	Schwarzbeck	BBHA 9120C	9120C-384	2014.02.26	2015.02.25
Pre-AMPs	lucix	S10M100L3802	S020180L3203	2014.02.26	2015.02.25
Notch Filter	COM-MW	ZBSF-C836.5-25-X	NA	2014.02.26	2015.02.25
Notch Filter	COM-MW	ZBSF-C1747.5-75-X2	NA	2014.02.26	2015.02.25
Notch Filter	COM-MW	ZBSF-C1880-60-X2	NA	2014.02.26	2015.02.25

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:

$A_{SUBST} = P_{SUBST\_TX} - P_{SUBST\_RX} - L_{SUBST\_CABLES} + G_{SUBST\_TX\_ANT}$

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

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

P_{SUBST_TX} is signal generator level,

P_{SUBST_RX} is receiver level,

L_{SUBST_CABLES} is cable losses including TX cable,

$G_{SUBST\_TX\_ANT}$ 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	31.5	1.413	Plot A	38.5	7	PASS
	190	836.60	5	31.1	1.288				PASS
	251	848.80	5	31.06	1.276				PASS
GPRS 850MHz	128	824.20	5	28.8	0.759	Plot B Note 1	38.5	7	PASS
	190	836.60	5	29.22	0.836				PASS
	251	848.80	5	29.16	0.824				PASS
EGPRS 850MHz	128	824.20	5	30.66	1.164	Plot C Note 1	38.5	7	PASS
	190	836.60	5	30.83	1.211				PASS
	251	848.80	5	31.22	1.324				PASS

Band	Channel	Frequency (MHz)	PCL	Measured EIRP			Limit		Verdict
				dBm	W	Refer to Plot	dBm	W	
GSM 1900MHz	512	1850.2	0	30.62	1.153	Plot D	33	2	PASS
	661	1880.0	0	30.43	1.104				PASS
	810	1909.8	0	30.59	1.146				PASS
GPRS 1900MHz	512	1850.2	0	27.69	0.587	Plot E Note 1	33	2	PASS
	661	1880.0	0	27.43	0.553				PASS
	810	1909.8	0	27.83	0.607				PASS
EGPRS 1900MHz	512	1850.2	0	29.36	0.863	Plot F Note 1	33	2	PASS
	661	1880.0	0	29.04	0.802				PASS
	810	1909.8	0	29.15	0.822				PASS

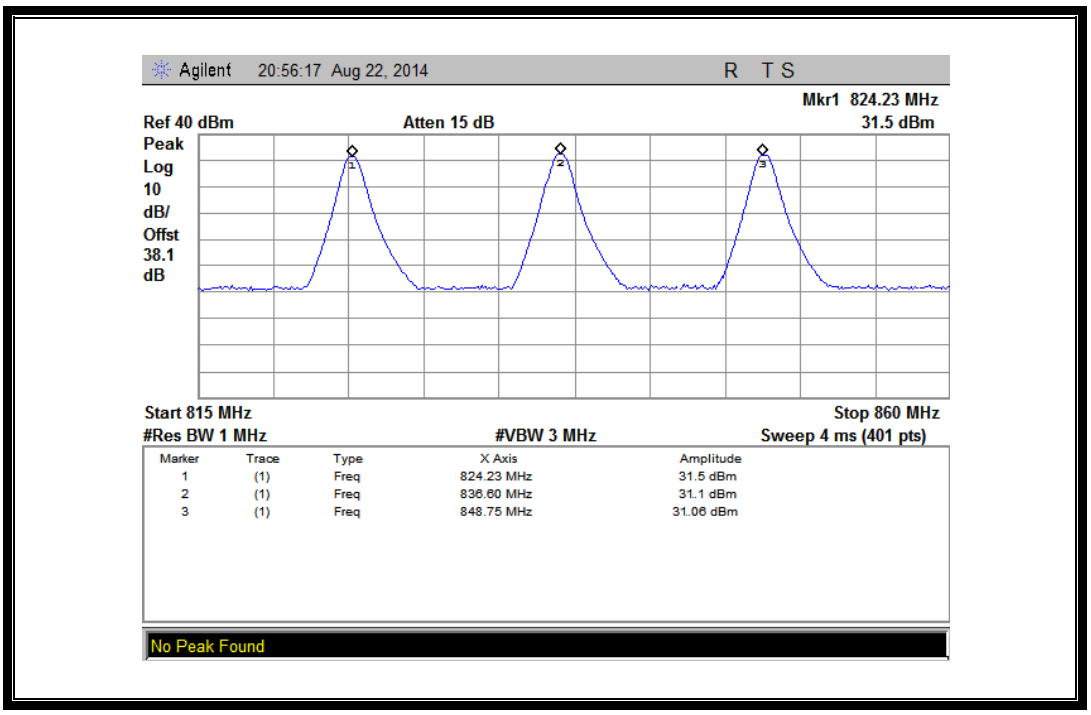
Note 1:	For the GPRS and EGPRS model, all the slots were tested and just the worst data was record in this report.

2. WCDMA Model Test Verdict:

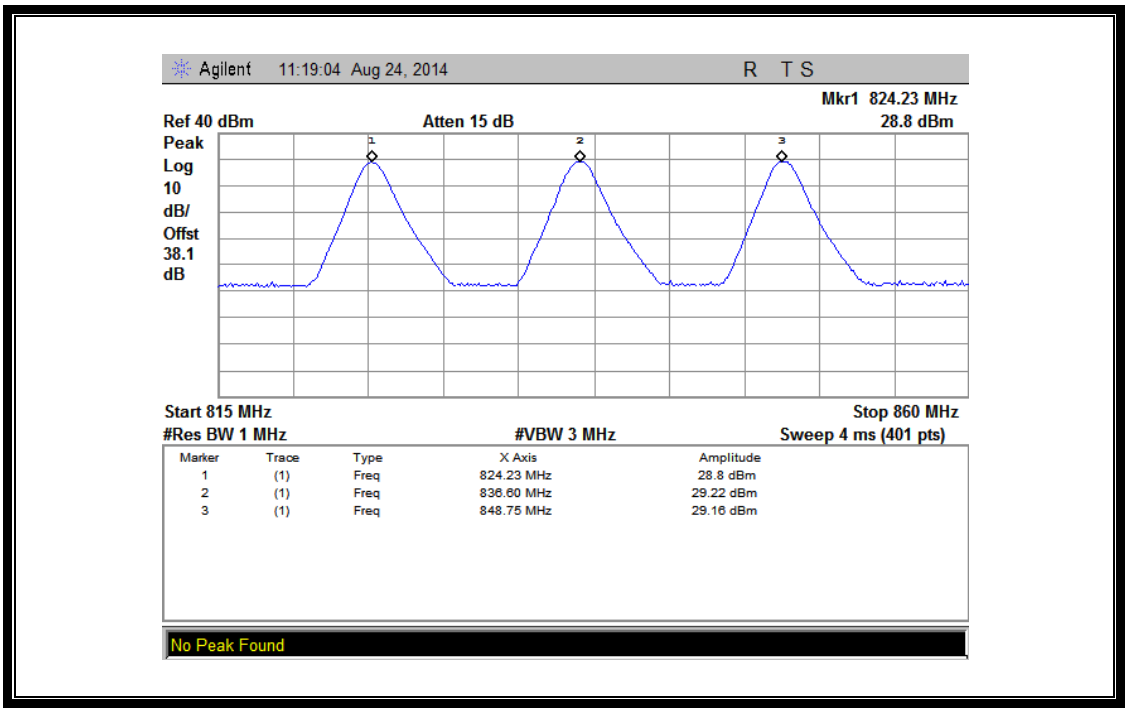
Band	Channel	Frequency (MHz)	Measured ERP			Limit		Verdict
			dBm	W	Refer to Plot	dBm	W	
WCDMA 850MHz	4132	826.4	26.38	0.435	Plot G	38.5	7	PASS
	4175	835	26.83	0.482				PASS
	4233	846.6	26.51	0.448				PASS
HSDPA 850MHz	4132	826.4	26.31	0.428	Plot H	38.5	7	PASS
	4175	835	27	0.501				PASS
	4233	846.6	26.35	0.432				PASS
HSUPA 850MHz	4132	826.4	26.29	0.426	Plot I	38.5	7	PASS
	4175	835	26.91	0.491				PASS
	4233	846.6	26.41	0.438				PASS
HSPA+ 850MHz	4132	826.4	26.28	0.425	Plot J	38.5	7	PASS
	4175	835	26.94	0.494				PASS
	4233	846.6	26.44	0.441				PASS

Band	Channel	Frequency (MHz)	Measured EIRP			Limit		Verdict
			dBm	W		dBm	W	
WCDMA 1900MHz	9262	1852.4	25.68	0.370	Plot K	33	2	PASS
	9400	1880	25.46	0.352				PASS
	9538	1907.6	25.42	0.348				PASS
HSDPA 1900MHz	9262	1852.4	25.92	0.391	Plot L	33	2	PASS
	9400	1880	25.45	0.351				PASS
	9538	1907.6	25.34	0.342				PASS
HSUPA 1900MHz	9262	1852.4	25.82	0.382	Plot M	33	2	PASS
	9400	1880	25.52	0.356				PASS
	9538	1907.6	25.36	0.344				PASS
HSPA+ 1900MHz	9262	1852.4	25.5	0.355	Plot N	33	2	PASS
	9400	1880	25.62	0.365				PASS
	9538	1907.6	25.42	0.348				PASS

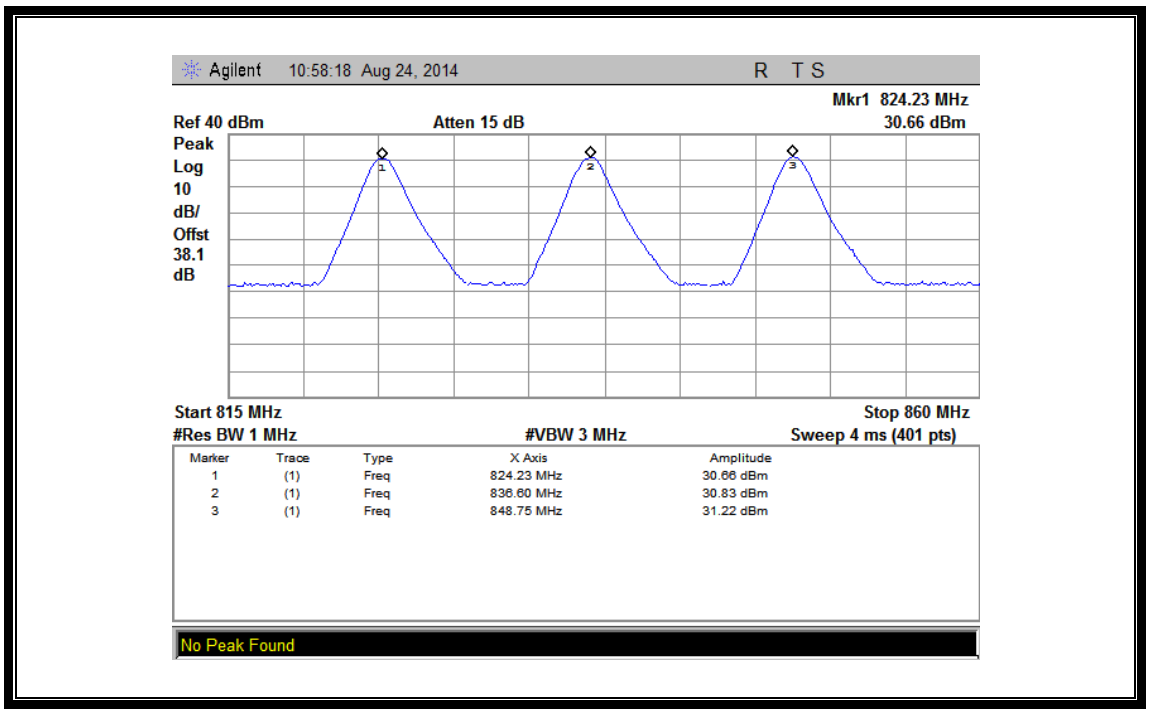
3. Test Plots:



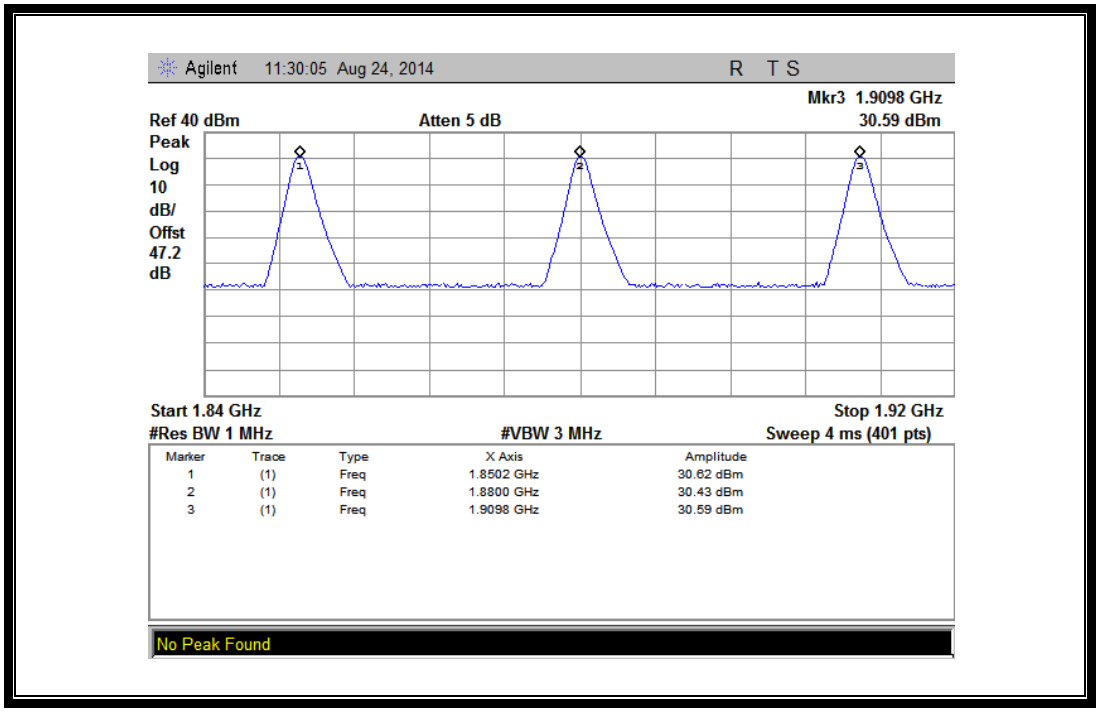
(Plot A: GSM 850MHz Channel = 128, 190, 251)



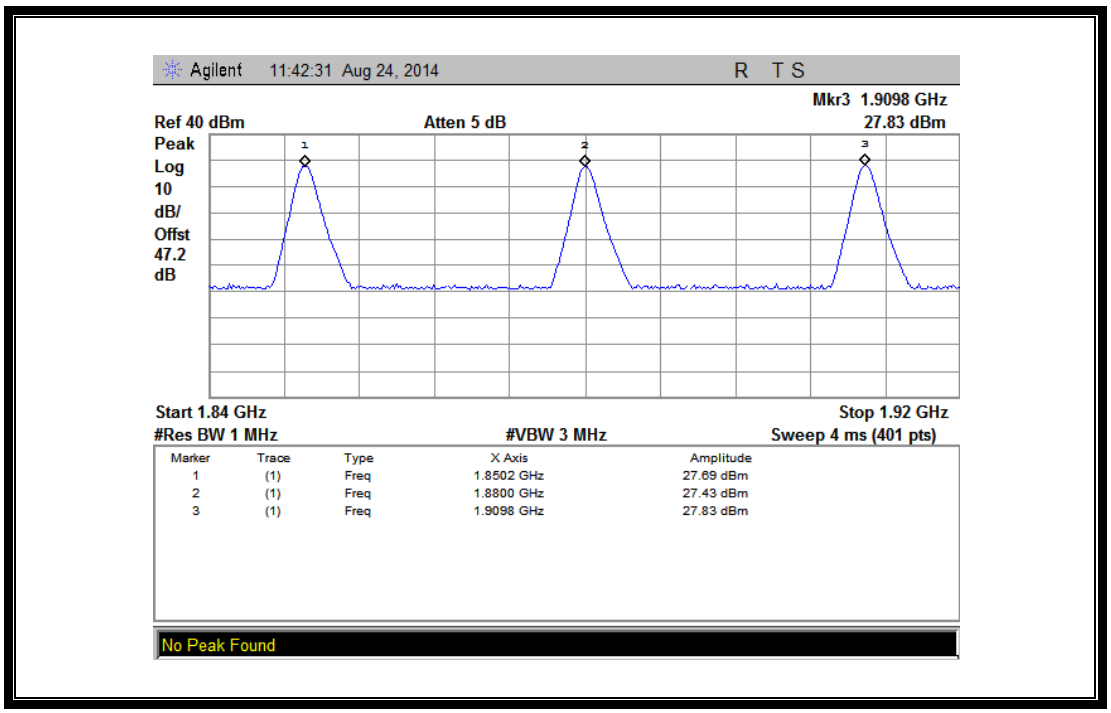
(Plot B: GPRS 850MHz Channel = 128, 190, 251)



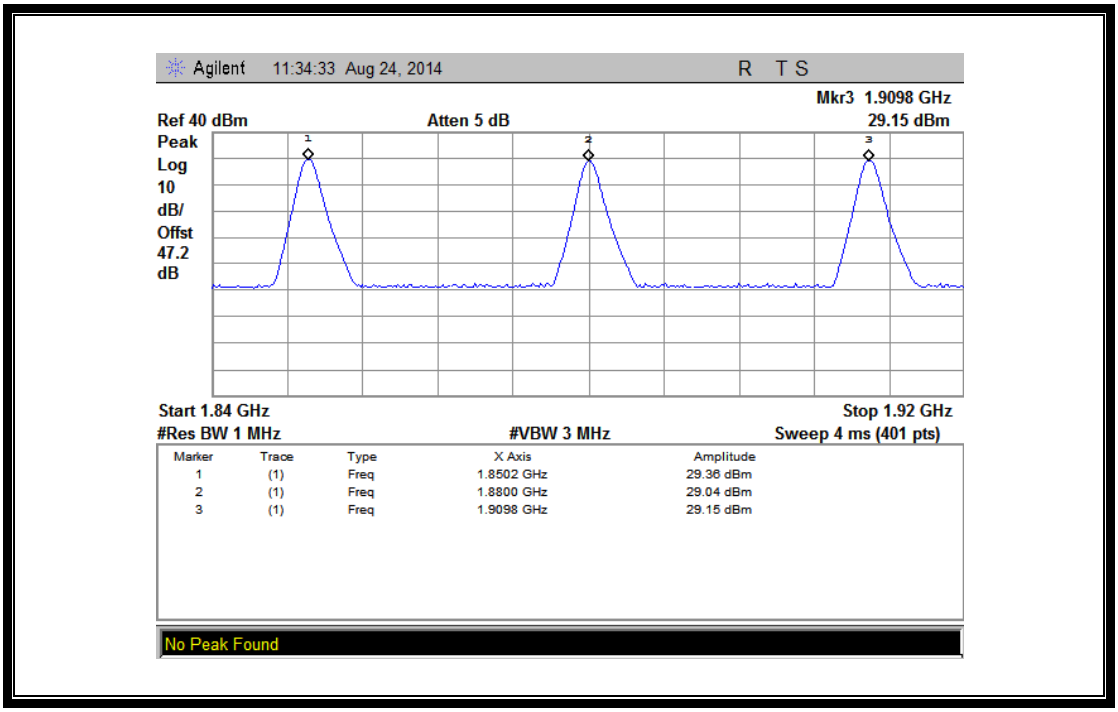
(Plot C: EGPRS 850MHz Channel = 128, 190, 251)



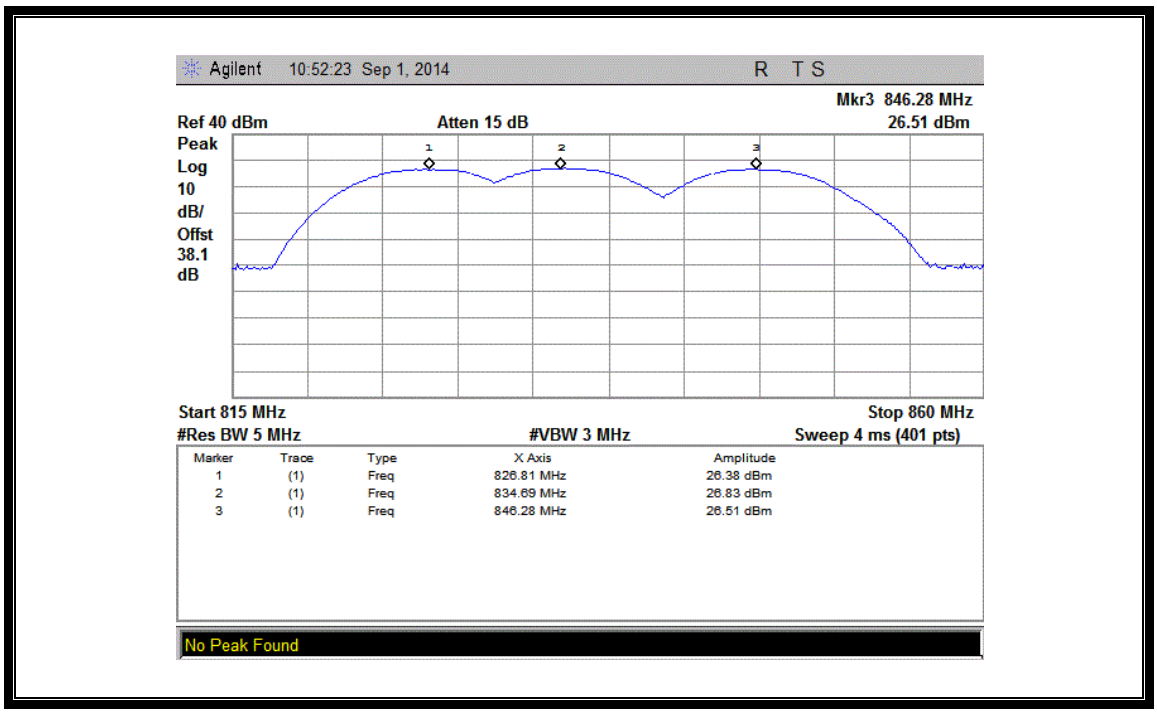
(Plot D: GSM 1900MHz Channel = 512, 661, 810)



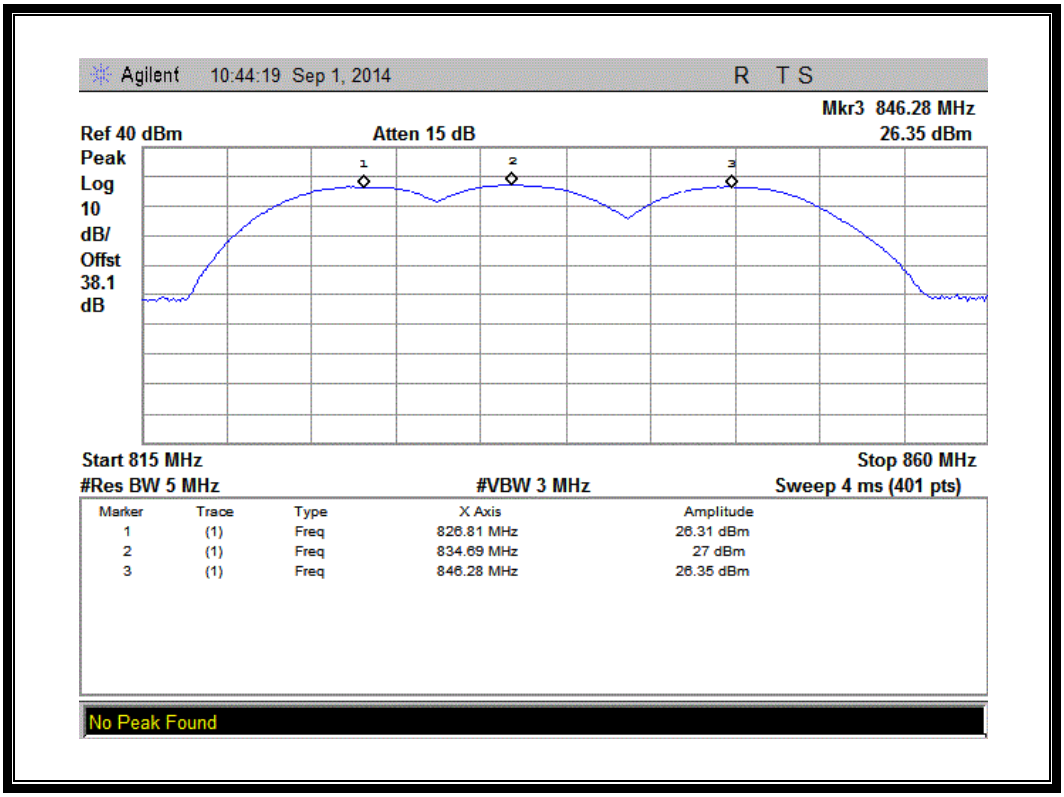
(Plot E: GPRS 1900MHz Channel = 512, 661, 810)



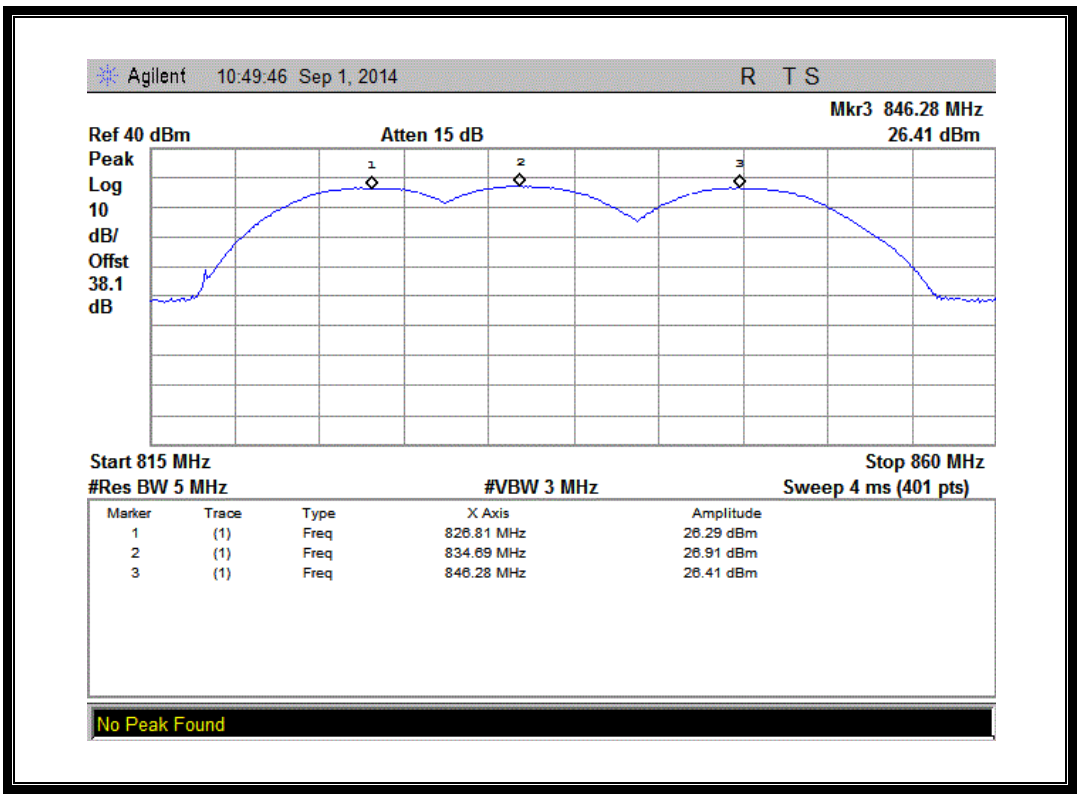
(Plot F: EGPRS 1900MHz Channel = 512, 661, 810)



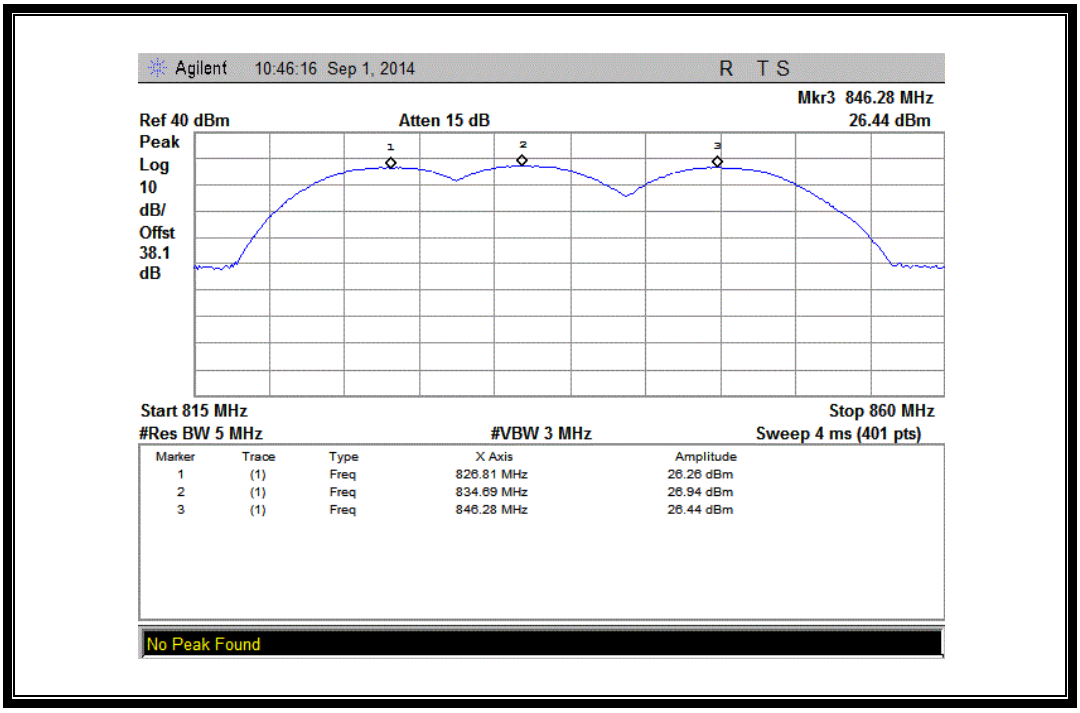
(Plot G: WCDMA 850 MHz Channel = 4132, 4175, 4233)



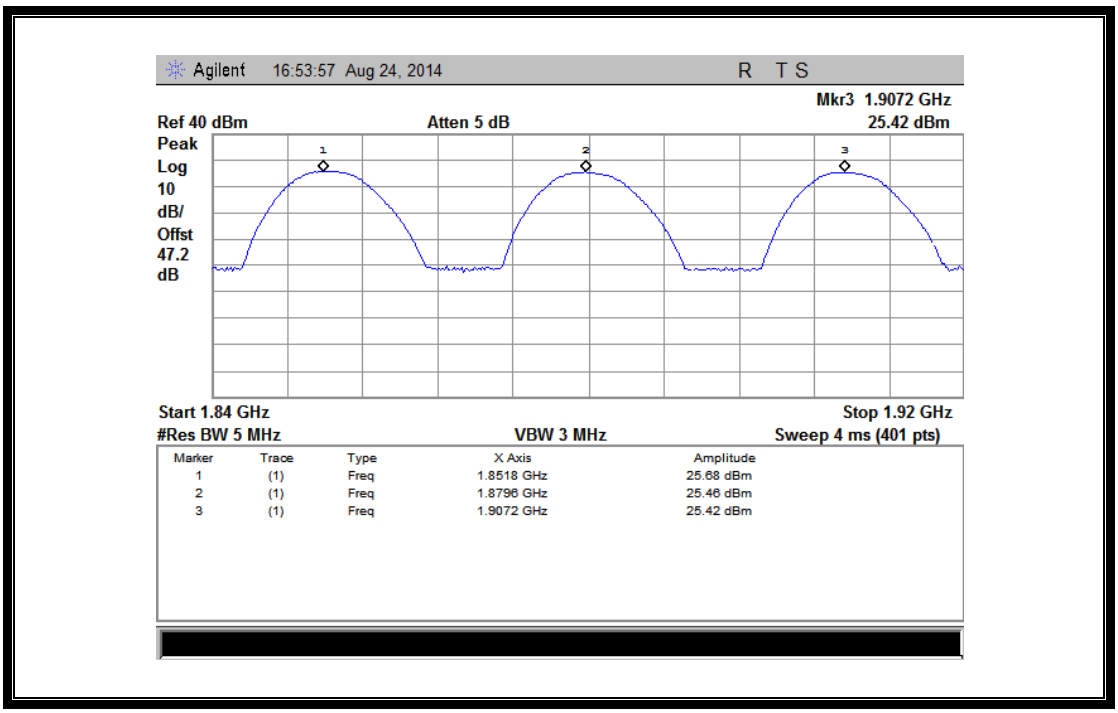
(Plot H: HSDPA 850 MHz Channel = 4132, 4175, 4233)



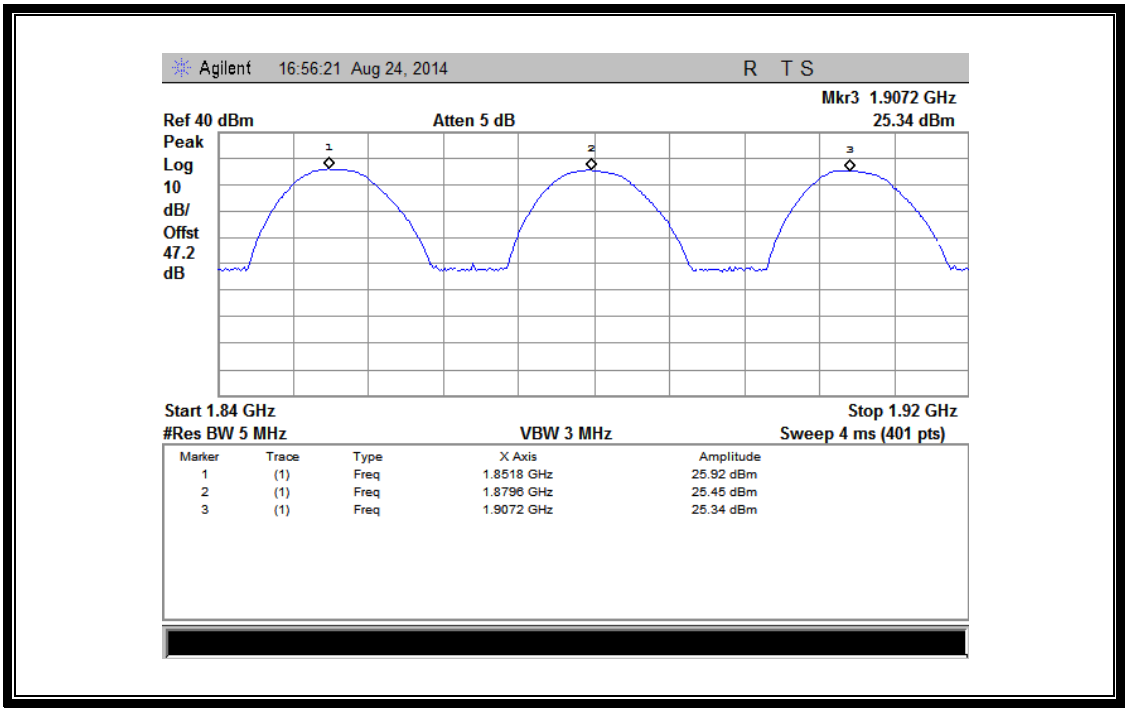
(Plot I: HSUPA 850 MHz Channel = 4132, 4175, 4233)



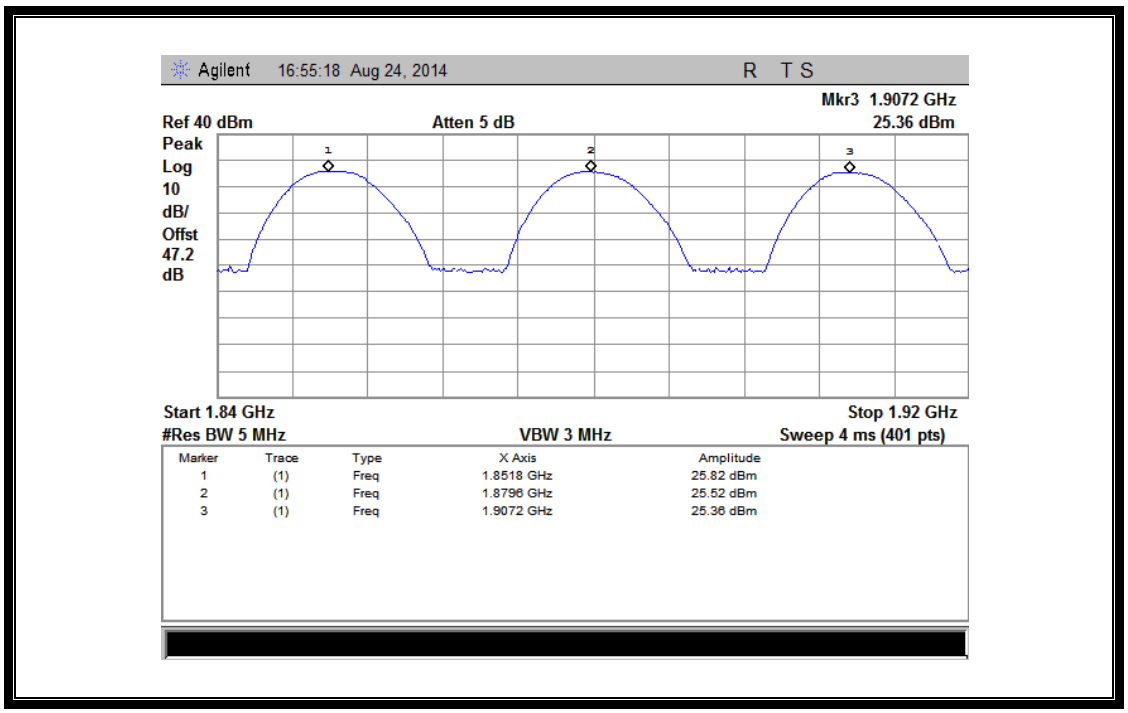
(Plot J: HSPA+ 850 MHz Channel = 4132, 4175, 4233)



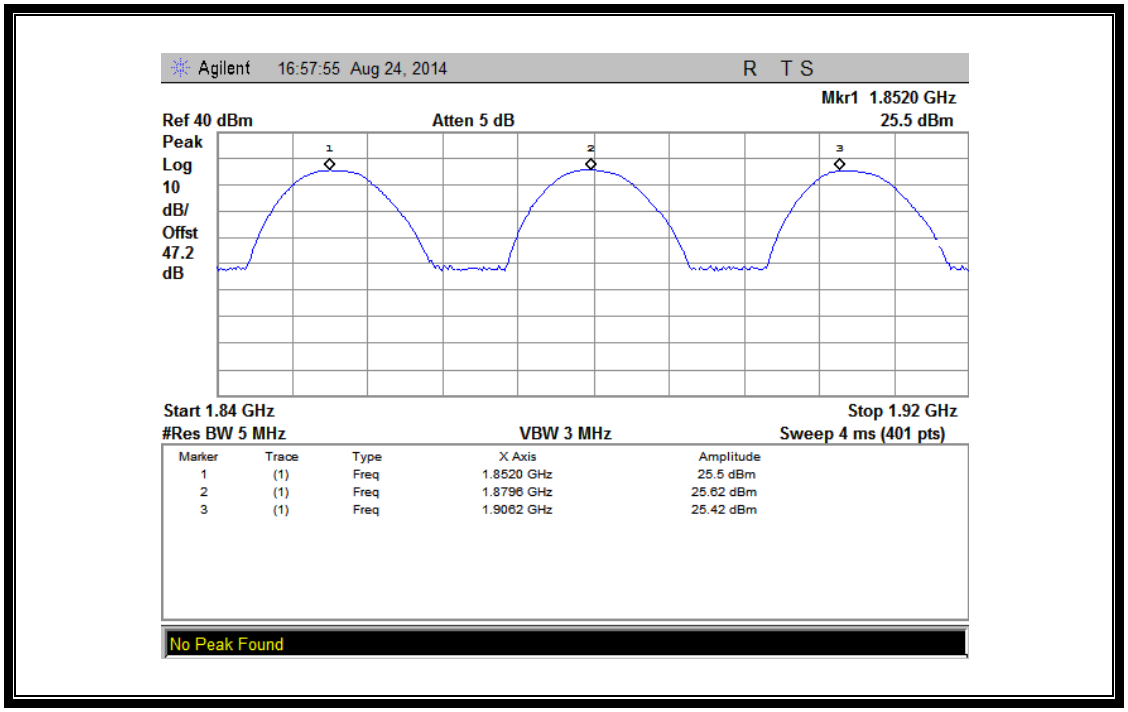
(Plot K: WCDMA 1900 MHz Channel = 9262, 9400, 9538)



(Plot L: HSDPA1900 MHz Channel = 9262, 9400, 9538)



(Plot M: HSUPA1900 MHz Channel = 9262, 9400, 9538)



(Plot N: HSPA+ 1900 MHz Channel = 9262, 9400, 9538)

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	2014.02.26	2015.02.25
Spectrum Analyzer	Agilent	E7405A	US44210471	2014.02.26	2015.02.25
Full-Anechoic Chamber	Albatross	9m*6m*6m	(n.a.)	2014.02.26	2015.02.25
Test Antenna - Bi-Log	Schwarzbeck	VULB 9163	9163-274	2014.02.26	2015.02.25
Test Antenna - Horn	Schwarzbeck	BBHA 9120C	9120C-384	2014.02.26	2015.02.25
Substitution Antenna	Schwarzbeck	BBHA 9120C	9120C-384	2014.02.26	2015.02.25
Pre-AMPs	lucix	S10M100L3802	S020180L3203	2014.02.26	2015.02.25
Notch Filter	COM-MW	ZBSF-C836.5-25-X	NA	2014.02.26	2015.02.25
Notch Filter	COM-MW	ZBSF-C1747.5-75-X2	NA	2014.02.26	2015.02.25
Notch Filter	COM-MW	ZBSF-C1880-60-X2	NA	2014.02.26	2015.02.25

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:

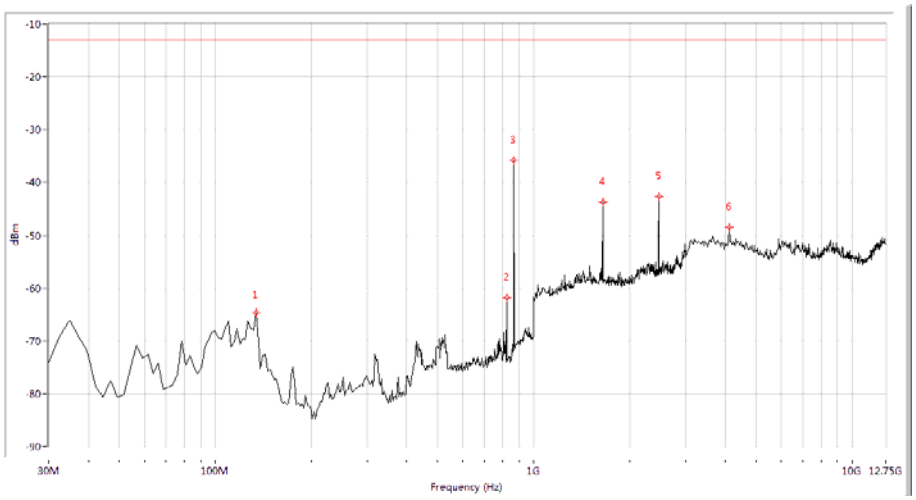
Band	Channel	Frequency (MHz)	Measured Max. Spurious Emission (dBm)		Refer to Plot	Limit (dBm)	Verdict
			Test Antenna Horizontal	Test Antenna Vertical			
GSM 850MHz	128	824.2	< -25	< -25	Plot A.1/A.2	-13	PASS
	190	836.6	< -25	< -25	Plot A.3/A.4		PASS
	251	848.8	< -25	< -25	Plot A.5/A.6		PASS
GSM 1900MHz	512	1850.2	< -25	< -25	Plot B.1/B.2	-13	PASS
	661	1880.0	< -25	< -25	Plot B.3/B.4		PASS
	810	1909.8	< -25	< -25	Plot B.5/B.6		PASS
EDGE 850MHz	128	824.2	< -25	< -25	Plot C.1/C.2	-13	PASS
	190	836.6	< -25	< -25	Plot C.3/C.4		PASS
	251	848.8	< -25	< -25	Plot C.5/C.6		PASS
EDGE 1900MHz	512	1850.2	< -25	< -25	Plot D.1/D.2	-13	PASS
	661	1880.0	< -25	< -25	Plot D.3/D.4		PASS
	810	1909.8	< -25	< -25	Plot D.5/D.6		PASS
WCDMA 850MHz	4132	826.4	< -25	< -25	Plot E.1/E.2	-13	PASS
	4175	835	< -25	< -25	Plot E.3/E.4		PASS
	4233	846.6	< -25	< -25	Plot E.5/E.6		PASS
WCDMA 1900MHz	9262	1852.4	< -25	< -25	Plot F.1/F.2	-13	PASS
	9400	1880	< -25	< -25	Plot F.3/F.4		PASS
	9538	1907.6	< -25	< -25	Plot F.5/F.6		PASS
HSDPA 850MHz	4132	826.4	< -25	< -25	Plot G.1/G.2	-13	PASS
	4175	835	< -25	< -25	Plot G.3/G.4		PASS
	4233	846.6	< -25	< -25	Plot G.5/G.6		PASS
HSDPA 1900MHz	9262	1852.4	< -25	< -25	Plot H.1/H.2	-13	PASS
	9400	1880	< -25	< -25	Plot H.3/H.4		PASS
	9538	1907.6	< -25	< -25	Plot H.5/H.6		PASS
HSUPA 850MHz	4132	826.4	< -25	< -25	Plot I.1/I.2	-13	PASS
	4175	835	< -25	< -25	Plot I.3/I.4		PASS
	4233	846.6	< -25	< -25	Plot I.5/I.6		PASS
HSUPA 1900MHz	9262	1852.4	< -25	< -25	Plot J.1/J.2	-13	PASS
	9400	1880	< -25	< -25	Plot J.3/J.4		PASS
	9538	1907.6	< -25	< -25	Plot J.5/J.6		PASS
HSPA+ 850MHz	4132	826.4	< -25	< -25	Plot K.1/K.2	-13	PASS
	4175	835	< -25	< -25	Plot K.3/K.4		PASS
	4233	846.6	< -25	< -25	Plot K.5/K.6		PASS
HSPA+ 1900MHz	9262	1852.4	< -25	< -25	Plot L.1/L.2	-13	PASS
	9400	1880	< -25	< -25	Plot L.3/L.4		PASS

Band	Channel	Frequency (MHz)	Measured Max. Spurious Emission (dBm)		Refer to Plot	Limit (dBm)	Verdict
			Test Antenna Horizontal	Test Antenna Vertical			
	9538	1907.6	< -25	< -25	Plot L.5/L.6		PASS

2. Test Plots for the Whole Measurement Frequency Range:

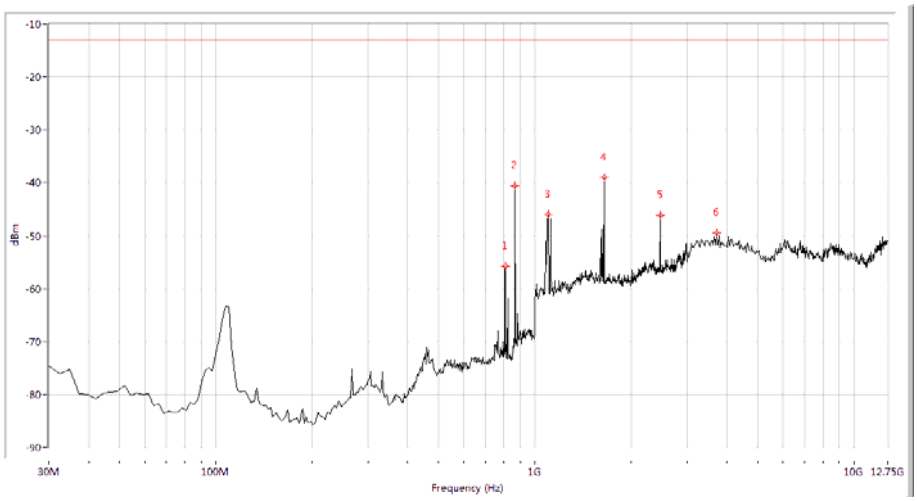
Note1: the power of the EUT transmitting frequency should be ignored.

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.



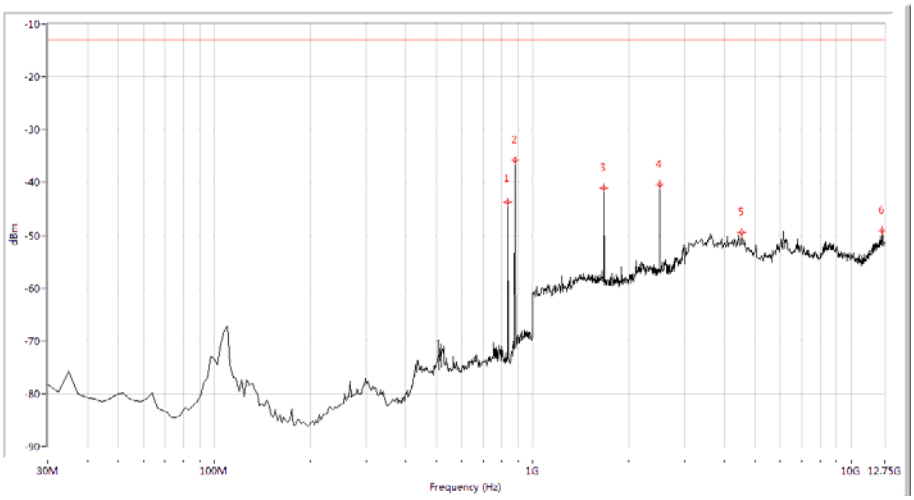
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
134.015	-64.60	-13.0	51.6	348.7	Horizontal	PASS
823.416	-61.88	-13.0	48.9	124.0	Horizontal	PASS
866.958	-35.83	-13.0	22.8	150.0	Horizontal	PASS
1648.379	-43.80	-13.0	30.8	360.0	Horizontal	PASS
2471.322	-42.68	-13.0	29.7	343.5	Horizontal	PASS
4118.454	-48.55	-13.0	35.5	360.0	Horizontal	PASS

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



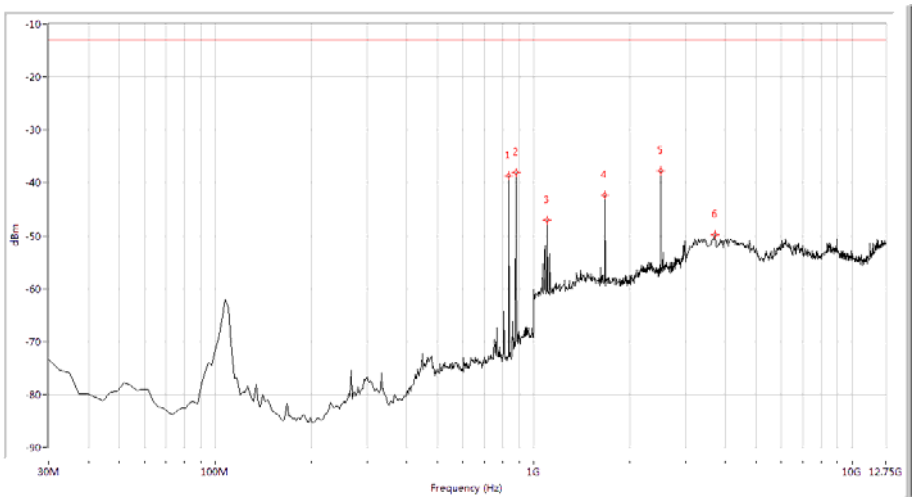
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
808.903	-55.78	-13.0	42.8	16.8	Vertical	PASS
866.958	-40.61	-13.0	27.6	101.3	Vertical	PASS
1104.738	-45.97	-13.0	33.0	54.0	Vertical	PASS
1648.379	-39.00	-13.0	26.0	279.9	Vertical	PASS
2471.322	-46.13	-13.0	33.1	162.6	Vertical	PASS
3705.112	-49.52	-13.0	36.5	46.6	Vertical	PASS

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



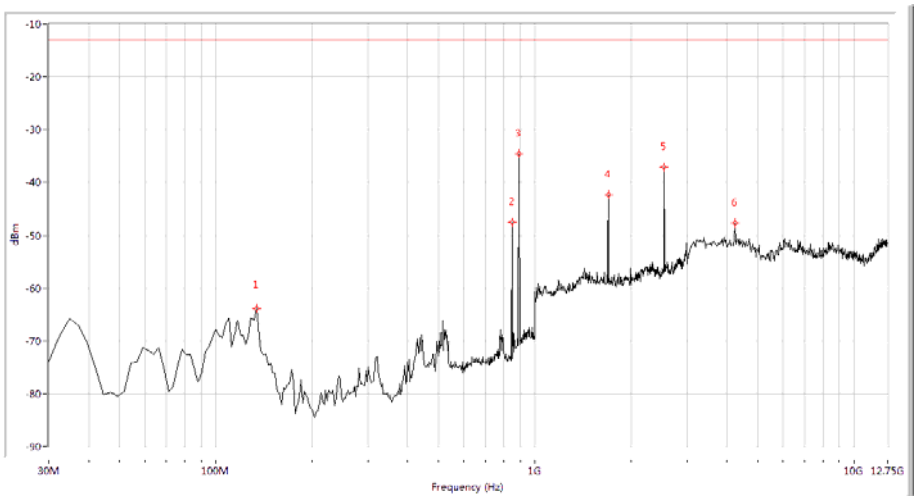
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
835.511	-43.73	-13.0	30.7	119.5	Horizontal	PASS
879.052	-35.82	-13.0	22.8	305.5	Horizontal	PASS
1673.317	-41.11	-13.0	28.1	211.4	Horizontal	PASS
2506.234	-40.38	-13.0	27.4	0.1	Horizontal	PASS
4531.796	-49.42	-13.0	36.4	160.1	Horizontal	PASS
12531.172	-49.11	-13.0	36.1	100.6	Horizontal	PASS

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



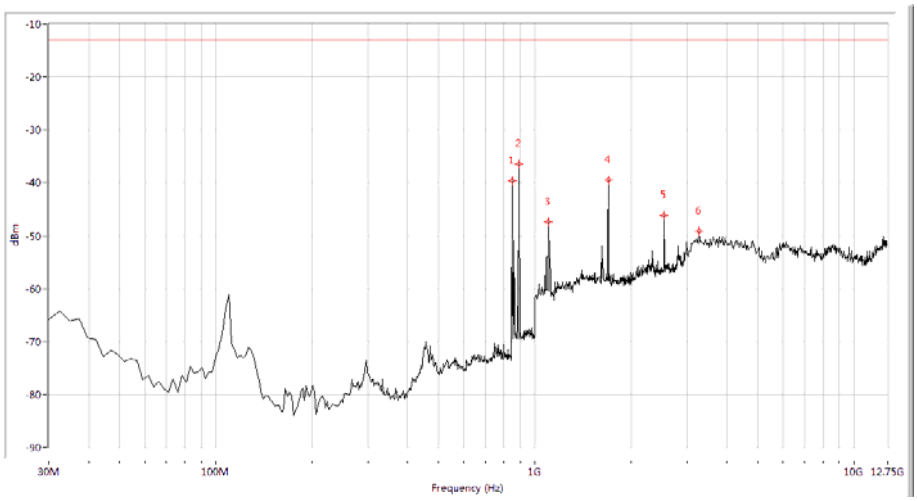
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
835.511	-38.70	-13.0	25.7	22.7	Vertical	PASS
879.052	-38.00	-13.0	25.0	53.9	Vertical	PASS
1104.738	-47.03	-13.0	34.0	54.0	Vertical	PASS
1673.317	-42.32	-13.0	29.3	-0.0	Vertical	PASS
2506.234	-37.67	-13.0	24.7	26.5	Vertical	PASS
3705.112	-49.71	-13.0	36.7	141.8	Vertical	PASS

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



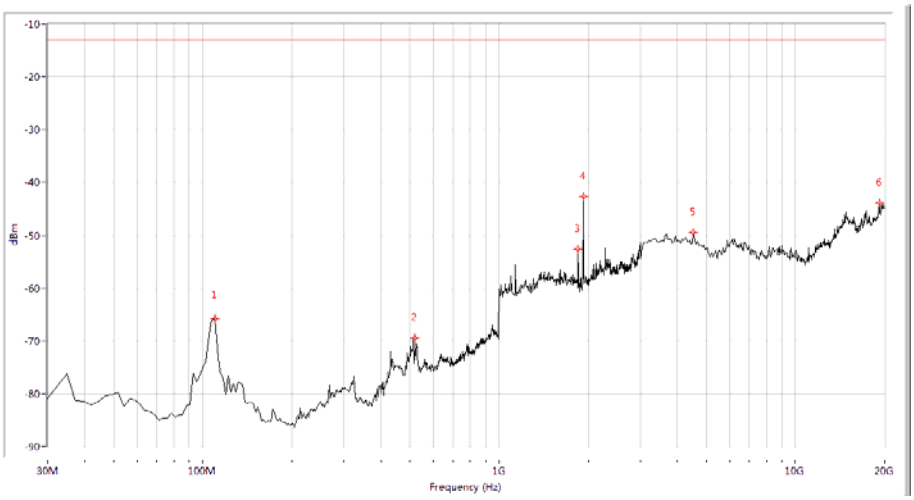
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
134.015	-63.92	-13.0	50.9	192.0	Horizontal	PASS
847.606	-47.57	-13.0	34.6	339.4	Horizontal	PASS
891.147	-34.61	-13.0	21.6	308.2	Horizontal	PASS
1698.254	-42.29	-13.0	29.3	237.4	Horizontal	PASS
2541.147	-37.13	-13.0	24.1	355.8	Horizontal	PASS
4240.025	-47.68	-13.0	34.7	175.3	Horizontal	PASS

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



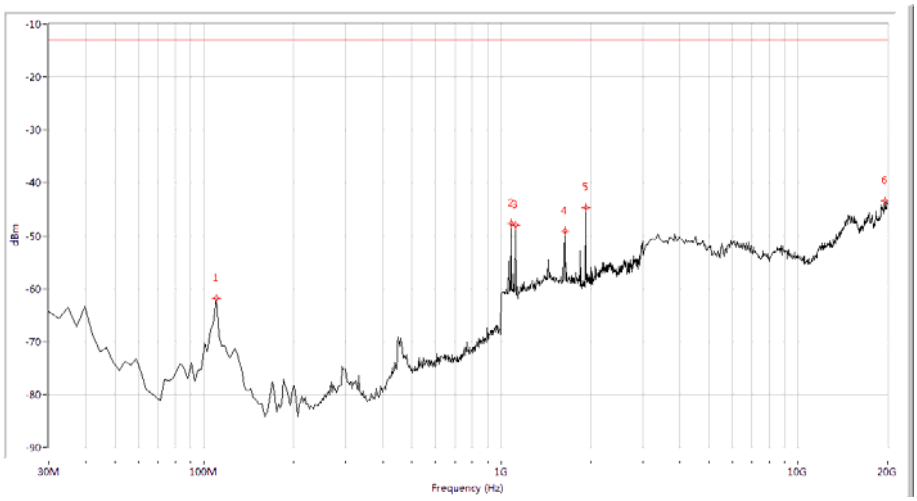
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
847.606	-39.70	-13.0	26.7	215.5	Vertical	PASS
891.147	-36.52	-13.0	23.5	52.5	Vertical	PASS
1099.751	-47.35	-13.0	34.3	360.0	Vertical	PASS
1698.254	-39.41	-13.0	26.4	271.8	Vertical	PASS
2541.147	-46.17	-13.0	33.2	222.2	Vertical	PASS
3267.456	-49.17	-13.0	36.2	359.4	Vertical	PASS

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



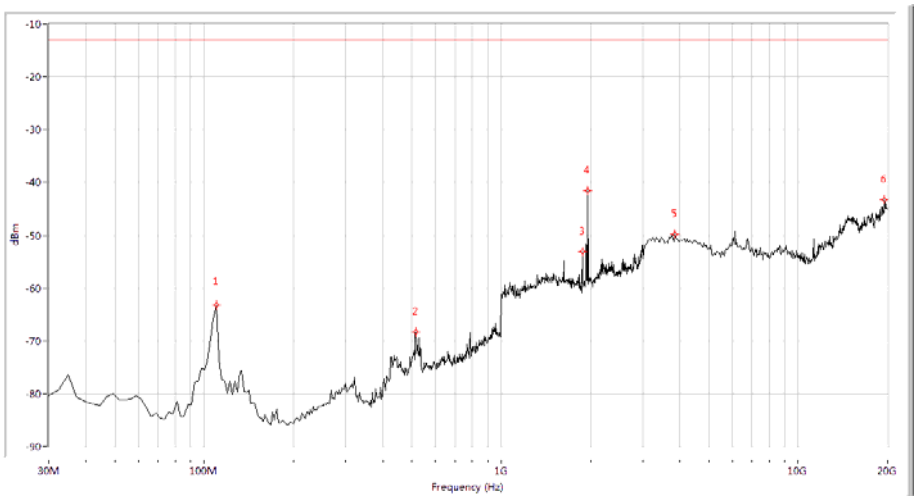
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-65.82	-13.0	52.8	0.7	Horizontal	PASS
518.628	-69.44	-13.0	56.4	211.7	Horizontal	PASS
1847.880	-52.54	-13.0	39.5	7.7	Horizontal	PASS
1927.681	-42.68	-13.0	29.7	303.2	Horizontal	PASS
4526.185	-49.46	-13.0	36.5	-0.0	Horizontal	PASS
19194.514	-43.86	-13.0	30.9	150.4	Horizontal	PASS

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



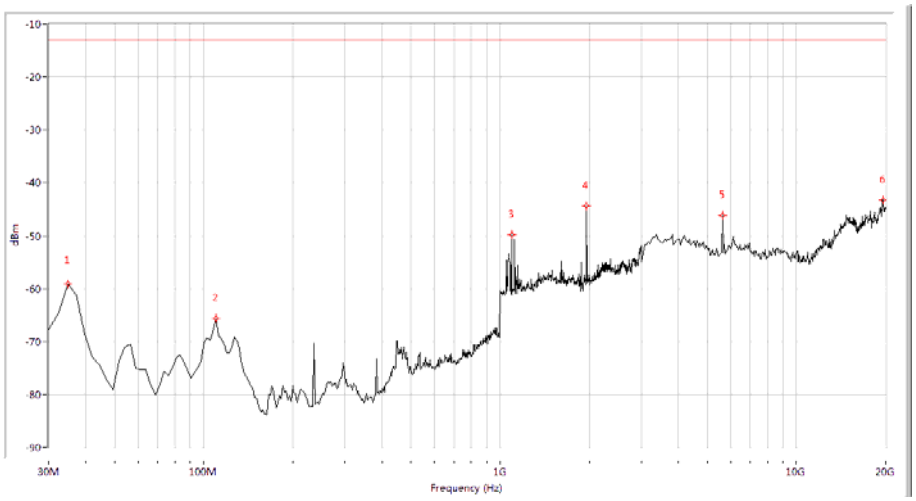
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-61.79	-13.0	48.8	216.3	Vertical	PASS
1079.800	-47.72	-13.0	34.7	309.3	Vertical	PASS
1114.713	-48.08	-13.0	35.1	359.1	Vertical	PASS
1638.404	-49.08	-13.0	36.1	360.0	Vertical	PASS
1927.681	-44.66	-13.0	31.7	0.4	Vertical	PASS
19576.060	-43.37	-13.0	30.4	100.9	Vertical	PASS

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



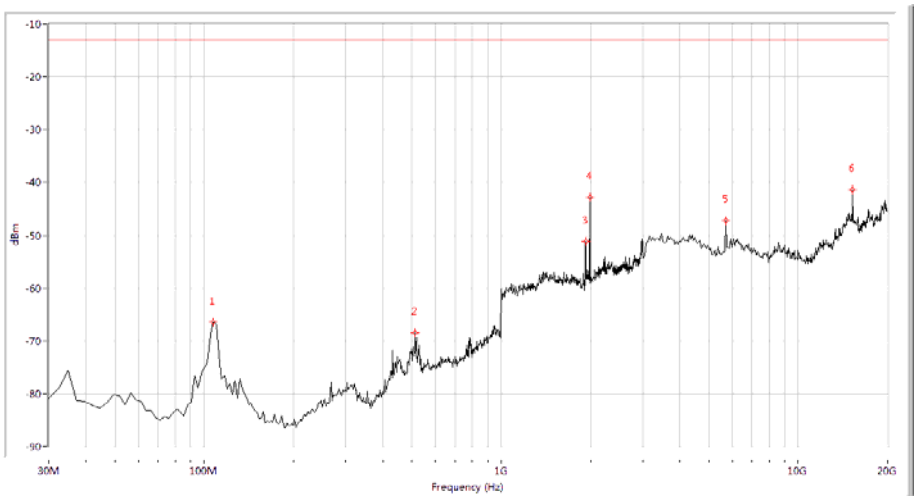
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-63.17	-13.0	50.2	87.8	Horizontal	PASS
516.209	-68.34	-13.0	55.3	169.0	Horizontal	PASS
1877.805	-53.15	-13.0	40.1	21.7	Horizontal	PASS
1957.606	-41.53	-13.0	28.5	42.9	Horizontal	PASS
3847.880	-49.82	-13.0	36.8	291.0	Horizontal	PASS
19533.666	-43.25	-13.0	30.3	147.4	Horizontal	PASS

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



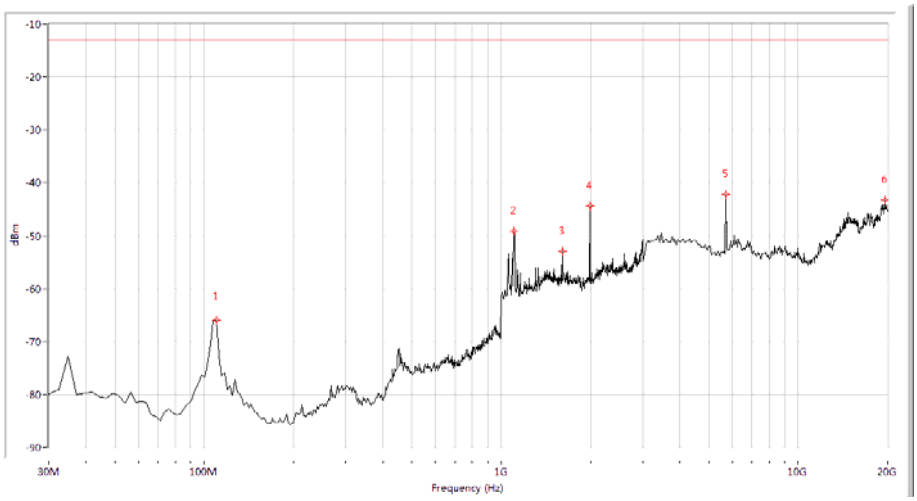
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-59.04	-13.0	46.0	-0.0	Vertical	PASS
109.825	-65.56	-13.0	52.6	357.1	Vertical	PASS
1094.763	-49.74	-13.0	36.7	-0.0	Vertical	PASS
1957.606	-44.45	-13.0	31.5	45.4	Vertical	PASS
5628.429	-46.20	-13.0	33.2	87.1	Vertical	PASS
19618.454	-43.30	-13.0	30.3	275.4	Vertical	PASS

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



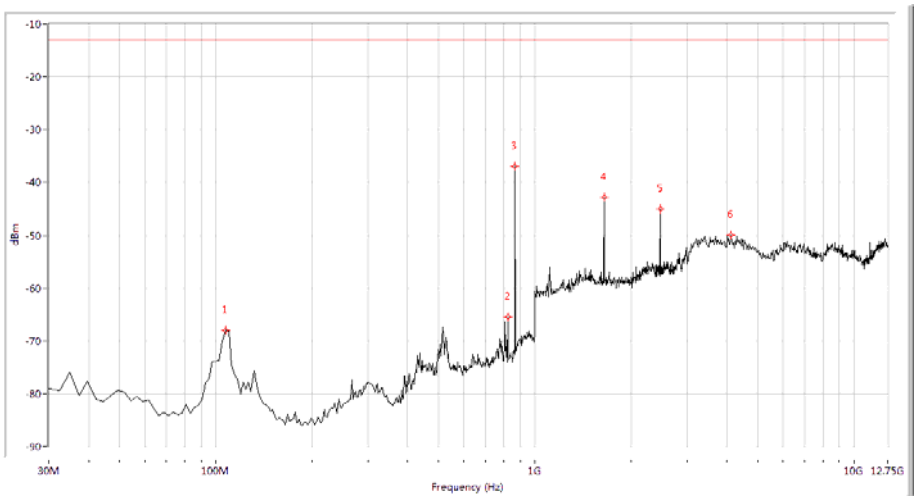
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
107.406	-66.42	-13.0	53.4	355.3	Horizontal	PASS
513.791	-68.48	-13.0	55.5	357.4	Horizontal	PASS
1927.681	-51.18	-13.0	38.2	221.1	Horizontal	PASS
1987.531	-42.75	-13.0	29.8	192.8	Horizontal	PASS
5713.217	-47.25	-13.0	34.2	240.0	Horizontal	PASS
15251.870	-41.37	-13.0	28.4	138.1	Horizontal	PASS

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



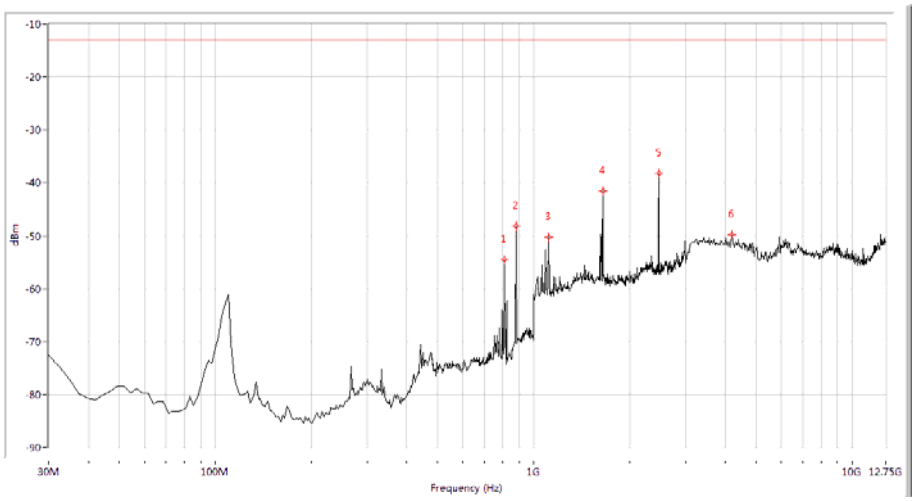
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-65.99	-13.0	53.0	88.6	Vertical	PASS
1104.738	-49.11	-13.0	36.1	360.0	Vertical	PASS
1603.491	-52.95	-13.0	40.0	355.5	Vertical	PASS
1987.531	-44.33	-13.0	31.3	154.1	Vertical	PASS
5713.217	-42.19	-13.0	29.2	92.4	Vertical	PASS
19576.060	-43.29	-13.0	30.3	203.2	Vertical	PASS

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



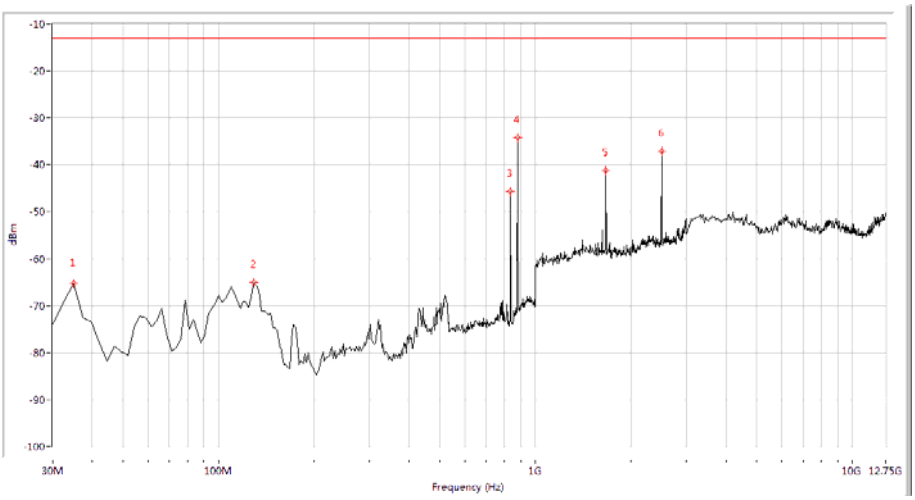
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
107.406	-68.00	-13.0	55.0	42.4	Horizontal	PASS
823.416	-65.40	-13.0	52.4	118.3	Horizontal	PASS
866.958	-36.89	-13.0	23.9	85.9	Horizontal	PASS
1648.379	-42.82	-13.0	29.8	357.4	Horizontal	PASS
2471.322	-45.01	-13.0	32.0	190.2	Horizontal	PASS
4118.454	-49.99	-13.0	37.0	-0.0	Horizontal	PASS

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



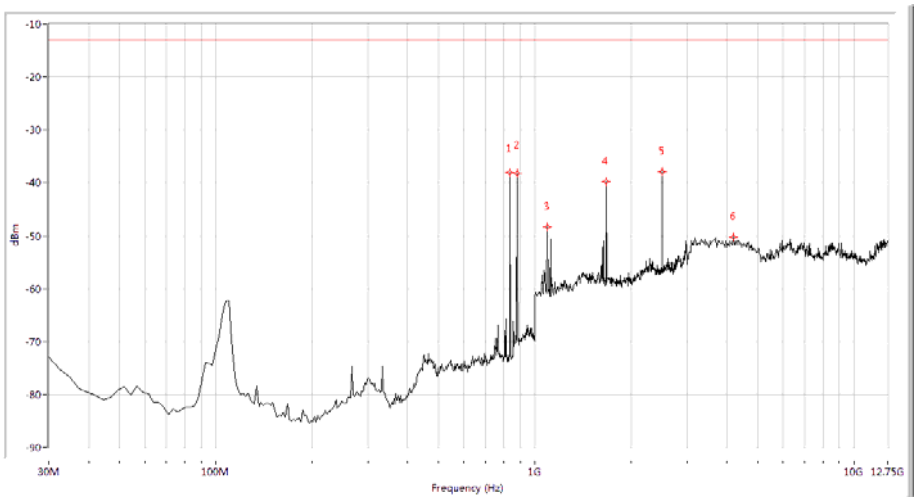
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
811.322	-54.55	-13.0	41.6	166.0	Vertical	PASS
869.052	-48.19	-13.0	35.2	95.7	Vertical	PASS
1114.713	-50.18	-13.0	37.2	128.1	Vertical	PASS
1648.379	-41.57	-13.0	28.6	295.5	Vertical	PASS
2471.322	-38.23	-13.0	25.2	360.0	Vertical	PASS
4191.397	-49.84	-13.0	36.8	38.0	Vertical	PASS

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



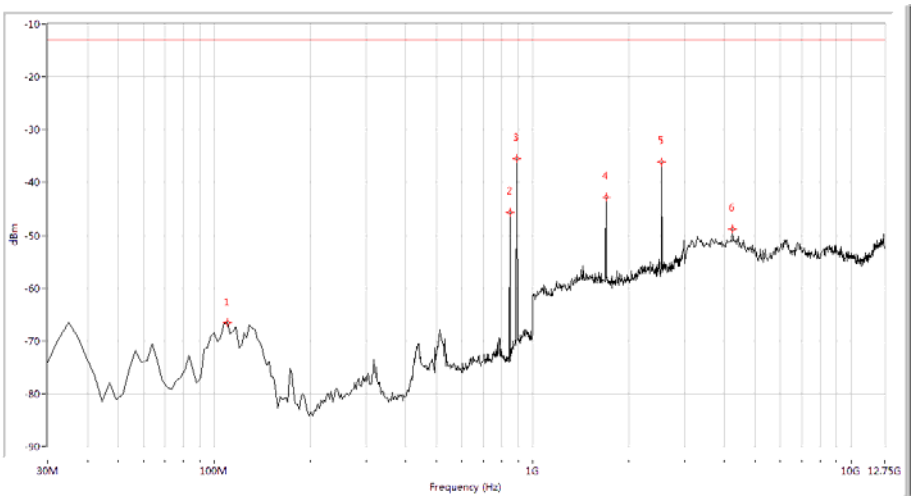
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-65.33	-13.0	52.3	345.4	Horizontal	PASS
129.177	-65.11	-13.0	52.1	48.0	Horizontal	PASS
835.511	-45.59	-13.0	32.6	152.6	Horizontal	N.A
879.052	-34.24	-13.0	21.2	303.3	Horizontal	N.A
1673.317	-41.10	-13.0	28.1	8.8	Horizontal	PASS
2506.234	-37.18	-13.0	24.2	346.1	Horizontal	PASS

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



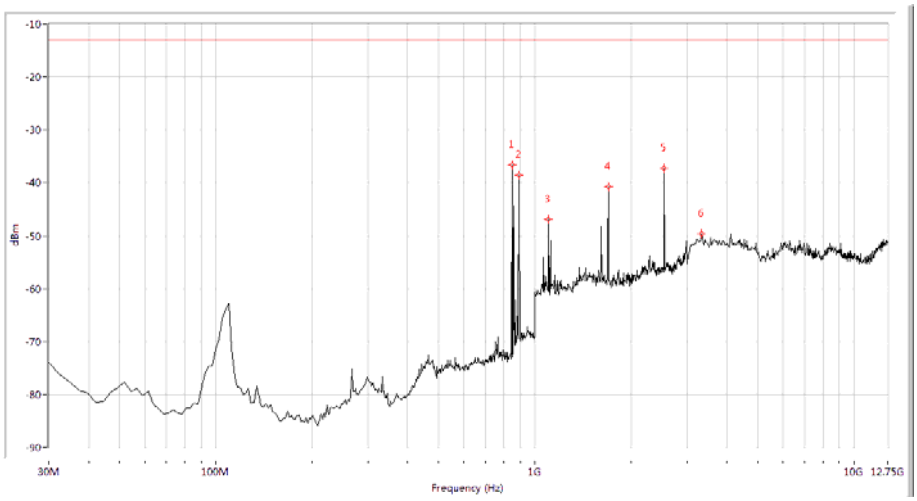
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
835.511	-38.00	-13.0	25.0	6.6	Vertical	PASS
879.052	-38.23	-13.0	25.2	58.5	Vertical	PASS
1094.763	-48.35	-13.0	35.4	345.0	Vertical	PASS
1673.317	-39.71	-13.0	26.7	270.6	Vertical	PASS
2506.234	-37.84	-13.0	24.8	4.6	Vertical	PASS
4191.397	-50.26	-13.0	37.3	323.7	Vertical	PASS

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



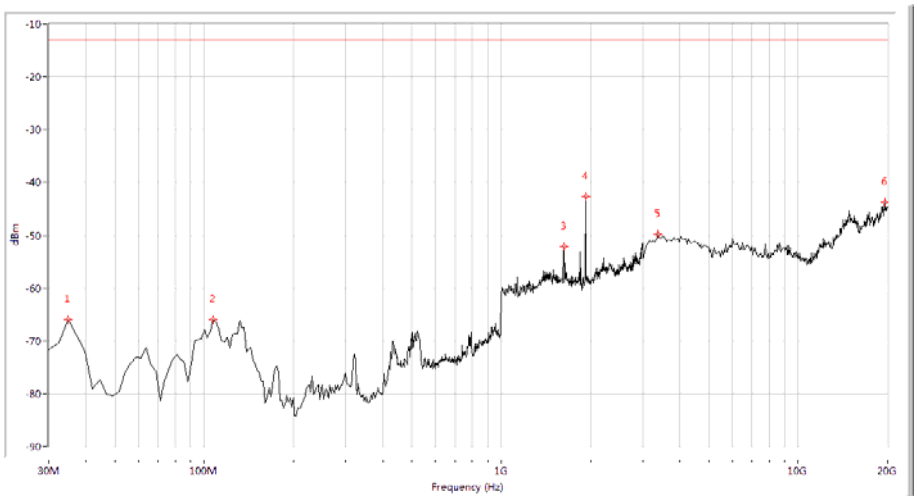
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-66.59	-13.0	53.6	111.7	Horizontal	PASS
847.606	-45.61	-13.0	32.6	132.9	Horizontal	PASS
891.147	-35.56	-13.0	22.6	127.3	Horizontal	PASS
1698.254	-42.73	-13.0	29.7	358.1	Horizontal	PASS
2541.147	-36.17	-13.0	23.2	354.1	Horizontal	PASS
4240.025	-48.79	-13.0	35.8	174.1	Horizontal	PASS

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



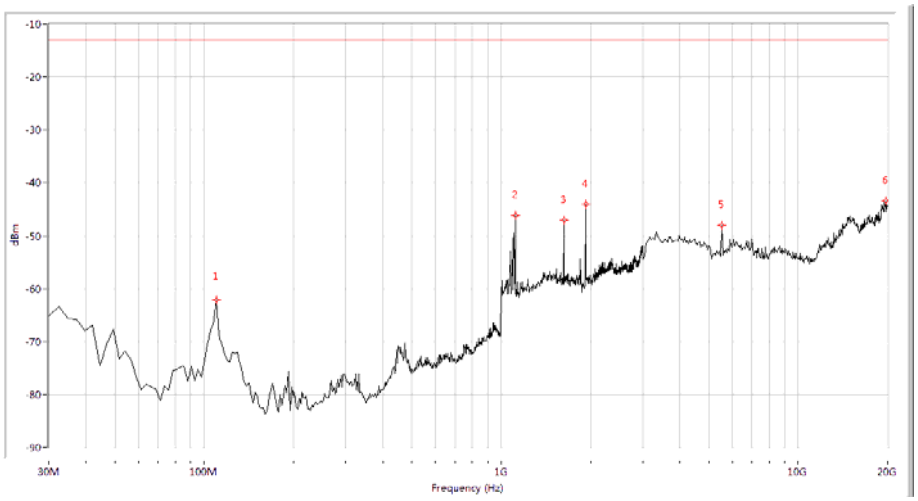
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
847.606	-36.61	-13.0	23.6	203.9	Vertical	PASS
891.147	-38.59	-13.0	25.6	255.7	Vertical	PASS
1104.738	-46.87	-13.0	33.9	180.2	Vertical	PASS
1698.254	-40.67	-13.0	27.7	194.0	Vertical	PASS
2541.147	-37.22	-13.0	24.2	283.3	Vertical	PASS
3340.399	-49.56	-13.0	36.6	-0.0	Vertical	PASS

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



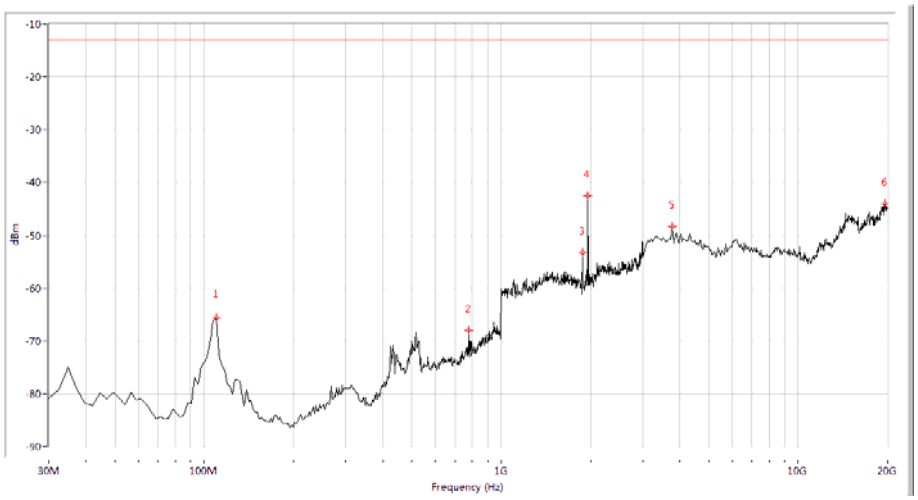
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-65.99	-13.0	53.0	360.0	Horizontal	PASS
107.406	-65.89	-13.0	52.9	290.3	Horizontal	PASS
1633.416	-52.17	-13.0	39.2	170.5	Horizontal	PASS
1927.681	-42.66	-13.0	29.7	332.4	Horizontal	PASS
3381.546	-49.72	-13.0	36.7	247.8	Horizontal	PASS
19618.454	-43.80	-13.0	30.8	264.2	Horizontal	PASS

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



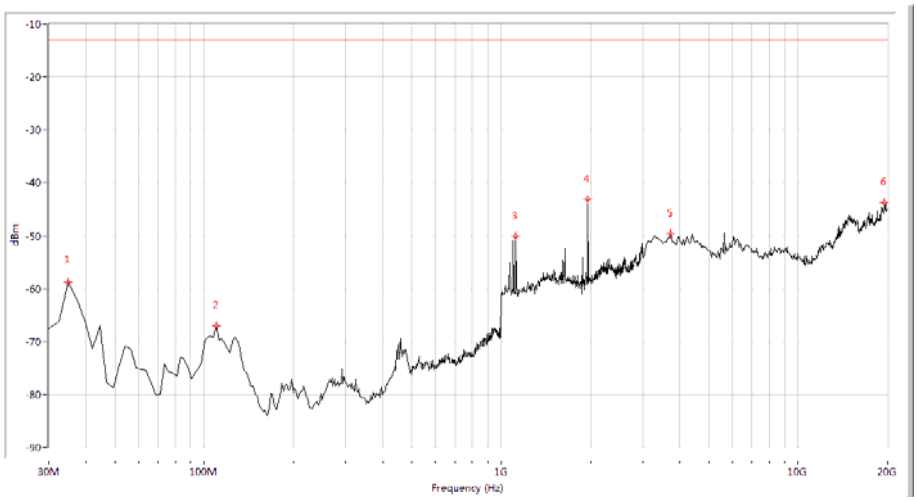
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-62.18	-13.0	49.2	107.1	Vertical	PASS
1114.713	-46.09	-13.0	33.1	358.7	Vertical	PASS
1628.429	-47.01	-13.0	34.0	3.2	Vertical	PASS
1927.681	-44.03	-13.0	31.0	336.0	Vertical	PASS
5543.641	-48.09	-13.0	35.1	92.6	Vertical	PASS
19788.030	-43.49	-13.0	30.5	350.9	Vertical	PASS

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



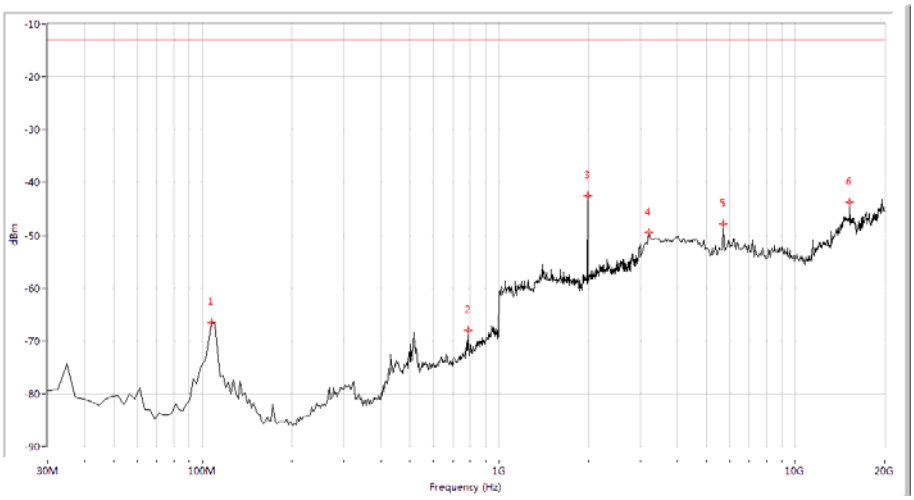
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-65.61	-13.0	52.6	0.7	Horizontal	PASS
777.456	-68.01	-13.0	55.0	349.1	Horizontal	PASS
1877.805	-53.27	-13.0	40.3	207.3	Horizontal	PASS
1957.606	-42.49	-13.0	29.5	46.9	Horizontal	PASS
3763.092	-48.38	-13.0	35.4	161.9	Horizontal	PASS
19618.454	-44.06	-13.0	31.1	321.6	Horizontal	PASS

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



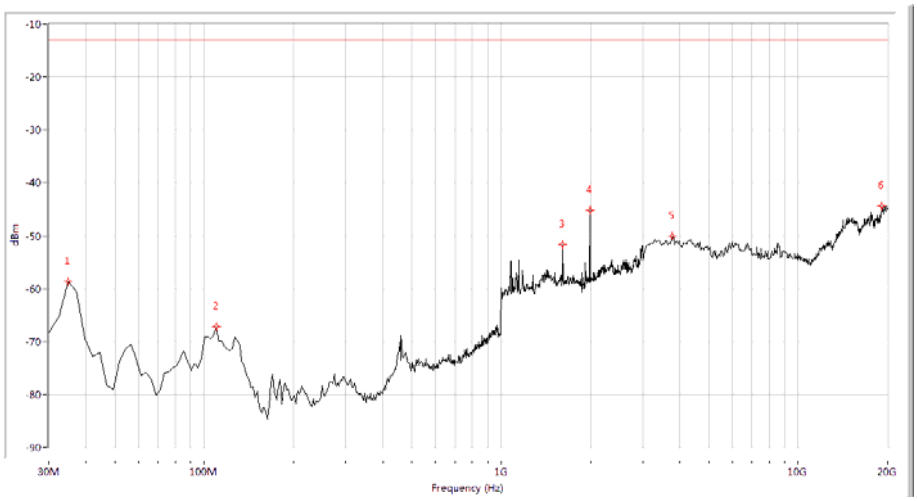
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-58.77	-13.0	45.8	359.1	Vertical	PASS
109.825	-67.08	-13.0	54.1	360.0	Vertical	PASS
1119.701	-50.01	-13.0	37.0	194.3	Vertical	PASS
1957.606	-43.12	-13.0	30.1	156.4	Vertical	PASS
3720.698	-49.67	-13.0	36.7	346.5	Vertical	PASS
19533.666	-43.80	-13.0	30.8	160.0	Vertical	PASS

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



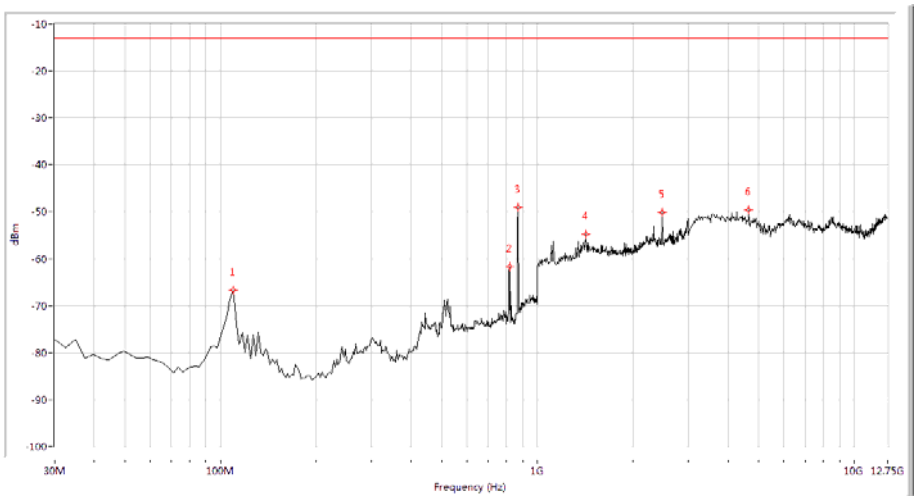
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
107.406	-66.58	-13.0	53.6	138.8	Horizontal	PASS
787.132	-67.91	-13.0	54.9	344.3	Horizontal	PASS
1987.531	-42.55	-13.0	29.5	189.1	Horizontal	PASS
3211.970	-49.38	-13.0	36.4	135.1	Horizontal	PASS
5713.217	-47.81	-13.0	34.8	232.6	Horizontal	PASS
15251.870	-43.79	-13.0	30.8	135.1	Horizontal	PASS

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



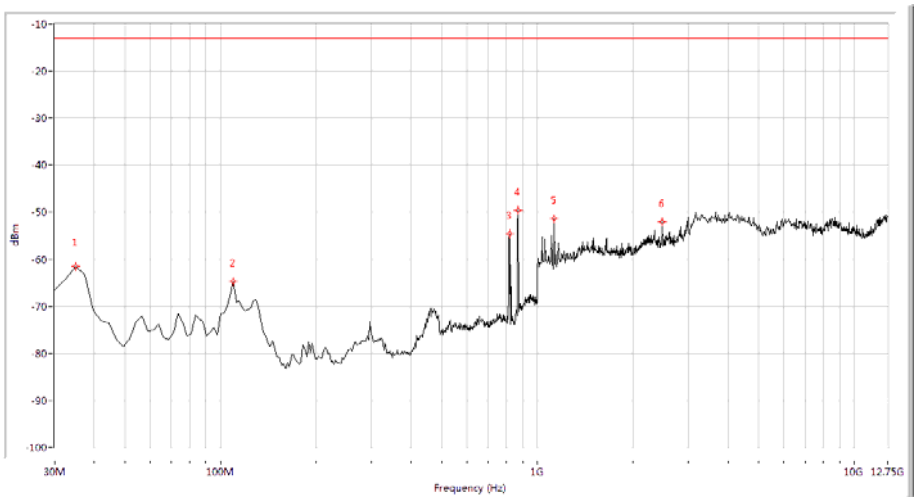
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-58.70	-13.0	45.7	-0.0	Vertical	PASS
109.825	-67.17	-13.0	54.2	348.0	Vertical	PASS
1613.466	-51.66	-13.0	38.7	213.6	Vertical	PASS
1987.531	-45.16	-13.0	32.2	318.2	Vertical	PASS
3763.092	-50.15	-13.0	37.1	204.0	Vertical	PASS
19109.726	-44.42	-13.0	31.4	78.2	Vertical	PASS

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



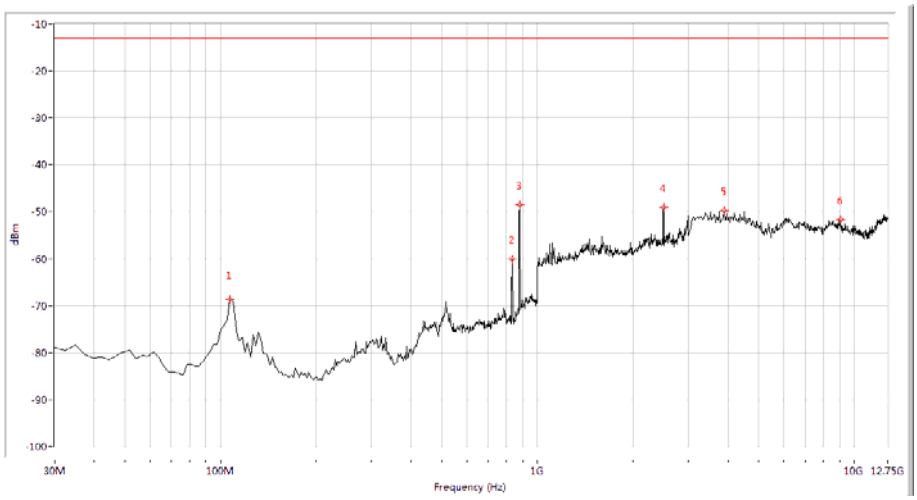
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-66.67	-13.0	53.7	118.7	Horizontal	PASS
816.160	-61.74	-13.0	48.7	32.7	Horizontal	PASS
869.377	-48.99	-13.0	36.0	295.5	Horizontal	PASS
1423.940	-54.80	-13.0	41.8	6.9	Horizontal	PASS
2481.297	-50.16	-13.0	37.2	60.3	Horizontal	PASS
4653.367	-49.48	-13.0	36.5	291.8	Horizontal	PASS

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



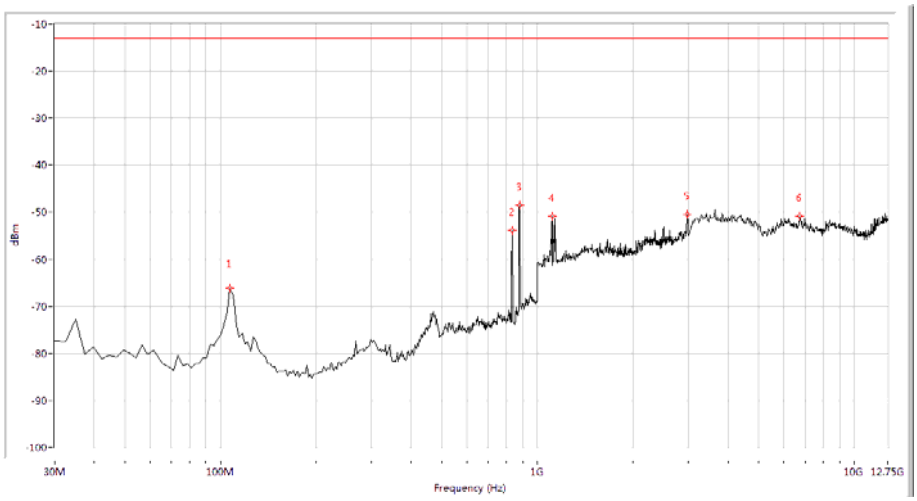
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-61.46	-13.0	48.5	59.6	Vertical	PASS
109.825	-64.75	-13.0	51.8	360.0	Vertical	PASS
816.160	-54.56	-13.0	41.6	241.1	Vertical	PASS
869.377	-49.56	-13.0	36.6	187.2	Vertical	PASS
1129.676	-51.32	-13.0	38.3	181.6	Vertical	PASS
2481.297	-52.11	-13.0	39.1	293.7	Vertical	PASS

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



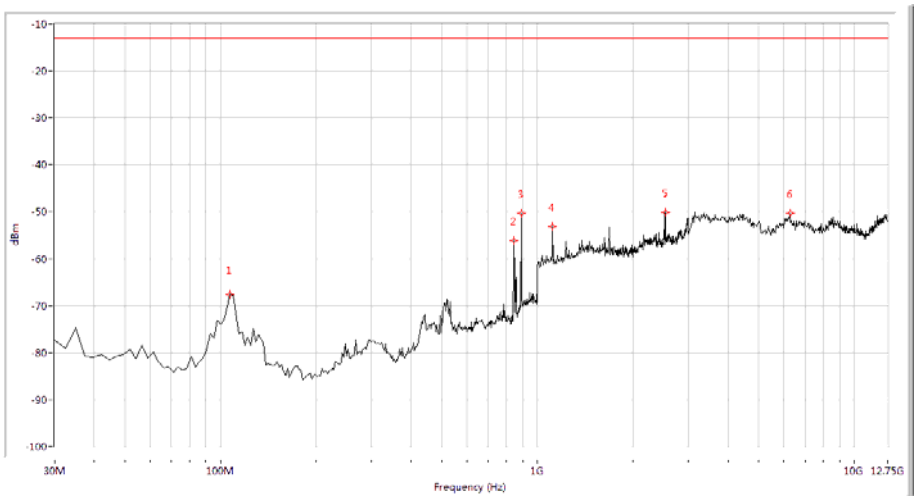
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
107.406	-68.62	-13.0	55.6	-0.0	Horizontal	PASS
835.511	-59.99	-13.0	47.0	33.1	Horizontal	PASS
879.052	-48.46	-13.0	35.5	81.5	Horizontal	PASS
2506.234	-49.08	-13.0	36.1	66.3	Horizontal	PASS
3899.626	-49.80	-13.0	36.8	70.3	Horizontal	PASS
9078.554	-51.64	-13.0	38.6	126.2	Horizontal	PASS

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



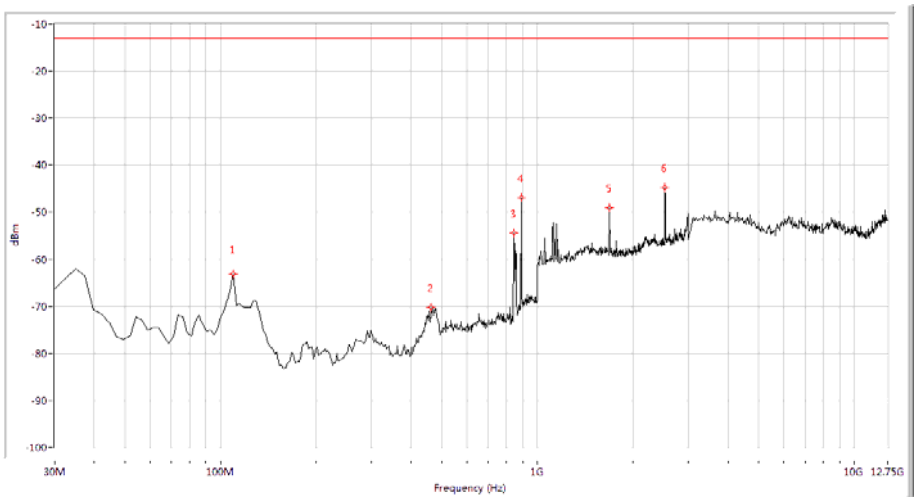
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
107.406	-66.14	-13.0	53.1	210.3	Vertical	PASS
835.511	-53.80	-13.0	40.8	232.6	Vertical	PASS
879.052	-48.50	-13.0	35.5	18.9	Vertical	PASS
1119.701	-50.80	-13.0	37.8	90.5	Vertical	PASS
2975.062	-50.44	-13.0	37.4	360.0	Vertical	PASS
6744.389	-50.76	-13.0	37.8	267.6	Vertical	PASS

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



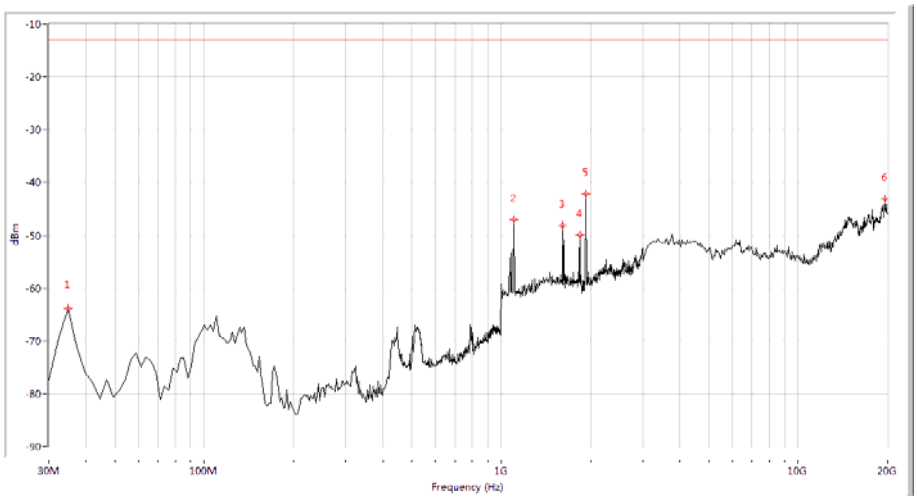
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
107.406	-67.60	-13.0	54.6	360.0	Horizontal	PASS
845.187	-56.24	-13.0	43.2	176.0	Horizontal	PASS
891.147	-50.35	-13.0	37.3	122.8	Horizontal	PASS
1119.701	-53.09	-13.0	40.1	231.5	Horizontal	PASS
2541.147	-50.08	-13.0	37.1	75.2	Horizontal	PASS
6282.419	-50.33	-13.0	37.3	336.1	Horizontal	PASS

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



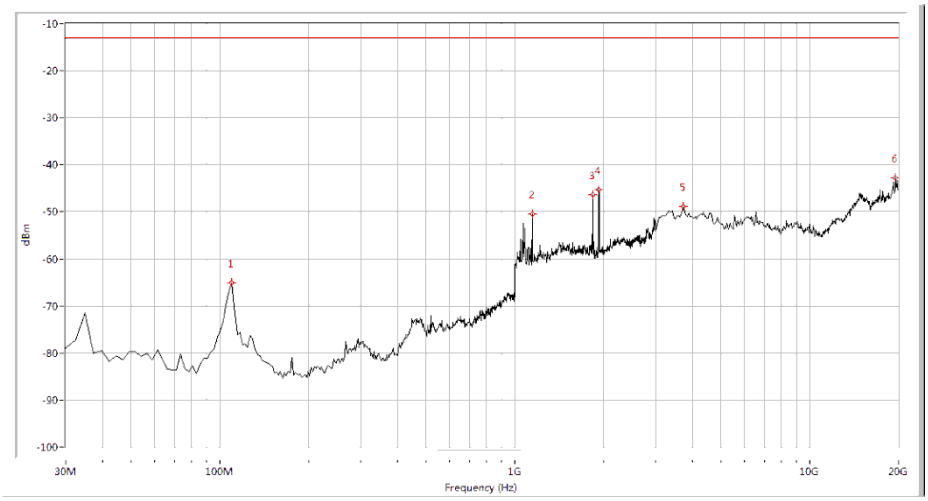
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-63.03	-13.0	50.0	157.8	Vertical	PASS
462.993	-70.19	-13.0	57.2	263.5	Vertical	PASS
845.187	-54.44	-13.0	41.4	45.0	Vertical	PASS
891.147	-46.87	-13.0	33.9	200.6	Vertical	PASS
1693.267	-49.05	-13.0	36.0	-0.0	Vertical	PASS
2531.172	-44.68	-13.0	31.7	276.1	Vertical	PASS

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



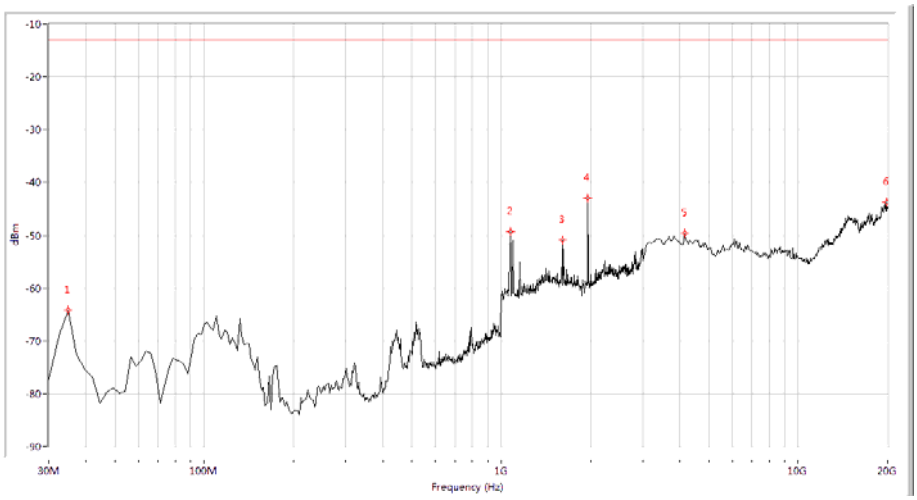
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-63.88	-13.0	50.9	352.3	Horizontal	PASS
1104.738	-47.07	-13.0	34.1	58.8	Horizontal	PASS
1613.466	-48.13	-13.0	35.1	104.6	Horizontal	PASS
1837.905	-49.97	-13.0	37.0	308.9	Horizontal	PASS
1927.681	-42.24	-13.0	29.2	237.1	Horizontal	PASS
19618.454	-43.04	-13.0	30.0	91.2	Horizontal	PASS

(Plot F.1: WCDMA 1900MHz Channel = 9262, Test Antenna Horizontal)



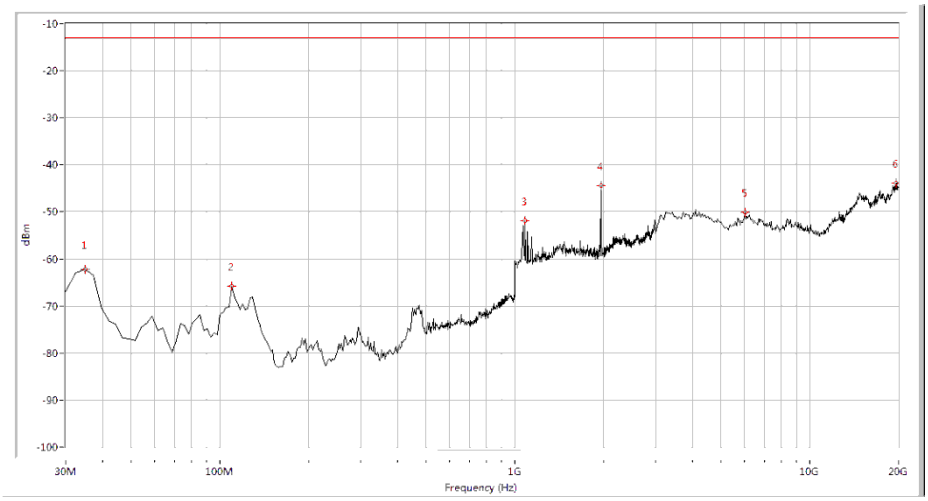
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-65.04	-13.0	52.0	190.9	Vertical	PASS
1144.638	-50.38	-13.0	37.4	327.9	Vertical	PASS
1837.905	-46.34	-13.0	33.3	29.8	Vertical	PASS
1927.681	-45.29	-13.0	32.3	332.0	Vertical	PASS
3720.698	-48.77	-13.0	35.8	176.4	Vertical	PASS
19533.666	-42.81	-13.0	29.8	-0.0	Vertical	PASS

(Plot F.2: WCDMA 1900MHz Channel = 9262, Test Antenna Vertical)



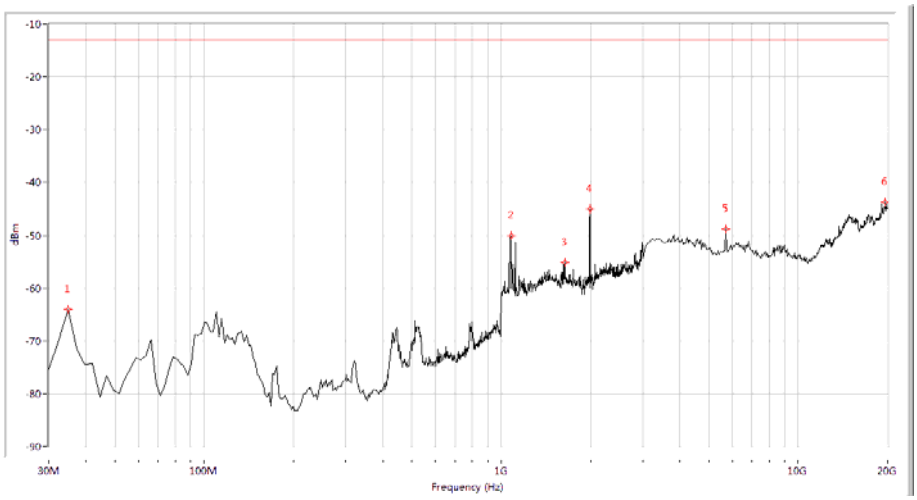
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-64.15	-13.0	51.1	316.8	Horizontal	PASS
1074.813	-49.28	-13.0	36.3	236.7	Horizontal	PASS
1613.466	-50.85	-13.0	37.9	193.6	Horizontal	PASS
1957.606	-42.89	-13.0	29.9	265.8	Horizontal	PASS
4144.638	-49.56	-13.0	36.6	360.0	Horizontal	PASS
19830.424	-43.70	-13.0	30.7	49.2	Horizontal	PASS

(Plot F.3: WCDMA 1900MHz Channel = 9400, Test Antenna Horizontal)



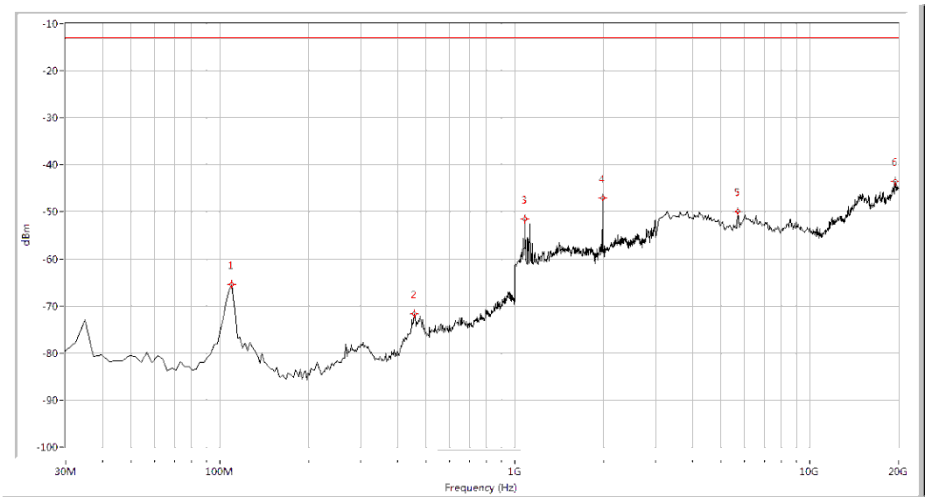
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-62.23	-13.0	49.2	319.5	Vertical	PASS
109.825	-65.87	-13.0	52.9	285.3	Vertical	PASS
1084.788	-51.81	-13.0	38.8	110.6	Vertical	PASS
1957.606	-44.47	-13.0	31.5	333.9	Vertical	PASS
6052.369	-50.08	-13.0	37.1	160.7	Vertical	PASS
19576.060	-43.84	-13.0	30.8	45.3	Vertical	PASS

(Plot F.4: WCDMA 1900MHz Channel = 9400, Test Antenna Vertical)



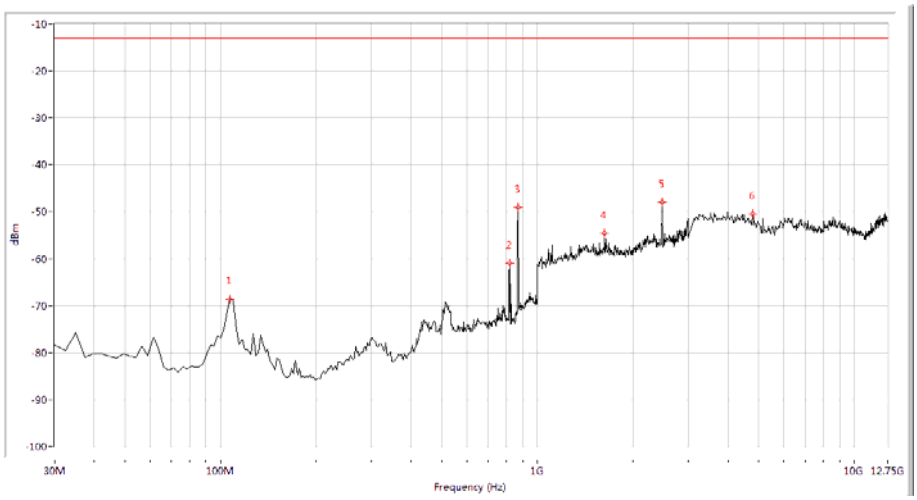
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-64.03	-13.0	51.0	360.0	Horizontal	PASS
1079.800	-50.06	-13.0	37.1	107.6	Horizontal	PASS
1638.404	-55.08	-13.0	42.1	233.1	Horizontal	PASS
1987.531	-45.05	-13.0	32.0	161.6	Horizontal	PASS
5713.217	-48.82	-13.0	35.8	188.0	Horizontal	PASS
19618.454	-43.79	-13.0	30.8	298.9	Horizontal	PASS

(Plot F.5: WCDMA 1900MHz Channel = 9538, Test Antenna Horizontal)



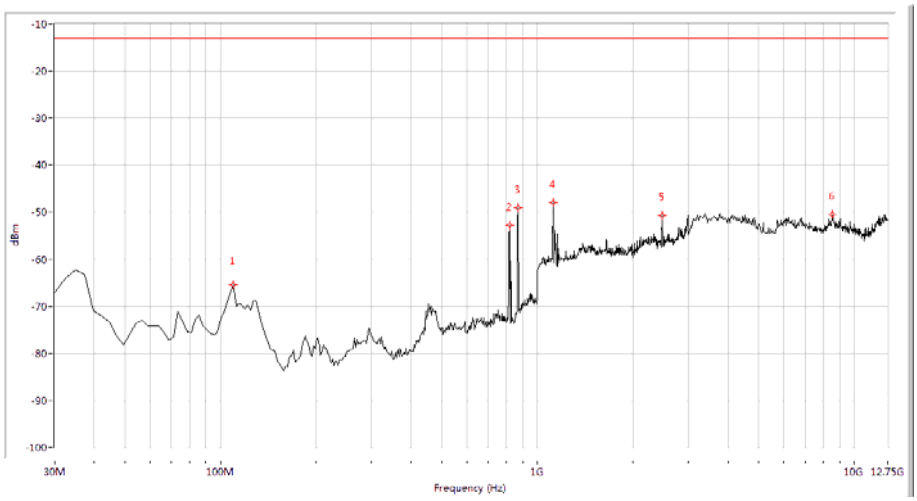
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-65.35	-13.0	52.3	3.4	Vertical	PASS
455.736	-71.70	-13.0	58.7	359.0	Vertical	PASS
1084.788	-51.48	-13.0	38.5	242.7	Vertical	PASS
1987.531	-47.12	-13.0	34.1	51.4	Vertical	PASS
5713.217	-49.85	-13.0	36.8	281.4	Vertical	PASS
19533.666	-43.58	-13.0	30.6	103.1	Vertical	PASS

(Plot F.6: WCDMA 1900MHz Channel = 9538, Test Antenna Vertical)



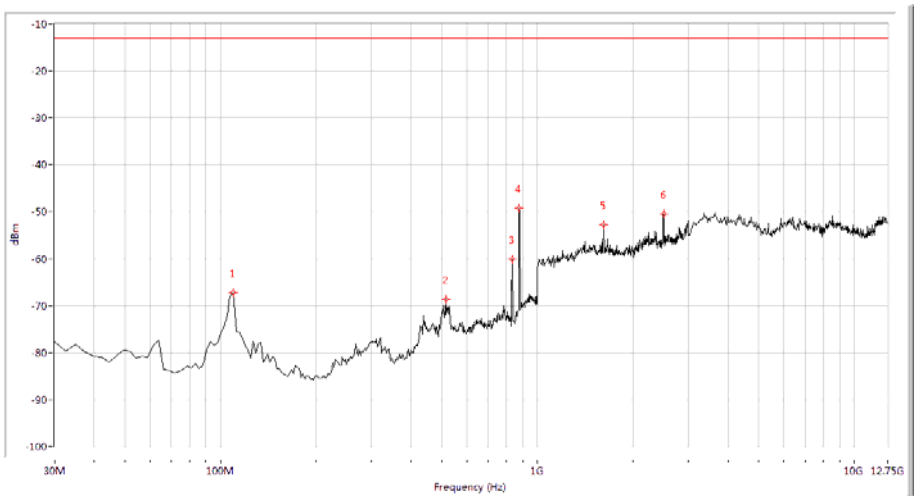
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
107.406	-68.71	-13.0	55.7	307.0	Horizontal	PASS
816.160	-60.98	-13.0	48.0	170.5	Horizontal	PASS
871.796	-49.00	-13.0	36.0	72.7	Horizontal	PASS
1628.429	-54.62	-13.0	41.6	299.3	Horizontal	PASS
2471.322	-48.00	-13.0	35.0	63.6	Horizontal	PASS
4774.938	-50.40	-13.0	37.4	250.1	Horizontal	PASS

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



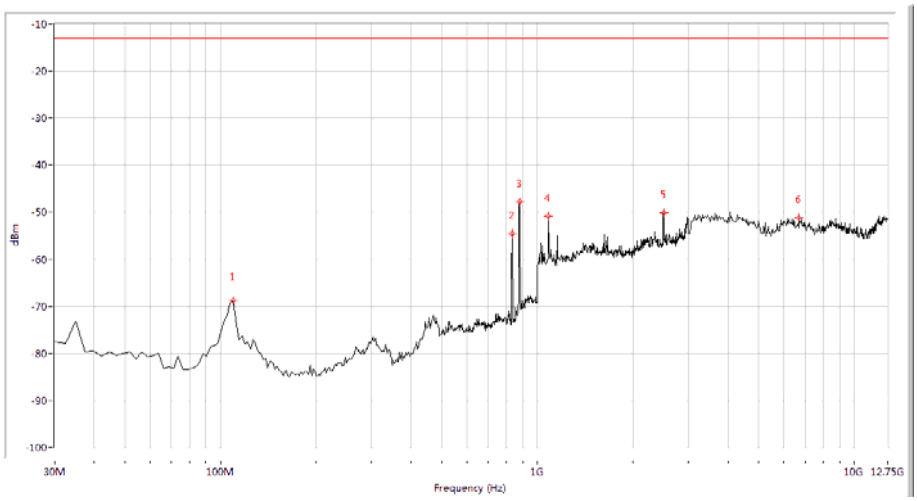
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-65.38	-13.0	52.4	320.1	Vertical	PASS
816.160	-52.77	-13.0	39.8	67.7	Vertical	PASS
869.377	-49.08	-13.0	36.1	193.9	Vertical	PASS
1124.688	-47.99	-13.0	35.0	283.2	Vertical	PASS
2471.322	-50.63	-13.0	37.6	92.3	Vertical	PASS
8543.641	-50.51	-13.0	37.5	360.0	Vertical	PASS

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



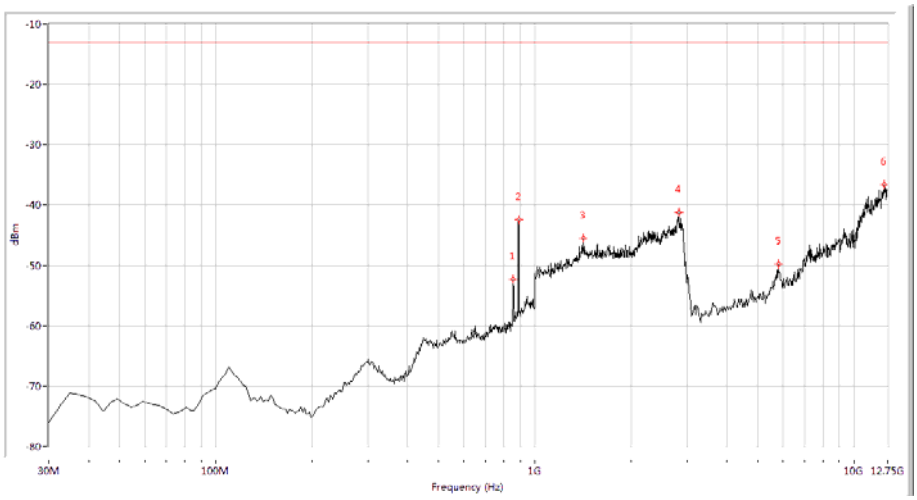
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-67.29	-13.0	54.3	349.4	Horizontal	PASS
513.791	-68.72	-13.0	55.7	105.7	Horizontal	PASS
835.511	-60.07	-13.0	47.1	180.1	Horizontal	PASS
876.633	-49.24	-13.0	36.2	142.9	Horizontal	PASS
1618.454	-52.82	-13.0	39.8	360.0	Horizontal	PASS
2506.234	-50.37	-13.0	37.4	63.3	Horizontal	PASS

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



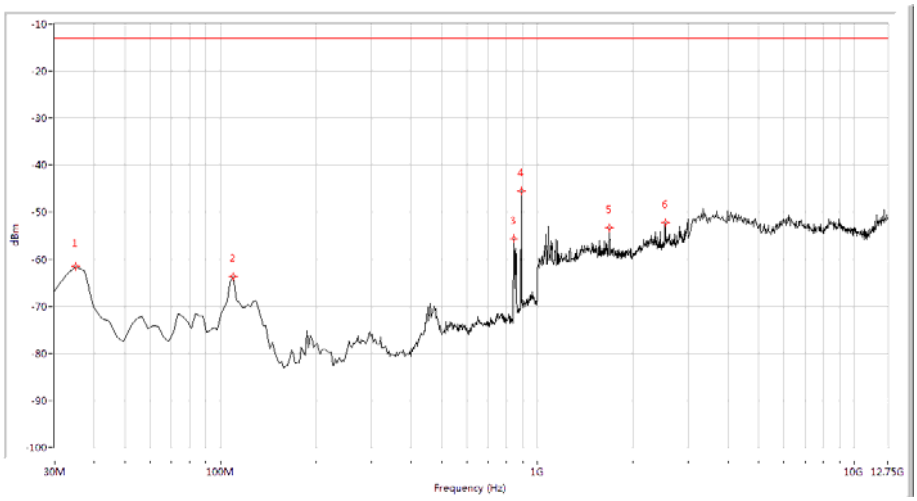
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-68.79	-13.0	55.8	15.3	Vertical	PASS
835.511	-54.51	-13.0	41.5	236.7	Vertical	PASS
879.052	-47.77	-13.0	34.8	231.8	Vertical	PASS
1084.788	-50.86	-13.0	37.9	231.5	Vertical	PASS
2506.234	-50.17	-13.0	37.2	291.0	Vertical	PASS
6695.761	-51.21	-13.0	38.2	23.9	Vertical	PASS

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



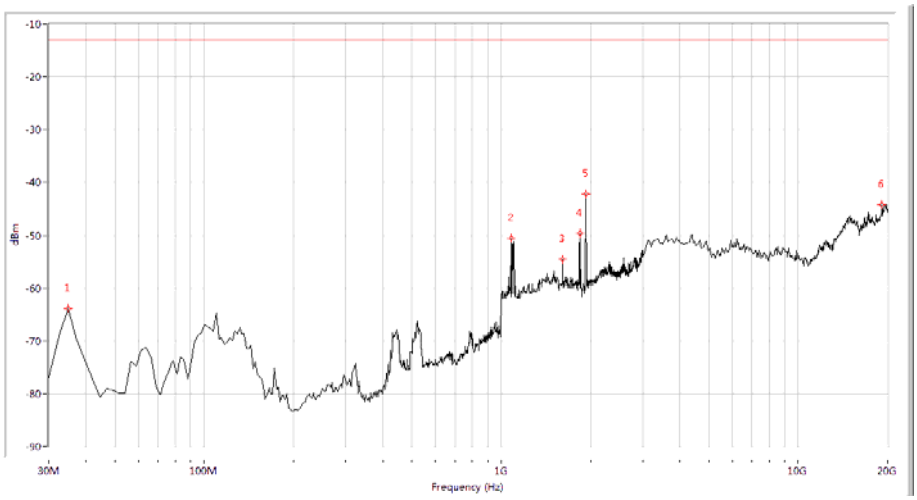
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
854.863	-52.32	-13.0	39.3	13.4	Horizontal	PASS
891.147	-42.49	-13.0	29.5	245.7	Horizontal	PASS
1423.940	-45.45	-13.0	32.4	56.9	Horizontal	PASS
2825.436	-41.17	-13.0	28.2	163.5	Horizontal	PASS
5796.135	-49.73	-13.0	36.7	6.0	Horizontal	PASS
12433.915	-36.65	-13.0	23.6	312.8	Horizontal	PASS

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



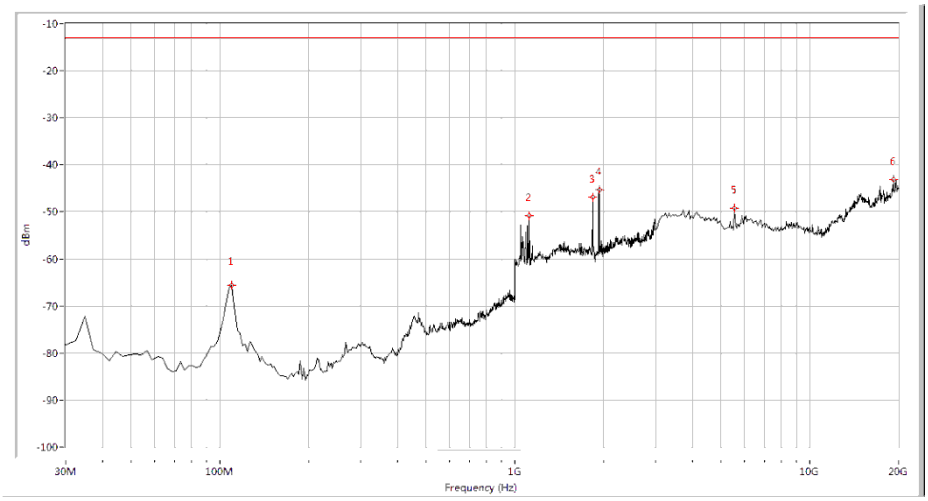
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-61.46	-13.0	48.5	340.2	Vertical	PASS
109.825	-63.57	-13.0	50.6	359.7	Vertical	PASS
845.187	-55.66	-13.0	42.7	199.1	Vertical	PASS
888.728	-45.46	-13.0	32.5	125.9	Vertical	PASS
1688.279	-53.26	-13.0	40.3	-0.0	Vertical	PASS
2536.160	-52.21	-13.0	39.2	-0.0	Vertical	PASS

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



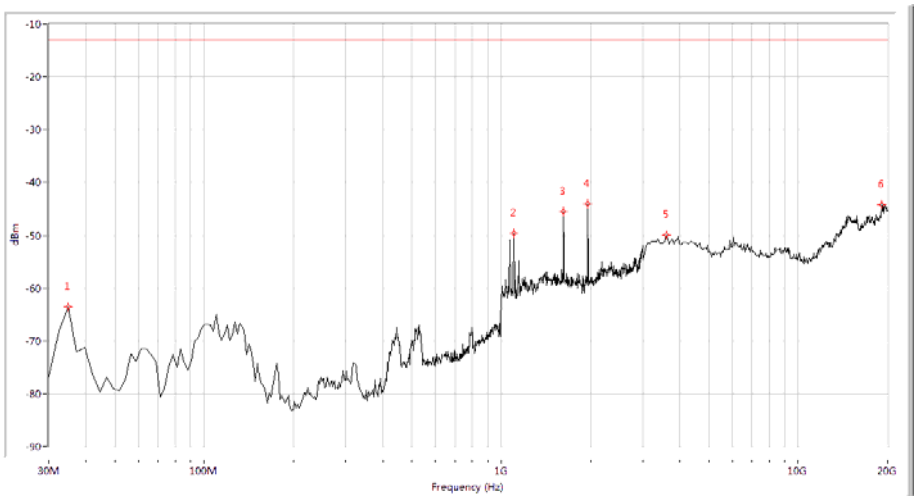
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-63.91	-13.0	50.9	339.1	Horizontal	PASS
1079.800	-50.48	-13.0	37.5	96.8	Horizontal	PASS
1608.479	-54.53	-13.0	41.5	199.5	Horizontal	PASS
1837.905	-49.55	-13.0	36.6	91.6	Horizontal	PASS
1927.681	-42.19	-13.0	29.2	232.2	Horizontal	PASS
19109.726	-44.25	-13.0	31.2	343.5	Horizontal	PASS

(Plot H.1: HSDPA 1900 MHz Channel = 9262, Test Antenna Horizontal)



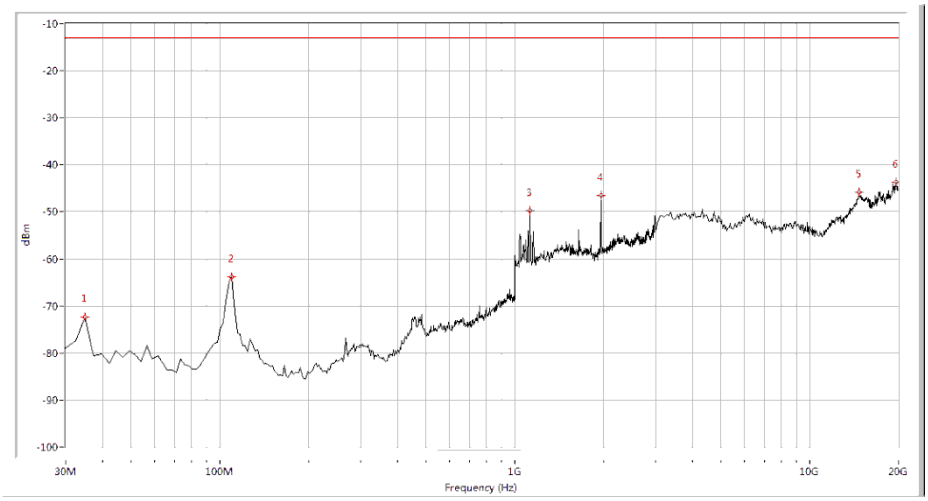
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-65.53	-13.0	52.5	250.5	Vertical	PASS
1119.701	-50.83	-13.0	37.8	313.4	Vertical	PASS
1837.905	-46.86	-13.0	33.9	37.5	Vertical	PASS
1932.668	-45.33	-13.0	32.3	202.8	Vertical	PASS
5543.641	-49.20	-13.0	36.2	77.8	Vertical	PASS
19194.514	-43.08	-13.0	30.1	42.5	Vertical	PASS

(Plot H.2: HSDPA 1900 MHz Channel = 9262, Test Antenna Vertical)



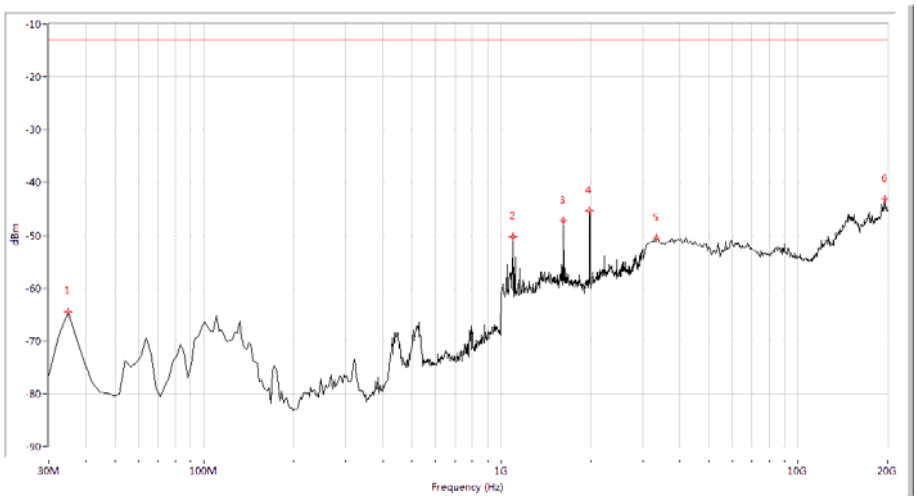
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-63.51	-13.0	50.5	280.0	Horizontal	PASS
1104.738	-49.59	-13.0	36.6	8.8	Horizontal	PASS
1623.441	-45.53	-13.0	32.5	4.2	Horizontal	PASS
1957.606	-44.06	-13.0	31.1	203.3	Horizontal	PASS
3593.516	-49.89	-13.0	36.9	211.4	Horizontal	PASS
19109.726	-44.24	-13.0	31.2	143.6	Horizontal	PASS

(PlotH.3:HSDPA 1900 MHz Channel = 9400, Test Antenna Horizontal)



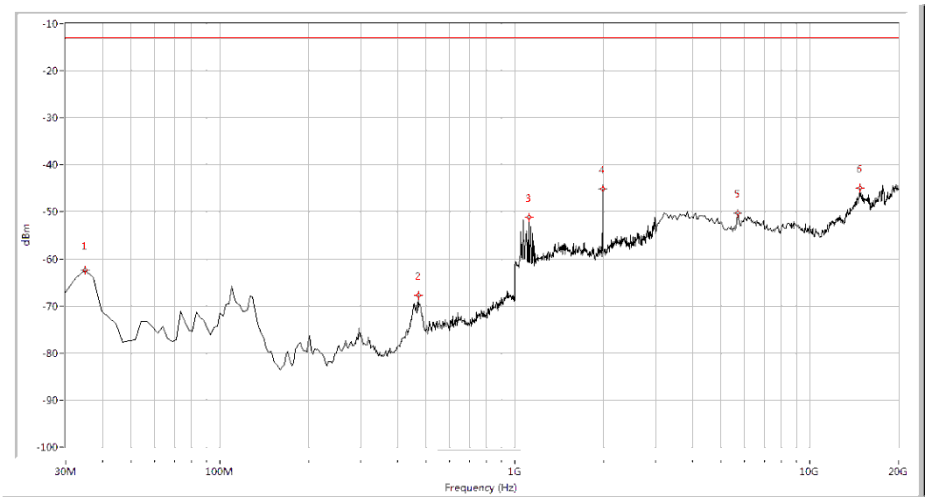
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-72.35	-13.0	59.3	179.4	Vertical	PASS
109.825	-63.75	-13.0	50.8	219.3	Vertical	PASS
1124.688	-49.67	-13.0	36.7	47.1	Vertical	PASS
1957.606	-46.52	-13.0	33.5	336.5	Vertical	PASS
14700.748	-45.90	-13.0	32.9	176.3	Vertical	PASS
19660.848	-43.63	-13.0	30.6	50.3	Vertical	PASS

(Plot H.4: HSDPA 1900 MHz Channel = 9400, Test Antenna Vertical)



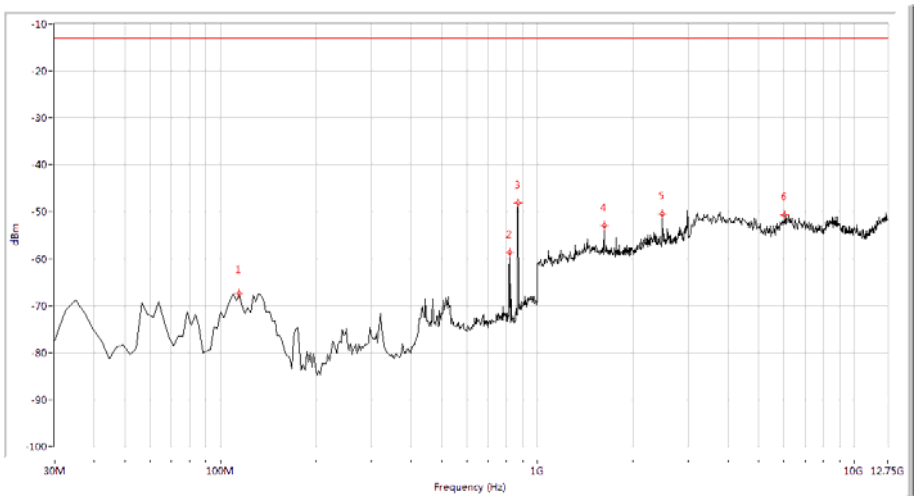
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-64.51	-13.0	51.5	286.6	Horizontal	PASS
1099.751	-50.19	-13.0	37.2	304.8	Horizontal	PASS
1623.441	-47.28	-13.0	34.3	355.4	Horizontal	PASS
1982.544	-45.32	-13.0	32.3	239.3	Horizontal	PASS
3339.152	-50.48	-13.0	37.5	308.6	Horizontal	PASS
19576.060	-43.14	-13.0	30.1	333.9	Horizontal	PASS

(Plot H.5: HSDPA 1900 MHz Channel = 9538, Test Antenna Horizontal)



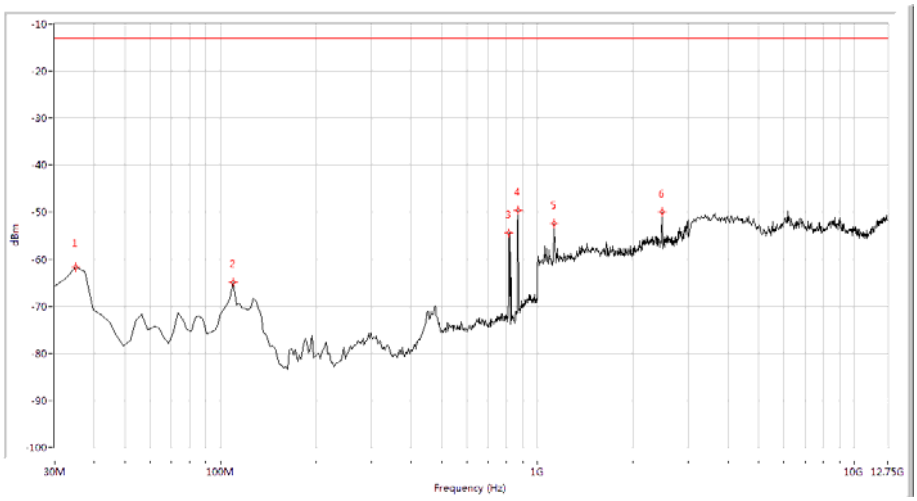
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-62.37	-13.0	49.4	18.6	Vertical	PASS
470.249	-67.79	-13.0	54.8	166.8	Vertical	PASS
1114.713	-51.12	-13.0	38.1	1.3	Vertical	PASS
1987.531	-45.10	-13.0	32.1	83.4	Vertical	PASS
5713.217	-50.35	-13.0	37.3	97.9	Vertical	PASS
14827.930	-44.93	-13.0	31.9	56.2	Vertical	PASS

(Plot H.6: HSDPA 1900 MHz Channel = 9538, Test Antenna Vertical)



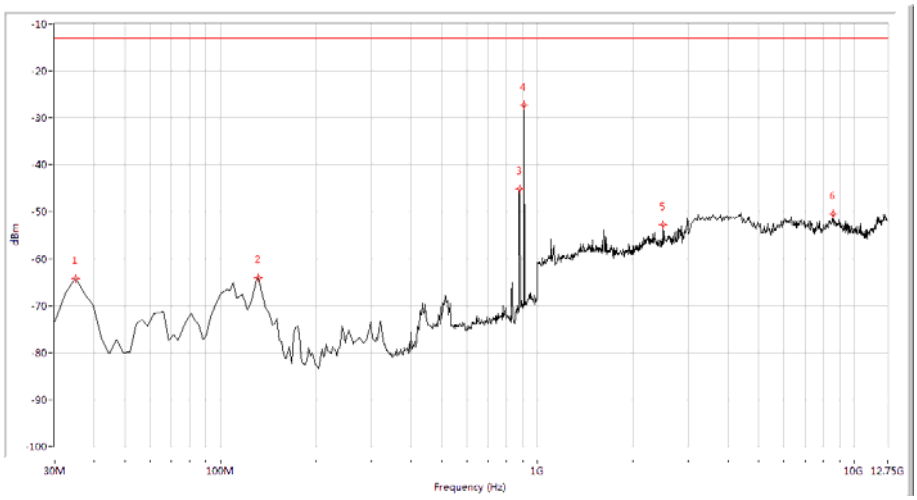
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
114.663	-67.47	-13.0	54.5	71.2	Horizontal	PASS
816.160	-58.61	-13.0	45.6	168.2	Horizontal	PASS
869.377	-48.23	-13.0	35.2	76.7	Horizontal	PASS
1623.441	-52.99	-13.0	40.0	266.1	Horizontal	PASS
2481.297	-50.45	-13.0	37.5	68.5	Horizontal	PASS
6039.277	-50.65	-13.0	37.6	335.2	Horizontal	PASS

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



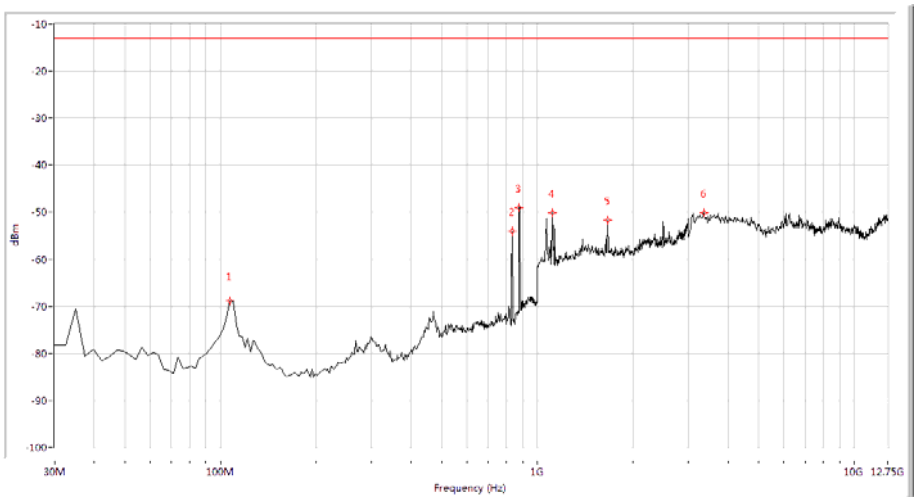
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-61.72	-13.0	48.7	281.0	Vertical	PASS
109.825	-64.86	-13.0	51.9	-0.0	Vertical	PASS
813.741	-54.30	-13.0	41.3	9.6	Vertical	PASS
869.377	-49.51	-13.0	36.5	191.7	Vertical	PASS
1129.676	-52.49	-13.0	39.5	161.1	Vertical	PASS
2471.322	-49.87	-13.0	36.9	289.5	Vertical	PASS

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



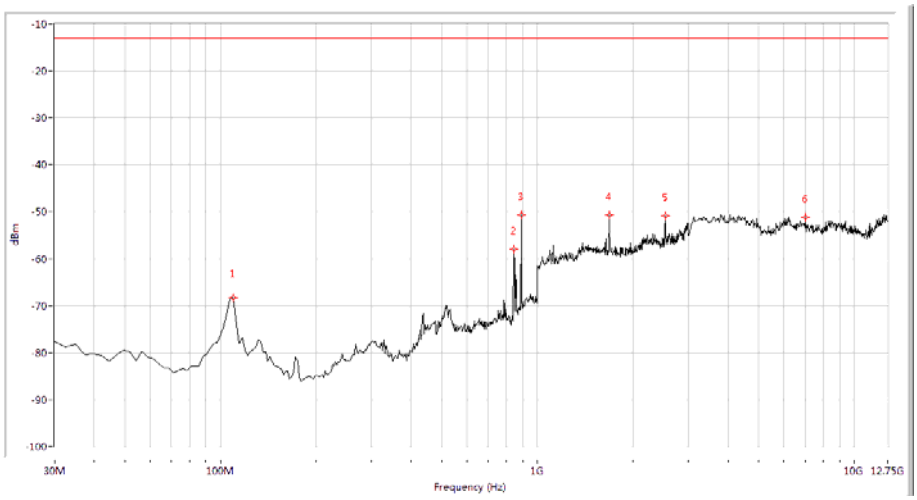
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-64.16	-13.0	51.2	248.7	Horizontal	PASS
131.596	-63.98	-13.0	51.0	333.0	Horizontal	PASS
879.052	-45.17	-13.0	32.2	228.1	Horizontal	PASS
908.080	-27.37	-13.0	14.4	63.8	Horizontal	PASS
2501.247	-52.76	-13.0	39.8	45.9	Horizontal	PASS
8592.269	-50.43	-13.0	37.4	149.9	Horizontal	PASS

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



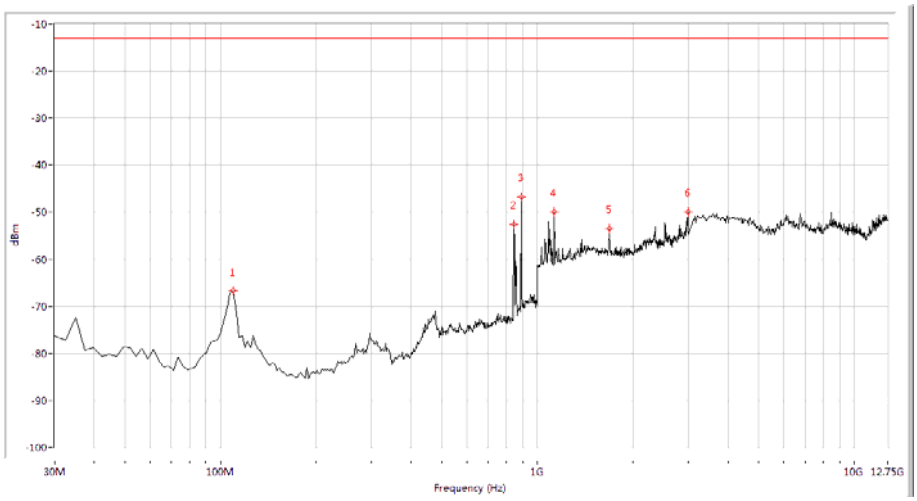
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
107.406	-68.88	-13.0	55.9	156.8	Vertical	PASS
835.511	-54.09	-13.0	41.1	360.0	Vertical	PASS
876.633	-49.04	-13.0	36.0	125.9	Vertical	PASS
1119.701	-50.06	-13.0	37.1	312.6	Vertical	PASS
1673.317	-51.64	-13.0	38.6	39.1	Vertical	PASS
3364.713	-50.10	-13.0	37.1	157.1	Vertical	PASS

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



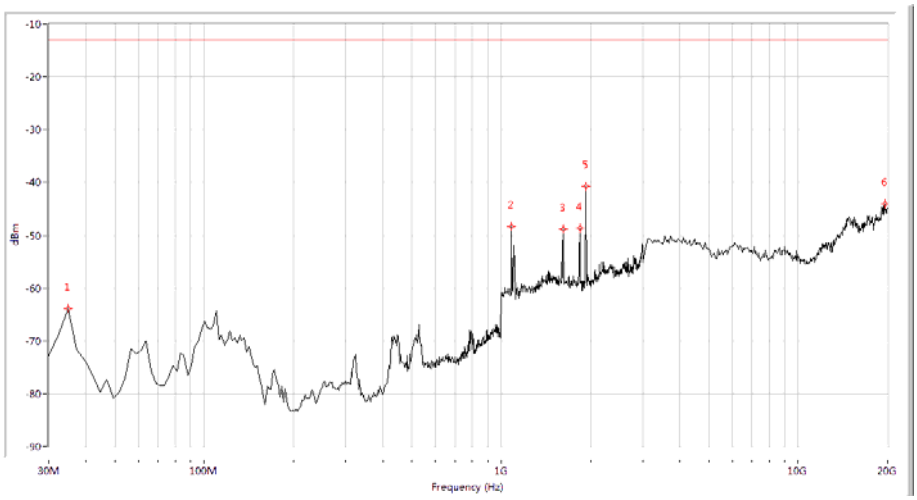
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-68.26	-13.0	55.3	358.1	Horizontal	PASS
845.187	-57.94	-13.0	44.9	179.0	Horizontal	PASS
891.147	-50.71	-13.0	37.7	343.0	Horizontal	PASS
1688.279	-50.60	-13.0	37.6	73.4	Horizontal	PASS
2541.147	-50.78	-13.0	37.8	68.5	Horizontal	PASS
7036.160	-51.20	-13.0	38.2	96.8	Horizontal	PASS

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



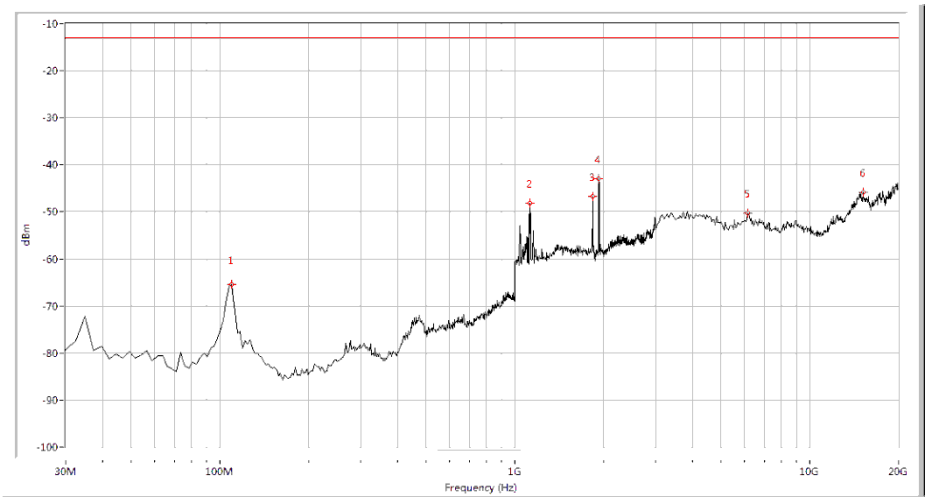
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-66.68	-13.0	53.7	124.6	Vertical	PASS
845.187	-52.58	-13.0	39.6	211.0	Vertical	PASS
888.728	-46.76	-13.0	33.8	205.8	Vertical	PASS
1129.676	-49.84	-13.0	36.8	125.9	Vertical	PASS
1688.279	-53.40	-13.0	40.4	360.0	Vertical	PASS
2985.037	-49.94	-13.0	36.9	329.0	Vertical	PASS

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



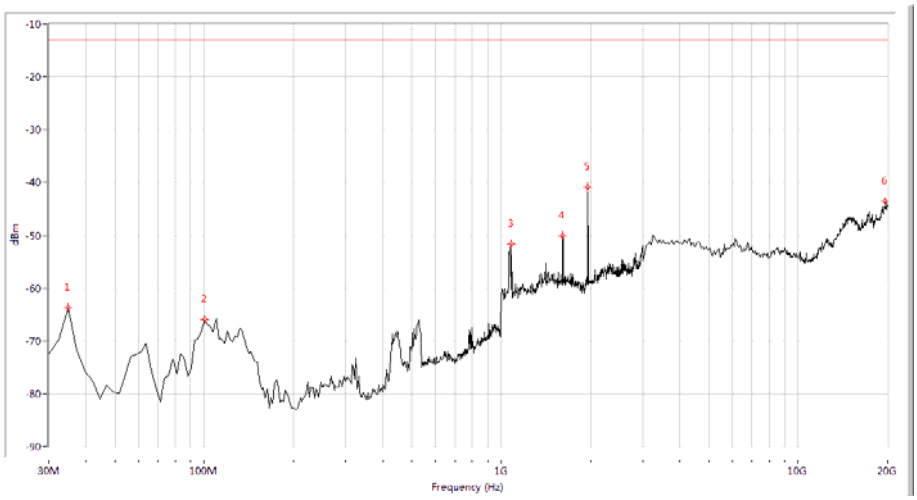
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-63.84	-13.0	50.8	301.9	Horizontal	PASS
1084.788	-48.41	-13.0	35.4	98.3	Horizontal	PASS
1618.454	-48.82	-13.0	35.8	12.7	Horizontal	PASS
1837.905	-48.69	-13.0	35.7	106.9	Horizontal	PASS
1927.681	-40.74	-13.0	27.7	238.2	Horizontal	PASS
19618.454	-44.13	-13.0	31.1	298.1	Horizontal	PASS

(Plot J.1: HSUPA 1900 MHz Channel = 9262, Test Antenna Horizontal)



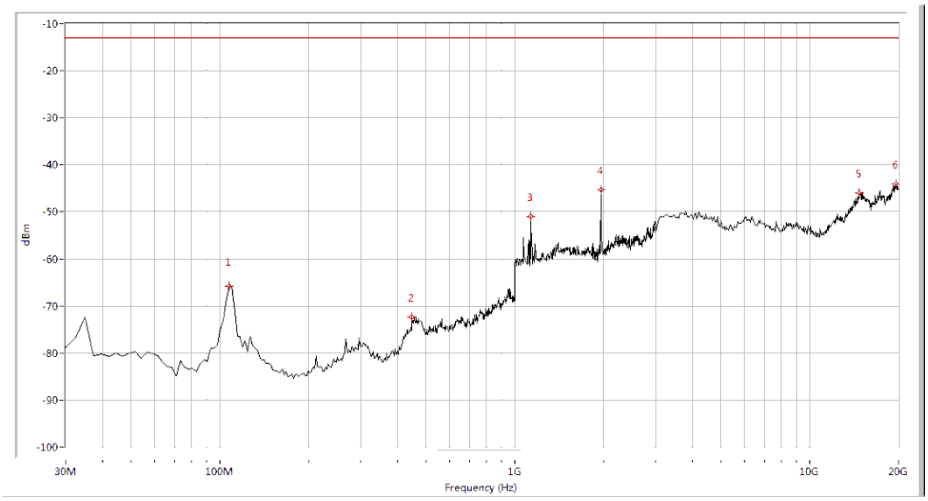
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-65.43	-13.0	52.4	360.0	Vertical	PASS
1124.688	-48.12	-13.0	35.1	244.5	Vertical	PASS
1837.905	-46.63	-13.0	33.6	30.8	Vertical	PASS
1927.681	-43.01	-13.0	30.0	33.4	Vertical	PASS
6179.551	-50.28	-13.0	37.3	99.4	Vertical	PASS
15167.082	-45.81	-13.0	32.8	315.6	Vertical	PASS

(Plot J.2: HSUPA 1900 MHz Channel = 9262, Test Antenna Vertical)



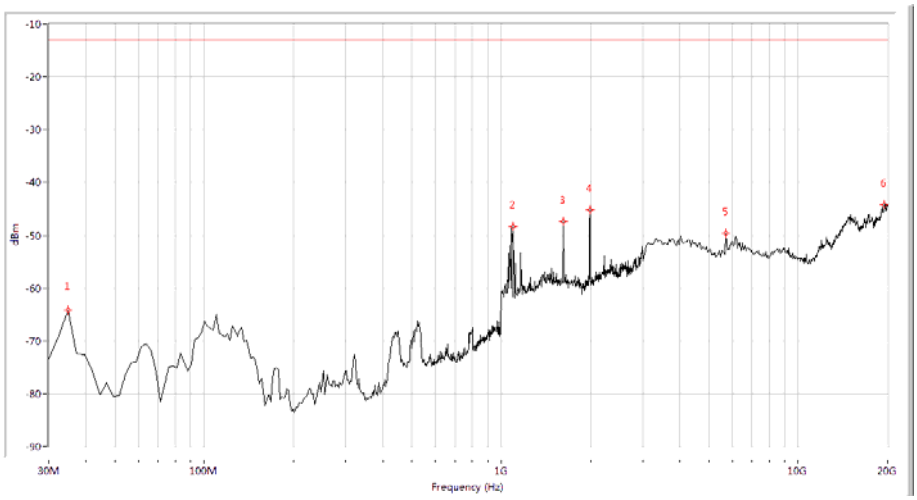
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-63.75	-13.0	50.8	280.7	Horizontal	PASS
100.150	-65.92	-13.0	52.9	68.9	Horizontal	PASS
1084.788	-51.60	-13.0	38.6	196.9	Horizontal	PASS
1608.479	-50.07	-13.0	37.1	127.0	Horizontal	PASS
1957.606	-40.95	-13.0	27.9	155.3	Horizontal	PASS
19618.454	-43.51	-13.0	30.5	210.7	Horizontal	PASS

(Plot J.3: HSUPA 1900 MHz Channel = 9400, Test Antenna Horizontal)



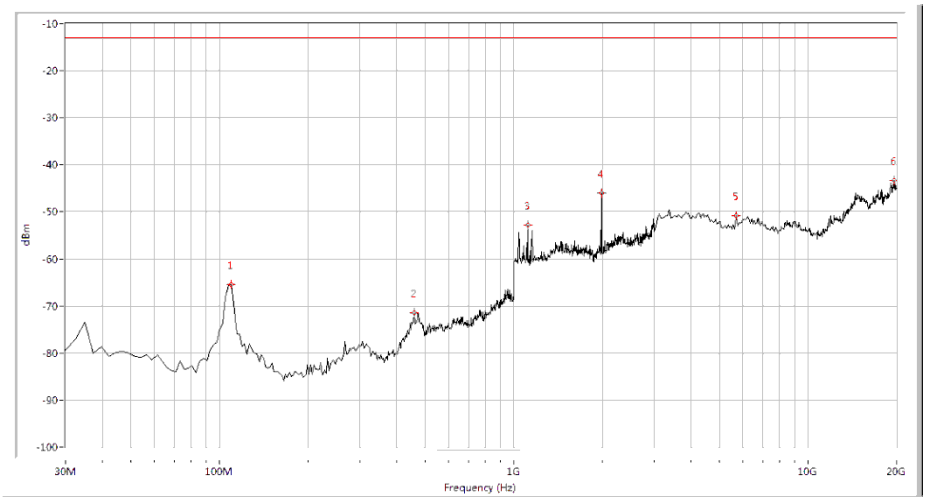
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
107.406	-65.74	-13.0	52.7	150.5	Vertical	PASS
448.479	-72.41	-13.0	59.4	25.8	Vertical	PASS
1129.676	-51.08	-13.0	38.1	102.2	Vertical	PASS
1957.606	-45.23	-13.0	32.2	80.8	Vertical	PASS
14700.748	-46.01	-13.0	33.0	151.5	Vertical	PASS
19576.060	-44.03	-13.0	31.0	299.4	Vertical	PASS

(Plot J.4: HSUPA 1900 MHz Channel = 9400, Test Antenna Vertical)



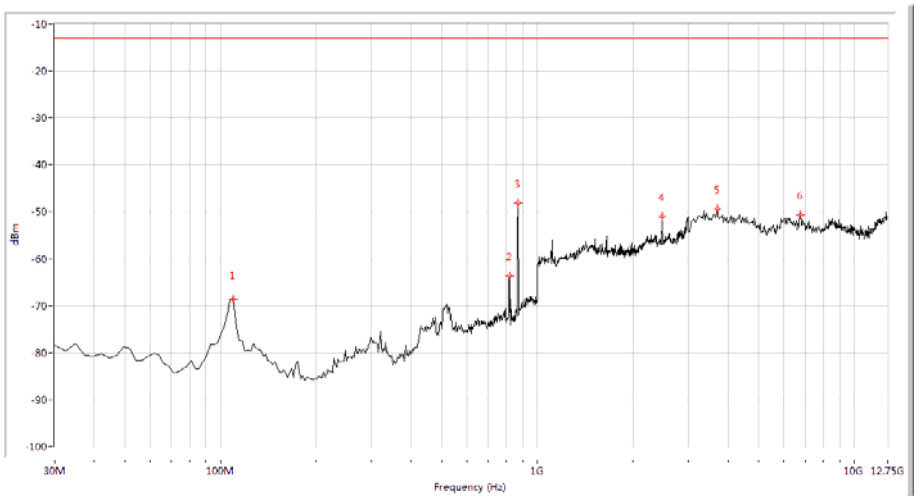
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-64.12	-13.0	51.1	-0.0	Horizontal	PASS
1094.763	-48.41	-13.0	35.4	49.9	Horizontal	PASS
1623.441	-47.38	-13.0	34.4	7.1	Horizontal	PASS
1987.531	-45.21	-13.0	32.2	341.9	Horizontal	PASS
5713.217	-49.67	-13.0	36.7	358.7	Horizontal	PASS
19491.272	-44.23	-13.0	31.2	186.1	Horizontal	PASS

(Plot J.5: HSUPA 1900 MHz Channel = 9538, Test Antenna Horizontal)



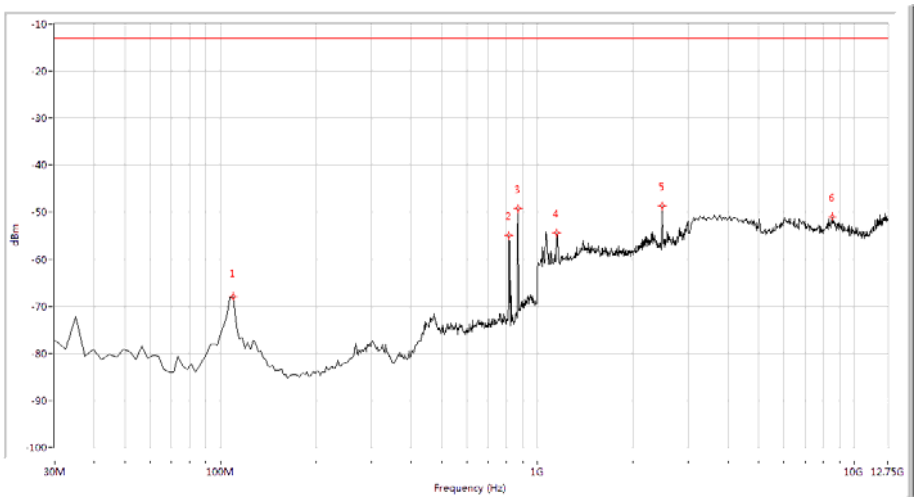
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-65.43	-13.0	52.4	15.7	Vertical	PASS
458.155	-71.40	-13.0	58.4	10.1	Vertical	PASS
1114.713	-52.70	-13.0	39.7	336.8	Vertical	PASS
1987.531	-45.98	-13.0	33.0	336.8	Vertical	PASS
5713.217	-50.77	-13.0	37.8	230.4	Vertical	PASS
19618.454	-43.31	-13.0	30.3	238.5	Vertical	PASS

(Plot J.6: HSUPA 1900 MHz Channel = 9538, Test Antenna Vertical)



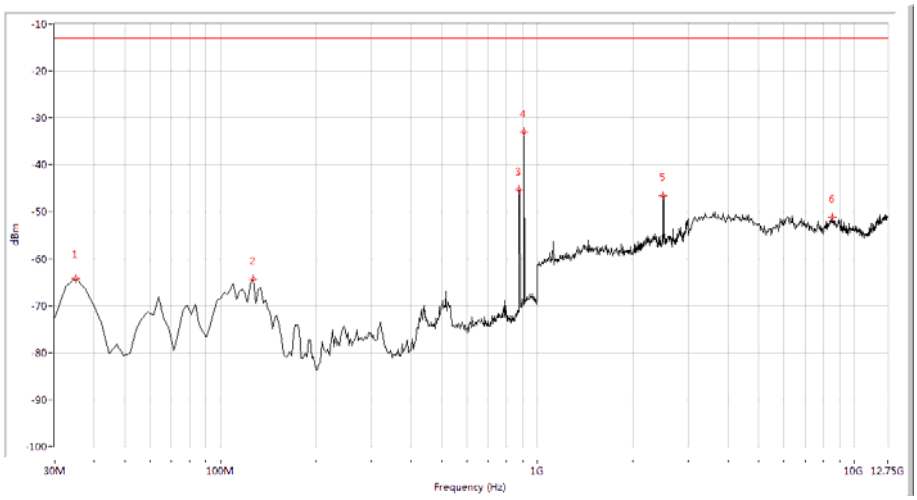
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-68.69	-13.0	55.7	356.2	Horizontal	PASS
816.160	-63.60	-13.0	50.6	37.2	Horizontal	PASS
871.796	-48.16	-13.0	35.2	292.6	Horizontal	PASS
2476.309	-50.99	-13.0	38.0	93.1	Horizontal	PASS
3705.112	-49.34	-13.0	36.3	11.9	Horizontal	PASS
6768.703	-50.70	-13.0	37.7	346.5	Horizontal	PASS

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



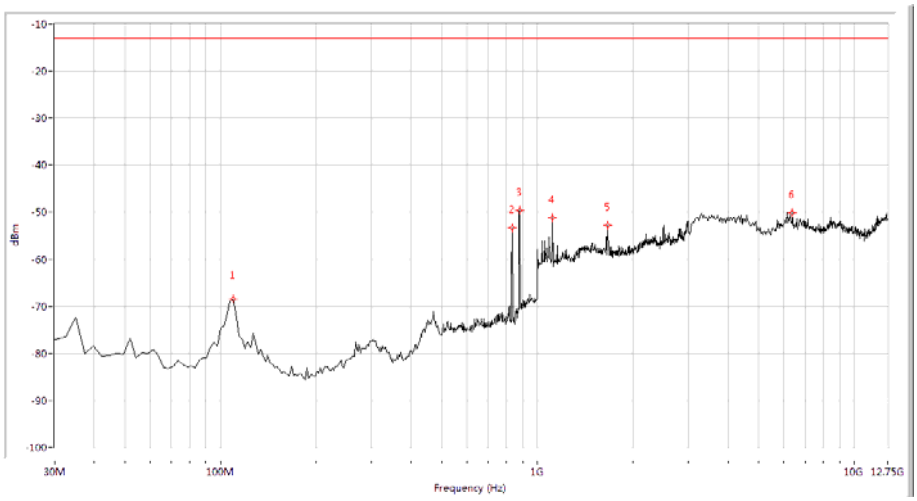
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-67.99	-13.0	55.0	9.5	Vertical	PASS
813.741	-54.87	-13.0	41.9	35.5	Vertical	PASS
869.377	-49.22	-13.0	36.2	24.7	Vertical	PASS
1149.626	-54.42	-13.0	41.4	244.2	Vertical	PASS
2471.322	-48.72	-13.0	35.7	312.3	Vertical	PASS
8543.641	-51.05	-13.0	38.0	167.6	Vertical	PASS

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



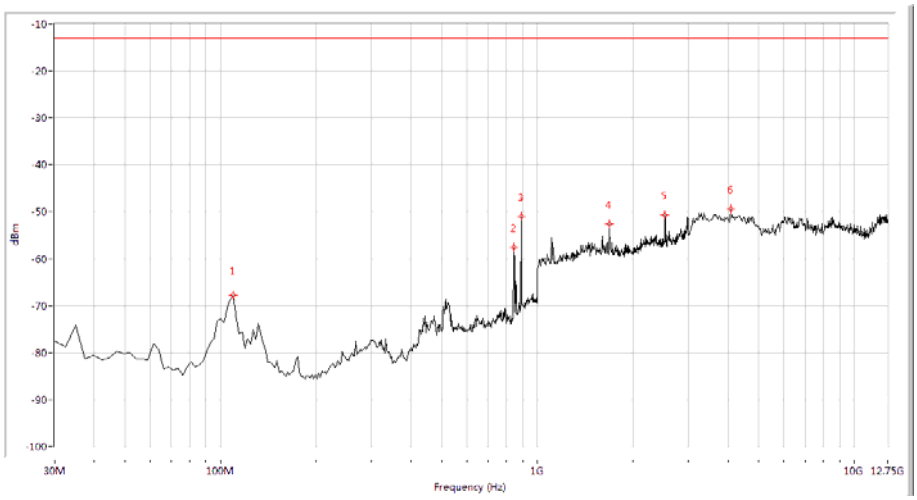
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-64.16	-13.0	51.2	201.6	Horizontal	PASS
126.758	-64.34	-13.0	51.3	-0.0	Horizontal	PASS
876.633	-45.29	-13.0	32.3	185.6	Horizontal	PASS
908.080	-33.02	-13.0	20.0	141.1	Horizontal	PASS
2501.247	-46.59	-13.0	33.6	45.9	Horizontal	PASS
8519.327	-51.22	-13.0	38.2	0.1	Horizontal	PASS

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



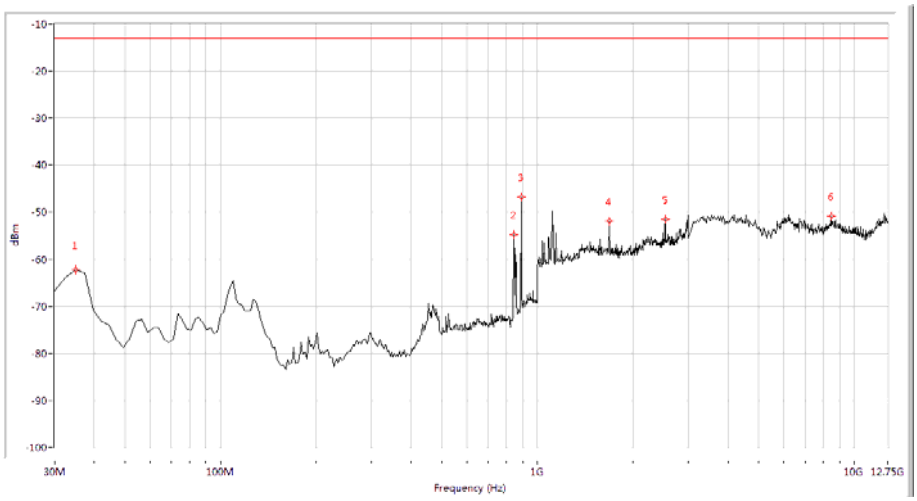
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-68.48	-13.0	55.5	188.7	Vertical	PASS
835.511	-53.30	-13.0	40.3	214.7	Vertical	PASS
879.052	-49.48	-13.0	36.5	109.8	Vertical	PASS
1119.701	-51.13	-13.0	38.1	-0.0	Vertical	PASS
1668.329	-52.69	-13.0	39.7	286.6	Vertical	PASS
6379.676	-50.17	-13.0	37.2	0.6	Vertical	PASS

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



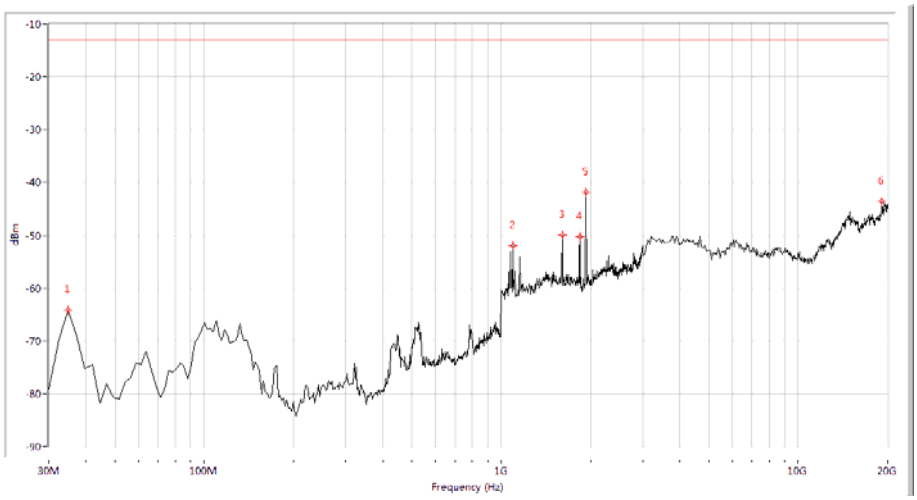
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-67.82	-13.0	54.8	139.1	Horizontal	PASS
845.187	-57.50	-13.0	44.5	191.2	Horizontal	PASS
891.147	-51.03	-13.0	38.0	118.3	Horizontal	PASS
1688.279	-52.53	-13.0	39.5	67.4	Horizontal	PASS
2531.172	-50.58	-13.0	37.6	20.1	Horizontal	PASS
4094.140	-49.33	-13.0	36.3	239.7	Horizontal	PASS

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



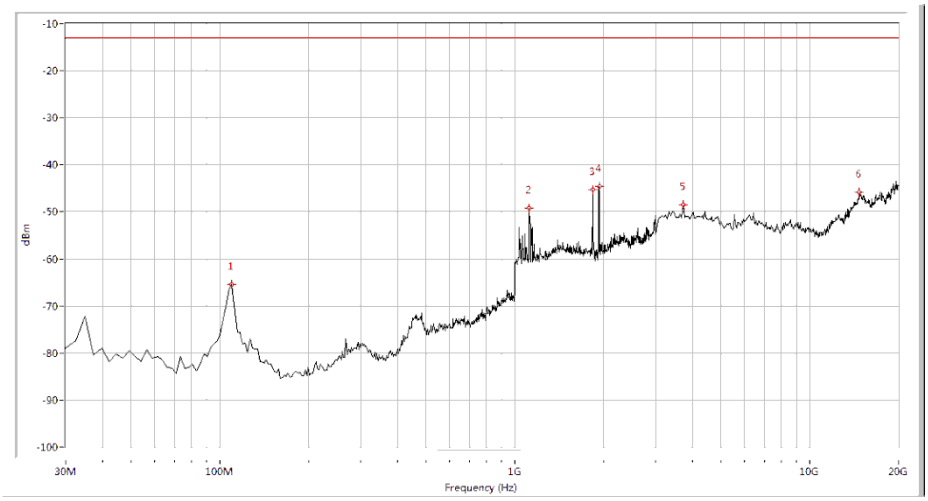
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-62.13	-13.0	49.1	48.1	Vertical	PASS
845.187	-54.78	-13.0	41.8	162.3	Vertical	PASS
888.728	-46.67	-13.0	33.7	187.9	Vertical	PASS
1688.279	-51.96	-13.0	39.0	-0.0	Vertical	PASS
2541.147	-51.56	-13.0	38.6	1.0	Vertical	PASS
8470.698	-50.83	-13.0	37.8	242.6	Vertical	PASS

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



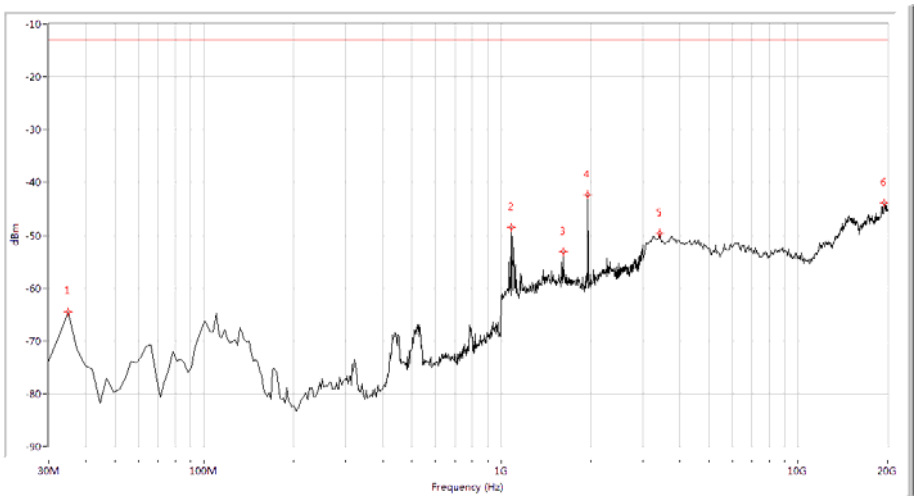
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-64.14	-13.0	51.1	281.7	Horizontal	PASS
1094.763	-52.02	-13.0	39.0	305.2	Horizontal	PASS
1608.479	-49.88	-13.0	36.9	83.0	Horizontal	PASS
1837.905	-50.18	-13.0	37.2	101.2	Horizontal	PASS
1932.668	-41.92	-13.0	28.9	239.0	Horizontal	PASS
19109.726	-43.53	-13.0	30.5	240.5	Horizontal	PASS

(Plot L.1: HSPA+ 1900 MHz Channel = 9262, Test Antenna Horizontal)



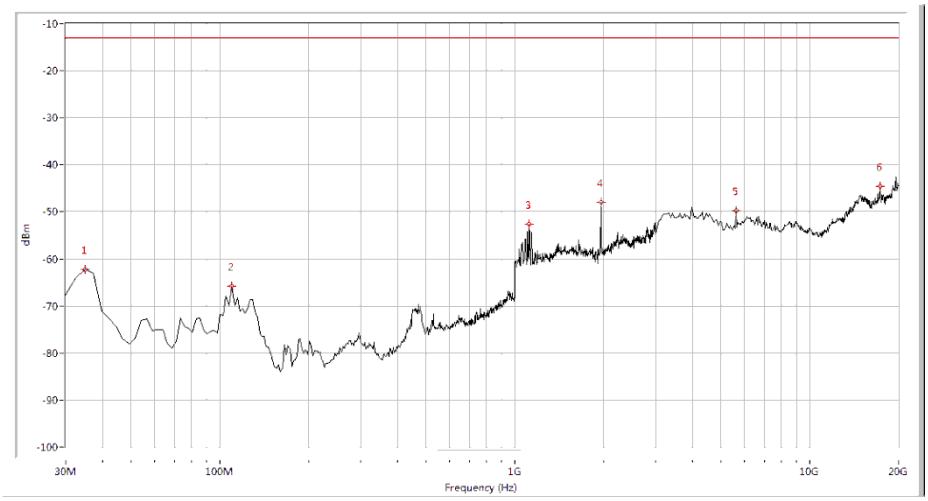
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-65.51	-13.0	52.5	73.0	Vertical	PASS
1119.701	-49.19	-13.0	36.2	341.6	Vertical	PASS
1837.905	-45.21	-13.0	32.2	31.7	Vertical	PASS
1932.668	-44.55	-13.0	31.6	243.0	Vertical	PASS
3720.698	-48.44	-13.0	35.4	324.2	Vertical	PASS
14743.142	-45.81	-13.0	32.8	41.6	Vertical	PASS

(Plot L.2: HSPA+ 1900 MHz Channel = 9262, Test Antenna Vertical)



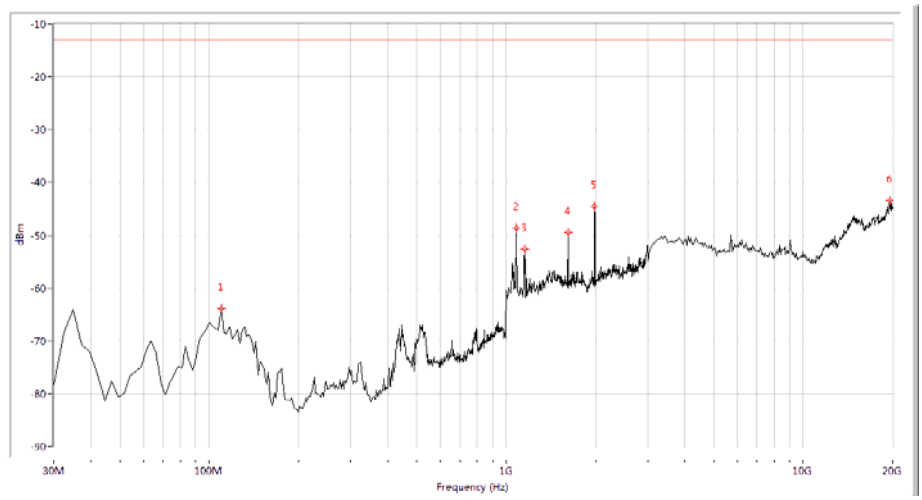
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-64.45	-13.0	51.4	340.8	Horizontal	PASS
1079.800	-48.48	-13.0	35.5	23.8	Horizontal	PASS
1618.454	-53.06	-13.0	40.1	249.8	Horizontal	PASS
1957.606	-42.32	-13.0	29.3	158.2	Horizontal	PASS
3423.940	-49.67	-13.0	36.7	289.1	Horizontal	PASS
19533.666	-43.86	-13.0	30.9	317.1	Horizontal	PASS

(Plot L.3: HSPA+ 1900 MHz Channel = 9400, Test Antenna Horizontal)



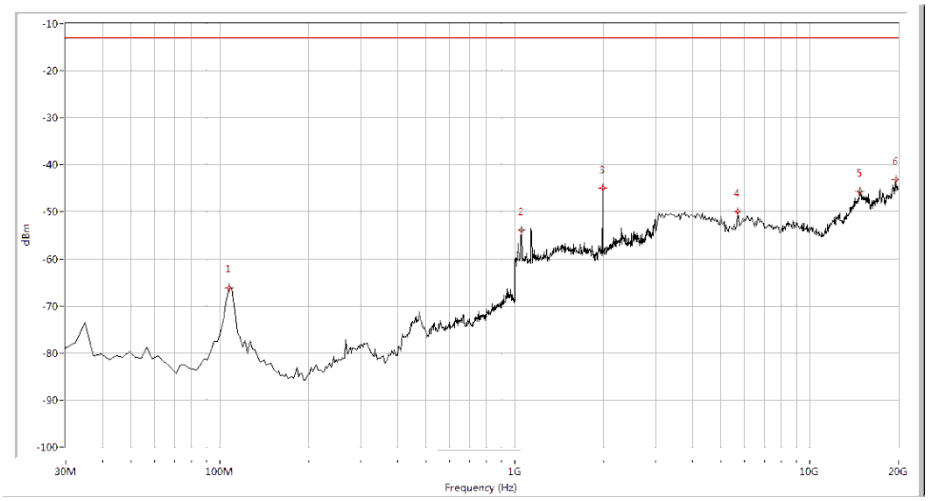
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-62.17	-13.0	49.2	24.2	Vertical	PASS
109.825	-65.76	-13.0	52.8	352.9	Vertical	PASS
1119.701	-52.53	-13.0	39.5	20.9	Vertical	PASS
1957.606	-47.94	-13.0	34.9	128.8	Vertical	PASS
5628.429	-49.83	-13.0	36.8	291.0	Vertical	PASS
17286.783	-44.54	-13.0	31.5	360.0	Vertical	PASS

(Plot L.4: HSPA+ 1900 MHz Channel = 9400, Test Antenna Vertical)



Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-63.91	-13.0	50.9	72.6	Horizontal	PASS
1079.800	-48.62	-13.0	35.6	19.3	Horizontal	PASS
1154.613	-52.58	-13.0	39.6	358.3	Horizontal	PASS
1618.454	-49.42	-13.0	36.4	-0.0	Horizontal	PASS
1982.544	-44.53	-13.0	31.5	201.0	Horizontal	PASS
19576.060	-43.45	-13.0	30.4	360.0	Horizontal	PASS

(Plot L.5: HSPA+ 1900 MHz Channel = 9538, Test Antenna Horizontal)



Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
107.406	-66.15	-13.0	53.2	24.2	Vertical	PASS
1054.863	-53.78	-13.0	40.8	317.3	Vertical	PASS
1987.531	-44.85	-13.0	31.9	53.6	Vertical	PASS
5713.217	-49.83	-13.0	36.8	247.9	Vertical	PASS
14785.536	-45.69	-13.0	32.7	265.7	Vertical	PASS
19618.454	-43.14	-13.0	30.1	35.7	Vertical	PASS

(Plot L.6: HSPA+ 1900 MHz Channel = 9538, Test Antenna Vertical)

** END OF REPORT **