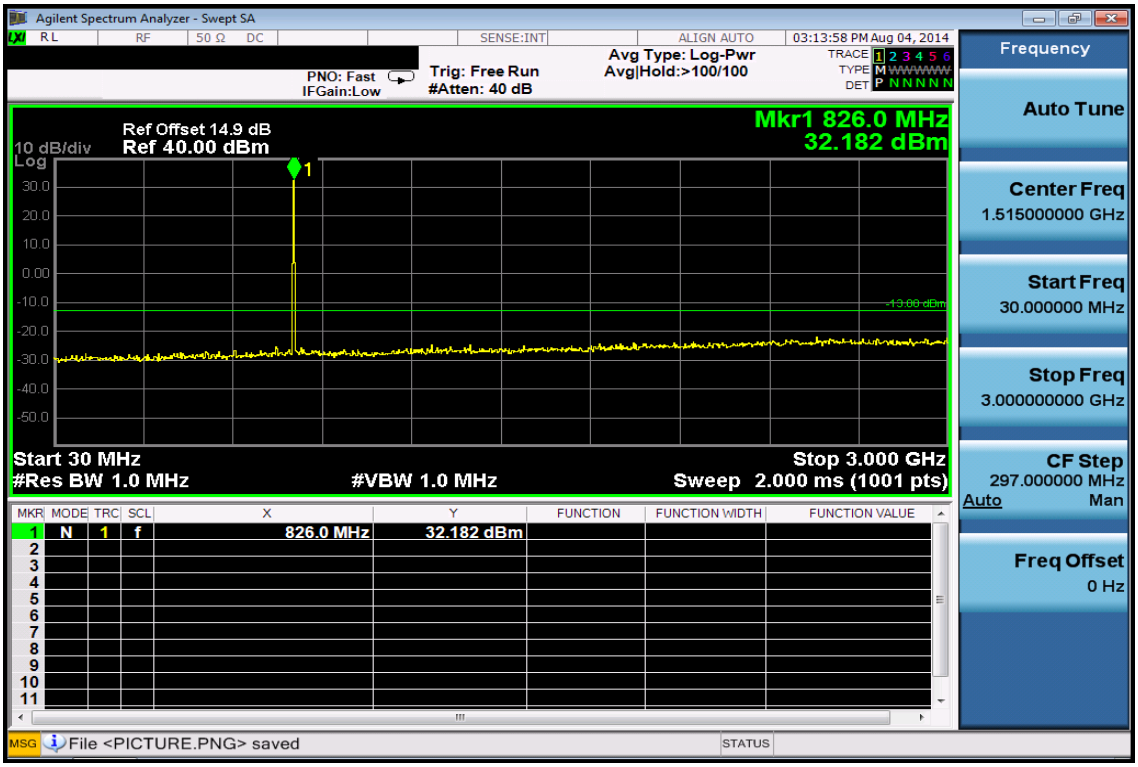
Figure 9-21: Out of Band emission at antenna terminals – EDGE 850 Channel Lowest



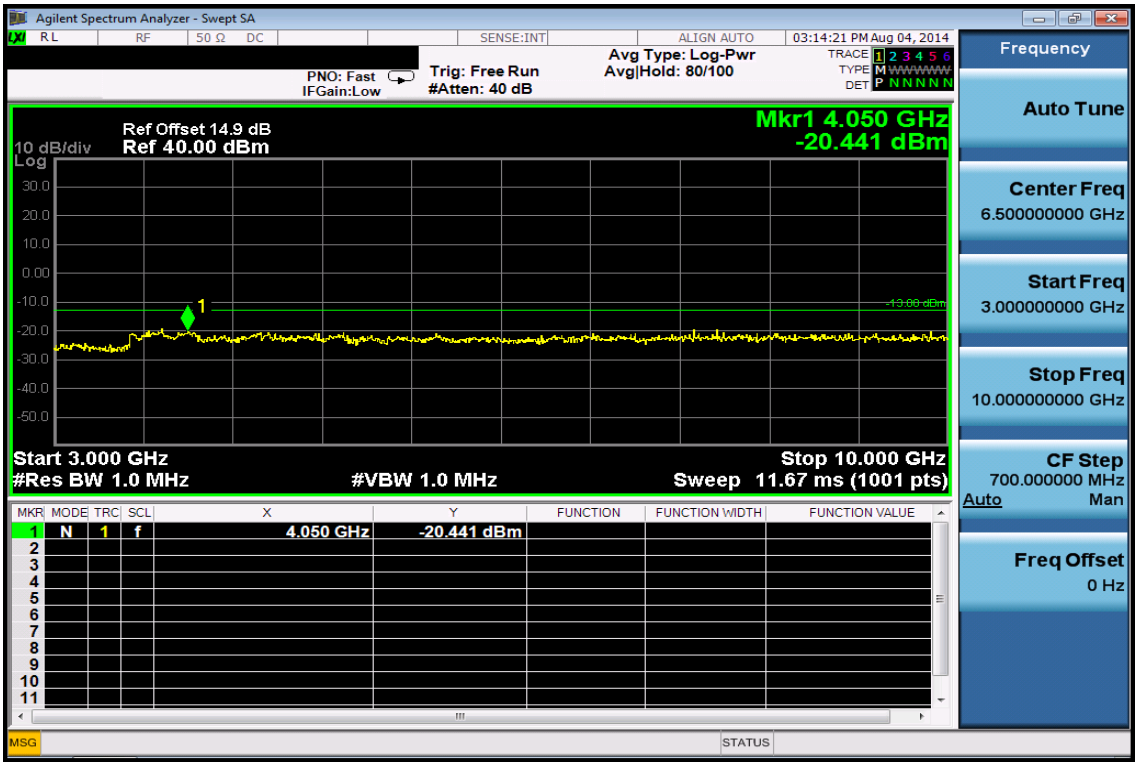


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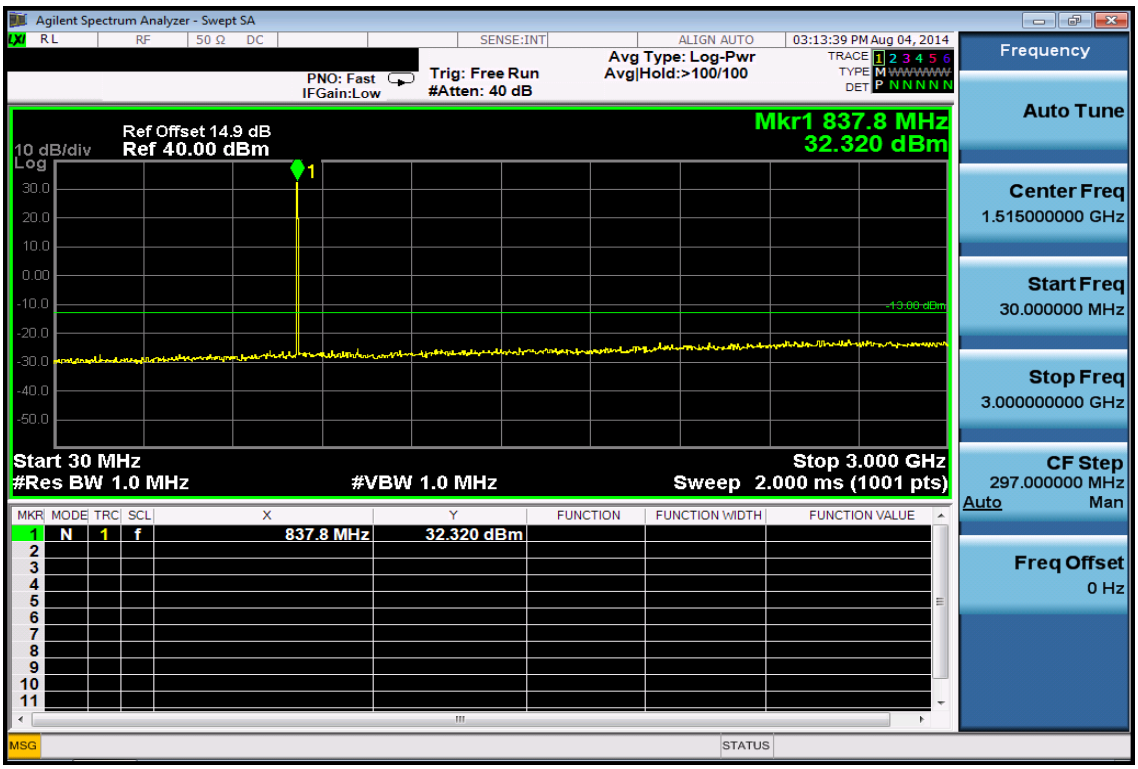
Figure 9-22: Out of Band emission at antenna terminals – EDGE 850 Channel Mid



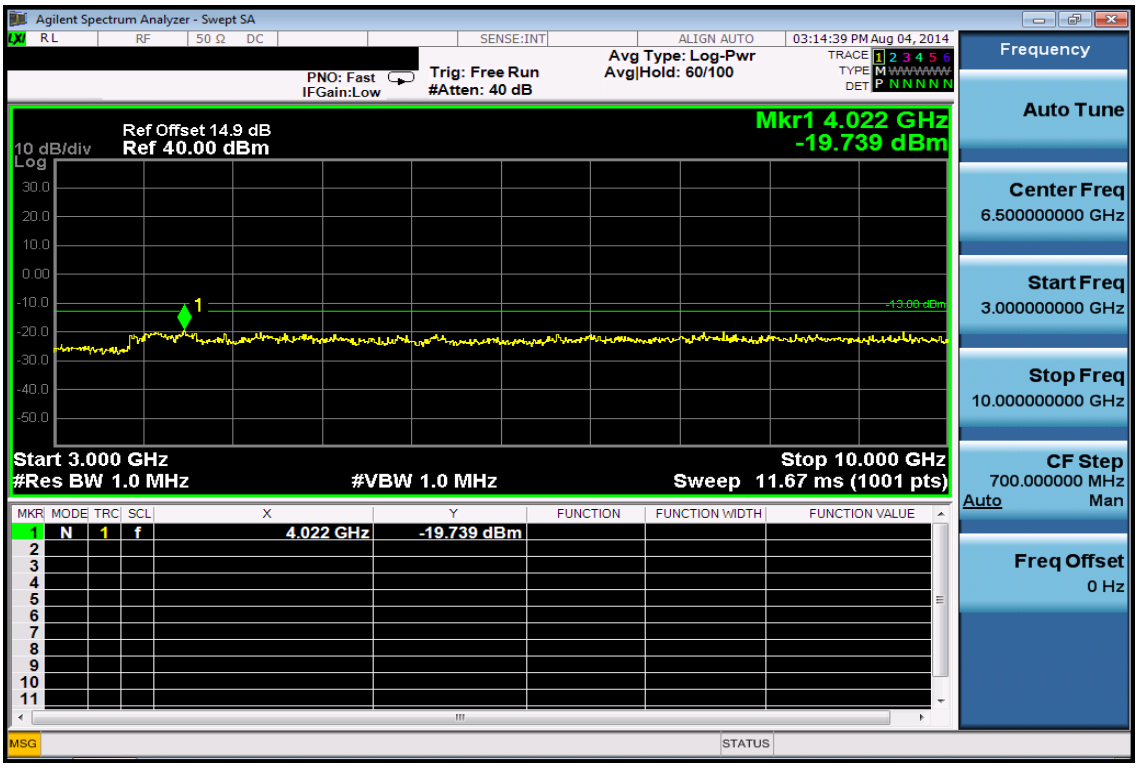


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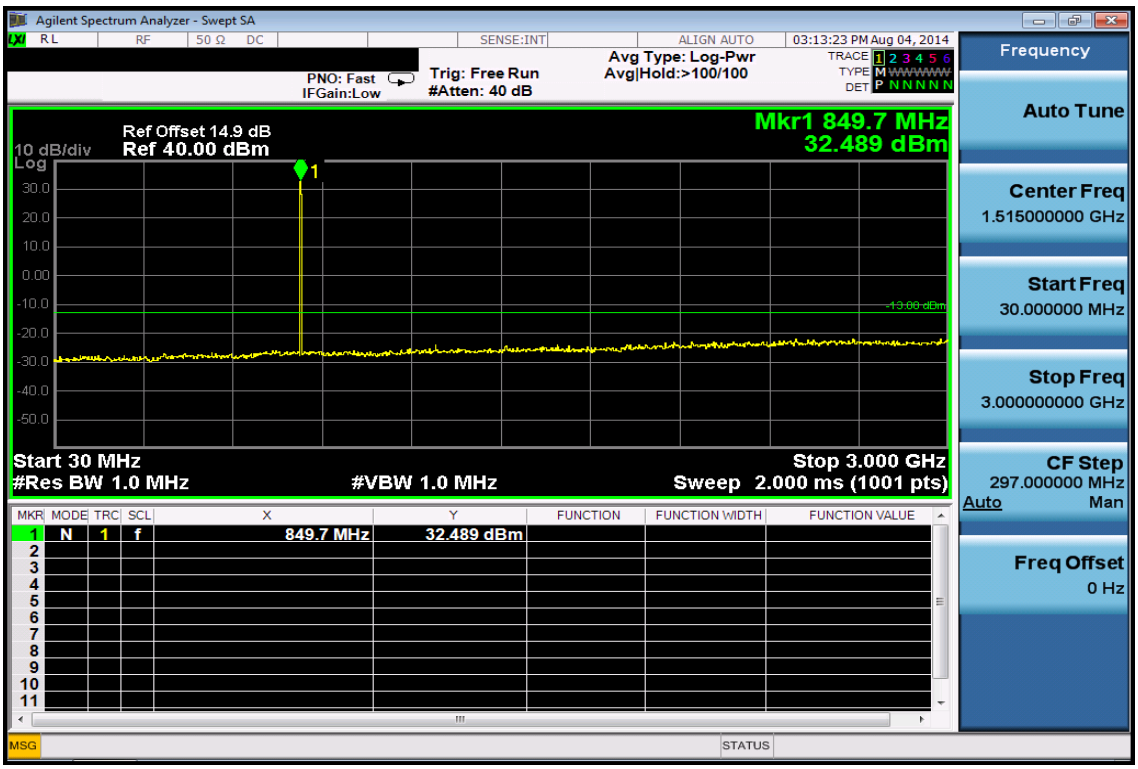
Figure 9-23: Out of Band emission at antenna terminals – EDGE 850 Channel Highest



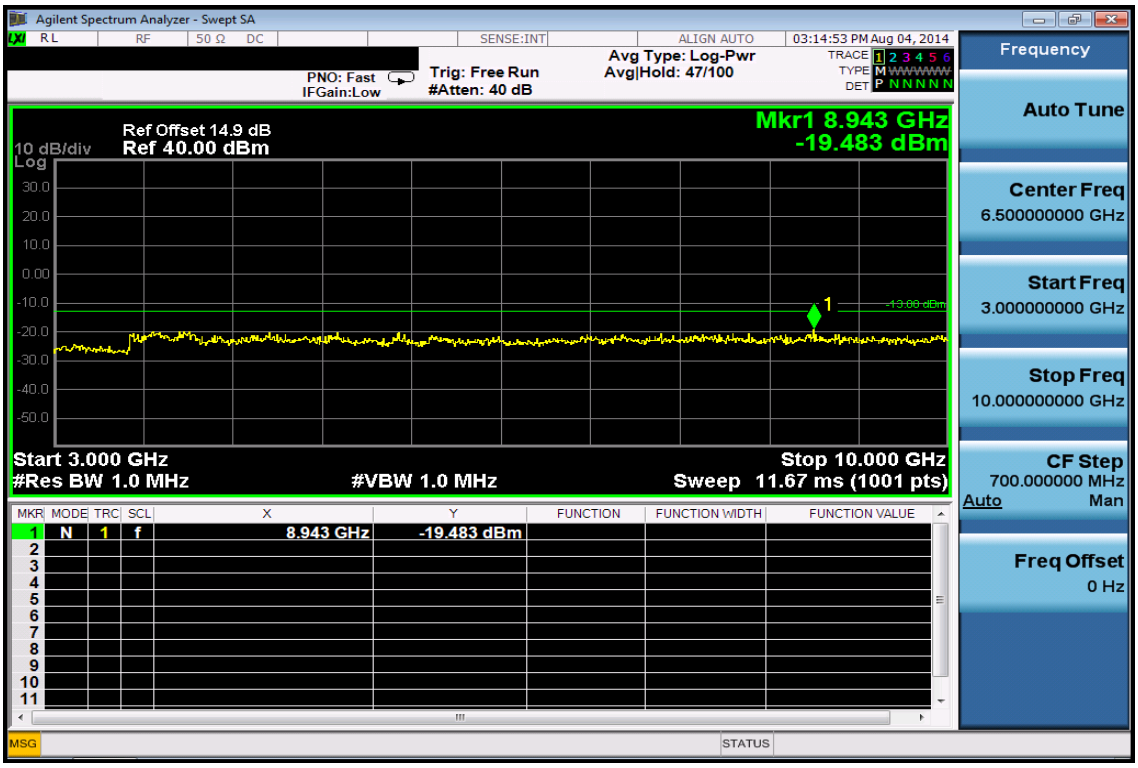


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Figure 9-24: Band edge emission at antenna terminals – EDGE 850 Channel Lowest

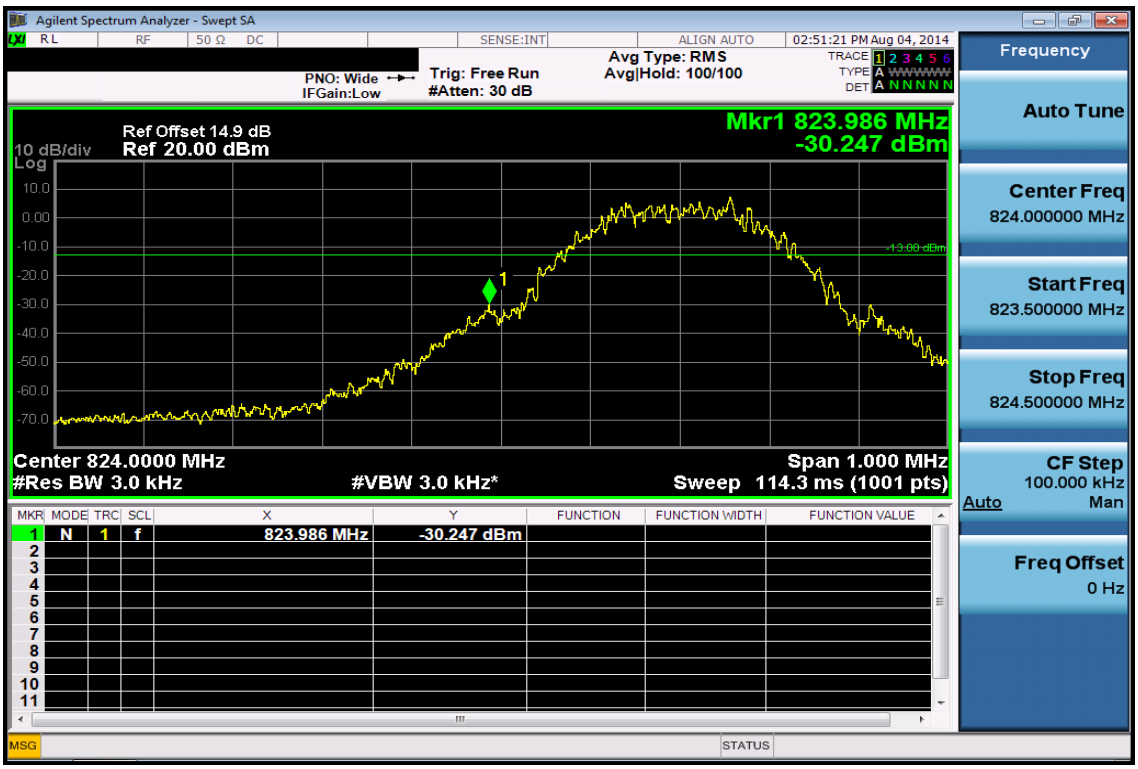

Figure 9-25: Band edge emission at antenna terminals – EDGE 850 Channel Highest

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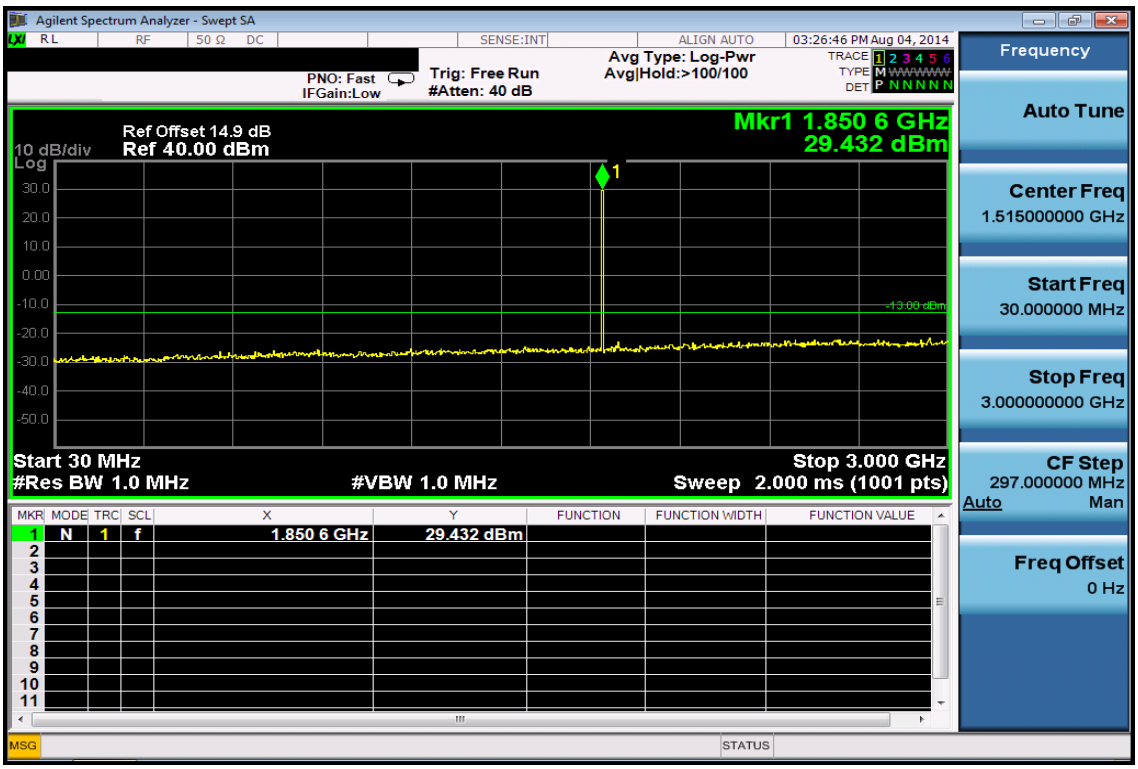
Figure 9-26: Out of Band emission at antenna terminals – EDGE 1900 Channel Lowest



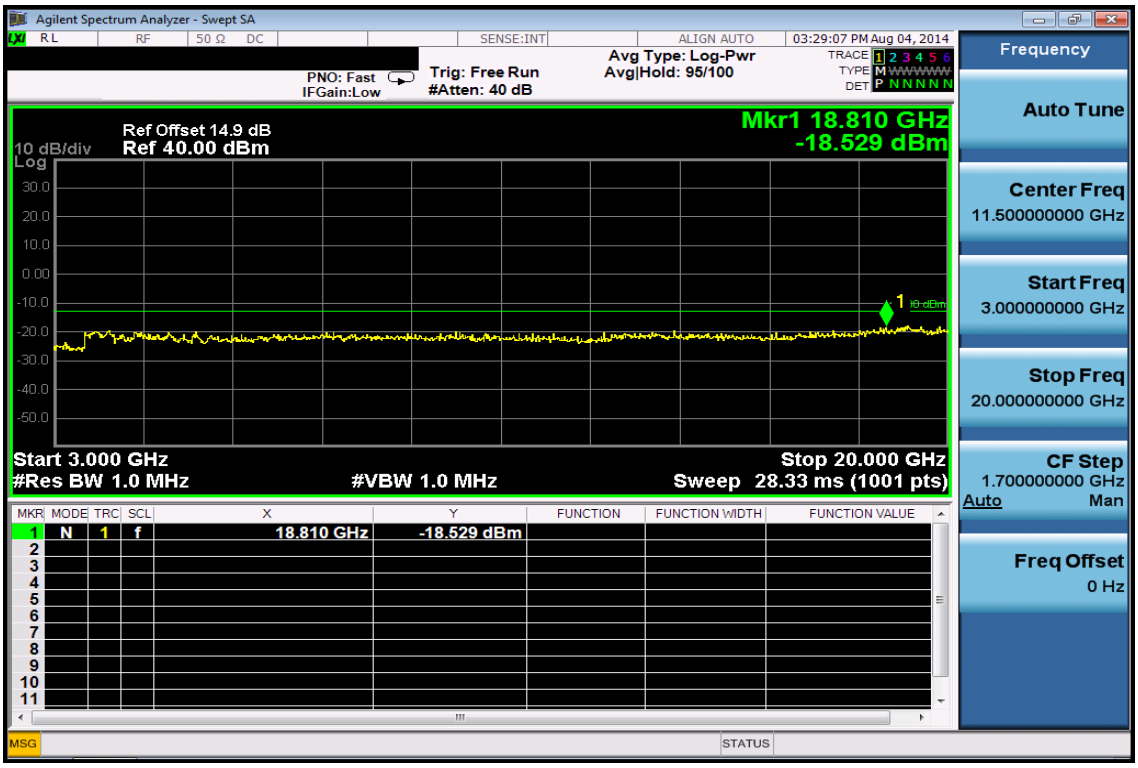


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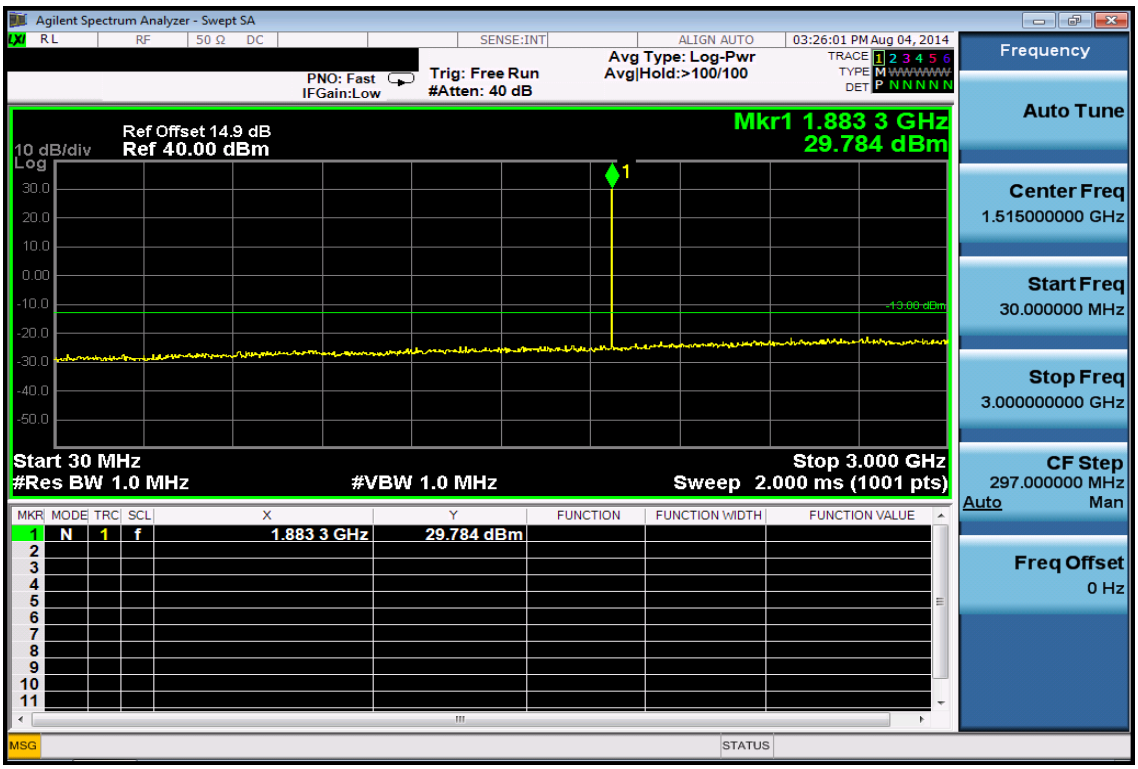
Figure 9-27: Out of Band emission at antenna terminals – EDGE 1900 Channel Mid



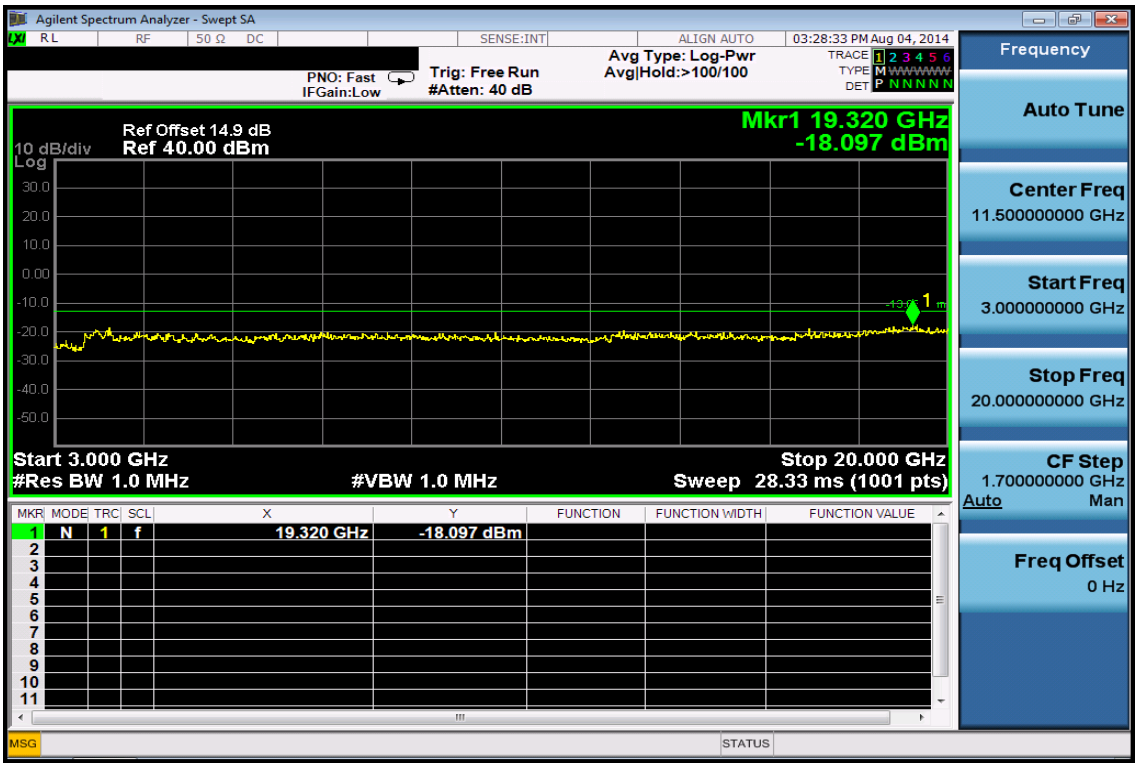


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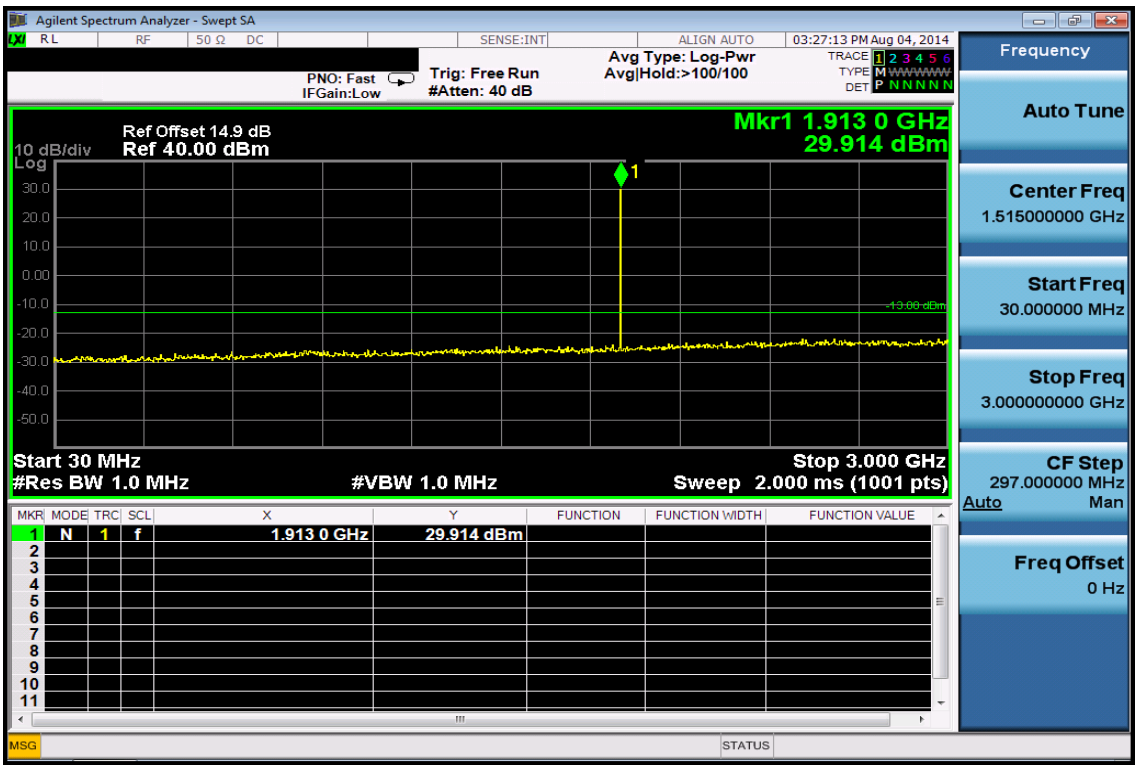
Figure 9-28: Out of Band emission at antenna terminals – EDGE 1900 Channel Highest



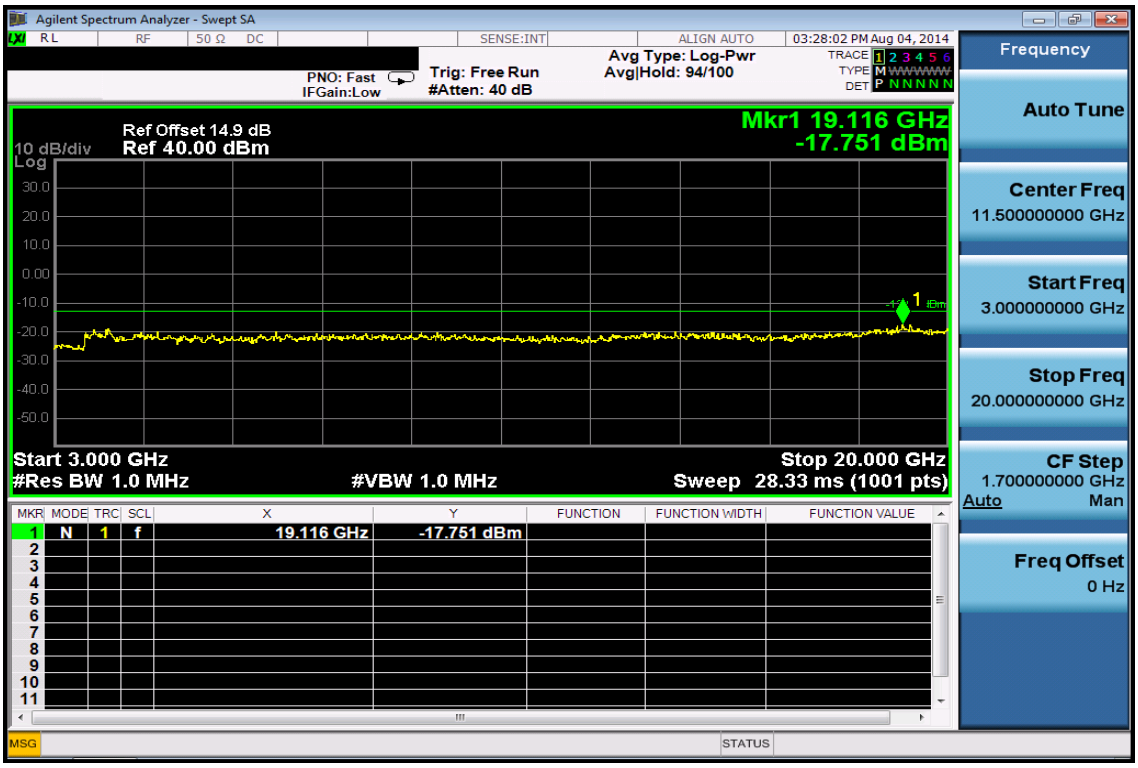


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Figure 9-29: Band edge emission at antenna terminals – EDGE 1900 Channel Lowest

Figure 9-30: Band edge emission at antenna terminals – EDGE 1900 Channel Highest

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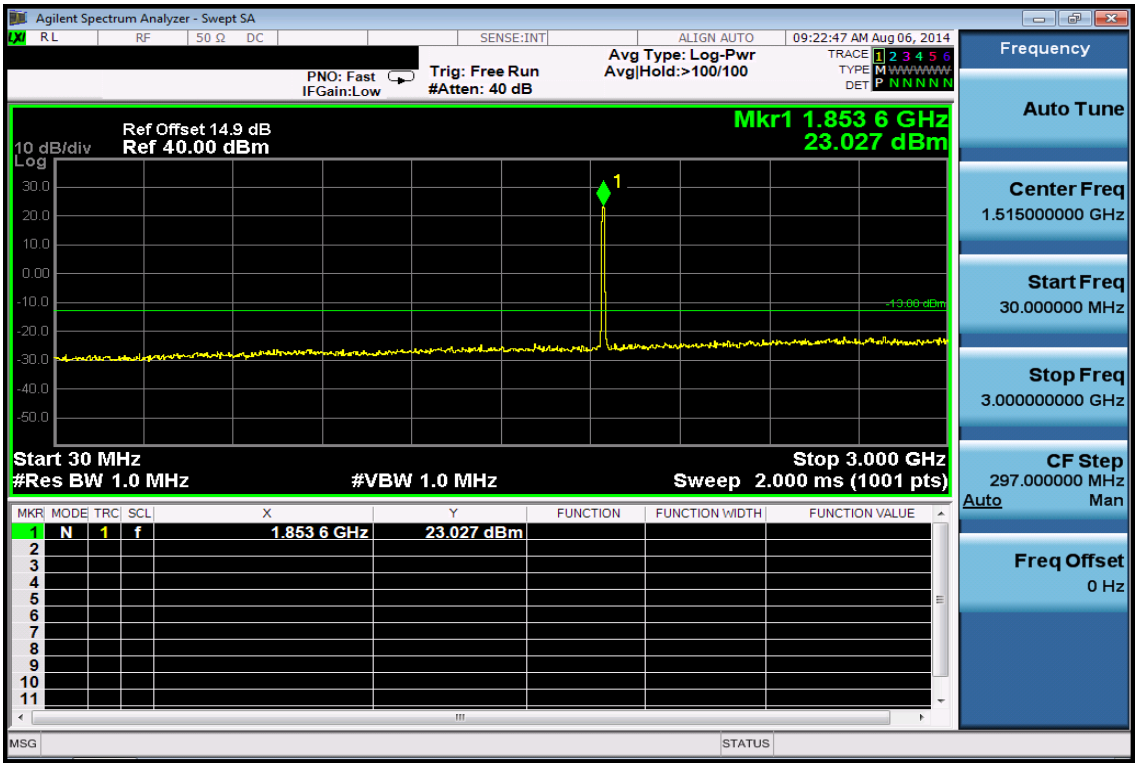
Figure 9-31: Out of Band emission at antenna terminals – WCDMA II Channel Lowest



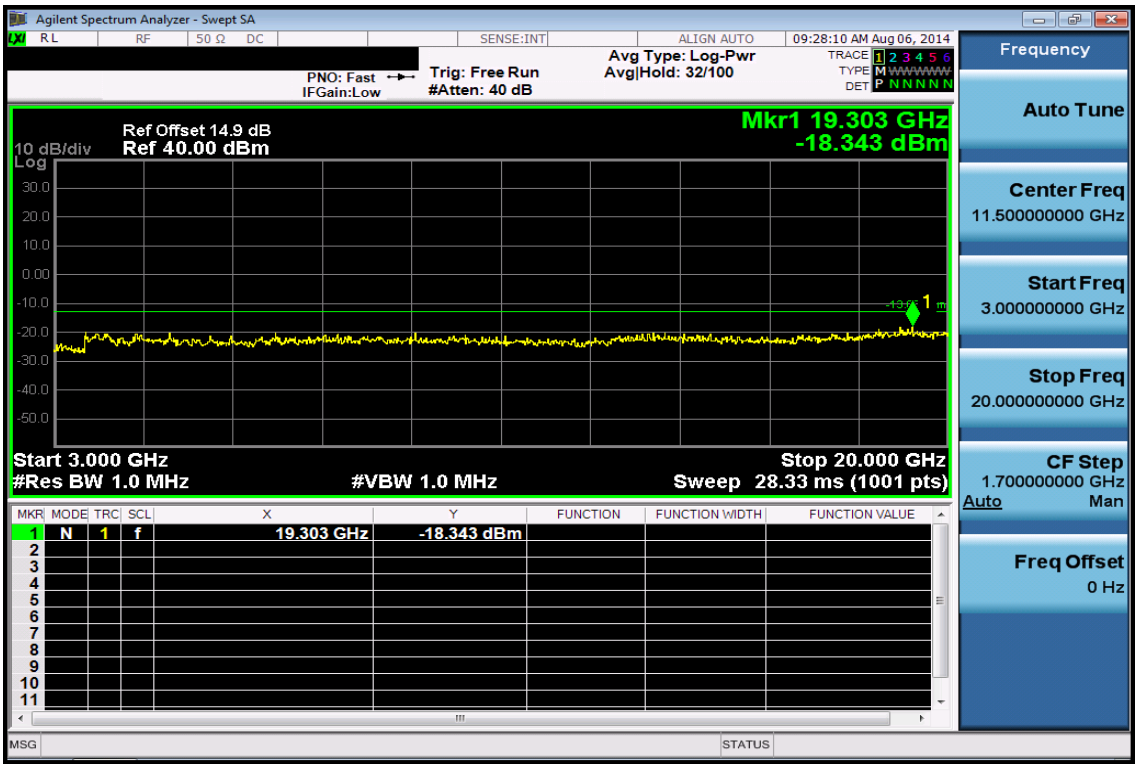


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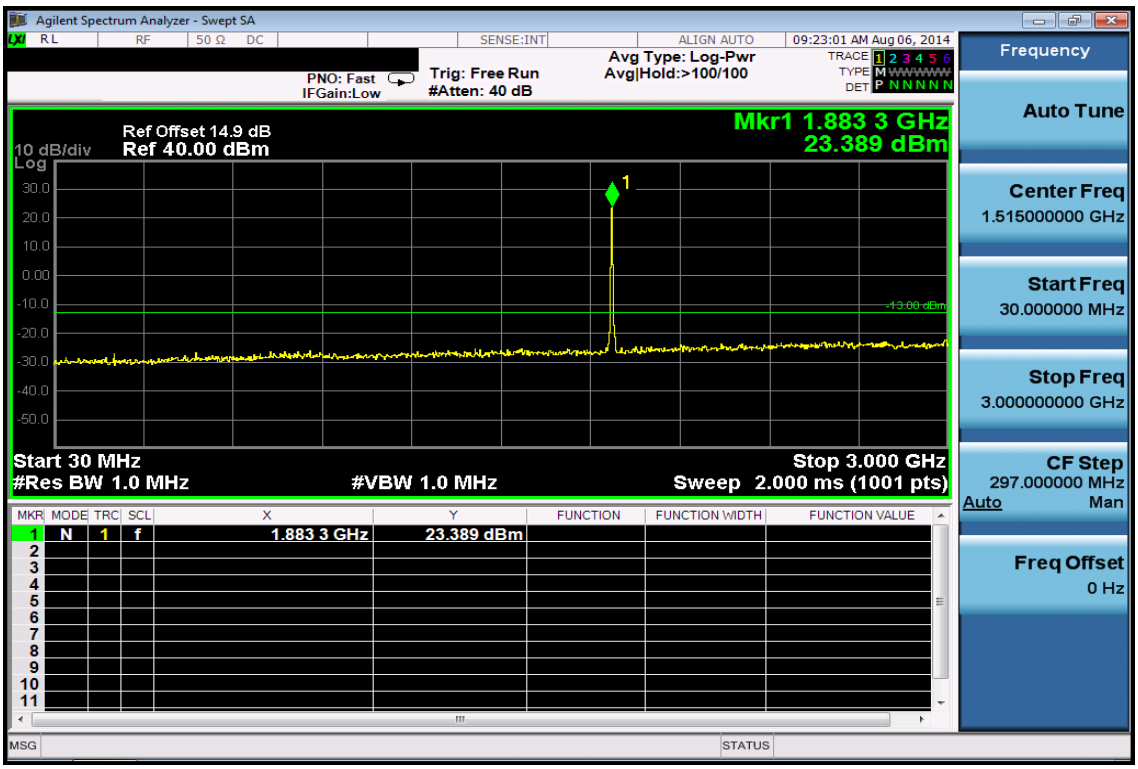
Figure 9-32: Out of Band emission at antenna terminals – WCDMA II Channel Mid



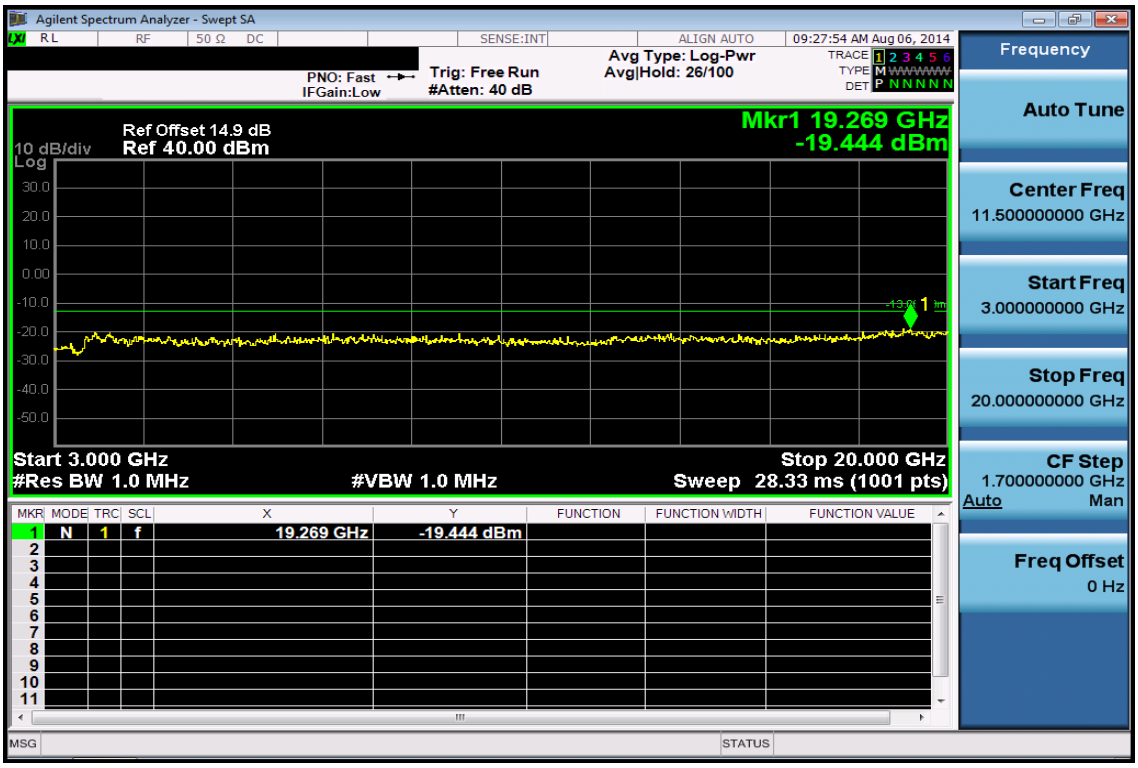


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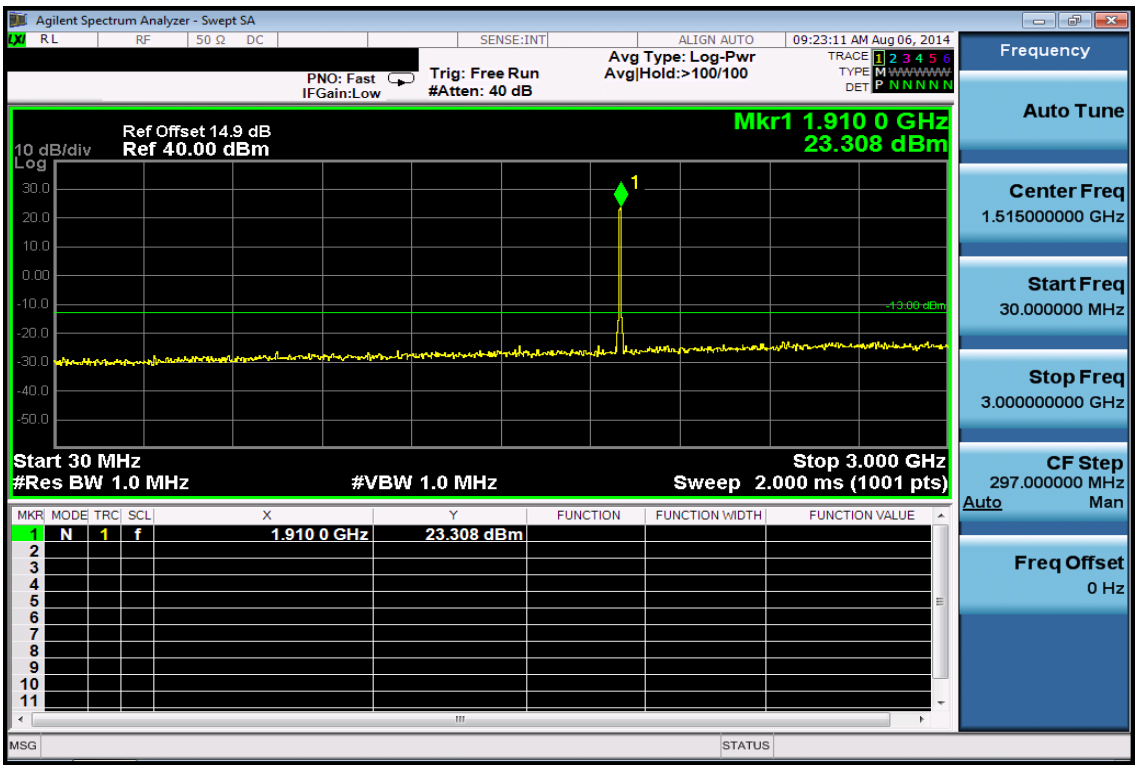
Figure 9-33: Out of Band emission at antenna terminals – WCDMA II Channel Highest



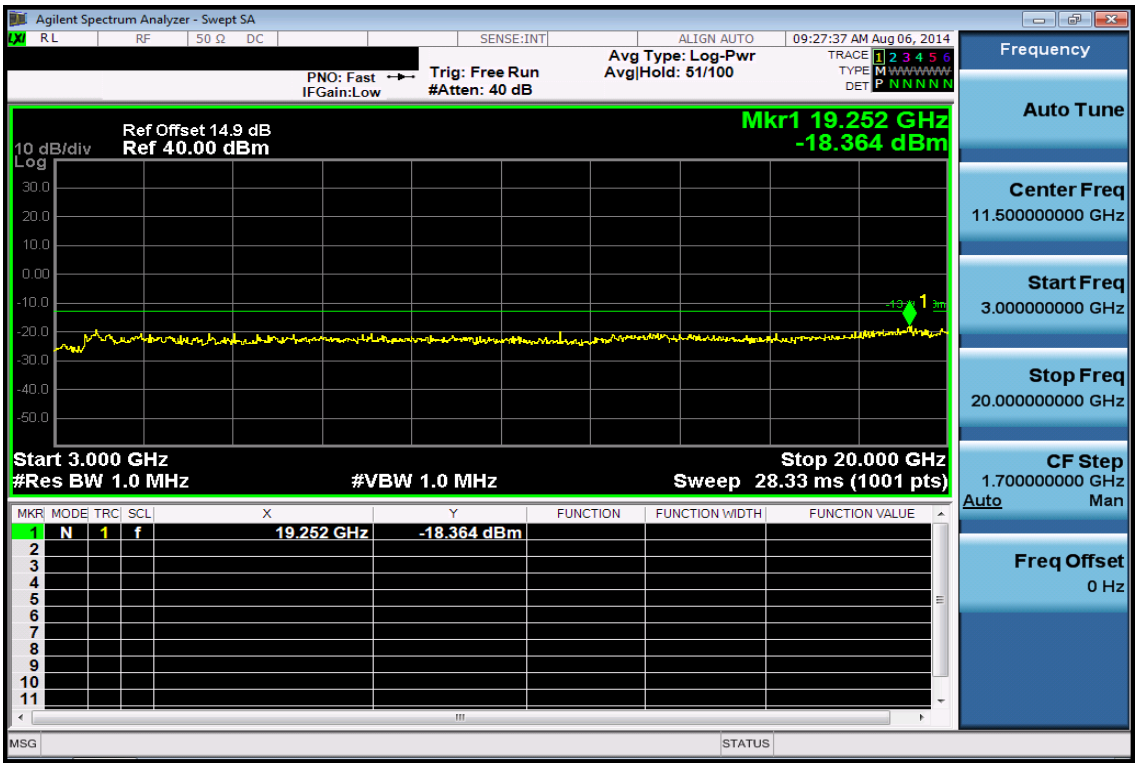


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Figure 9-34: Band edge emission at antenna terminals – WCDMA II Channel Lowest

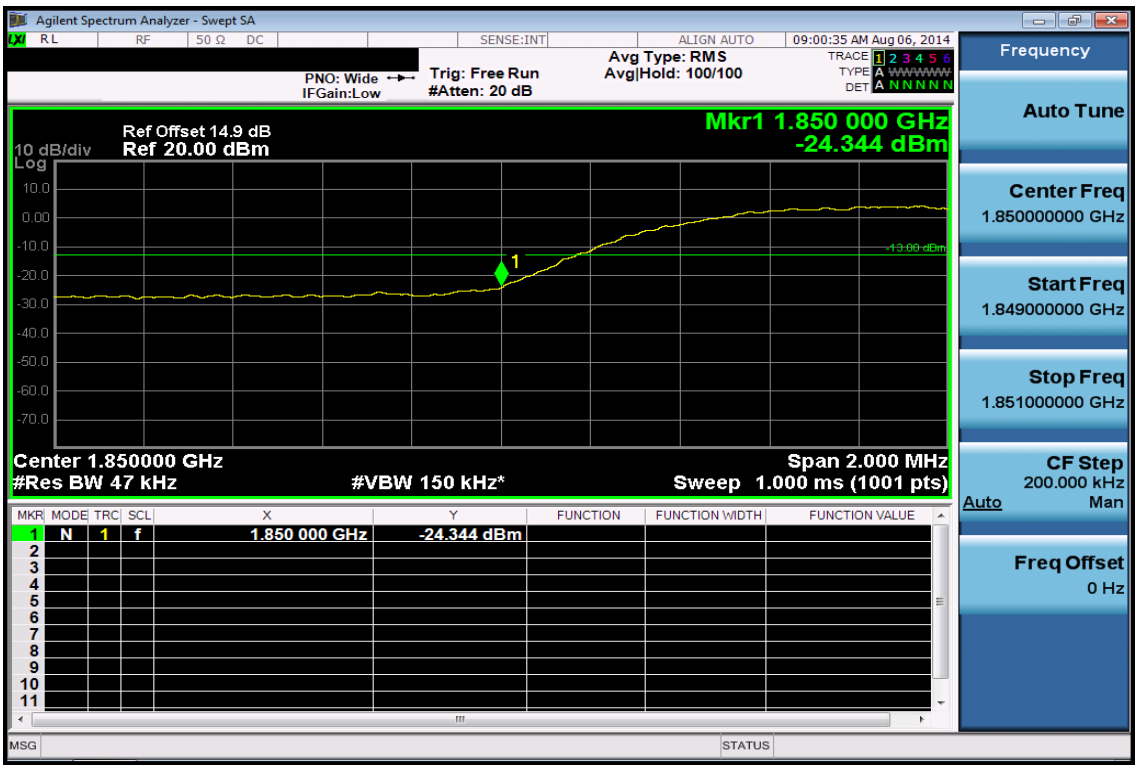

Figure 9-35: Band edge emission at antenna terminals – WCDMA II Channel Highest

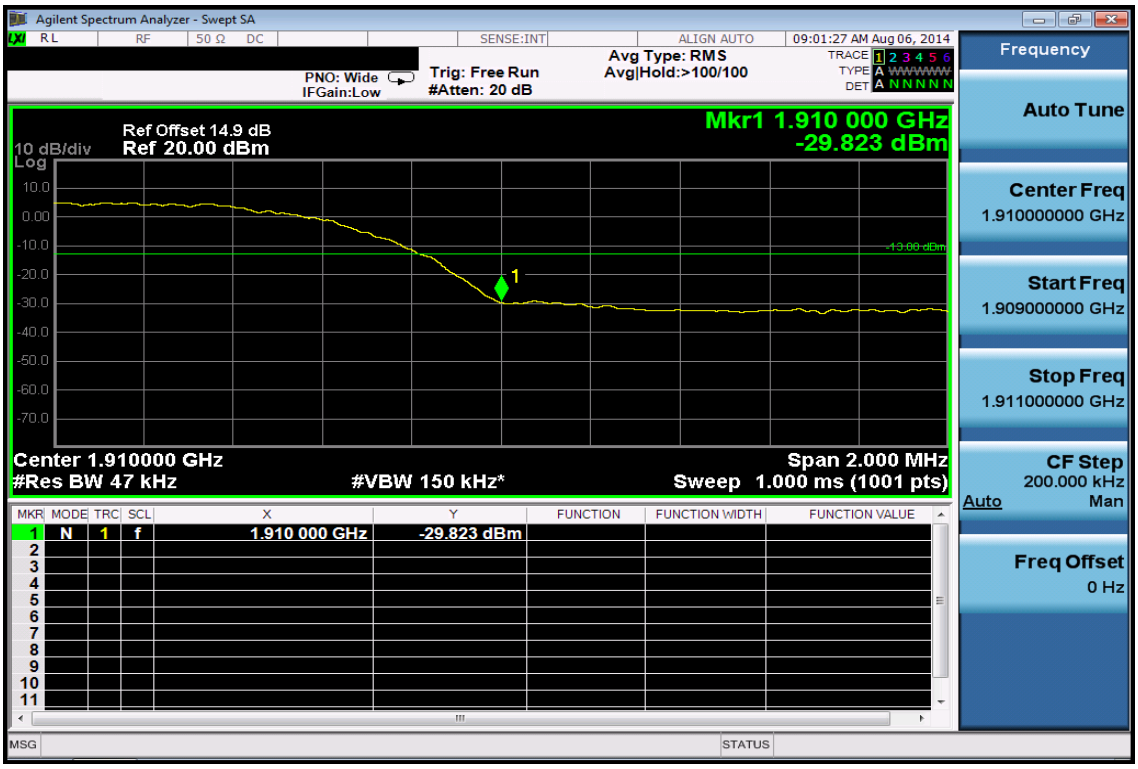

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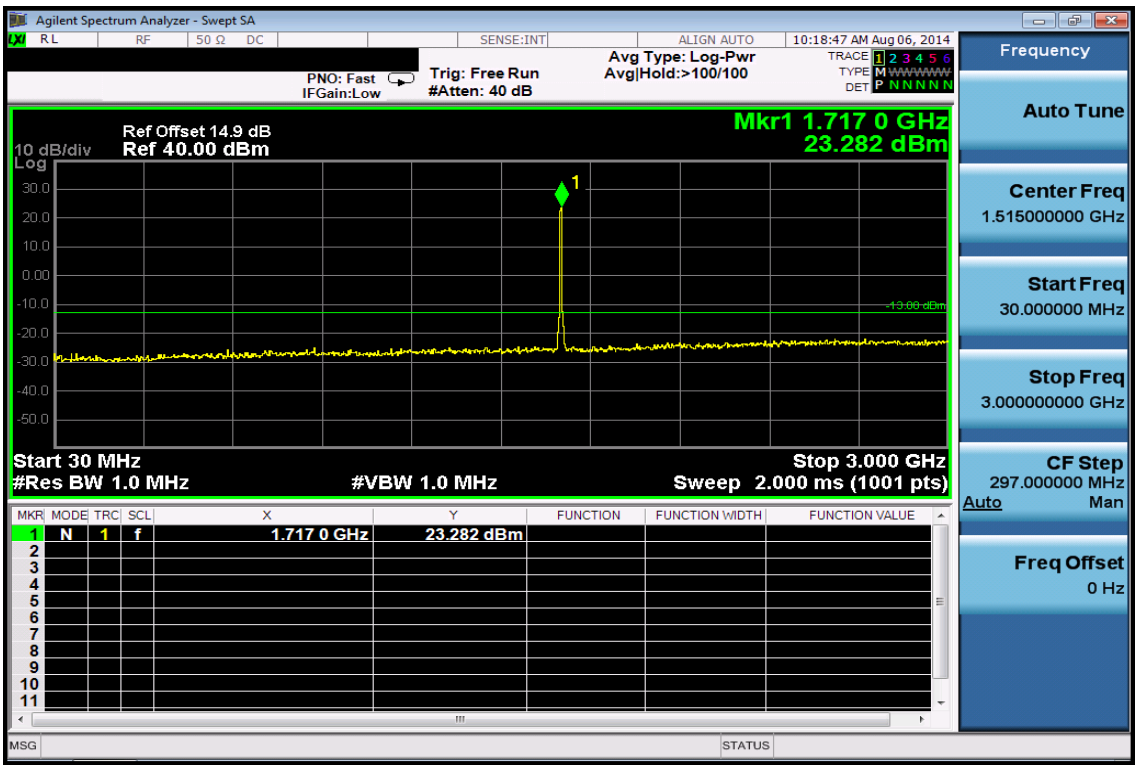
Figure 9-36: Out of Band emission at antenna terminals – WCDMA IV Channel Lowest



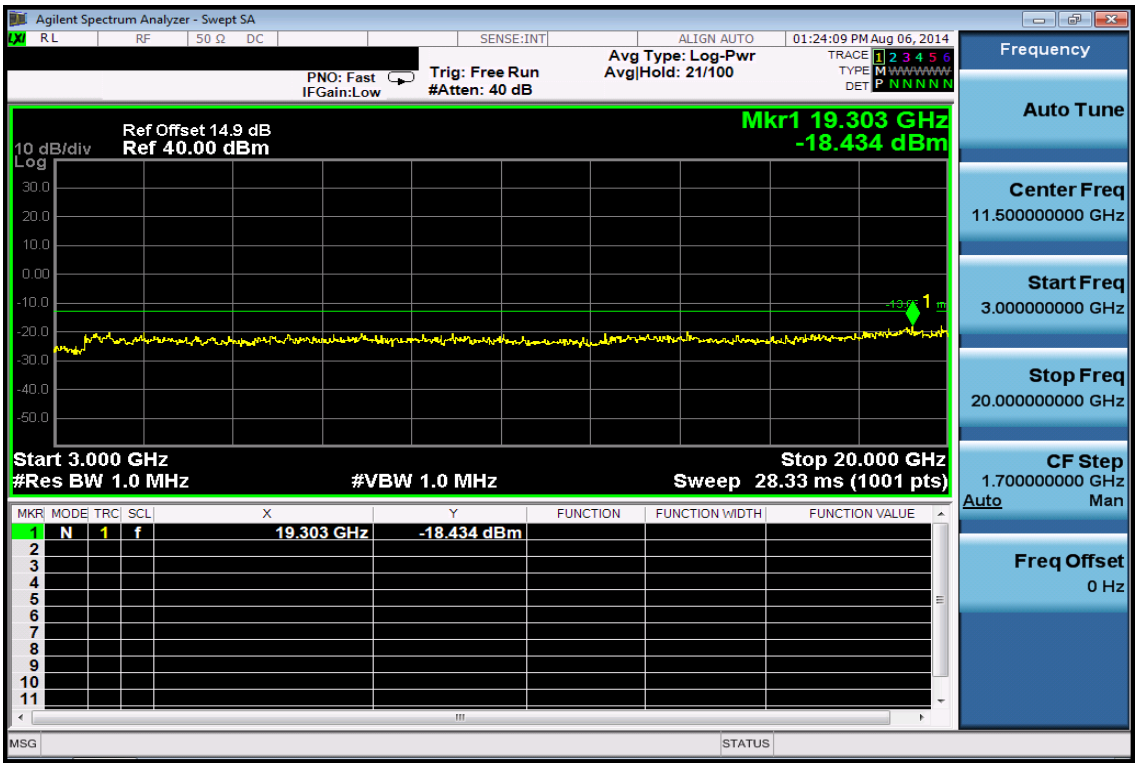


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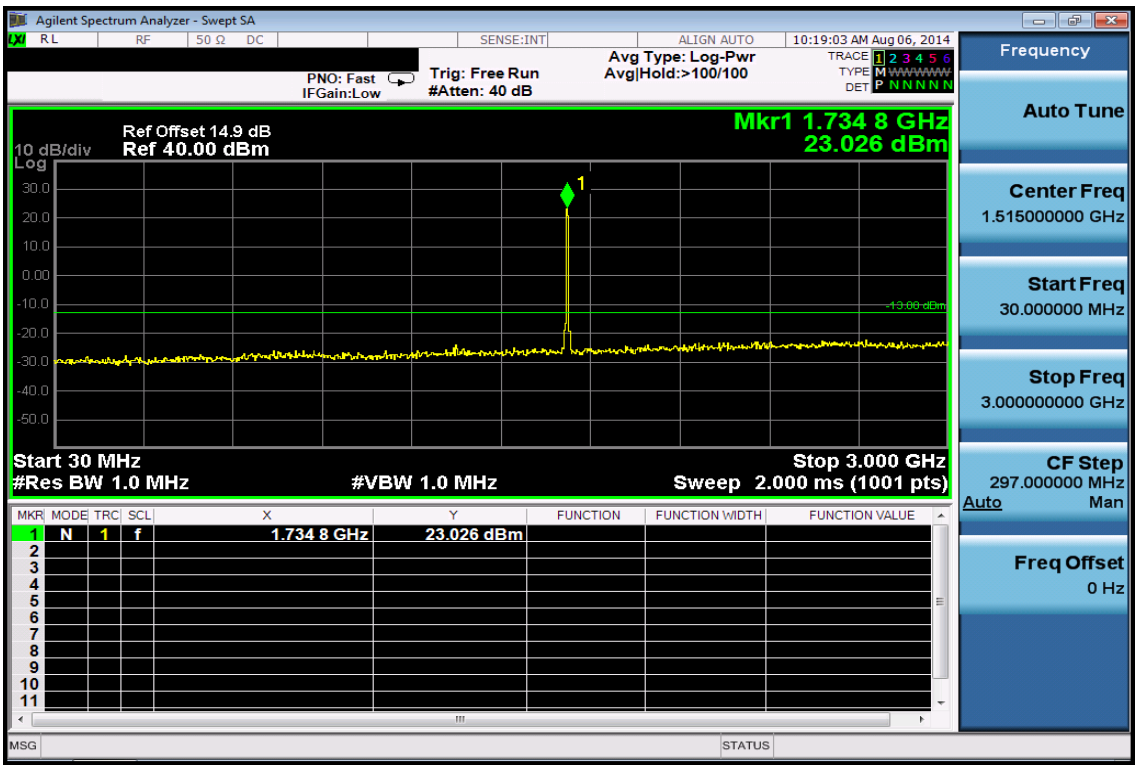
Figure 9-37: Out of Band emission at antenna terminals – WCDMA IV Channel Mid



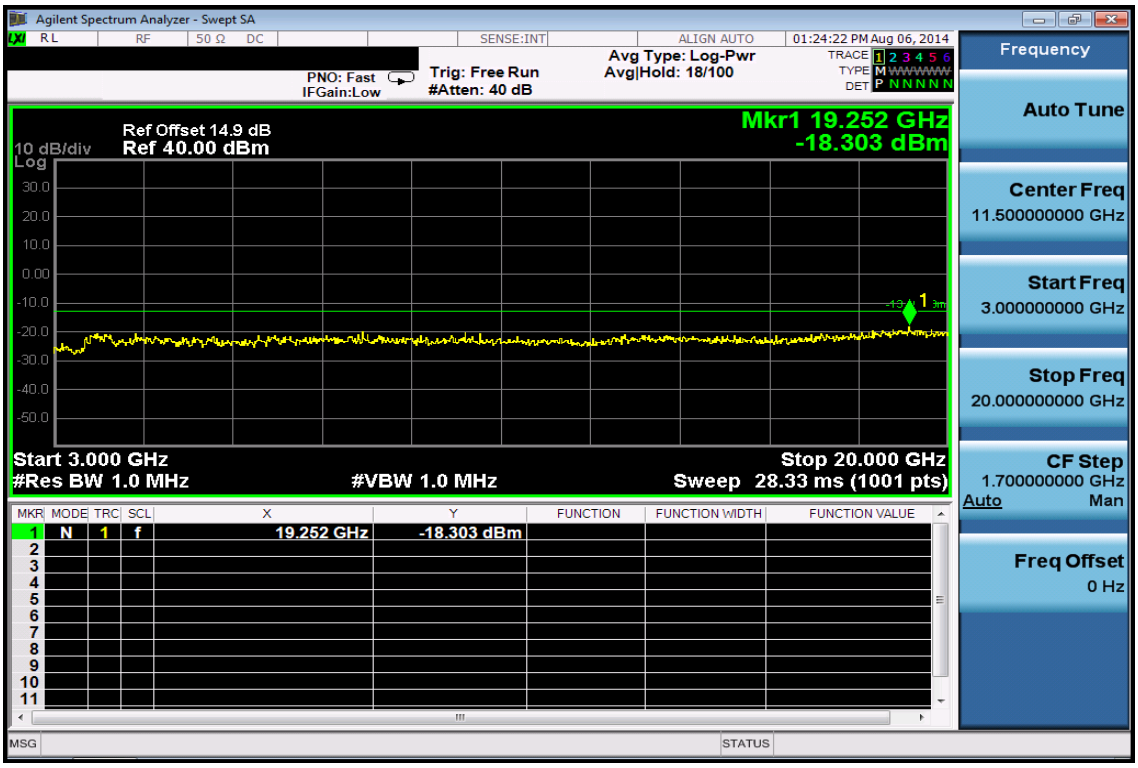


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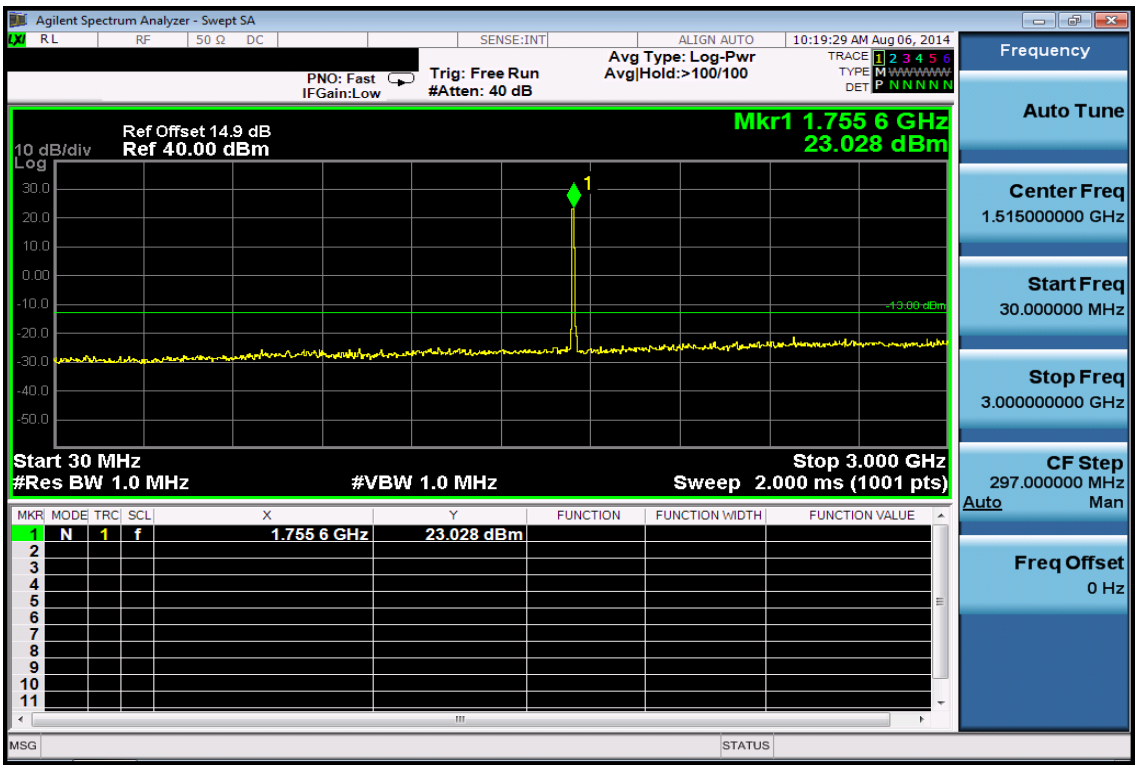
Figure 9-38: Out of Band emission at antenna terminals – WCDMA IV Channel Highest



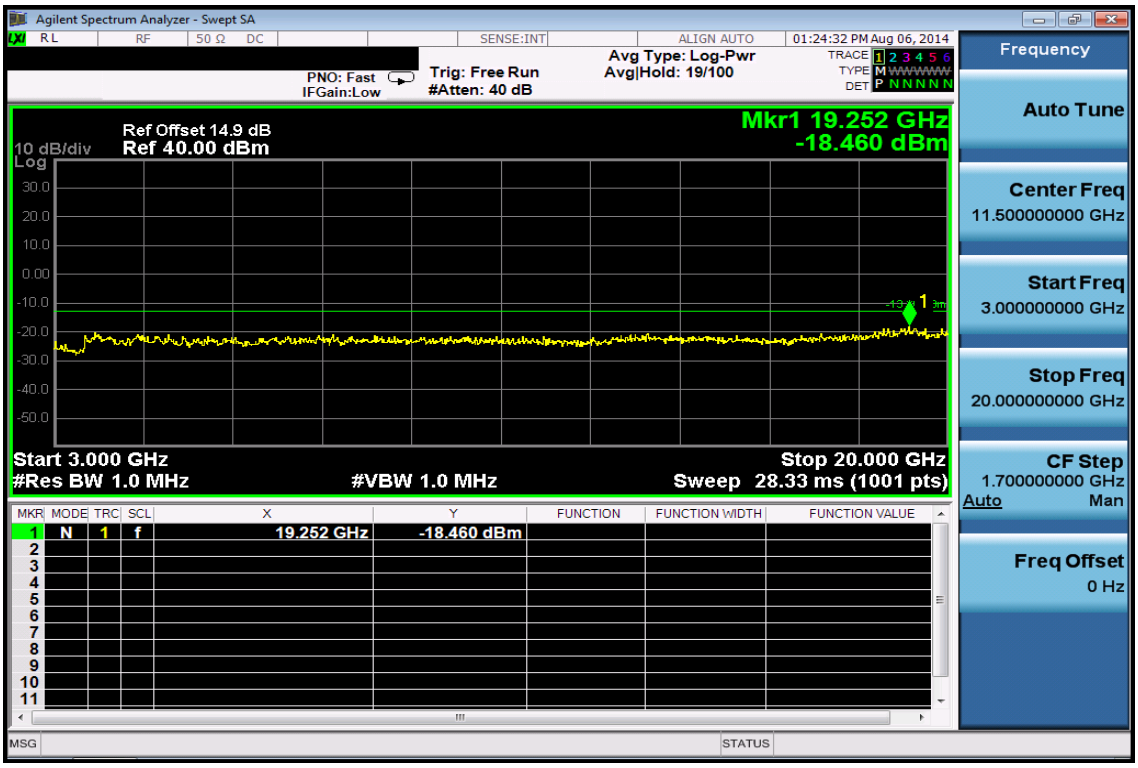


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Figure 9-39: Band edge emission at antenna terminals – WCDMA IV Channel Lowest

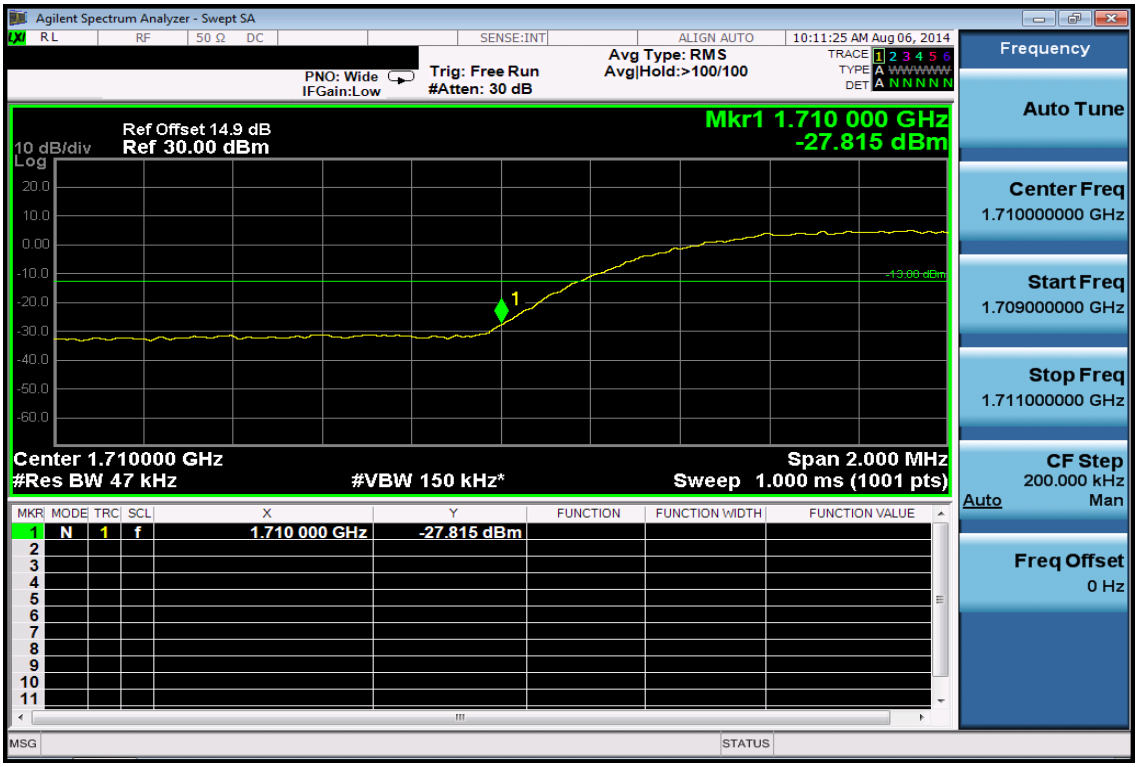

Figure 9-40: Band edge emission at antenna terminals – WCDMA IV Channel Highest

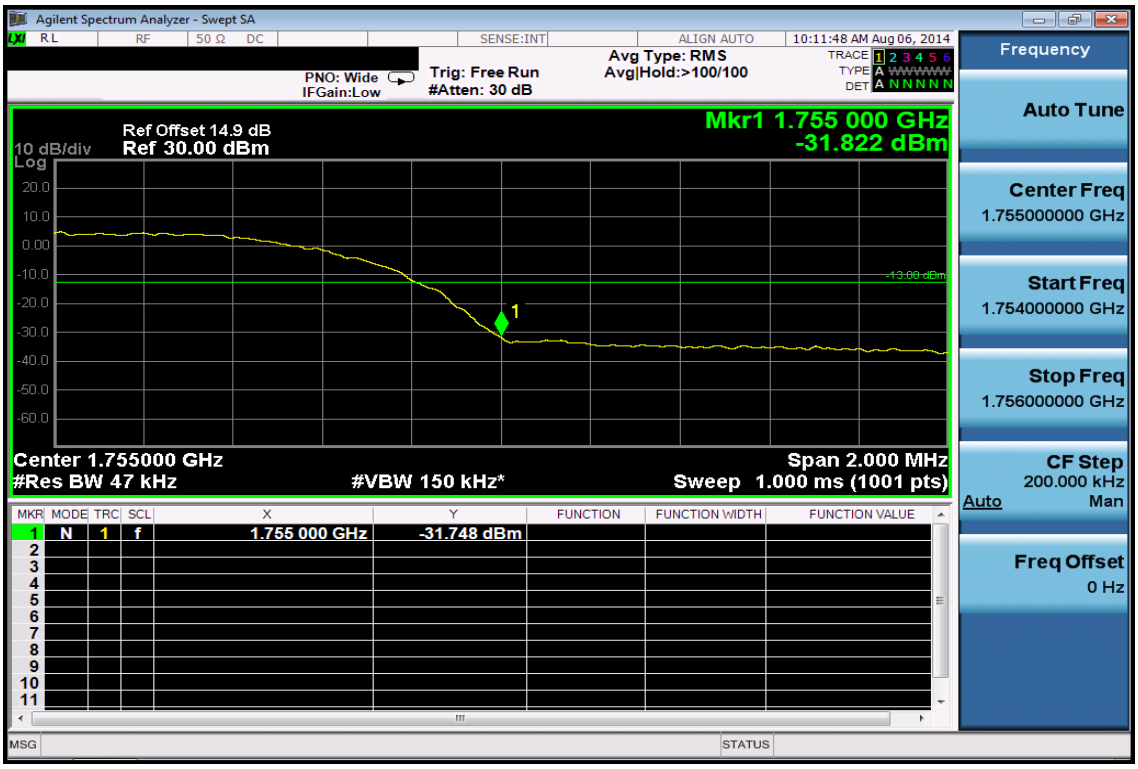

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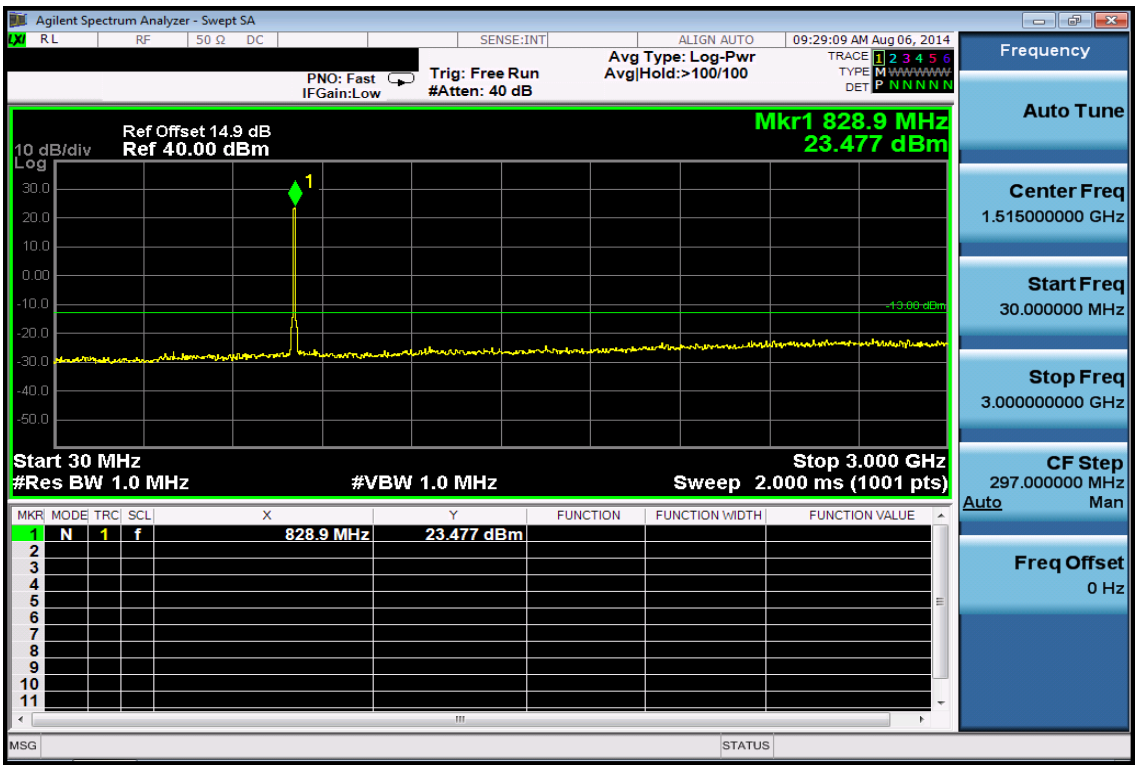
Figure 9-41: Out of Band emission at antenna terminals – WCDMA V Channel Lowest



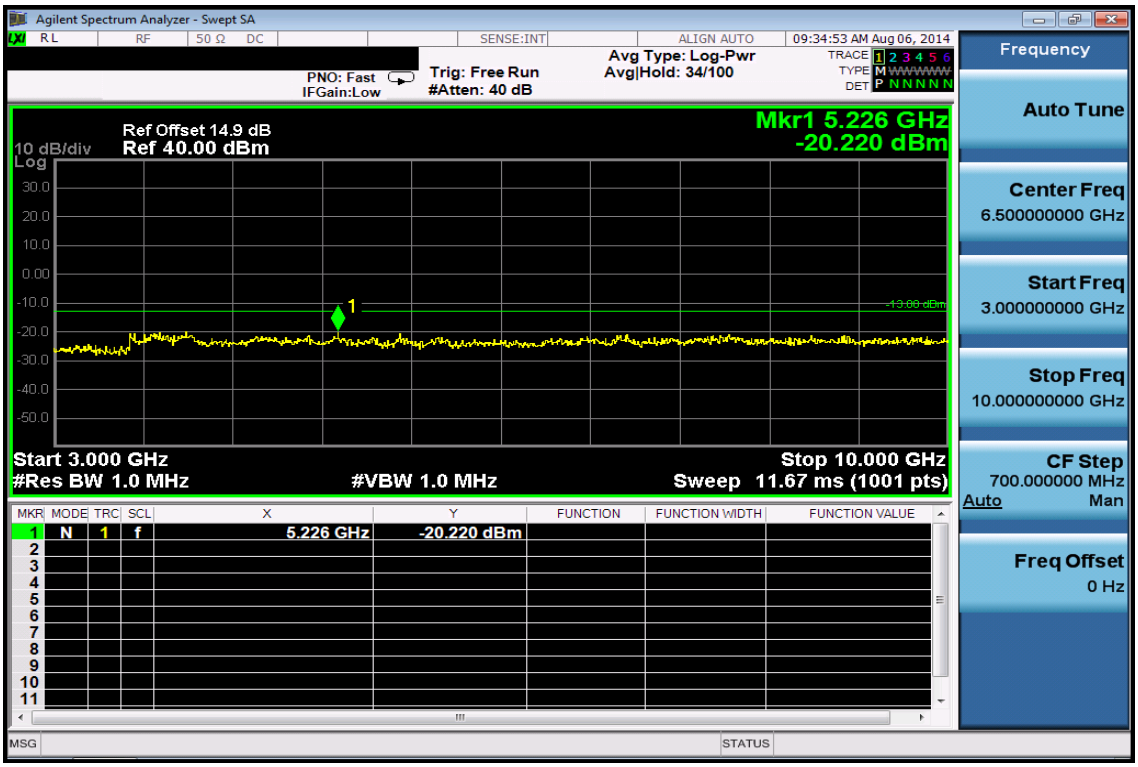


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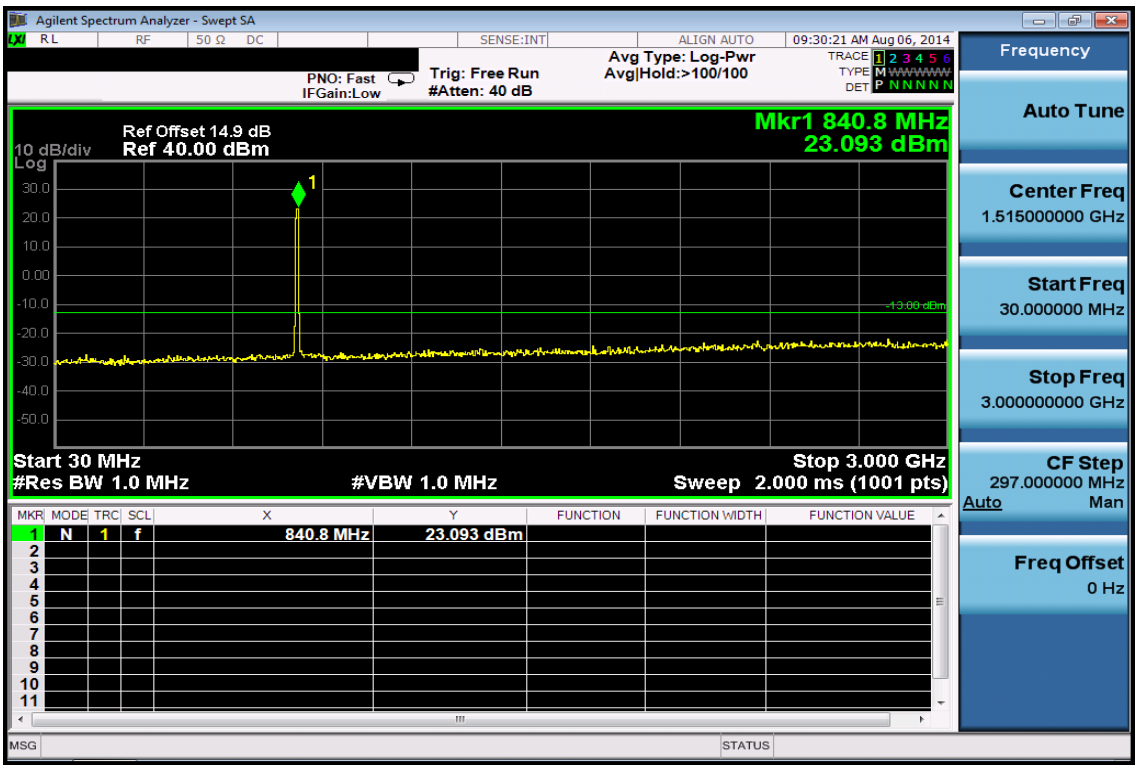
Figure 9-42: Out of Band emission at antenna terminals – WCDMA V Channel Mid



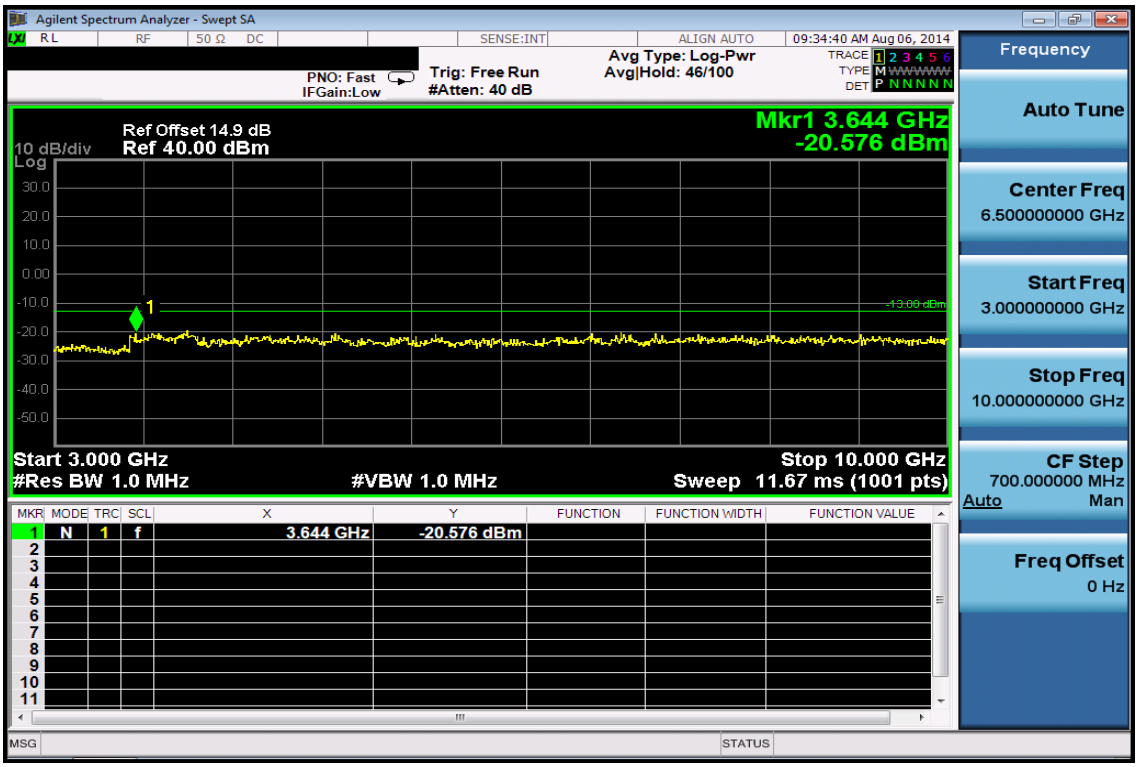


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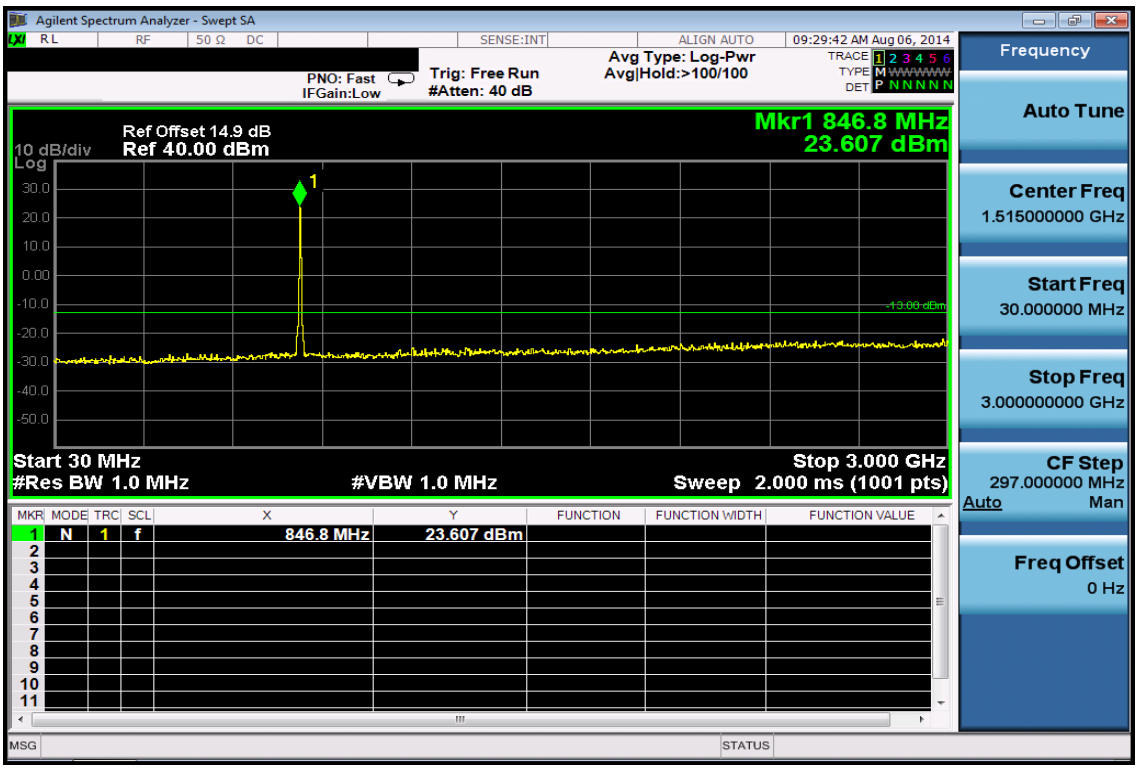
Figure 9-43: Out of Band emission at antenna terminals – WCDMA V Channel Highest



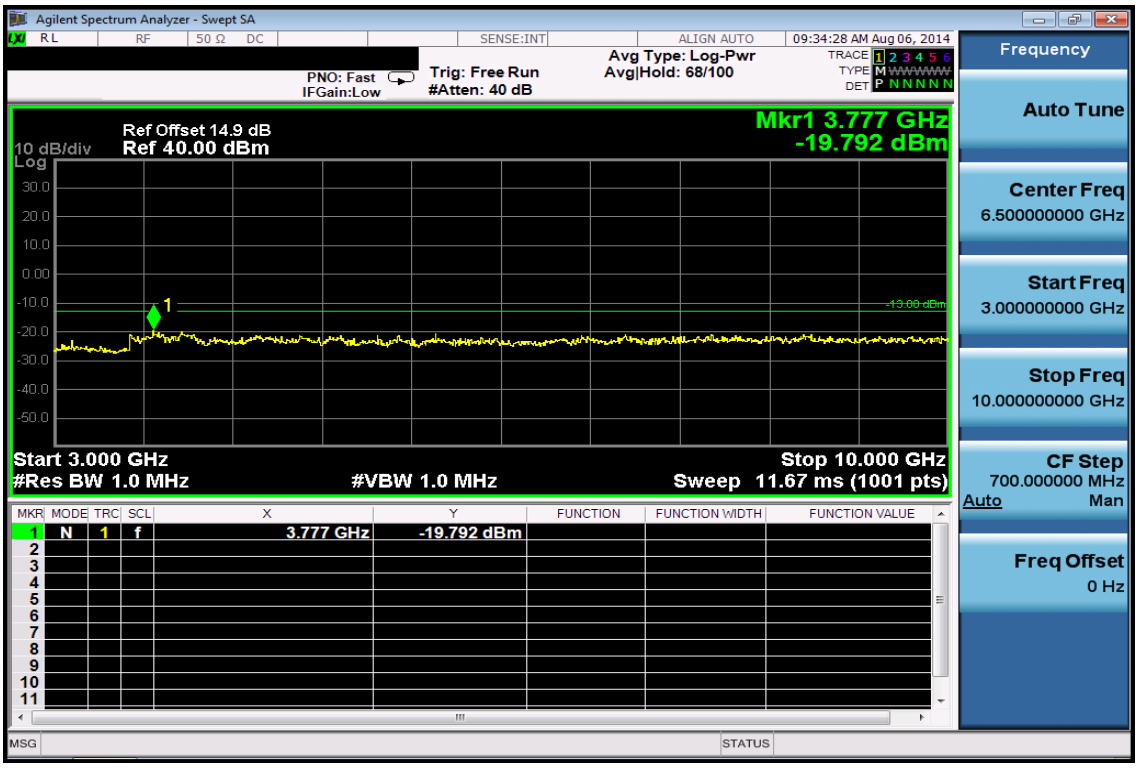


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Figure 9-44: Band edge emission at antenna terminals – WCDMA V Channel Lowest

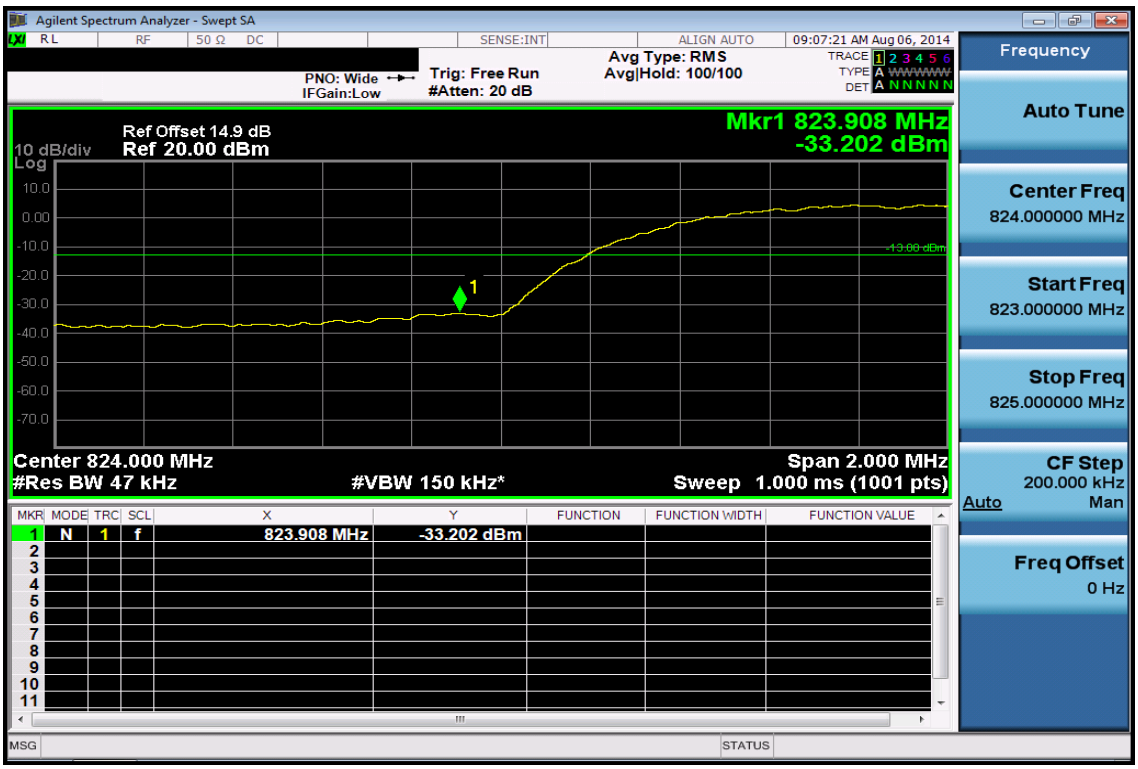

Figure 9-45: Band edge emission at antenna terminals – WCDMA V Channel Highest

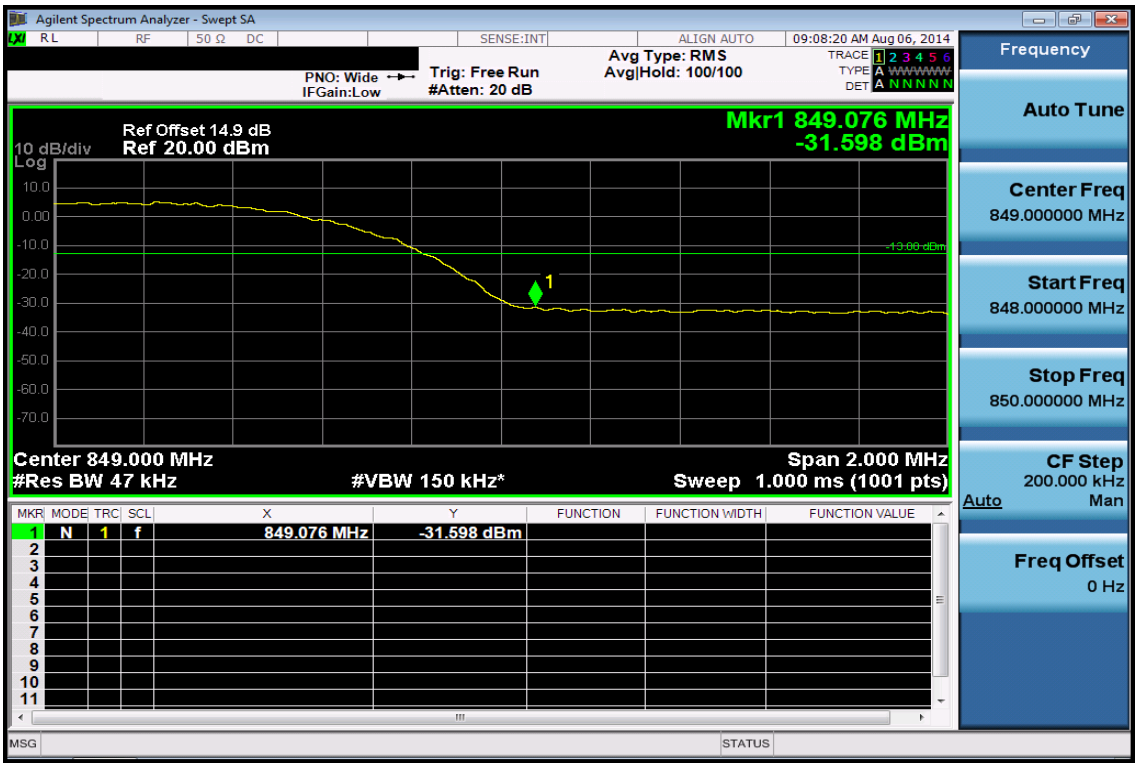

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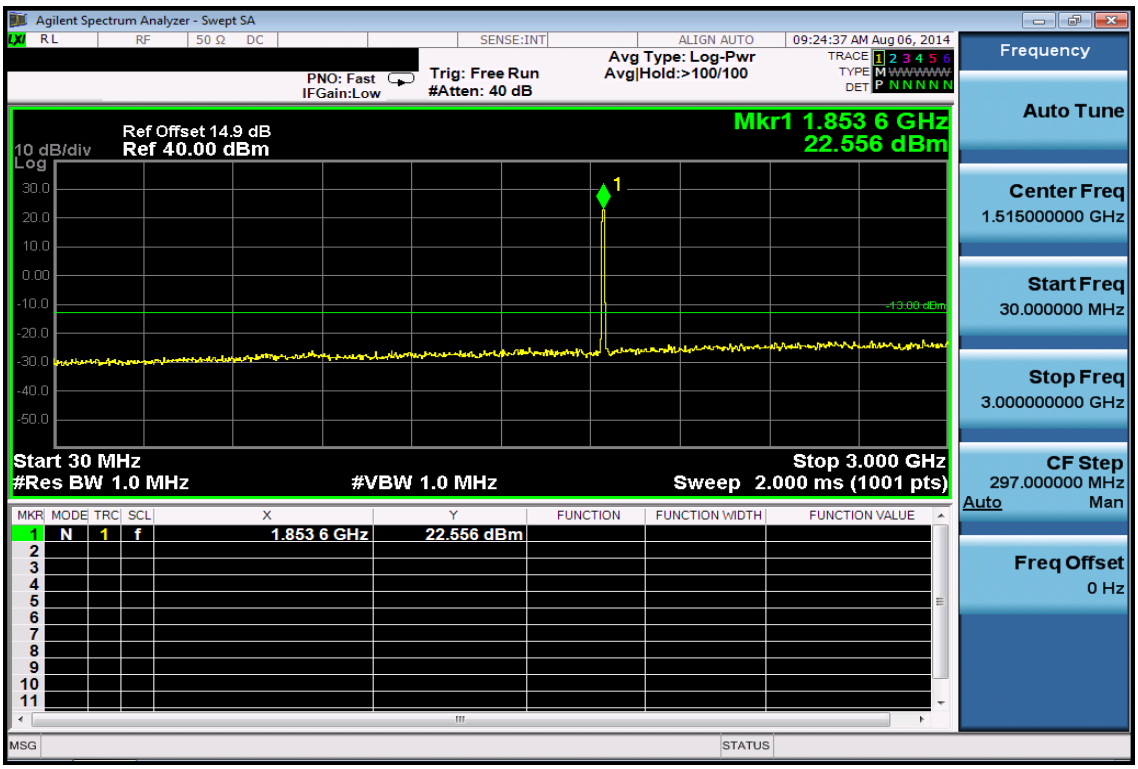
Figure 9-46: Out of Band emission at antenna terminals – HSDPA II Channel Lowest



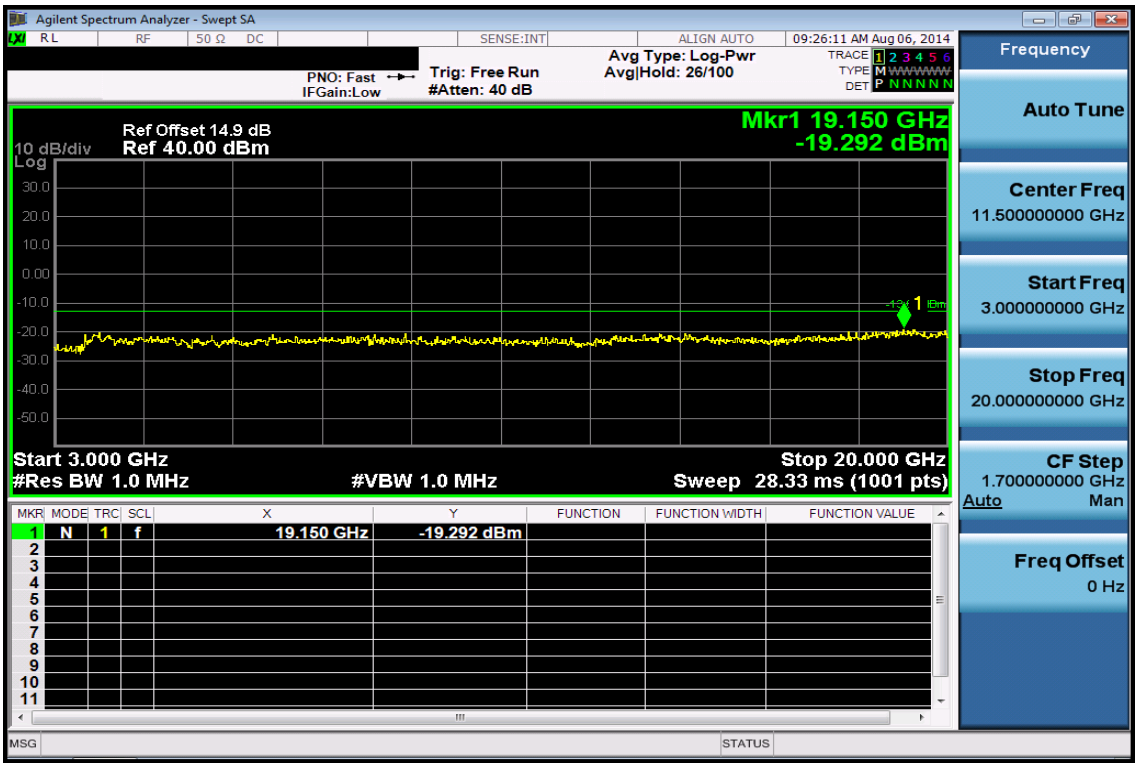


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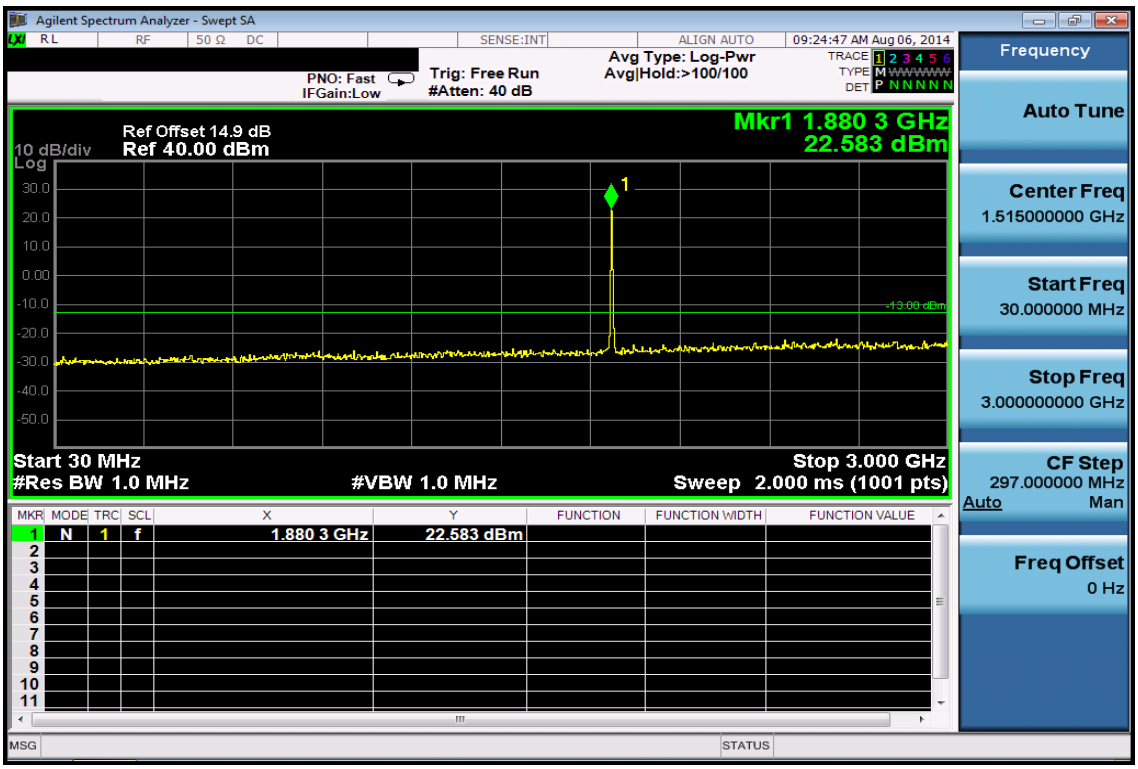
Figure 9-47: Out of Band emission at antenna terminals – HSDPA II Channel Mid



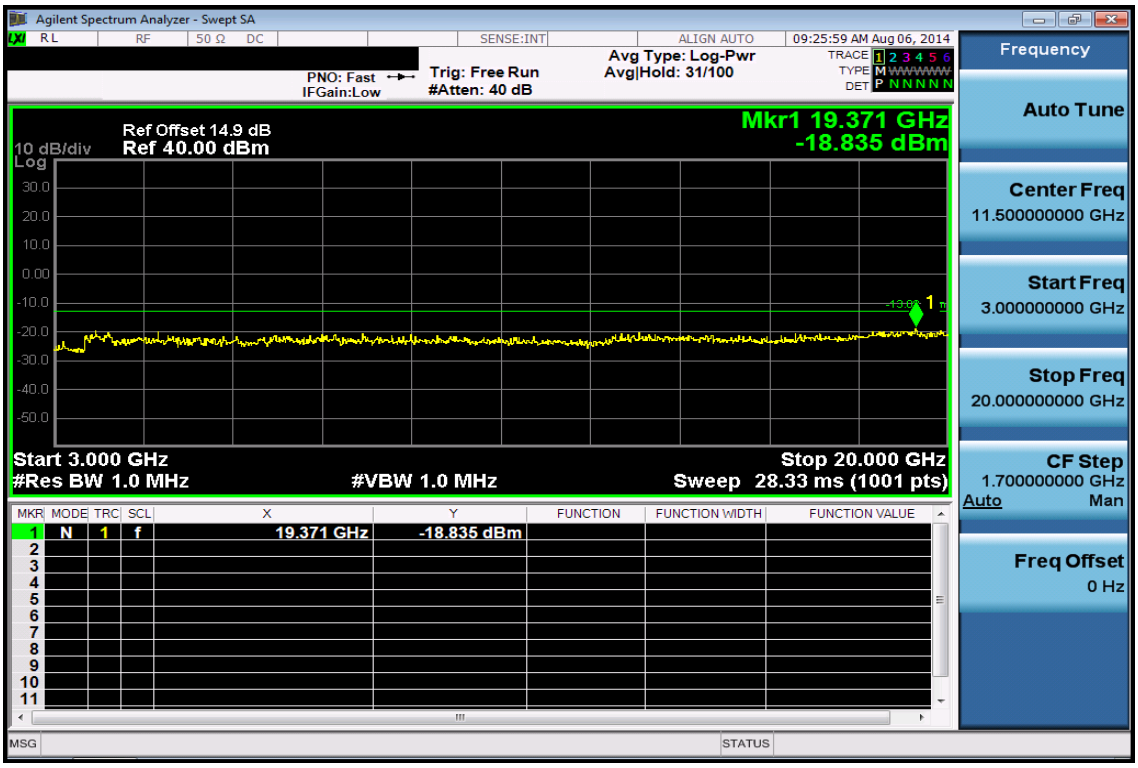


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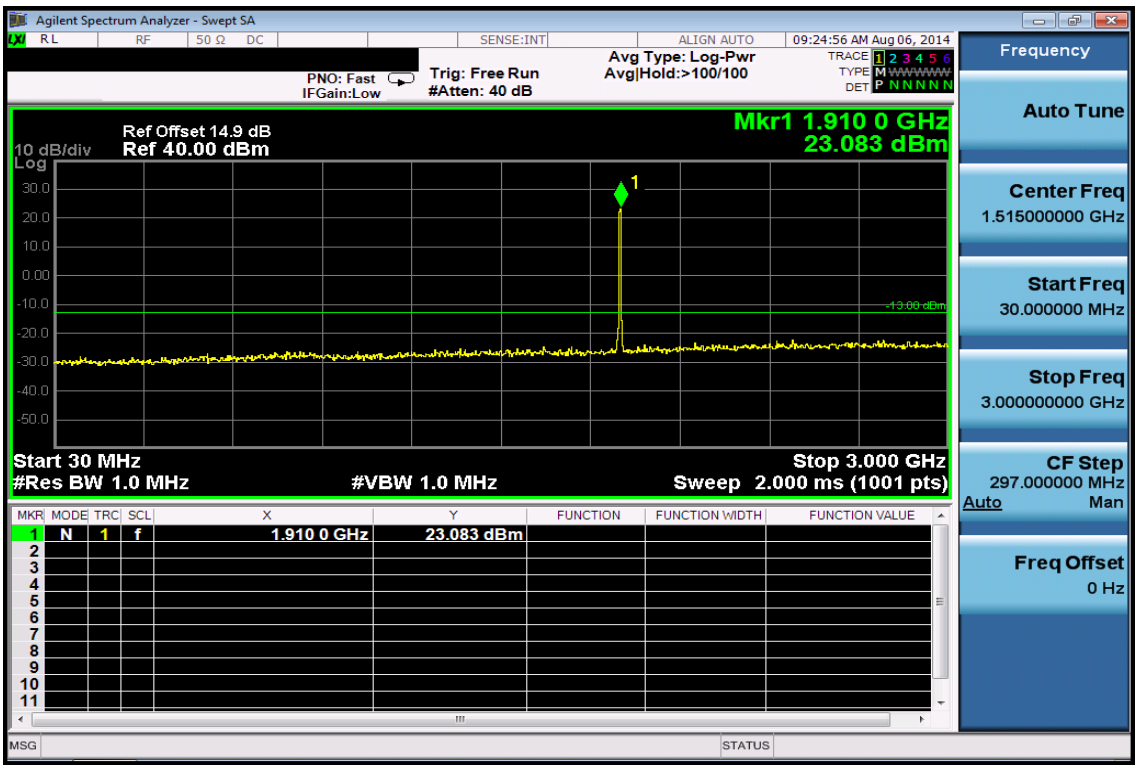
Figure 9-48: Out of Band emission at antenna terminals – HSDPA II Channel Highest



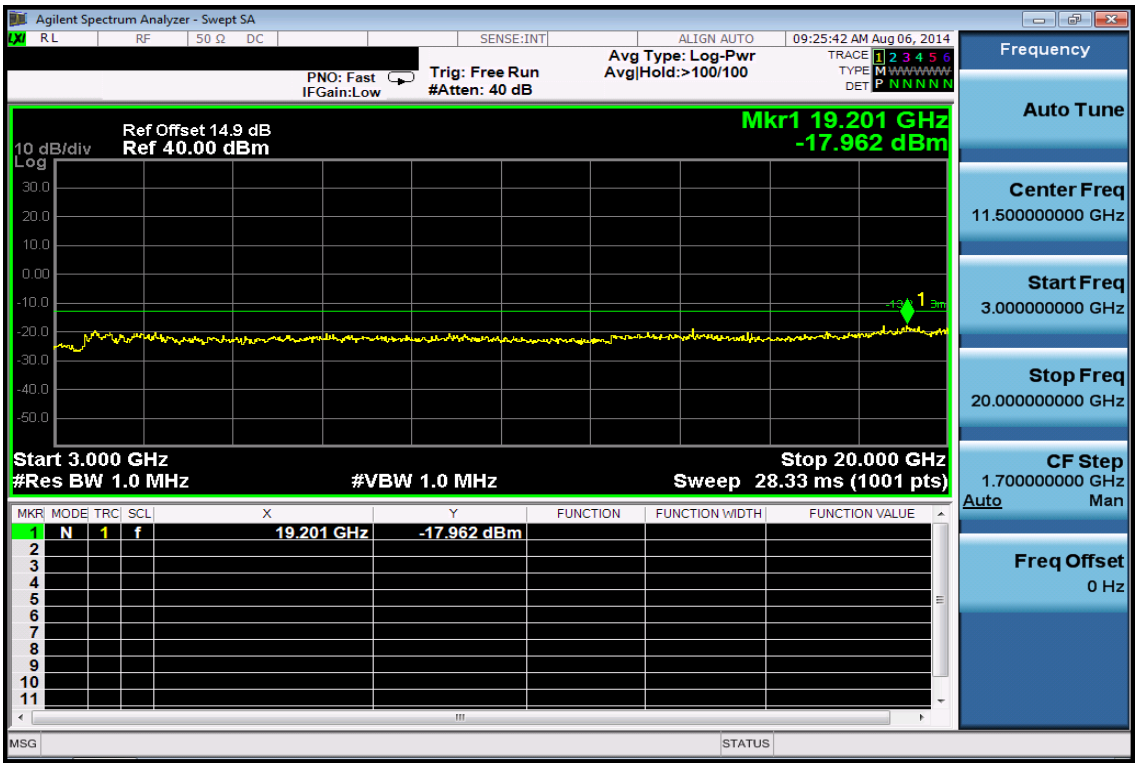


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Figure 9-49: Band edge emission at antenna terminals – HSDPA II Channel Lowest

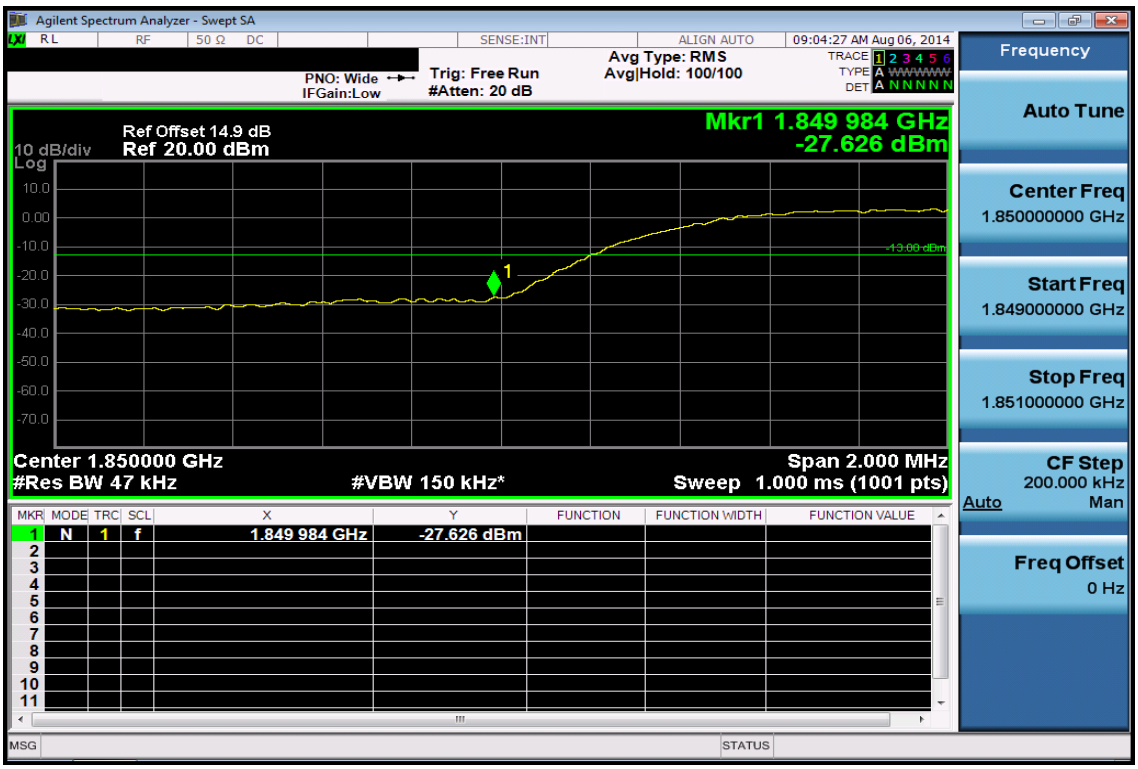

Figure 9-50: Band edge emission at antenna terminals – HSDPA II Channel Highest

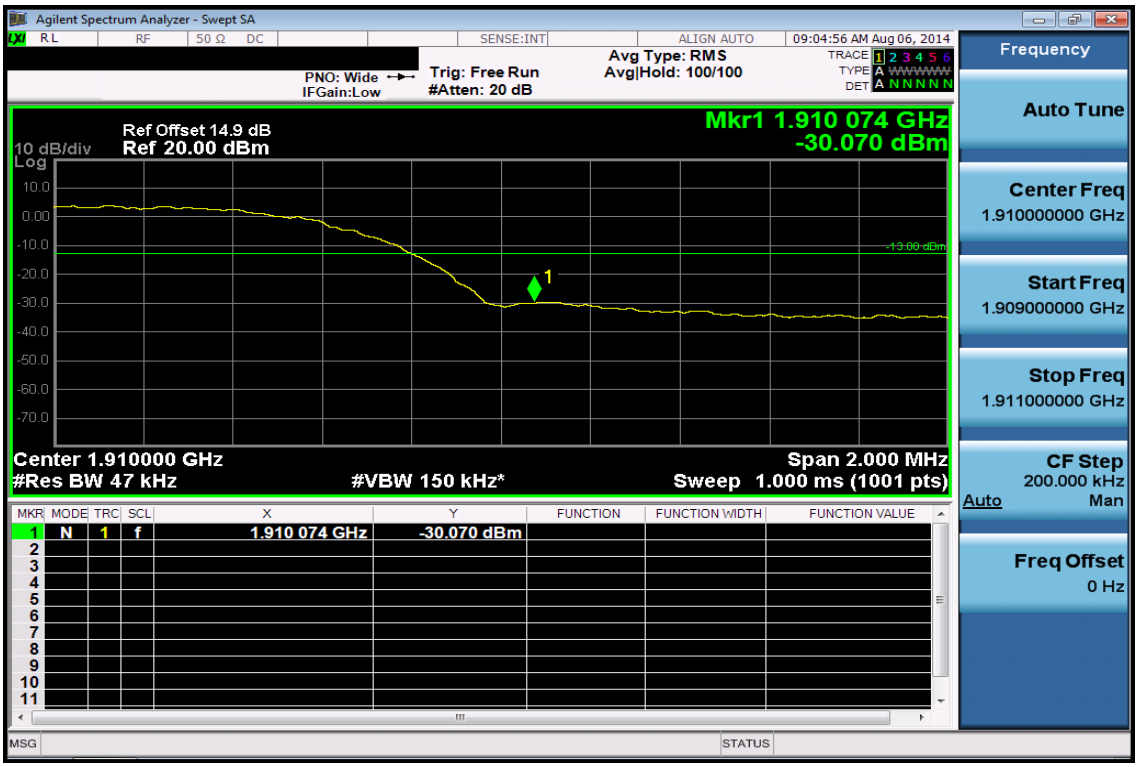

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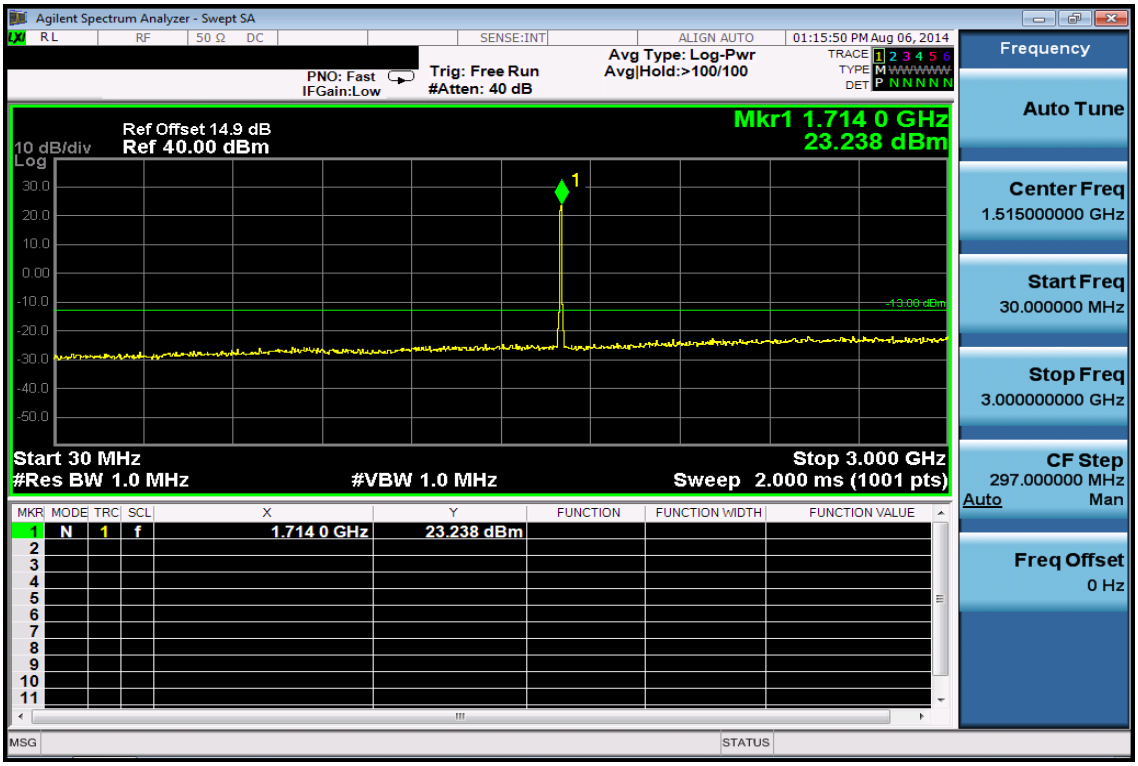
Figure 9-51: Out of Band emission at antenna terminals HSDPA IV Channel Lowest



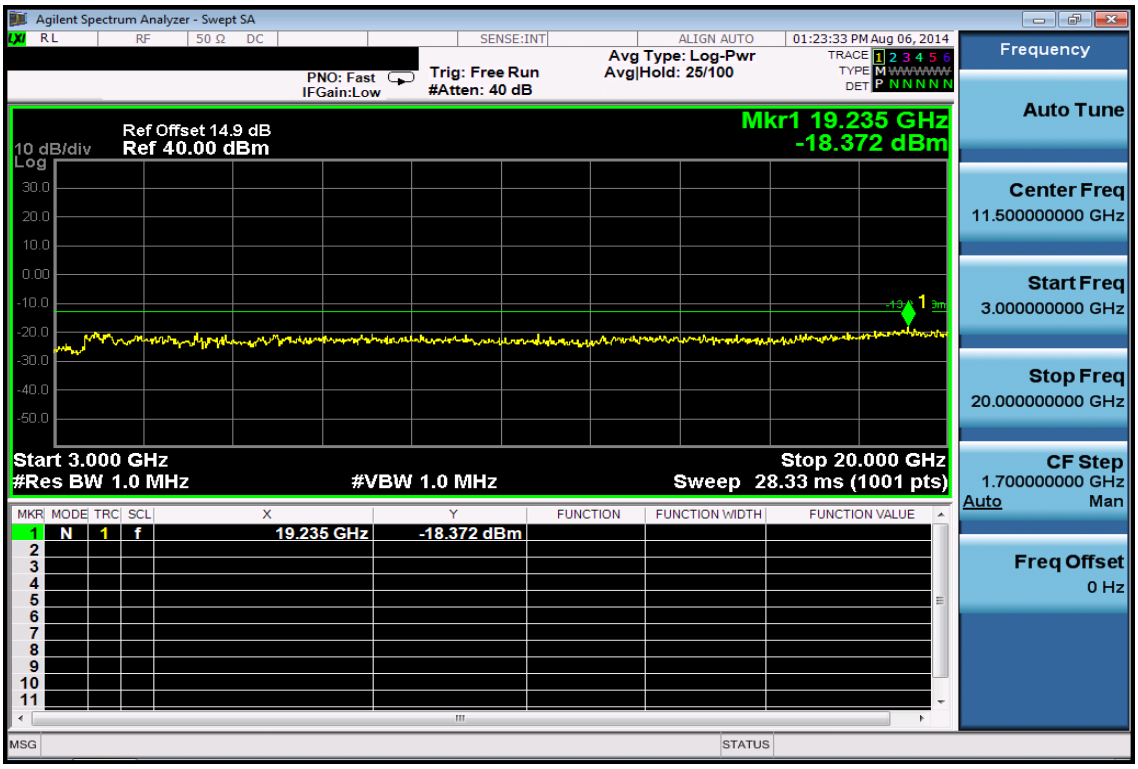


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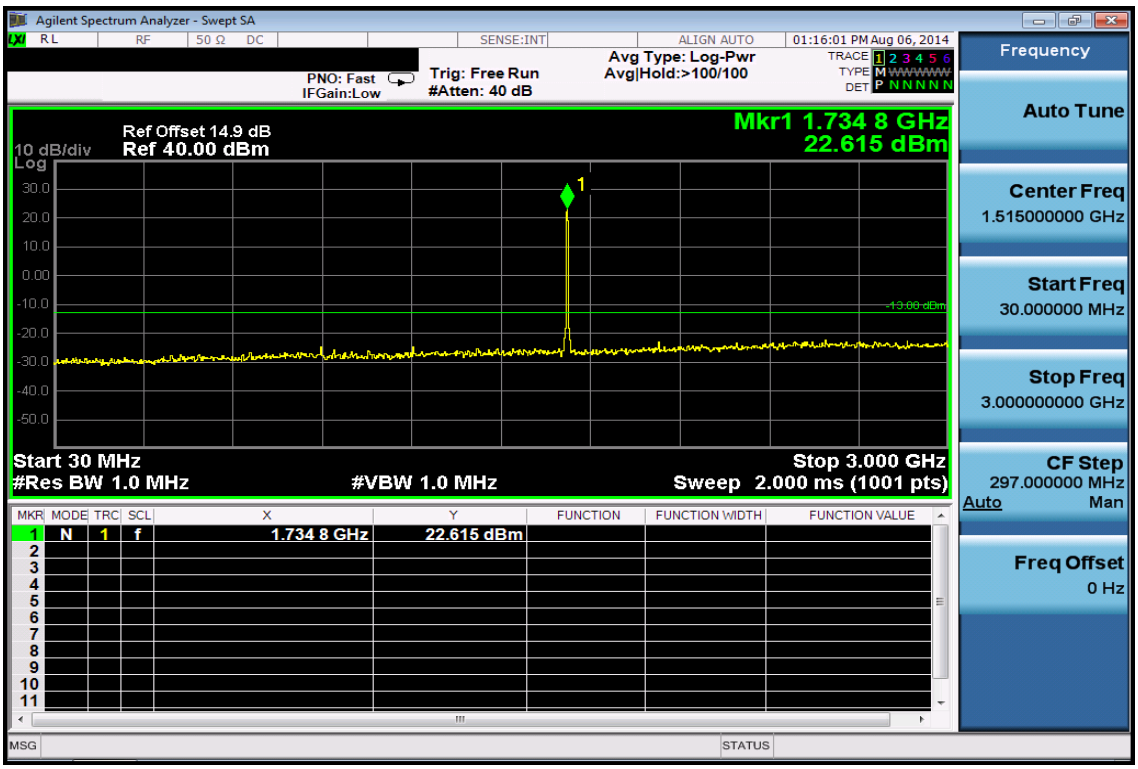
Figure 9-52: Out of Band emission at antenna terminals –HSDPA IV Channel Mid



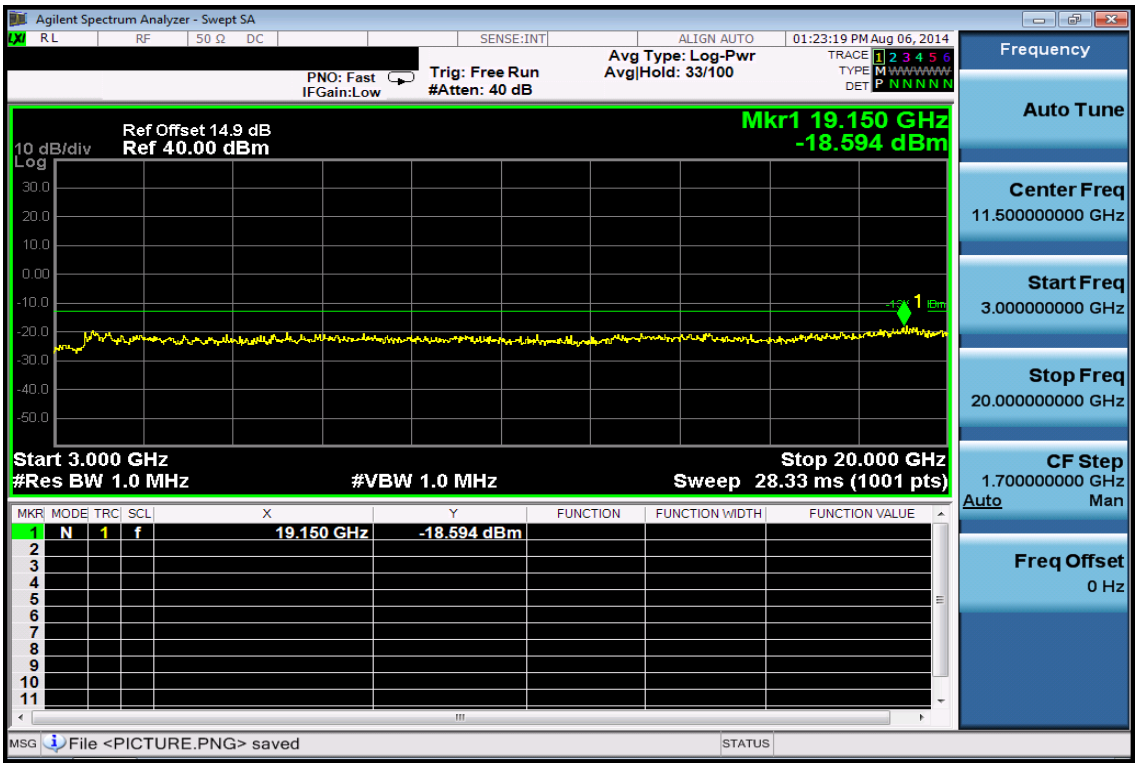


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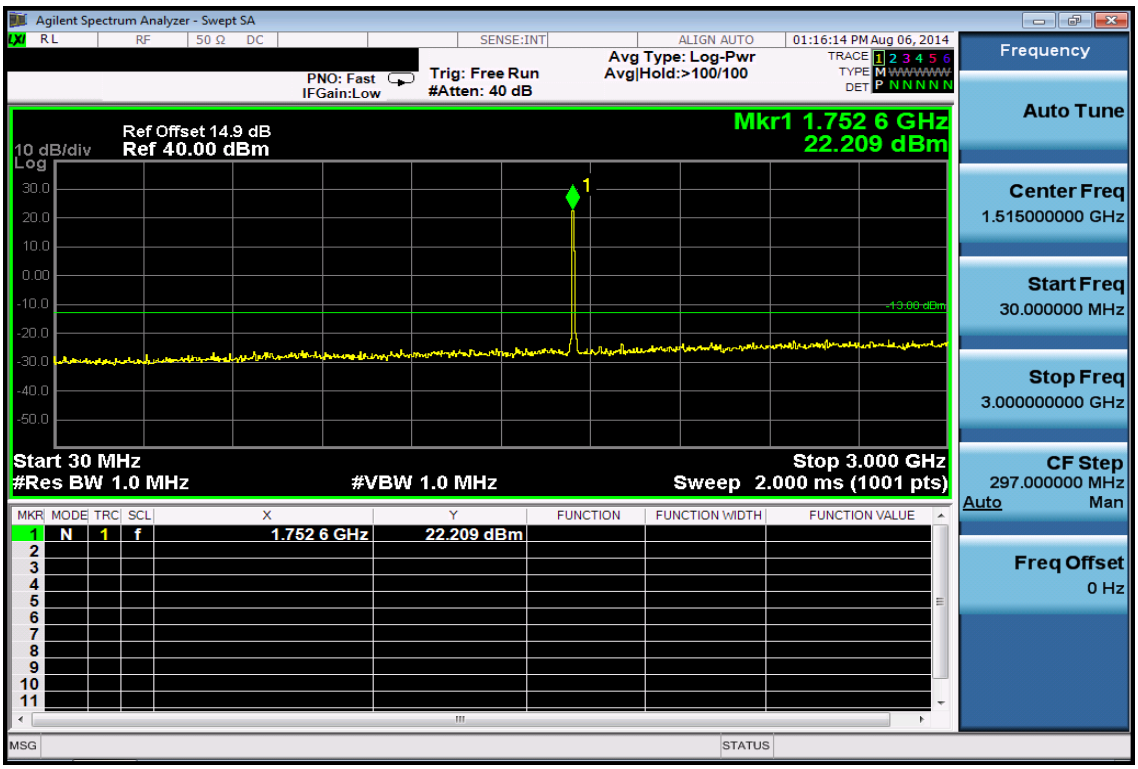
Figure 9-53: Out of Band emission at antenna terminals –HSDPA IV Channel Highest



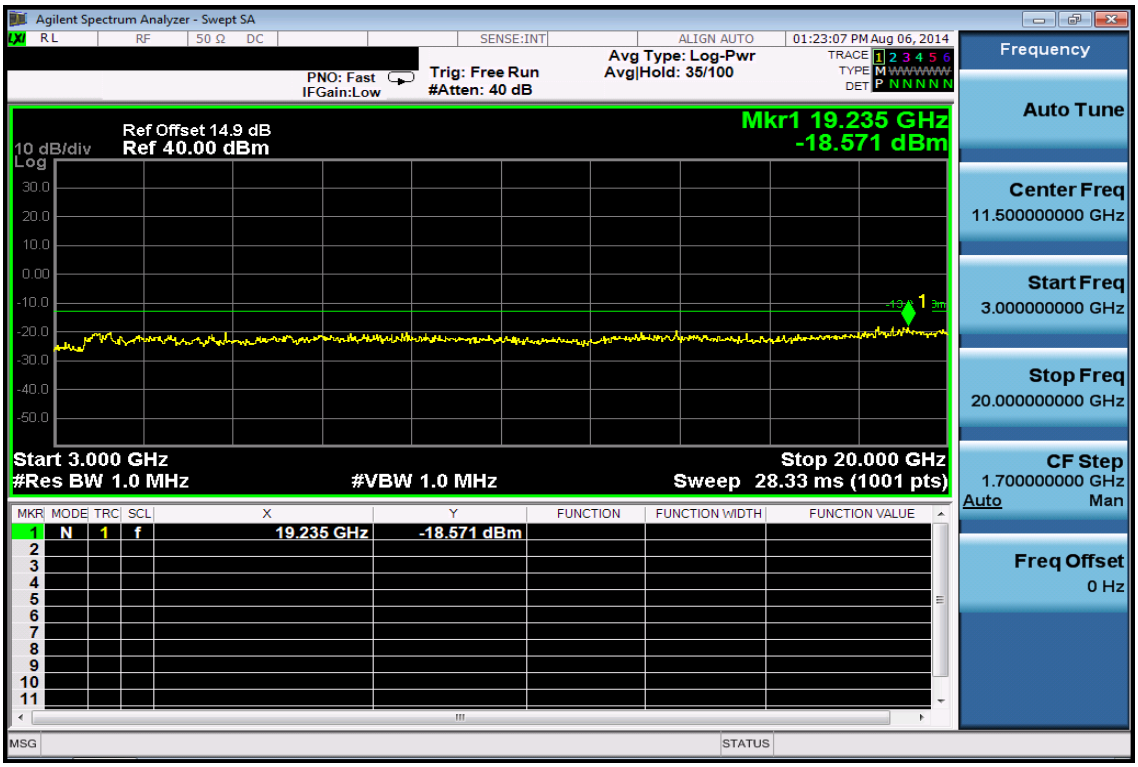


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Figure 9-54: Band edge emission at antenna terminals –HSDPA IV Channel Lowest

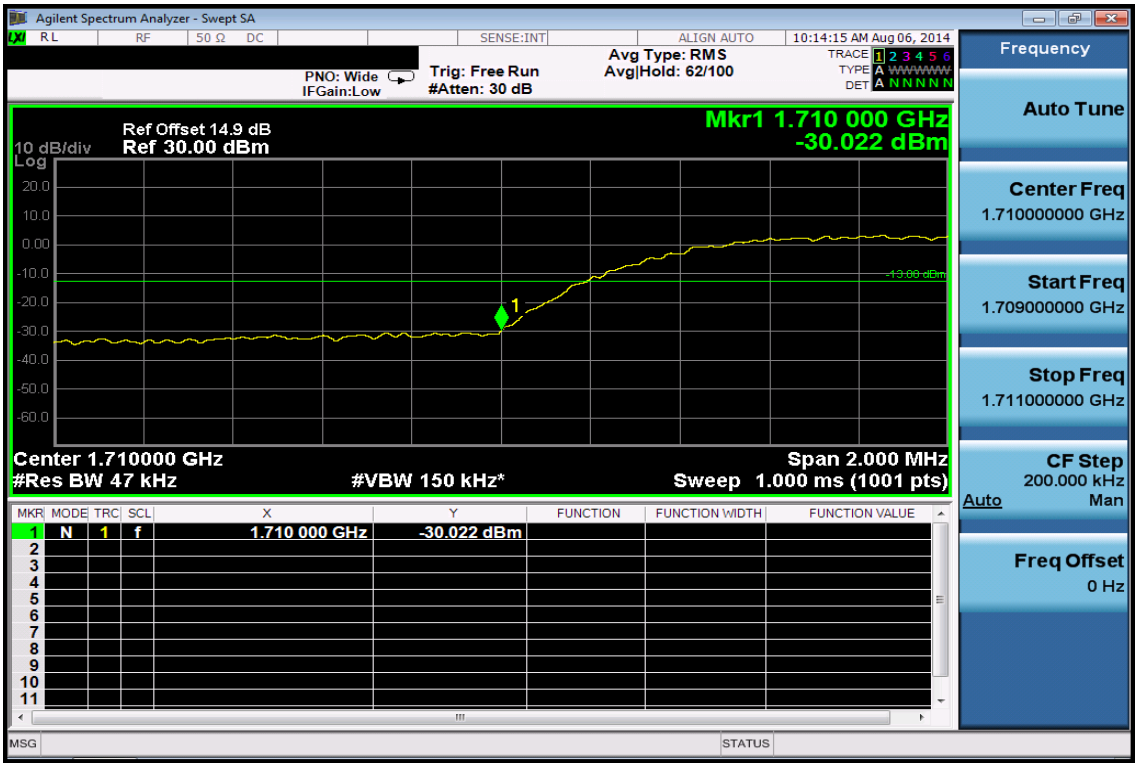

Figure 9-55: Band edge emission at antenna terminals –HSDPA IV Channel Highest

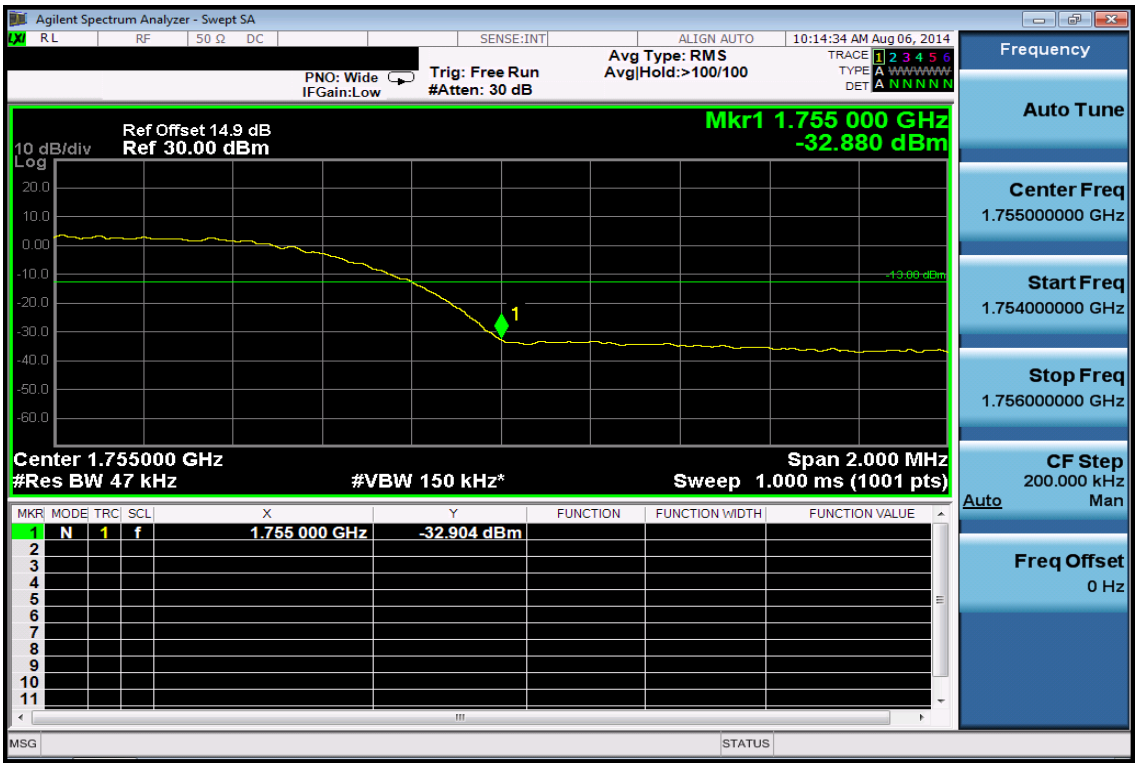

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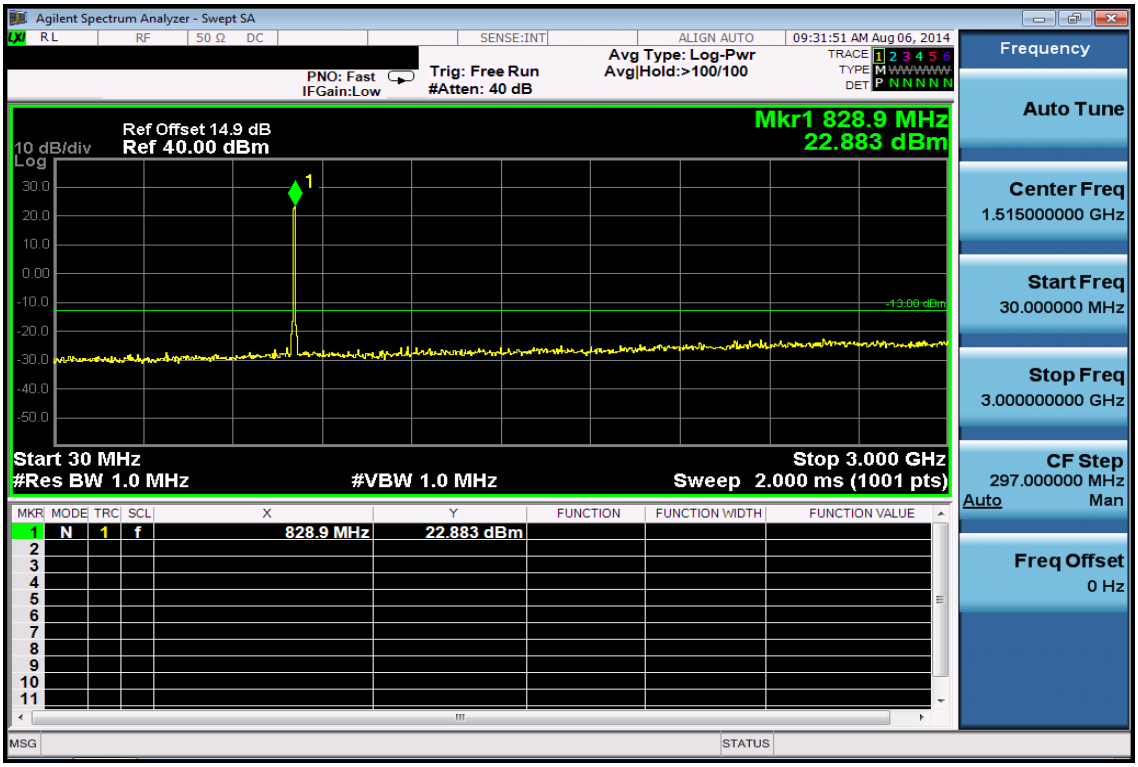
Figure 9-56: Out of Band emission at antenna terminals – HSDPA V Channel Lowest



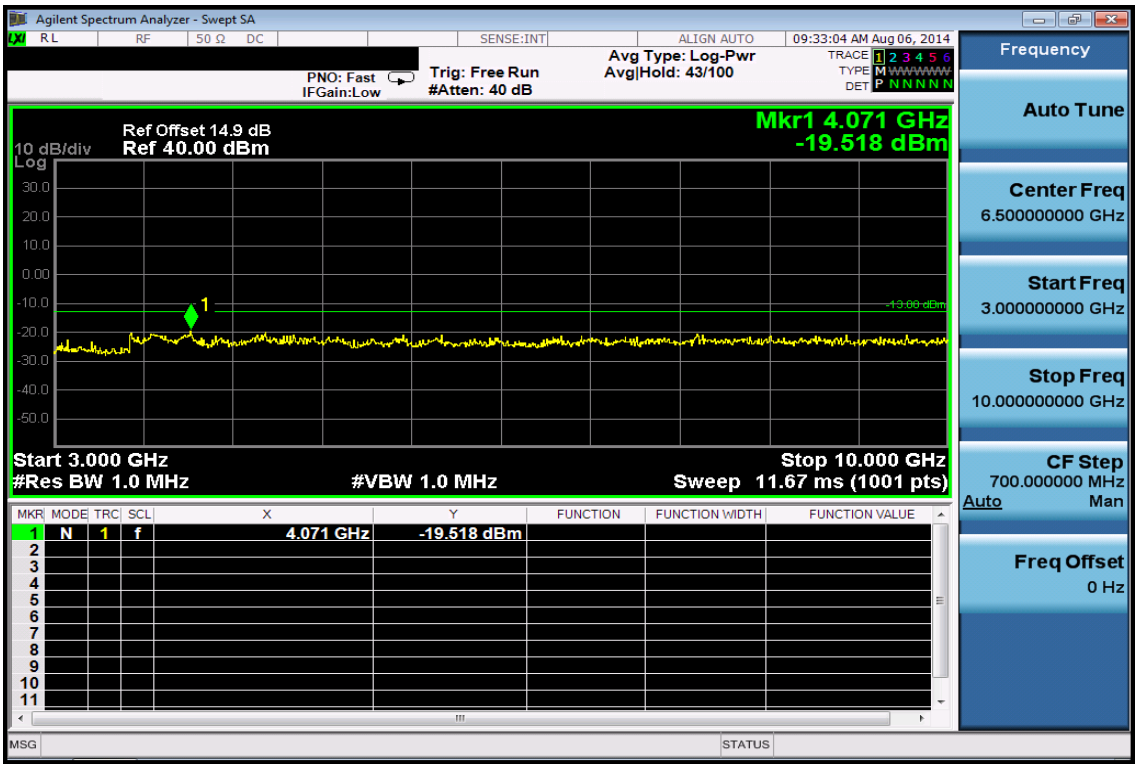


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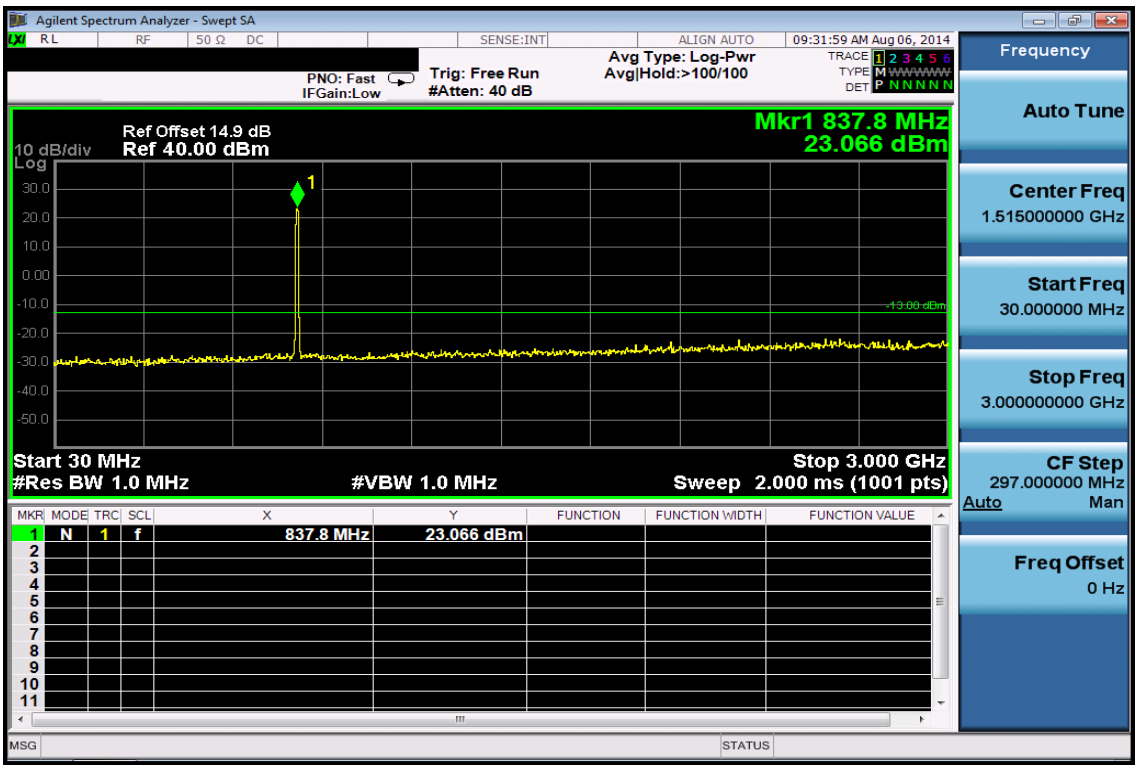
Figure 9-57: Out of Band emission at antenna terminals – HSDPA V Channel Mid



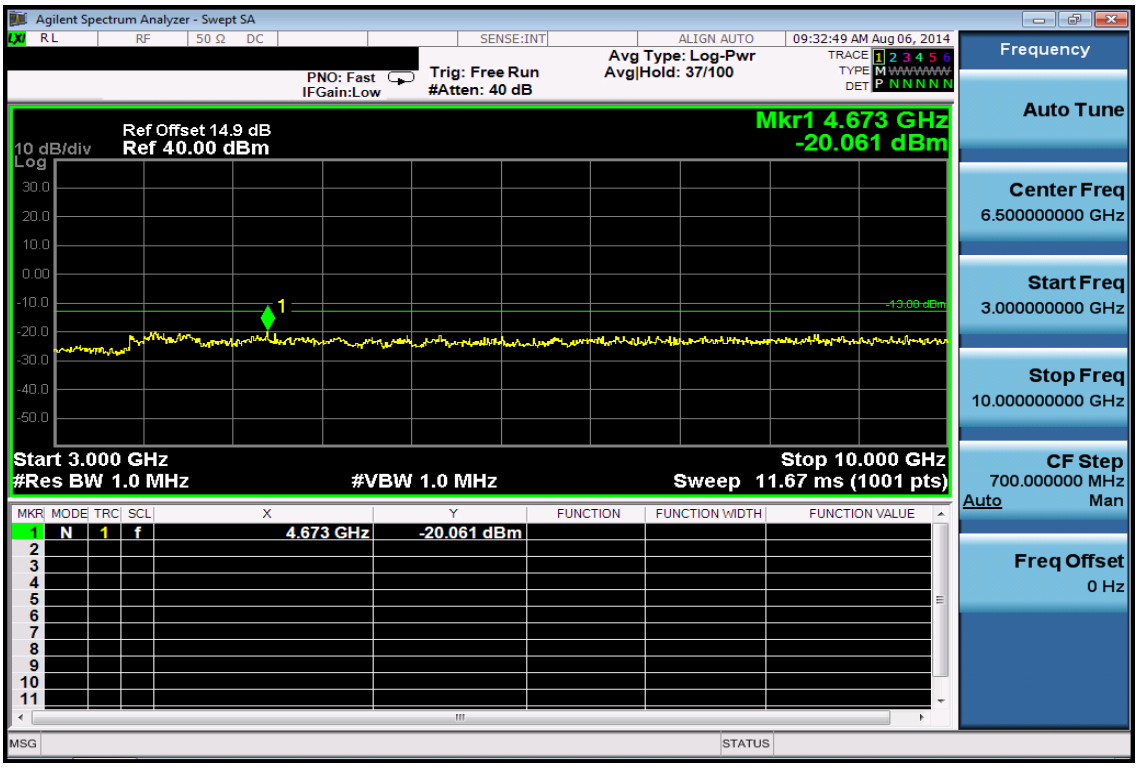


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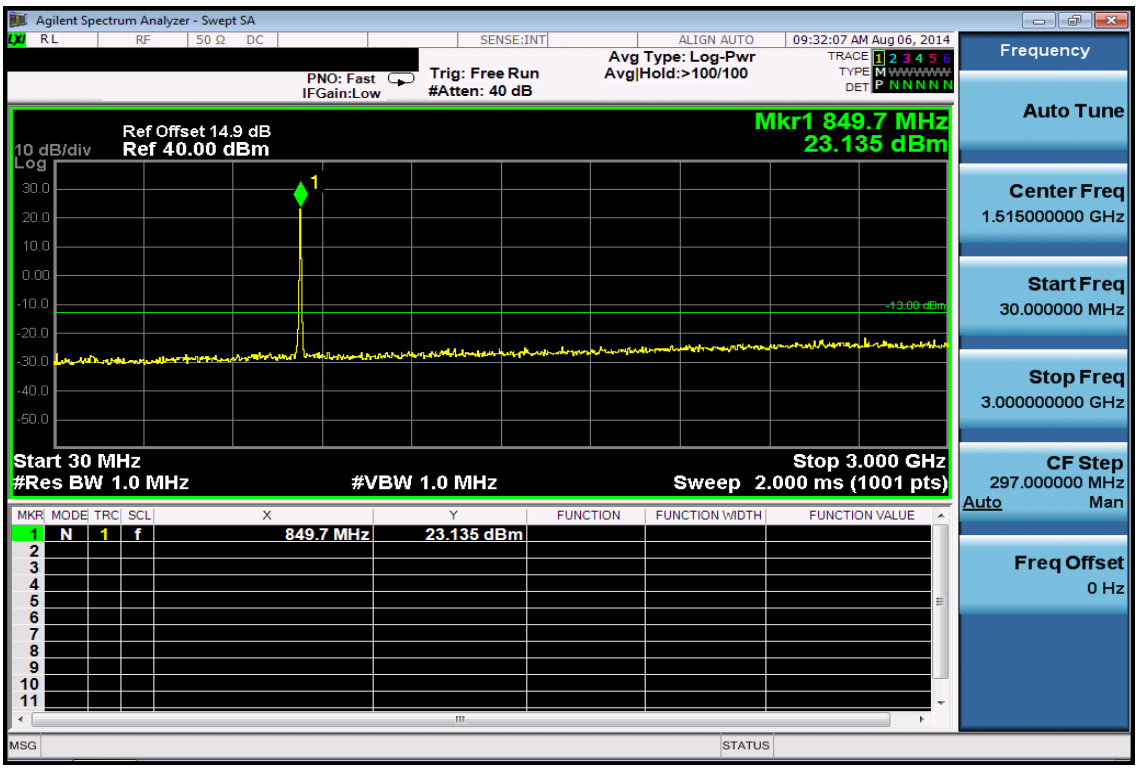
Figure 9-58: Out of Band emission at antenna terminals – HSDPA V Channel Highest



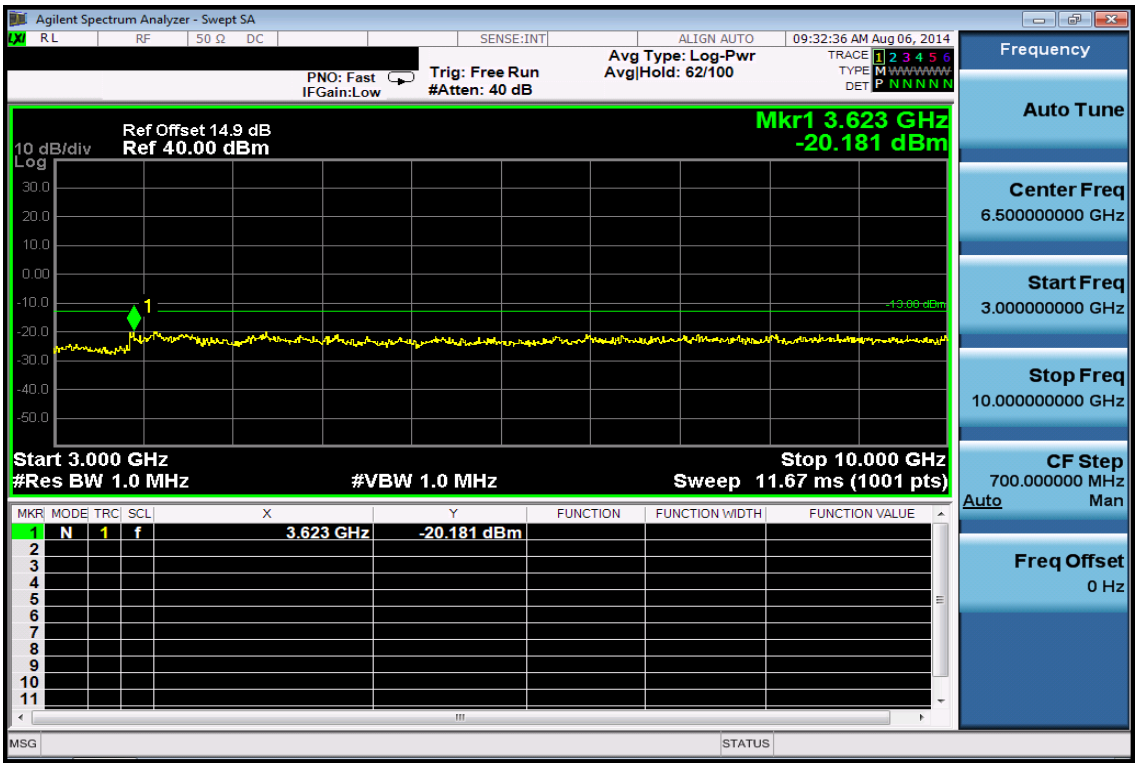


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Figure 9-59: Band edge emission at antenna terminals – HSDPA V Channel Lowest

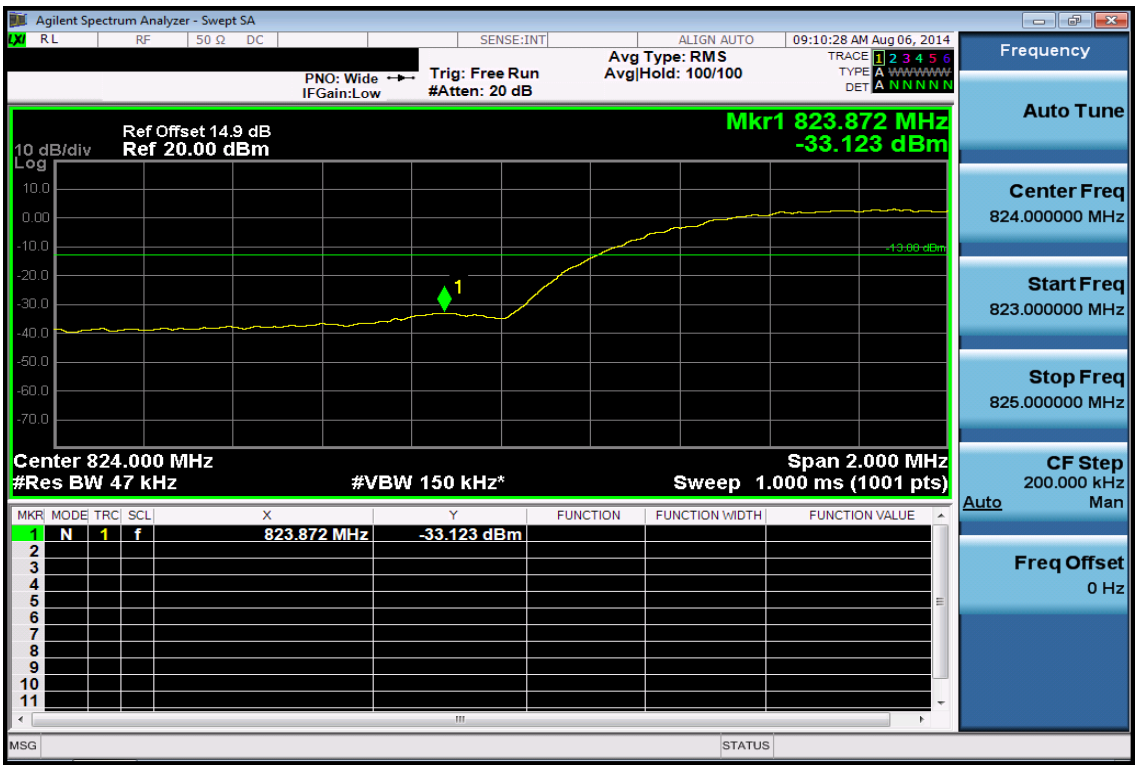

Figure 9-60: Band edge emission at antenna terminals – HSDPA V Channel Highest

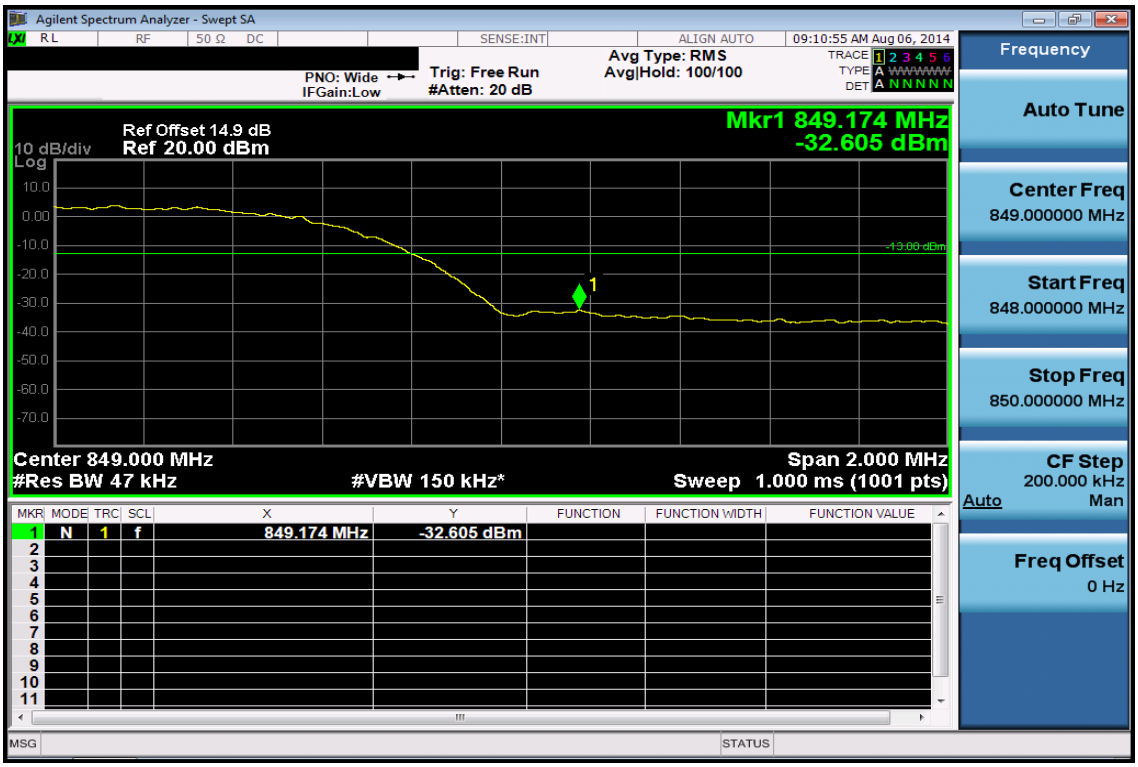

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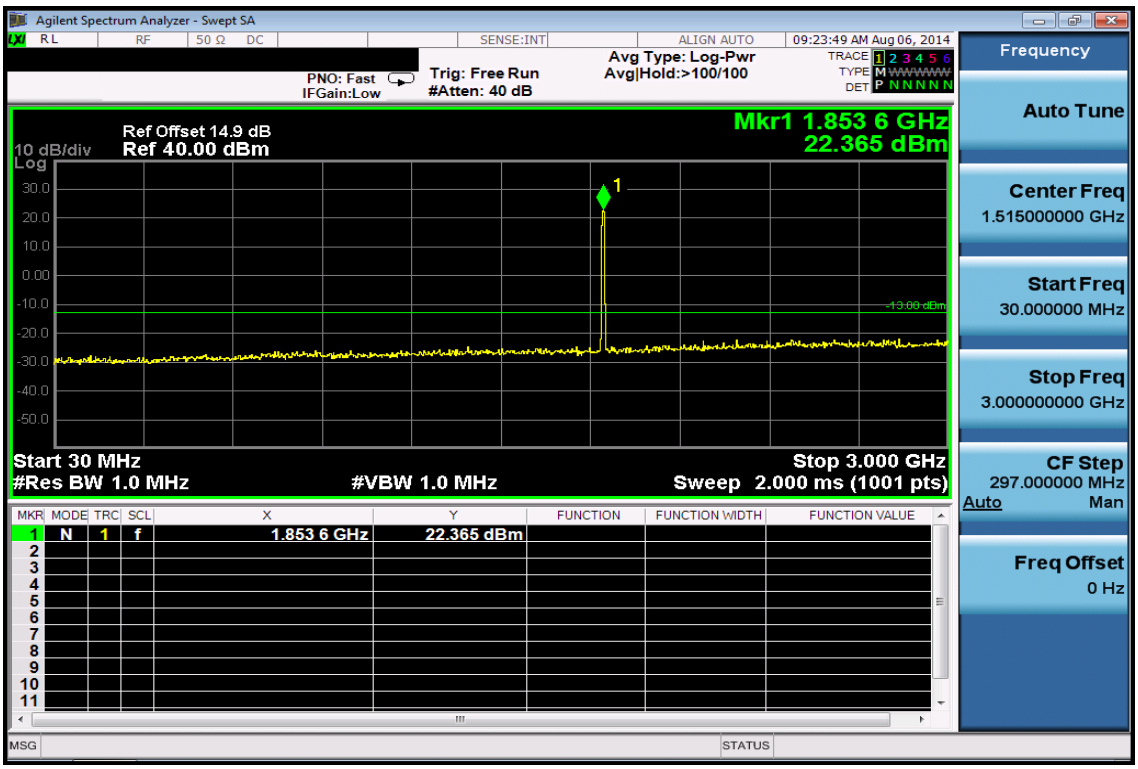
Figure 9-61: Out of Band emission at antenna terminals – HSUPA II Channel Lowest



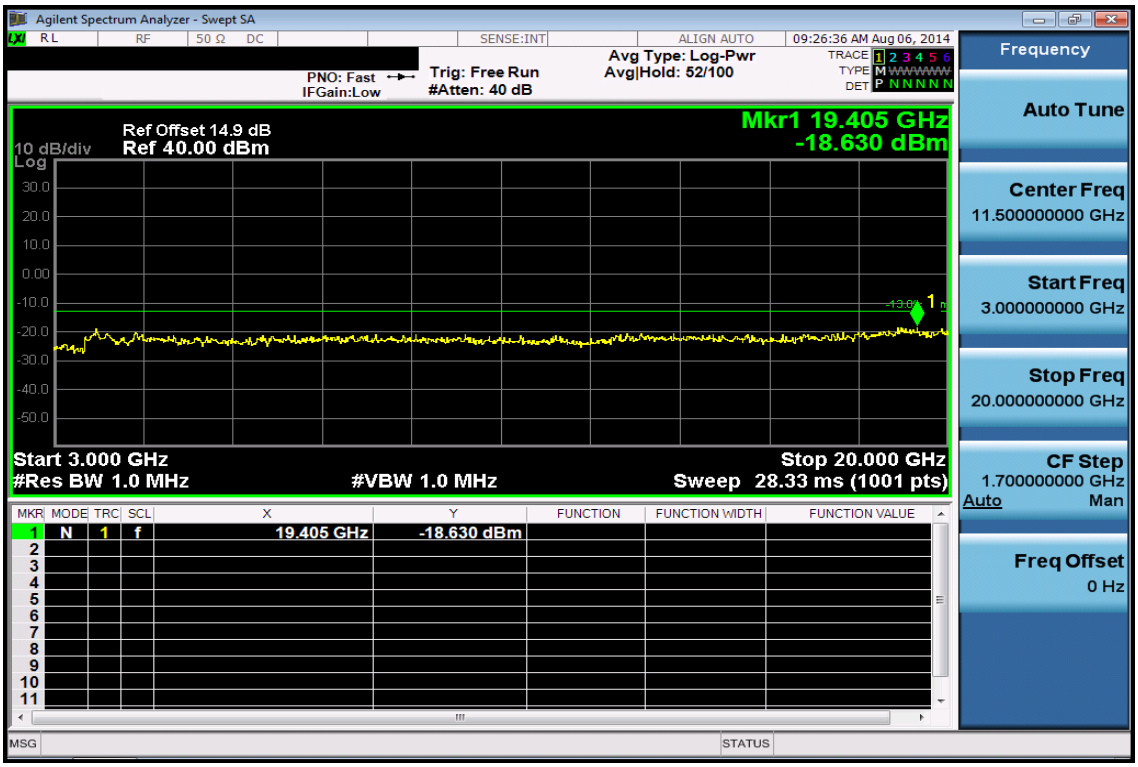


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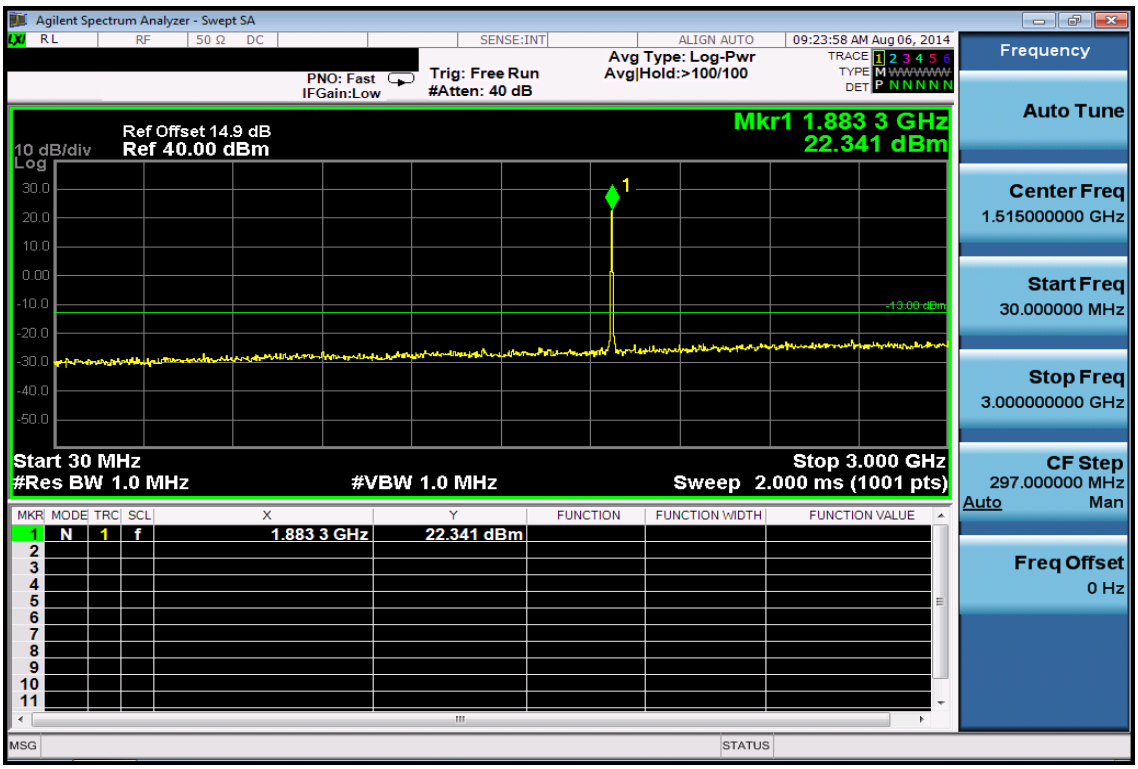
Figure 9-62: Out of Band emission at antenna terminals – HSUPA II Channel Mid



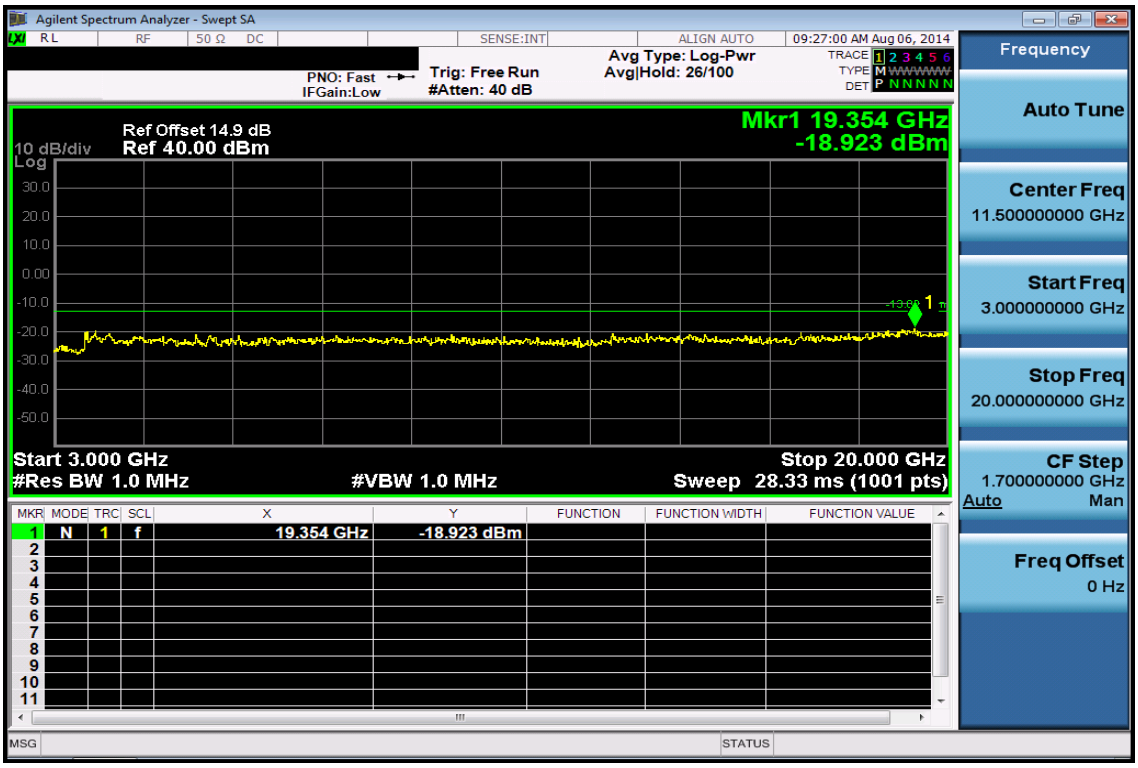


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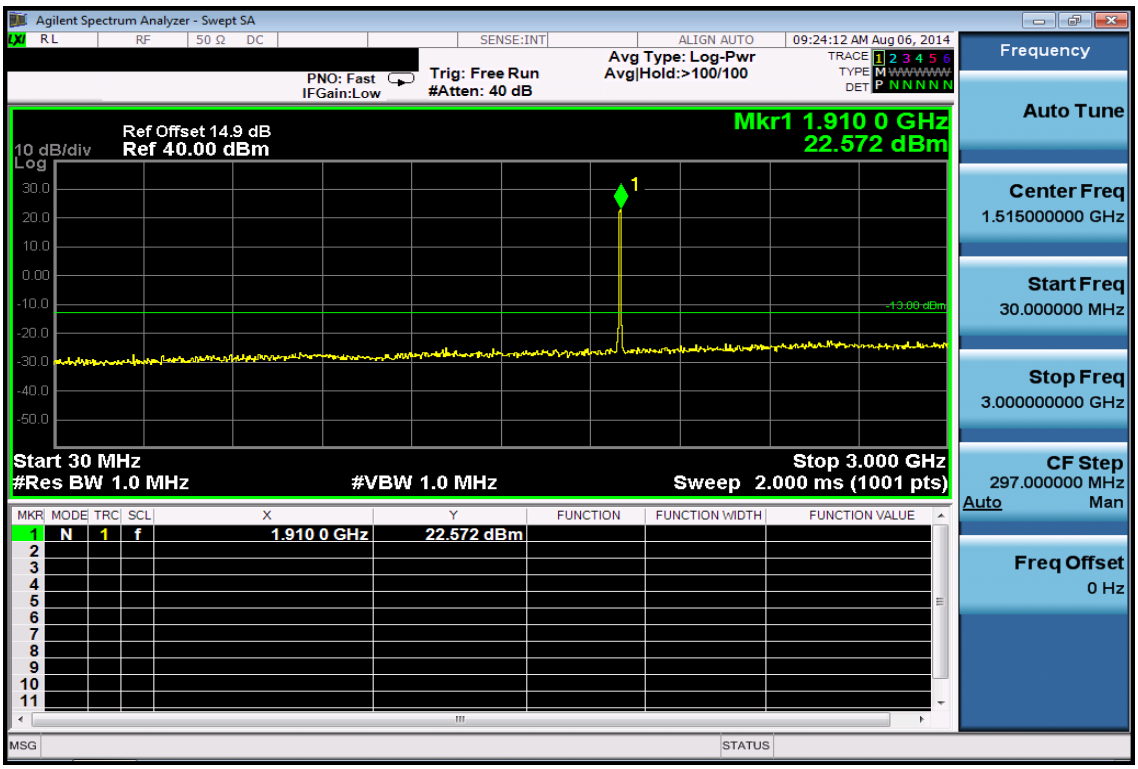
Figure 9-63: Out of Band emission at antenna terminals – HSUPA II Channel Highest



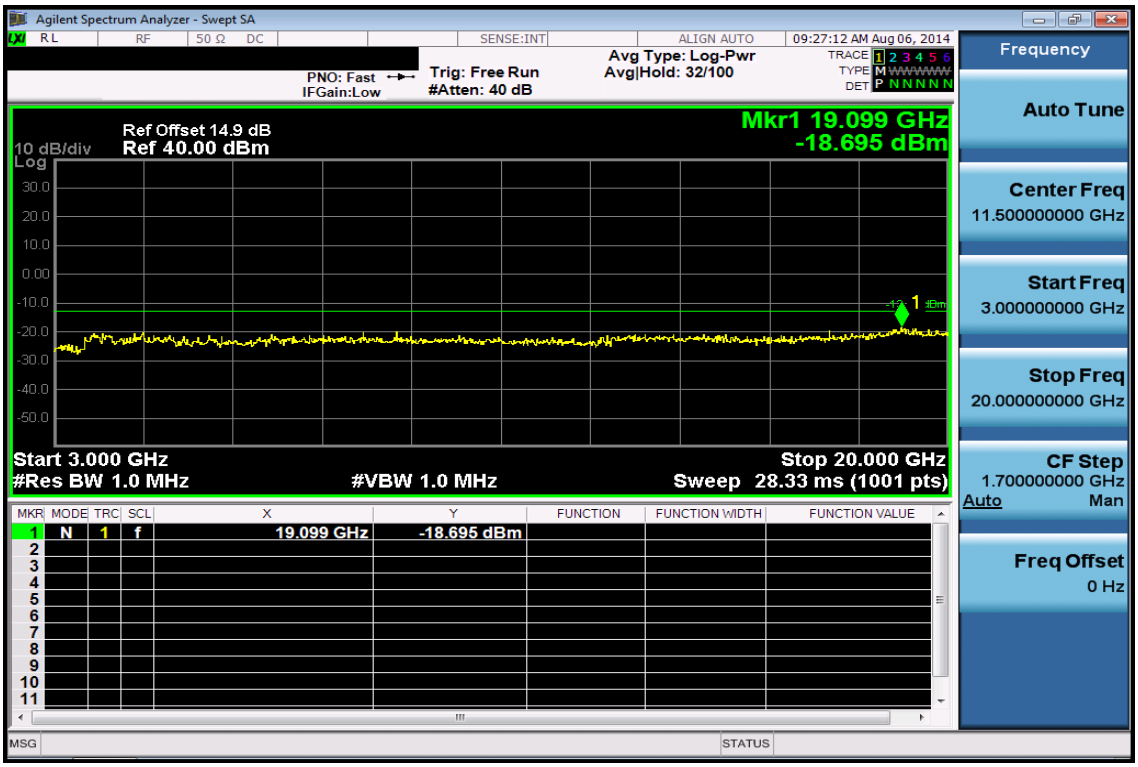


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Figure 9-64: Band edge emission at antenna terminals – HSUPA II Channel Lowest

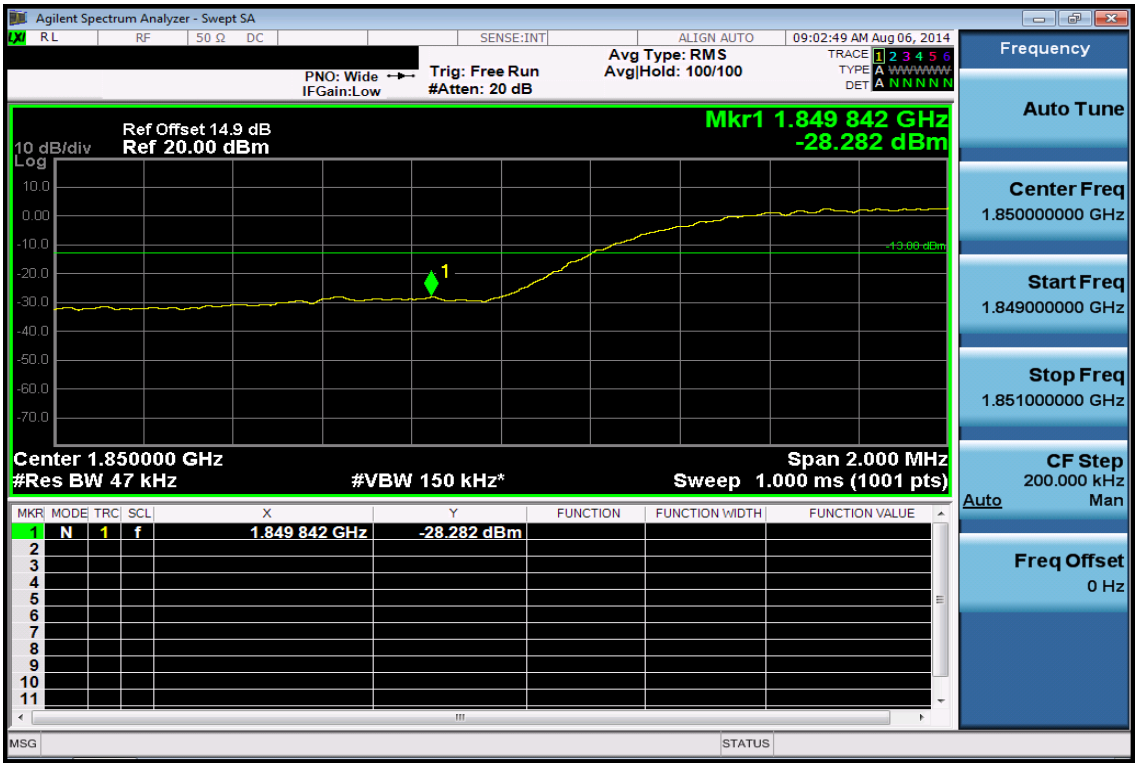

Figure 9-65: Band edge emission at antenna terminals – HSUPA II Channel Highest

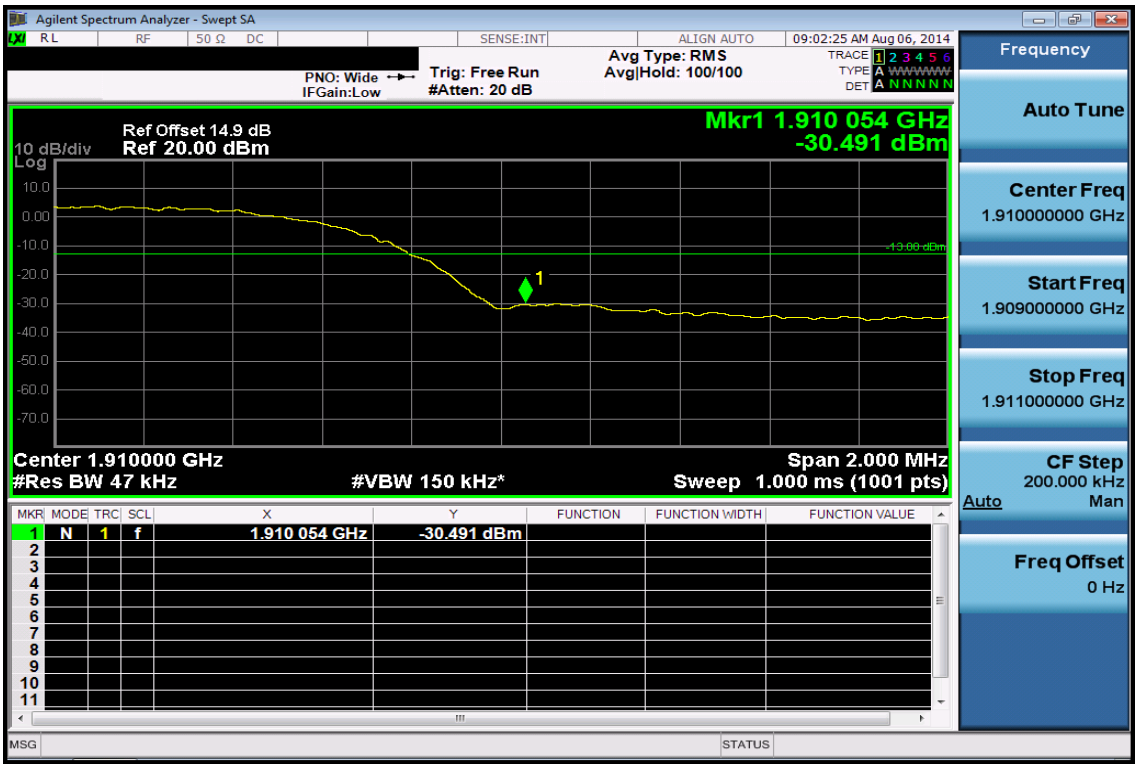

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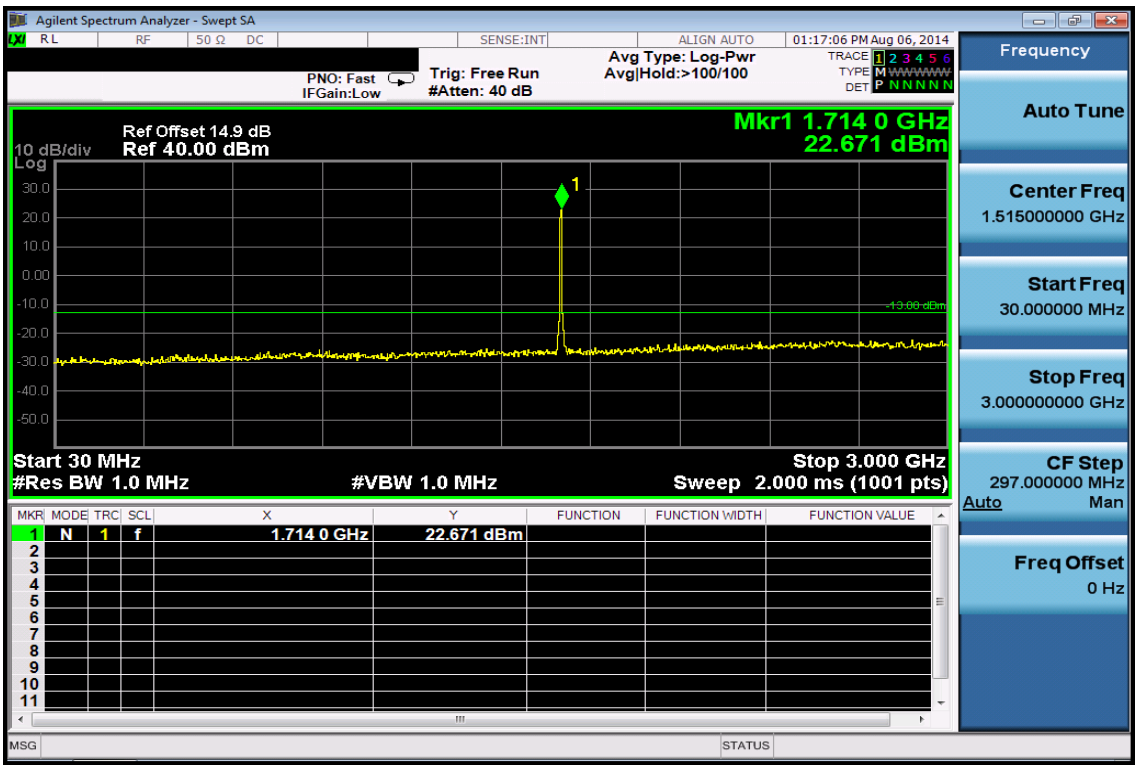
Figure 9-66: Out of Band emission at antenna terminals –HSUPA IV Channel Lowest



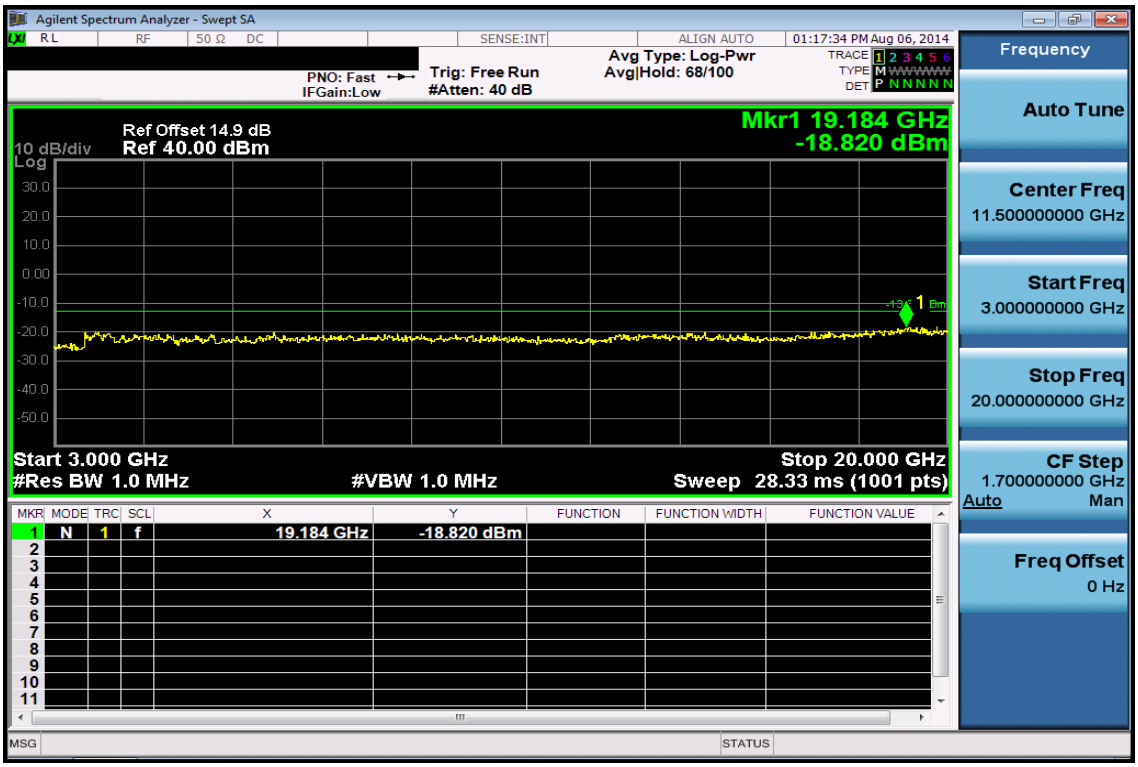


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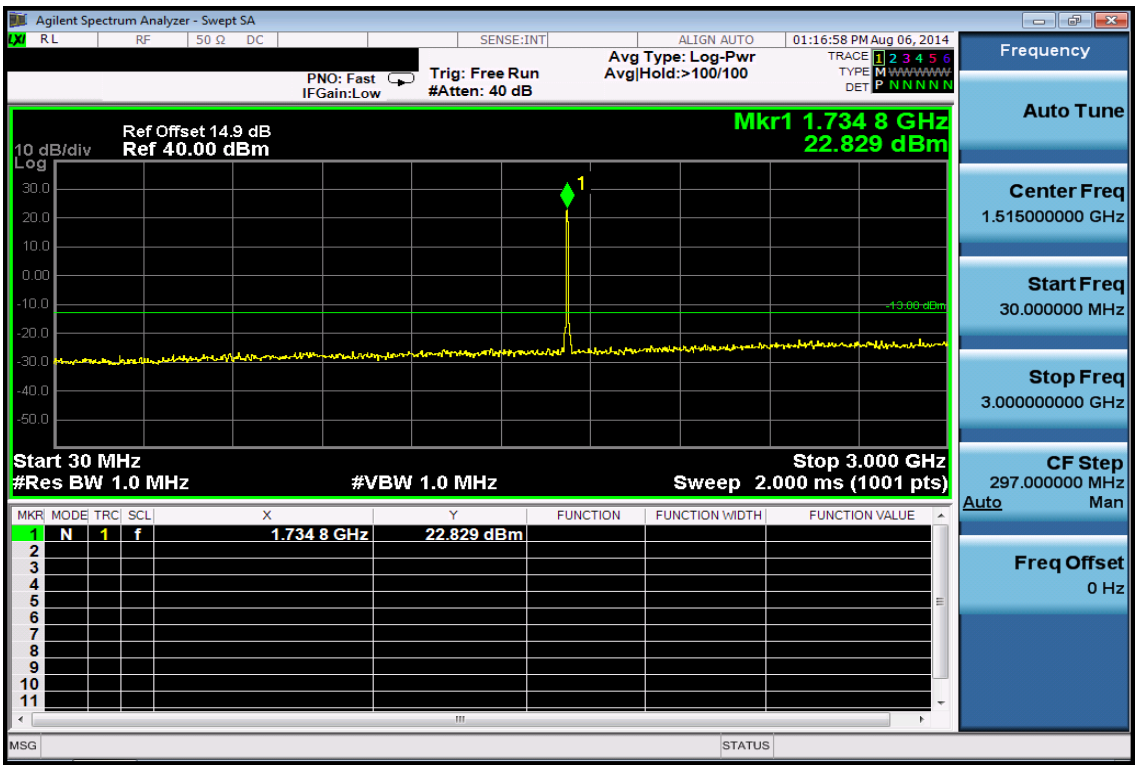
Figure 9-67: Out of Band emission at antenna terminals –HSUPA IV Channel Mid



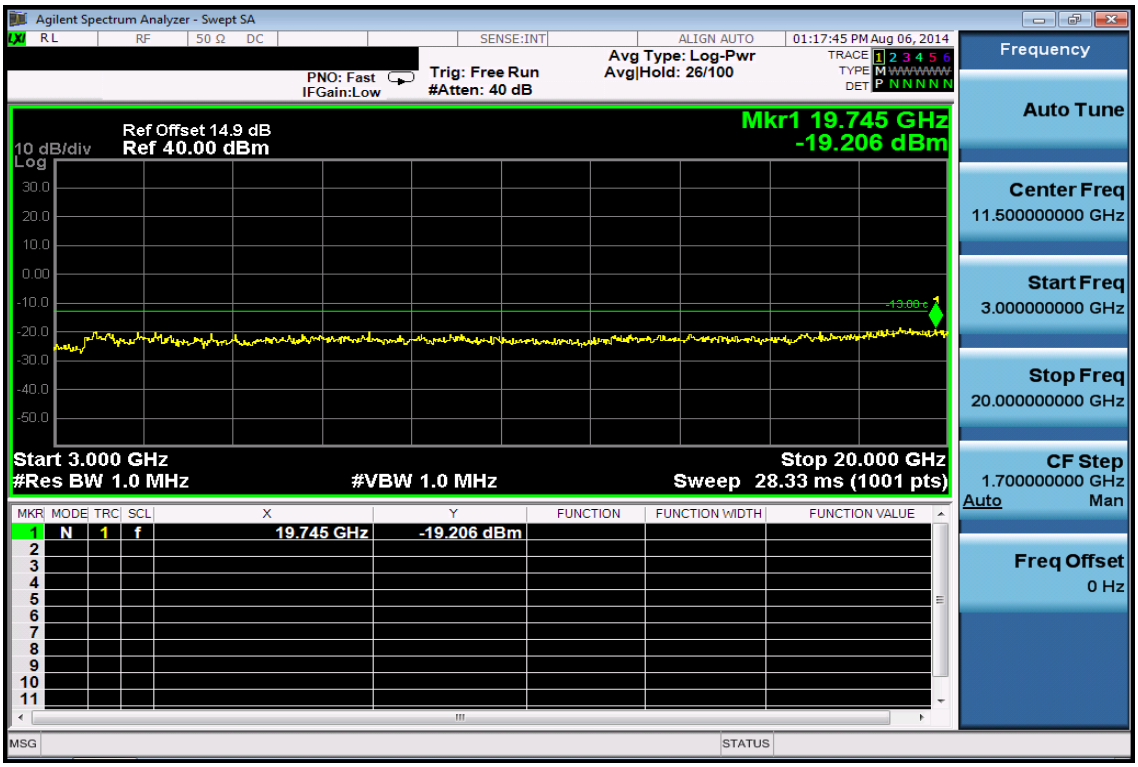


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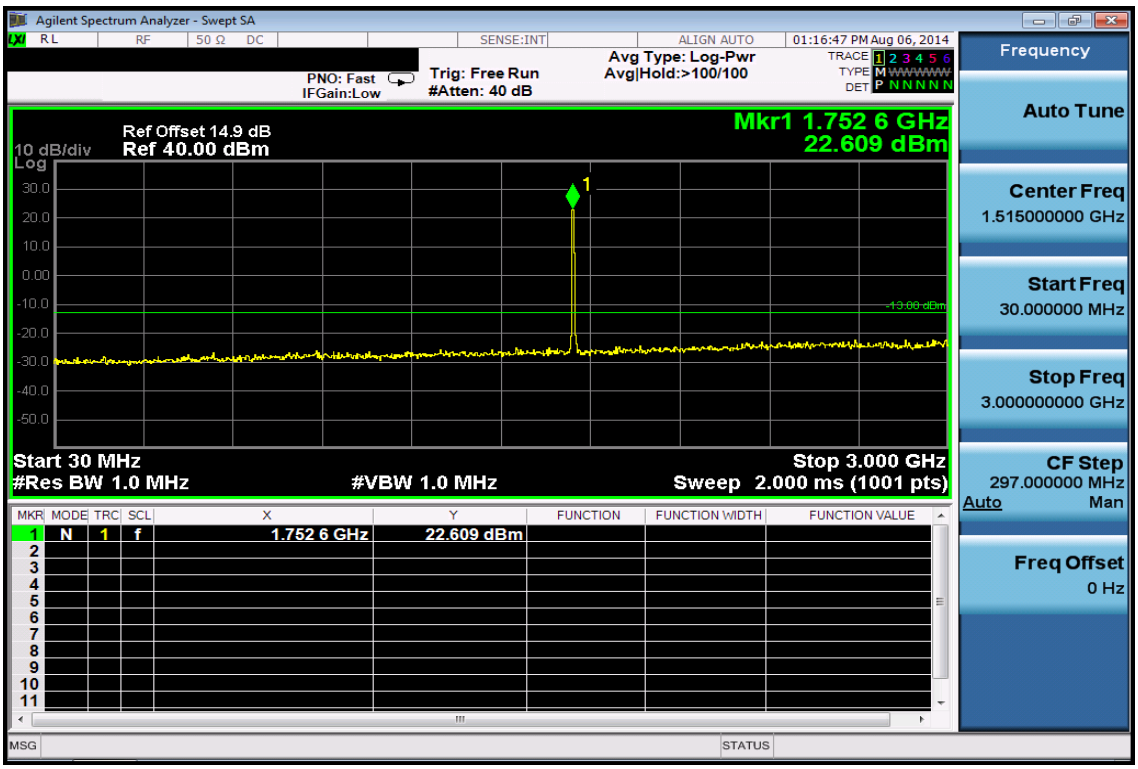
Figure 9-68: Out of Band emission at antenna terminals –HSUPA IV Channel Highest



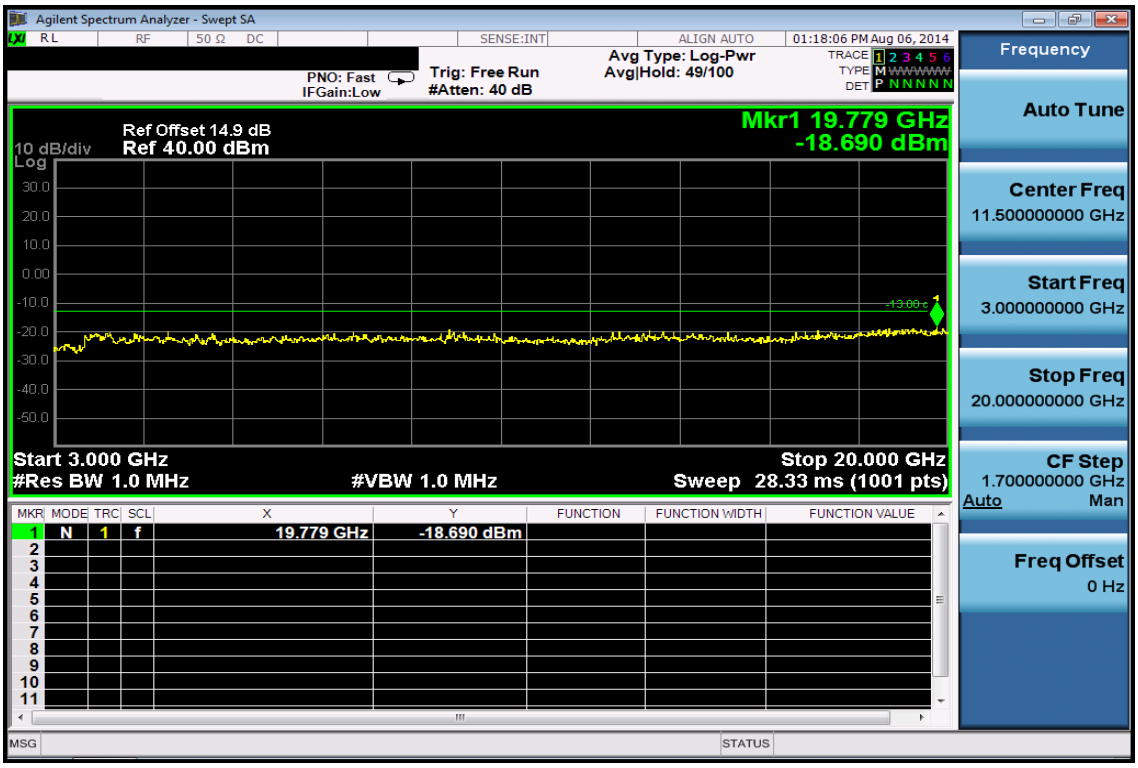


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Figure 9-69: Band edge emission at antenna terminals –HSUPA IV Channel Lowest

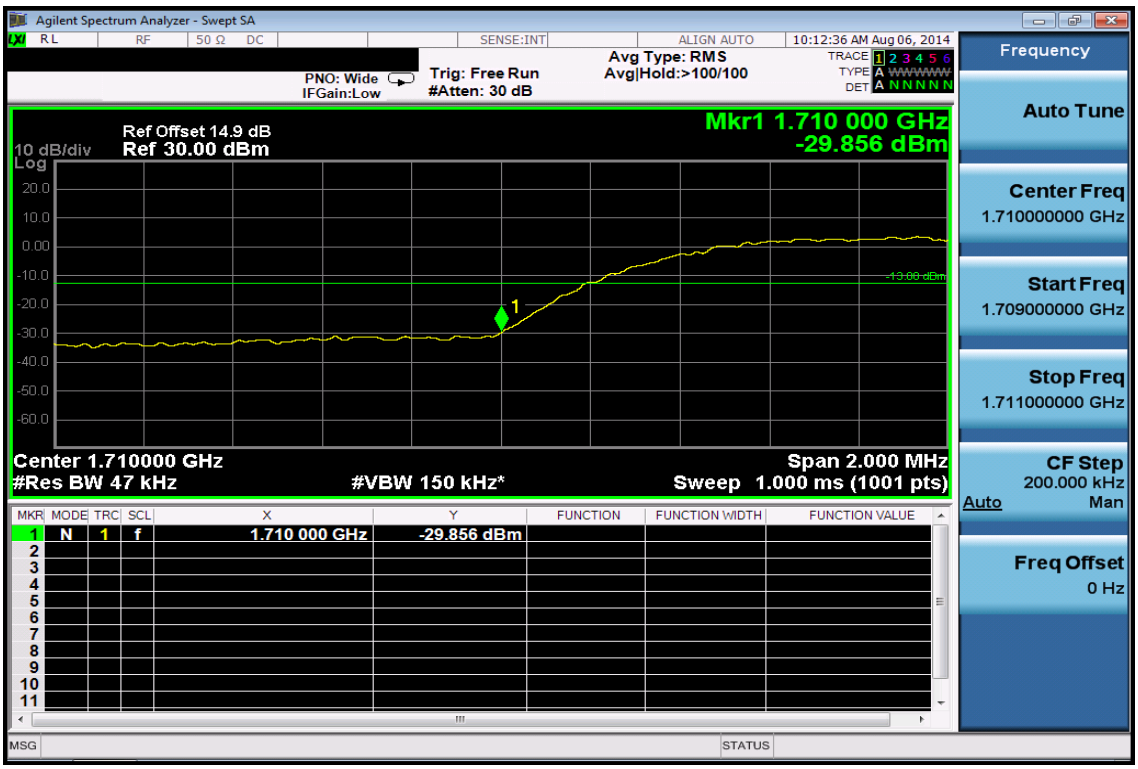

Figure 9-70: Band edge emission at antenna terminals –HSUPA IV Channel Highest

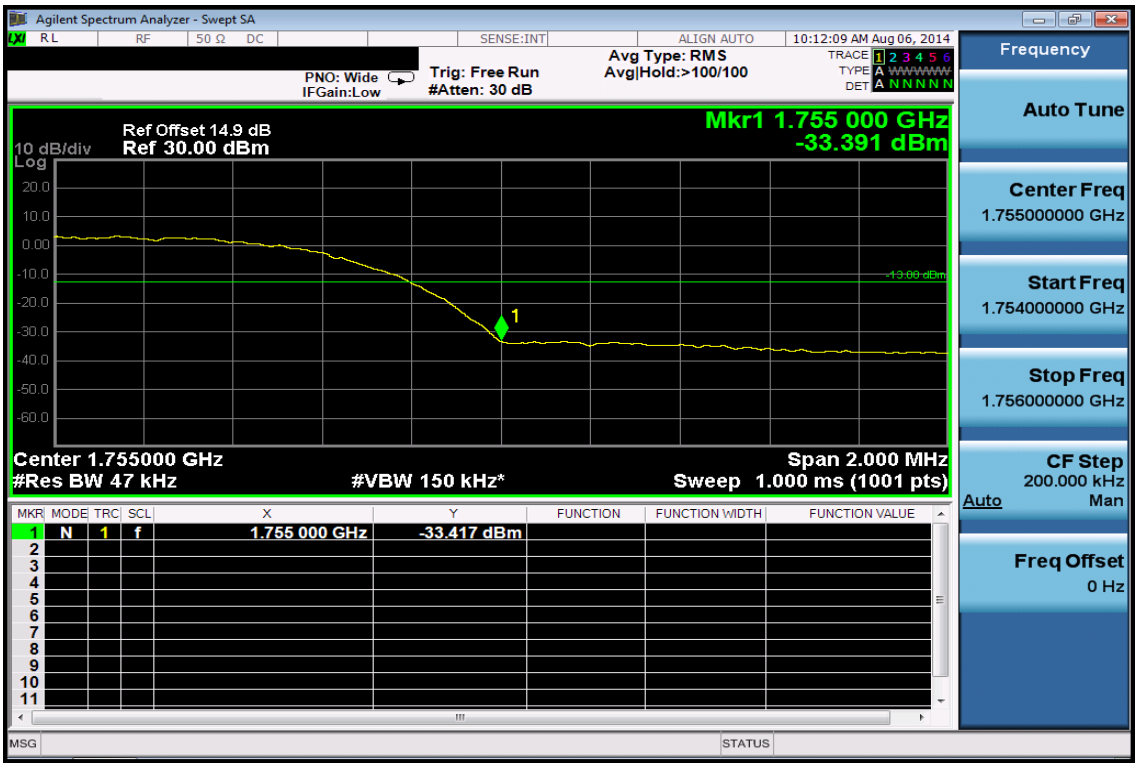

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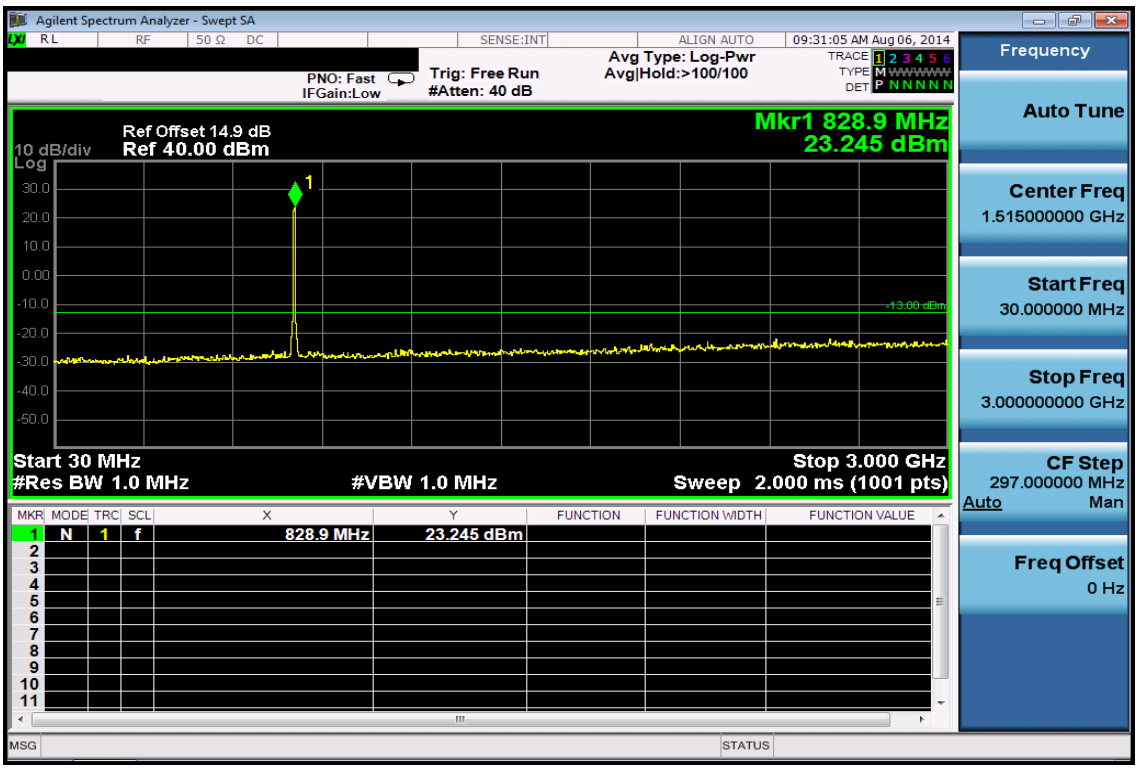
Figure 9-71: Out of Band emission at antenna terminals – HSUPA V Channel Lowest



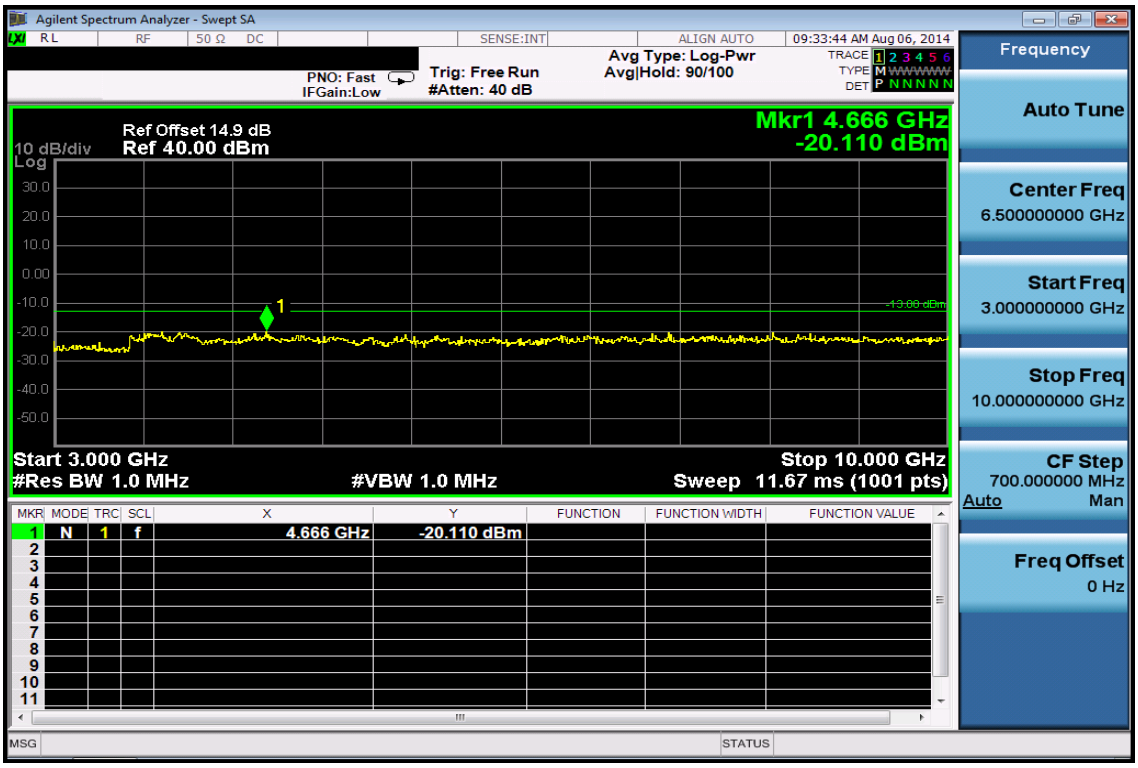


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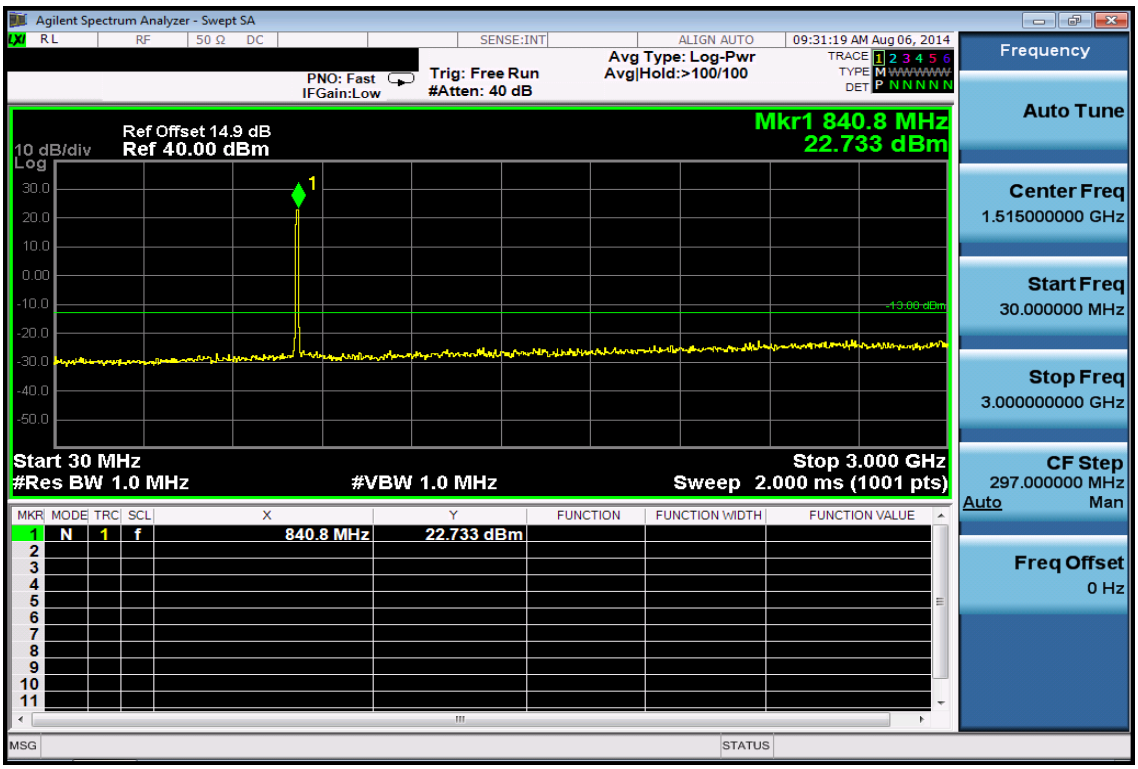
Figure 9-72: Out of Band emission at antenna terminals – HSUPA V Channel Mid



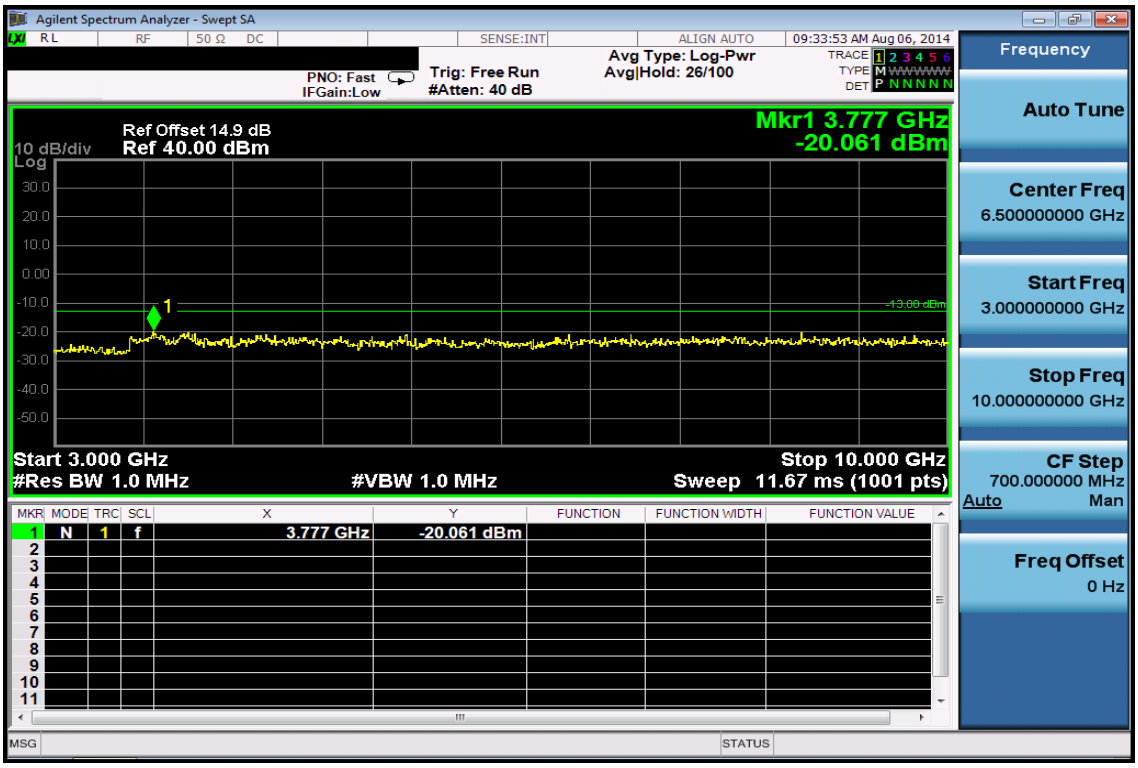


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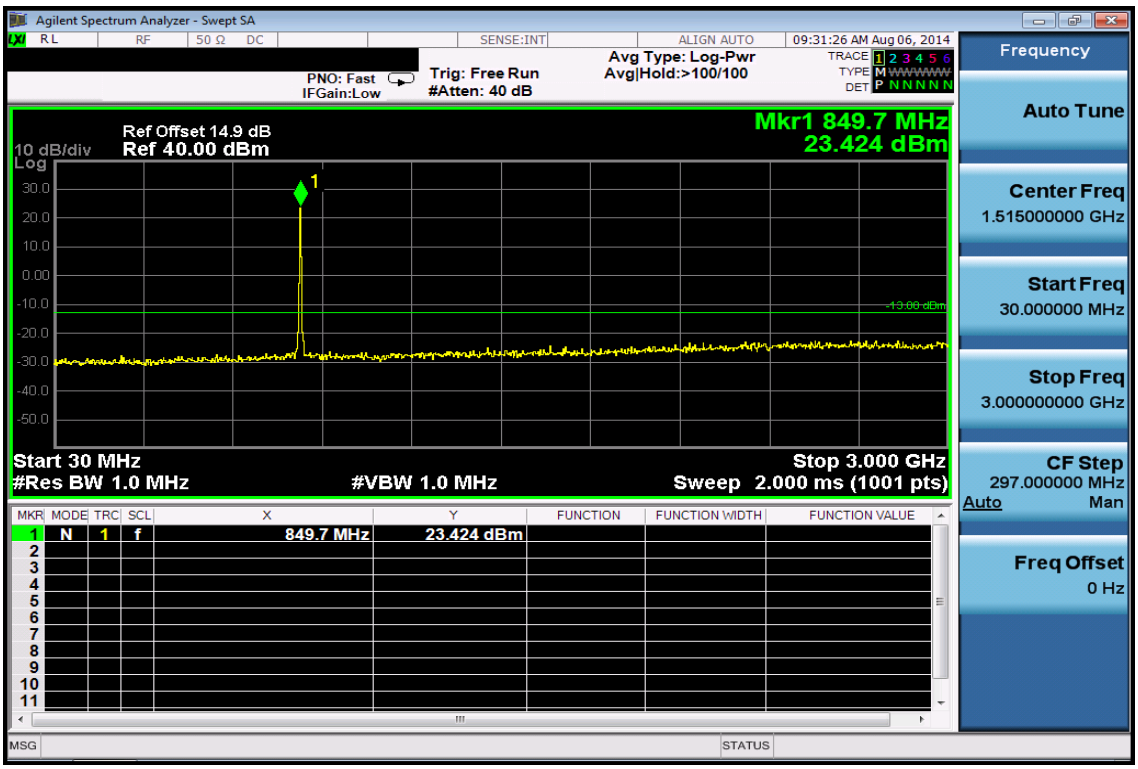
Figure 9-73: Out of Band emission at antenna terminals – HSUPA V Channel Highest



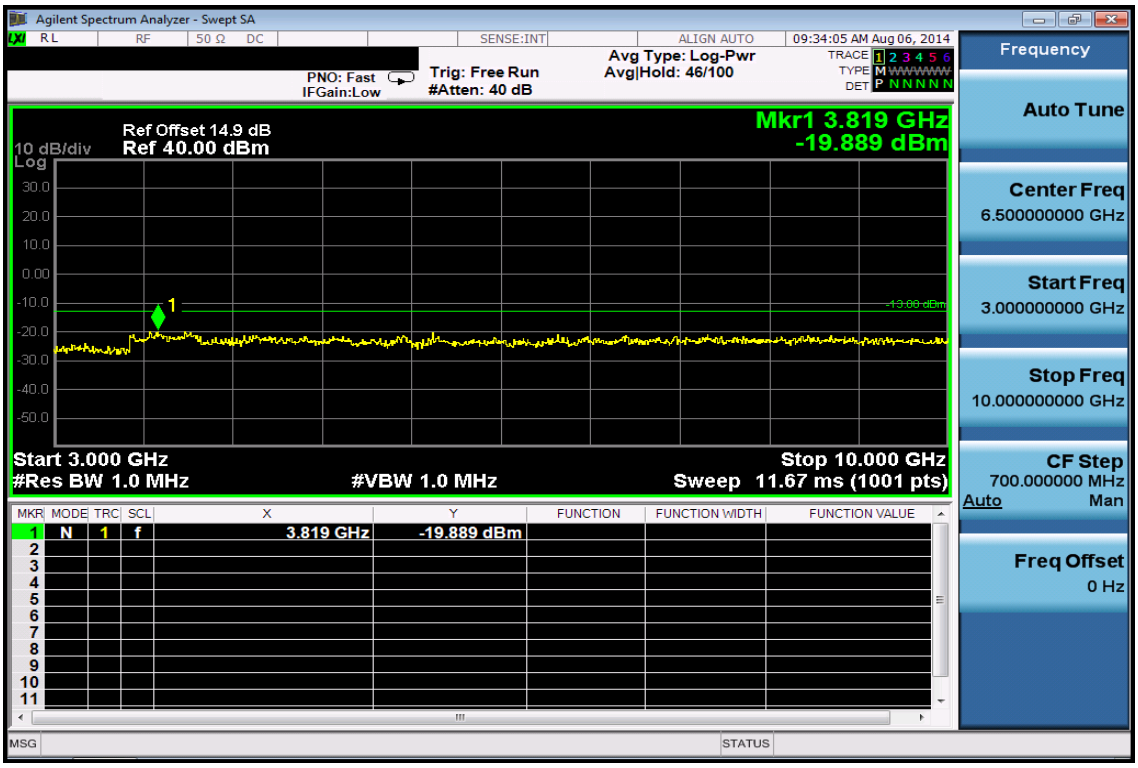


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Figure 9-74: Band edge emission at antenna terminals – HSUPA V Channel Lowest

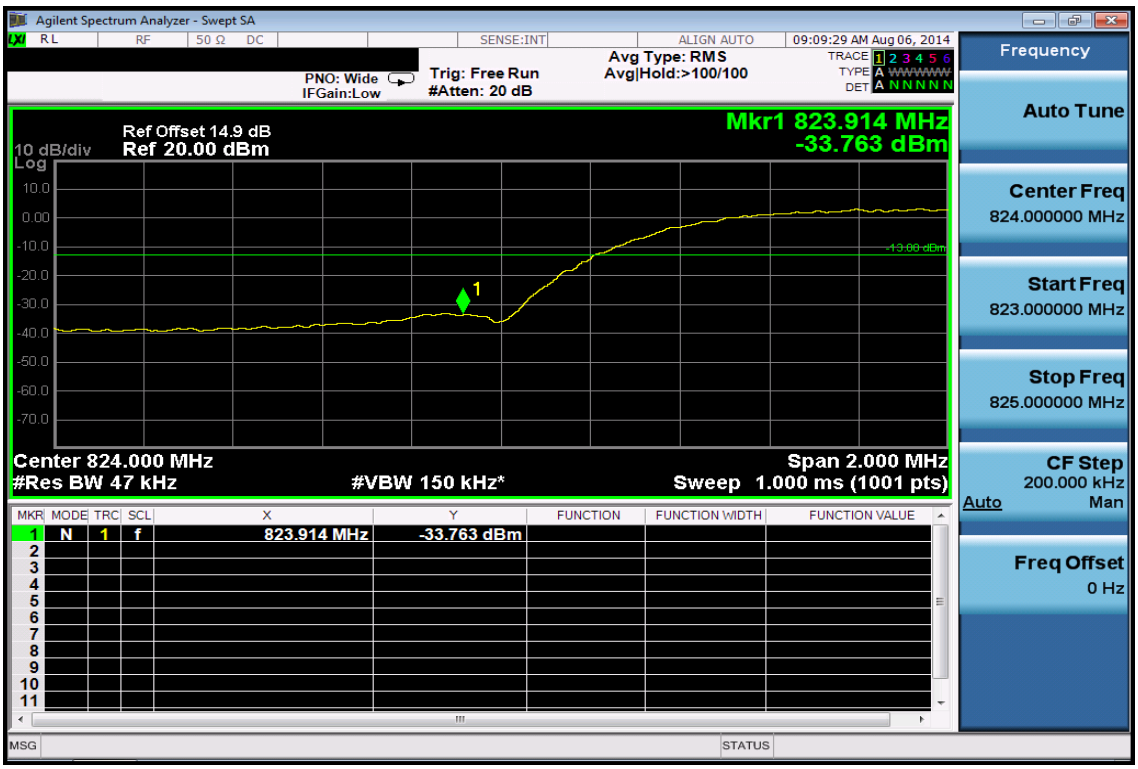
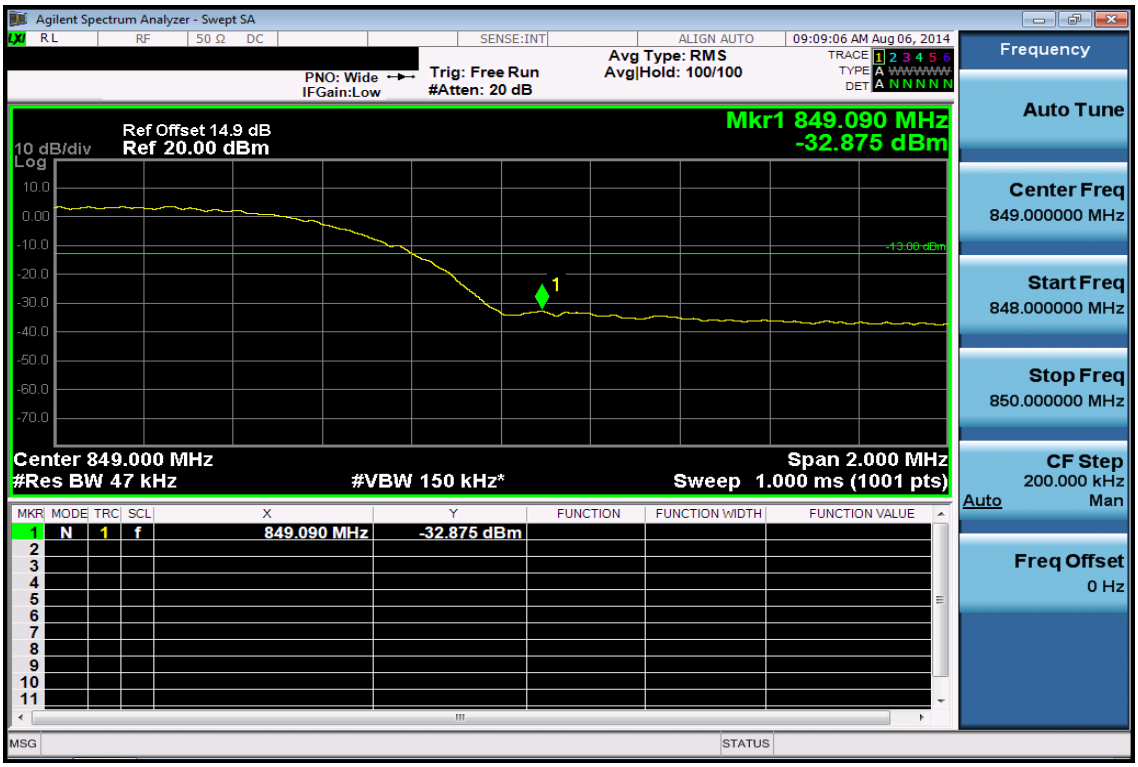


Figure 9-75: Band edge emission at antenna terminals – HSUPA V Channel Highest



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10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

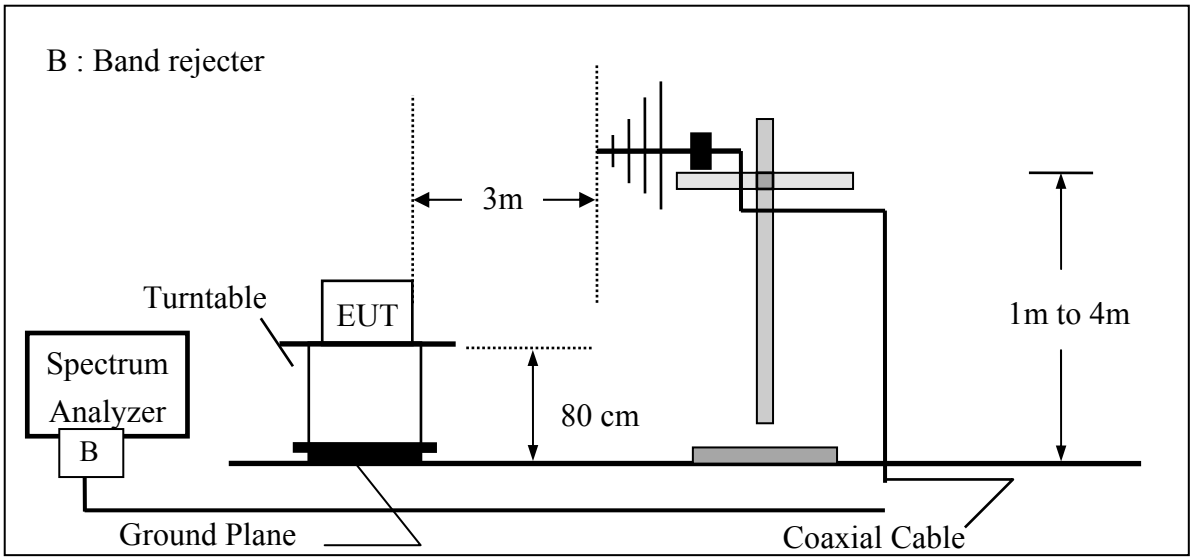
10.1. Standard Applicable:

According to FCC §2.1053,

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

10.2. EUT Setup (Block Diagram of Configuration):

Radiated Emission Test Set-Up, Frequency Below 1000MHz



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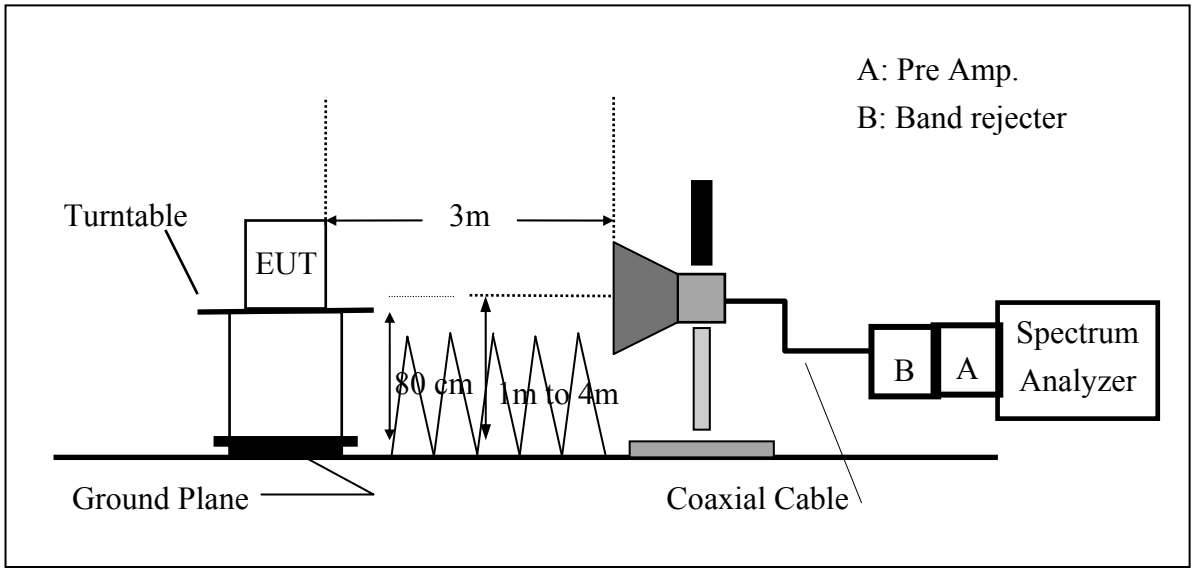
Radiated Emission Test Set-UP Frequency Over 1 GHz



10.3. Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

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

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

10.4. Measurement Equipment Used:

Refer to section 2.4 in this report

10.5. Measurement Result:

Refer to below tabular data sheets.

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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Band	:GPRS 850	Test Date	:2014-08-08
ARFCN	:CH 128	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
91.11	S	-51.76	-49.72	-0.85	-1.20	-13.00	-38.76
141.55	S	-60.01	-56.29	-2.37	-1.36	-13.00	-47.01
206.54	S	-63.73	-65.80	3.61	-1.54	-13.00	-50.73
256.98	S	-65.11	-66.95	3.57	-1.73	-13.00	-52.11
594.54	S	-67.59	-68.46	3.48	-2.61	-13.00	-54.59
769.14	S	-65.40	-65.96	3.44	-2.89	-13.00	-52.40
1648.40	H	-48.33	-47.67	3.75	-4.42	-13.00	-35.33
2472.60	H	-59.47	-57.74	3.72	-5.45	-13.00	-46.47
3296.80	H	---					
4121.00	H	---					
4945.20	H	---					
5769.40	H	---					
6593.60	H	---					
7417.80	H	---					
8242.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor..

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ARFCN	:CH 128	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
43.58	S	-51.37	-37.14	-13.35	-0.88	-13.00	-38.37
91.11	S	-63.11	-61.06	-0.85	-1.20	-13.00	-50.11
132.82	S	-69.49	-66.02	-2.14	-1.33	-13.00	-56.49
402.48	S	-68.81	-70.35	3.61	-2.08	-13.00	-55.81
597.45	S	-70.77	-71.61	3.46	-2.61	-13.00	-57.77
777.87	S	-68.10	-68.66	3.47	-2.91	-13.00	-55.10
1648.40	H	-57.13	-56.47	3.75	-4.42	-13.00	-44.13
2472.60	H	-58.52	-56.79	3.72	-5.45	-13.00	-45.52
3296.80	H	---					
4121.00	H	---					
4945.20	H	---					
5769.40	H	---					
6593.60	H	---					
7417.80	H	---					
8242.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:GPRS 850	Test Date	:2014-08-08
ARFCN	:CH 190	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
44.55	S	-62.44	-48.32	-13.22	-0.90	-13.00	-49.44
90.14	S	-52.76	-50.72	-0.84	-1.20	-13.00	-39.76
207.51	S	-64.07	-66.18	3.65	-1.54	-13.00	-51.07
366.59	S	-70.27	-71.91	3.65	-2.01	-13.00	-57.27
582.90	S	-69.66	-70.64	3.56	-2.58	-13.00	-56.66
771.08	S	-65.67	-66.23	3.45	-2.89	-13.00	-52.67
1673.20	H	-49.81	-49.07	3.71	-4.45	-13.00	-36.81
2509.80	H	-56.12	-54.40	3.78	-5.49	-13.00	-43.12
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:GPRS 850	Test Date	:2014-08-08
ARFCN	:CH 190	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
43.58	S	-51.63	-37.41	-13.35	-0.88	-13.00	-38.63
91.11	S	-63.05	-61.01	-0.85	-1.20	-13.00	-50.05
128.94	S	-69.19	-65.83	-2.04	-1.31	-13.00	-56.19
240.49	S	-74.00	-75.72	3.39	-1.67	-13.00	-61.00
417.03	S	-69.40	-70.83	3.56	-2.12	-13.00	-56.40
774.96	S	-67.48	-68.05	3.46	-2.90	-13.00	-54.48
1673.20	H	-56.35	-55.61	3.71	-4.45	-13.00	-43.35
2509.80	H	-57.23	-55.52	3.78	-5.49	-13.00	-44.23
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:GPRS 850	Test Date	:2014-08-08
ARFCN	:CH 251	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
90.14	S	-51.02	-48.98	-0.84	-1.20	-13.00	-38.02
226.91	S	-62.62	-64.66	3.66	-1.62	-13.00	-49.62
353.98	S	-69.87	-71.55	3.66	-1.99	-13.00	-56.87
591.63	S	-68.92	-69.82	3.50	-2.60	-13.00	-55.92
721.61	S	-66.07	-66.89	3.61	-2.79	-13.00	-53.07
770.11	S	-66.25	-66.81	3.45	-2.89	-13.00	-53.25
1697.60	H	-49.97	-49.16	3.66	-4.48	-13.00	-36.97
2546.40	H	-54.65	-53.00	3.89	-5.54	-13.00	-41.65
3395.20	H	---					
4244.00	H	---					
5092.80	H	---					
5941.60	H	---					
6790.40	H	---					
7639.20	H	---					
8488.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:GPRS 850	Test Date	:2014-08-08
ARFCN	:CH 251	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
44.55	S	-52.48	-38.37	-13.22	-0.90	-13.00	-39.48
90.14	S	-62.50	-60.47	-0.84	-1.20	-13.00	-49.50
157.07	S	-69.90	-66.63	-1.87	-1.40	-13.00	-56.90
390.84	S	-68.54	-70.11	3.63	-2.05	-13.00	-55.54
594.54	S	-69.89	-70.77	3.48	-2.61	-13.00	-56.89
783.69	S	-68.50	-69.08	3.49	-2.92	-13.00	-55.50
1697.60	H	-55.71	-54.89	3.66	-4.48	-13.00	-42.71
2546.40	H	-57.37	-55.72	3.89	-5.54	-13.00	-44.37
3395.20	H	---					
4244.00	H	---					
5092.80	H	---					
5941.60	H	---					
6790.40	H	---					
7639.20	H	---					
8488.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Band	:GPRS 1900	Test Date	:2014-08-08
ARFCN	:CH 512	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
89.17	S	-49.36	-49.26	1.08	-1.18	-13.00	-36.36
143.49	S	-57.56	-56.02	-0.18	-1.36	-13.00	-44.56
245.34	S	-60.21	-64.13	5.62	-1.69	-13.00	-47.21
386.96	S	-64.45	-68.19	5.78	-2.05	-13.00	-51.45
647.89	S	-64.53	-67.82	5.97	-2.68	-13.00	-51.53
768.17	S	-63.79	-66.50	5.59	-2.89	-13.00	-50.79
3700.40	H	-55.86	-57.98	8.93	-6.80	-13.00	-42.86
5550.60	H	---					
7400.80	H	---					
9251.00	H	---					
11101.20	H	---					
12951.40	H	---					
14801.60	H	---					
16651.80	H	---					
18502.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:GPRS 1900	Test Date	:2014-08-08
ARFCN	:CH 512	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
30.00	S	-53.97	-39.24	-13.93	-0.80	-13.00	-40.97
90.14	S	-60.72	-60.83	1.31	-1.20	-13.00	-47.72
159.98	S	-67.65	-66.65	0.41	-1.41	-13.00	-54.65
333.61	S	-65.40	-69.20	5.74	-1.94	-13.00	-52.40
603.27	S	-66.99	-69.98	5.62	-2.62	-13.00	-53.99
769.14	S	-65.65	-68.35	5.59	-2.89	-13.00	-52.65
3700.40	H	-55.96	-58.08	8.93	-6.80	-13.00	-42.96
5550.60	H	---					
7400.80	H	---					
9251.00	H	---					
11101.20	H	---					
12951.40	H	---					
14801.60	H	---					
16651.80	H	---					
18502.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:GPRS 1900	Test Date	:2014-08-08
ARFCN	:CH 661	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
90.14	S	-49.16	-49.28	1.31	-1.20	-13.00	-36.16
203.63	S	-61.69	-65.83	5.67	-1.53	-13.00	-48.69
255.04	S	-65.12	-69.10	5.71	-1.73	-13.00	-52.12
385.99	S	-61.26	-64.99	5.78	-2.05	-13.00	-48.26
601.33	S	-66.34	-69.33	5.60	-2.62	-13.00	-53.34
769.14	S	-63.06	-65.76	5.59	-2.89	-13.00	-50.06
3760.00	H	-54.67	-56.78	8.96	-6.85	-13.00	-41.67
5640.00	H	---					
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:GPRS 1900	Test Date	:2014-08-08
ARFCN	:CH 661	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
30.00	S	-53.81	-39.08	-13.93	-0.80	-13.00	-40.81
90.14	S	-61.28	-61.40	1.31	-1.20	-13.00	-48.28
333.61	S	-66.08	-69.87	5.74	-1.94	-13.00	-53.08
403.45	S	-65.54	-69.22	5.76	-2.08	-13.00	-52.54
585.81	S	-66.43	-69.53	5.69	-2.58	-13.00	-53.43
783.69	S	-65.32	-68.04	5.64	-2.92	-13.00	-52.32
3760.00	H	-57.83	-59.94	8.96	-6.85	-13.00	-44.83
5640.00	H	---					
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
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Operation Band	:GPRS 1900	Test Date	:2014-08-08
ARFCN	:CH 810	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
90.14	S	-49.62	-49.74	1.31	-1.20	-13.00	-36.62
159.01	S	-59.29	-58.25	0.37	-1.41	-13.00	-46.29
205.57	S	-61.75	-65.95	5.73	-1.53	-13.00	-48.75
394.72	S	-62.32	-66.03	5.78	-2.06	-13.00	-49.32
584.84	S	-67.55	-70.66	5.69	-2.58	-13.00	-54.55
725.49	S	-63.82	-66.75	5.72	-2.80	-13.00	-50.82
3819.60	H	-54.70	-56.79	9.00	-6.90	-13.00	-41.70
5729.40	H	---					
7639.20	H	---					
9549.00	H	---					
11458.80	H	---					
13368.60	H	---					
15278.40	H	---					
17188.20	H	---					
19098.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:GPRS 1900	Test Date	:2014-08-08
ARFCN	:CH 810	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
30.00	S	-54.03	-39.30	-13.93	-0.80	-13.00	-41.03
91.11	S	-61.50	-61.60	1.30	-1.20	-13.00	-48.50
156.10	S	-68.22	-67.05	0.24	-1.40	-13.00	-55.22
373.38	S	-65.70	-69.47	5.79	-2.02	-13.00	-52.70
600.36	S	-67.44	-70.42	5.60	-2.62	-13.00	-54.44
795.33	S	-65.28	-68.02	5.68	-2.94	-13.00	-52.28
3819.60	H	-56.09	-58.18	9.00	-6.90	-13.00	-43.09
5729.40	H	---					
7639.20	H	---					
9549.00	H	---					
11458.80	H	---					
13368.60	H	---					
15278.40	H	---					
17188.20	H	---					
19098.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: HSDPA II Mode

Operation Band	:HSDPA B2	Test Date	:2014-08-08
ARFCN	:CH 9262	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
41.64	S	-43.50	-31.18	-11.48	-0.84	-13.00	-30.50
251.16	S	-69.13	-73.12	5.69	-1.71	-13.00	-56.13
424.79	S	-70.78	-74.31	5.68	-2.15	-13.00	-57.78
553.80	S	-68.74	-72.15	5.91	-2.50	-13.00	-55.74
759.44	S	-64.21	-66.91	5.56	-2.87	-13.00	-51.21
987.39	S	-62.66	-62.68	3.41	-3.39	-13.00	-49.66
3704.80	H	-52.08	-54.20	8.93	-6.80	-13.00	-39.08
5557.20	H	---					
7409.60	H	---					
9262.00	H	---					
11114.40	H	---					
12966.80	H	---					
14819.20	H	---					
16671.60	H	---					
18524.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSDPA B2	Test Date	:2014-08-08
ARFCN	:CH 9262	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
40.67	S	-58.19	-45.74	-11.63	-0.81	-13.00	-45.19
90.14	S	-62.98	-63.10	1.31	-1.20	-13.00	-49.98
313.24	S	-69.94	-73.68	5.64	-1.90	-13.00	-56.94
546.04	S	-67.61	-71.06	5.94	-2.48	-13.00	-54.61
667.29	S	-63.98	-67.25	5.97	-2.70	-13.00	-50.98
917.55	S	-63.49	-65.87	5.67	-3.29	-13.00	-50.49
3704.80	H	-54.41	-56.53	8.93	-6.80	-13.00	-41.41
5557.20	H	---					
7409.60	H	---					
9262.00	H	---					
11114.40	H	---					
12966.80	H	---					
14819.20	H	---					
16671.60	H	---					
18524.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSDPA B2	Test Date	:2014-08-08
ARFCN	:CH 9400	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
40.67	S	-43.34	-30.90	-11.63	-0.81	-13.00	-30.34
256.98	S	-69.42	-73.40	5.72	-1.73	-13.00	-56.42
449.04	S	-70.25	-73.63	5.60	-2.22	-13.00	-57.25
527.61	S	-68.03	-71.53	5.93	-2.43	-13.00	-55.03
688.63	S	-64.19	-67.41	5.94	-2.73	-13.00	-51.19
958.29	S	-62.65	-64.40	5.10	-3.35	-13.00	-49.65
3760.00	H	-54.09	-56.20	8.96	-6.85	-13.00	-41.09
5640.00	H	---					
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSDPA B2	Test Date	:2014-08-08
ARFCN	:CH 9400	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
40.67	S	-57.73	-45.29	-11.63	-0.81	-13.00	-44.73
89.17	S	-62.80	-62.69	1.08	-1.18	-13.00	-49.80
314.21	S	-70.01	-73.75	5.64	-1.90	-13.00	-57.01
555.74	S	-68.06	-71.45	5.90	-2.51	-13.00	-55.06
687.66	S	-64.29	-67.51	5.95	-2.73	-13.00	-51.29
942.77	S	-63.46	-65.73	5.60	-3.33	-13.00	-50.46
3760.00	H	-55.57	-57.68	8.96	-6.85	-13.00	-42.57
5640.00	H	---					
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
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Operation Band	:HSDPA B2	Test Date	:2014-08-08
ARFCN	:CH 9538	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
41.64	S	-43.64	-31.32	-11.48	-0.84	-13.00	-30.64
87.23	S	-66.58	-65.94	0.51	-1.15	-13.00	-53.58
385.99	S	-70.53	-74.27	5.78	-2.05	-13.00	-57.53
515.00	S	-68.79	-72.32	5.92	-2.39	-13.00	-55.79
700.27	S	-63.48	-66.67	5.93	-2.74	-13.00	-50.48
935.98	S	-63.18	-65.48	5.62	-3.32	-13.00	-50.18
3815.20	H	-54.15	-56.24	8.99	-6.90	-13.00	-41.15
5722.80	H	---					
7630.40	H	---					
9538.00	H	---					
11445.60	H	---					
13353.20	H	---					
15260.80	H	---					
17168.40	H	---					
19076.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSDPA B2	Test Date	:2014-08-08
ARFCN	:CH 9538	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
41.64	S	-58.01	-45.69	-11.48	-0.84	-13.00	-45.01
89.17	S	-63.22	-63.11	1.08	-1.18	-13.00	-50.22
205.57	S	-69.64	-73.84	5.73	-1.53	-13.00	-56.64
542.16	S	-67.36	-70.82	5.93	-2.47	-13.00	-54.36
704.15	S	-64.12	-67.27	5.90	-2.75	-13.00	-51.12
942.77	S	-63.30	-65.58	5.60	-3.33	-13.00	-50.30
3815.20	H	-54.85	-56.95	8.99	-6.90	-13.00	-41.85
5722.80	H	---					
7630.40	H	---					
9538.00	H	---					
11445.60	H	---					
13353.20	H	---					
15260.80	H	---					
17168.40	H	---					
19076.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
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Radiated Spurious Emission Measurement Result: HSDPA IV Mode

Operation Band	:HSUPA B4	Test Date	:2014-08-08
ARFCN	:CH 1312	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
40.67	S	-46.59	-34.14	-11.63	-0.81	-13.00	-33.59
91.11	S	-64.00	-64.10	1.30	-1.20	-13.00	-51.00
419.94	S	-70.05	-73.62	5.70	-2.13	-13.00	-57.05
547.01	S	-69.40	-72.85	5.94	-2.48	-13.00	-56.40
759.44	S	-64.09	-66.78	5.56	-2.87	-13.00	-51.09
926.28	S	-64.15	-66.49	5.65	-3.30	-13.00	-51.15
3424.80	H	-46.97	-49.01	8.59	-6.55	-13.00	-33.97
5137.20	H	---					
6849.60	H	---					
8562.00	H	---					
10274.40	H	---					
11986.80	H	---					
13699.20	H	---					
15411.60	H	---					
17124.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSUPA B4	Test Date	:2014-08-08
ARFCN	:CH 1312	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
40.67	S	-62.36	-49.92	-11.63	-0.81	-13.00	-49.36
88.20	S	-61.41	-61.04	0.80	-1.17	-13.00	-48.41
261.83	S	-68.74	-72.69	5.70	-1.75	-13.00	-55.74
534.40	S	-68.16	-71.64	5.93	-2.45	-13.00	-55.16
697.36	S	-64.46	-67.66	5.93	-2.74	-13.00	-51.46
941.80	S	-63.64	-65.92	5.61	-3.32	-13.00	-50.64
3424.80	H	-45.81	-47.85	8.59	-6.55	-13.00	-32.81
5137.20	H	---					
6849.60	H	---					
8562.00	H	---					
10274.40	H	---					
11986.80	H	---					
13699.20	H	---					
15411.60	H	---					
17124.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
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Operation Band	:HSUPA B4	Test Date	:2014-08-08
ARFCN	:CH 1413	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
39.70	S	-42.63	-30.05	-11.78	-0.80	-13.00	-29.63
90.14	S	-62.59	-62.70	1.31	-1.20	-13.00	-49.59
333.61	S	-70.51	-74.30	5.74	-1.94	-13.00	-57.51
517.91	S	-69.16	-72.68	5.92	-2.40	-13.00	-56.16
693.48	S	-63.94	-67.15	5.94	-2.73	-13.00	-50.94
937.92	S	-62.84	-65.13	5.62	-3.32	-13.00	-49.84
3465.20	H	-47.32	-49.44	8.70	-6.59	-13.00	-34.32
5197.80	H	---					
6930.40	H	---					
8663.00	H	---					
10395.60	H	---					
12128.20	H	---					
13860.80	H	---					
15593.40	H	---					
17326.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSUPA B4	Test Date	:2014-08-08
ARFCN	:CH 1413	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
40.67	S	-60.48	-48.04	-11.63	-0.81	-13.00	-47.48
87.23	S	-61.17	-60.53	0.51	-1.15	-13.00	-48.17
269.59	S	-68.63	-72.42	5.56	-1.78	-13.00	-55.63
556.71	S	-66.70	-70.08	5.89	-2.51	-13.00	-53.70
708.03	S	-64.11	-67.22	5.87	-2.76	-13.00	-51.11
938.89	S	-62.91	-65.21	5.61	-3.32	-13.00	-49.91
3465.20	H	-45.67	-47.78	8.70	-6.59	-13.00	-32.67
5197.80	H	---					
6930.40	H	---					
8663.00	H	---					
10395.60	H	---					
12128.20	H	---					
13860.80	H	---					
15593.40	H	---					
17326.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSUPA B4	Test Date	:2014-08-08
ARFCN	:CH 1513	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
40.67	S	-45.86	-33.42	-11.63	-0.81	-13.00	-32.86
88.20	S	-65.35	-64.98	0.80	-1.17	-13.00	-52.35
254.07	S	-69.52	-73.50	5.71	-1.72	-13.00	-56.52
524.70	S	-69.04	-72.55	5.92	-2.42	-13.00	-56.04
692.51	S	-63.81	-67.02	5.94	-2.73	-13.00	-50.81
920.46	S	-62.17	-64.54	5.66	-3.29	-13.00	-49.17
3505.20	H	-47.75	-49.93	8.80	-6.62	-13.00	-34.75
5257.80	H	---					
7010.40	H	---					
8763.00	H	---					
10515.60	H	---					
12268.20	H	---					
14020.80	H	---					
15773.40	H	---					
17526.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSUPA B4	Test Date	:2014-08-08
ARFCN	:CH 1513	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
40.67	S	-60.61	-48.17	-11.63	-0.81	-13.00	-47.61
89.17	S	-61.70	-61.59	1.08	-1.18	-13.00	-48.70
208.48	S	-68.29	-72.57	5.83	-1.55	-13.00	-55.29
548.95	S	-67.08	-70.53	5.94	-2.49	-13.00	-54.08
701.24	S	-63.56	-66.74	5.92	-2.74	-13.00	-50.56
912.70	S	-62.85	-65.25	5.68	-3.28	-13.00	-49.85
3505.20	H	-48.31	-50.48	8.80	-6.62	-13.00	-35.31
5257.80	H	---					
7010.40	H	---					
8763.00	H	---					
10515.60	H	---					
12268.20	H	---					
14020.80	H	---					
15773.40	H	---					
17526.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: HSDPA V Mode

Operation Band	:HSDPA B5	Test Date	:2014-08-08
ARFCN	:CH 4132	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
41.64	S	-43.26	-28.79	-13.63	-0.84	-13.00	-30.26
91.11	S	-56.41	-54.36	-0.85	-1.20	-13.00	-43.41
242.43	S	-54.36	-56.11	3.42	-1.68	-13.00	-41.36
290.93	S	-70.07	-71.66	3.43	-1.84	-13.00	-57.07
497.54	S	-68.38	-69.79	3.74	-2.34	-13.00	-55.38
721.61	S	-65.71	-66.53	3.61	-2.79	-13.00	-52.71
1652.80	H	-52.08	-51.41	3.75	-4.42	-13.00	-39.08
2479.20	H	-57.19	-55.46	3.73	-5.46	-13.00	-44.19
3305.60	H	---					
4132.00	H	---					
4958.40	H	---					
5784.80	H	---					
6611.20	H	---					
7437.60	H	---					
8264.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSDPA B5	Test Date	:2014-08-08
ARFCN	:CH 4132	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
45.52	S	-57.27	-43.28	-13.08	-0.92	-13.00	-44.27
91.11	S	-54.38	-52.34	-0.85	-1.20	-13.00	-41.38
257.95	S	-65.01	-66.84	3.57	-1.74	-13.00	-52.01
353.01	S	-69.48	-71.15	3.66	-1.98	-13.00	-56.48
558.65	S	-68.95	-70.16	3.73	-2.51	-13.00	-55.95
685.72	S	-66.40	-67.48	3.80	-2.72	-13.00	-53.40
1652.80	H	-58.14	-57.46	3.75	-4.42	-13.00	-45.14
2479.20	H	-57.11	-55.38	3.73	-5.46	-13.00	-44.11
3305.60	H	---					
4132.00	H	---					
4958.40	H	---					
5784.80	H	---					
6611.20	H	---					
7437.60	H	---					
8264.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSDPA B5	Test Date	:2014-08-08
ARFCN	:CH 4183	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
41.64	S	-43.51	-29.04	-13.63	-0.84	-13.00	-30.51
91.11	S	-54.53	-52.49	-0.85	-1.20	-13.00	-41.53
256.98	S	-63.98	-65.81	3.57	-1.73	-13.00	-50.98
353.01	S	-68.93	-70.60	3.66	-1.98	-13.00	-55.93
557.68	S	-69.77	-70.99	3.73	-2.51	-13.00	-56.77
693.48	S	-66.36	-67.42	3.79	-2.73	-13.00	-53.36
1673.20	H	-53.52	-52.78	3.71	-4.45	-13.00	-40.52
2509.80	H	-57.95	-56.23	3.78	-5.49	-13.00	-44.95
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSDPA B5	Test Date	:2014-08-08
ARFCN	:CH 4183	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
54.25	S	-56.46	-44.00	-11.46	-1.00	-13.00	-43.46
91.11	S	-53.39	-51.34	-0.85	-1.20	-13.00	-40.39
183.26	S	-64.59	-64.66	1.54	-1.47	-13.00	-51.59
353.01	S	-70.88	-72.55	3.66	-1.98	-13.00	-57.88
544.10	S	-69.44	-70.75	3.78	-2.48	-13.00	-56.44
687.66	S	-66.08	-67.15	3.80	-2.73	-13.00	-53.08
1673.20	H	-60.31	-59.57	3.71	-4.45	-13.00	-47.31
2509.80	H	-58.08	-56.37	3.78	-5.49	-13.00	-45.08
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSDPA B5	Test Date	:2014-08-08
ARFCN	:CH 4233	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
40.67	S	-43.32	-28.72	-13.78	-0.81	-13.00	-30.32
92.08	S	-54.99	-52.93	-0.85	-1.20	-13.00	-41.99
183.26	S	-64.90	-64.97	1.54	-1.47	-13.00	-51.90
254.07	S	-64.96	-66.79	3.56	-1.72	-13.00	-51.96
498.51	S	-67.38	-68.79	3.75	-2.35	-13.00	-54.38
701.24	S	-66.35	-67.38	3.77	-2.74	-13.00	-53.35
1693.20	H	-54.36	-53.56	3.67	-4.48	-13.00	-41.36
2539.80	H	-55.09	-53.43	3.87	-5.53	-13.00	-42.09
3386.40	H	---					
4233.00	H	---					
5079.60	H	---					
5926.20	H	---					
6772.80	H	---					
7619.40	H	---					
8466.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSDPA B5	Test Date	:2014-08-08
ARFCN	:CH 4233	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
54.25	S	-55.72	-43.25	-11.46	-1.00	-13.00	-42.72
91.11	S	-53.37	-51.32	-0.85	-1.20	-13.00	-40.37
183.26	S	-64.31	-64.38	1.54	-1.47	-13.00	-51.31
353.01	S	-69.24	-70.91	3.66	-1.98	-13.00	-56.24
498.51	S	-67.21	-68.62	3.75	-2.35	-13.00	-54.21
697.36	S	-65.39	-66.44	3.78	-2.74	-13.00	-52.39
1693.20	H	-60.42	-59.61	3.67	-4.48	-13.00	-47.42
2539.80	H	-54.99	-53.33	3.87	-5.53	-13.00	-41.99
3386.40	H	---					
4233.00	H	---					
5079.60	H	---					
5926.20	H	---					
6772.80	H	---					
7619.40	H	---					
8466.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

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11. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

11.1. Standard Applicable:

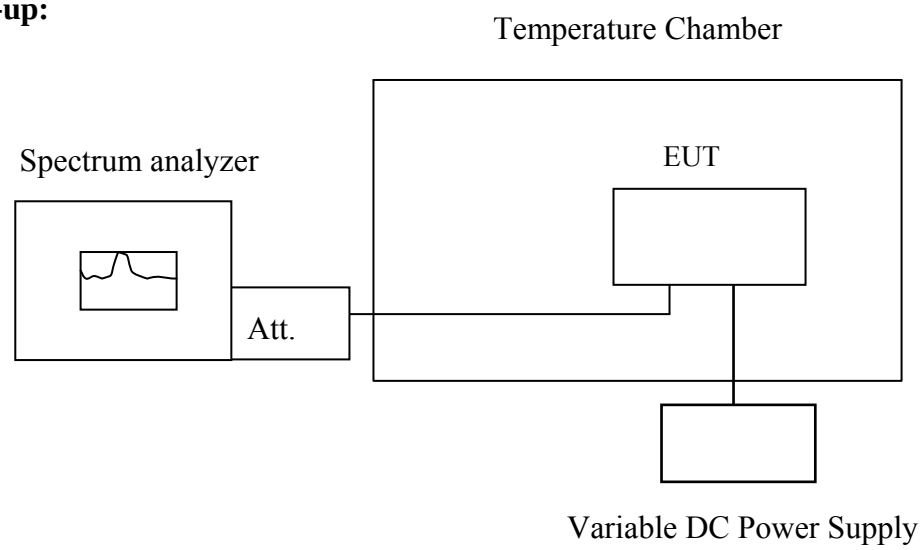
According to FCC §2.1055(a) (1)

Frequency Tolerance: +/-2.5ppm for 850MHz band

+/-2.5ppm for 1900MHz band

+/-2.5ppm for 1700MHz band

11.2. Test Set-up:



Note: Measurement setup for testing on Antenna connector

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11.3. Measurement Procedure:

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25˚C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to –30˚C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10˚C increased per stage until the highest temperature of +50˚C reached.

11.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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11.5. Measurement Result:

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
3.7	50	836600001	2	2091
3.7	40	836599997	-2	2091
3.7	30	836599996	-3	2091
3.7	20	836599999	0	2091
3.7	10	836599999	0	2091
3.7	0	836599997	-2	2091
3.7	-10	836600000	1	2091
3.7	-20	836600002	3	2091
3.7	-30	836600001	2	2091

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
3.7	50	1879999997	-5	4700
3.7	40	1879999997	-5	4700
3.7	30	1879999999	-3	4700
3.7	20	1880000002	0	4700
3.7	10	1879999997	-5	4700
3.7	0	1879999998	-4	4700
3.7	-10	1880000000	-2	4700
3.7	-20	1880000001	-1	4700
3.7	-30	1880000003	1	4700

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Reference Frequency: WCDMA II Mid Channel 1880				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
3.7	50	1879999996	-4	4700
3.7	40	1879999999	-1	4700
3.7	30	1879999997	-3	4700
3.7	20	1880000000	0	4700
3.7	10	1880000001	1	4700
3.7	0	1880000000	0	4700
3.7	-10	1880000003	3	4700
3.7	-20	1879999998	-2	4700
3.7	-30	1879999997	-3	4700

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
3.7	50	836599996	-3	2091
3.7	40	836599999	0	2091
3.7	30	836599997	-2	2091
3.7	20	836599999	0	2091
3.7	10	836599999	0	2091
3.7	0	836600002	3	2091
3.7	-10	836599997	-2	2091
3.7	-20	836600001	2	2091
3.7	-30	836600003	4	2091

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Reference Frequency: WCDMA IV Mid Channel 1732.6				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
3.7	50	1732599998	3	2091
3.7	40	1732599997	2	2091
3.7	30	1732599999	4	2091
3.7	20	1732599995	0	2091
3.7	10	1732599999	4	2091
3.7	0	1732599998	3	2091
3.7	-10	1732600000	5	2091
3.7	-20	1732600002	7	2091
3.7	-30	1732600004	9	2091

Note: The battery is rated 3.7V dc.

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12. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

12.1. Standard Applicable:

According to FCC §2.1055(d) (2)

Frequency Tolerance: +/-2.5ppm for 850MHz band

+/-2.5ppm for 1900MHz band

+/-2.5ppm for 1700MHz band

12.2. Test Set-up:

Refer to section 11.2 in this report

12.3. Measurement Procedure:

Set chamber temperature to 25℃. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

12.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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12.5. Measurement Result:

GPRS850

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
4.1	20	836599997	-2	2091
3.7	20	836599999	0	2091
3.5	20	836600000	1	2091
2.7 (End point)	20	836599998	-1	2091

GPRS1900

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
4.1	20	1879999996	-6	4700
3.7	20	1880000002	0	4700
3.5	20	1879999999	-3	4700
2.7 (End point)	20	1879999998	-4	4700

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WCDMA II

Reference Frequency: WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
4.1	20	1880000002	2	4700
3.7	20	1880000000	0	4700
3.5	20	1879999999	-1	4700
2.7 (End point)	20	1879999996	-4	4700

WCDMA IV

Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
4.1	20	1732599998	3	2091
3.7	20	1732599995	0	2091
3.5	20	1732599996	1	2091
2.7 (End point)	20	1732599997	2	2091

WCDMA V

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
4.1	20	836599997	-2	2091
3.7	20	836599999	0	2091
3.5	20	836600003	4	2091
2.7 (End point)	20	836599998	-1	2091

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13. PEAK TO AVERAGE RATIO

13.1. Standard Applicable:

According FCC 24.232(d), FCC 27.53 (d) (5) – The peak-to-average ration (PAR) of the transmission may not exceed 13dB.

13.2. Test SET-UP (Block Diagram of Configuration):

Refer to section 2.4 in this report

13.3. Measurement Procedure:

KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:

Set resolution/measurement bandwidth ≥ signal's occupied bandwidth; & internal =1ms

Set the number of counts to a value that stabilizes the measured CCDF curve.

13.4. Measurement Equipment Used:

Refer to section 2.4 in this report

13.5. Measurement Result:

Refer to next page for tabular, and plot results

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13.5.1 Tabular Results:

	Peak-to-Average Ratio					
TEST CONDITIONS	Channel 512(L)		Channel 661(M)		Channel 810(H)	
	1850.2MHz		1880.0MHz		1909.8MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
GPRS 1900	10.12	13	9.74	13	10.32	13
EDGE 1900	12.82	13	12.49	13	12.47	13

	Peak-to-Average Ratio					
TEST CONDITIONS	Channel 9262(L)		Channel 9400(M)		Channel 9538(H)	
	1852.4MHz		1880.0MHz		1907.6MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
WCDMA Band II	2.64	13	3.19	13	3.25	13
HSUPA Band II	3.49	13	3.88	13	3.92	13
HSDPA Band II	3.62	13	4.00	13	3.91	13

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13.5.2 Measurement Results:

Figure 13-4: GPRS 1900 Channel Low

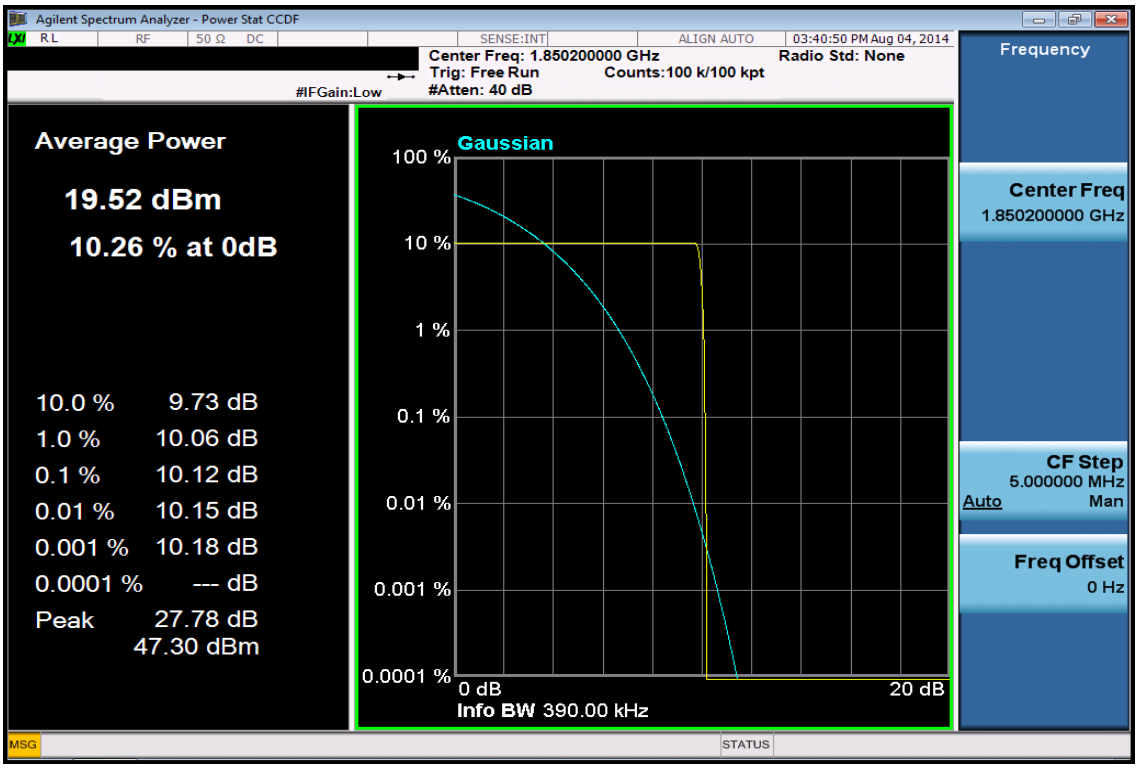

Figure 13-5: GPRS 1900 Channel Mid

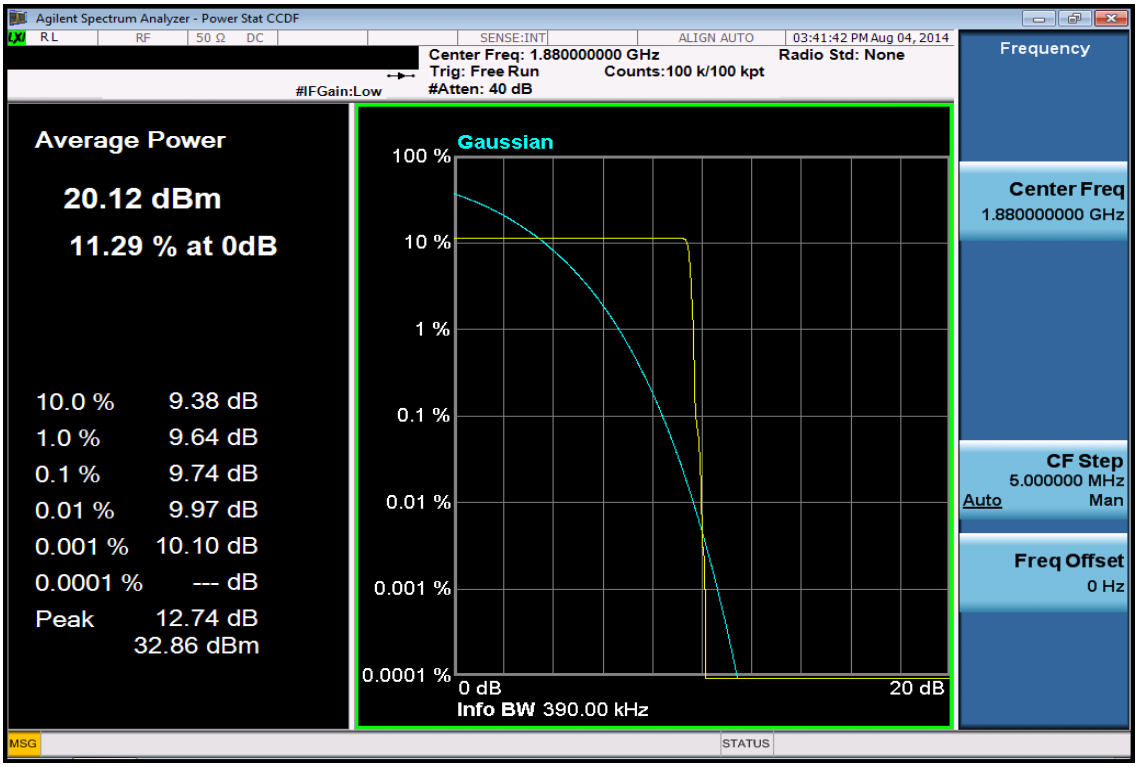

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Figure 13-6: GPRS 1900 Channel High

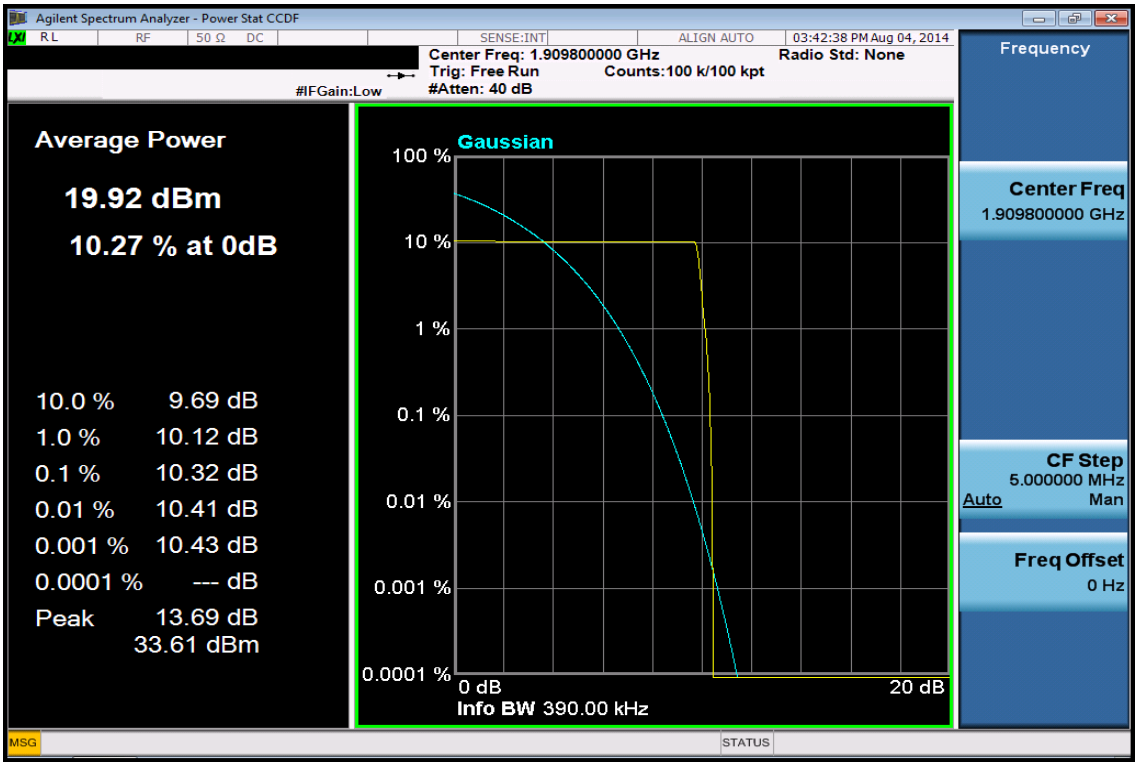

Figure 13-16: EDGE 1900 Channel Low

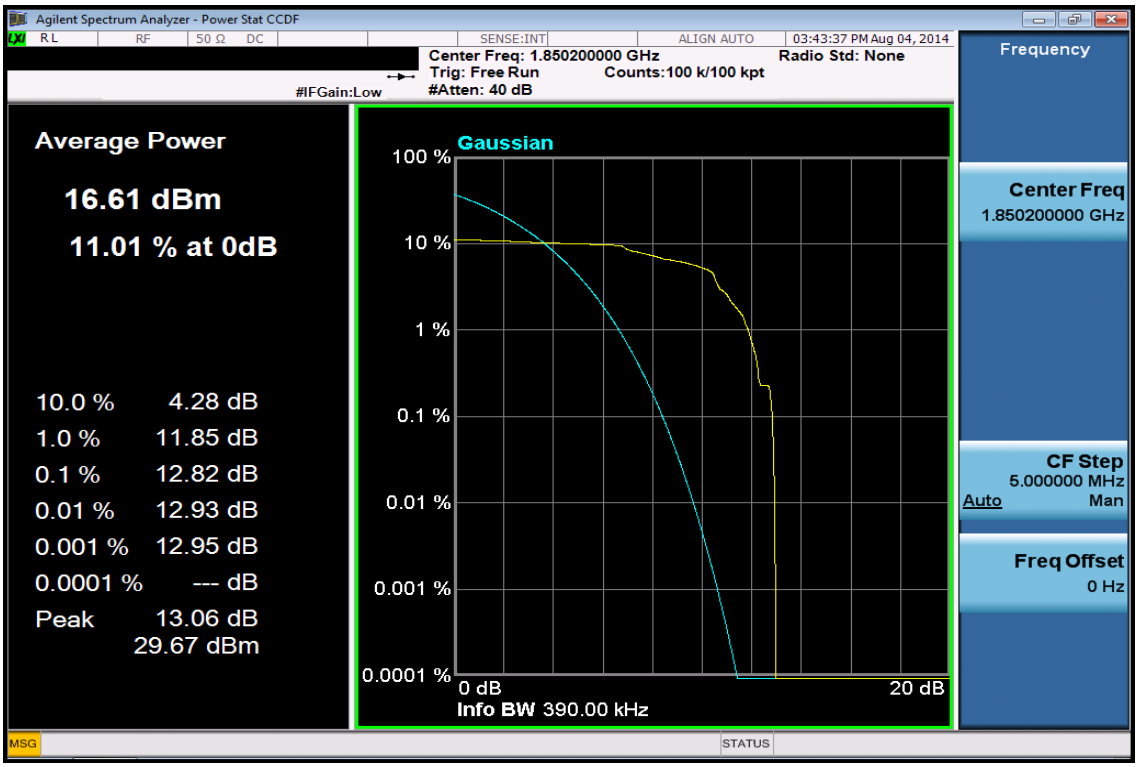

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Figure 13-17 EDGE 1900 Channel Mid

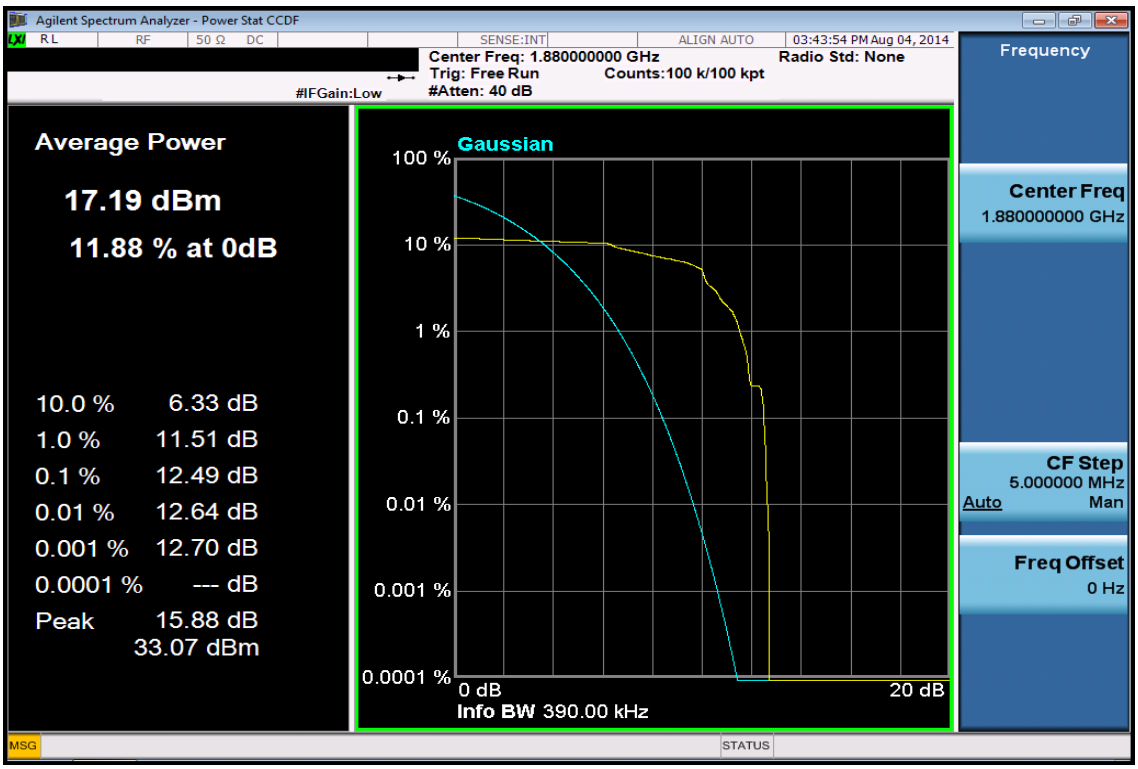

Figure 13-18: EDGE 1900 Channel High

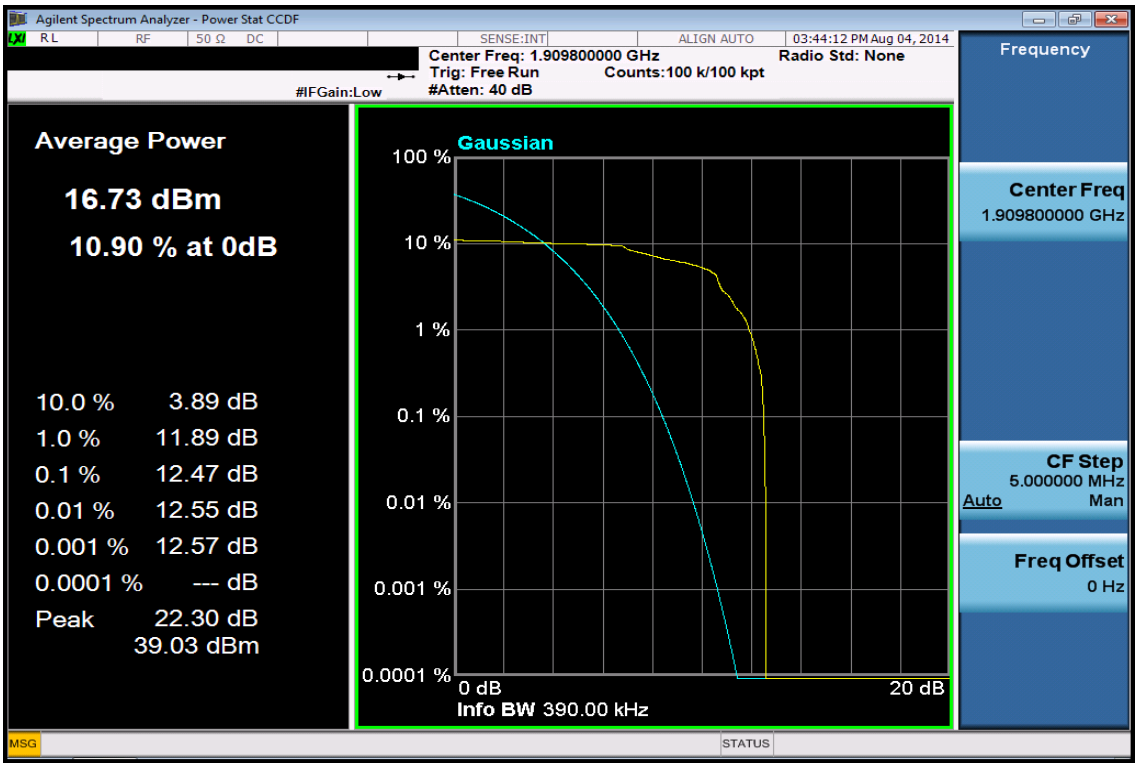

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Figure 13-19: WCDMA Band II Channel Low

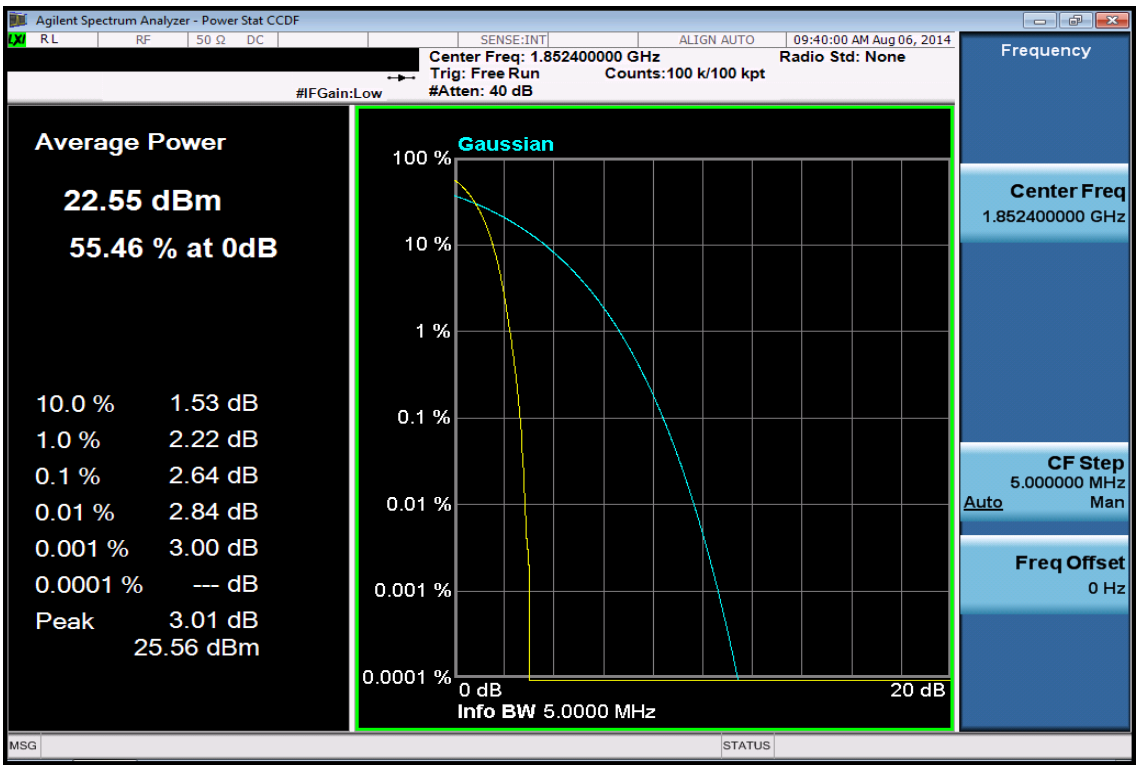

Figure 13-20: WCDMA Band II Channel Mid

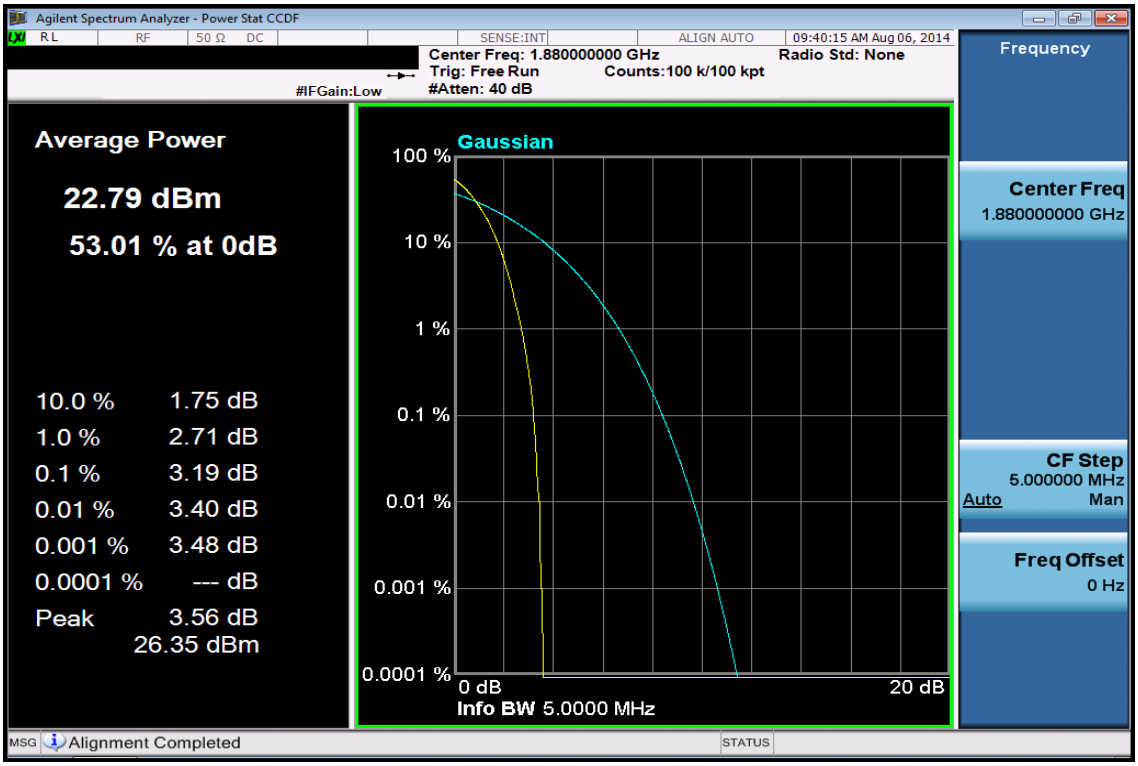

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Figure 13-21: WCDMA Band II Channel High

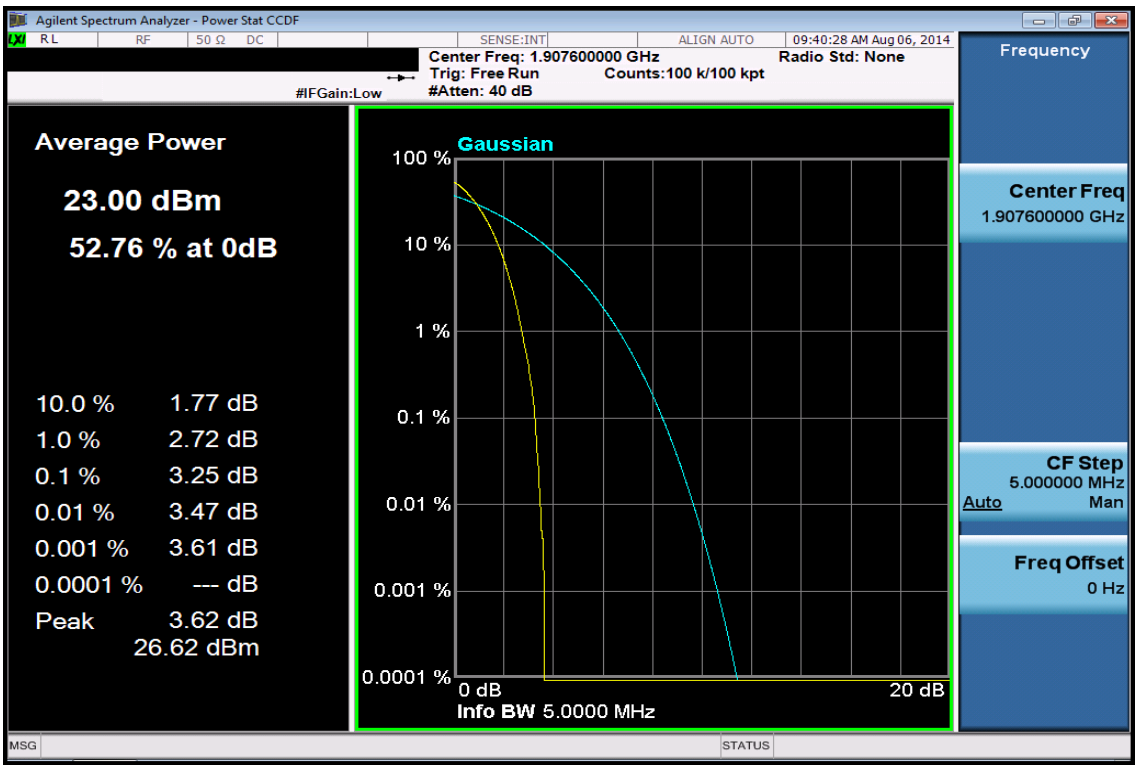

Figure 13-28: HSDPA Band II Channel Low

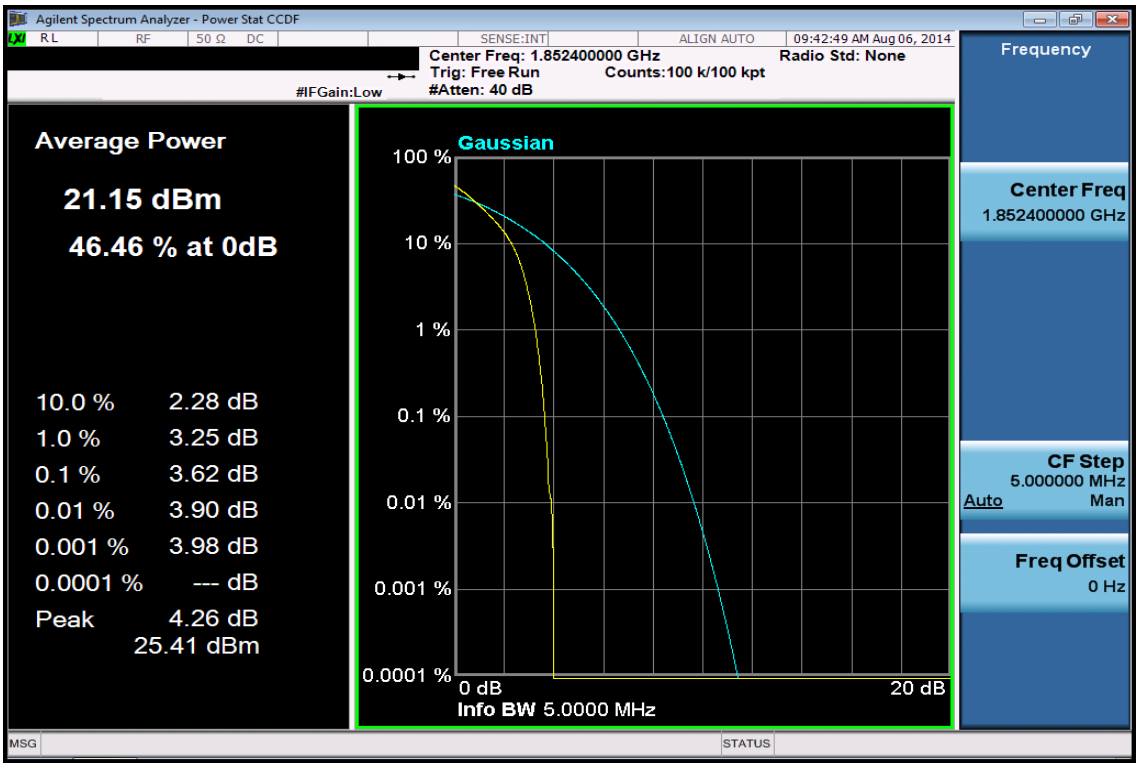

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Figure 13-29: HSDPA Band II Channel Mid

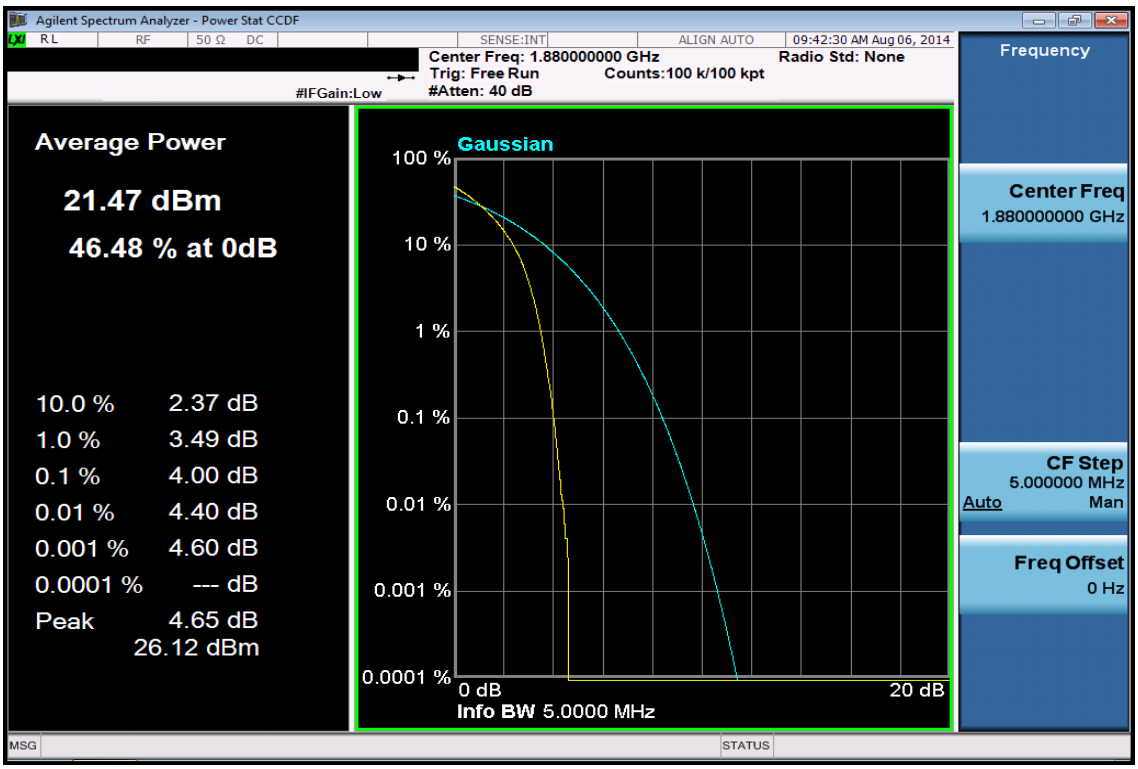

Figure 13-30: HSDPA Band II Channel High

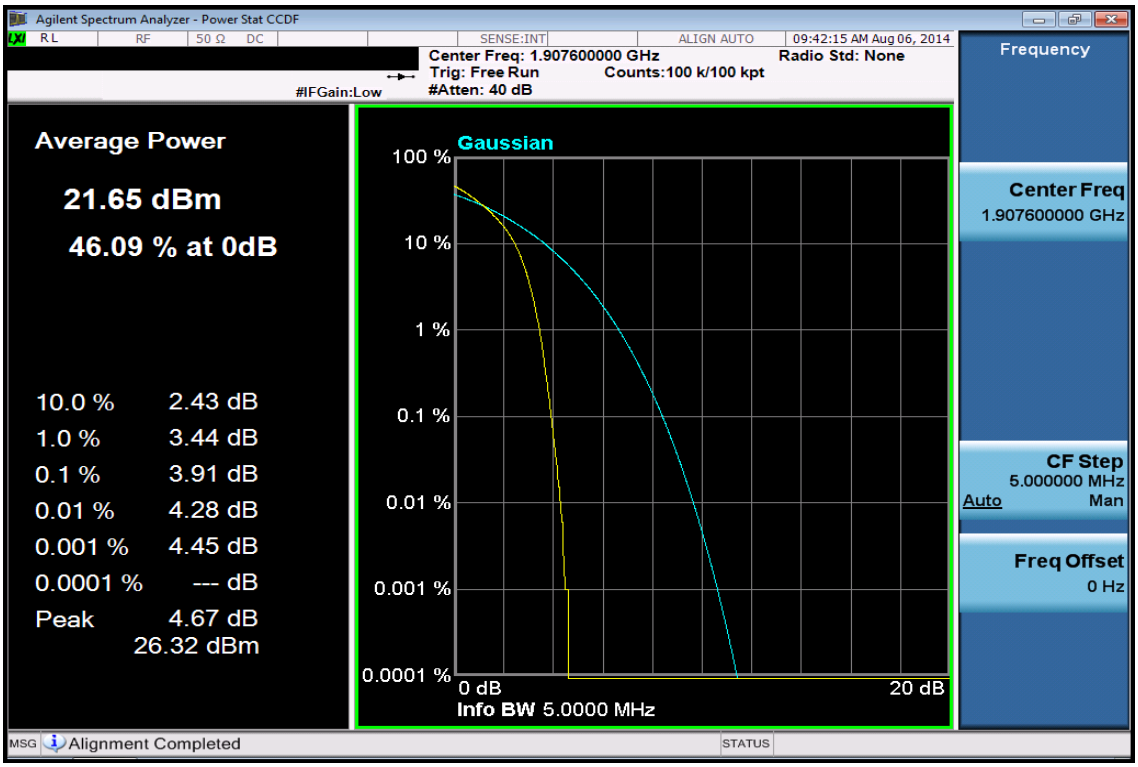

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Figure 13-37: HSUPA Band II Channel Low

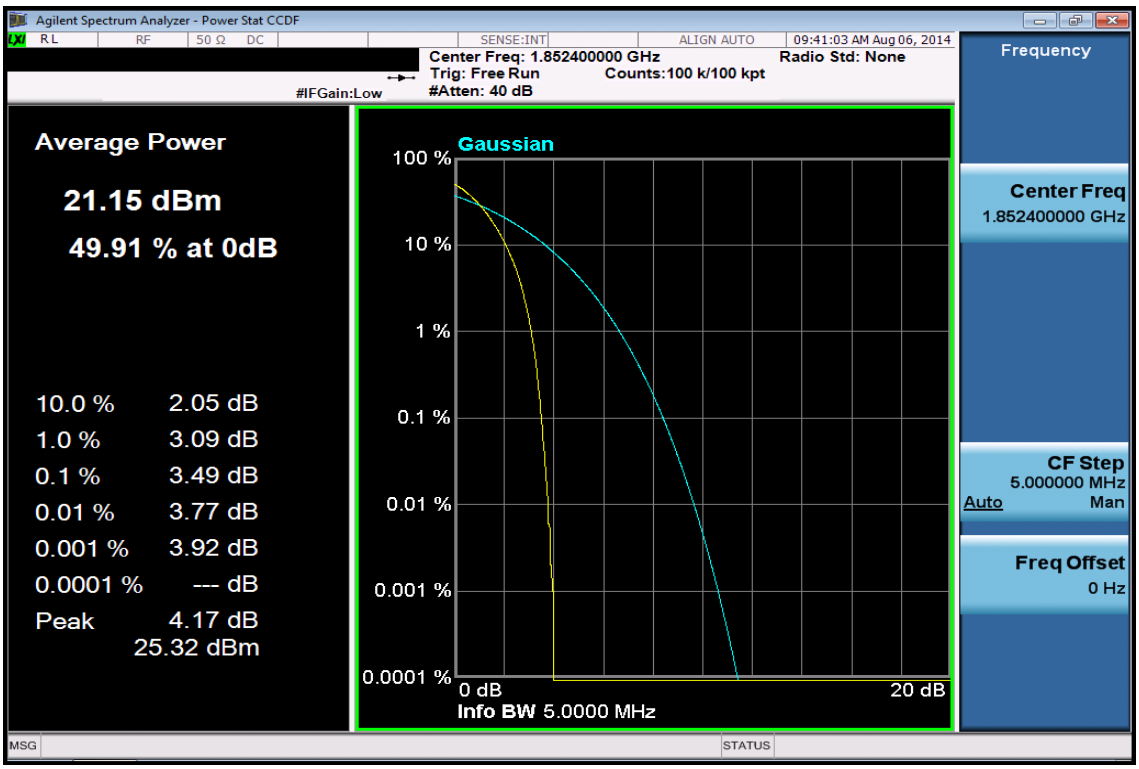

Figure 13-38: HSUPA Band II Channel Mid

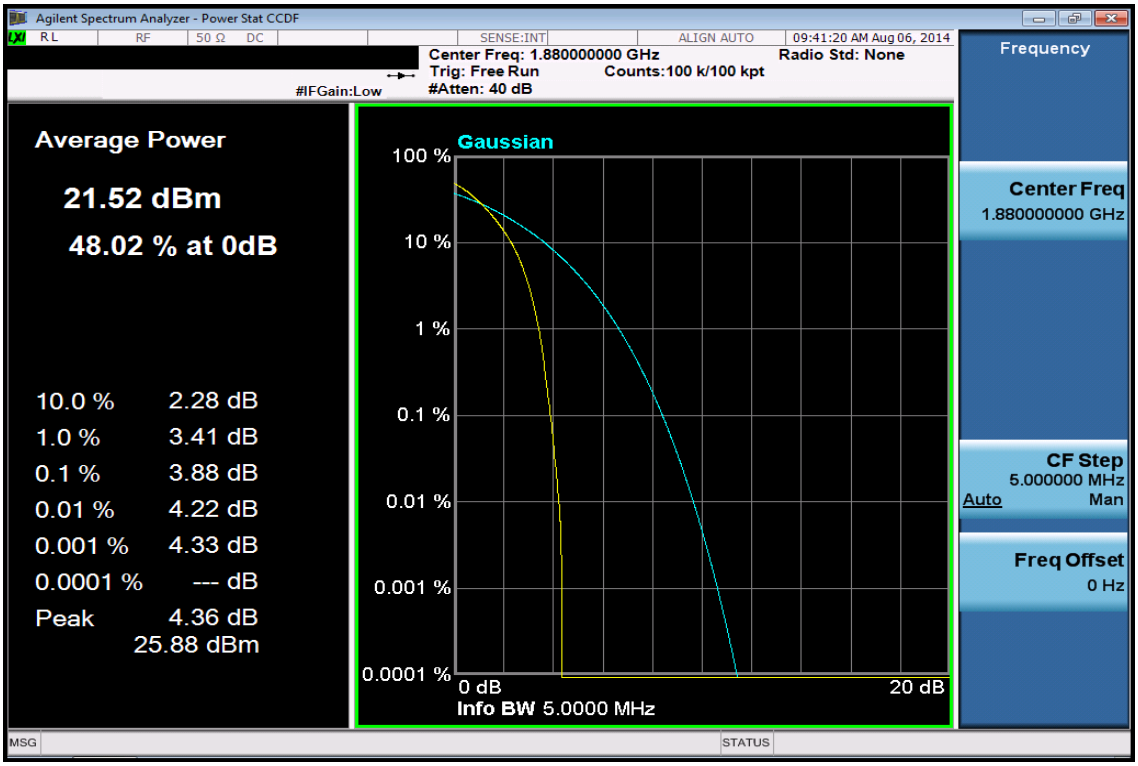

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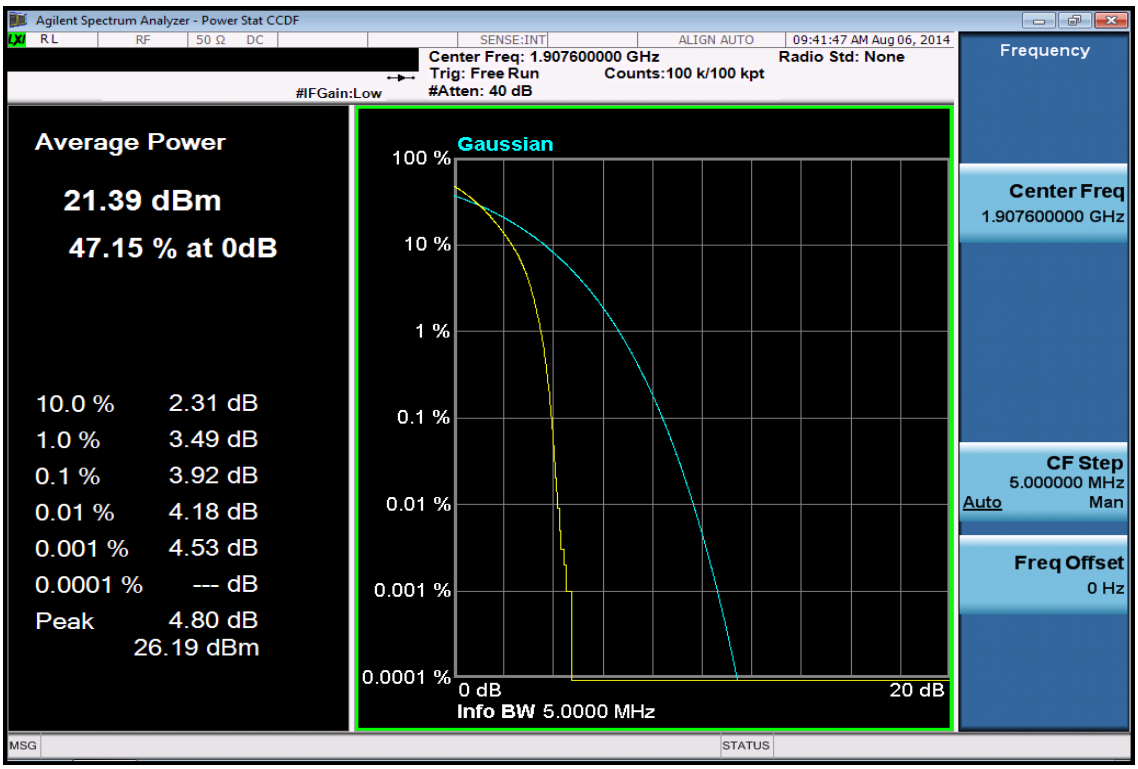
Figure 13-39: HSUPA Band II Channel High



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