

10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

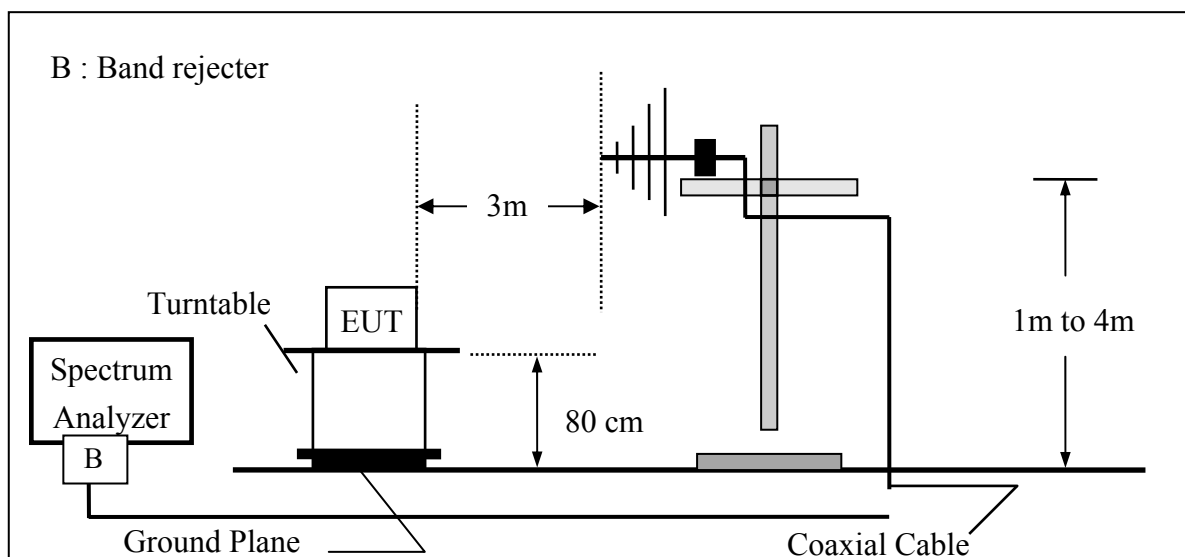
10.1. Standard Applicable:

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §27.53(g) (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). §27.53 (m) (4) shall not be less than $55 + 10 \log$ (mean output power in watt) dBc below the mean power output outside a license's frequency block (-25dBm).

10.2. EUT Setup (Block Diagram of Configuration):

Radiated Emission Test Set-Up, Frequency Below 1000MHz



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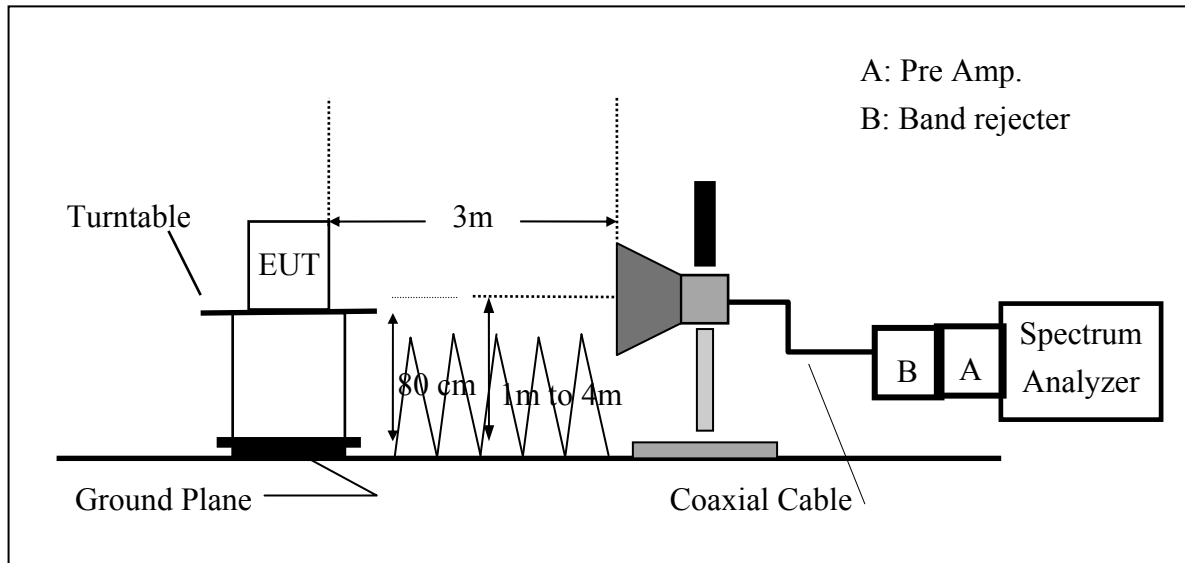
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Radiated Emission Test Set-UP Frequency Over 1 GHz



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.

$$ERP = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$$

$$EIRP = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$$

10.4. Measurement Equipment Used:

Refer to section 2.4 in this report

10.5. Measurement Result:

Refer to attach tabular data sheets.

For radiated plot of test data, please refer to Appendix 1, page 676

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

ARFCN	:CH 128	Test Date	:2014-11-18
Operation Band	:GSM 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
41.64	S	-66.70	-53.86	-12.00	-0.84	-13.00	-53.70
287.05	S	-72.31	-73.86	3.38	-1.83	-13.00	-59.31
440.31	S	-70.83	-72.52	3.88	-2.19	-13.00	-57.83
640.13	S	-67.16	-68.37	3.88	-2.67	-13.00	-54.16
769.14	S	-46.01	-46.82	3.70	-2.89	-13.00	-33.01
938.89	S	-60.62	-60.68	3.38	-3.32	-13.00	-47.62
1648.40	H	-51.11	-50.25	3.56	-4.42	-13.00	-38.11
2472.60	H	-41.74	-40.47	4.18	-5.45	-13.00	-28.74
3296.80	H	-43.53	-43.42	6.31	-6.42	-13.00	-30.53
4121.00	H	---					
4945.20	H	---					
5769.40	H	---					
6593.60	H	---					
7417.80	H	-41.60	-41.47	9.67	-9.80	-13.00	-28.60
8242.00	H	-33.12	-33.20	10.40	-10.32	-13.00	-20.12

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	Test Date	:2014-11-18
Operation Band	:GSM 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
41.64	S	-65.92	-53.08	-12.00	-0.84	-13.00	-52.92
139.61	S	-75.15	-71.12	-2.68	-1.35	-13.00	-62.15
447.10	S	-70.17	-71.82	3.85	-2.21	-13.00	-57.17
655.65	S	-69.82	-71.07	3.93	-2.69	-13.00	-56.82
769.14	S	-48.75	-49.56	3.70	-2.89	-13.00	-35.75
939.86	S	-59.36	-59.42	3.38	-3.32	-13.00	-46.36
1648.40	H	-55.45	-54.59	3.56	-4.42	-13.00	-42.45
2472.60	H	-41.15	-39.88	4.18	-5.45	-13.00	-28.15
3296.80	H	-48.22	-48.11	6.31	-6.42	-13.00	-35.22
4121.00	H	---					
4945.20	H	---					
5769.40	H	---					
6593.60	H	---					
7417.80	H	-47.67	-47.55	9.67	-9.80	-13.00	-34.67
8242.00	H	-41.38	-41.46	10.40	-10.32	-13.00	-28.38

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 190	Test Date	:2014-11-18
Operation Band	:GSM 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
44.55	S	-67.02	-54.25	-11.87	-0.90	-13.00	-54.02
88.20	S	-72.17	-70.35	-0.65	-1.17	-13.00	-59.17
344.28	S	-71.86	-73.92	4.03	-1.97	-13.00	-58.86
648.86	S	-66.19	-67.44	3.93	-2.68	-13.00	-53.19
770.11	S	-45.89	-46.71	3.71	-2.89	-13.00	-32.89
939.86	S	-61.69	-61.74	3.38	-3.32	-13.00	-48.69
1673.20	H	-47.39	-46.44	3.49	-4.45	-13.00	-34.39
2509.80	H	-42.63	-41.41	4.28	-5.49	-13.00	-29.63
3346.40	H	-44.55	-44.53	6.44	-6.47	-13.00	-31.55
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	-40.95	-40.85	9.77	-9.88	-13.00	-27.95
8366.00	H	-36.18	-36.30	10.52	-10.40	-13.00	-23.18

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	:GSM 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
44.55	S	-65.88	-53.11	-11.87	-0.90	-13.00	-52.88
449.04	S	-69.70	-71.33	3.85	-2.22	-13.00	-56.70
645.95	S	-70.04	-71.28	3.92	-2.68	-13.00	-57.04
741.98	S	-66.97	-67.85	3.71	-2.83	-13.00	-53.97
771.08	S	-48.34	-49.15	3.71	-2.89	-13.00	-35.34
938.89	S	-60.85	-60.91	3.38	-3.32	-13.00	-47.85
1673.20	H	-54.23	-53.28	3.49	-4.45	-13.00	-41.23
2509.80	H	-41.14	-39.92	4.28	-5.49	-13.00	-28.14
3346.40	H	-49.81	-49.78	6.44	-6.47	-13.00	-36.81
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	-50.11	-50.01	9.77	-9.88	-13.00	-37.11
8366.00	H	-43.95	-44.07	10.52	-10.40	-13.00	-30.95

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

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

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ARFCN	:CH 251	Test Date	:2014-11-18
Operation Band	:GSM 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
42.61	S	-66.82	-54.01	-11.96	-0.86	-13.00	-53.82
88.20	S	-72.37	-70.56	-0.65	-1.17	-13.00	-59.37
237.58	S	-72.08	-73.83	3.41	-1.66	-13.00	-59.08
643.04	S	-66.77	-68.00	3.90	-2.67	-13.00	-53.77
770.11	S	-46.77	-47.59	3.71	-2.89	-13.00	-33.77
938.89	S	-62.06	-62.12	3.38	-3.32	-13.00	-49.06
1697.60	H	-48.36	-47.32	3.43	-4.48	-13.00	-35.36
2546.40	H	-42.10	-40.93	4.37	-5.54	-13.00	-29.10
3395.20	H	-49.73	-49.79	6.57	-6.52	-13.00	-36.73
4244.00	H	---					
5092.80	H	---					
5941.60	H	---					
6790.40	H	-49.20	-48.89	9.00	-9.31	-13.00	-36.20
7639.20	H	-43.77	-43.70	9.86	-9.94	-13.00	-30.77
8488.00	H	-41.10	-41.26	10.64	-10.48	-13.00	-28.10

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

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

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Fundamental Frequency	:848.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
41.64	S	-65.93	-53.10	-12.00	-0.84	-13.00	-52.93
207.51	S	-69.92	-72.19	3.82	-1.54	-13.00	-56.92
449.04	S	-70.25	-71.88	3.85	-2.22	-13.00	-57.25
640.13	S	-70.66	-71.87	3.88	-2.67	-13.00	-57.66
773.99	S	-47.68	-48.49	3.71	-2.90	-13.00	-34.68
939.86	S	-61.32	-61.38	3.38	-3.32	-13.00	-48.32
1697.60	H	-53.88	-52.84	3.43	-4.48	-13.00	-40.88
2546.40	H	-43.56	-42.39	4.37	-5.54	-13.00	-30.56
3395.20	H	-54.25	-54.31	6.57	-6.52	-13.00	-41.25
4244.00	H	---					
5092.80	H	---					
5941.60	H	---					
6790.40	H	-51.45	-51.14	9.00	-9.31	-13.00	-38.45
7639.20	H	-48.43	-48.35	9.86	-9.94	-13.00	-35.43
8488.00	H	-47.78	-47.94	10.64	-10.48	-13.00	-34.78

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

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

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“---” : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: GSM 1900 Mode

ARFCN	:CH 512	Test Date	:2014-11-18
Operation Band	:GSM 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
89.17	S	-51.78	-52.32	1.72	-1.18	-13.00	-38.78
225.94	S	-58.58	-62.81	5.85	-1.62	-13.00	-45.58
382.11	S	-66.43	-70.58	6.18	-2.04	-13.00	-53.43
556.71	S	-69.07	-72.57	6.00	-2.51	-13.00	-56.07
750.71	S	-63.60	-66.58	5.83	-2.85	-13.00	-50.60
932.10	S	-63.78	-66.04	5.57	-3.31	-13.00	-50.78
3700.40	H	-43.41	-45.73	9.13	-6.80	-13.00	-30.41
5550.60	H	-41.66	-43.76	10.50	-8.40	-13.00	-28.66
7400.80	H	-43.53	-45.55	11.80	-9.78	-13.00	-30.53
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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ARFCN	:CH 512	Test Date	:2014-11-18
Operation Band	:GSM 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
88.20	S	-66.34	-66.67	1.50	-1.17	-13.00	-53.34
246.31	S	-68.99	-72.76	5.47	-1.69	-13.00	-55.99
428.67	S	-70.35	-74.26	6.07	-2.16	-13.00	-57.35
554.77	S	-69.72	-73.23	6.01	-2.50	-13.00	-56.72
743.92	S	-64.26	-67.28	5.85	-2.84	-13.00	-51.26
815.70	S	-63.96	-66.86	5.90	-3.00	-13.00	-50.96
3700.40	H	-48.03	-50.35	9.13	-6.80	-13.00	-35.03
5550.60	H	-43.99	-46.09	10.50	-8.40	-13.00	-30.99
7400.80	H	-42.99	-45.00	11.80	-9.78	-13.00	-29.99
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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ARFCN	:CH 661	Test Date	:2014-11-18
Operation Band	:GSM 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
89.17	S	-52.20	-52.74	1.72	-1.18	-13.00	-39.20
224.97	S	-58.71	-62.92	5.82	-1.61	-13.00	-45.71
372.41	S	-69.00	-73.17	6.19	-2.02	-13.00	-56.00
529.55	S	-69.47	-73.10	6.07	-2.44	-13.00	-56.47
699.30	S	-64.75	-68.05	6.03	-2.74	-13.00	-51.75
919.49	S	-62.96	-65.29	5.62	-3.29	-13.00	-49.96
3760.00	H	-42.69	-45.00	9.16	-6.85	-13.00	-29.69
5640.00	H	-41.03	-43.06	10.50	-8.47	-13.00	-28.03
7520.00	H	-42.68	-44.72	11.92	-9.87	-13.00	-29.68
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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ARFCN	:CH 661	Test Date	:2014-11-18
Operation Band	:GSM 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
88.20	S	-66.38	-66.71	1.50	-1.17	-13.00	-53.38
253.10	S	-69.14	-72.86	5.44	-1.72	-13.00	-56.14
434.49	S	-70.03	-73.90	6.05	-2.17	-13.00	-57.03
554.77	S	-69.56	-73.07	6.01	-2.50	-13.00	-56.56
686.69	S	-64.39	-67.71	6.05	-2.73	-13.00	-51.39
927.25	S	-63.39	-65.68	5.59	-3.30	-13.00	-50.39
3760.00	H	-45.57	-47.88	9.16	-6.85	-13.00	-32.57
5640.00	H	-45.71	-47.74	10.50	-8.47	-13.00	-32.71
7520.00	H	-44.97	-47.02	11.92	-9.87	-13.00	-31.97
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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ARFCN	:CH 810	Test Date	:2014-11-18
Operation Band	:GSM 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
87.23	S	-50.55	-50.68	1.27	-1.15	-13.00	-37.55
156.10	S	-56.58	-55.95	0.77	-1.40	-13.00	-43.58
399.57	S	-64.23	-68.33	6.17	-2.07	-13.00	-51.23
559.62	S	-69.14	-72.62	5.99	-2.52	-13.00	-56.14
755.56	S	-64.24	-67.22	5.84	-2.86	-13.00	-51.24
932.10	S	-63.86	-66.11	5.57	-3.31	-13.00	-50.86
3819.60	H	-40.61	-42.91	9.20	-6.90	-13.00	-27.61
5729.40	H	-42.06	-44.02	10.50	-8.54	-13.00	-29.06
7639.20	H	-42.12	-44.19	12.01	-9.94	-13.00	-29.12
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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ARFCN	:CH 810	Test Date	:2014-11-18
Operation Band	:GSM 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
91.11	S	-66.96	-67.58	1.82	-1.20	-13.00	-53.96
250.19	S	-69.09	-72.86	5.49	-1.71	-13.00	-56.09
375.32	S	-70.35	-74.51	6.19	-2.03	-13.00	-57.35
547.01	S	-69.46	-73.02	6.04	-2.48	-13.00	-56.46
706.09	S	-63.69	-66.94	6.01	-2.75	-13.00	-50.69
946.65	S	-63.37	-65.53	5.50	-3.33	-13.00	-50.37
3819.60	H	-47.12	-49.41	9.20	-6.90	-13.00	-34.12
5729.40	H	-42.93	-44.88	10.50	-8.54	-13.00	-29.93
7639.20	H	-45.23	-47.30	12.01	-9.94	-13.00	-32.23
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: WCDMA II Mode

ARFCN	:CH 9262	Test Date	:2014-11-18
Operation Band	:WCDMA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
88.20	S	-52.32	-52.65	1.50	-1.17	-13.00	-39.32
225.94	S	-59.26	-63.49	5.85	-1.62	-13.00	-46.26
421.88	S	-65.83	-69.78	6.09	-2.14	-13.00	-52.83
525.67	S	-69.58	-73.22	6.07	-2.42	-13.00	-56.58
713.85	S	-63.81	-67.01	5.97	-2.77	-13.00	-50.81
941.80	S	-63.43	-65.63	5.52	-3.32	-13.00	-50.43
3704.80	H	-50.91	-53.24	9.13	-6.80	-13.00	-37.91
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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ARFCN	:CH 9262	Test Date	:2014-11-18
Operation Band	:WCDMA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
111.48	S	-64.71	-63.31	-0.15	-1.25	-13.00	-51.71
243.40	S	-69.73	-73.50	5.45	-1.68	-13.00	-56.73
427.70	S	-70.87	-74.79	6.07	-2.15	-13.00	-57.87
520.82	S	-69.27	-72.94	6.08	-2.41	-13.00	-56.27
727.43	S	-64.32	-67.44	5.92	-2.80	-13.00	-51.32
947.62	S	-63.50	-65.67	5.50	-3.33	-13.00	-50.50
3704.80	H	-56.95	-59.28	9.13	-6.80	-13.00	-43.95
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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ARFCN	:CH 9400	Test Date	:2014-11-18
Operation Band	:WCDMA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
88.20	S	-52.46	-52.79	1.50	-1.17	-13.00	-39.46
165.80	S	-58.83	-58.87	1.46	-1.43	-13.00	-45.83
415.09	S	-68.27	-72.27	6.12	-2.12	-13.00	-55.27
518.88	S	-68.80	-72.48	6.08	-2.40	-13.00	-55.80
697.36	S	-64.42	-67.71	6.03	-2.74	-13.00	-51.42
916.58	S	-63.79	-66.14	5.64	-3.29	-13.00	-50.79
3760.00	H	-52.59	-54.90	9.16	-6.85	-13.00	-39.59
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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ARFCN	:CH 9400	Test Date	:2014-11-18
Operation Band	:WCDMA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
110.51	S	-66.14	-64.75	-0.14	-1.24	-13.00	-53.14
205.57	S	-64.20	-68.63	5.96	-1.53	-13.00	-51.20
294.81	S	-69.91	-73.73	5.67	-1.85	-13.00	-56.91
523.73	S	-69.21	-72.87	6.07	-2.42	-13.00	-56.21
685.72	S	-63.79	-67.11	6.05	-2.72	-13.00	-50.79
909.79	S	-63.96	-66.36	5.67	-3.28	-13.00	-50.96
3760.00	H	-56.46	-58.77	9.16	-6.85	-13.00	-43.46
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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ARFCN	:CH 9538	Test Date	:2014-11-18
Operation Band	:WCDMA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
87.23	S	-49.77	-49.89	1.27	-1.15	-13.00	-36.77
227.88	S	-59.05	-63.32	5.90	-1.63	-13.00	-46.05
392.78	S	-69.42	-73.54	6.18	-2.06	-13.00	-56.42
547.98	S	-69.48	-73.03	6.04	-2.49	-13.00	-56.48
757.50	S	-64.05	-67.02	5.84	-2.86	-13.00	-51.05
952.47	S	-63.79	-65.79	5.34	-3.34	-13.00	-50.79
3815.20	H	-51.36	-53.65	9.19	-6.90	-13.00	-38.36
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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ARFCN	:CH 9538	Test Date	:2014-11-18
Operation Band	:WCDMA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
89.17	S	-66.57	-67.11	1.72	-1.18	-13.00	-53.57
222.06	S	-68.89	-73.02	5.74	-1.60	-13.00	-55.89
449.04	S	-70.24	-74.02	6.00	-2.22	-13.00	-57.24
516.94	S	-69.67	-73.36	6.08	-2.40	-13.00	-56.67
705.12	S	-63.71	-66.97	6.01	-2.75	-13.00	-50.71
900.09	S	-63.96	-66.42	5.71	-3.26	-13.00	-50.96
3815.20	H	-54.20	-56.49	9.19	-6.90	-13.00	-41.20
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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Radiated Spurious Emission Measurement Result: WCDMA V Mode

ARFCN	:CH 4132	Test Date	:2014-11-18
Operation Band	:WCDMA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
34.85	S	-56.40	-42.43	-13.17	-0.80	-13.00	-43.40
87.23	S	-66.72	-64.70	-0.88	-1.15	-13.00	-53.72
347.19	S	-71.35	-73.42	4.04	-1.97	-13.00	-58.35
646.92	S	-66.98	-68.23	3.92	-2.68	-13.00	-53.98
773.02	S	-46.99	-47.81	3.71	-2.90	-13.00	-33.99
938.89	S	-59.28	-59.34	3.38	-3.32	-13.00	-46.28
1652.80	H	---					
2479.20	H	-54.95	-53.69	4.19	-5.46	-13.00	-41.95
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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ARFCN	:CH 4132	Test Date	:2014-11-18
Operation Band	:WCDMA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
38.73	S	-57.19	-44.05	-12.33	-0.80	-13.00	-44.19
87.23	S	-69.72	-67.69	-0.88	-1.15	-13.00	-56.72
450.98	S	-72.19	-73.81	3.85	-2.22	-13.00	-59.19
620.73	S	-71.51	-72.64	3.77	-2.65	-13.00	-58.51
773.02	S	-47.43	-48.25	3.71	-2.90	-13.00	-34.43
938.89	S	-58.62	-58.68	3.38	-3.32	-13.00	-45.62
1652.80	H	---					
2479.20	H	-56.60	-55.34	4.19	-5.46	-13.00	-43.60
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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ARFCN	:CH 4183	Test Date	:2014-11-18
Operation Band	:WCDMA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
34.85	S	-56.34	-42.37	-13.17	-0.80	-13.00	-43.34
87.23	S	-66.97	-64.95	-0.88	-1.15	-13.00	-53.97
321.97	S	-71.28	-73.24	3.88	-1.92	-13.00	-58.28
652.74	S	-66.36	-67.61	3.94	-2.69	-13.00	-53.36
769.14	S	-46.53	-47.34	3.70	-2.89	-13.00	-33.53
939.86	S	-58.82	-58.88	3.38	-3.32	-13.00	-45.82
1673.20	H	---					
2509.80	H	-54.40	-53.18	4.28	-5.49	-13.00	-41.40
3346.40	H	-53.51	-53.48	6.44	-6.47	-13.00	-40.51
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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ARFCN	:CH 4183	Test Date	:2014-11-18
Operation Band	:WCDMA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
38.73	S	-57.57	-44.43	-12.33	-0.80	-13.00	-44.57
87.23	S	-69.41	-67.39	-0.88	-1.15	-13.00	-56.41
422.85	S	-71.76	-73.56	3.94	-2.14	-13.00	-58.76
644.01	S	-70.03	-71.26	3.90	-2.68	-13.00	-57.03
769.14	S	-48.79	-49.61	3.70	-2.89	-13.00	-35.79
939.86	S	-61.73	-61.79	3.38	-3.32	-13.00	-48.73
1673.20	H	---					
2509.80	H	-52.34	-51.12	4.28	-5.49	-13.00	-39.34
3346.40	H	-58.26	-58.24	6.44	-6.47	-13.00	-45.26
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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ARFCN	:CH 4233	Test Date	:2014-11-18
Operation Band	:WCDMA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
35.82	S	-56.56	-42.80	-12.95	-0.80	-13.00	-43.56
87.23	S	-66.82	-64.80	-0.88	-1.15	-13.00	-53.82
287.05	S	-72.24	-73.79	3.38	-1.83	-13.00	-59.24
645.95	S	-66.87	-68.11	3.92	-2.68	-13.00	-53.87
773.99	S	-46.52	-47.34	3.71	-2.90	-13.00	-33.52
936.95	S	-61.99	-62.07	3.39	-3.32	-13.00	-48.99
1693.20	H	-58.19	-57.16	3.44	-4.48	-13.00	-45.19
2539.80	H	-58.90	-57.72	4.35	-5.53	-13.00	-45.90
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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ARFCN	:CH 4233	Test Date	:2014-11-18
Operation Band	:WCDMA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
38.73	S	-57.56	-44.42	-12.33	-0.80	-13.00	-44.56
87.23	S	-68.30	-66.27	-0.88	-1.15	-13.00	-55.30
429.64	S	-72.28	-74.03	3.91	-2.16	-13.00	-59.28
644.98	S	-70.18	-71.41	3.91	-2.68	-13.00	-57.18
770.11	S	-48.40	-49.22	3.71	-2.89	-13.00	-35.40
937.92	S	-62.59	-62.66	3.39	-3.32	-13.00	-49.59
1693.20	H	-63.73	-62.70	3.44	-4.48	-13.00	-50.73
2539.80	H	-57.04	-55.86	4.35	-5.53	-13.00	-44.04
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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Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 2(The Worst Case)

ARFCN	:CH 18607 16QAM BW 1.4 RB 1 5	Test Date	:2014-11-18
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1850.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	Margin dB
32.91	S	-51.88	-39.60	-11.48	-0.80	-13.00	-38.88
90.14	S	-63.50	-64.20	1.90	-1.20	-13.00	-50.50
244.37	S	-70.37	-74.14	5.46	-1.69	-13.00	-57.37
634.31	S	-64.89	-68.22	6.00	-2.66	-13.00	-51.89
767.20	S	-63.59	-66.55	5.85	-2.88	-13.00	-50.59
922.40	S	-63.37	-65.69	5.61	-3.30	-13.00	-50.37
3701.40	H	-44.37	-46.69	9.13	-6.80	-13.00	-31.37
5552.10	H	-37.92	-40.02	10.50	-8.40	-13.00	-24.92
7402.80	H	-29.47	-31.49	11.81	-9.79	-13.00	-16.47
9253.50	H	-46.59	-48.76	13.20	-11.02	-13.00	-33.59
11104.20	H	---					
12954.90	H	---					
14805.60	H	---					
16656.30	H	---					
18507.00	H	---					

EIRP(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 18607 16QAM BW 1.4 RB 1 5	Test Date	:2014-11-18
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1850.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
36.79	S	-54.65	-43.26	-10.59	-0.80	-13.00	-41.65
90.14	S	-68.55	-69.25	1.90	-1.20	-13.00	-55.55
440.31	S	-69.76	-73.60	6.03	-2.19	-13.00	-56.76
645.95	S	-67.83	-71.22	6.07	-2.68	-13.00	-54.83
770.11	S	-65.68	-68.65	5.86	-2.89	-13.00	-52.68
947.62	S	-64.12	-66.28	5.50	-3.33	-13.00	-51.12
3701.40	H	-48.53	-50.86	9.13	-6.80	-13.00	-35.53
5552.10	H	-49.18	-51.28	10.50	-8.40	-13.00	-36.18
7402.80	H	-41.60	-43.62	11.81	-9.79	-13.00	-28.60
9253.50	H	-48.43	-50.60	13.20	-11.02	-13.00	-35.43
11104.20	H	---					
12954.90	H	---					
14805.60	H	---					
16656.30	H	---					
18507.00	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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ARFCN	:CH 18900 16QAM BW 1.4 RB 1 5	Test Date	:2014-11-18
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
32.91	S	-53.20	-40.92	-11.48	-0.80	-13.00	-40.20
90.14	S	-63.61	-64.31	1.90	-1.20	-13.00	-50.61
470.38	S	-68.66	-72.43	6.04	-2.27	-13.00	-55.66
640.13	S	-64.58	-67.94	6.03	-2.67	-13.00	-51.58
697.36	S	-62.69	-65.98	6.03	-2.74	-13.00	-49.69
922.40	S	-63.36	-65.67	5.61	-3.30	-13.00	-50.36
3760.00	H	-42.21	-44.52	9.16	-6.85	-13.00	-29.21
5640.00	H	-38.91	-40.94	10.50	-8.47	-13.00	-25.91
7520.00	H	-36.33	-38.37	11.92	-9.87	-13.00	-23.33
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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ARFCN	:CH 18900 16QAM BW 1.4 RB 1 5	Test Date	:2014-11-18
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
36.79	S	-55.86	-44.47	-10.59	-0.80	-13.00	-42.86
90.14	S	-68.34	-69.05	1.90	-1.20	-13.00	-55.34
447.10	S	-70.00	-73.79	6.00	-2.21	-13.00	-57.00
643.04	S	-68.01	-71.38	6.05	-2.67	-13.00	-55.01
769.14	S	-65.70	-68.67	5.85	-2.89	-13.00	-52.70
943.74	S	-64.30	-66.49	5.51	-3.33	-13.00	-51.30
3760.00	H	-47.90	-50.21	9.16	-6.85	-13.00	-34.90
5640.00	H	-48.46	-50.49	10.50	-8.47	-13.00	-35.46
7520.00	H	-45.52	-47.56	11.92	-9.87	-13.00	-32.52
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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ARFCN	:CH 19193 16QAM BW	Test Date	:2014-11-18
	1.4 RB 1 5		
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1909.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
32.91	S	-52.06	-39.77	-11.48	-0.80	-13.00	-39.06
89.17	S	-63.65	-64.19	1.72	-1.18	-13.00	-50.65
456.80	S	-70.41	-74.18	6.01	-2.24	-13.00	-57.41
644.98	S	-63.82	-67.20	6.06	-2.68	-13.00	-50.82
767.20	S	-63.69	-66.66	5.85	-2.88	-13.00	-50.69
945.68	S	-63.44	-65.61	5.50	-3.33	-13.00	-50.44
3818.60	H	-37.60	-39.89	9.20	-6.90	-13.00	-24.60
5727.90	H	-39.00	-40.96	10.50	-8.54	-13.00	-26.00
7637.20	H	-41.80	-43.87	12.01	-9.94	-13.00	-28.80
9546.50	H	---					
11455.80	H	---					
13365.10	H	---					
15274.40	H	---					
17183.70	H	---					
19093.00	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.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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ARFCN	:CH 19193 16QAM BW	Test Date	:2014-11-18
	1.4 RB 1 5		
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1909.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
36.79	S	-55.88	-44.48	-10.59	-0.80	-13.00	-42.88
90.14	S	-68.34	-69.04	1.90	-1.20	-13.00	-55.34
436.43	S	-69.81	-73.68	6.04	-2.18	-13.00	-56.81
642.07	S	-67.45	-70.82	6.04	-2.67	-13.00	-54.45
774.96	S	-65.71	-68.67	5.86	-2.90	-13.00	-52.71
940.83	S	-63.17	-65.37	5.53	-3.32	-13.00	-50.17
3818.60	H	-43.58	-45.87	9.20	-6.90	-13.00	-30.58
5727.90	H	-47.08	-49.04	10.50	-8.54	-13.00	-34.08
7637.20	H	-48.19	-50.26	12.01	-9.94	-13.00	-35.19
9546.50	H	---					
11455.80	H	---					
13365.10	H	---					
15274.40	H	---					
17183.70	H	---					
19093.00	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: 1.4MHz BW LTE-Band 5(The Worst Case)

ARFCN	:CH 20407 16QAM BW	Test Date	:2014-11-18
	1.4 RB 1 0		
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
31.94	S	-56.36	-41.69	-13.87	-0.80	-13.00	-43.36
88.20	S	-66.33	-64.51	-0.65	-1.17	-13.00	-53.33
293.84	S	-72.70	-74.33	3.48	-1.85	-13.00	-59.70
653.71	S	-67.22	-68.46	3.93	-2.69	-13.00	-54.22
757.50	S	-66.82	-67.65	3.69	-2.86	-13.00	-53.82
902.03	S	-66.27	-66.57	3.56	-3.26	-13.00	-53.27
1649.40	H	-53.66	-52.80	3.55	-4.42	-13.00	-40.66
2474.10	H	-53.71	-52.44	4.18	-5.45	-13.00	-40.71
3298.80	H	---					
4123.50	H	---					
4948.20	H	---					
5772.90	H	---					
6597.60	H	---					
7422.30	H	---					
8247.00	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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ARFCN	:CH 20407 16QAM BW	Test Date	:2014-11-18
	1.4 RB 1 0		
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
35.82	S	-57.77	-44.01	-12.95	-0.80	-13.00	-44.77
99.84	S	-71.36	-69.16	-1.01	-1.20	-13.00	-58.36
203.63	S	-74.03	-76.31	3.81	-1.53	-13.00	-61.03
442.25	S	-72.67	-74.35	3.87	-2.20	-13.00	-59.67
643.04	S	-69.99	-71.22	3.90	-2.67	-13.00	-56.99
889.42	S	-66.63	-67.01	3.61	-3.23	-13.00	-53.63
1649.40	H	-59.81	-58.95	3.55	-4.42	-13.00	-46.81
2474.10	H	-54.83	-53.56	4.18	-5.45	-13.00	-41.83
3298.80	H	---					
4123.50	H	---					
4948.20	H	---					
5772.90	H	---					
6597.60	H	---					
7422.30	H	---					
8247.00	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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ARFCN	:CH 20525 16QAM BW 1.4 RB 1 0	Test Date	:2014-11-18
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
32.91	S	-55.02	-40.59	-13.63	-0.80	-13.00	-42.02
88.20	S	-65.59	-63.78	-0.65	-1.17	-13.00	-52.59
285.11	S	-71.55	-73.15	3.42	-1.82	-13.00	-58.55
525.67	S	-71.05	-72.55	3.92	-2.42	-13.00	-58.05
680.87	S	-66.58	-67.77	3.90	-2.72	-13.00	-53.58
950.53	S	-66.12	-66.09	3.30	-3.34	-13.00	-53.12
1673.00	H	-62.10	-61.14	3.49	-4.45	-13.00	-49.10
2509.50	H	-54.59	-53.37	4.27	-5.49	-13.00	-41.59
3346.00	H	---					
4182.50	H	---					
5019.00	H	---					
5855.50	H	---					
6692.00	H	---					
7528.50	H	---					
8365.00	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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ARFCN	:CH 20525 16QAM BW	Test Date	:2014-11-18
	1.4 RB 1 0		
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
35.82	S	-58.74	-44.98	-12.95	-0.80	-13.00	-45.74
91.11	S	-71.75	-70.23	-0.33	-1.20	-13.00	-58.75
371.44	S	-76.21	-78.23	4.04	-2.02	-13.00	-63.21
520.82	S	-71.94	-73.46	3.93	-2.41	-13.00	-58.94
660.50	S	-69.46	-70.69	3.93	-2.69	-13.00	-56.46
944.71	S	-66.61	-66.64	3.36	-3.33	-13.00	-53.61
1673.00	H	-61.06	-60.10	3.49	-4.45	-13.00	-48.06
2509.50	H	-52.88	-51.67	4.27	-5.49	-13.00	-39.88
3346.00	H	---					
4182.50	H	---					
5019.00	H	---					
5855.50	H	---					
6692.00	H	---					
7528.50	H	---					
8365.00	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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ARFCN	:CH 50643 16QAM BW	Test Date	:2014-11-18
	1.4 RB 1 0		
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
31.94	S	-54.85	-40.17	-13.87	-0.80	-13.00	-41.85
88.20	S	-65.66	-63.84	-0.65	-1.17	-13.00	-52.66
282.20	S	-72.30	-73.96	3.48	-1.82	-13.00	-59.30
468.44	S	-72.17	-73.79	3.89	-2.27	-13.00	-59.17
646.92	S	-66.28	-67.52	3.92	-2.68	-13.00	-53.28
940.83	S	-65.90	-65.95	3.38	-3.32	-13.00	-52.90
1696.60	H	-58.97	-57.93	3.44	-4.48	-13.00	-45.97
2544.90	H	---					
3393.20	H	---					
4241.50	H	---					
5089.80	H	---					
5938.10	H	---					
6786.40	H	---					
7634.70	H	---					
8483.00	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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ARFCN	:CH 50643 16QAM BW	Test Date	:2014-11-18
	1.4 RB 1 0		
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
35.82	S	-57.66	-43.91	-12.95	-0.80	-13.00	-44.66
113.42	S	-71.99	-68.42	-2.31	-1.26	-13.00	-58.99
424.79	S	-72.95	-74.74	3.93	-2.15	-13.00	-59.95
681.84	S	-70.35	-71.53	3.90	-2.72	-13.00	-57.35
785.63	S	-68.50	-69.31	3.72	-2.92	-13.00	-55.50
907.85	S	-66.66	-66.91	3.53	-3.27	-13.00	-53.66
1696.60	H	-63.21	-62.16	3.44	-4.48	-13.00	-50.21
2544.90	H	---					
3393.20	H	---					
4241.50	H	---					
5089.80	H	---					
5938.10	H	---					
6786.40	H	---					
7634.70	H	---					
8483.00	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: 5MHz BW LTE-Band 7(The Worst Case)

ARFCN	:CH 20775 16QAM BW 5	Test Date	:2014-11-28
	RB 1 0		
Operation Band	:LTE B7	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:2502.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
31.94	S	-53.47	-40.95	-11.72	-0.80	-25.00	-28.47
88.20	S	-64.30	-64.64	1.50	-1.17	-25.00	-39.30
258.92	S	-70.36	-73.97	5.35	-1.74	-25.00	-45.36
524.70	S	-68.42	-72.07	6.07	-2.42	-25.00	-43.42
693.48	S	-64.40	-67.70	6.04	-2.73	-25.00	-39.40
944.71	S	-63.63	-65.81	5.51	-3.33	-25.00	-38.63
5005.00	H	-48.07	-50.46	10.30	-7.91	-25.00	-23.07
7507.50	H	-46.71	-48.76	11.91	-9.86	-25.00	-21.71
10010.00	H	-31.15	-32.53	12.90	-11.53	-25.00	-6.15
12512.50	H	---					
15015.00	H	---					
17517.50	H	---					
20020.00	H	---					
22522.50	H	---					
25025.00	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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ARFCN	:CH 20775 16QAM BW 5 RB 1 0	Test Date	: 2014-11-28
Operation Band	:LTE B7	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:2502.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
34.85	S	-57.08	-45.26	-11.02	-0.80	-25.00	-32.08
115.36	S	-69.77	-68.34	-0.17	-1.26	-25.00	-44.77
380.17	S	-72.96	-77.11	6.19	-2.03	-25.00	-47.96
595.51	S	-68.88	-72.09	5.81	-2.61	-25.00	-43.88
757.50	S	-66.71	-69.69	5.84	-2.86	-25.00	-41.71
947.62	S	-64.19	-66.35	5.50	-3.33	-25.00	-39.19
5005.00	H	-50.76	-53.15	10.30	-7.91	-25.00	-25.76
7507.50	H	-50.50	-52.54	11.91	-9.86	-25.00	-25.50
10010.00	H	-37.52	-38.89	12.90	-11.53	-25.00	-12.52
12512.50	H	---					
15015.00	H	---					
17517.50	H	---					
20020.00	H	---					
22522.50	H	---					
25025.00	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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ARFCN	:CH 21100 16QAM BW 5 RB 1 0	Test Date	: 2014-11-28
Operation Band	:LTE B7	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:2535 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
31.94	S	-53.05	-40.52	-11.72	-0.80	-25.00	-28.05
88.20	S	-63.27	-63.61	1.50	-1.17	-25.00	-38.27
256.01	S	-70.73	-74.40	5.39	-1.73	-25.00	-45.73
601.33	S	-66.62	-69.80	5.80	-2.62	-25.00	-41.62
745.86	S	-64.54	-67.55	5.85	-2.84	-25.00	-39.54
921.43	S	-64.14	-66.46	5.61	-3.29	-25.00	-39.14
5070.00	H	-51.22	-53.58	10.33	-7.98	-25.00	-26.22
7605.00	H	-46.88	-48.94	11.99	-9.92	-25.00	-21.88
10140.00	H	-34.65	-35.97	12.93	-11.61	-25.00	-9.65
12675.00	H	---					
15210.00	H	---					
17745.00	H	---					
20280.00	H	---					
22815.00	H	---					
25350.00	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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ARFCN	:CH 21100 16QAM BW 5	Test Date	: 2014-11-28
	RB 1 0		
Operation Band	:LTE B7	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:2535 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
35.82	S	-56.59	-44.98	-10.80	-0.80	-25.00	-31.59
88.20	S	-70.08	-70.41	1.50	-1.17	-25.00	-45.08
320.03	S	-75.25	-79.35	6.01	-1.91	-25.00	-50.25
477.17	S	-69.41	-73.18	6.06	-2.29	-25.00	-44.41
693.48	S	-67.11	-70.42	6.04	-2.73	-25.00	-42.11
949.56	S	-64.12	-66.27	5.49	-3.34	-25.00	-39.12
5070.00	H	-53.55	-55.90	10.33	-7.98	-25.00	-28.55
7605.00	H	-49.51	-51.58	11.99	-9.92	-25.00	-24.51
10140.00	H	-38.86	-40.18	12.93	-11.61	-25.00	-13.86
12675.00	H	---					
15210.00	H	---					
17745.00	H	---					
20280.00	H	---					
22815.00	H	---					
25350.00	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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ARFCN	:CH 21425 16QAM BW 5	Test Date	: 2014-11-28
	RB 1 0		
Operation Band	:LTE B7	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:2567.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
31.94	S	-53.08	-40.56	-11.72	-0.80	-25.00	-28.08
88.20	S	-64.29	-64.63	1.50	-1.17	-25.00	-39.29
302.57	S	-70.17	-74.19	5.89	-1.88	-25.00	-45.17
584.84	S	-67.27	-70.55	5.86	-2.58	-25.00	-42.27
643.04	S	-64.81	-68.18	6.05	-2.67	-25.00	-39.81
908.82	S	-63.04	-65.44	5.67	-3.27	-25.00	-38.04
5135.00	H	-48.56	-50.88	10.36	-8.04	-25.00	-23.56
7702.50	H	-46.90	-48.98	12.07	-9.98	-25.00	-21.90
10270.00	H	-34.58	-35.85	12.95	-11.69	-25.00	-9.58
12837.50	H	---					
15405.00	H	---					
17972.50	H	---					
20540.00	H	---					
23107.50	H	---					
25675.00	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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ARFCN	:CH 21425 16QAM BW 5	Test Date	: 2014-11-28
	RB 1 0		
Operation Band	:LTE B7	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:2567.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
35.82	S	-57.01	-45.40	-10.80	-0.80	-25.00	-32.01
88.20	S	-69.45	-69.78	1.50	-1.17	-25.00	-44.45
392.78	S	-72.14	-76.26	6.18	-2.06	-25.00	-47.14
583.87	S	-69.54	-72.83	5.87	-2.58	-25.00	-44.54
762.35	S	-66.92	-69.90	5.85	-2.87	-25.00	-41.92
949.56	S	-63.99	-66.14	5.49	-3.34	-25.00	-38.99
5135.00	H	-53.82	-56.14	10.36	-8.04	-25.00	-28.82
7702.50	H	-50.28	-52.36	12.07	-9.98	-25.00	-25.28
10270.00	H	-38.66	-39.93	12.95	-11.69	-25.00	-13.66
12837.50	H	---					
15405.00	H	---					
17972.50	H	---					
20540.00	H	---					
23107.50	H	---					
25675.00	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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11. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

11.1. Standard Applicable:

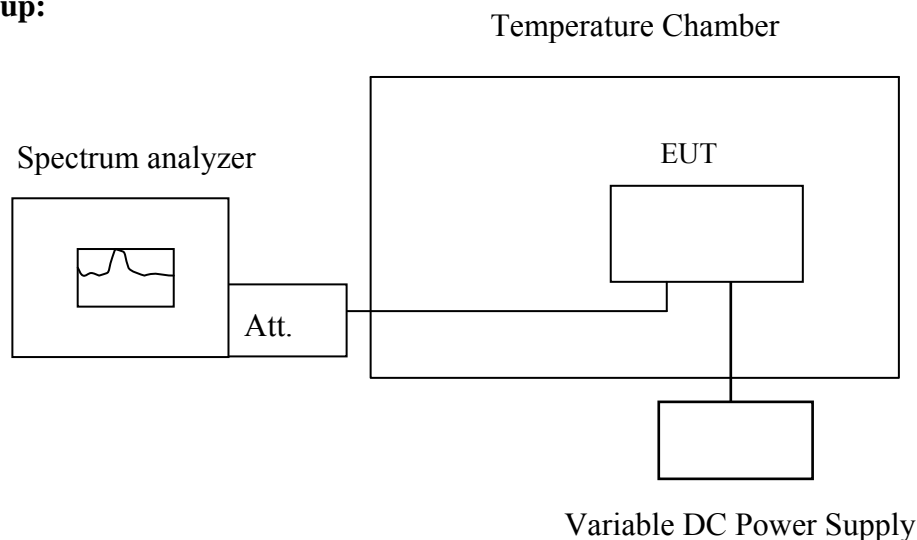
According to FCC §2.1055(a) (1)

Frequency Tolerance: ± 2.5 ppm for 850MHz band

± 2.5 ppm for 1900MHz band

± 2.5 ppm for 2500MHz 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 = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	50	836.599967	-17	2091
3.8	40	836.599971	-13	2091
3.8	30	836.599975	-9	2091
3.8	20	836.599984	0	2091
3.8	10	836.599979	-5	2091
3.8	0	836.599981	-3	2091
3.8	-10	836.599989	5	2091
3.8	-20	836.599987	3	2091
3.8	-30	836.599982	-2	2091

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	50	1879.999969	-16	4700
3.8	40	1879.999971	-14	4700
3.8	30	1879.999975	-10	4700
3.8	20	1879.999985	0	4700
3.8	10	1879.999972	-13	4700
3.8	0	1879.999985	0	4700
3.8	-10	1879.999989	4	4700
3.8	-20	1879.999976	-9	4700
3.8	-30	1879.999981	-4	4700

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Reference Frequency: WCDMA II Mid Channel 1880				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	50	1879.999985	-25	4700
3.8	40	1879.999989	-21	4700
3.8	30	1879.999984	-26	4700
3.8	20	1880.000010	0	4700
3.8	10	1879.999982	-28	4700
3.8	0	1879.999986	-24	4700
3.8	-10	1879.999990	-20	4700
3.8	-20	1879.999997	-13	4700
3.8	-30	1880.000009	-1	4700

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	50	836.599964	-34	2091
3.8	40	836.599988	-10	2091
3.8	30	836.599991	-7	2091
3.8	20	836.599998	0	2091
3.8	10	836.599998	0	2091
3.8	0	836.600008	10	2091
3.8	-10	836.600019	21	2091
3.8	-20	836.600021	23	2091
3.8	-30	836.600025	27	2091

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Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	1.4M QPSK CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.8	-30	1880.000004	-1.00	4700	
3.8	-20	1880.000006	1.00	4700	
3.8	-10	1879.999996	-9.00	4700	
3.8	0	1880.000003	-2.00	4700	
3.8	10	1879.999998	-7.00	4700	
3.8	20	1880.000005	0.00	4700	
3.8	30	1880.000007	2.00	4700	
3.8	40	1879.999997	-8.00	4700	
3.8	50	1880.000002	-3.00	4700	

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	1.4M 16QAM CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.8	-30	1880.000003	0.00	4700	
3.8	-20	1880.000004	1.00	4700	
3.8	-10	1879.999996	-7.00	4700	
3.8	0	1880.000004	1.00	4700	
3.8	10	1880.000005	2.00	4700	
3.8	20	1880.000003	0.00	4700	
3.8	30	1879.999996	-7.00	4700	
3.8	40	1880.000005	2.00	4700	
3.8	50	1879.999998	-5.00	4700	

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Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 3M QPSK CH 18900				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	1880.000006	2.00	4700
3.8	-20	1880.000002	-2.00	4700
3.8	-10	1880.000004	0.00	4700
3.8	0	1880.000004	0.00	4700
3.8	10	1880.000005	1.00	4700
3.8	20	1880.000004	0.00	4700
3.8	30	1880.000005	1.00	4700
3.8	40	1880.000006	2.00	4700
3.8	50	1880.000005	1.00	4700

Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 3M 16QAM CH 18900				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	1880.000007	1.00	4700
3.8	-20	1879.999994	-12.00	4700
3.8	-10	1880.000004	-2.00	4700
3.8	0	1880.000003	-3.00	4700
3.8	10	1879.999997	-9.00	4700
3.8	20	1880.000006	0.00	4700
3.8	30	1880.000005	-1.00	4700
3.8	40	1879.999996	-10.00	4700
3.8	50	1880.000003	-3.00	4700

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Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	5M QPSK CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)		Limit (Hz)
Vdc	Temperature ()	(MHz)			
3.8	-30	1879.999995	-10.00		4700
3.8	-20	1880.000006	1.00		4700
3.8	-10	1879.999997	-8.00		4700
3.8	0	1880.000002	-3.00		4700
3.8	10	1880.000005	0.00		4700
3.8	20	1880.000005	0.00		4700
3.8	30	1879.999997	-8.00		4700
3.8	40	1879.999998	-7.00		4700
3.8	50	1880.000006	1.00		4700

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	5M 16QAM CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)		Limit (Hz)
Vdc	Temperature ()	(MHz)			
3.8	-30	1879.999997	-7.00		4700
3.8	-20	1880.000005	1.00		4700
3.8	-10	1880.000005	1.00		4700
3.8	0	1879.999998	-6.00		4700
3.8	10	1880.000003	-1.00		4700
3.8	20	1880.000004	0.00		4700
3.8	30	1880.000006	2.00		4700
3.8	40	1880.000004	0.00		4700
3.8	50	1880.000003	-1.00		4700

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Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 10M QPSK CH 18900				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	1880.000004	-1.00	4700
3.8	-20	1879.999997	-8.00	4700
3.8	-10	1880.000005	0.00	4700
3.8	0	1879.999997	-8.00	4700
3.8	10	1880.000004	-1.00	4700
3.8	20	1880.000005	0.00	4700
3.8	30	1880.000003	-2.00	4700
3.8	40	1879.999996	-9.00	4700
3.8	50	1880.000007	2.00	4700

Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 10M 16QAM CH 18900				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	1880.000009	6.00	4700
3.8	-20	1880.000004	1.00	4700
3.8	-10	1880.000003	0.00	4700
3.8	0	1880.000004	1.00	4700
3.8	10	1879.999995	-8.00	4700
3.8	20	1880.000003	0.00	4700
3.8	30	1880.000003	0.00	4700
3.8	40	1880.000002	-1.00	4700
3.8	50	1879.999996	-7.00	4700

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Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	15M QPSK CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.8	-30	1879.999997	-8.00	4700	
3.8	-20	1880.000003	-2.00	4700	
3.8	-10	1880.000002	-3.00	4700	
3.8	0	1880.000005	0.00	4700	
3.8	10	1879.999998	-7.00	4700	
3.8	20	1880.000005	0.00	4700	
3.8	30	1880.000004	-1.00	4700	
3.8	40	1880.000002	-3.00	4700	
3.8	50	1880.000004	-1.00	4700	

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	15M 16QAM CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.8	-30	1879.999997	-6.00	4700	
3.8	-20	1880.000002	-1.00	4700	
3.8	-10	1880.000006	3.00	4700	
3.8	0	1879.999993	-10.00	4700	
3.8	10	1880.000002	-1.00	4700	
3.8	20	1880.000003	0.00	4700	
3.8	30	1880.000006	3.00	4700	
3.8	40	1879.999997	-6.00	4700	
3.8	50	1880.000001	-2.00	4700	

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Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 20M QPSK CH 18900				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	1879.999995	-9.00	4700
3.8	-20	1879.999997	-7.00	4700
3.8	-10	1879.999999	-5.00	4700
3.8	0	1880.000002	-2.00	4700
3.8	10	1879.999997	-7.00	4700
3.8	20	1880.000004	0.00	4700
3.8	30	1880.000003	-1.00	4700
3.8	40	1879.999997	-7.00	4700
3.8	50	1880.000002	-2.00	4700

Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 20M 16QAM CH 18900				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	1880.000005	2.00	4700
3.8	-20	1880.000003	0.00	4700
3.8	-10	1879.999996	-7.00	4700
3.8	0	1880.000002	-1.00	4700
3.8	10	1880.000001	-2.00	4700
3.8	20	1880.000003	0.00	4700
3.8	30	1879.999995	-8.00	4700
3.8	40	1879.999998	-5.00	4700
3.8	50	1880.000003	0.00	4700

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Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	1.4M QPSK CH 20525
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)		Limit (Hz)
Vdc	Temperature ()	(MHz)			
3.8	-30	836.500022	25.00		2091
3.8	-20	836.500018	21.00		2091
3.8	-10	836.500016	19.00		2091
3.8	0	836.500005	8.00		2091
3.8	10	836.500002	5.00		2091
3.8	20	836.499997	0.00		2091
3.8	30	836.499994	-3.00		2091
3.8	40	836.499995	-2.00		2091
3.8	50	836.499992	-5.00		2091

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	1.4M 16QAM CH 20525
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)		Limit (Hz)
Vdc	Temperature ()	(MHz)			
3.8	-30	836.500011	16.00		2091
3.8	-20	836.500009	14.00		2091
3.8	-10	836.500006	11.00		2091
3.8	0	836.500002	7.00		2091
3.8	10	836.499998	3.00		2091
3.8	20	836.499995	0.00		2091
3.8	30	836.499994	-1.00		2091
3.8	40	836.499990	-5.00		2091
3.8	50	836.499991	-4.00		2091

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Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	3M QPSK CH 20525
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.8	-30	836.500013	18.00	2091	
3.8	-20	836.500005	10.00	2091	
3.8	-10	836.500003	8.00	2091	
3.8	0	836.500001	6.00	2091	
3.8	10	836.499998	3.00	2091	
3.8	20	836.499995	0.00	2091	
3.8	30	836.499992	-3.00	2091	
3.8	40	836.499990	-5.00	2091	
3.8	50	836.499989	-6.00	2091	

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	3M 16QAM CH 20525
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.8	-30	836.500009	12.00	2091	
3.8	-20	836.500006	9.00	2091	
3.8	-10	836.500007	10.00	2091	
3.8	0	836.500005	8.00	2091	
3.8	10	836.500002	5.00	2091	
3.8	20	836.499997	0.00	2091	
3.8	30	836.499994	-3.00	2091	
3.8	40	836.499993	-4.00	2091	
3.8	50	836.499994	-3.00	2091	

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Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	5M QPSK CH 20525
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)		Limit (Hz)
Vdc	Temperature ()	(MHz)			
3.8	-30	836.500011	14.00		2091
3.8	-20	836.500005	8.00		2091
3.8	-10	836.500006	9.00		2091
3.8	0	836.500002	5.00		2091
3.8	10	836.500004	7.00		2091
3.8	20	836.499997	0.00		2091
3.8	30	836.499992	-5.00		2091
3.8	40	836.499991	-6.00		2091
3.8	50	836.499990	-7.00		2091

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	5M 16QAM CH 20525
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)		Limit (Hz)
Vdc	Temperature ()	(MHz)			
3.8	-30	836.500015	14.00		2091
3.8	-20	836.500010	9.00		2091
3.8	-10	836.500008	7.00		2091
3.8	0	836.500003	2.00		2091
3.8	10	836.500005	4.00		2091
3.8	20	836.500001	0.00		2091
3.8	30	836.499994	-7.00		2091
3.8	40	836.499992	-9.00		2091
3.8	50	836.499992	-9.00		2091

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Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	10M QPSK CH 20525
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)		Limit (Hz)
Vdc	Temperature ()	(MHz)			
3.8	-30	836.500009	15.00		2091
3.8	-20	836.500007	13.00		2091
3.8	-10	836.500003	9.00		2091
3.8	0	836.500002	8.00		2091
3.8	10	836.499997	3.00		2091
3.8	20	836.499994	0.00		2091
3.8	30	836.499992	-2.00		2091
3.8	40	836.499995	1.00		2091
3.8	50	836.499996	2.00		2091

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	10M 16QAM CH 20525
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)		Limit (Hz)
Vdc	Temperature ()	(MHz)			
3.8	-30	836.500016	19.00		2091
3.8	-20	836.500011	14.00		2091
3.8	-10	836.500006	9.00		2091
3.8	0	836.500005	8.00		2091
3.8	10	836.500002	5.00		2091
3.8	20	836.499997	0.00		2091
3.8	30	836.499991	-6.00		2091
3.8	40	836.499989	-8.00		2091
3.8	50	836.499992	-5.00		2091

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Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	5M QPSK CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.8	-30	2534.999988	-15.00	6338	
3.8	-20	2534.999994	-9.00	6338	
3.8	-10	2535.000005	2.00	6338	
3.8	0	2535.000002	-1.00	6338	
3.8	10	2535.000002	-1.00	6338	
3.8	20	2535.000003	0.00	6338	
3.8	30	2534.999998	-5.00	6338	
3.8	40	2534.999997	-6.00	6338	
3.8	50	2535.000002	-1.00	6338	

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	5M 16QAM CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.8	-30	2535.000008	5.00	6338	
3.8	-20	2535.000002	-1.00	6338	
3.8	-10	2534.999998	-5.00	6338	
3.8	0	2534.999998	-5.00	6338	
3.8	10	2534.999996	-7.00	6338	
3.8	20	2535.000003	0.00	6338	
3.8	30	2535.000003	0.00	6338	
3.8	40	2535.000005	2.00	6338	
3.8	50	2535.000002	-1.00	6338	

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Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	10M QPSK CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.8	-30	2535.000004	0.00	6338	
3.8	-20	2535.000002	-2.00	6338	
3.8	-10	2535.000004	0.00	6338	
3.8	0	2535.000005	1.00	6338	
3.8	10	2535.000001	-3.00	6338	
3.8	20	2535.000004	0.00	6338	
3.8	30	2535.000003	-1.00	6338	
3.8	40	2534.999999	-5.00	6338	
3.8	50	2535.000003	-1.00	6338	

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	10M 16QAM CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.8	-30	2535.000012	10.00	6338	
3.8	-20	2534.999999	-3.00	6338	
3.8	-10	2534.999997	-5.00	6338	
3.8	0	2535.000001	-1.00	6338	
3.8	10	2535.000002	0.00	6338	
3.8	20	2535.000002	0.00	6338	
3.8	30	2535.000003	1.00	6338	
3.8	40	2534.999997	-5.00	6338	
3.8	50	2535.000003	1.00	6338	

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Reference Frequency: LTE B7 Mid Channel 2535.0 MHz 15M QPSK CH 21100				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	2534.999993	-10.00	6338
3.8	-20	2535.000002	-1.00	6338
3.8	-10	2534.999995	-8.00	6338
3.8	0	2535.000002	-1.00	6338
3.8	10	2535.000003	0.00	6338
3.8	20	2535.000003	0.00	6338
3.8	30	2534.999997	-6.00	6338
3.8	40	2535.000002	-1.00	6338
3.8	50	2534.999996	-7.00	6338

Reference Frequency: LTE B7 Mid Channel 2535.0 MHz 15M 16QAM CH 21100				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	2534.999998	-4.00	6338
3.8	-20	2535.000004	2.00	6338
3.8	-10	2534.999994	-8.00	6338
3.8	0	2535.000003	1.00	6338
3.8	10	2535.000008	6.00	6338
3.8	20	2535.000002	0.00	6338
3.8	30	2535.000002	0.00	6338
3.8	40	2534.999996	-6.00	6338
3.8	50	2535.000002	0.00	6338

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Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	2535.000003	1.00	6338
3.8	-20	2535.000004	2.00	6338
3.8	-10	2534.999997	-5.00	6338
3.8	0	2534.999995	-7.00	6338
3.8	10	2534.999998	-4.00	6338
3.8	20	2535.000002	0.00	6338
3.8	30	2534.999998	-4.00	6338
3.8	40	2535.000004	2.00	6338
3.8	50	2535.000003	1.00	6338

Reference Frequency: LTE B7 Mid Channel 2535.0 MHz 20M 16QAM CH 21100				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	2534.999991	-13.00	6338
3.8	-20	2534.999995	-9.00	6338
3.8	-10	2534.999994	-10.00	6338
3.8	0	2535.000004	0.00	6338
3.8	10	2535.000002	-2.00	6338
3.8	20	2535.000004	0.00	6338
3.8	30	2535.000003	-1.00	6338
3.8	40	2535.000004	0.00	6338
3.8	50	2534.999998	-6.00	6338

Note: The battery is rated 3.8V 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: ± 2.5 ppm for 850MHz band

± 2.5 ppm for 1900MHz band

± 2.5 ppm for 2500MHz band

12.2. Test Set-up:

Refer to section 11.2 in this report

12.3. Measurement Procedure:

Set chamber temperature to 25 °C. 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 ($\pm 15\%$) 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 = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.35	25	836.599986	2	2091
3.8	25	836.599984	0	2091
3.4	25	836.599972	-12	2091
2.9 (End point)	25	836.599937	-47	2091

GPRS1900

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.35	25	1879.999984	-1	4700
3.8	25	1879.999985	0	4700
3.4	25	1879.999989	4	4700
2.9 (End point)	25	1879.999928	-57	4700

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WCDMA II

Reference Frequency: WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.35	25	1880.000016	6	4700
3.8	25	1880.000010	0	4700
3.4	25	1879.999994	-16	4700
2.9 (End point)	25	1879.999956	-54	4700

WCDMA V

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.35	25	836.600012	14	2091
3.8	25	836.599998	0	2091
3.4	25	836.600011	13	2091
2.9 (End point)	25	836.599933	-65	2091

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Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	1.4M QPSK CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	1880.000005	1.00	4700	
3.8	25	1880.000004	0.00	4700	
3.40	25	1880.000007	3.00	4700	
2.9 (End Point)	25	1880.000033	29.00	4700	

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	1.4M 16 QAM CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	1880.000002	-1.00	4700	
3.8	25	1880.000003	0.00	4700	
3.40	25	1880.000004	1.00	4700	
2.9 (End Point)	25	1880.000028	25.00	4700	

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Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	3M QPSK CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	1880.000005	1.00	4700	
3.8	25	1880.000004	0.00	4700	
3.40	25	1880.000006	2.00	4700	
2.9 (End Point)	25	1880.000029	25.00	4700	

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	3M 16 QAM CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	1880.000003	-2.00	4700	
3.8	25	1880.000005	0.00	4700	
3.40	25	1880.000002	-3.00	4700	
2.9 (End Point)	25	1880.000035	30.00	4700	

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Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	5M QPSK CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	1880.000002	-1.00	4700	
3.8	25	1880.000003	0.00	4700	
3.40	25	1880.000003	0.00	4700	
2.9 (End Point)	25	1880.000028	25.00	4700	

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	5M 16 QAM CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	1880.000003	1.00	4700	
3.8	25	1880.000002	0.00	4700	
3.40	25	1880.000006	4.00	4700	
2.9 (End Point)	25	1880.000033	31.00	4700	

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Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	1880.000003	-1.00	4700	
3.8	25	1880.000004	0.00	4700	
3.40	25	1880.000007	3.00	4700	
2.9 (End Point)	25	1880.000032	28.00	4700	

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	10M 16 QAM CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	1880.000006	4.00	4700	
3.8	25	1880.000002	0.00	4700	
3.40	25	1880.000003	1.00	4700	
2.9 (End Point)	25	1880.000035	33.00	4700	

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Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	15M QPSK CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	1880.000003	-2.00	4700	
3.8	25	1880.000005	0.00	4700	
3.40	25	1880.000004	-1.00	4700	
2.9 (End Point)	25	1880.000034	29.00	4700	

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	15M 16 QAM CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	1880.000004	1.00	4700	
3.8	25	1880.000003	0.00	4700	
3.40	25	1880.000006	3.00	4700	
2.9 (End Point)	25	1880.000037	34.00	4700	

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Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	20M QPSK CH
					18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	1880.000004	-1.00	4700	
3.8	25	1880.000005	0.00	4700	
3.40	25	1880.000006	1.00	4700	
2.9 (End Point)	25	1880.000032	27.00	4700	

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	20M 16 QAM CH
					18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	1880.000004	1.00	4700	
3.8	25	1880.000003	0.00	4700	
3.40	25	1880.000005	2.00	4700	
2.9 (End Point)	25	1880.000035	32.00	4700	

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Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	1.4M QPSK CH 20525
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	836.499996	2.00	2091	
3.8	25	836.499994	0.00	2091	
3.40	25	836.499998	4.00	2091	
2.9 (End Point)	25	836.499948	-46.00	2091	

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	1.4M 16 QAM CH 20525
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	836.499994	-1.00	2091	
3.8	25	836.499995	0.00	2091	
3.40	25	836.499998	3.00	2091	
2.9 (End Point)	25	836.499952	-43.00	2091	

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Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	3M QPSK CH 20525
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	836.499997	2.00	2091	
3.8	25	836.499995	0.00	2091	
3.40	25	836.499998	3.00	2091	
2.9 (End Point)	25	836.499972	-23.00	2091	

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	3M 16 QAM CH 20525
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	836.499994	-3.00	2091	
3.8	25	836.499997	0.00	2091	
3.40	25	836.499999	2.00	2091	
2.9 (End Point)	25	836.499967	-30.00	2091	

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Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	5M QPSK CH 20525
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	836.499993	-2.00	2091	
3.8	25	836.499995	0.00	2091	
3.40	25	836.499997	2.00	2091	
2.9 (End Point)	25	836.499969	-26.00	2091	

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	5M 16 QAM CH 20525
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	836.499991	-2.00	2091	
3.8	25	836.499993	0.00	2091	
3.40	25	836.499997	4.00	2091	
2.9 (End Point)	25	836.499954	-39.00	2091	

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Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	10M QPSK CH 20525
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	836.499992	-1.00	2091	
3.8	25	836.499993	0.00	2091	
3.40	25	836.499998	5.00	2091	
2.9 (End Point)	25	836.499956	-37.00	2091	

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	1.4M 16 QAM CH 20525
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	836.499992	-2.00	2091	
3.8	25	836.499994	0.00	2091	
3.40	25	836.499999	5.00	2091	
2.9 (End Point)	25	836.499951	-43.00	2091	

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Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	5M QPSK CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	2535.000002	-1.00	6338	
3.8	25	2535.000003	0.00	6338	
3.40	25	2535.000002	-1.00	6338	
2.9 (End Point)	25	2535.000044	41.00	6338	

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	5M 16 QAM CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	2535.000004	0.00	6338	
3.8	25	2535.000004	0.00	6338	
3.40	25	2535.000001	-3.00	6338	
2.9 (End Point)	25	2535.000034	30.00	6338	

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Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	10M QPSK CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	2535.000003	-1.00	6338	
3.8	25	2535.000004	0.00	6338	
3.40	25	2535.000003	-1.00	6338	
2.9 (End Point)	25	2535.000035	31.00	6338	

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	10M 16 QAM CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	2535.000003	1.00	6338	
3.8	25	2535.000002	0.00	6338	
3.40	25	2535.000003	1.00	6338	
2.9 (End Point)	25	2535.000029	27.00	6338	

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Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	15M QPSK CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	2535.000003	1.00	6338	
3.8	25	2535.000002	0.00	6338	
3.40	25	2535.000003	1.00	6338	
2.9 (End Point)	25	2535.000030	28.00	6338	

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	15M 16 QAM CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	2535.000003	-1.00	6338	
3.8	25	2535.000004	0.00	6338	
3.40	25	2535.000004	0.00	6338	
2.9 (End Point)	25	2535.000048	44.00	6338	

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Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	2535.000003	-1.00	6338	
3.8	25	2535.000004	0.00	6338	
3.40	25	2535.000003	-1.00	6338	
2.9 (End Point)	25	2535.000044	40.00	6338	

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	20M 16 QAM CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.35	25	2535.000004	1.00	6338	
3.8	25	2535.000003	0.00	6338	
3.40	25	2535.000002	-1.00	6338	
2.9 (End Point)	25	2535.000036	33.00	6338	

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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 \geq 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:

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 128(L)		Channel 190(M)		Channel 251(H)	
	824.2MHz		836.6MHz		848.8MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
GSM 850	8.97	13	9.34	13	9.83	13
GPRS 850	10.03	13	11.35	13	9.22	13
EDGE 850	12.41	13	12.55	13	12.35	13

TEST CONDITIONS	Peak-to-Average Ratio					
	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
GSM 1900	10.64	13	9.06	13	11.07	13
GPRS 1900	9.21	13	10.22	13	9.89	13
EDGE 1900	11.59	13	12.32	13	12.06	13

TEST CONDITIONS	Peak-to-Average Ratio					
	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	2.90	13	2.82	13	2.53	13
HSUPA Band II	3.70	13	3.77	13	3.15	13
HSDPA Band II	3.79	13	3.41	13	3.49	13

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TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 4132(L)		Channel 4183(M)		Channel 4233(H)	
	826.4MHz		836.6MHz		846.6MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
WCDMA Band V	3.20	13	3.07	13	3.17	13
HSUPA Band V	3.58	13	3.95	13	3.59	13
HSDPA Band V	3.63	13	3.98	13	3.80	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 18607 (L)		Channel 18900(M)		Channel 19193(H)	
	1850.7MHz		1880.0MHz		1909.3MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 2/BW:1.4M	5.52	13	5.75	13	5.12	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 18615(L)		Channel 18900(M)		Channel 19185(H)	
	1851.5MHz		1880.0MHz		1908.5MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 2/BW:3M	5.66	13	5.82	13	5.45	13

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TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 18625(L)		Channel 18900(M)		Channel 19175(H)	
	1852.5MHz		1880.0MHz		1907.5MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 2/BW:5M	5.91	13	6.03	13	5.83	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 18650(L)		Channel 18900(M)		Channel 19150(H)	
	1855.0MHz		1880.0MHz		1905.0MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 2/BW:10M	6.09	13	6.09	13	6.09	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 18675(L)		Channel 18900(M)		Channel 19125(H)	
	1857.5MHz		1880.0MHz		1902.5MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 2/BW:15M	6.59	13	6.51	13	6.60	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 18700(L)		Channel 18900(M)		Channel 19100(H)	
	1860.0MHz		1880.0MHz		1900.0MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 2/BW:20M	7.08	13	7.04	13	7.04	13

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TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 20407(L)		Channel 20525(M)		Channel 20643(H)	
	824.7MHz		836.5MHz		848.3MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 5/BW:1.4M	6.82	13	6.53	13	6.51	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 20415(L)		Channel 20525(M)		Channel 20643(H)	
	825.5MHz		836.5MHz		847.5MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 5/BW:3M	6.74	13	6.57	13	6.51	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 20425(L)		Channel 20525(M)		Channel 20625(H)	
	826.5MHz		836.5MHz		846.5MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 5/BW:5M	6.66	13	6.68	13	6.74	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 20450(L)		Channel 20525(M)		Channel 20600(H)	
	829.0MHz		836.5MHz		844.0MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 5/BW:10M	6.45	13	6.58	13	6.64	13

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TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 20775(L)		Channel 21100(M)		Channel 21425(H)	
	2502.5MHz		2535.0MHz		2567.5MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 7/BW:5M	6.29	13	6.27	13	6.08	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 20800 (L)		Channel 21100(M)		Channel 21400 (H)	
	2505.0MHz		2535.0MHz		2565.0MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 7/BW:10M	6.28	13	6.18	13	6.10	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 20825(L)		Channel 21100(M)		Channel 21375(H)	
	2507.5MHz		2535.5MHz		2562.5MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 7/BW:15M	6.61	13	6.53	13	6.54	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 20850(L)		Channel 21100(M)		Channel 21350(H)	
	2510.0MHz		2535.0MHz		2560.0MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 7/BW:20M	7.06	13	7.02	13	6.85	13

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13.5.2 Measurement Results:

Figure 13-1: GSM 850 Channel Low

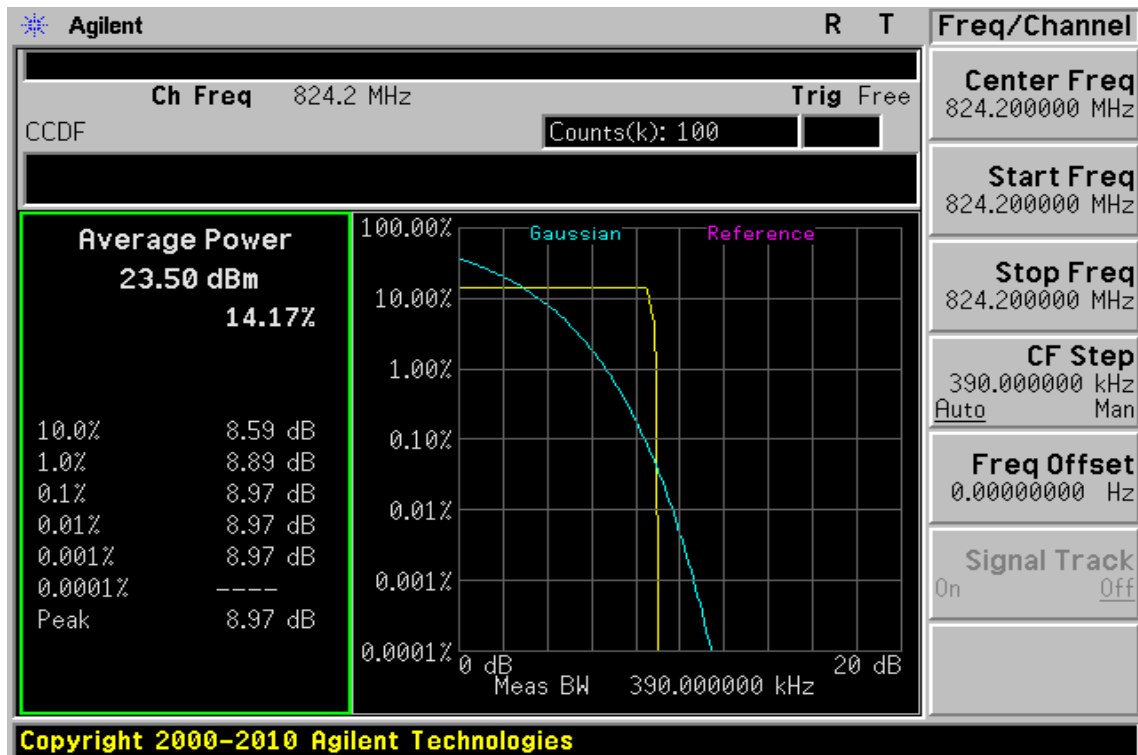
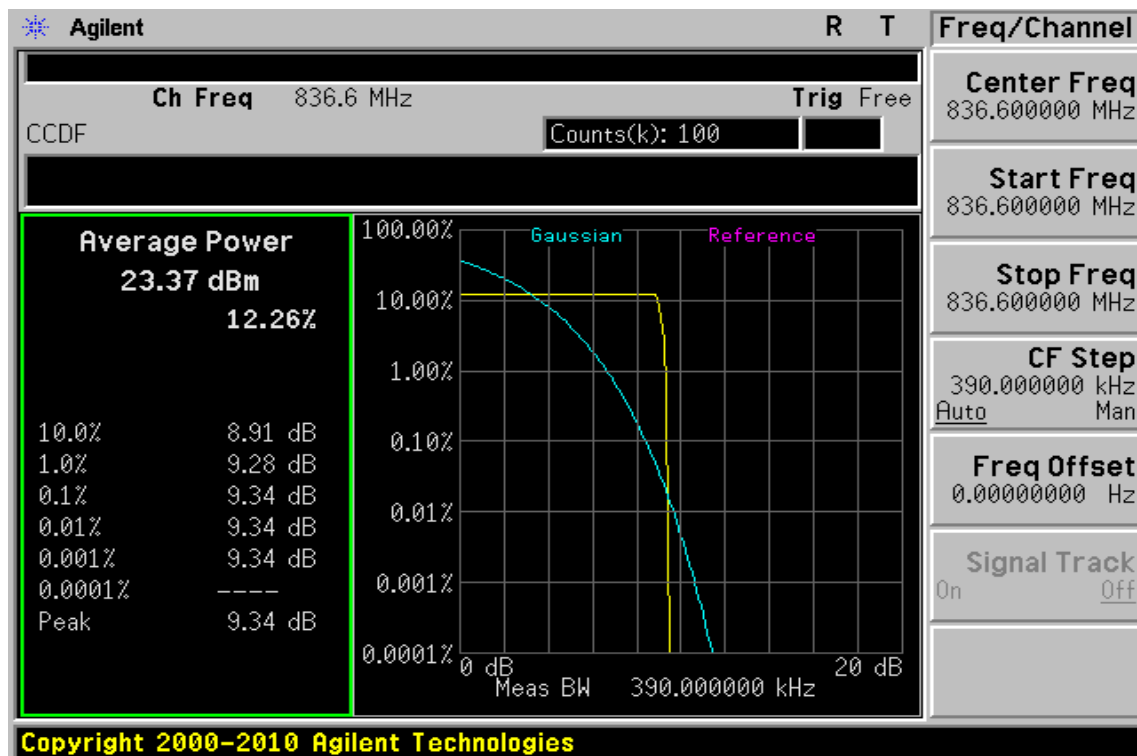


Figure 13-2: GSM 850 Channel Mid



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Figure 13-3: GSM 850 Channel High

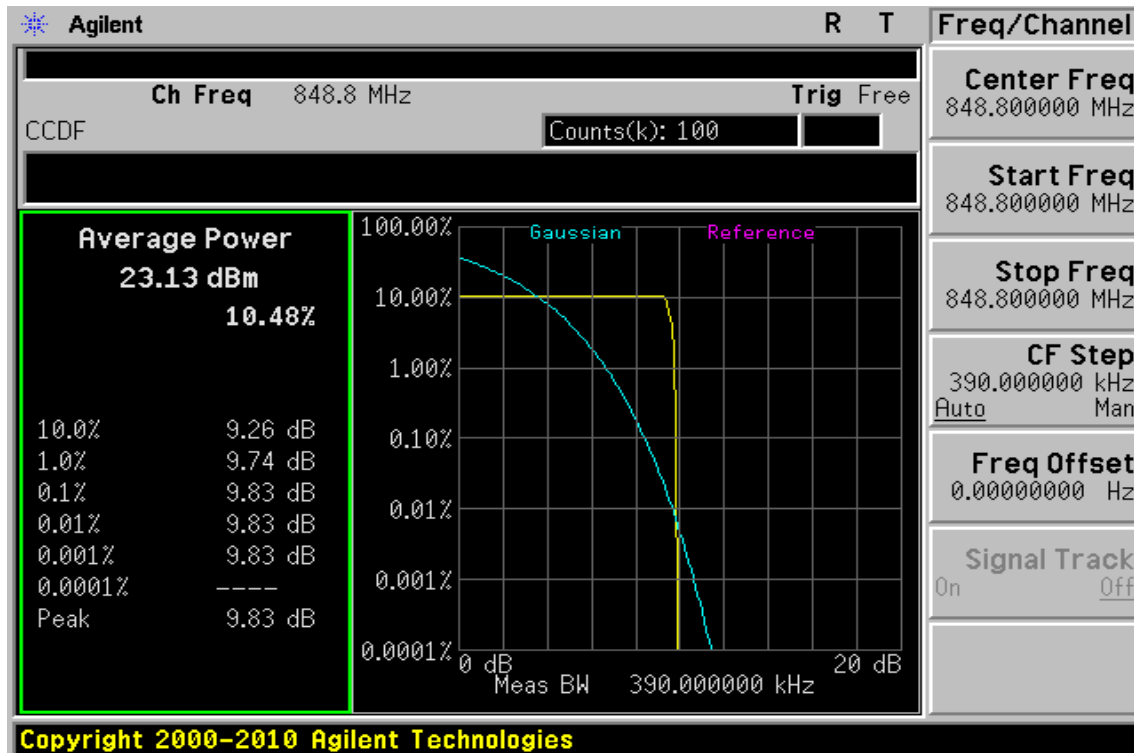
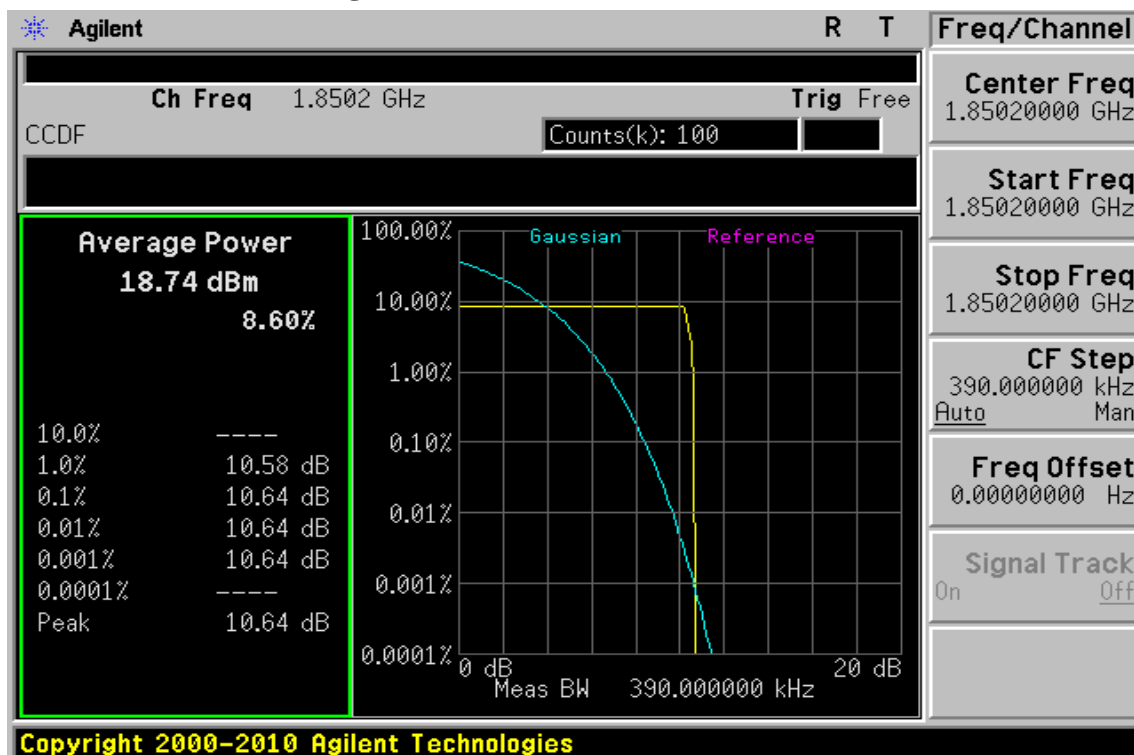


Figure 13-4: GSM 1900 Channel Low



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Figure 13-5: GSM 1900 Channel Mid

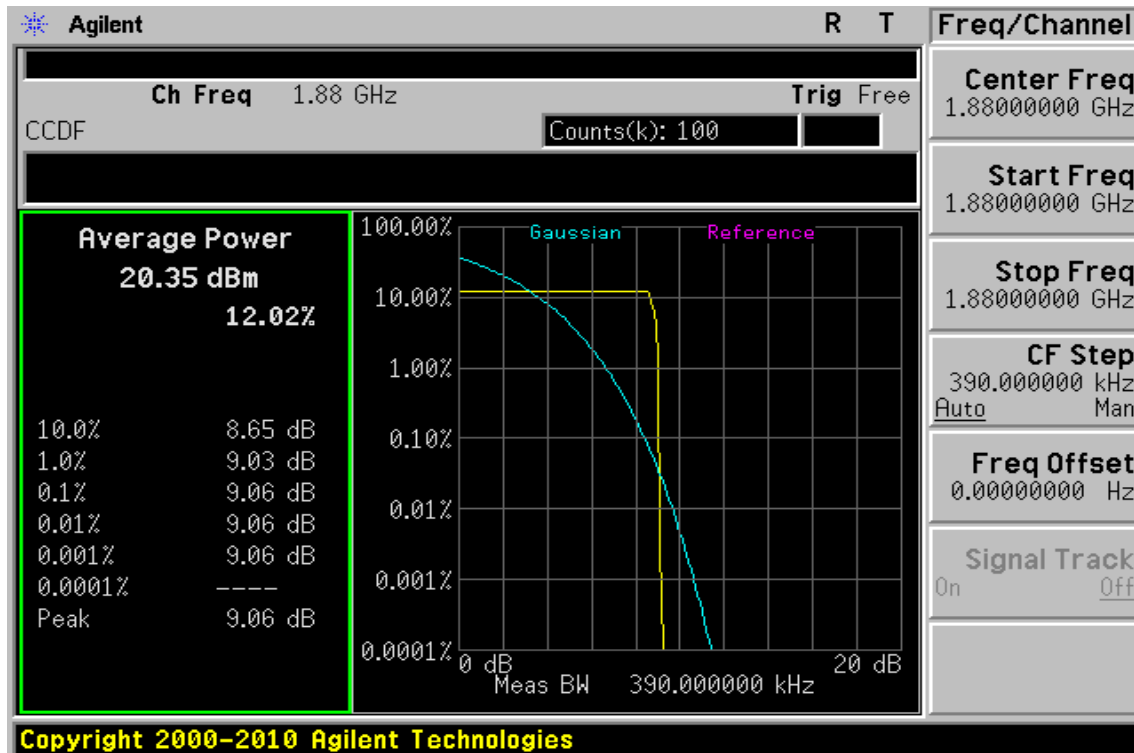
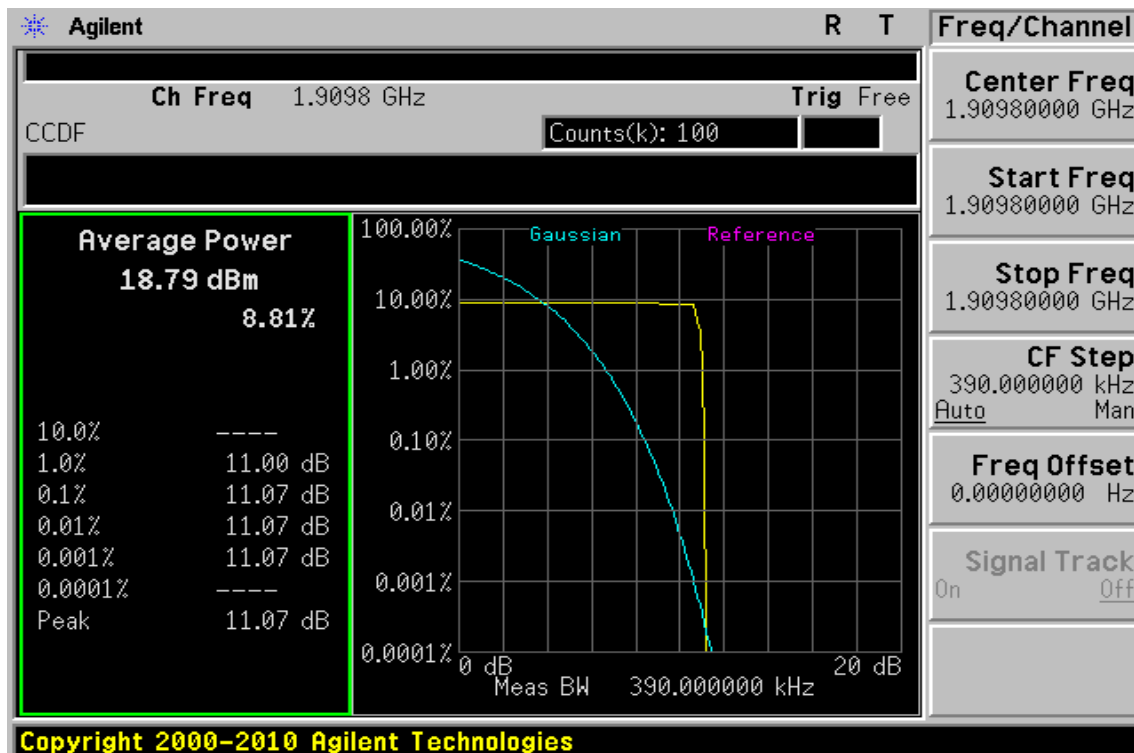


Figure 13-6: GSM 1900 Channel High



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Figure 13-7: GPRS 850 Channel Low

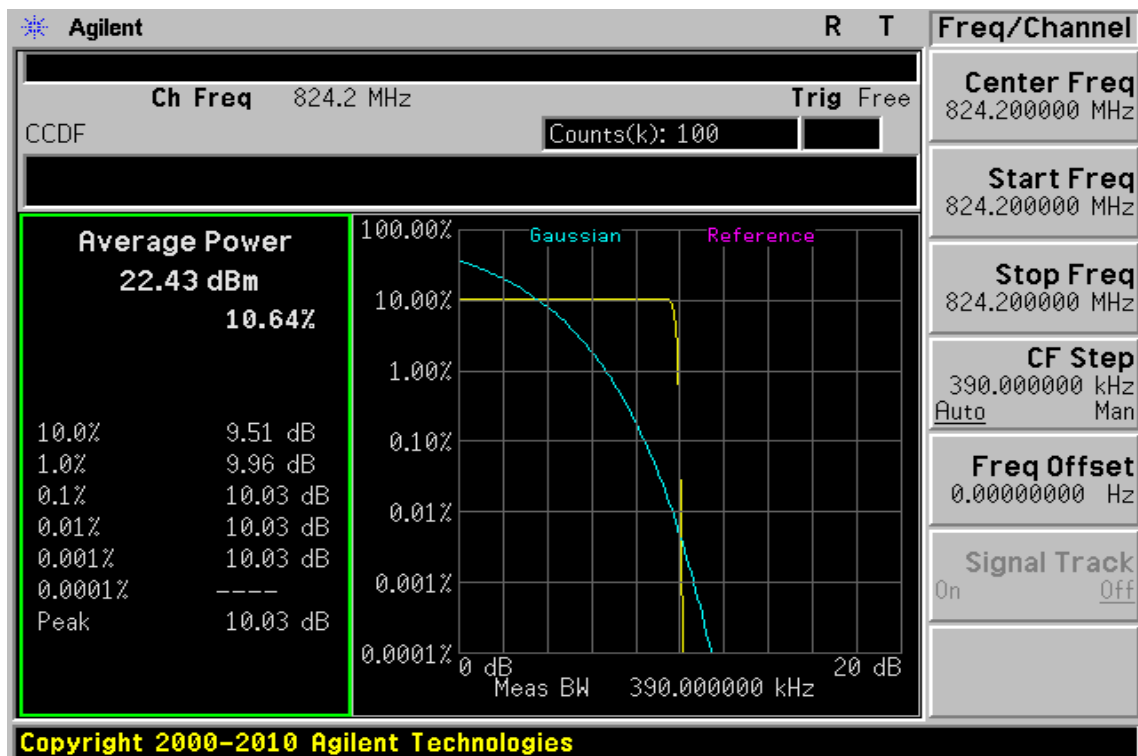
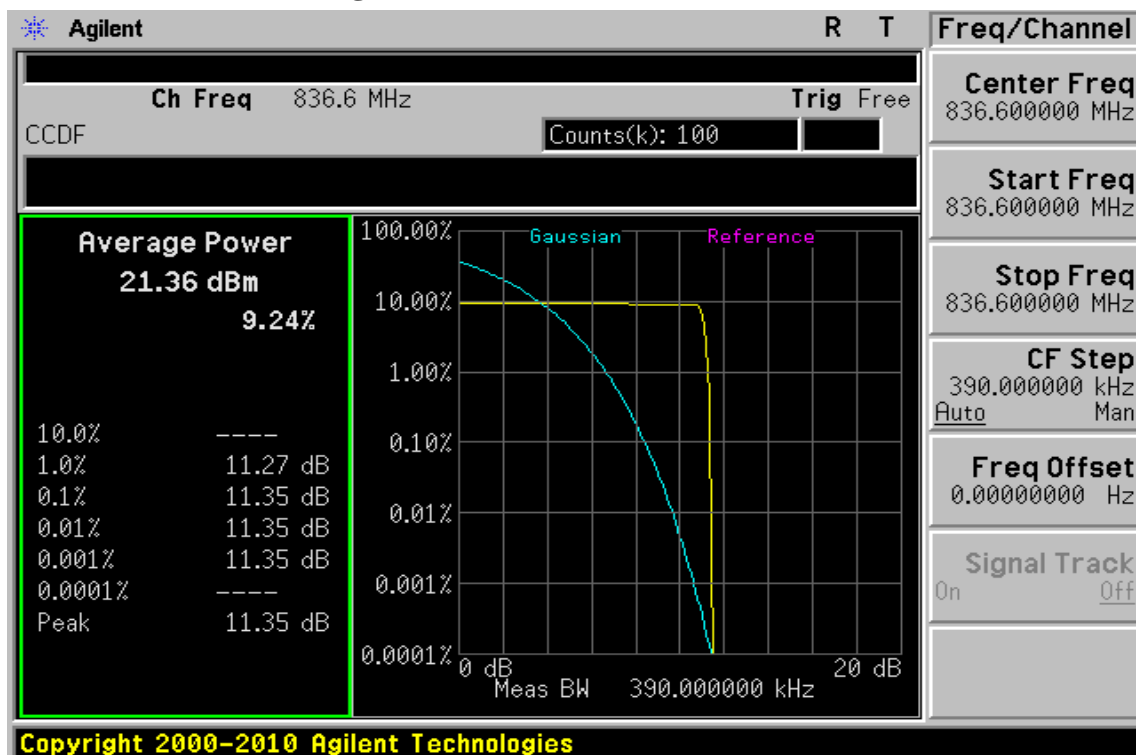


Figure 13-8: GPRS 850 Channel Mid



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Figure 13-9: GPRS 850 Channel High

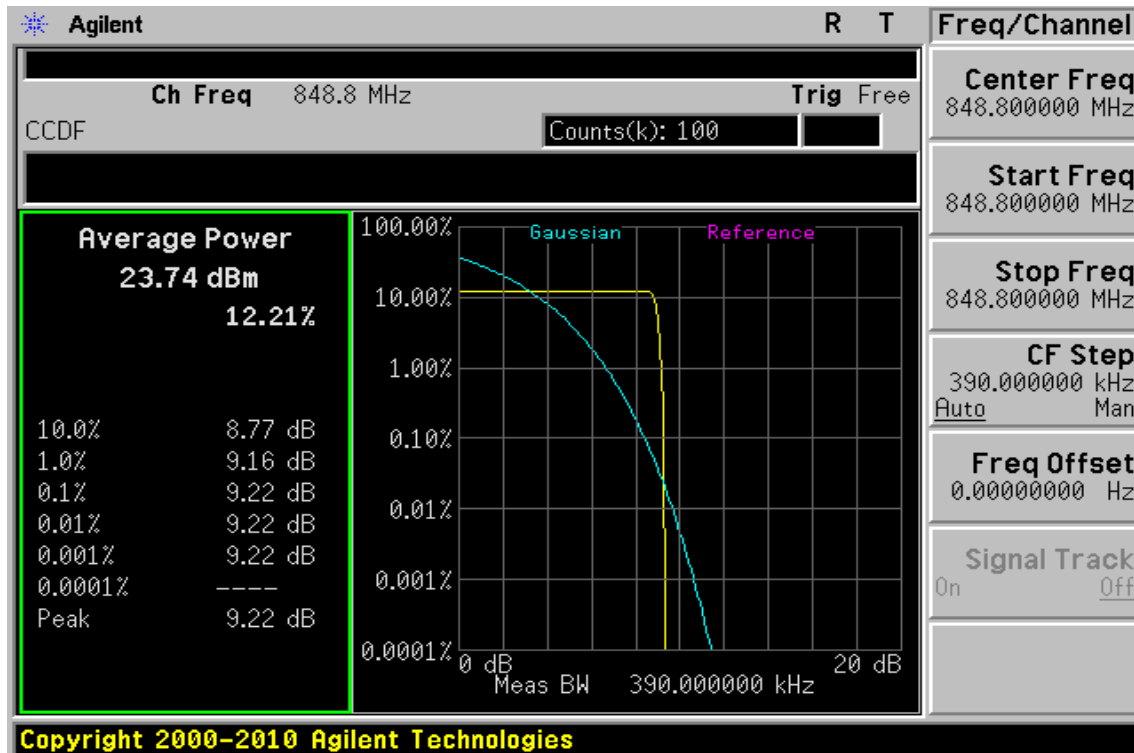
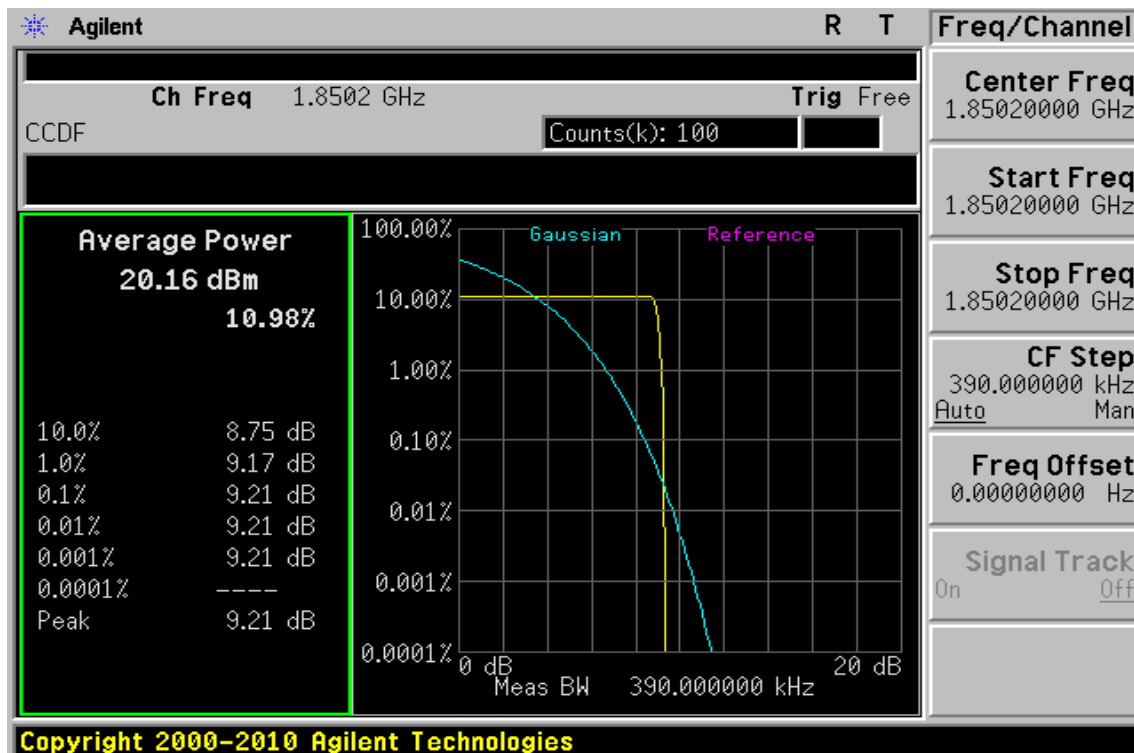


Figure 13-10: GPRS 1900 Channel Low



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Figure 13-11 GPRS 1900 Channel Mid

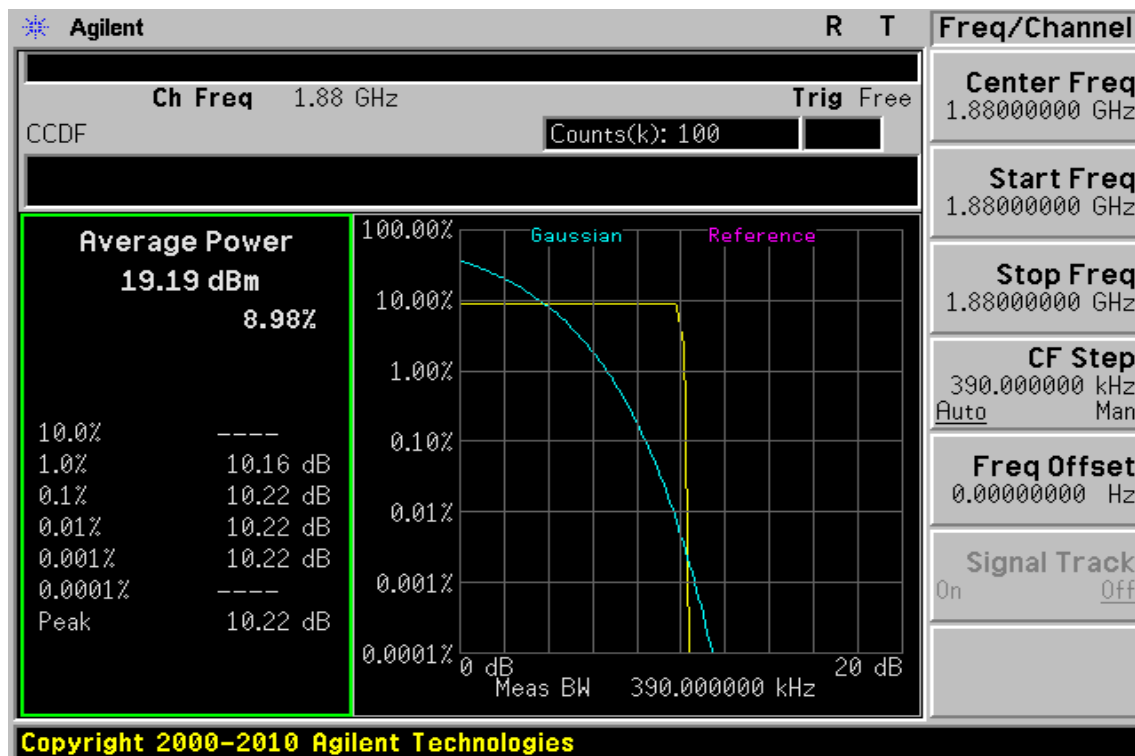


Figure 13-12: GPRS 1900 Channel High



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Figure 13-13: EDGE 850 Channel Low

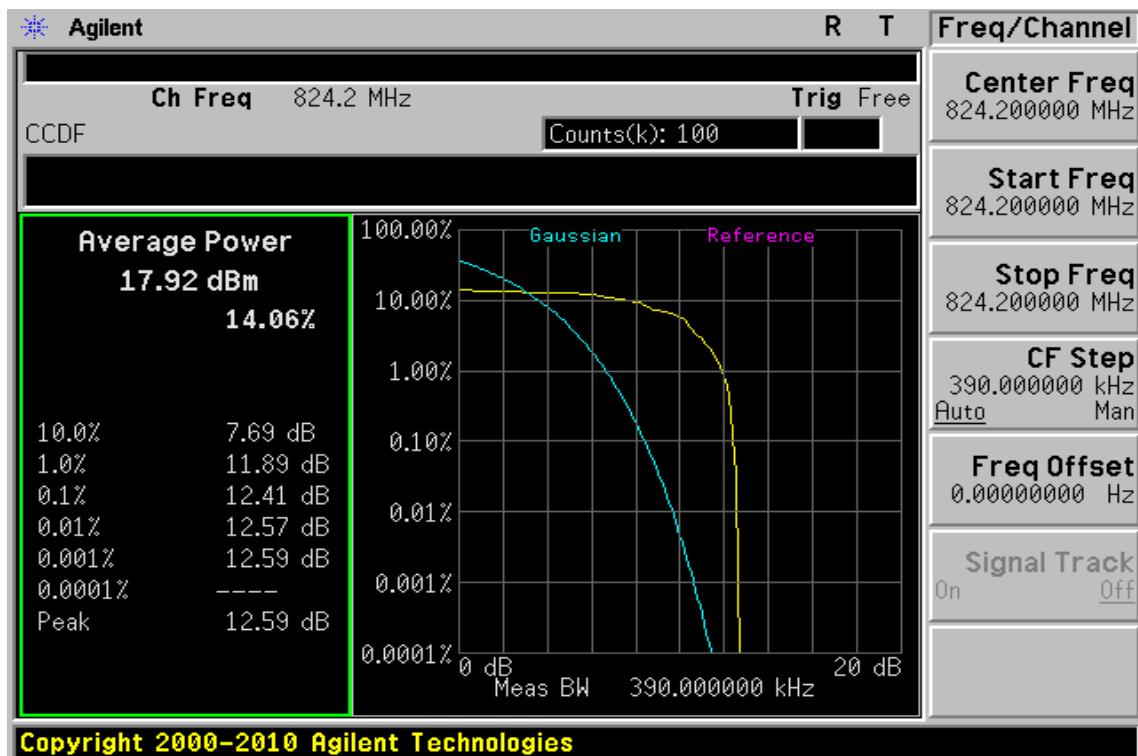
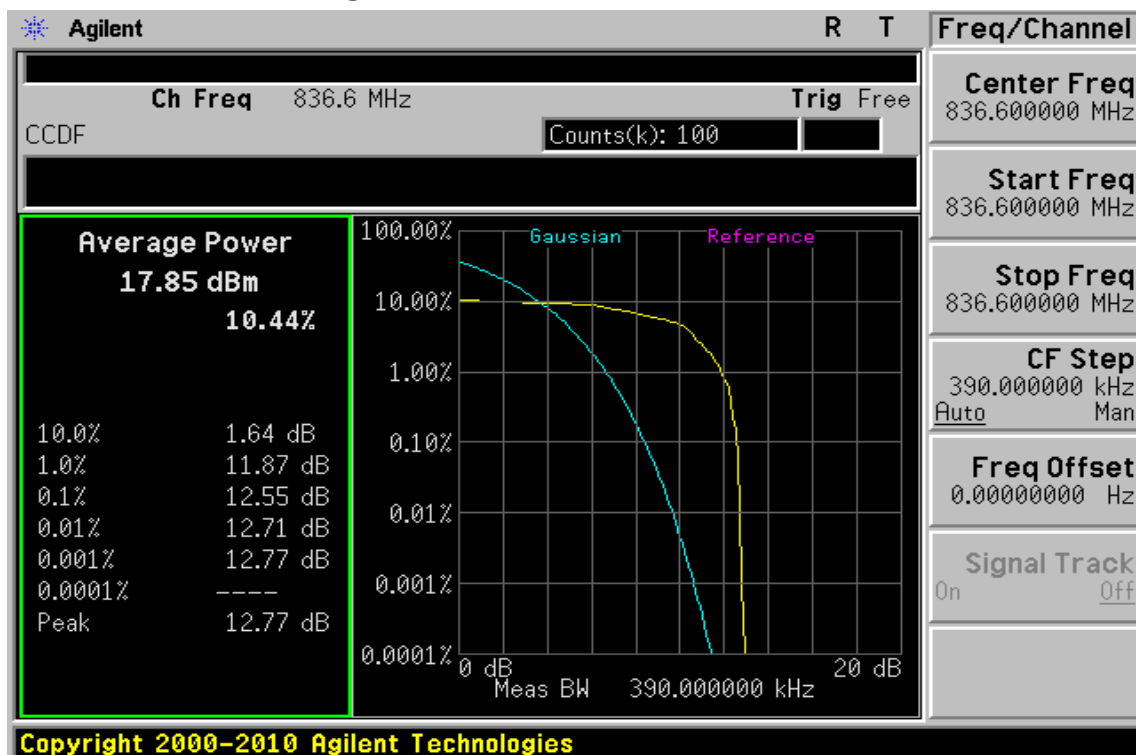


Figure 13-14 EDGE 850 Channel Mid



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Figure 13-15: EDGE 850 Channel High

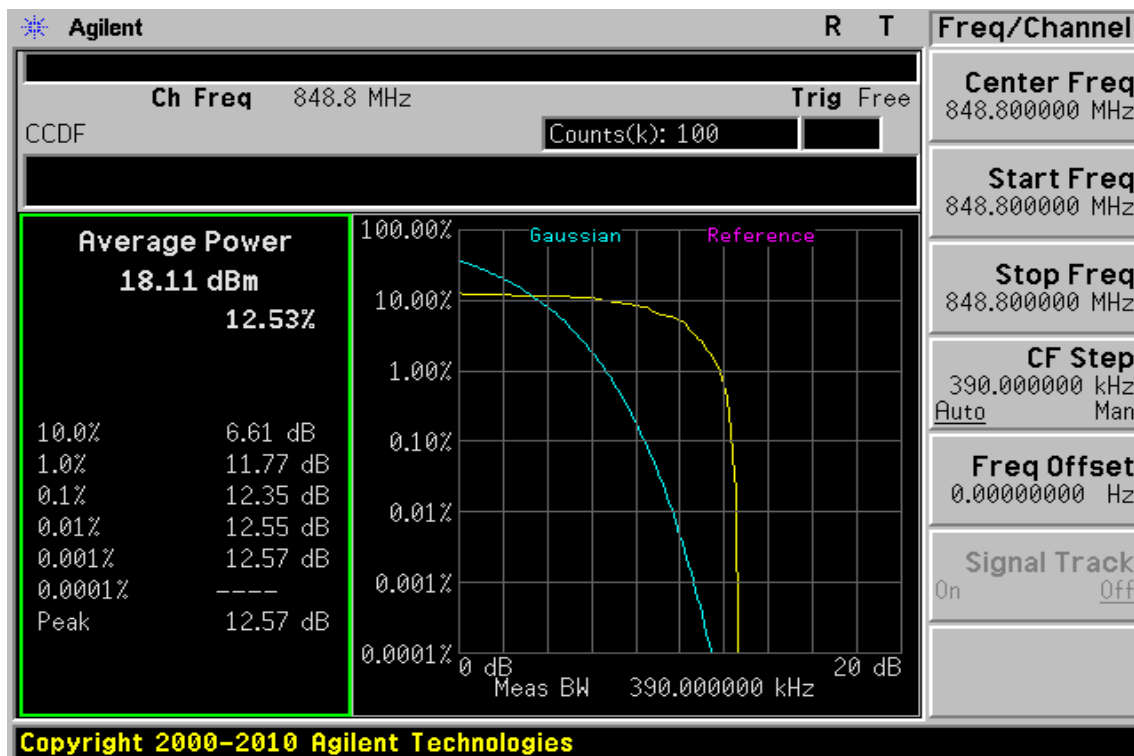
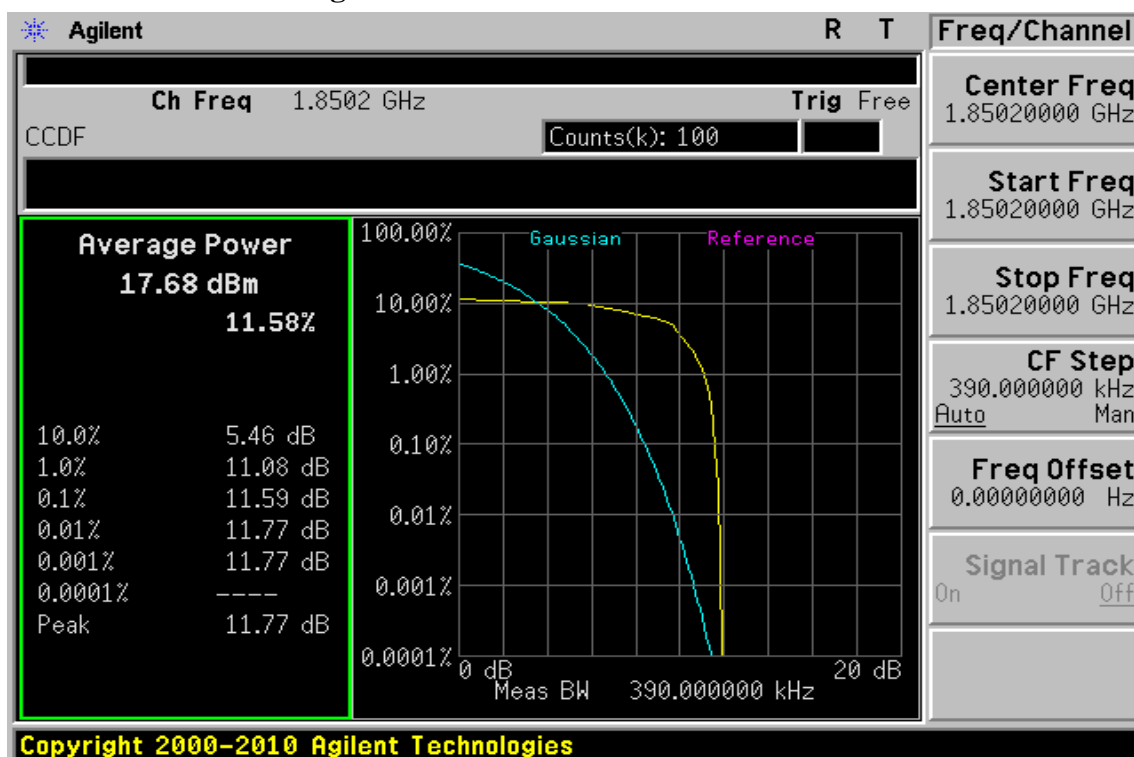


Figure 13-16: EDGE 1900 Channel Low



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Figure 13-17 EDGE 1900 Channel Mid

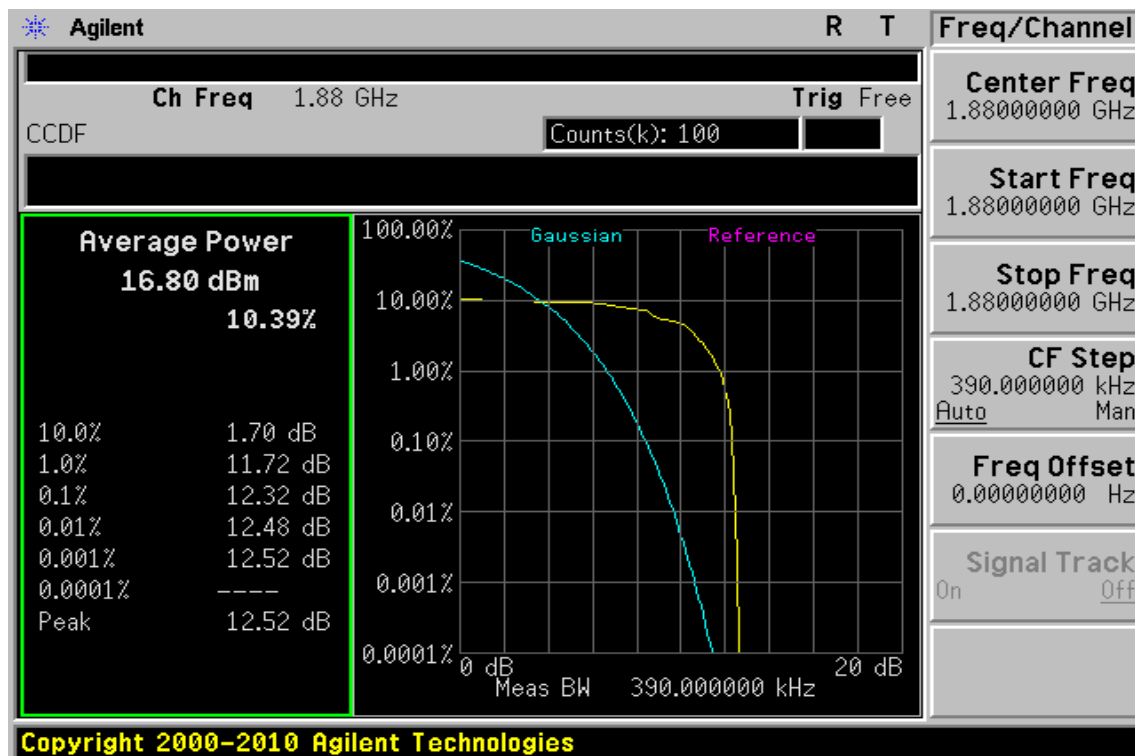


Figure 13-18: EDGE 1900 Channel High



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Figure 13-19: WCDMA Band II Channel Low

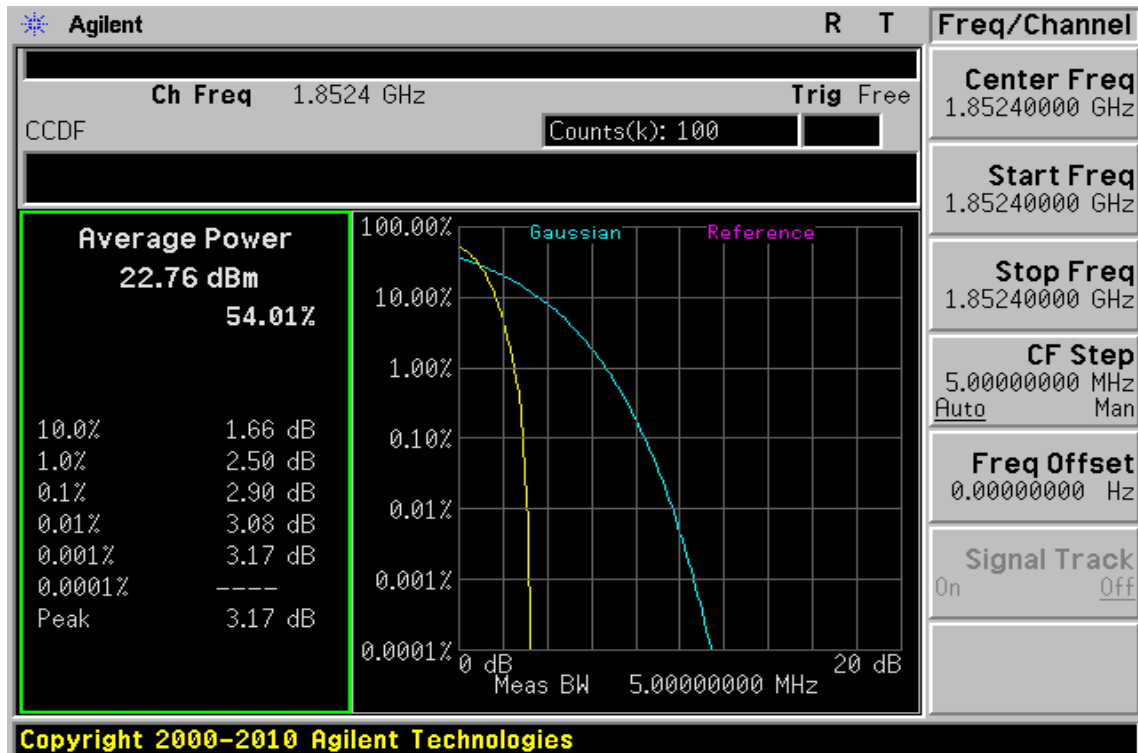
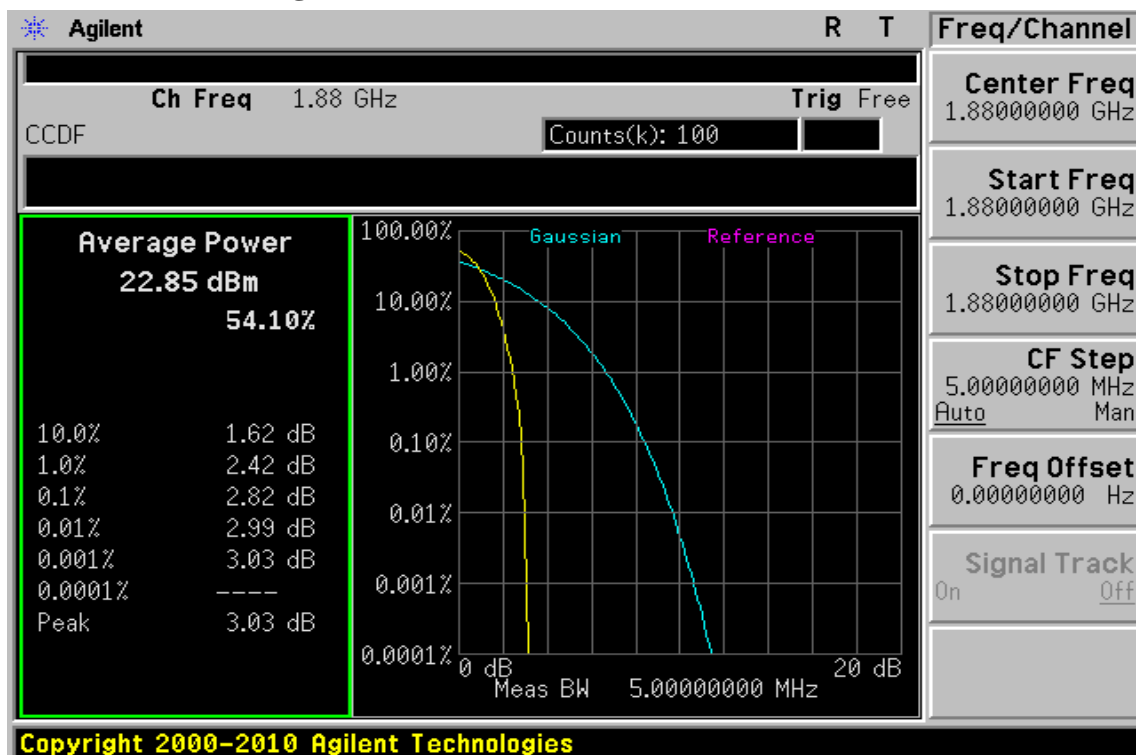


Figure 13-20: WCDMA Band II Channel Mid



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Figure 13-21: WCDMA Band II Channel High

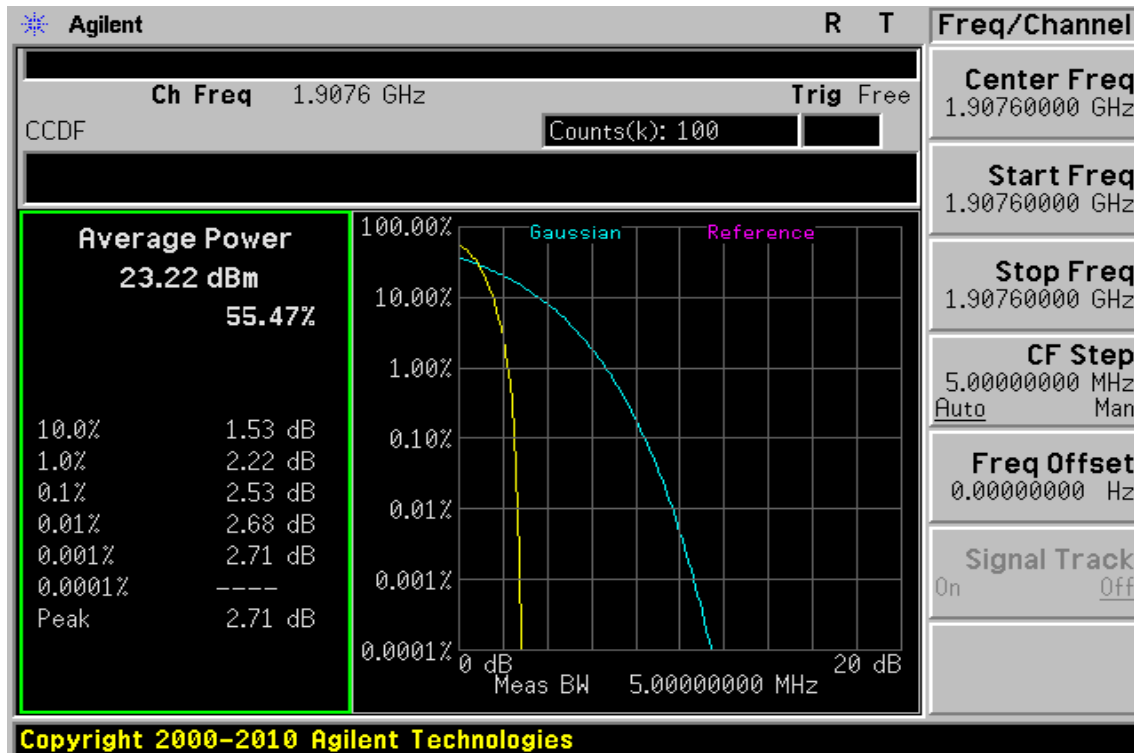
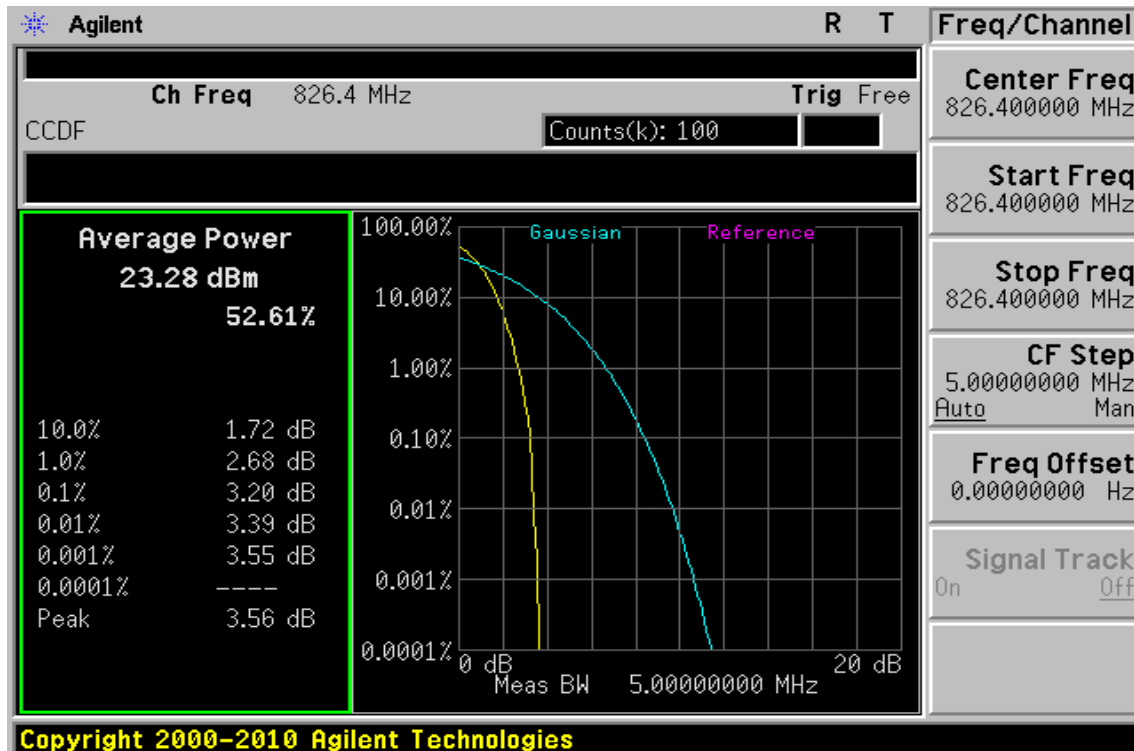


Figure 13-22: WCDMA Band V Channel Low



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Figure 13-23: WCDMA Band V Channel Mid

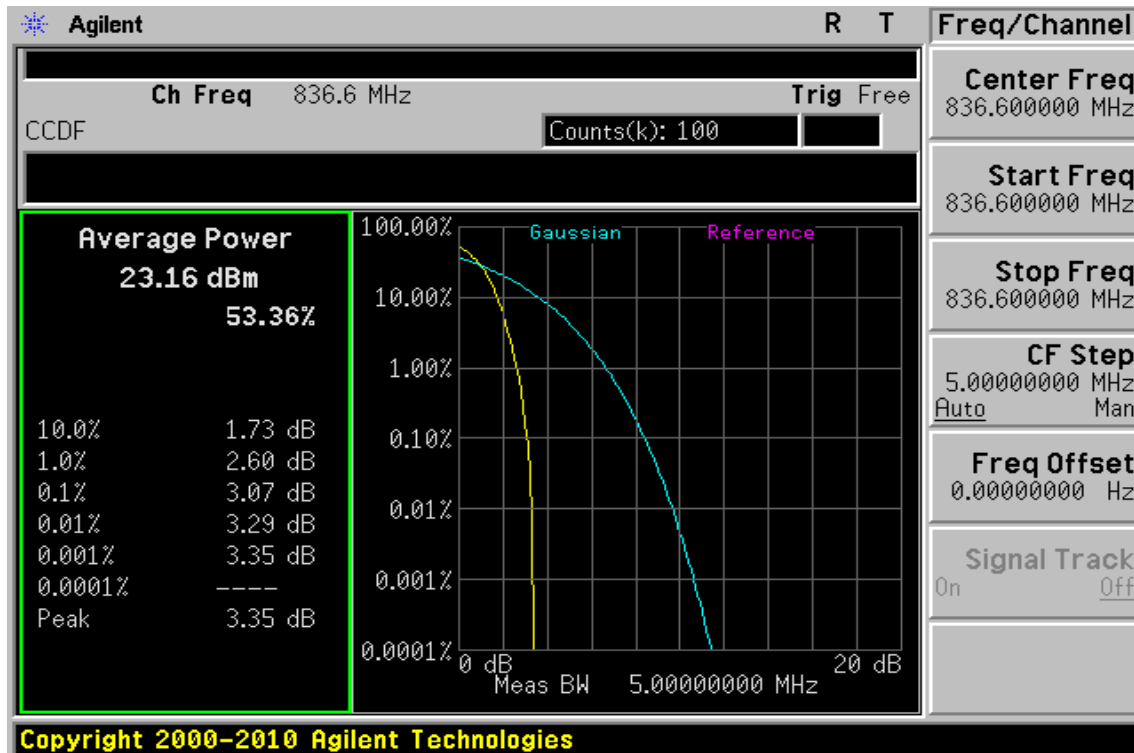
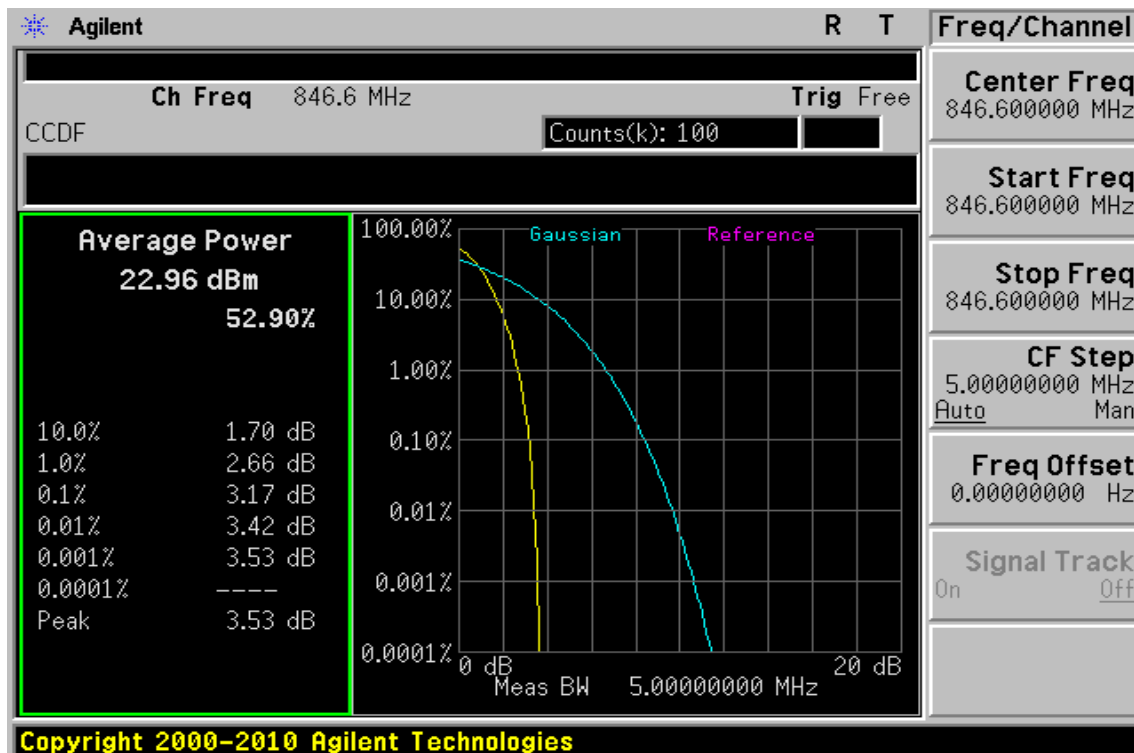


Figure 13-24: WCDMA Band V Channel High



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Figure 13-25: HSDPA Band II Channel Low

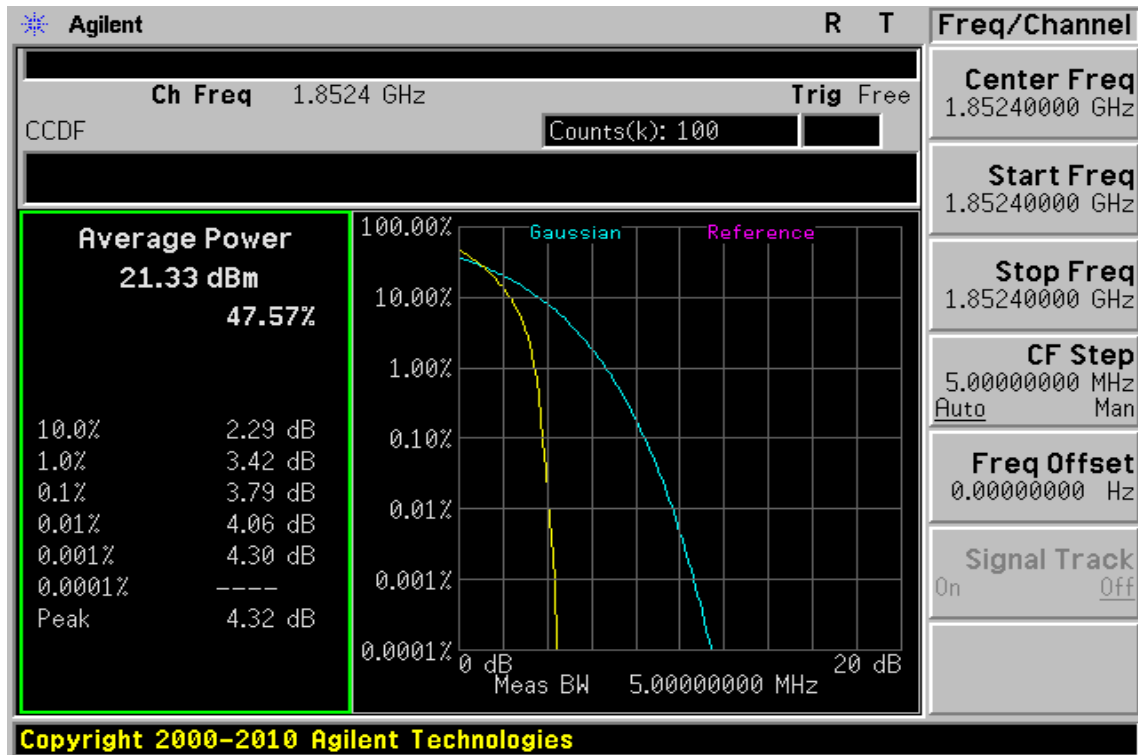
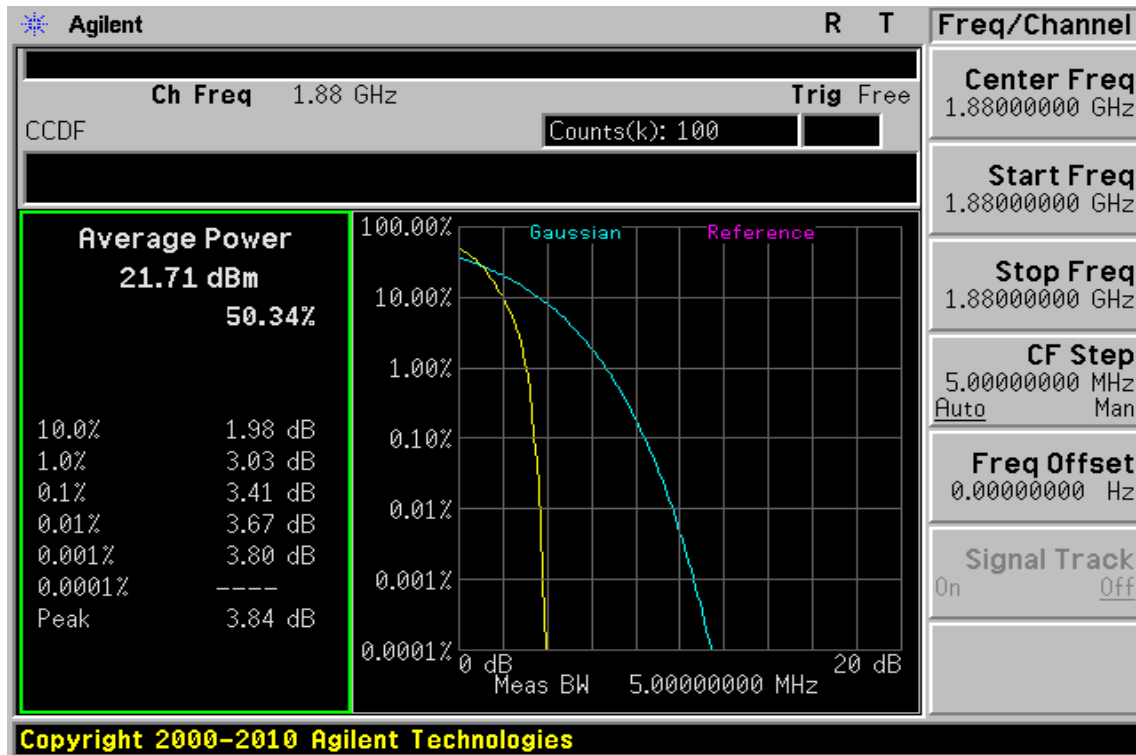


Figure 13-26: HSDPA Band II Channel Mid



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Figure 13-27: HSDPA Band II Channel High

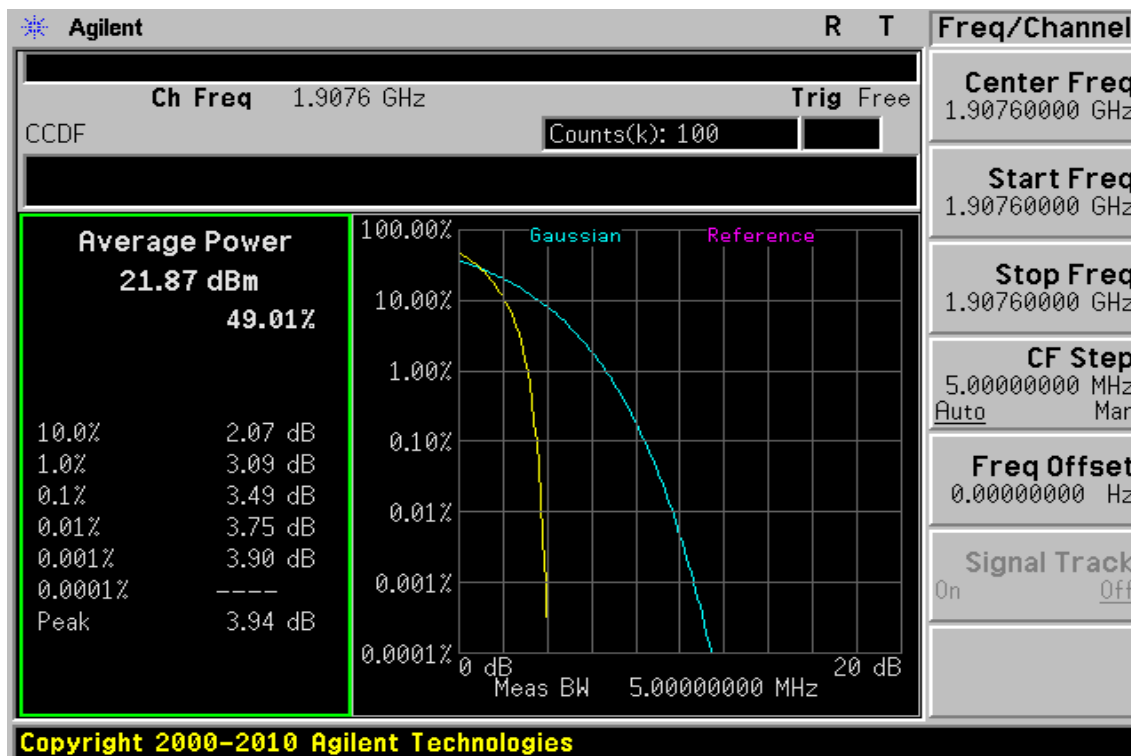
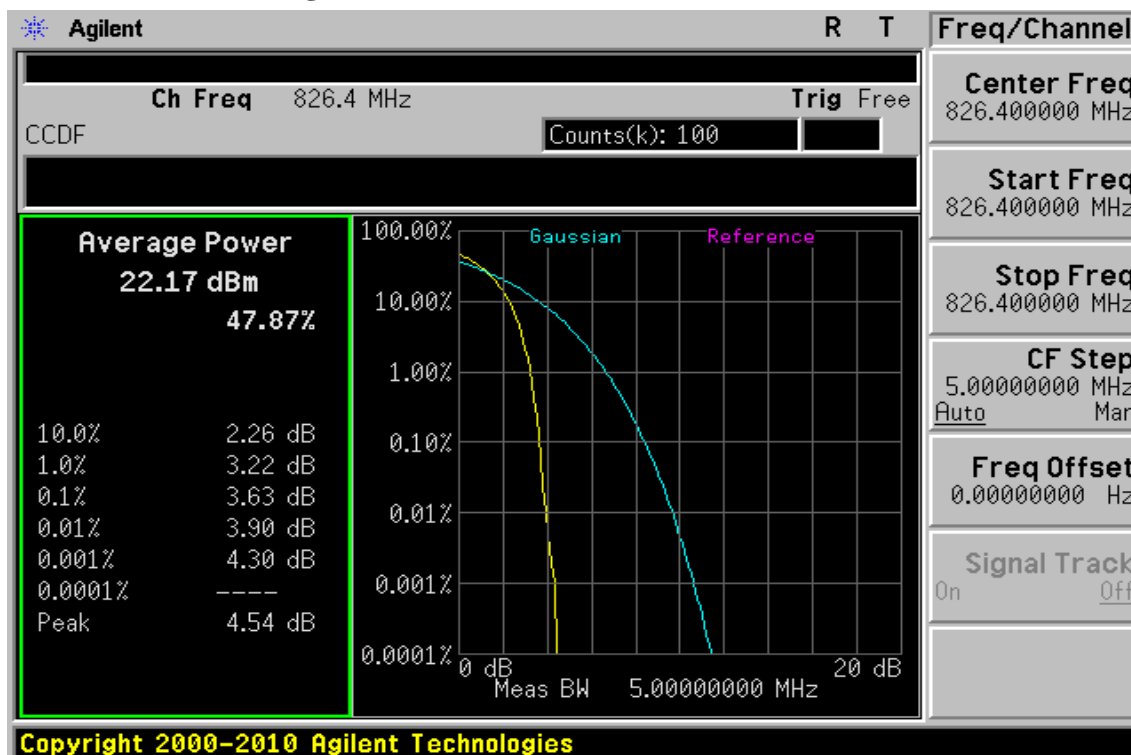


Figure 13-28: HSDPA Band V Channel Low



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Figure 13-29: HSDPA Band V Channel Mid

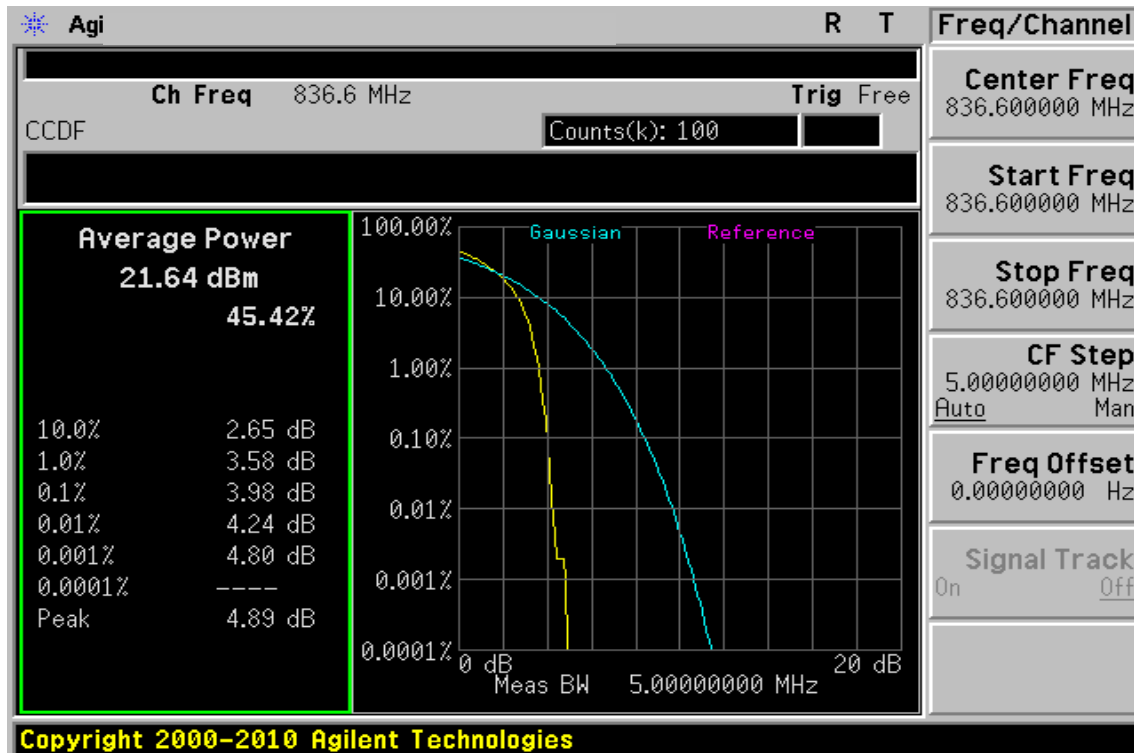
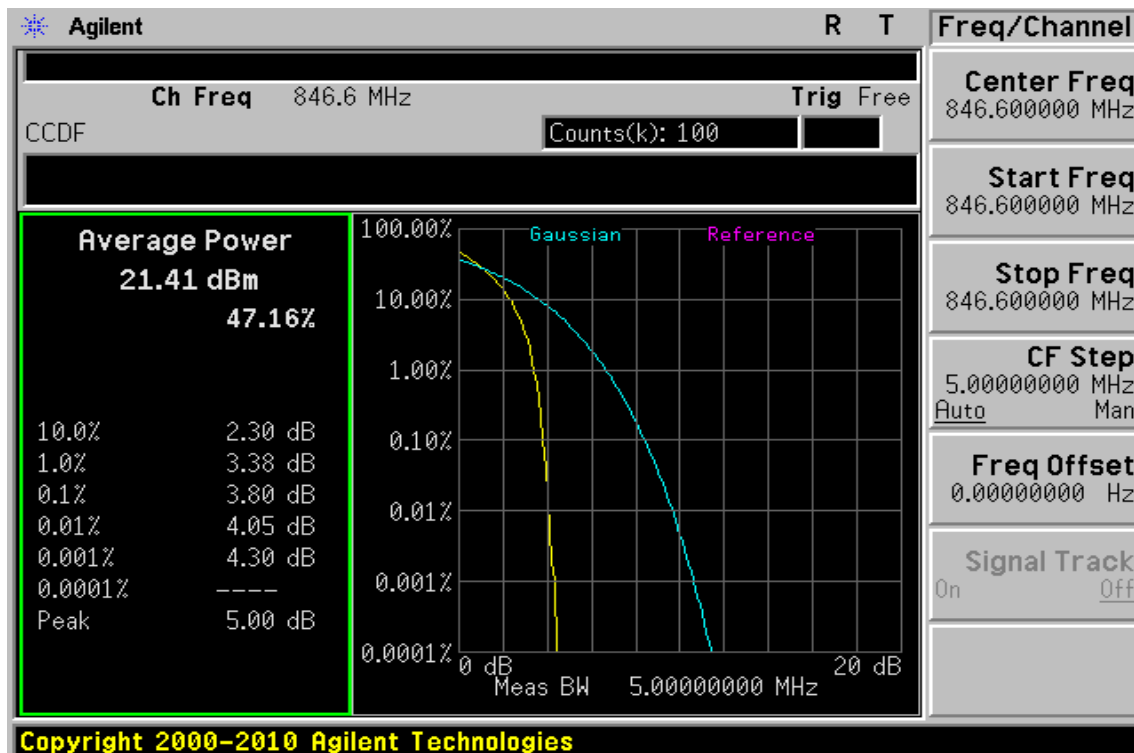


Figure 13-30: HSDPA Band V Channel High



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Figure 13-31: HSUPA Band II Channel Low

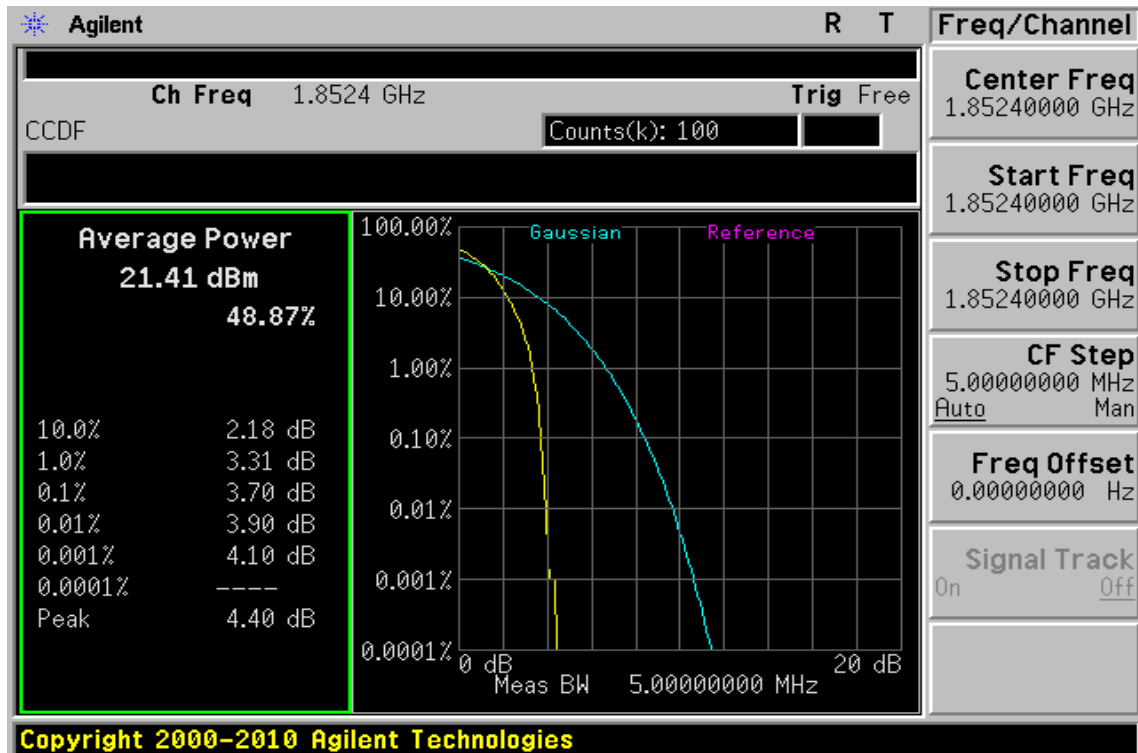
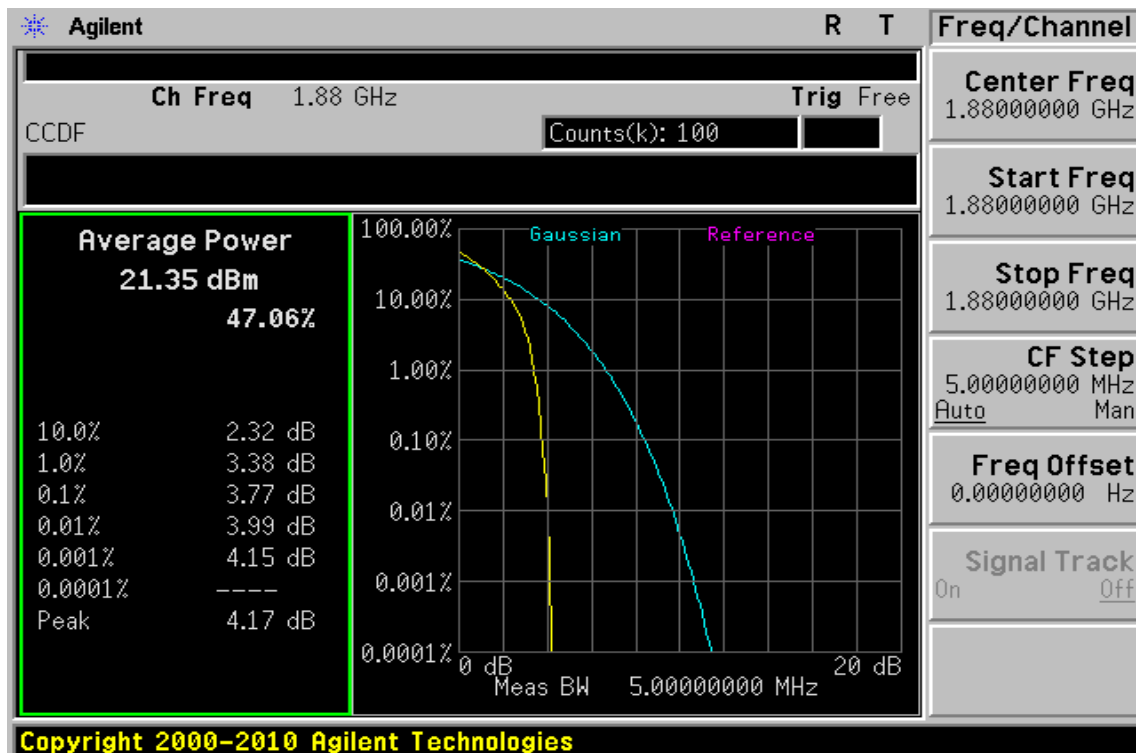


Figure 13-32: HSUPA Band II Channel Mid



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Figure 13-33: HSUPA Band II Channel High

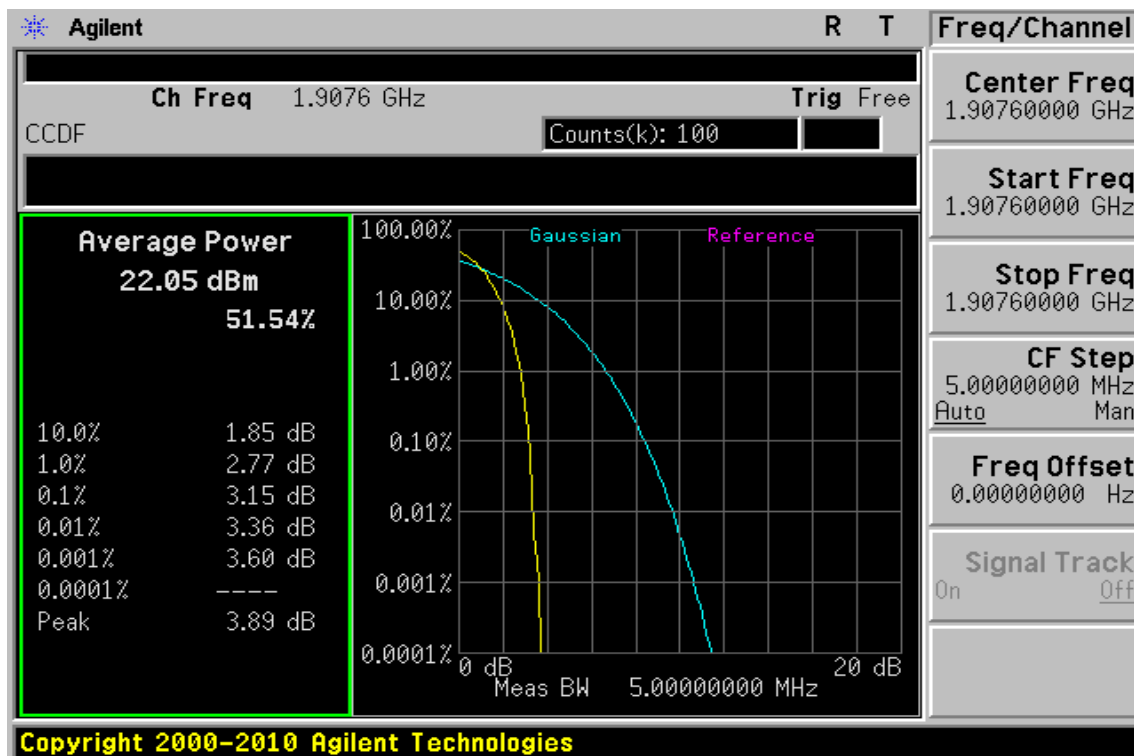
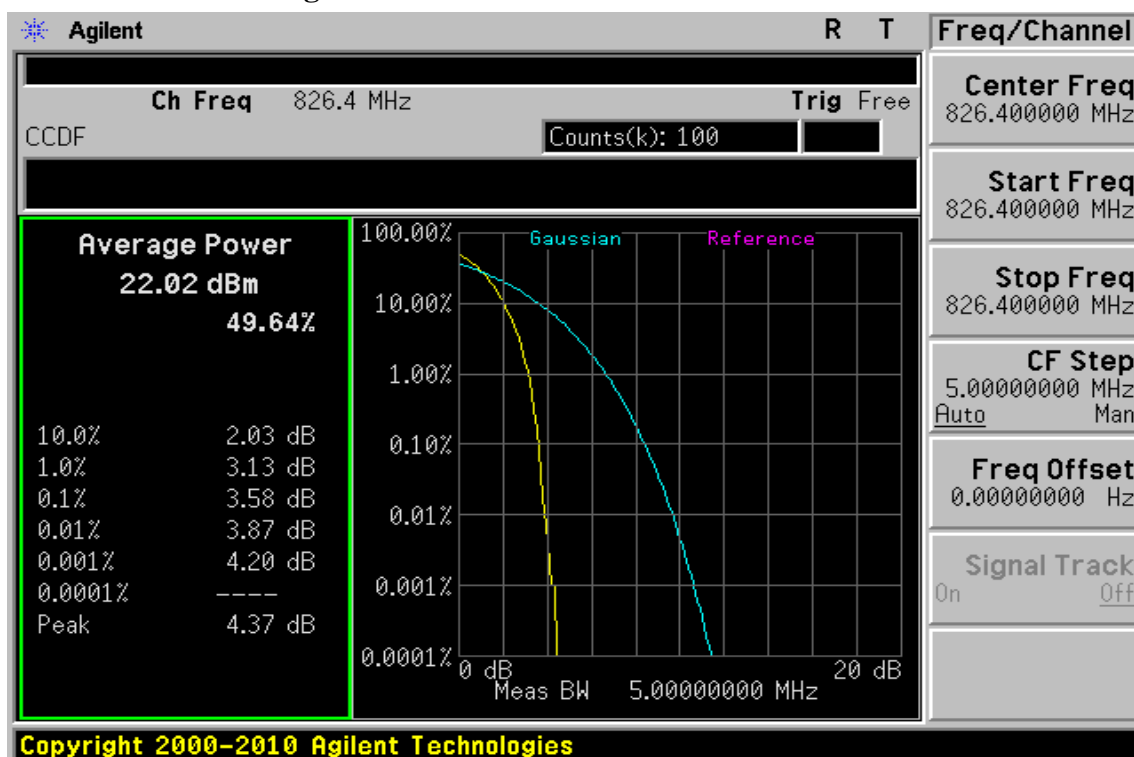


Figure 13-34: HSUPA Band V Channel Low



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Figure 13-35: HSUPA Band V Channel Mid

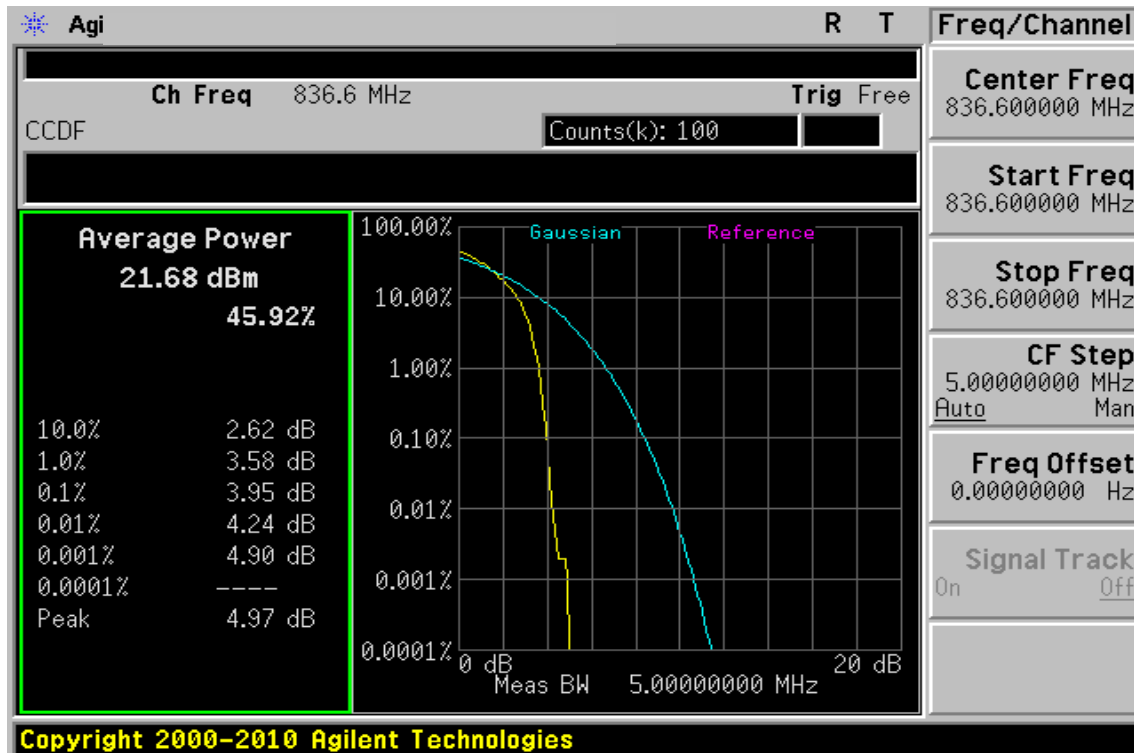
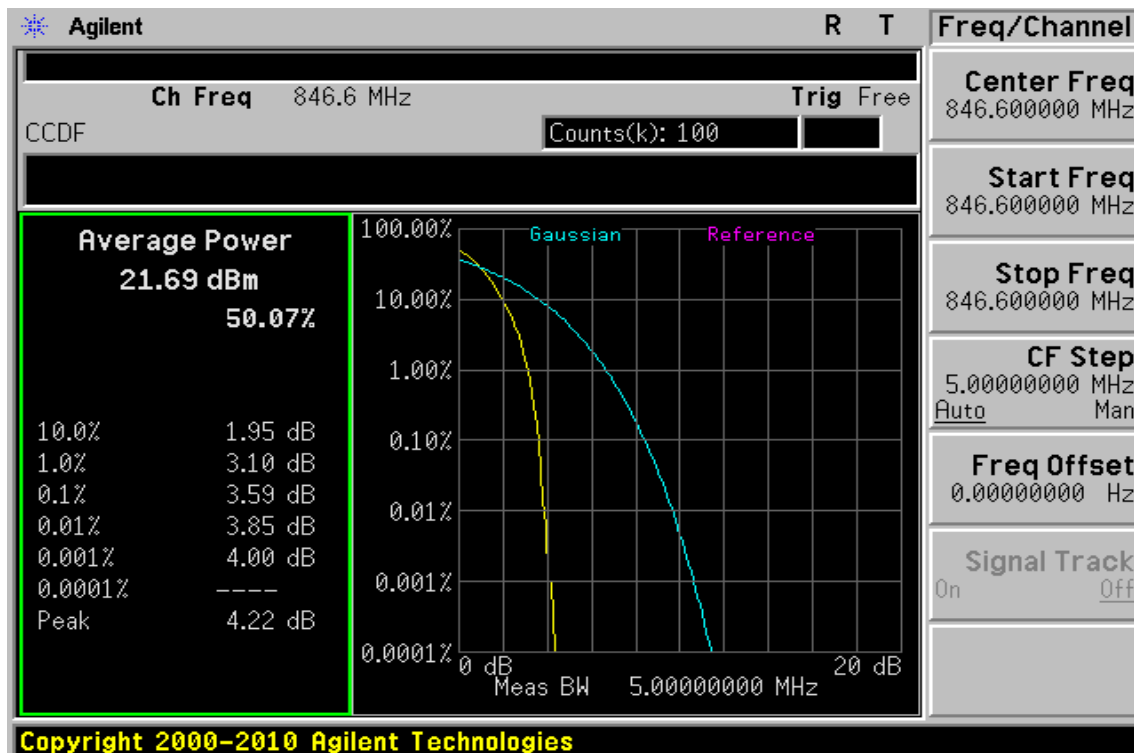


Figure 13-36: HSUPA Band V Channel High



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Figure 13-37: 1.4MHz BW LTE-Band 2(16QAM Number: 6 Offset: 0) Channel Low

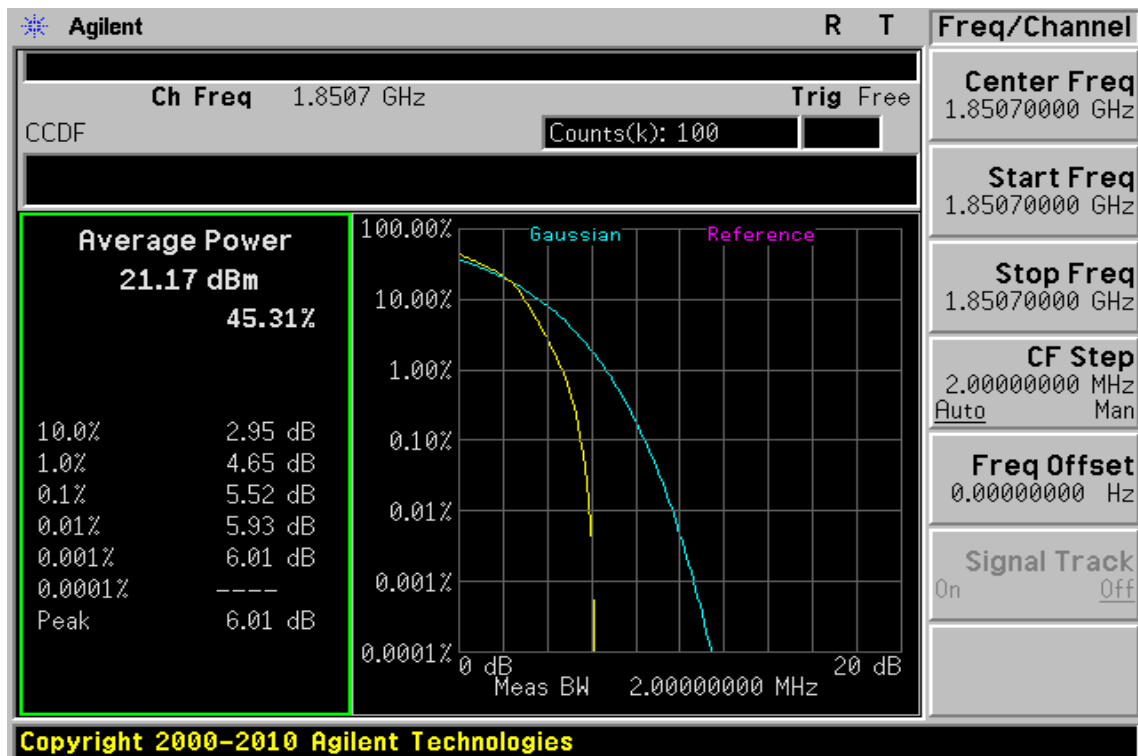
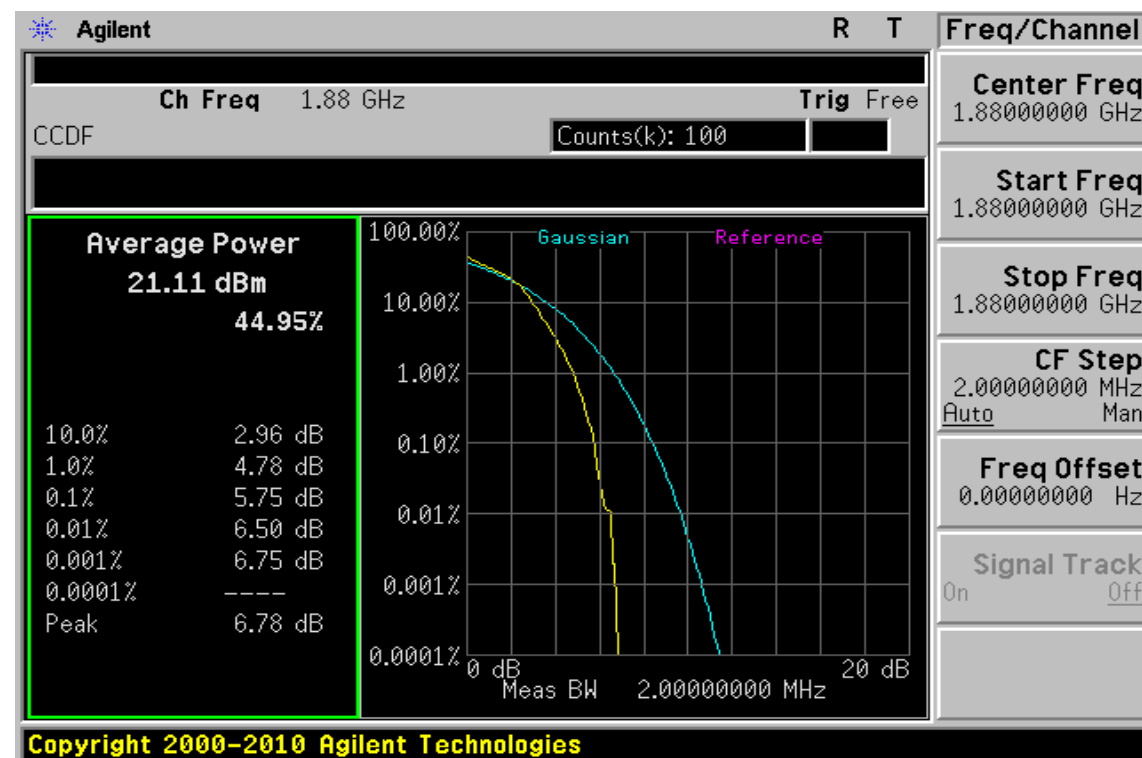


Figure 13-38: 1.4MHz BW LTE-Band 2(16QAM Number: 6 Offset: 0) Channel Mid



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Figure 13-39: 1.4MHz BW LTE-Band 2(16QAM Number: 6 Offset: 0) Channel High

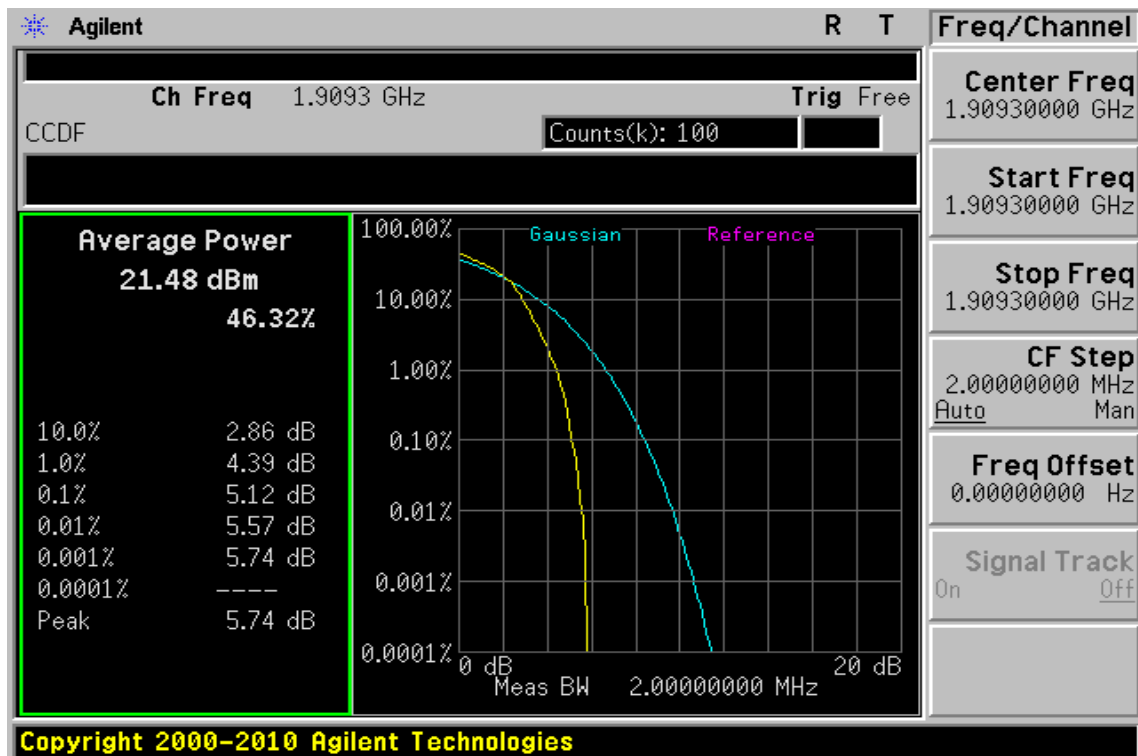
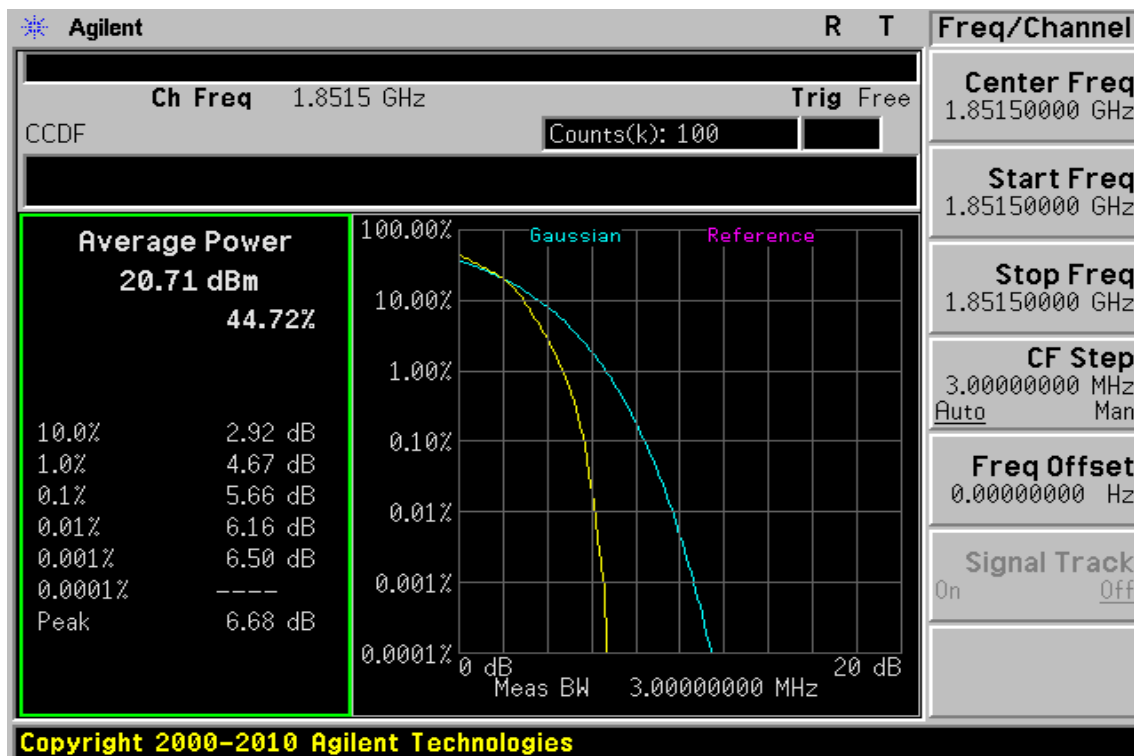


Figure 13-40: 3MHz BW LTE-Band 2(16QAM Number: 15 Offset: 0) Channel Low



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Figure 13-41: 3MHz BW LTE-Band 2(16QAM Number: 15 Offset: 0) Channel Mid

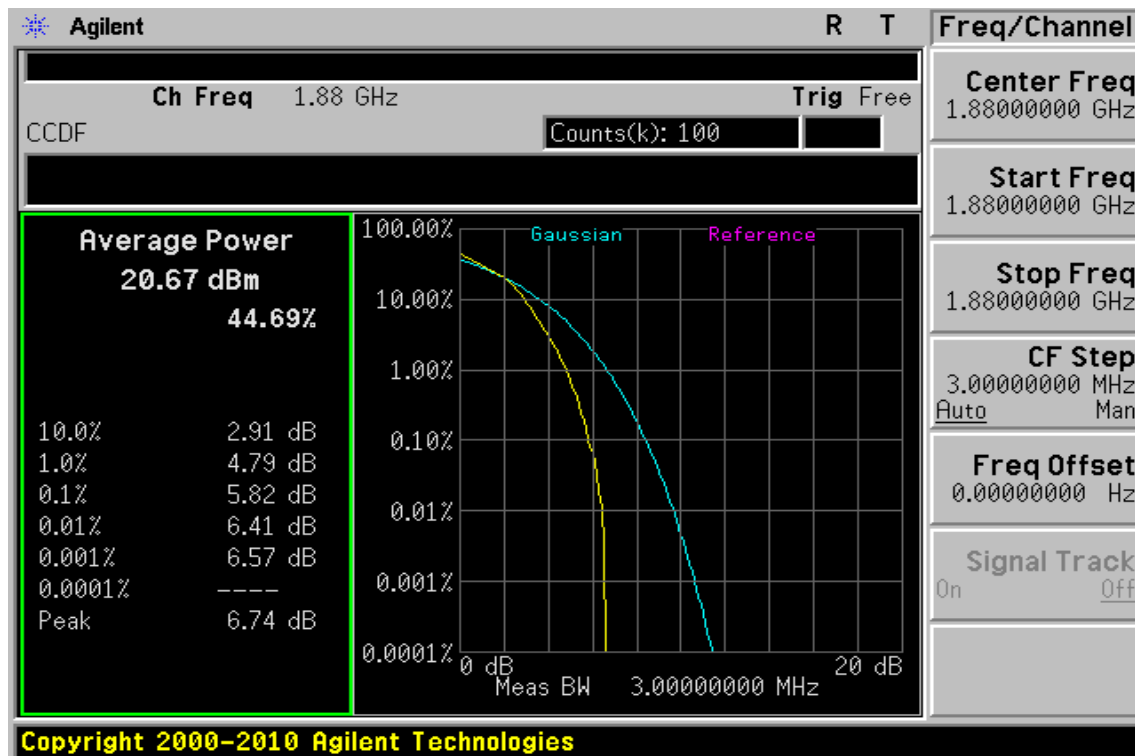
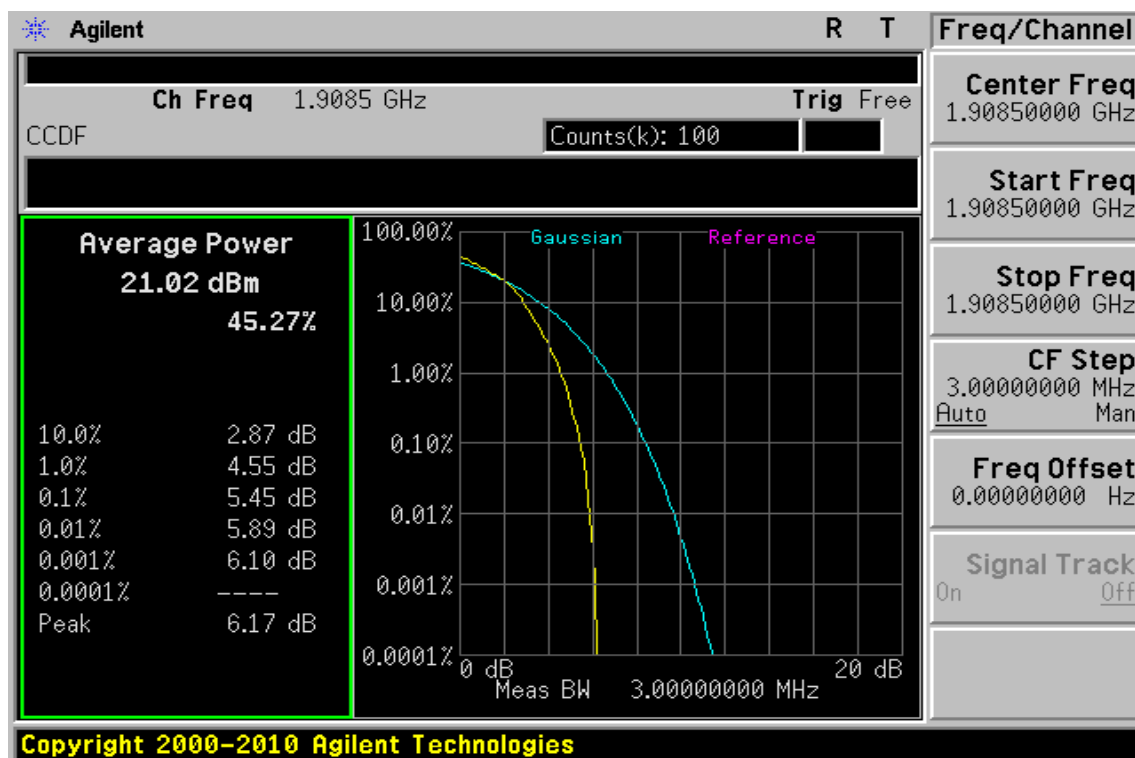


Figure 13-42: 3MHz BW LTE-Band 2(16QAM Number: 15 Offset: 0) Channel High



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Figure 13-43: 5MHz BW LTE-Band 2(16QAM Number: 25 Offset: 0) Channel Low

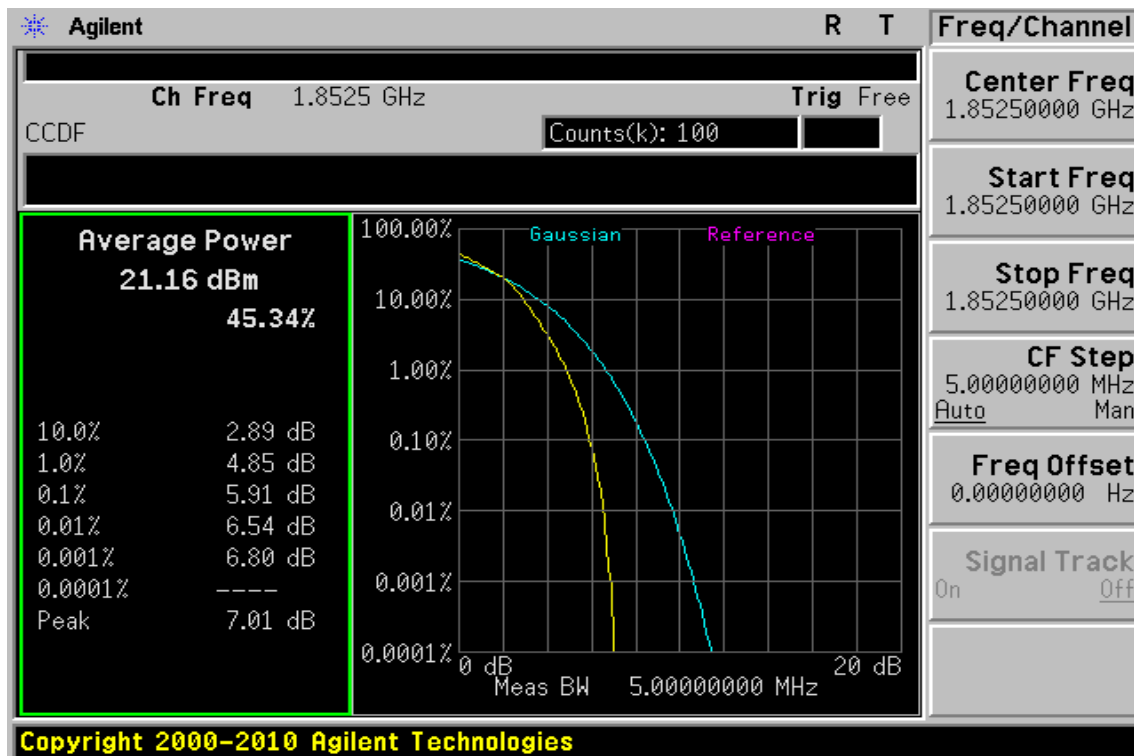
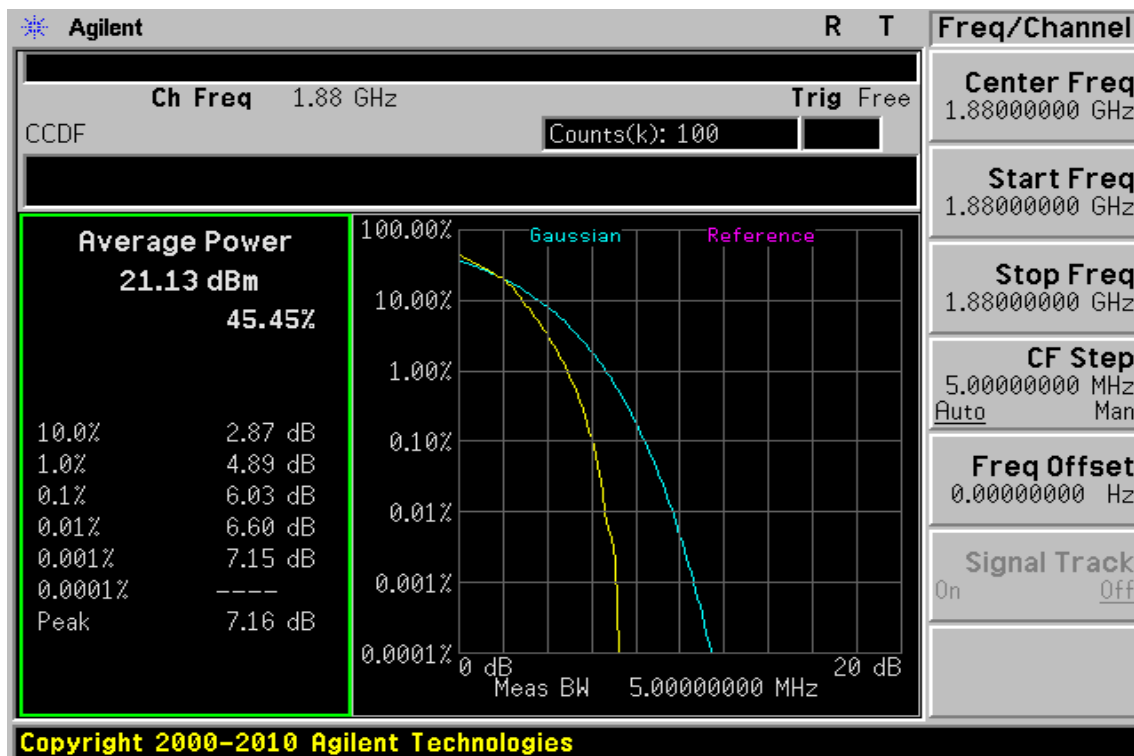


Figure 13-44: 5MHz BW LTE-Band 2(16QAM Number: 25 Offset: 0) Channel Mid



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Figure 13-45: 5MHz BW LTE-Band 2(16QAM Number: 25 Offset: 0) Channel High

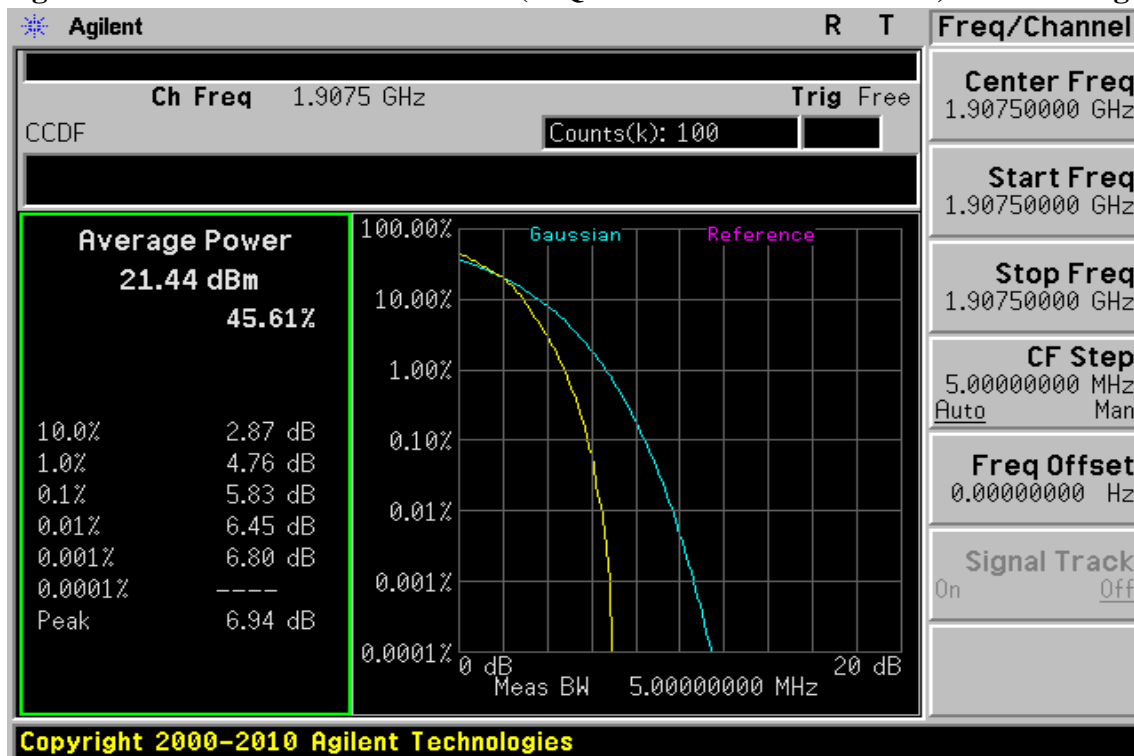
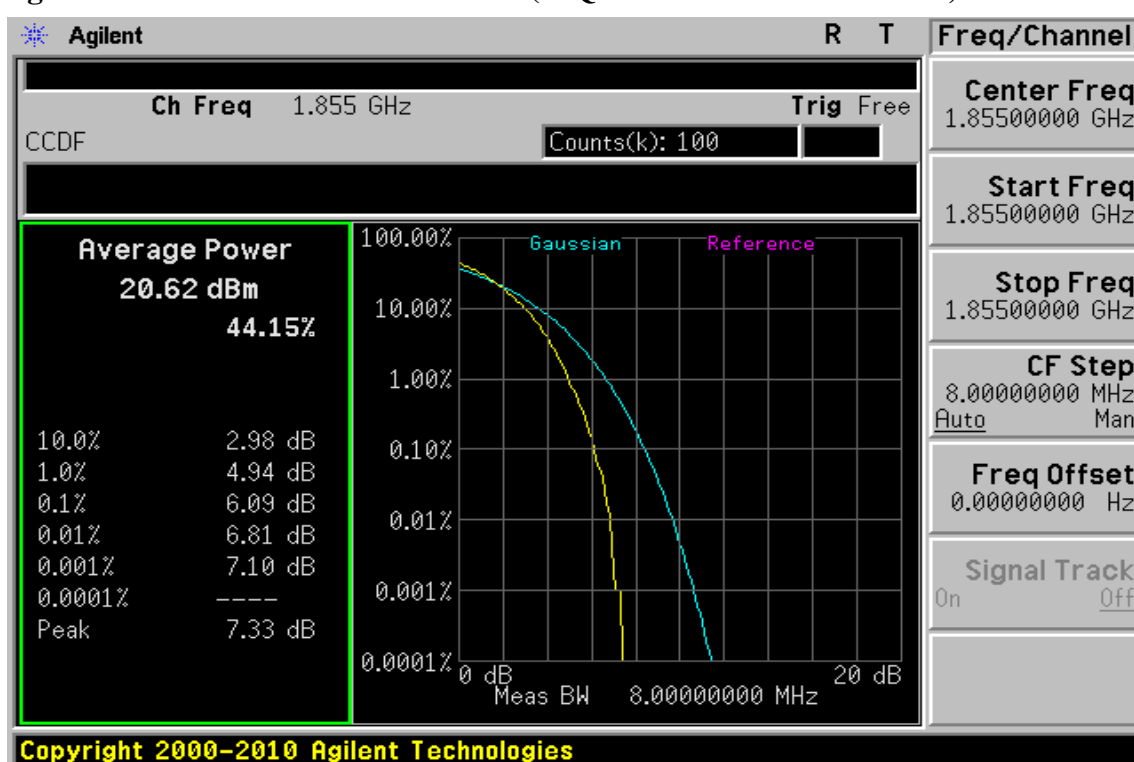


Figure 13-46: 10MHz BW LTE-Band 2(16QAM Number: 50 Offset: 0) Channel Low



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Figure 13-47: 10MHz BW LTE-Band 2(16QAM Number: 50 Offset: 0) Channel Mid

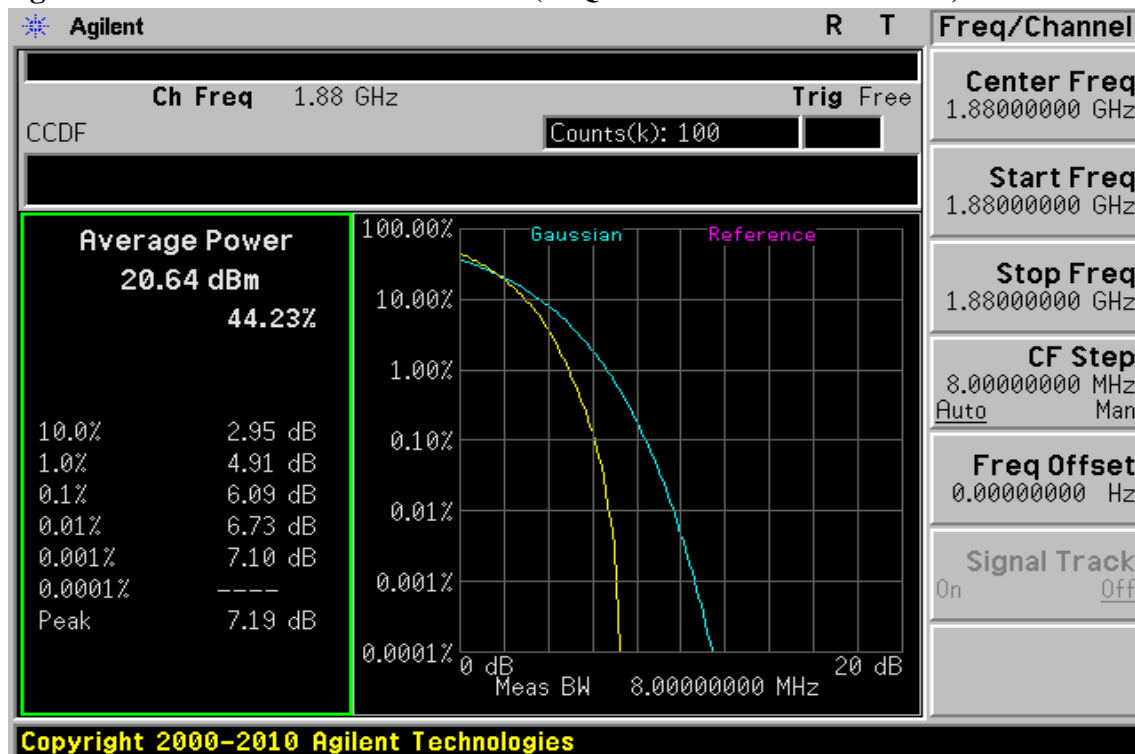
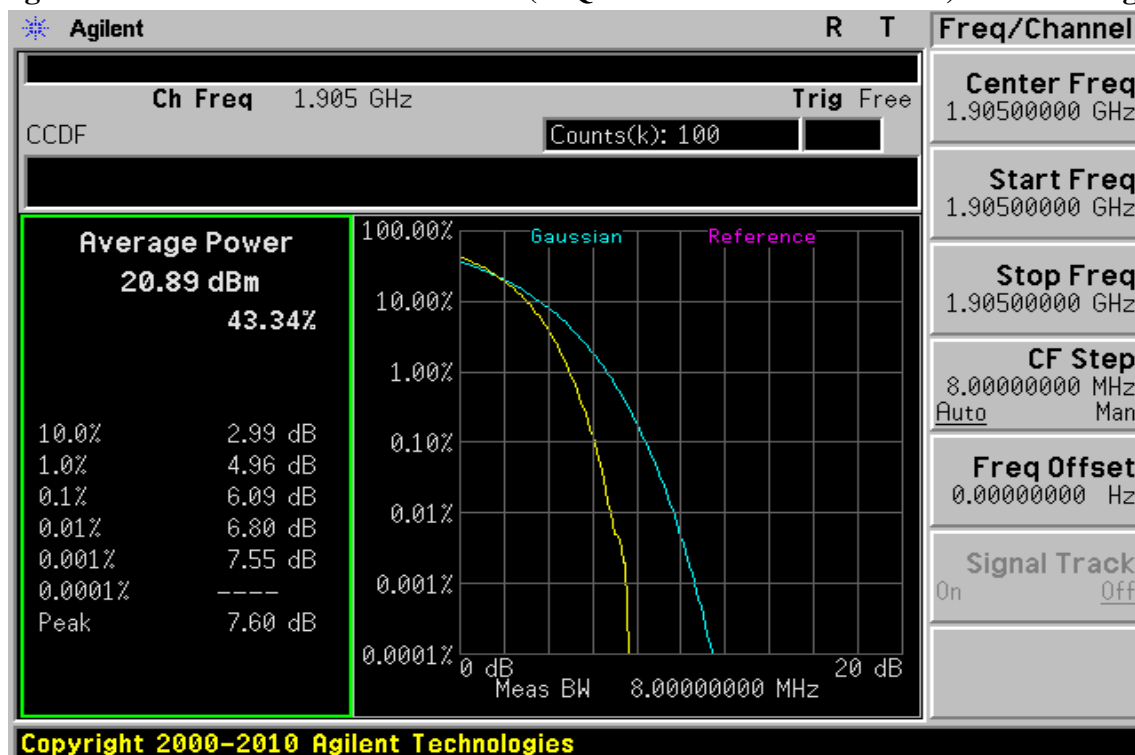


Figure 13-48: 10MHz BW LTE-Band 2(16QAM Number: 50 Offset: 0) Channel High



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Figure 13-49: 15MHz BW LTE-Band 2(16QAM Number: 75 Offset: 0) Channel Low

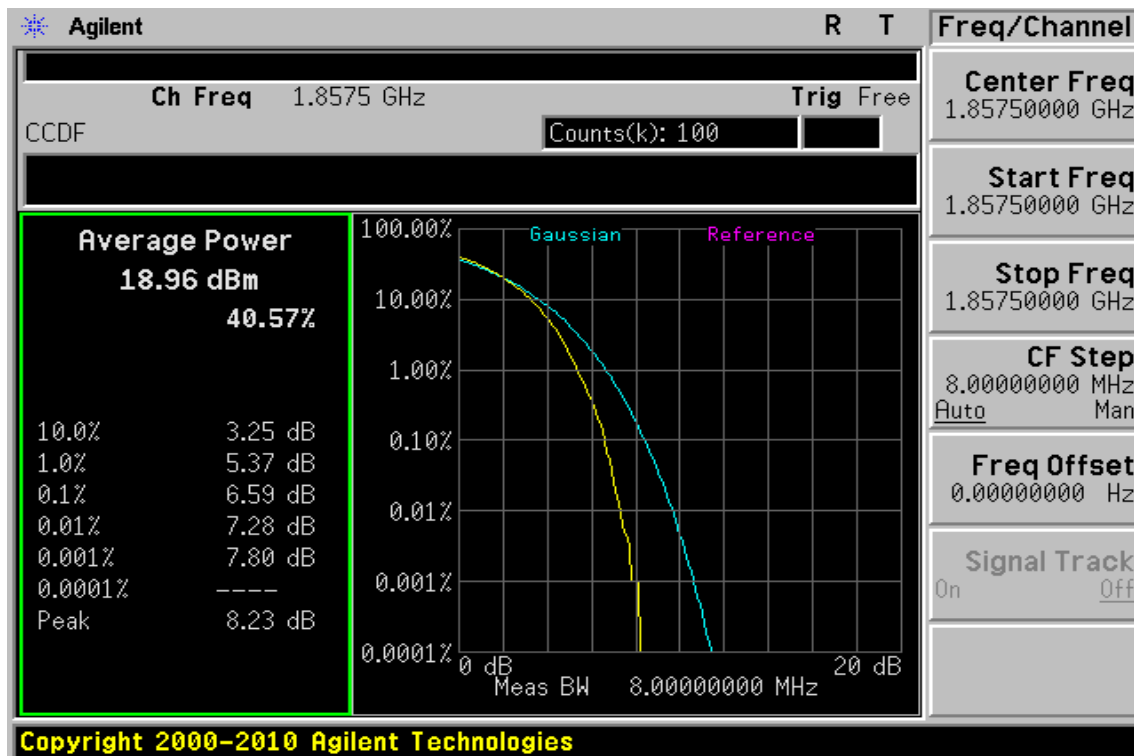
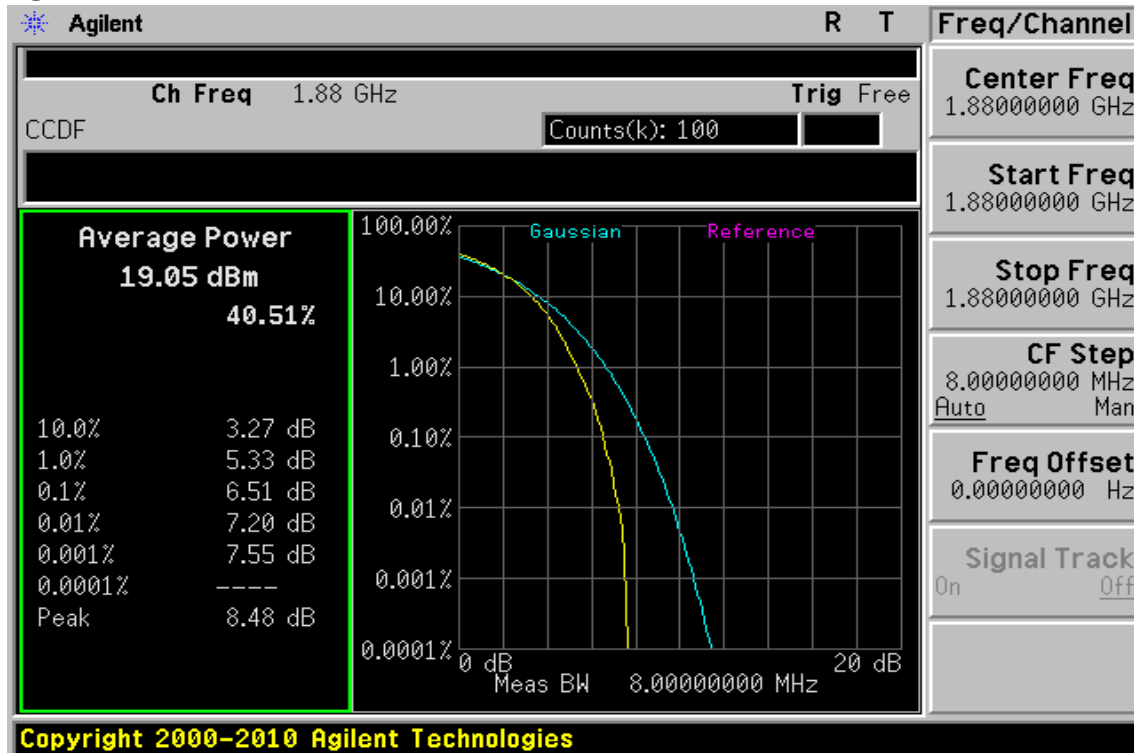


Figure 13-50: 15MHz BW LTE-Band 2(16QAM Number: 75 Offset: 0) Channel Mid



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Figure 13-51: 15MHz BW LTE-Band 2(16QAM Number: 75 Offset: 0) Channel High

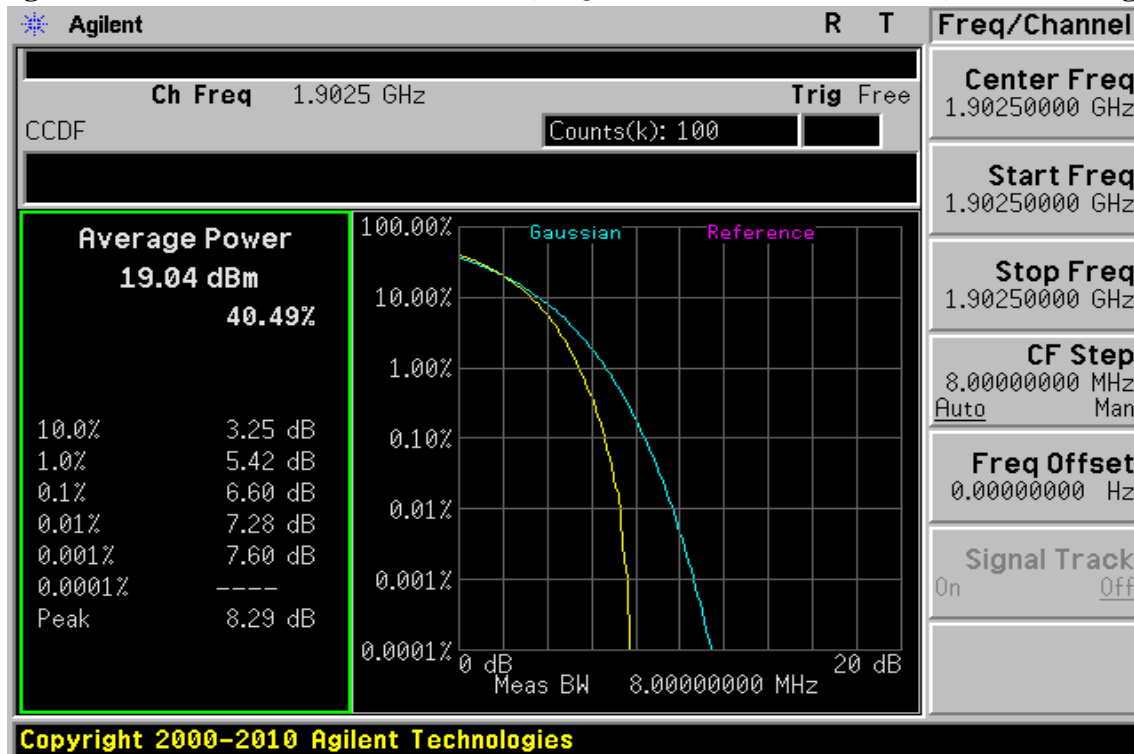
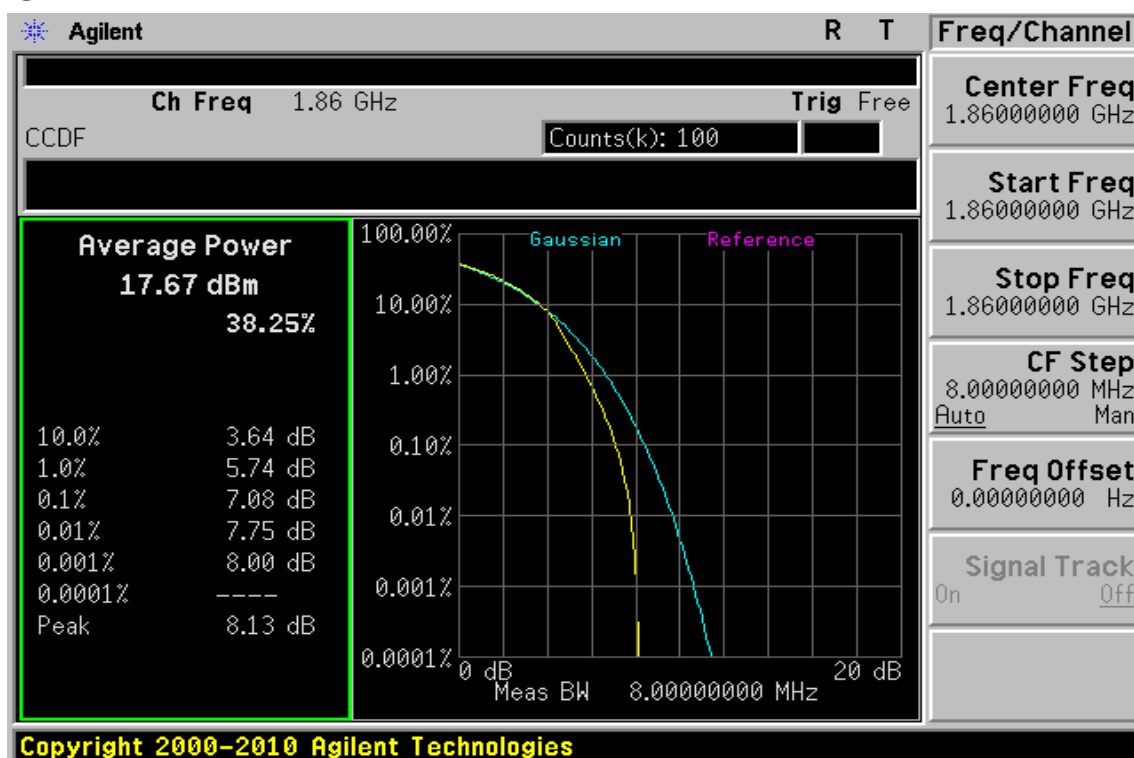


Figure 13-52: 20MHz BW LTE-Band 2(16QAM Number: 100 Offset: 0) Channel Low



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Figure 13-53: 20MHz BW LTE-Band 2(16QAM Number: 100 Offset: 0) Channel Mid

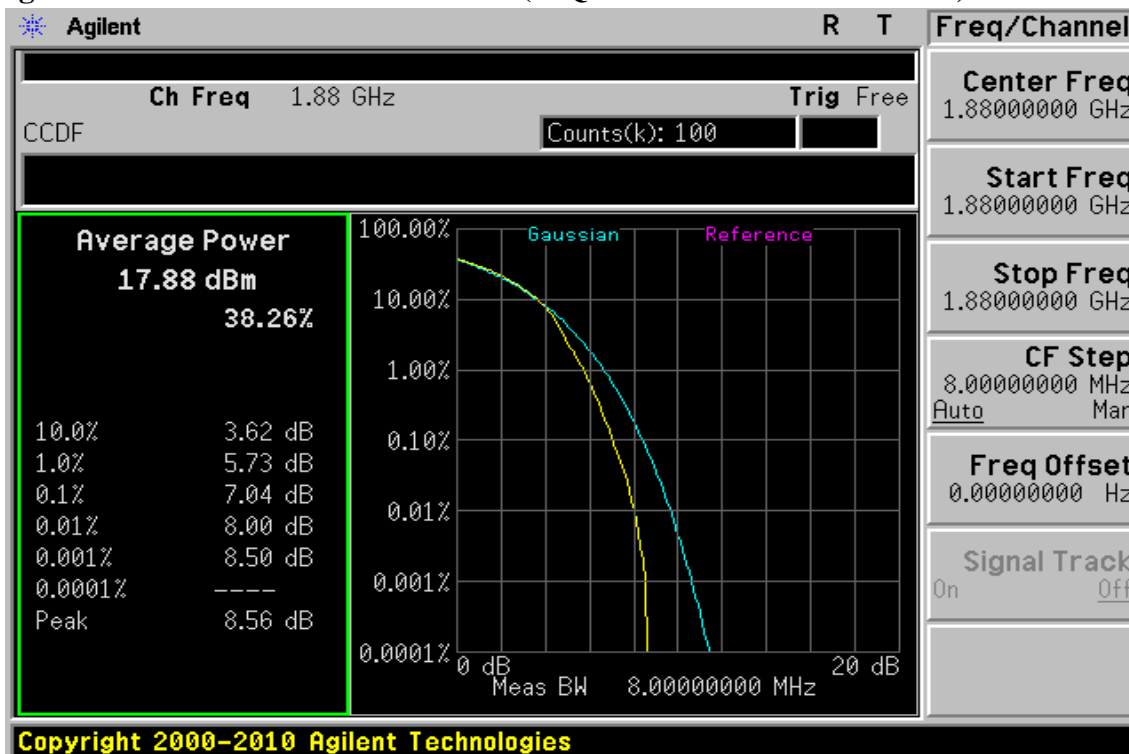


Figure 13-54: 20MHz BW LTE-Band 2(16QAM Number: 100 Offset: 0) Channel High



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Figure 13-55: 1.4MHz BW LTE-Band 5(16QAM Number: 6 Offset: 0) Channel Low

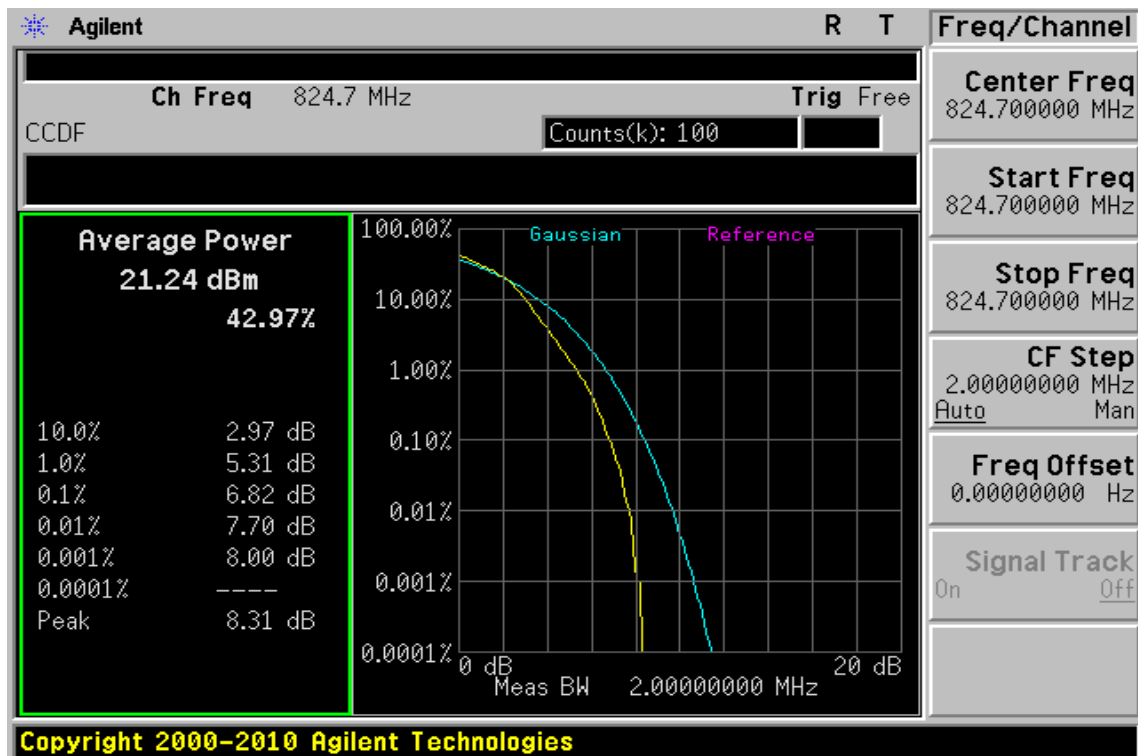
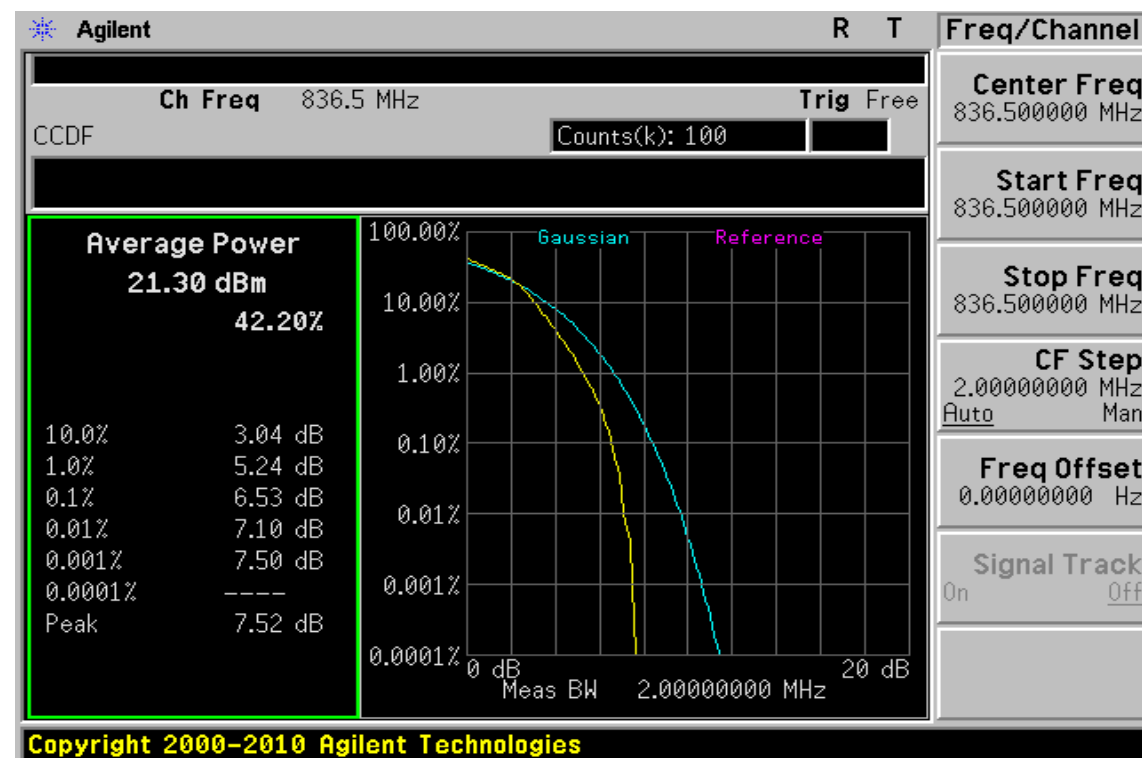


Figure 13-56: 1.4MHz BW LTE-Band 5(16QAM Number: 6 Offset: 0) Channel Mid



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Figure 13-57: 1.4MHz BW LTE-Band 5(16QAM Number: 6 Offset: 0) Channel High

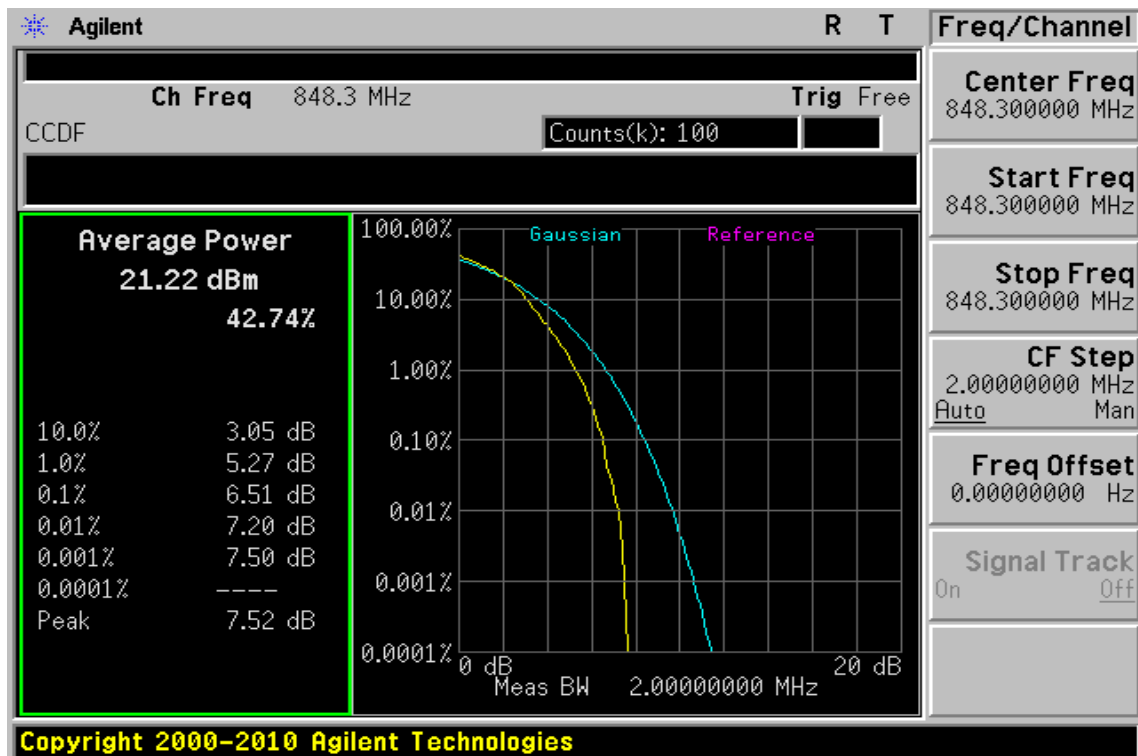
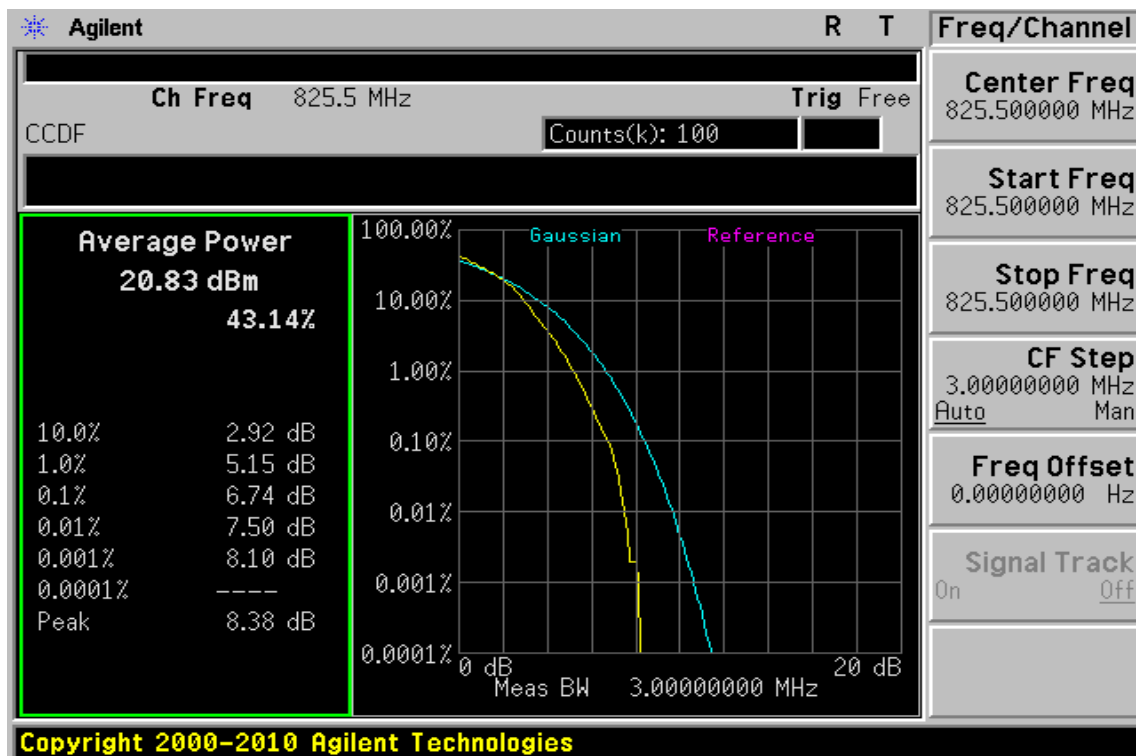


Figure 13-58: 3MHz BW LTE-Band 5(16QAM Number: 15 Offset: 0) Channel Low



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Figure 13-59: 3MHz BW LTE-Band 5(16QAM Number: 15 Offset: 0) Channel Mid

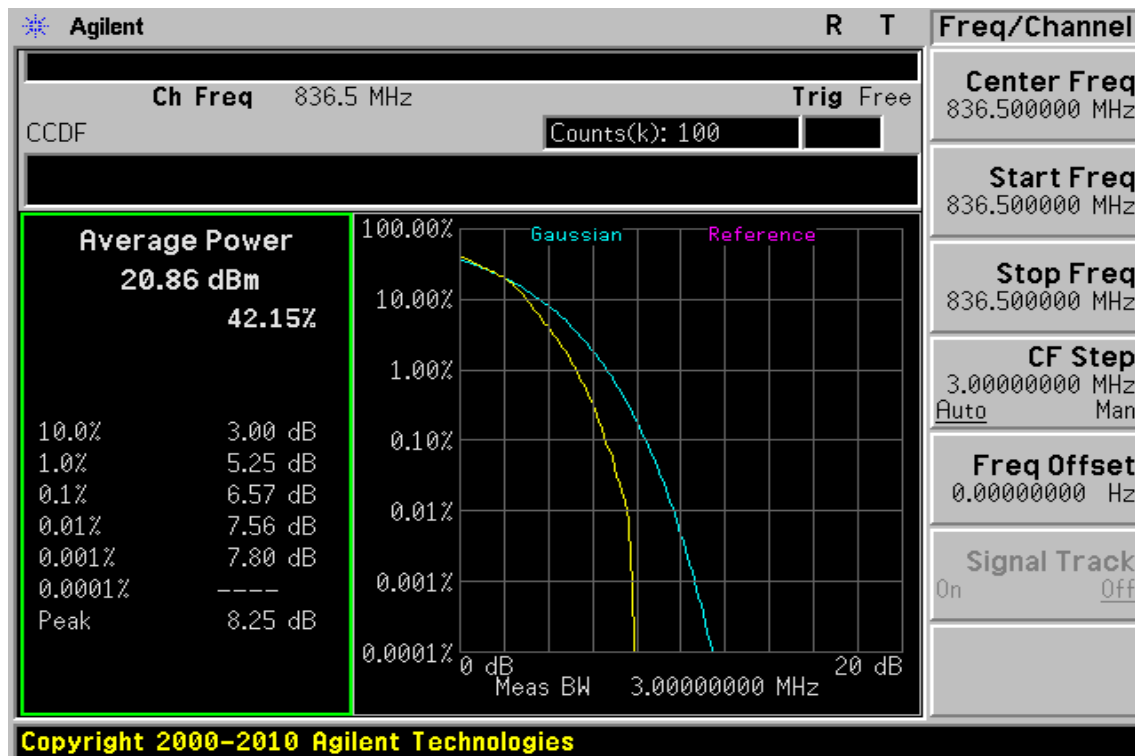
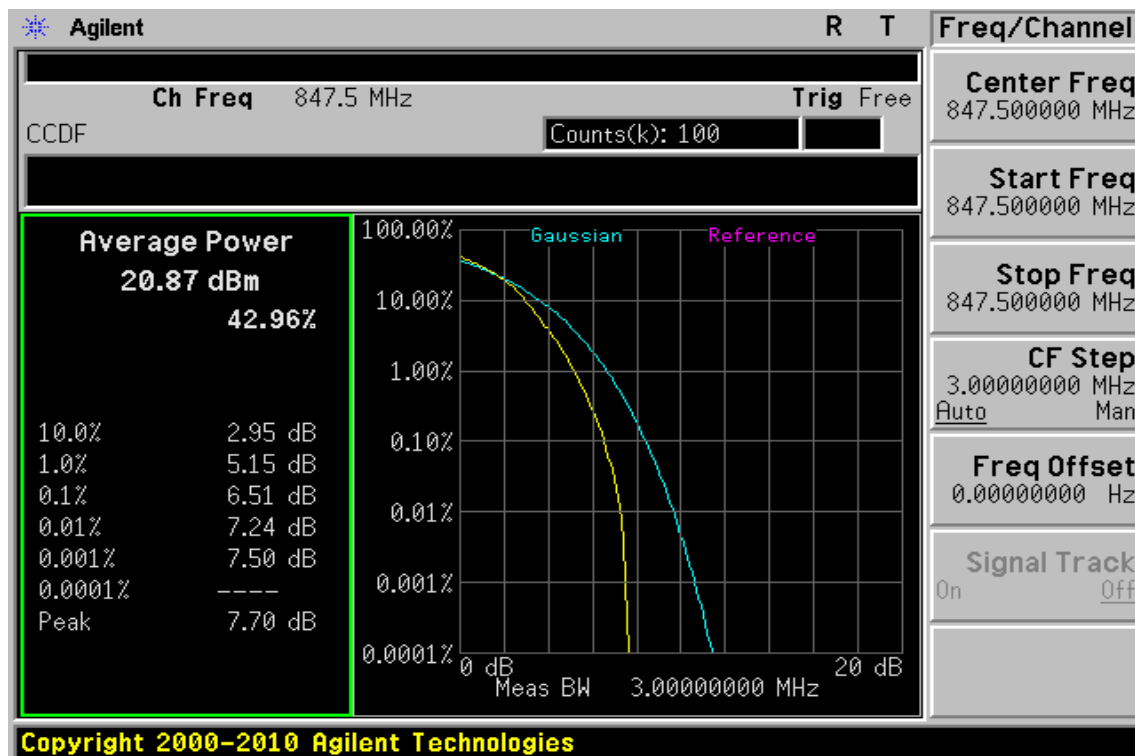


Figure 13-60: 3MHz BW LTE-Band 5(16QAM Number: 15 Offset: 0) Channel High



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Figure 13-61: 5MHz BW LTE-Band 5(16QAM Number: 25 Offset: 0) Channel Low

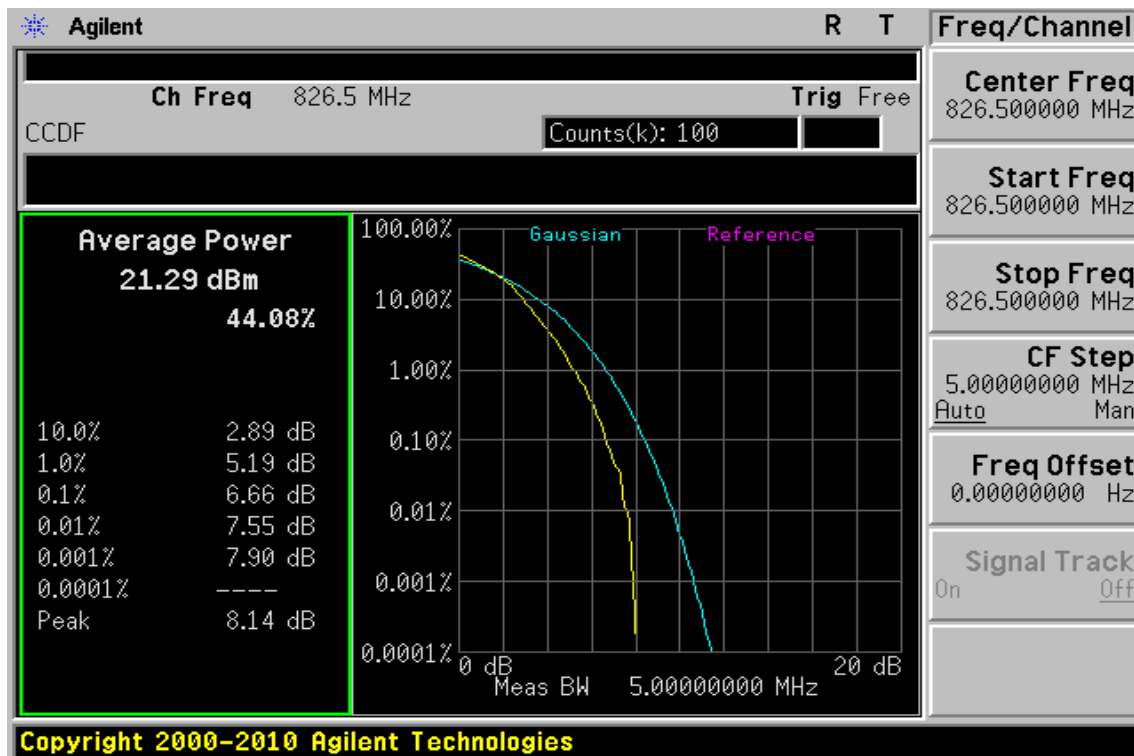
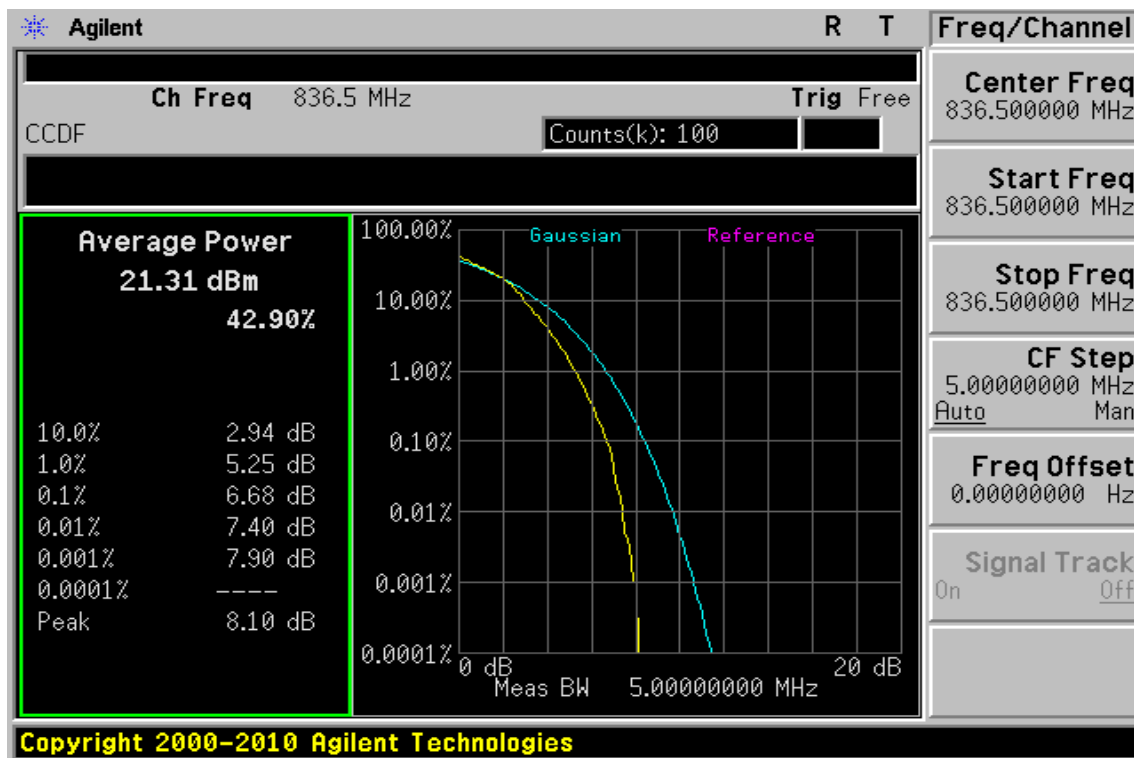


Figure 13-62: 5MHz BW LTE-Band 5(16QAM Number: 25 Offset: 0) Channel Mid



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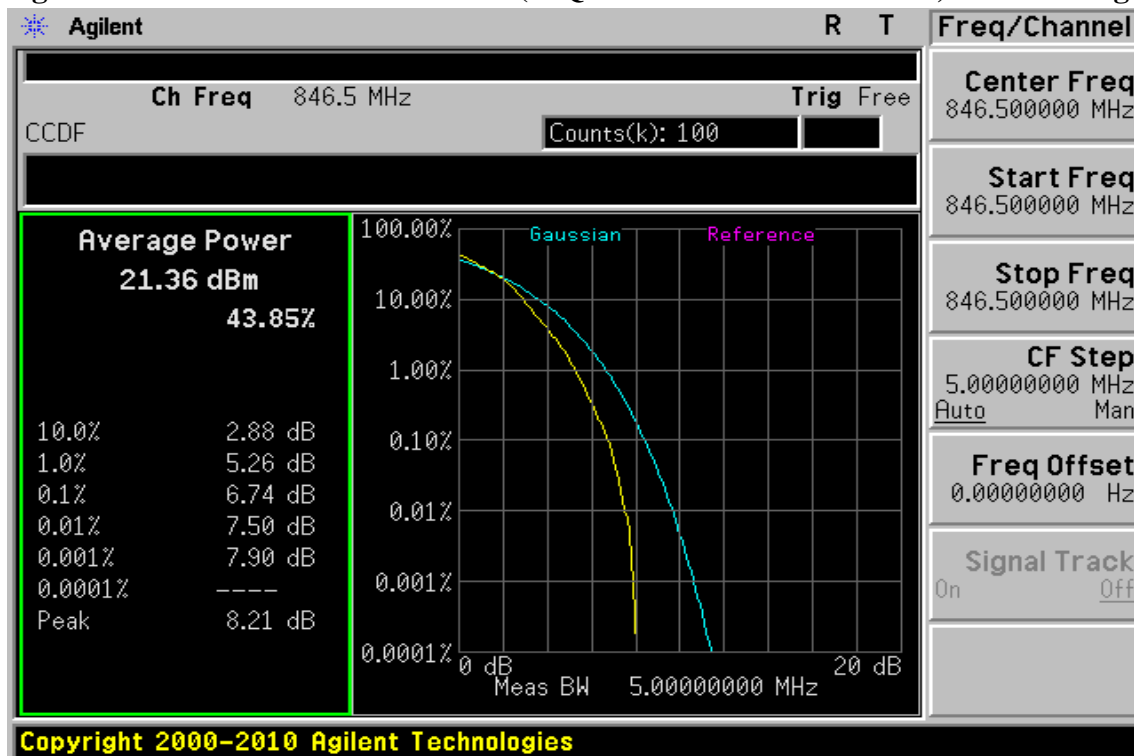
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Figure 13-63: 5MHz BW LTE-Band 5(16QAM Number: 25 Offset: 0) Channel High

Figure 13-64: 10MHz BW LTE-Band 5(16QAM Number: 50 Offset: 0) Channel Low


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Figure 13-65: 10MHz BW LTE-Band 5(16QAM Number: 50 Offset: 0) Channel Mid

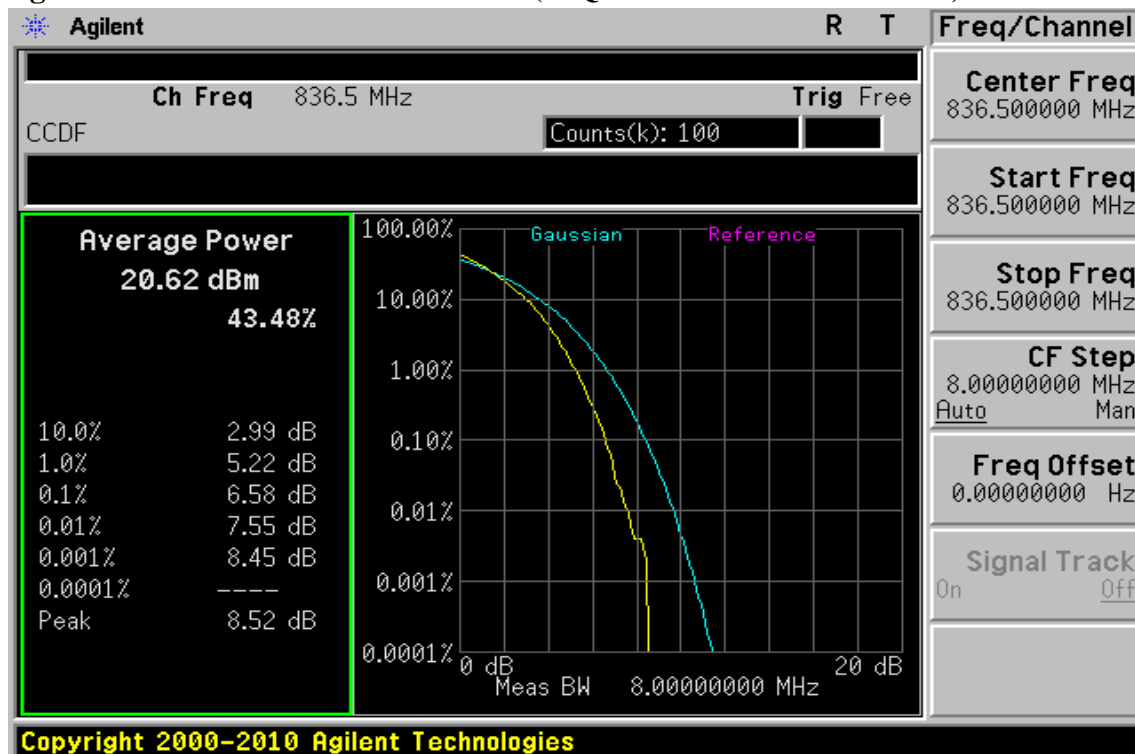
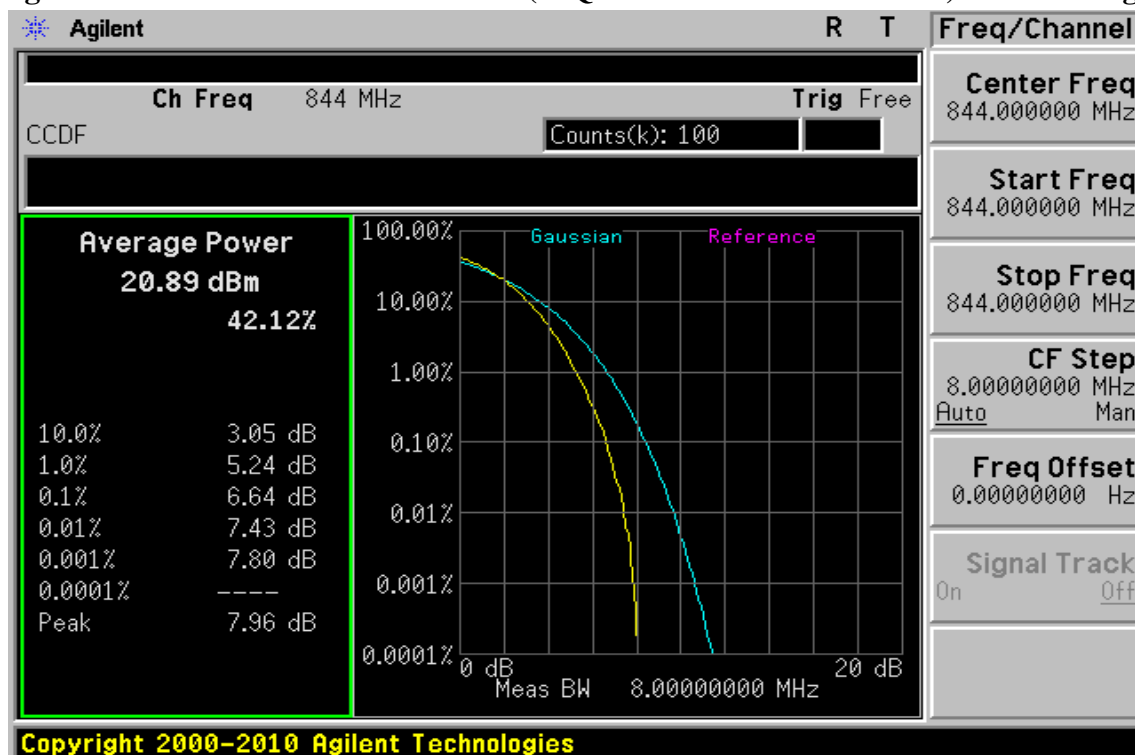


Figure 13-66: 10MHz BW LTE-Band 5(16QAM Number: 50 Offset: 0) Channel High



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Figure 13-67: 5MHz BW LTE-Band 7(16QAM Number: 25 Offset: 0) Channel Low

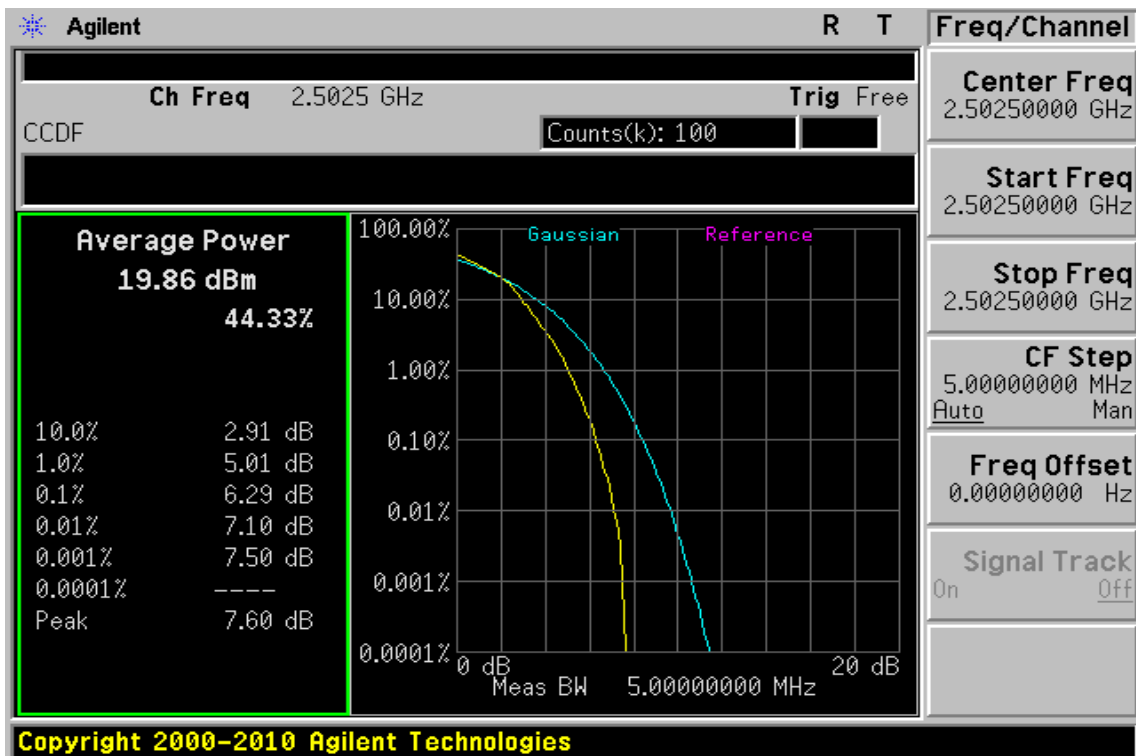
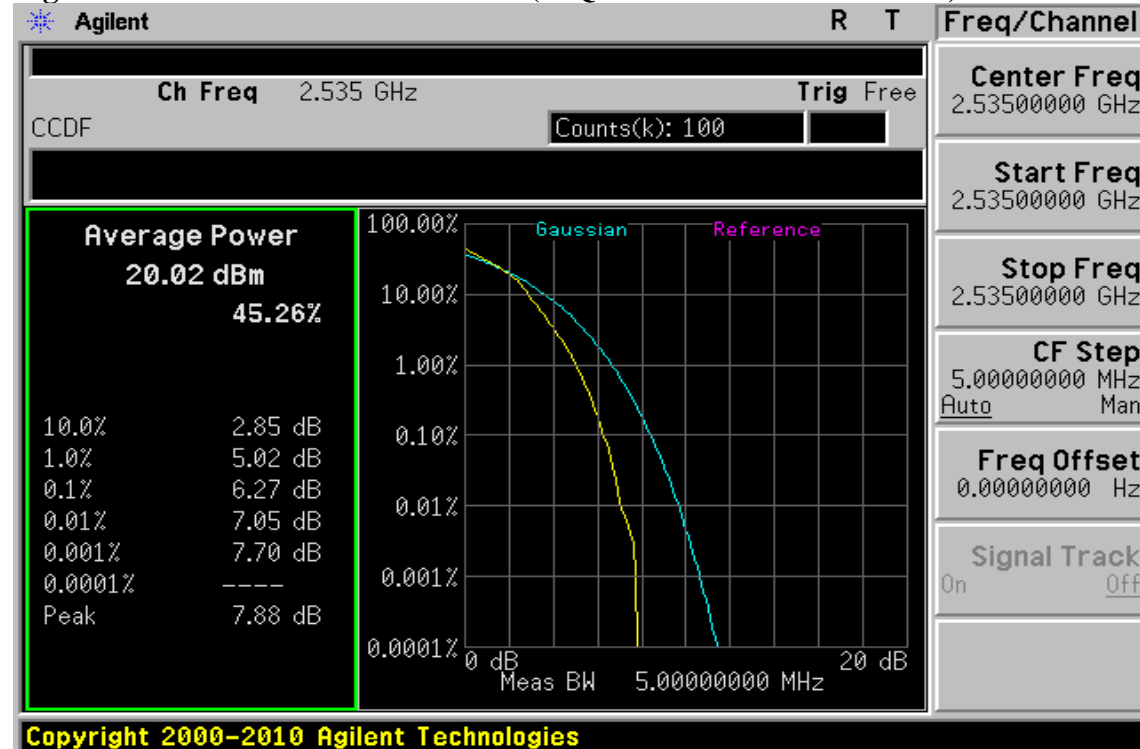


Figure 13-68: 5MHz BW LTE-Band 7(16QAM Number: 25 Offset: 0) Channel Mid



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Figure 13-69: 5MHz BW LTE-Band 7(16QAM Number: 25 Offset: 0) Channel High

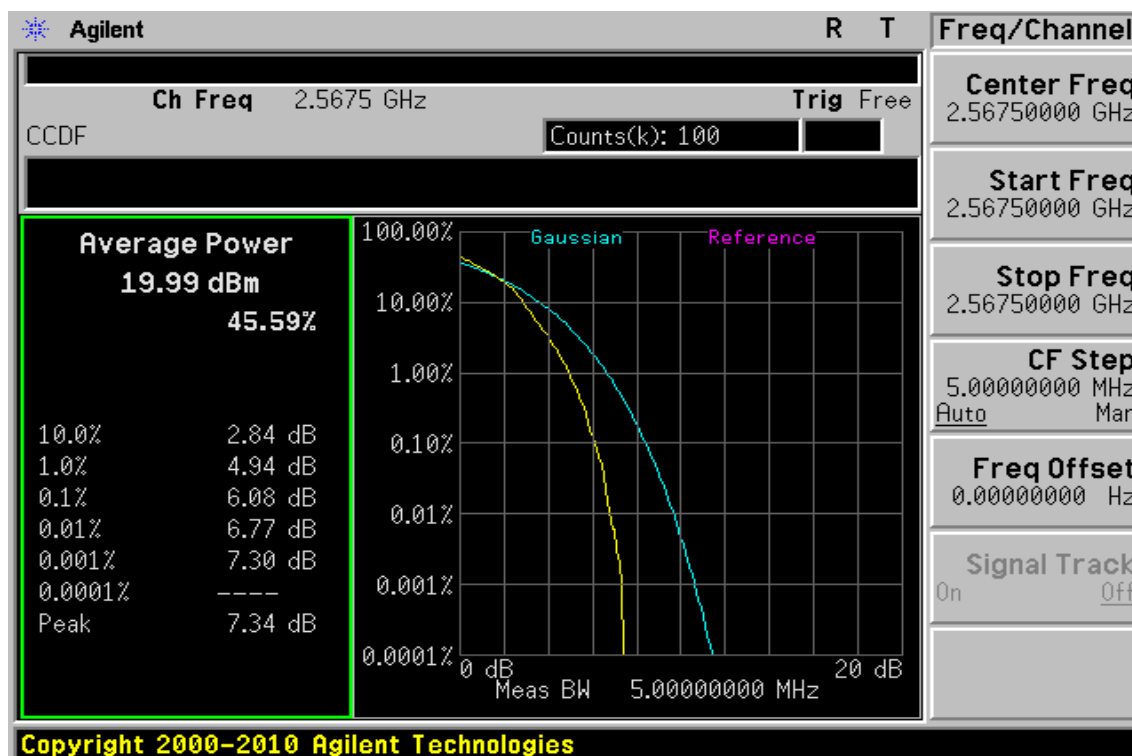
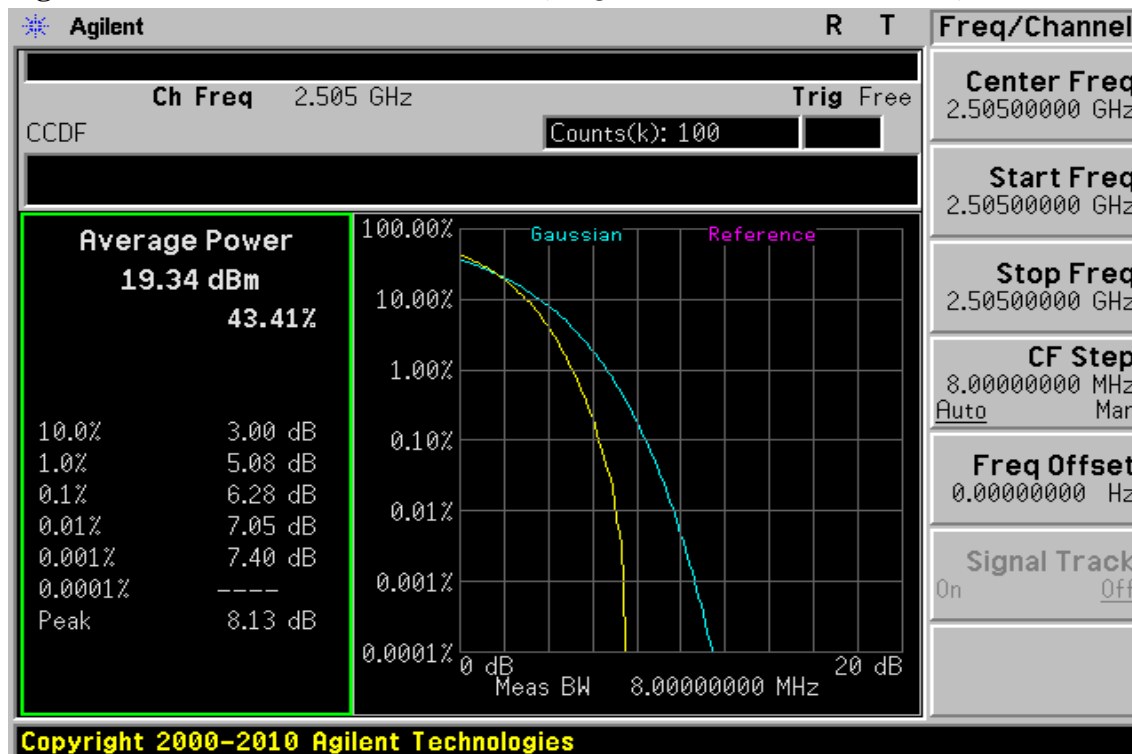


Figure 13-70: 10MHz BW LTE-Band 7(16QAM Number: 50 Offset: 0) Channel Low



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Figure 13-71: 10MHz BW LTE-Band 7(16QAM Number: 50 Offset: 0) Channel Mid

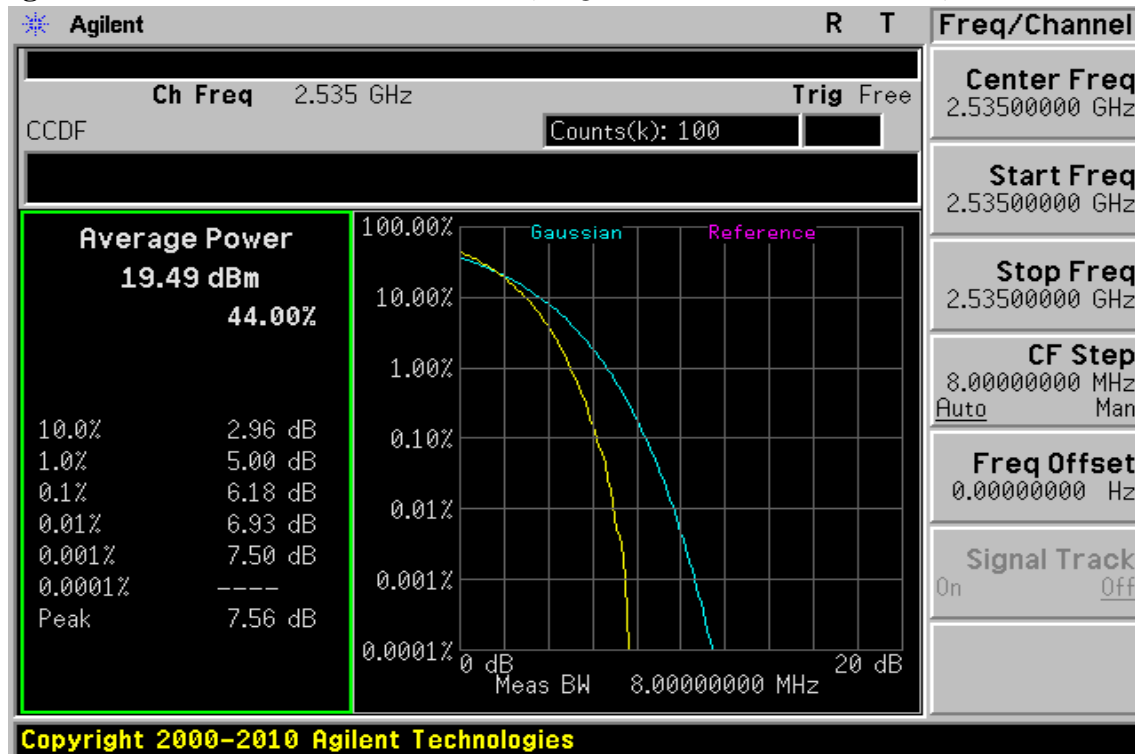
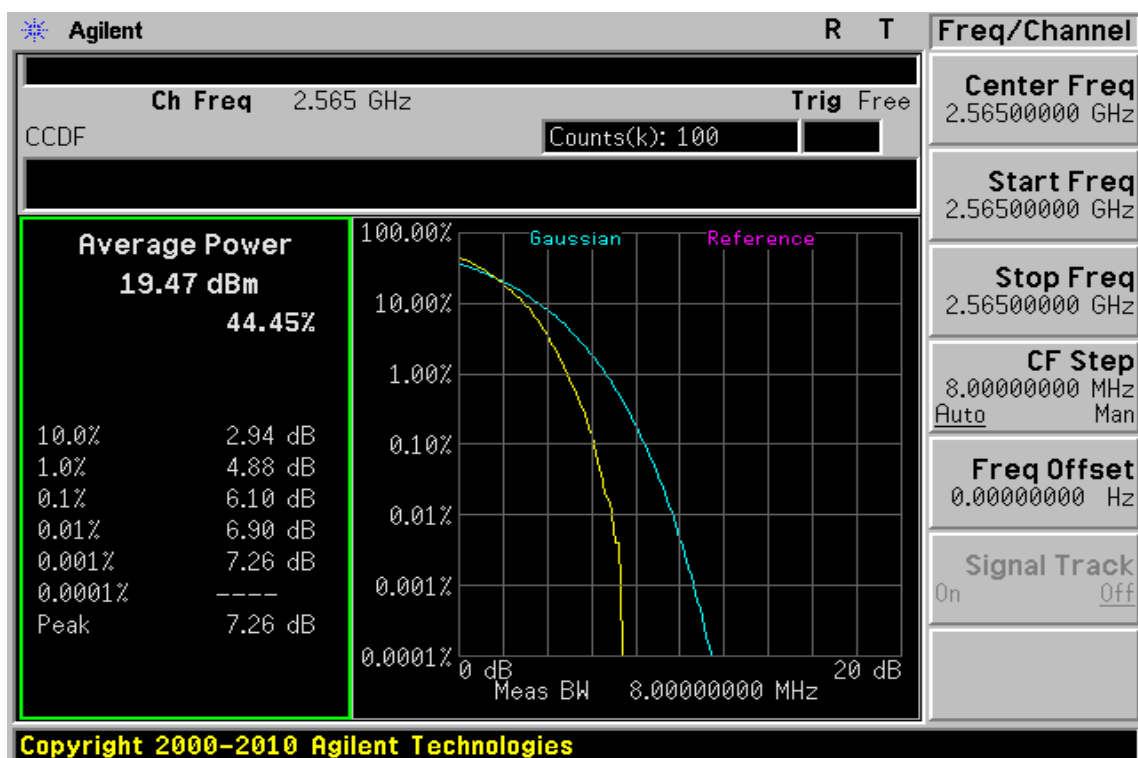


Figure 13-72: 10MHz BW LTE-Band 7(16QAM Number: 50 Offset: 0) Channel High



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Figure 13-73: 15MHz BW LTE-Band 7(16QAM Number: 75 Offset: 0) Channel Low

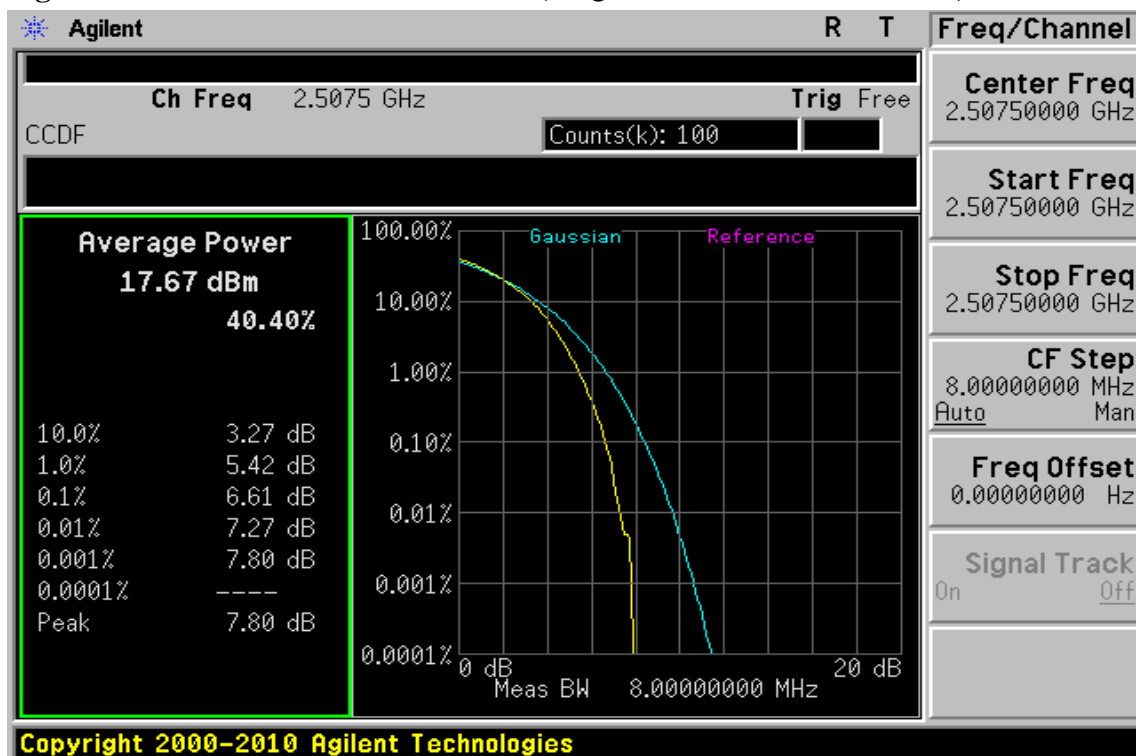


Figure 13-74: 15MHz BW LTE-Band 7(16QAM Number: 75 Offset: 0) Channel Mid



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Figure 13-75: 15MHz BW LTE-Band 7(16QAM Number: 75 Offset: 0) Channel High

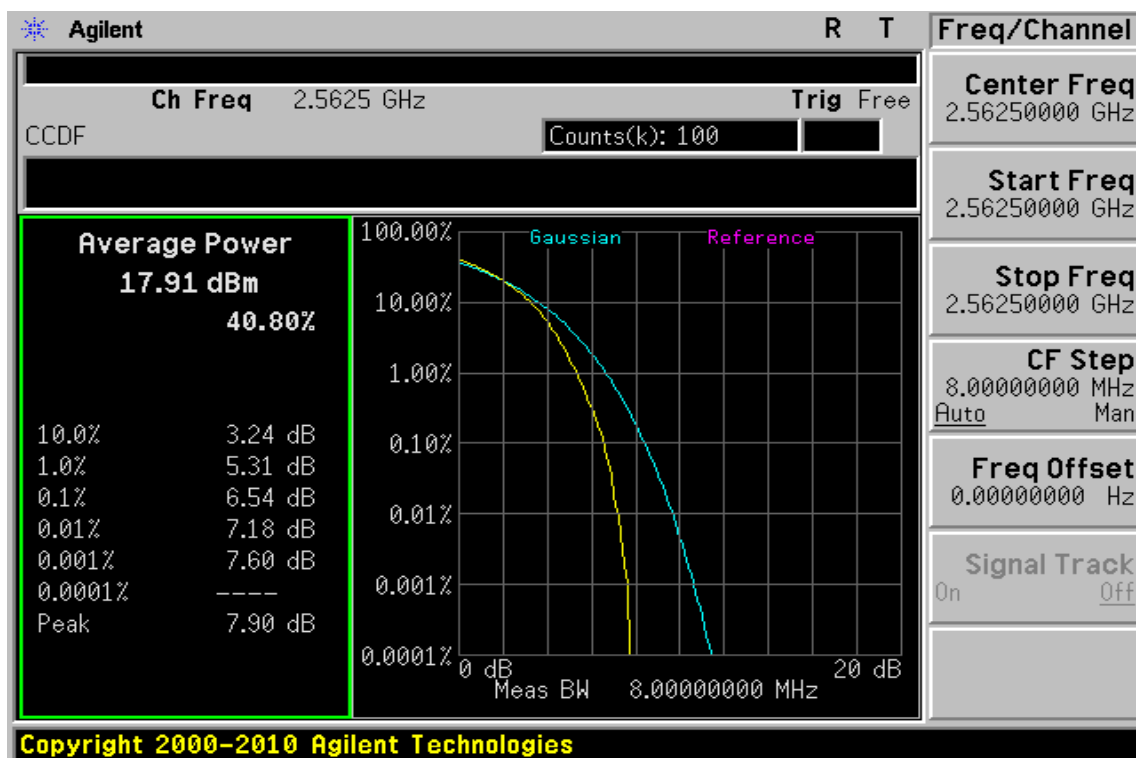
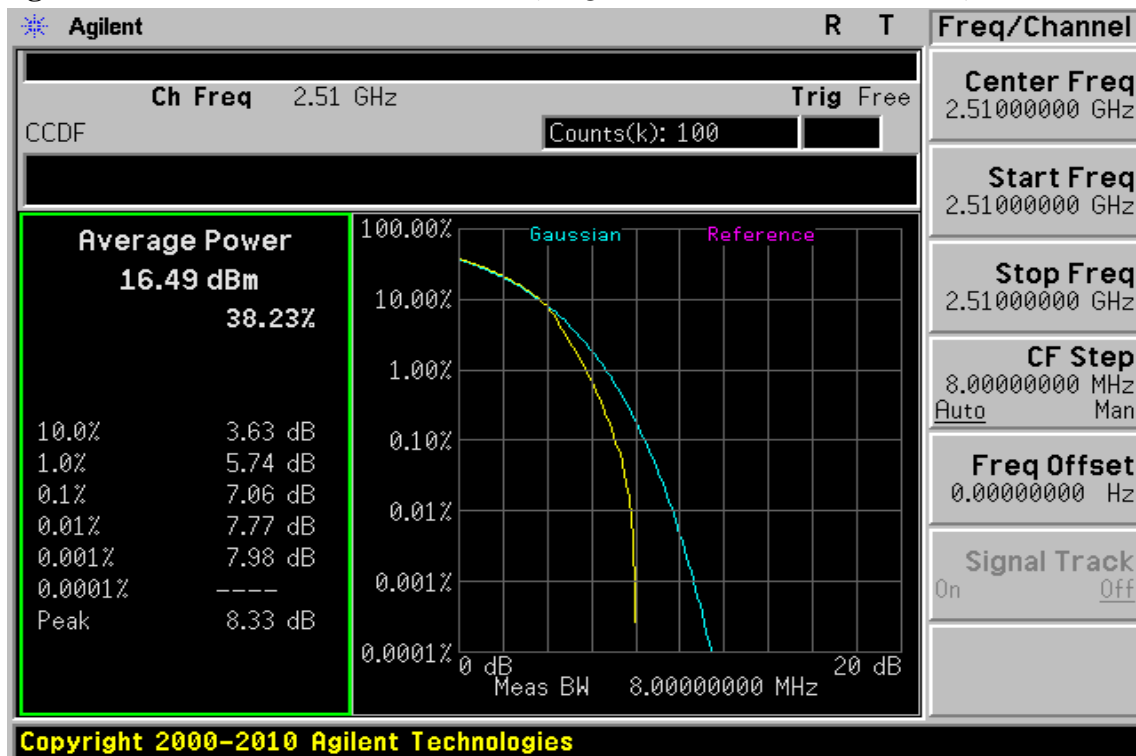


Figure 13-76: 20MHz BW LTE-Band 7(16QAM Number: 100 Offset: 0) Channel Low



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Figure 13-77: 20MHz BW LTE-Band 7(16QAM Number: 100 Offset: 0) Channel Mid

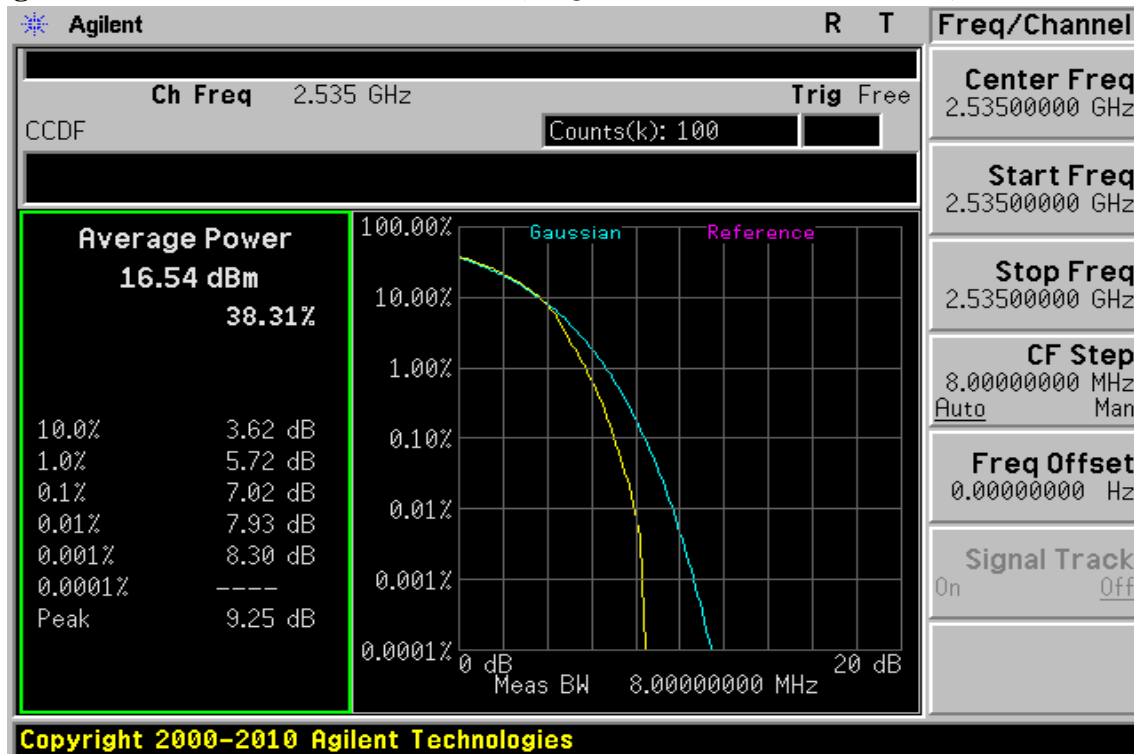
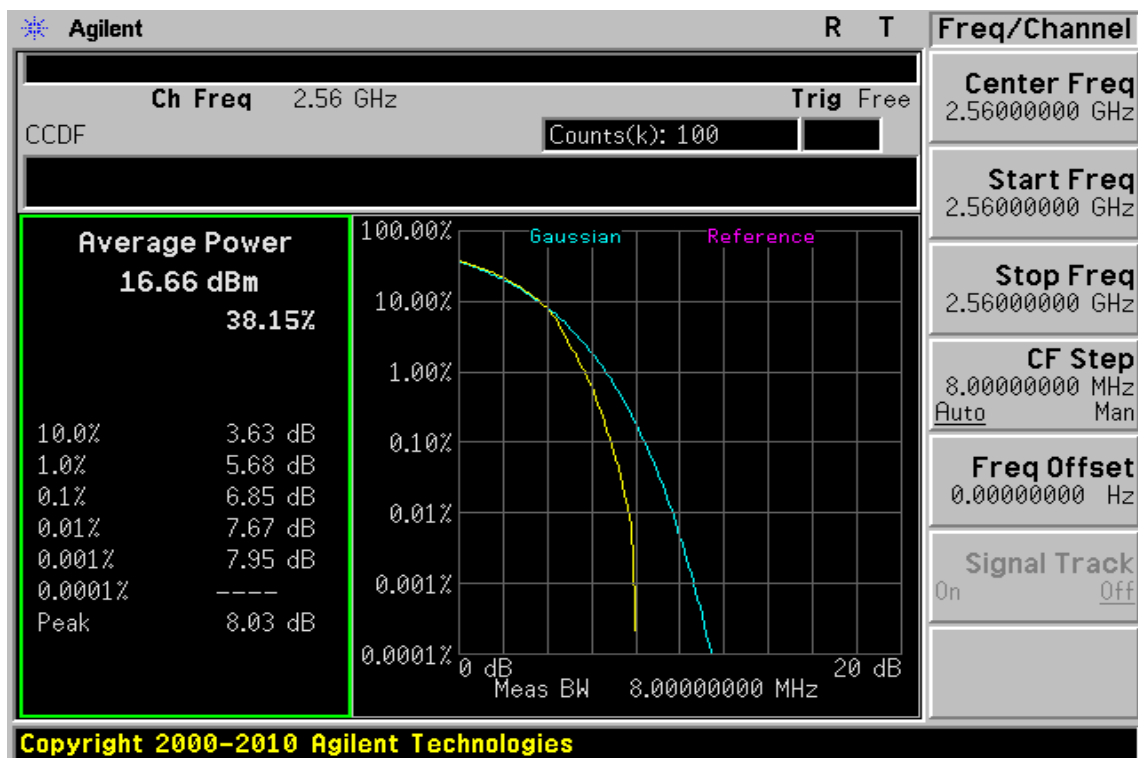


Figure 13-78: 20MHz BW LTE-Band 7(16QAM Number: 100 Offset: 0) Channel High



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APPENDIX 1

MEASUREMENT PLOT OF RADIATED SPURIOUS EMISSION

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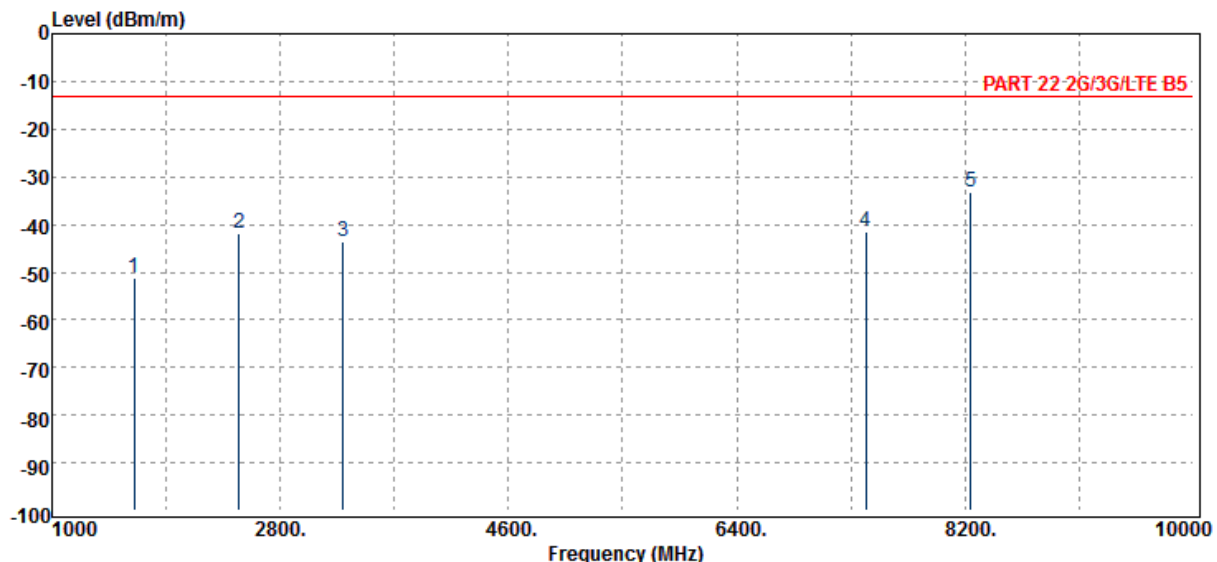
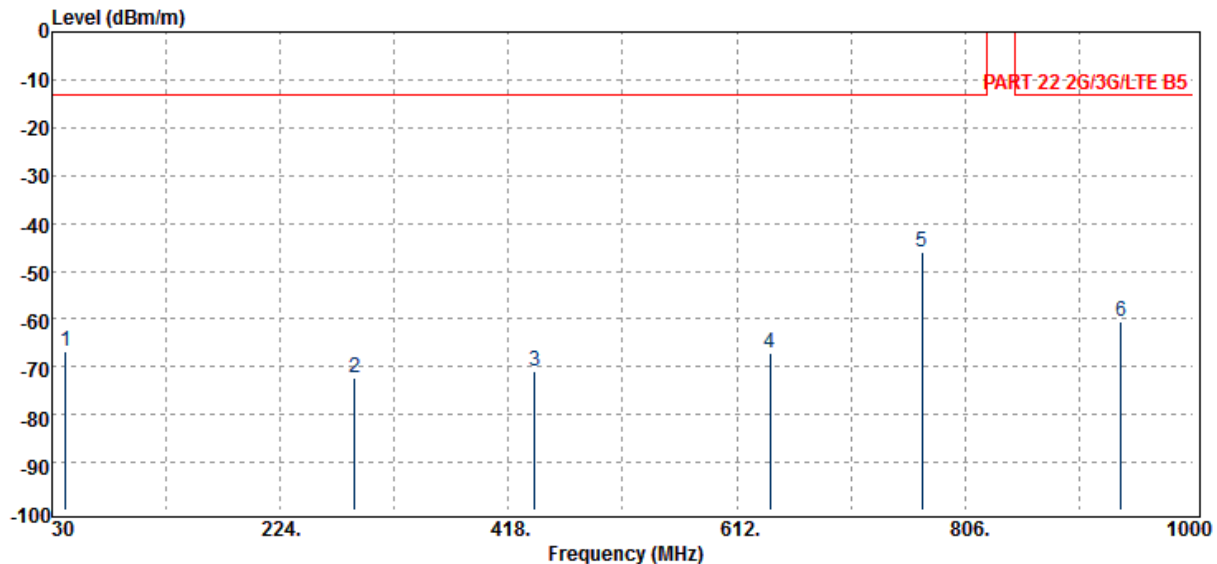
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Radiated Spurious Emission Measurement Result: GSM 850 Mode

ARFCN	:CH 128	Test Date	:2014-11-18
Operation Band	:GSM 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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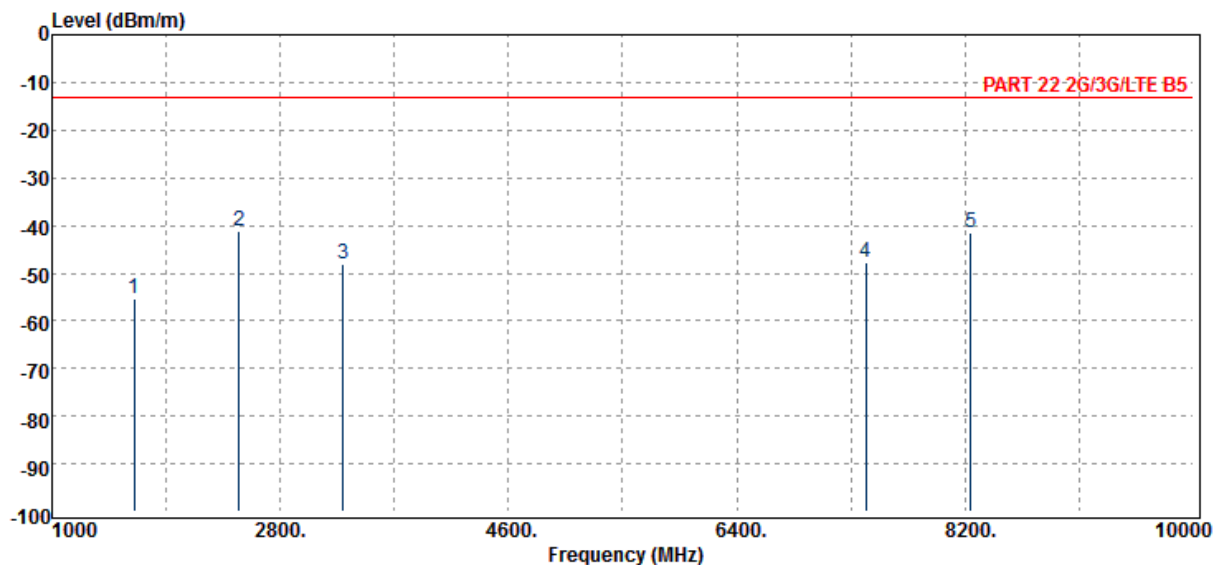
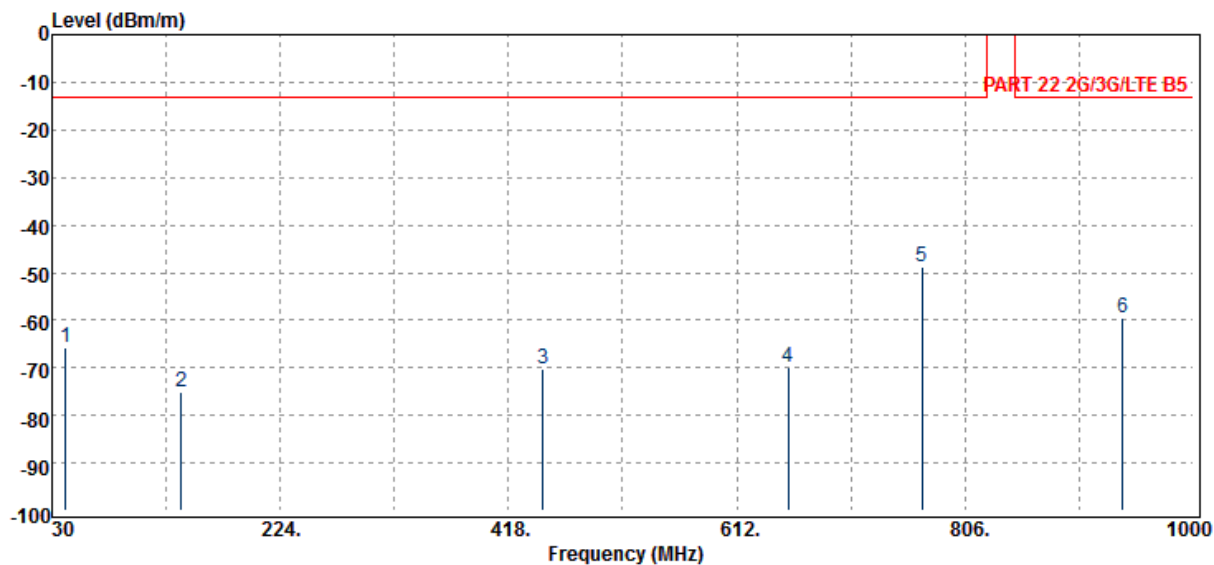
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ARFCN	:CH 128	Test Date	:2014-11-18
Operation Band	:GSM 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plane		



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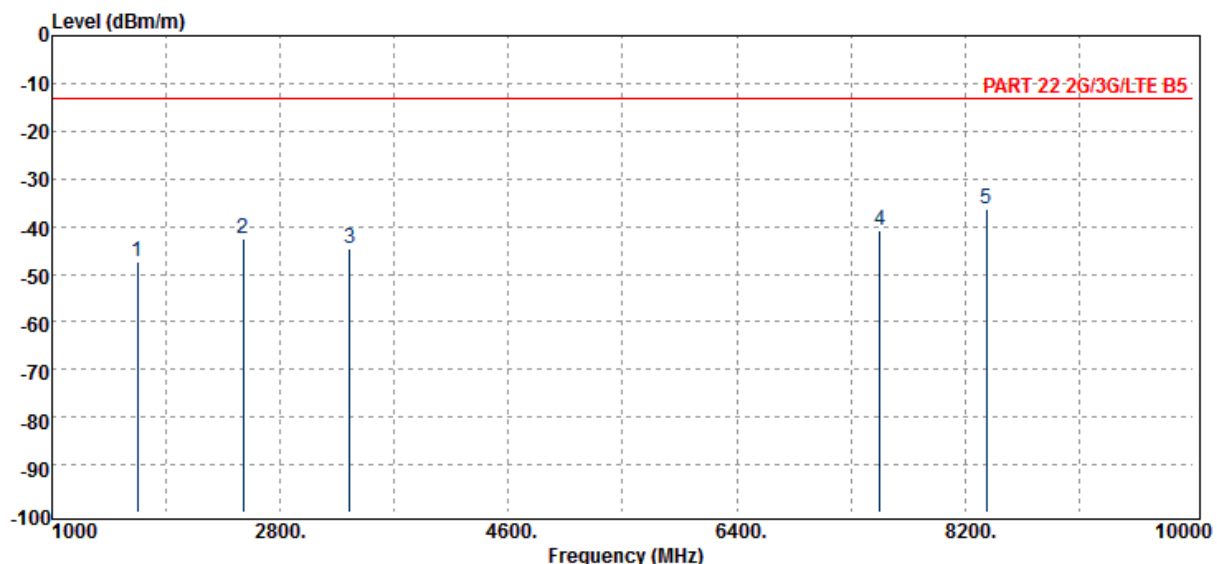
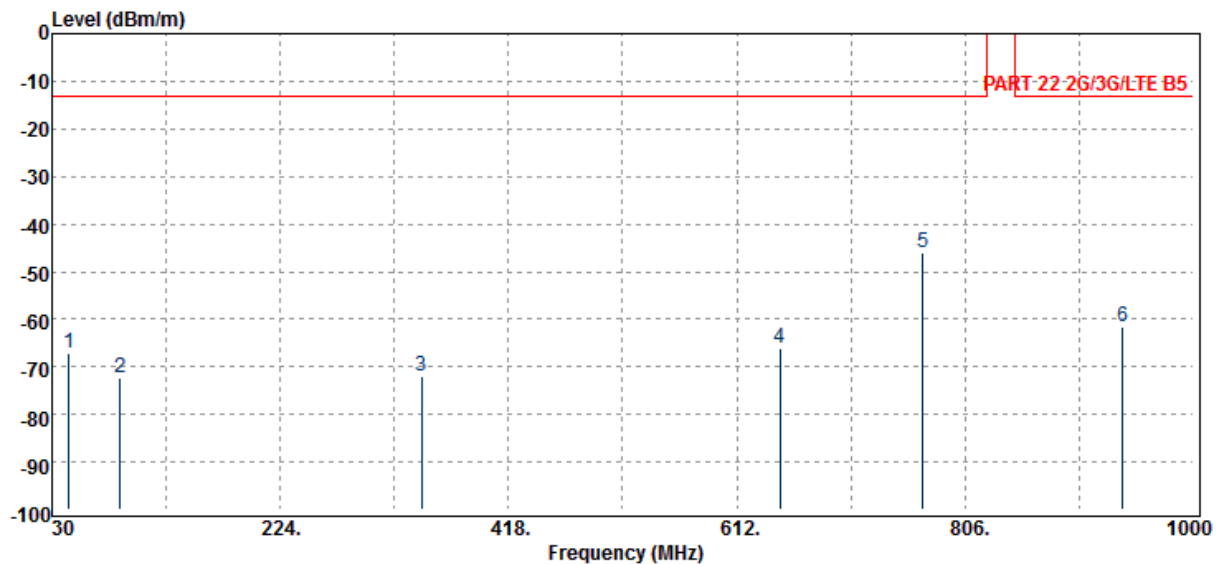
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ARFCN	:CH 190	Test Date	:2014-11-18
Operation Band	:GSM 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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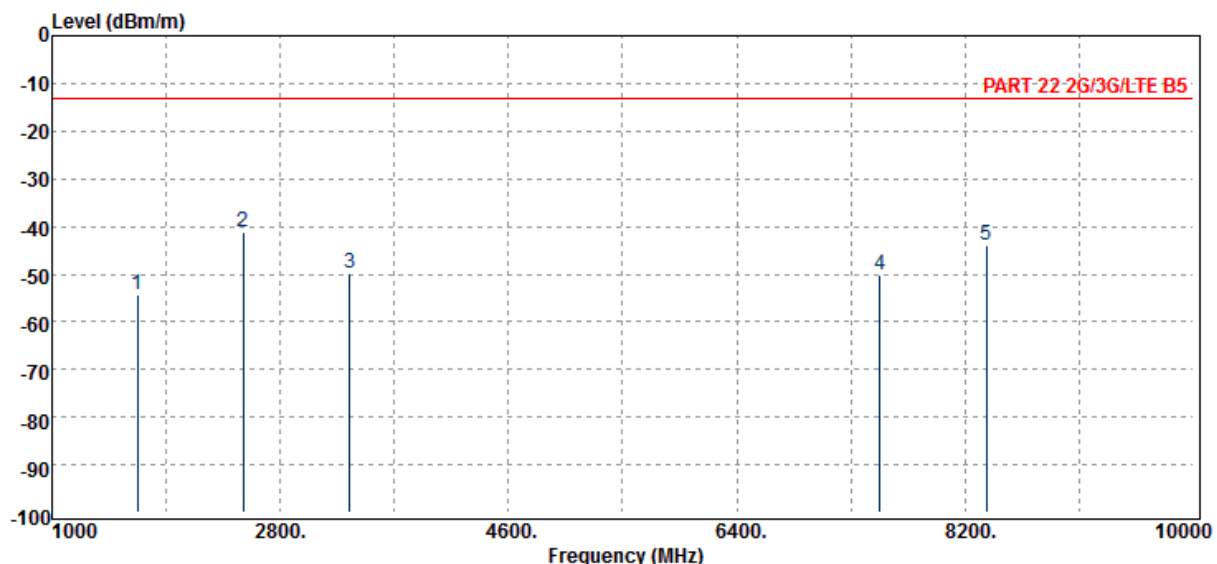
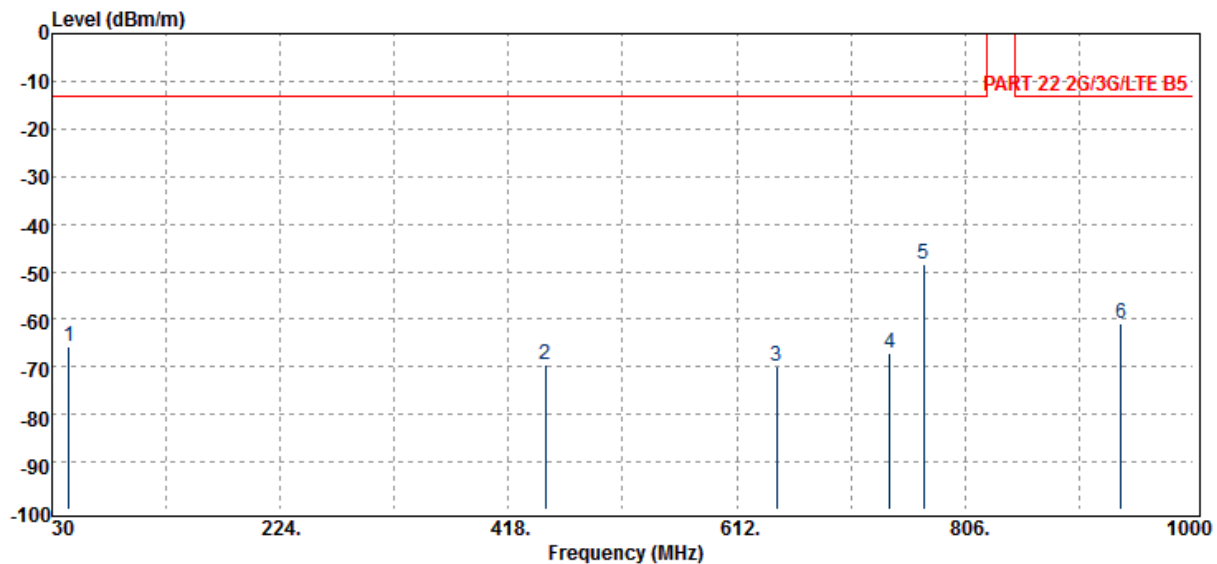
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ARFCN	:CH 190	Test Date	:2014-11-18
Operation Band	:GSM 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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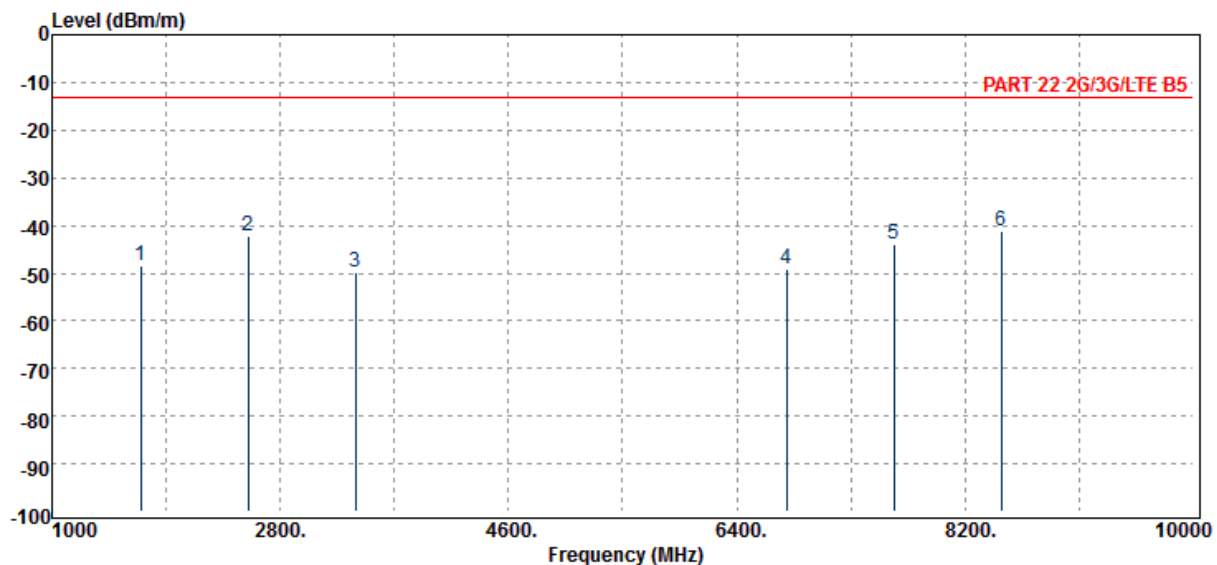
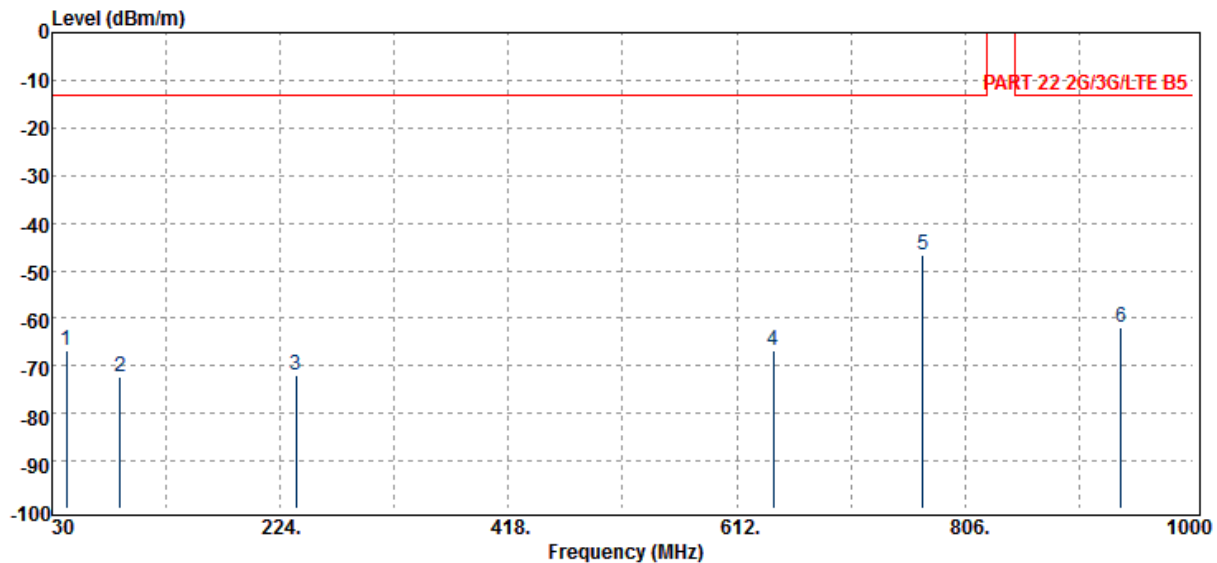
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ARFCN	:CH 251	Test Date	:2014-11-18
Operation Band	:GSM 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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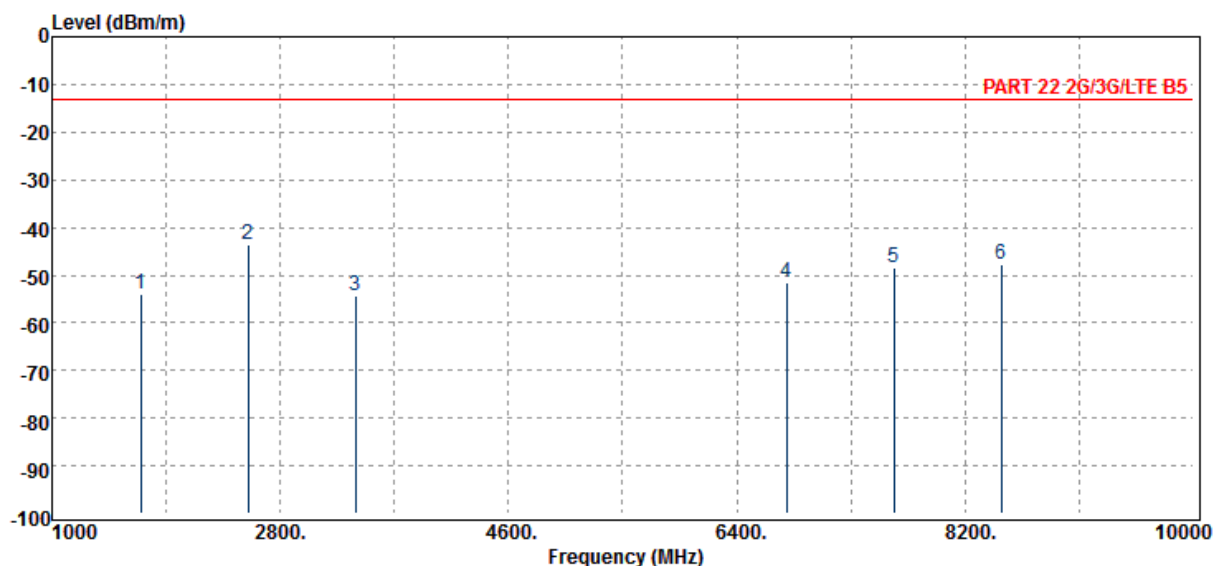
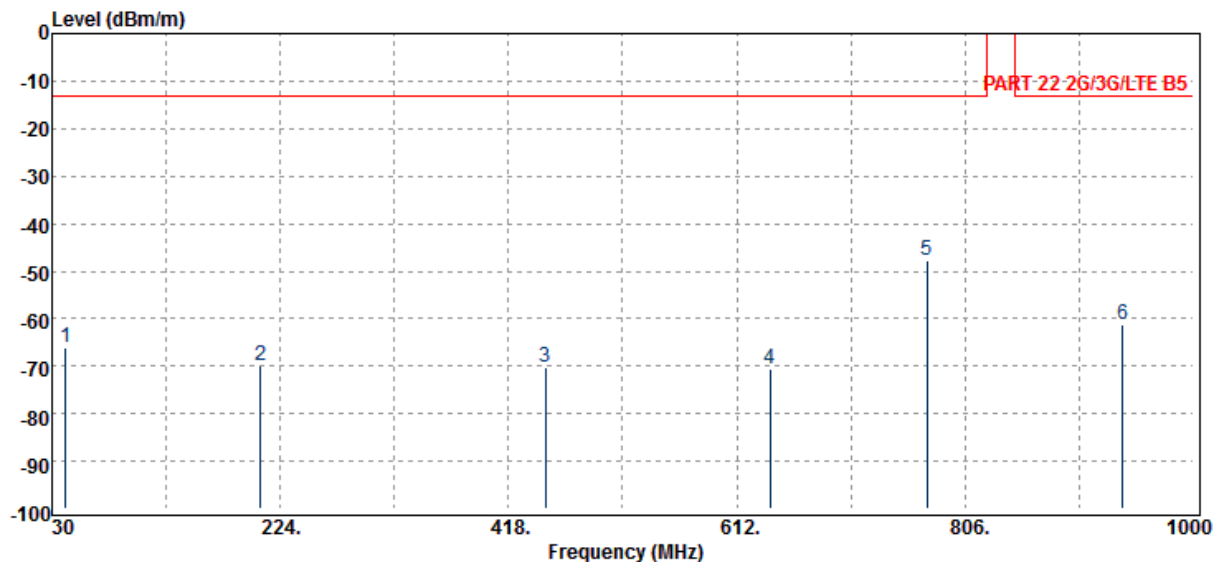
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ARFCN	:CH 251	Test Date	:2014-11-18
Operation Band	:GSM 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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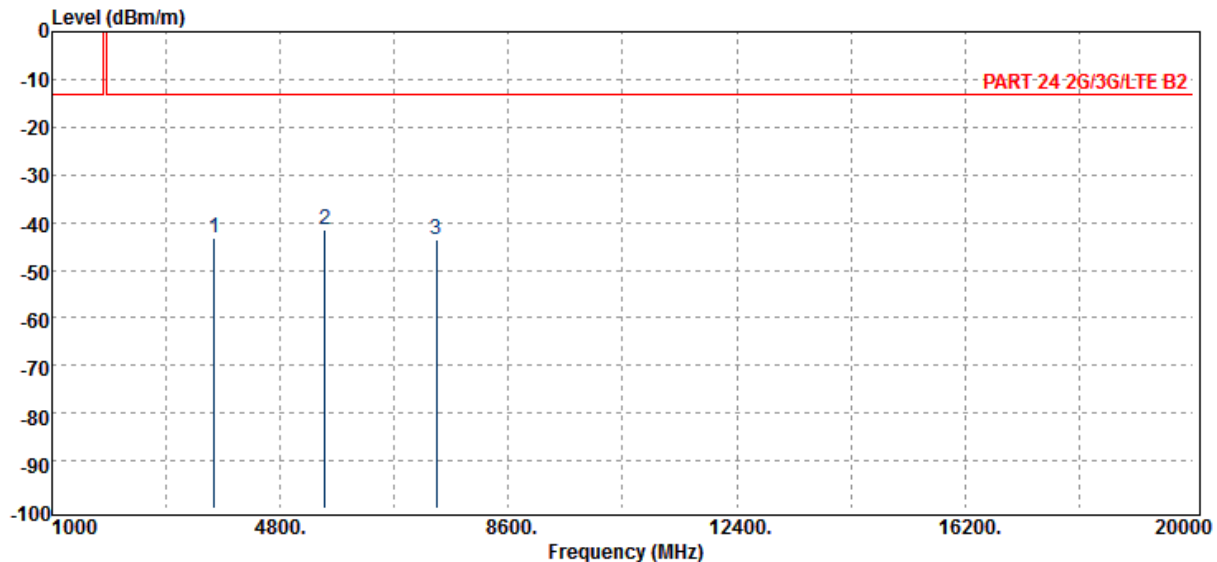
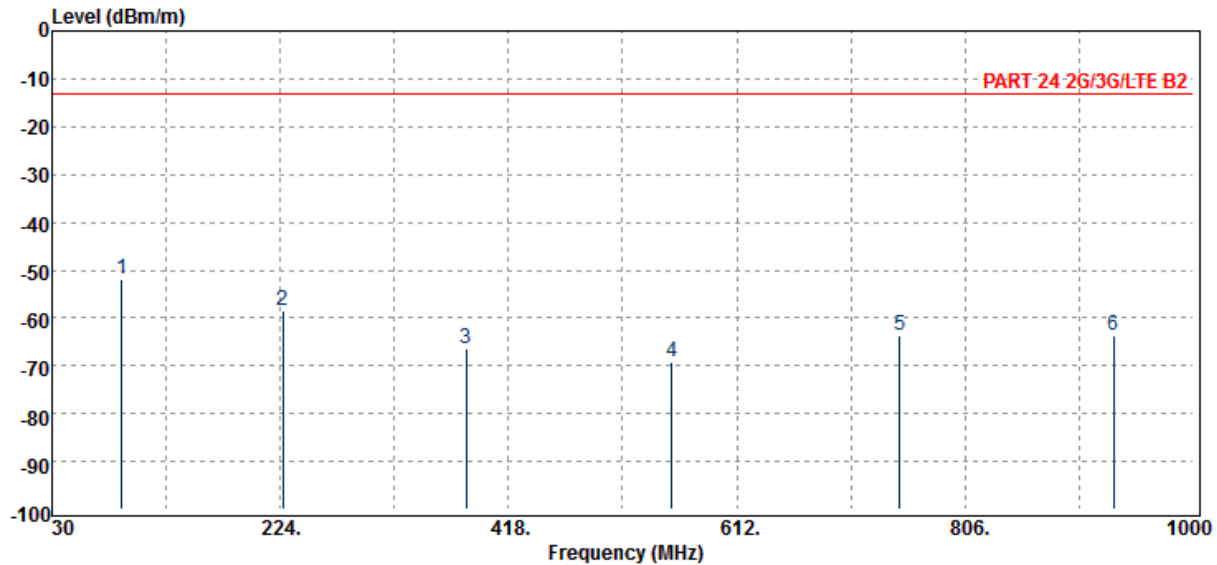
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Radiated Spurious Emission Measurement Result: GSM 1900 Mode

ARFCN	:CH 512	Test Date	:2014-11-18
Operation Band	:GSM 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



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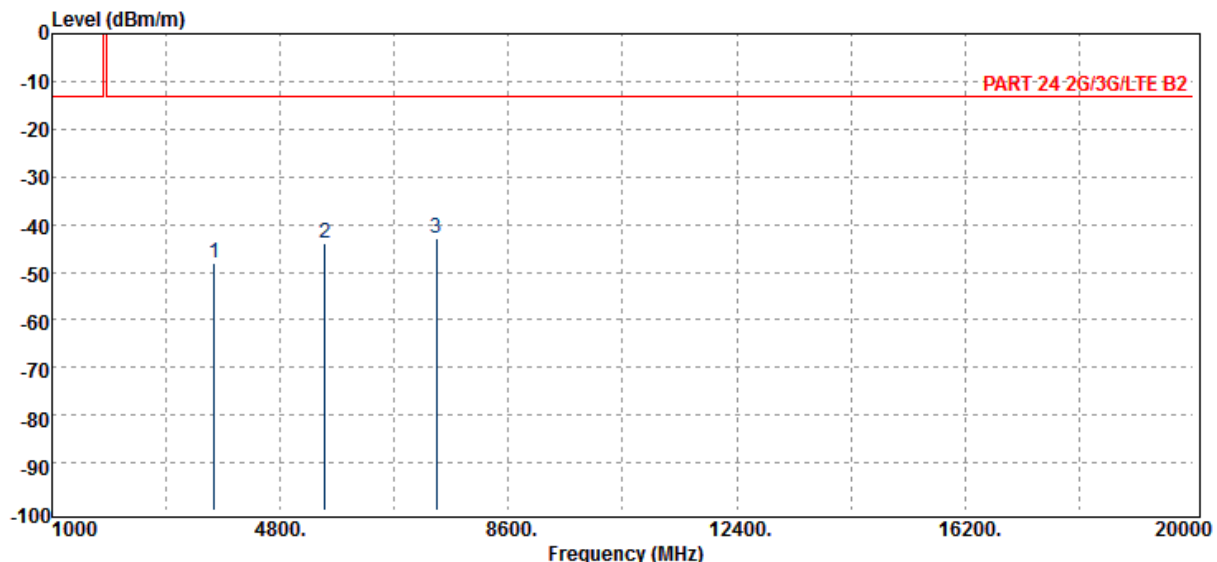
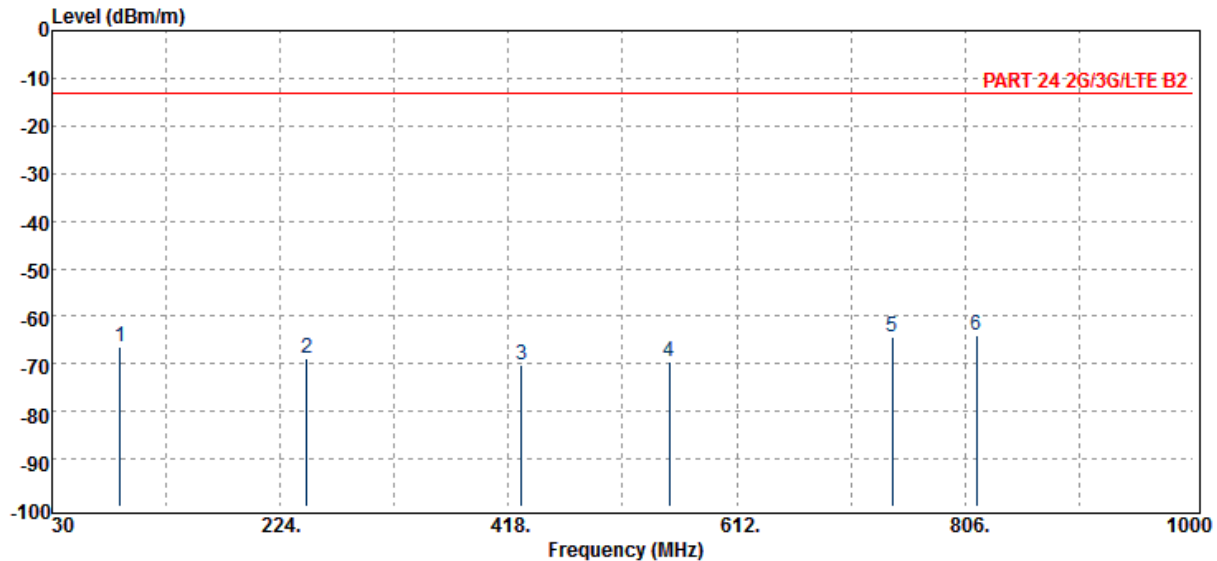
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ARFCN	:CH 512	Test Date	:2014-11-18
Operation Band	:GSM 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



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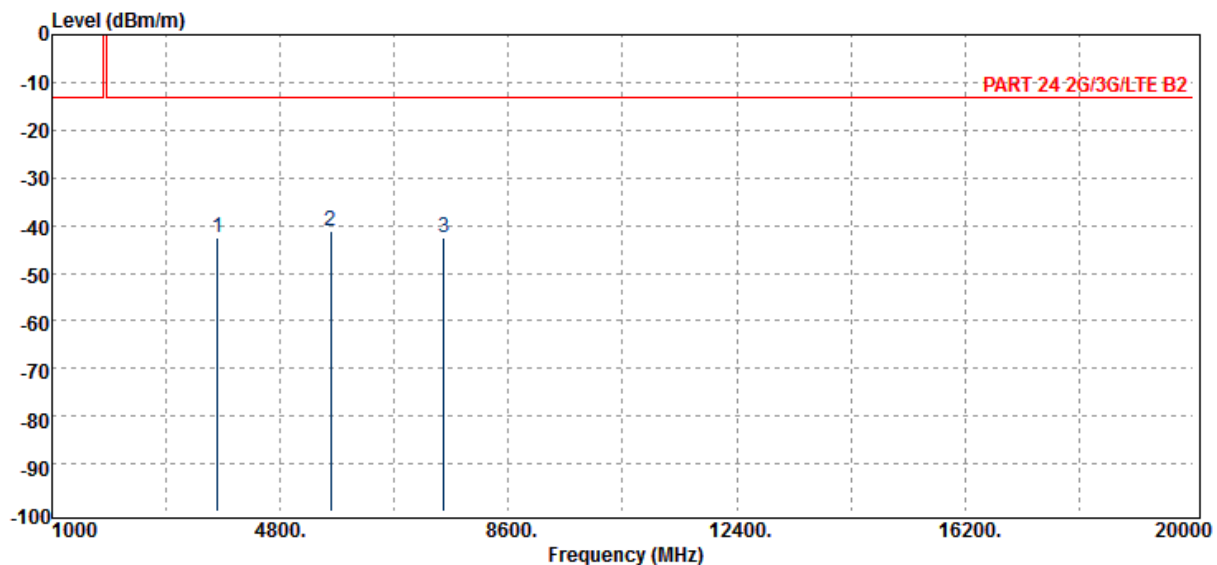
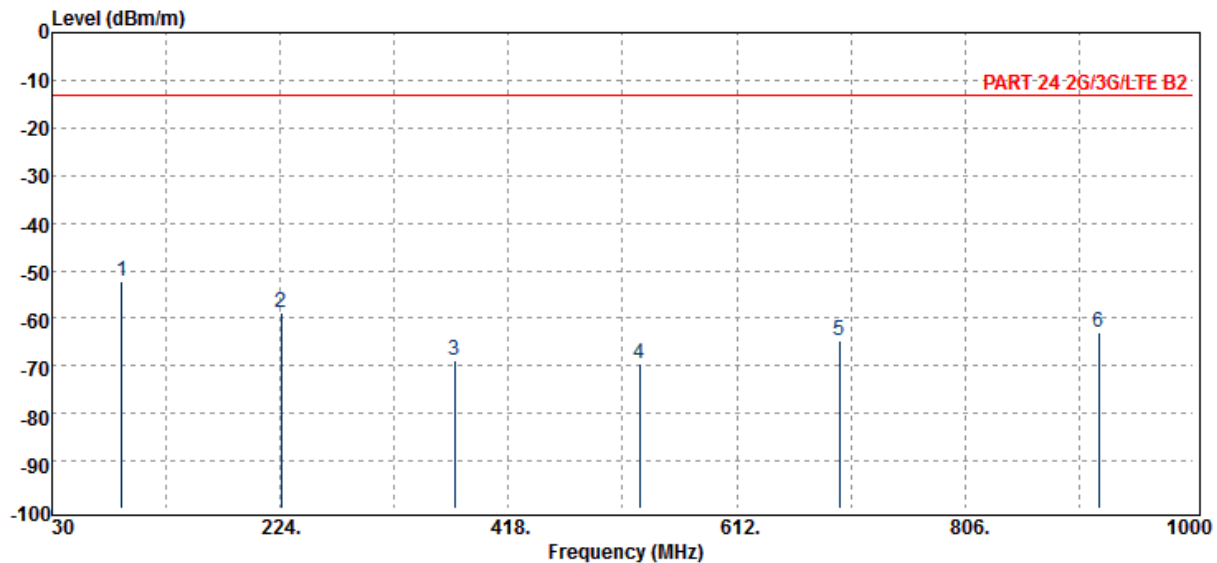
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ARFCN	:CH 661	Test Date	:2014-11-18
Operation Band	:GSM 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



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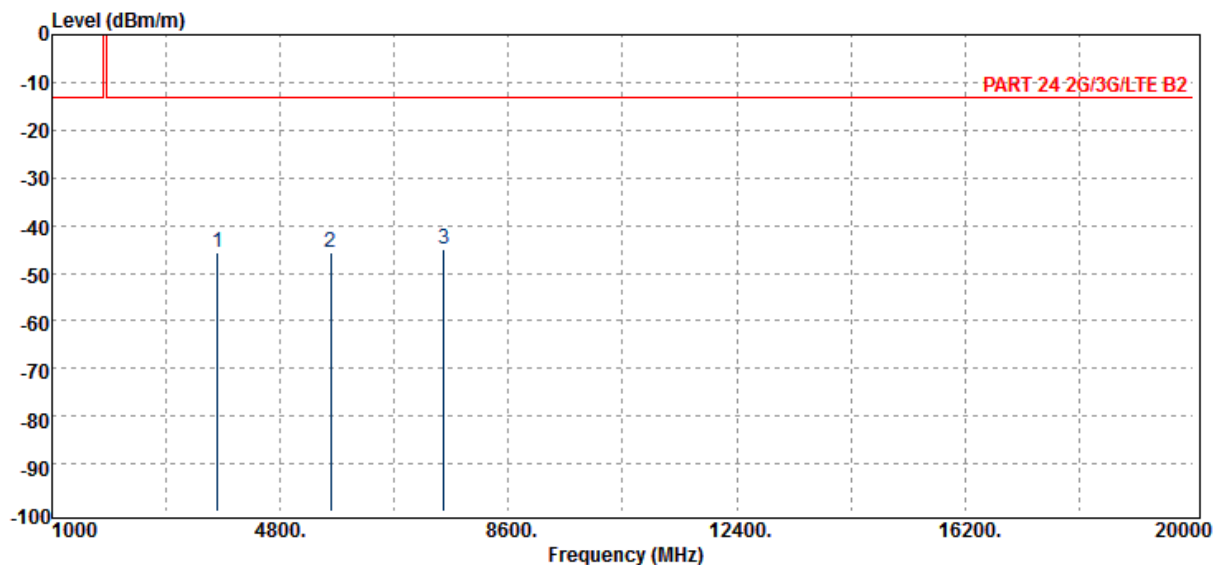
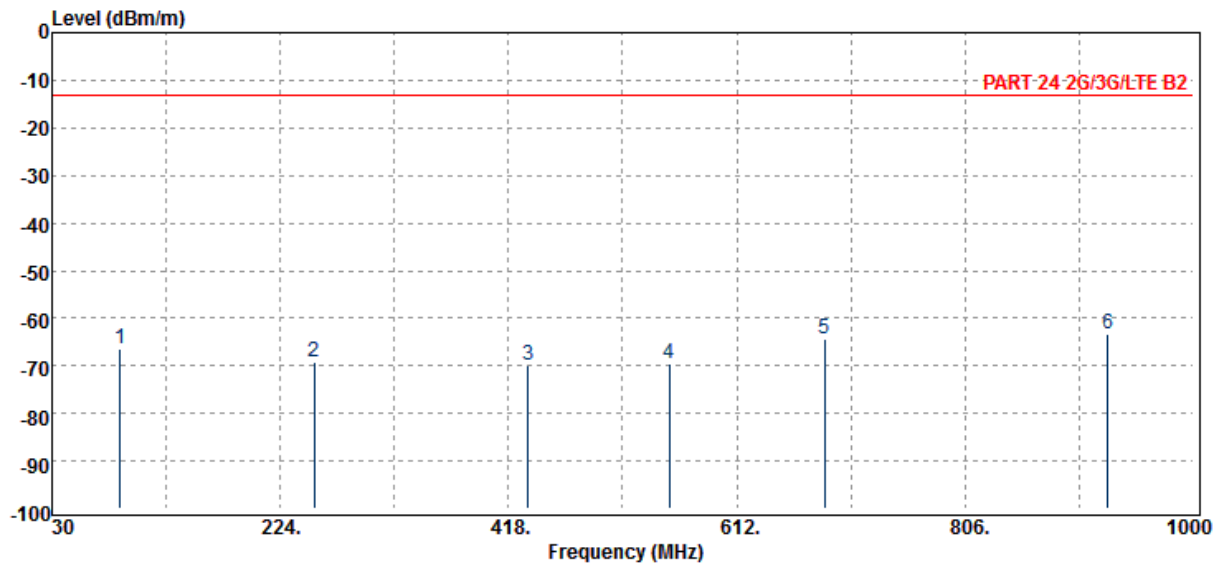
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ARFCN	:CH 661	Test Date	:2014-11-18
Operation Band	:GSM 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



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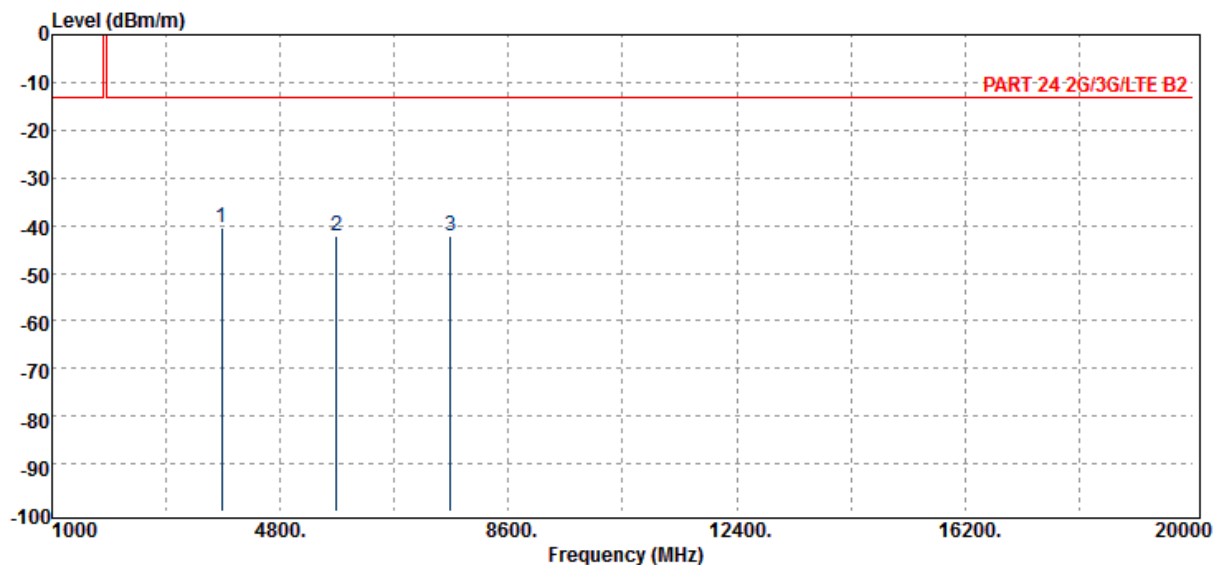
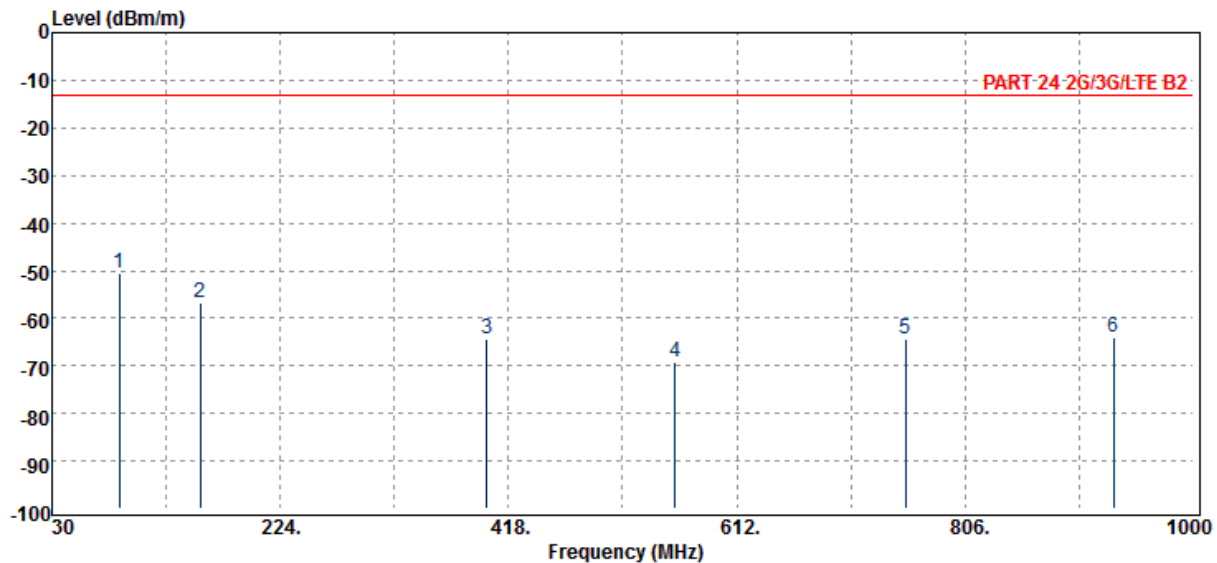
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ARFCN	:CH 810	Test Date	:2014-11-18
Operation Band	:GSM 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



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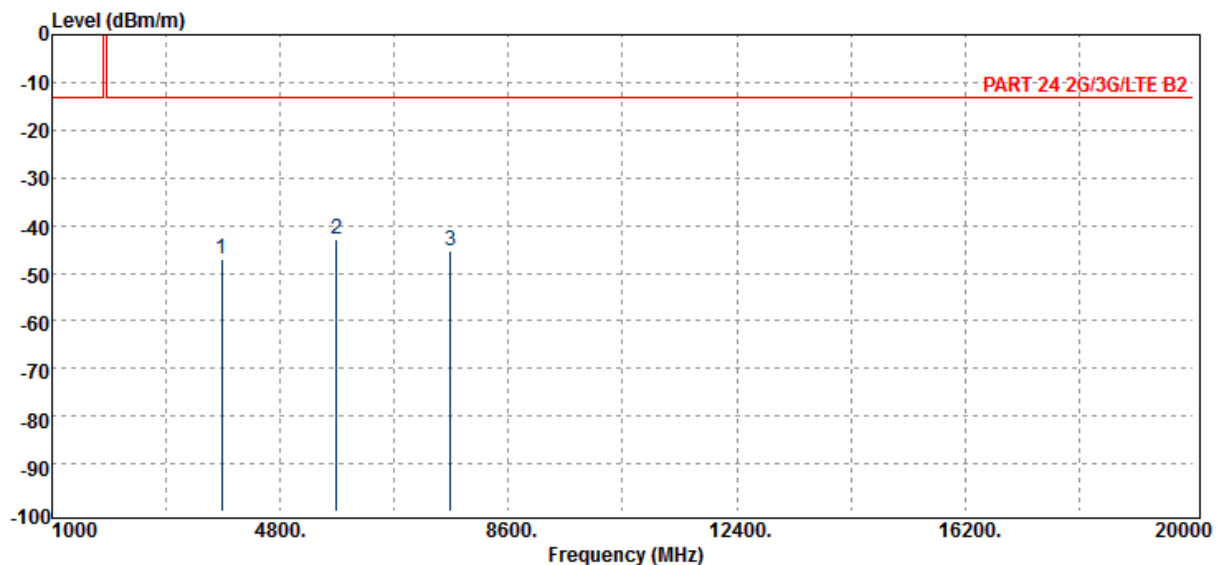
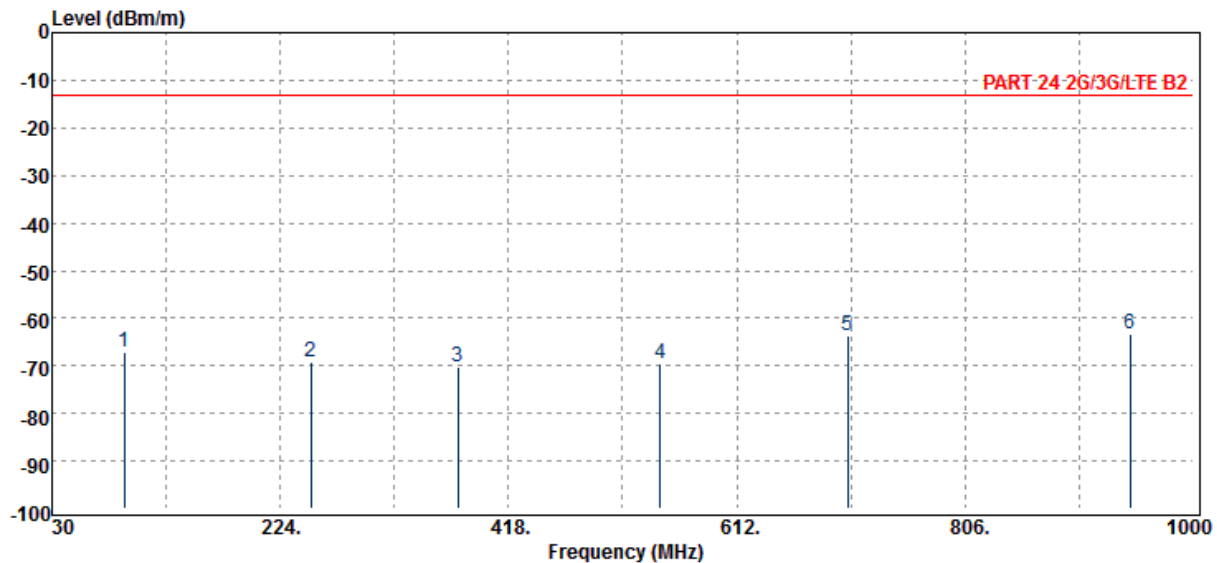
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ARFCN	:CH 810	Test Date	:2014-11-18
Operation Band	:GSM 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



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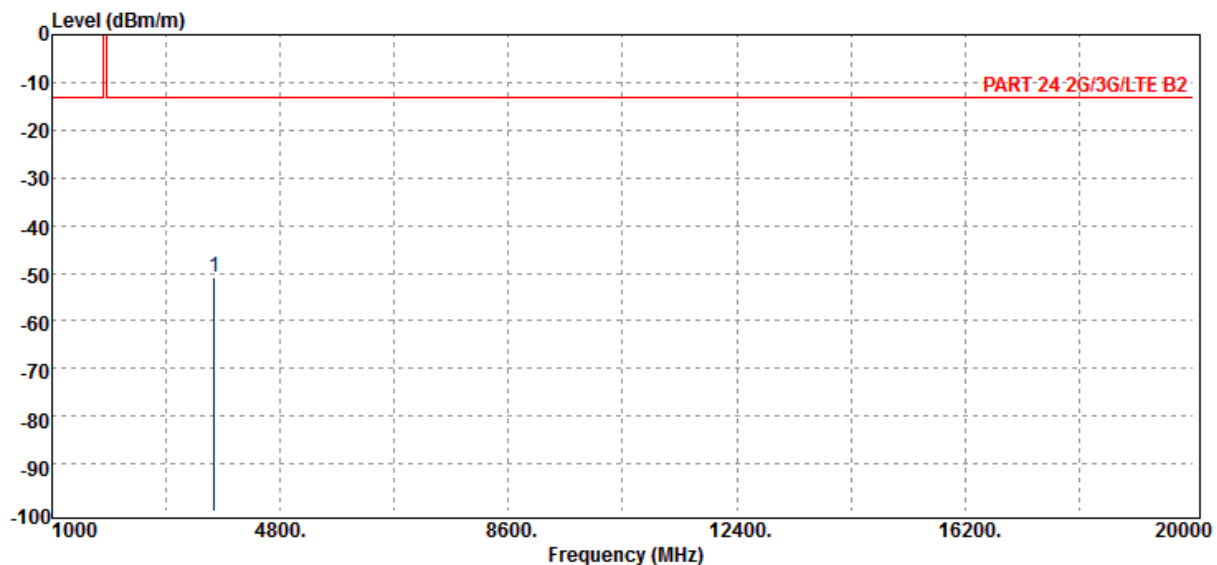
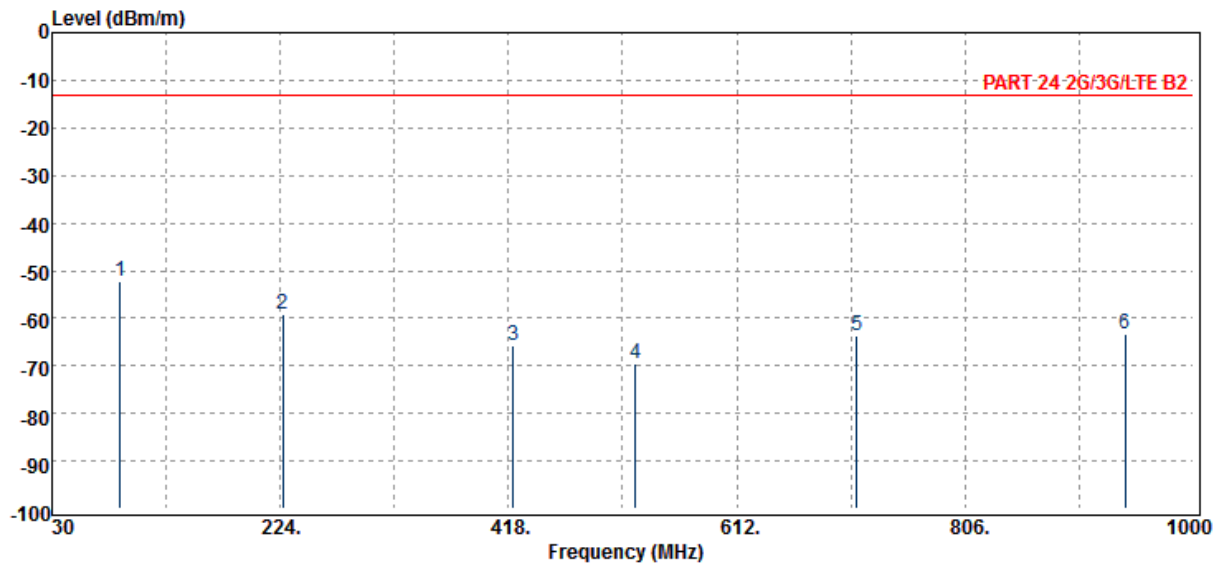
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Radiated Spurious Emission Measurement Result: WCDMA II Mode

ARFCN	:CH 9262	Test Date	:2014-11-18
Operation Band	:WCDMA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



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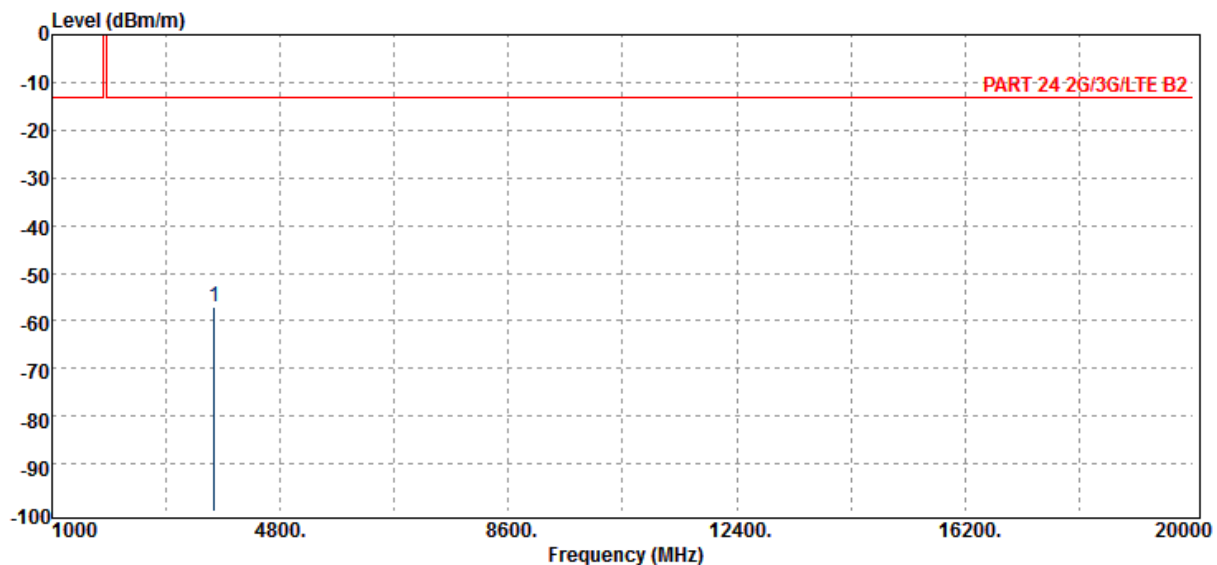
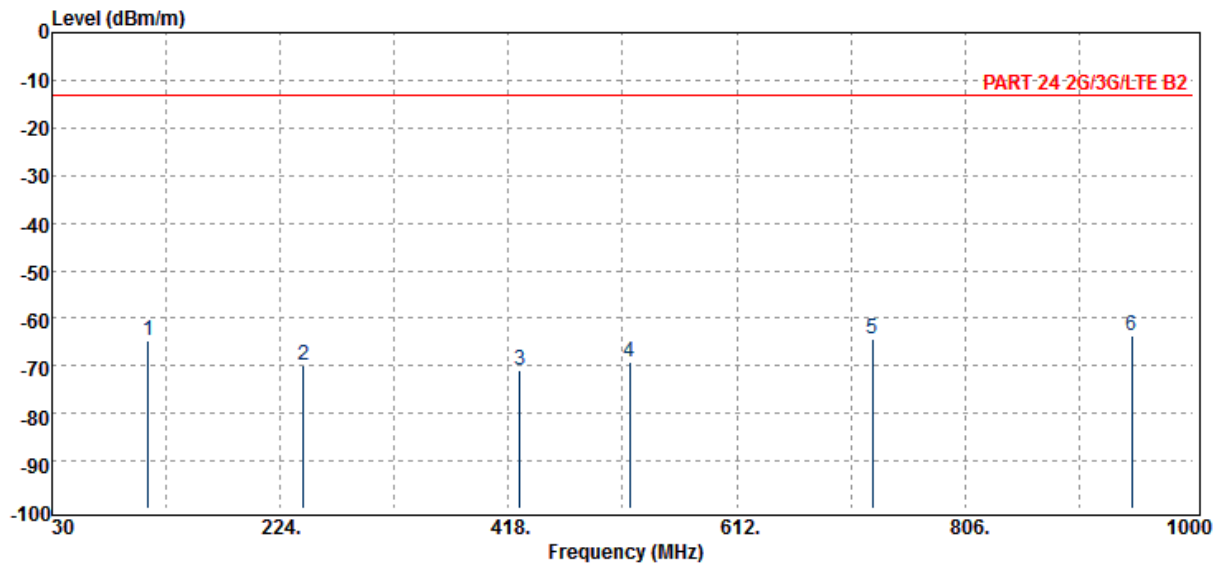
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ARFCN	:CH 9262	Test Date	:2014-11-18
Operation Band	:WCDMA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



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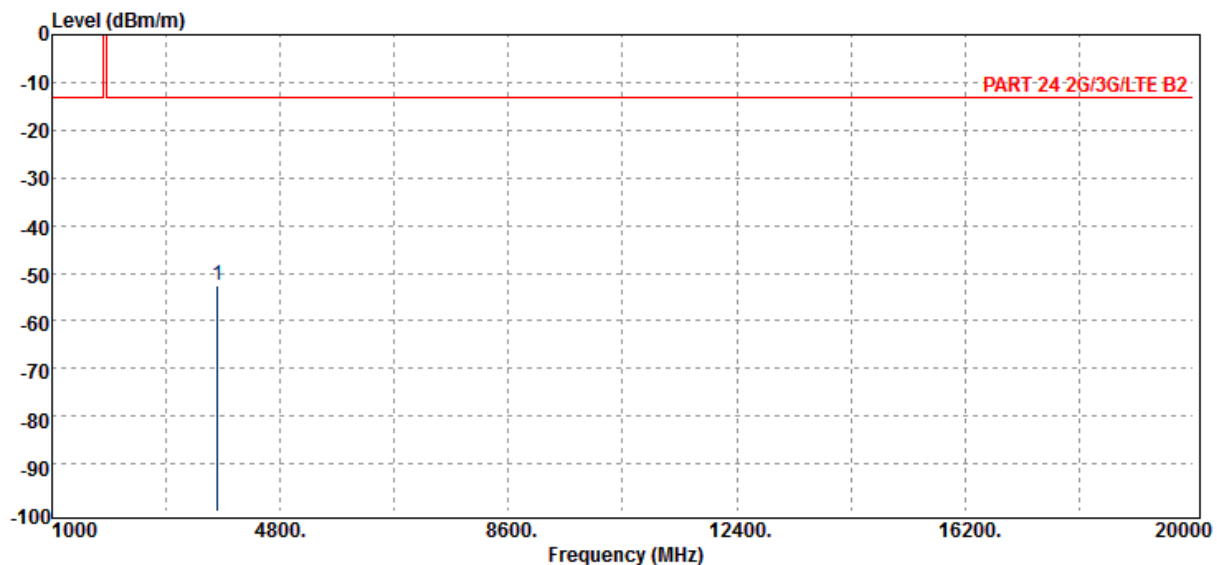
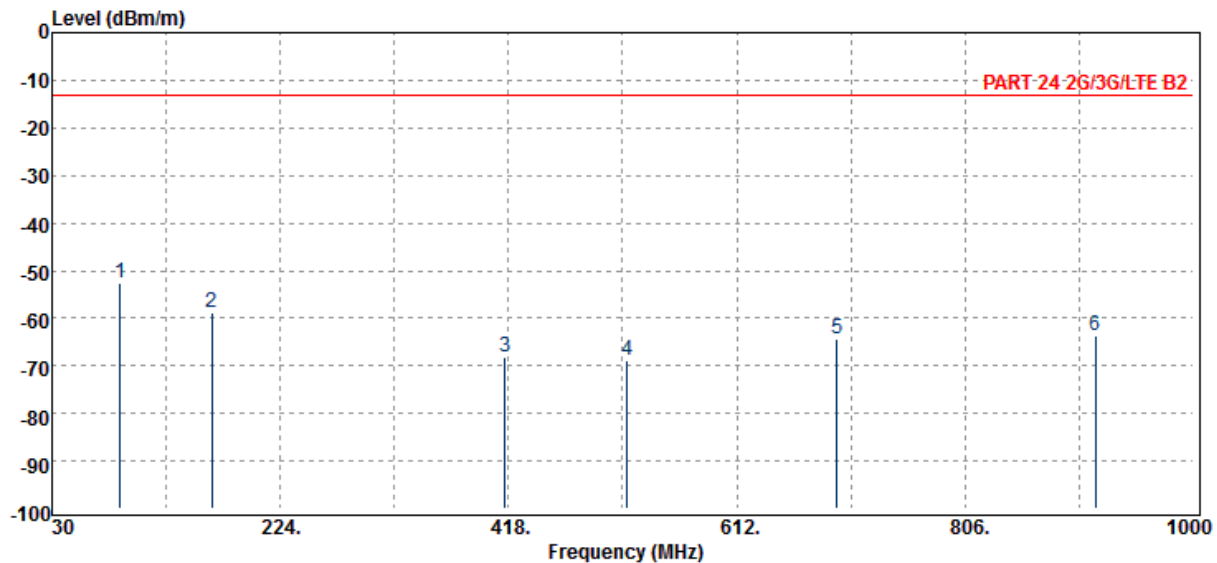
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ARFCN	:CH 9400	Test Date	:2014-11-18
Operation Band	:WCDMA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



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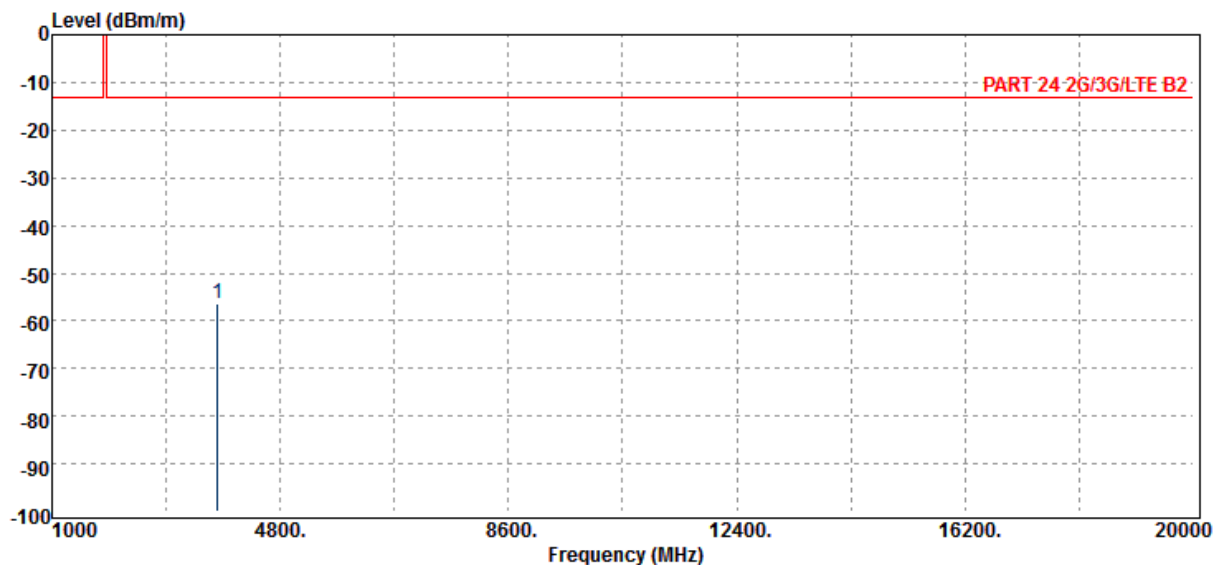
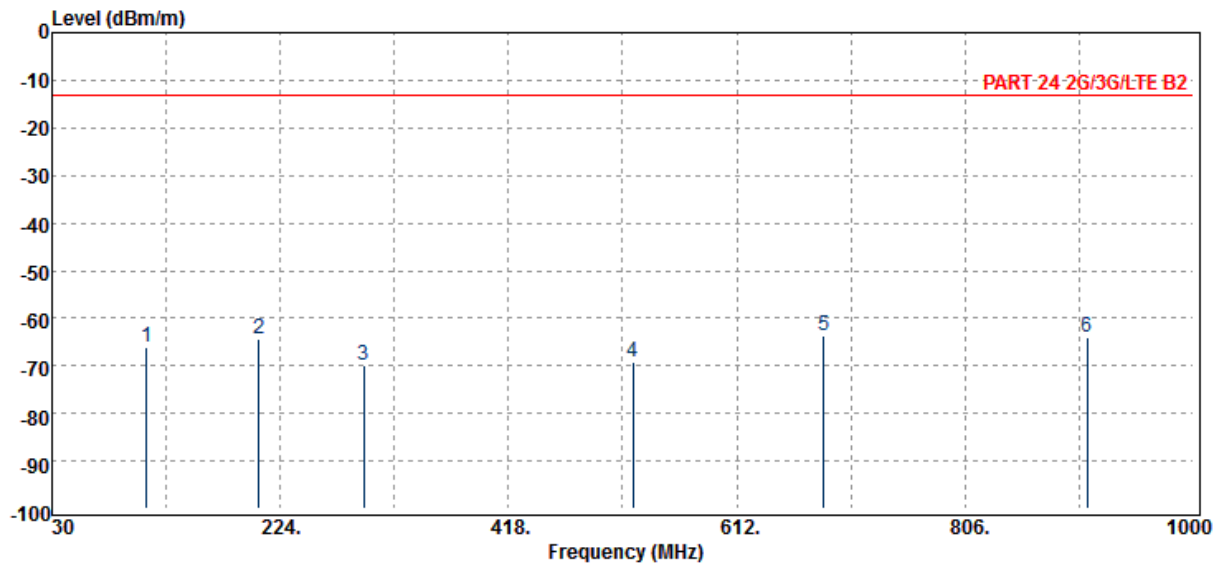
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ARFCN	:CH 9400	Test Date	:2014-11-18
Operation Band	:WCDMA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



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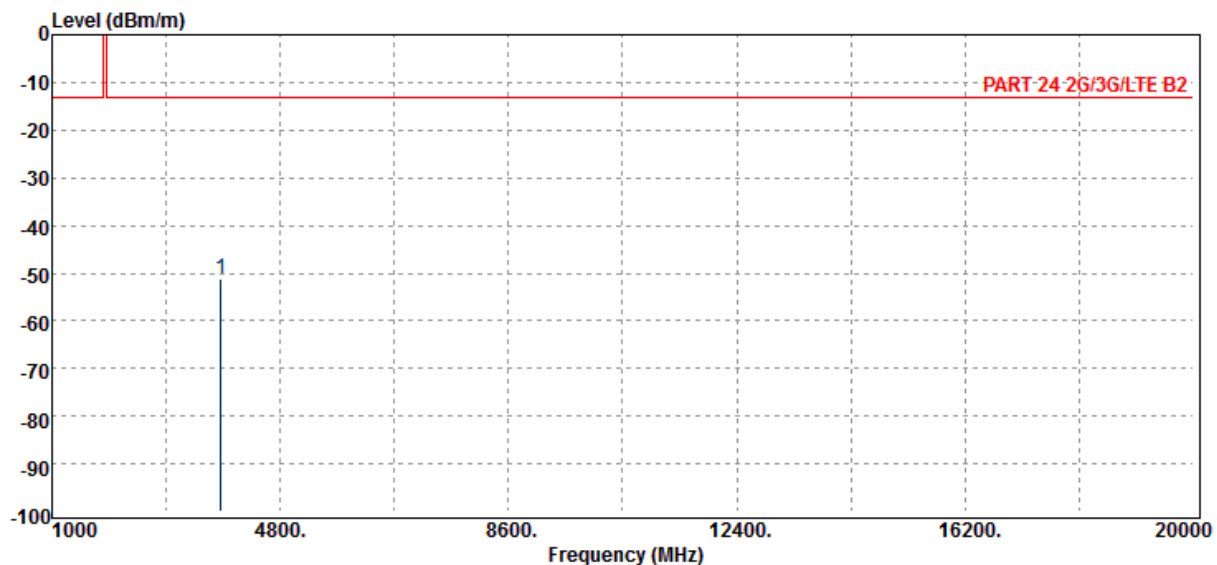
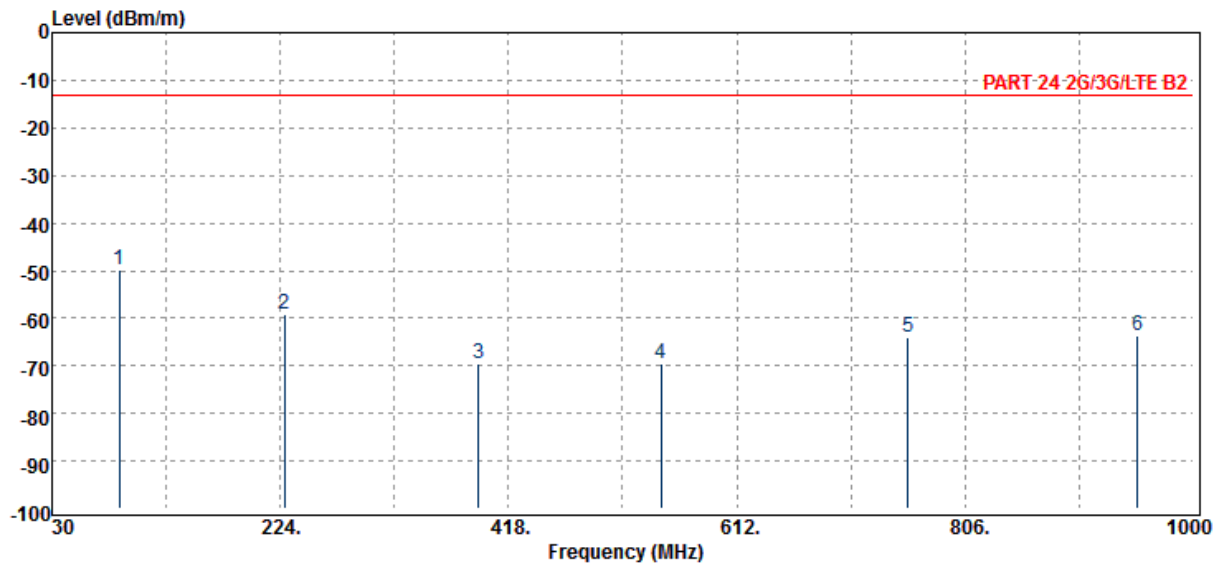
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ARFCN	:CH 9538	Test Date	:2014-11-18
Operation Band	:WCDMA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



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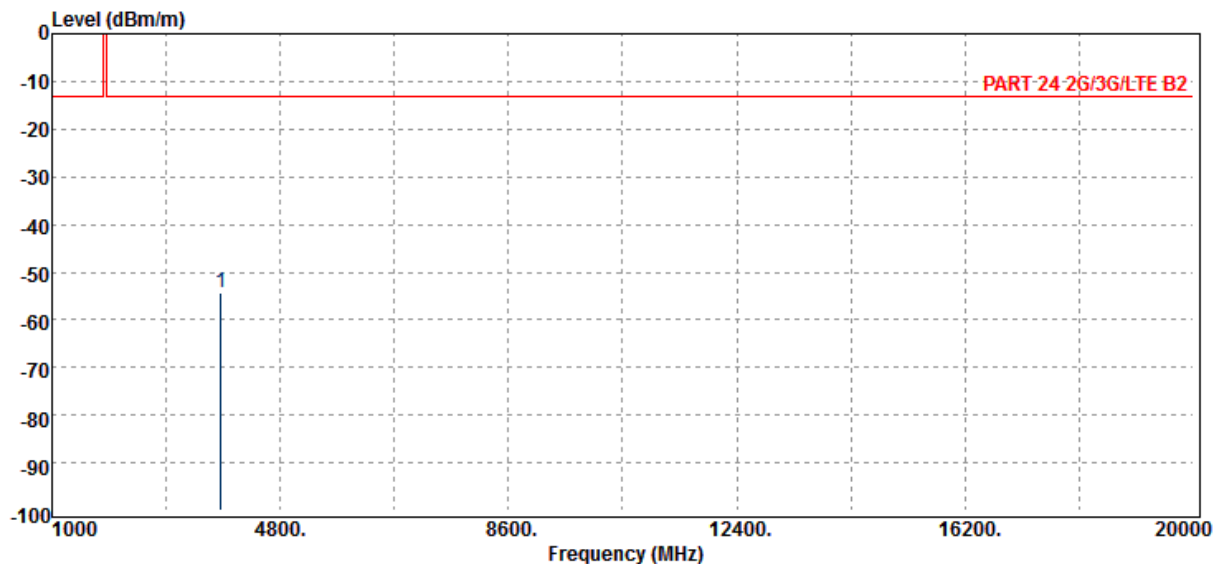
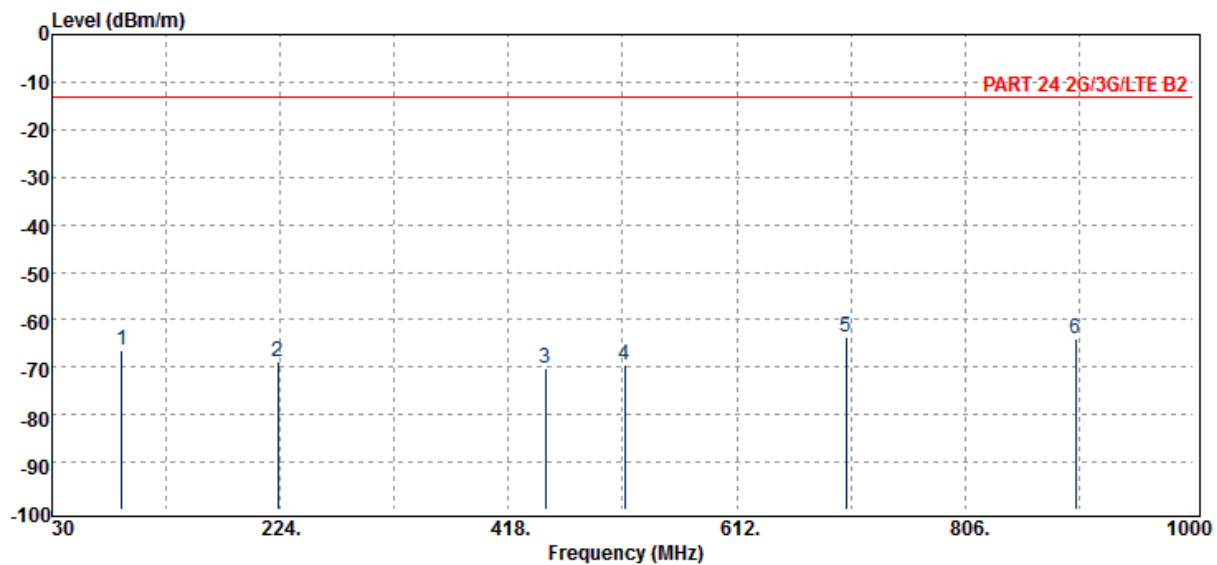
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ARFCN	:CH 9538	Test Date	:2014-11-18
Operation Band	:WCDMA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



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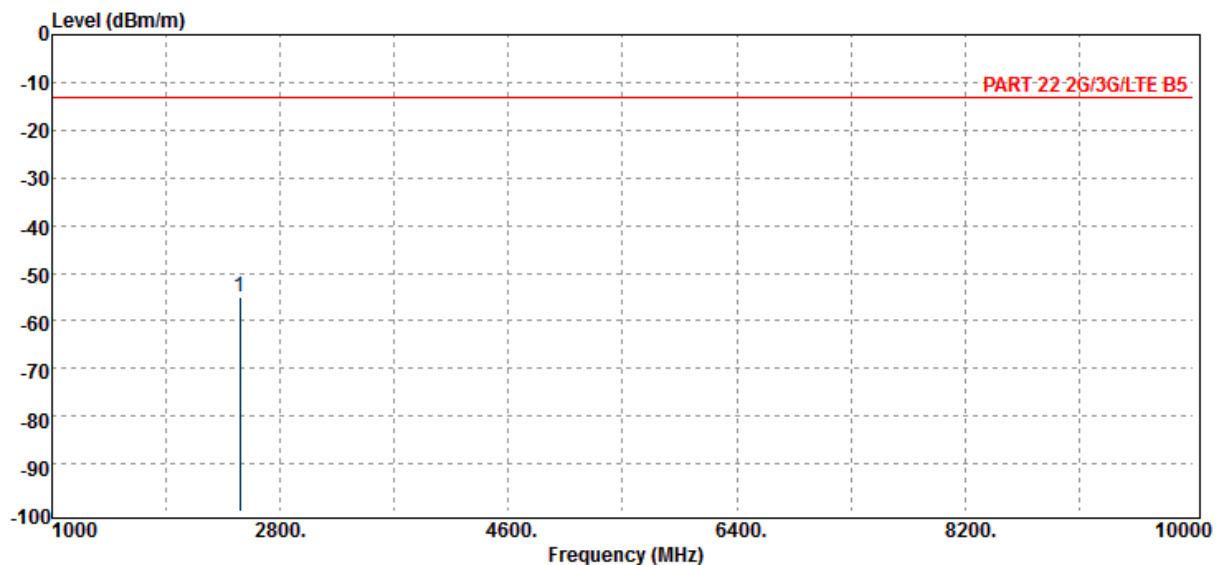
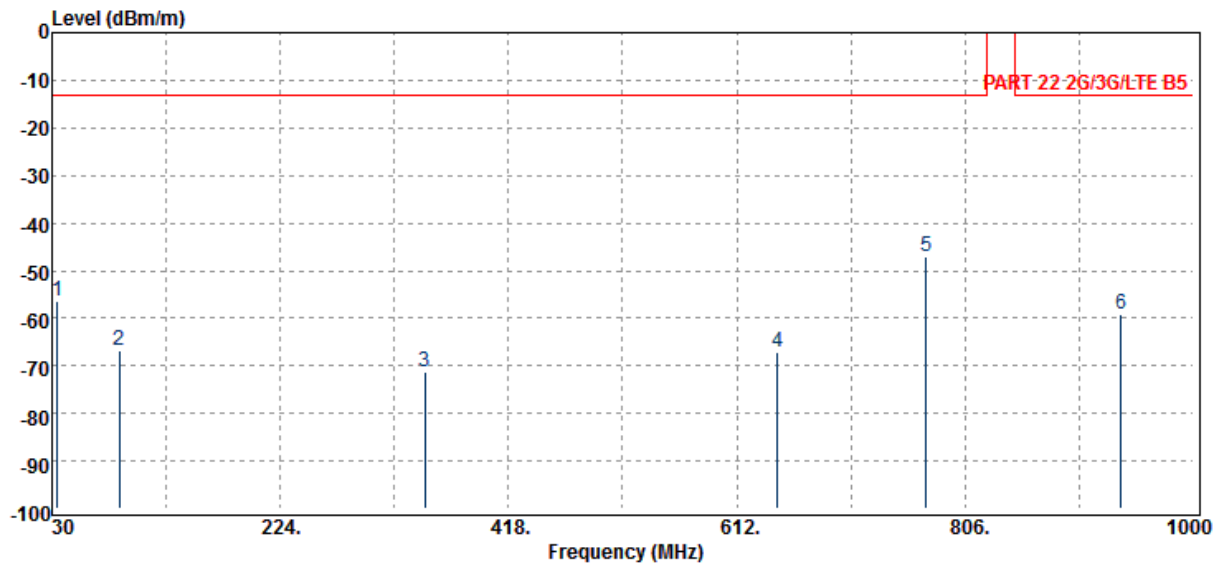
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Radiated Spurious Emission Measurement Result: WCDMA V Mode

ARFCN	:CH 4132	Test Date	:2014-11-18
Operation Band	:WCDMA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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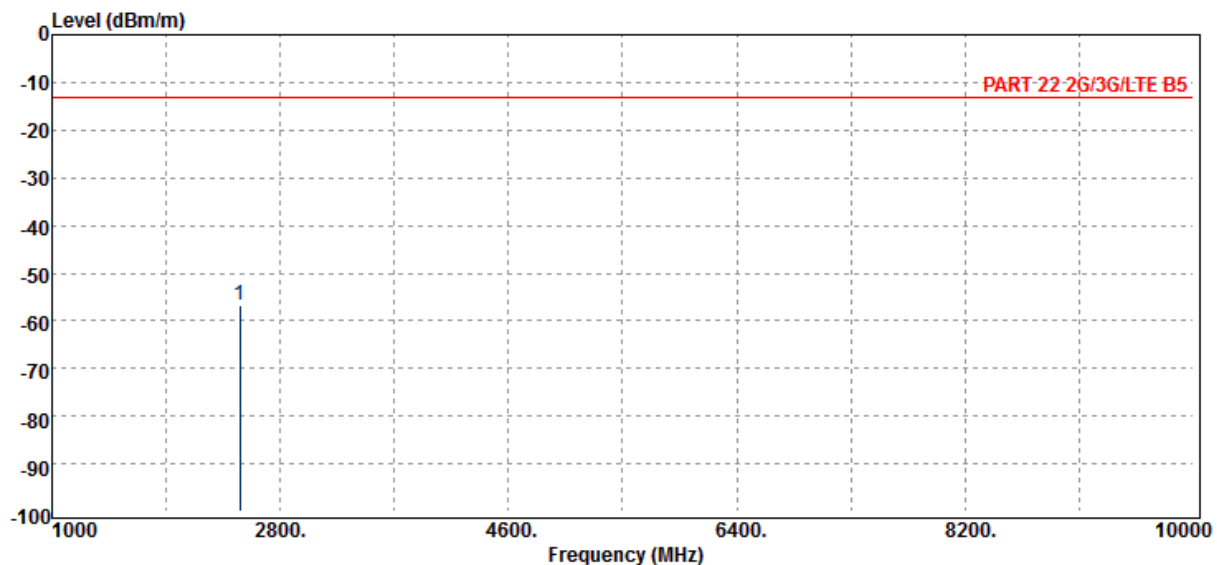
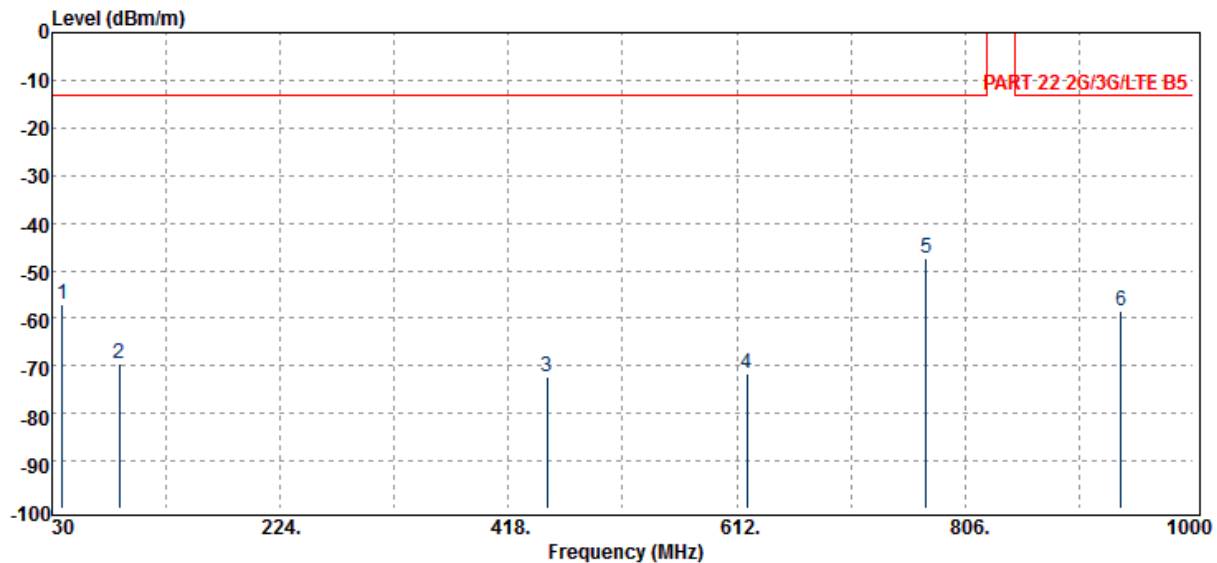
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ARFCN	:CH 4132	Test Date	:2014-11-18
Operation Band	:WCDMA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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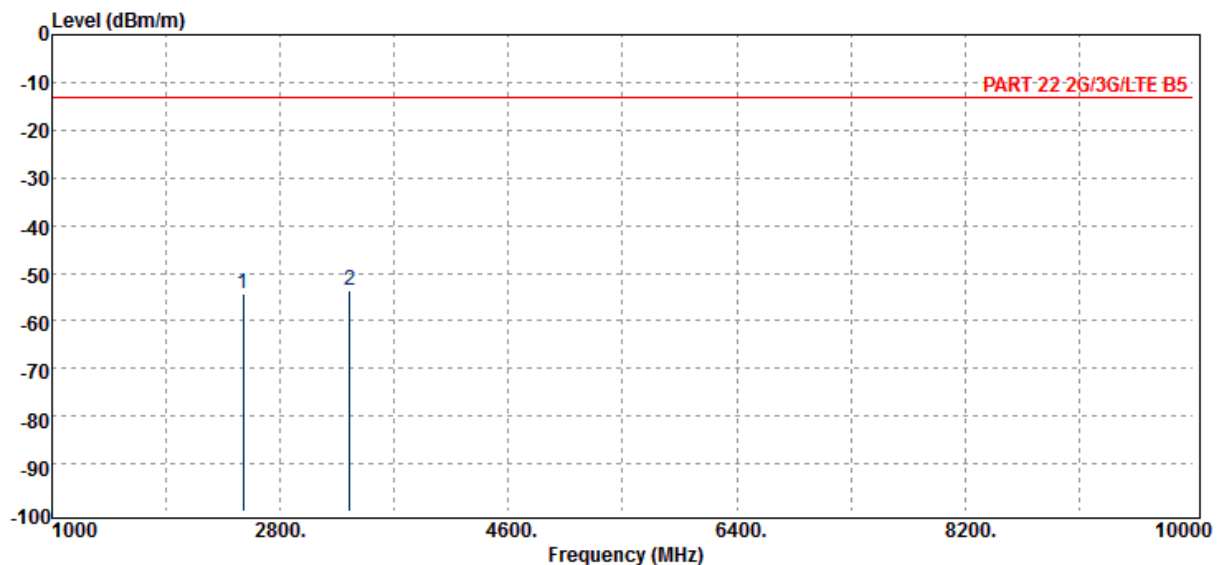
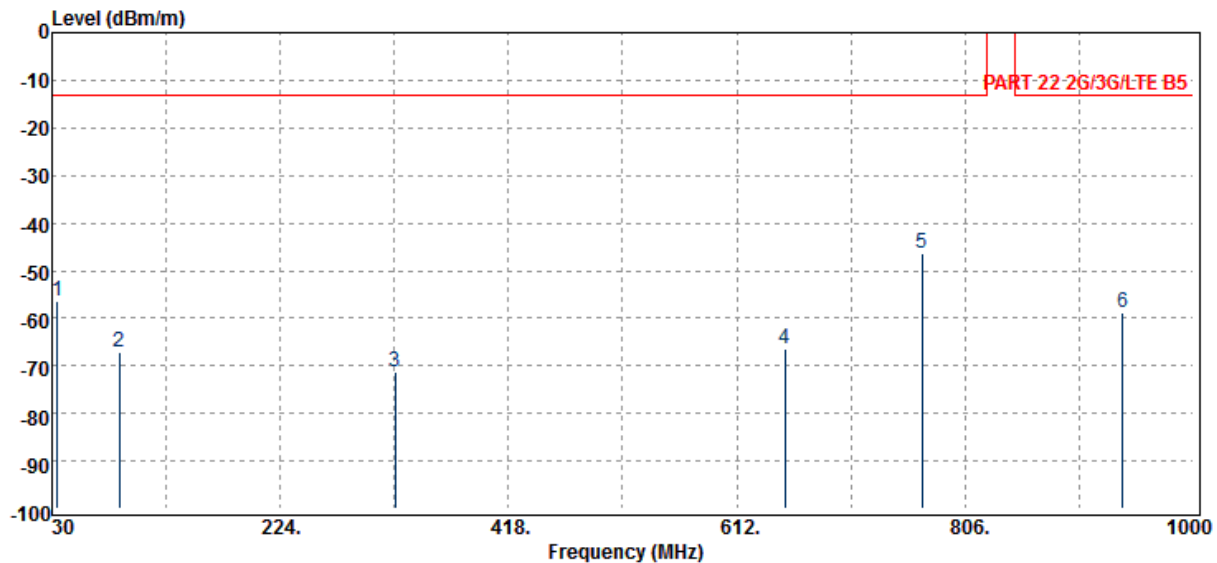
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ARFCN	:CH 4183	Test Date	:2014-11-18
Operation Band	:WCDMA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plane		



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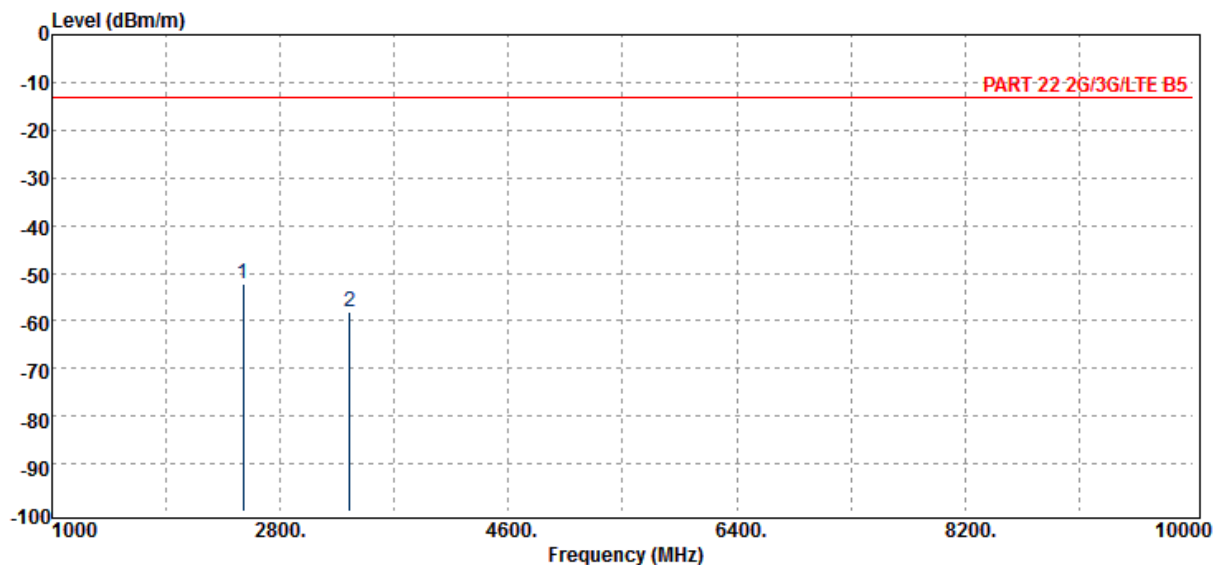
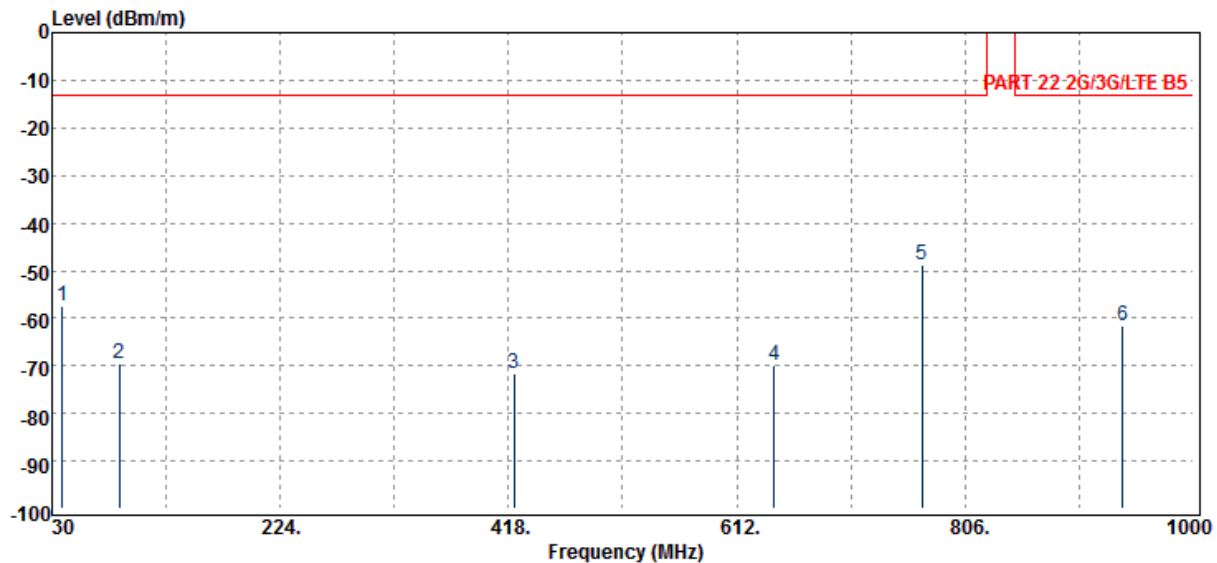
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ARFCN	:CH 4183	Test Date	:2014-11-18
Operation Band	:WCDMA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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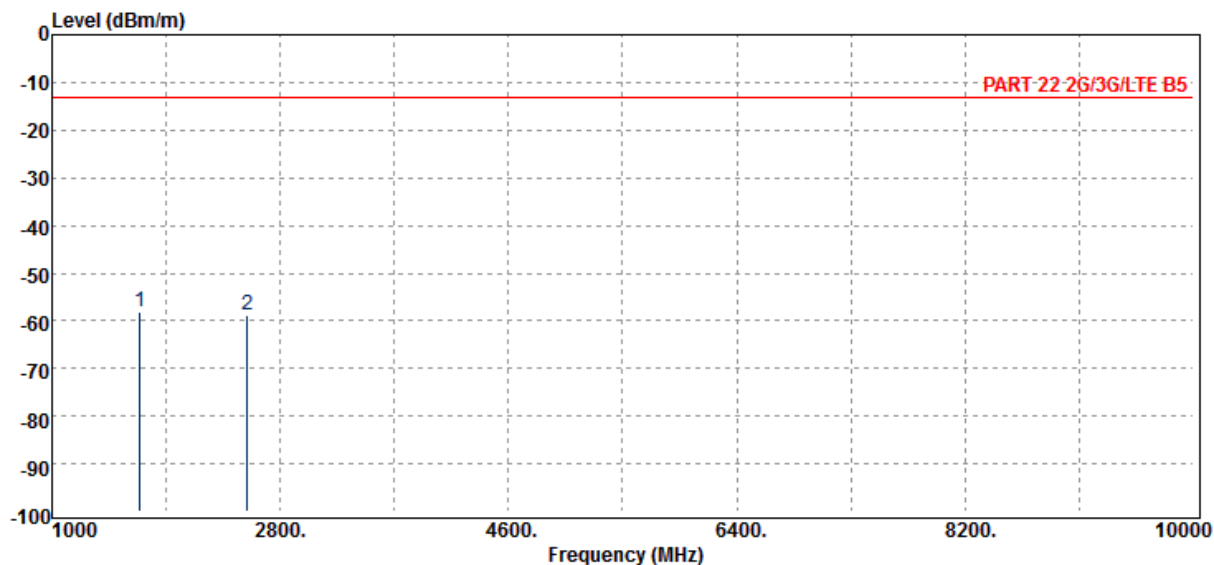
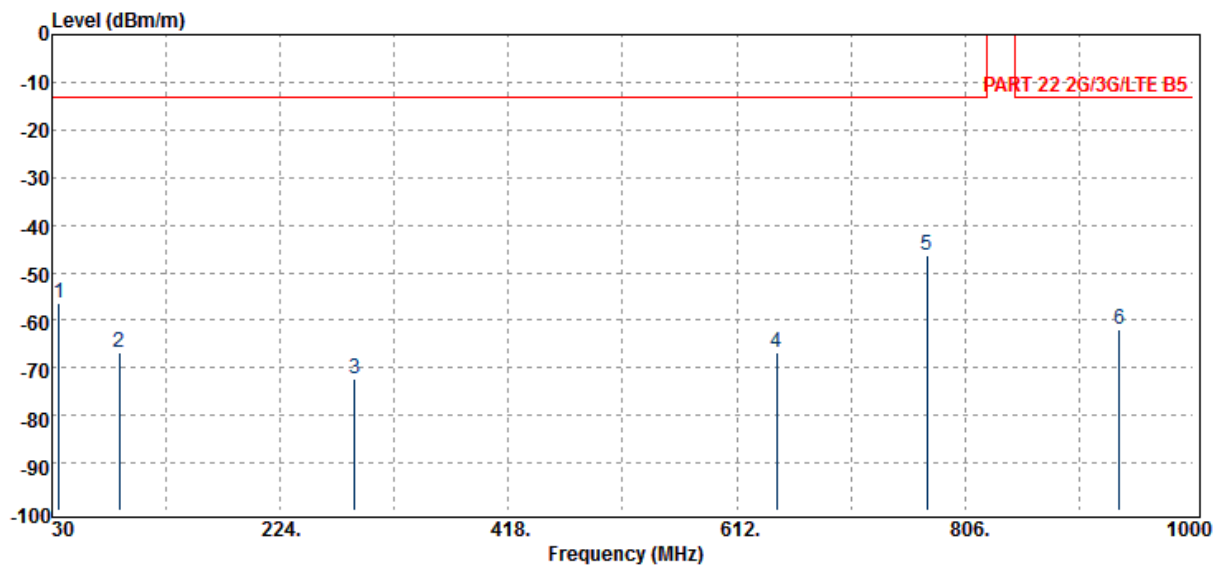
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ARFCN	:CH 4233	Test Date	:2014-11-18
Operation Band	:WCDMA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plane		



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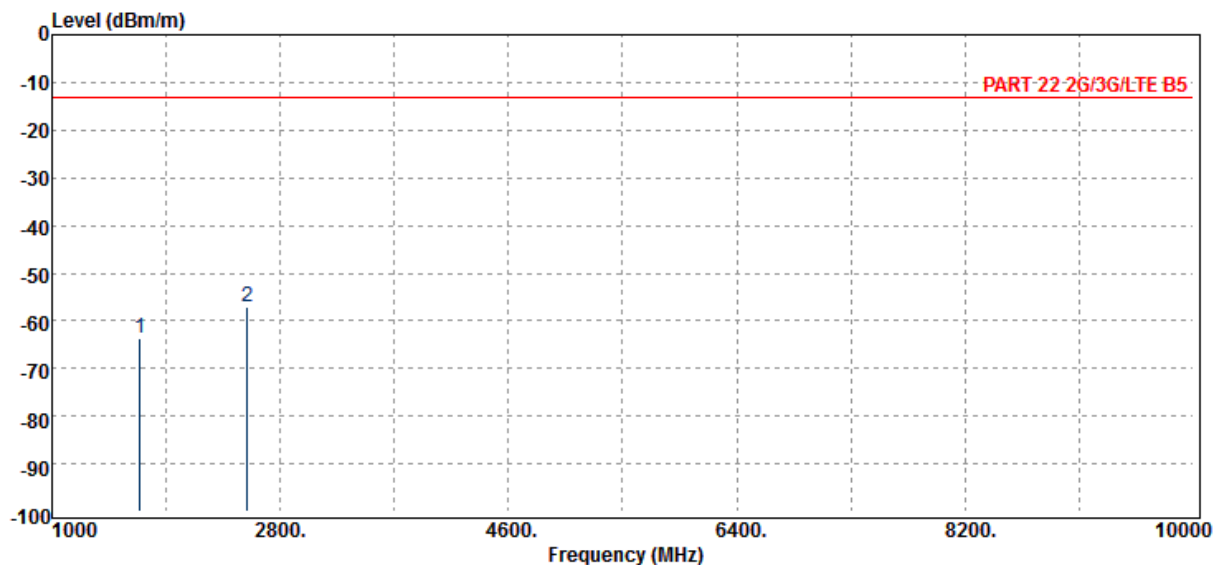
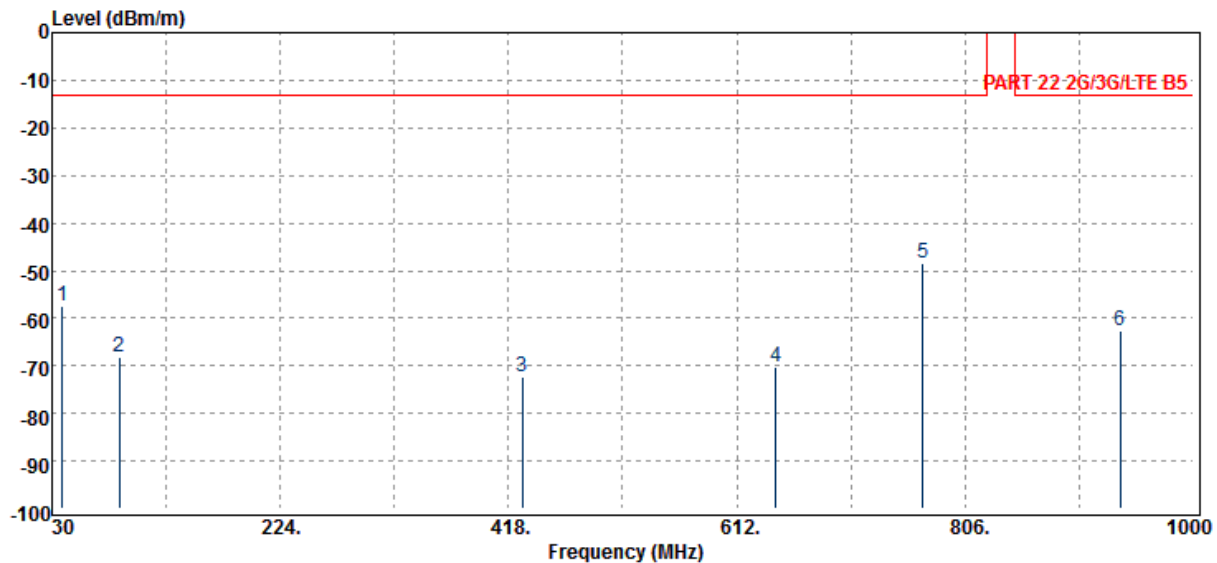
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ARFCN	:CH 4233	Test Date	:2014-11-18
Operation Band	:WCDMA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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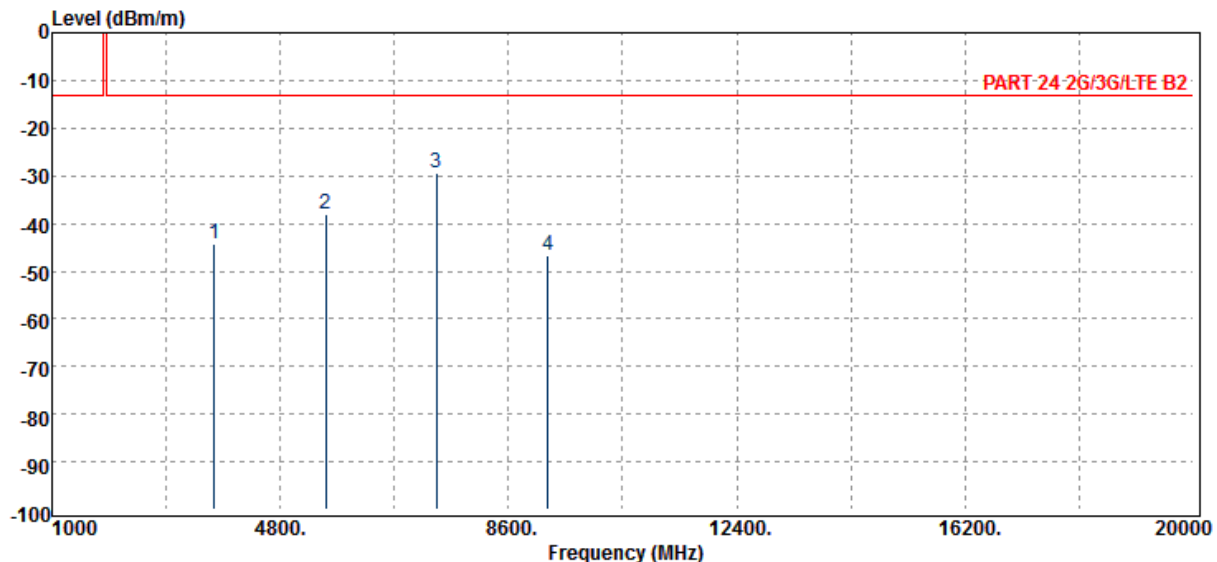
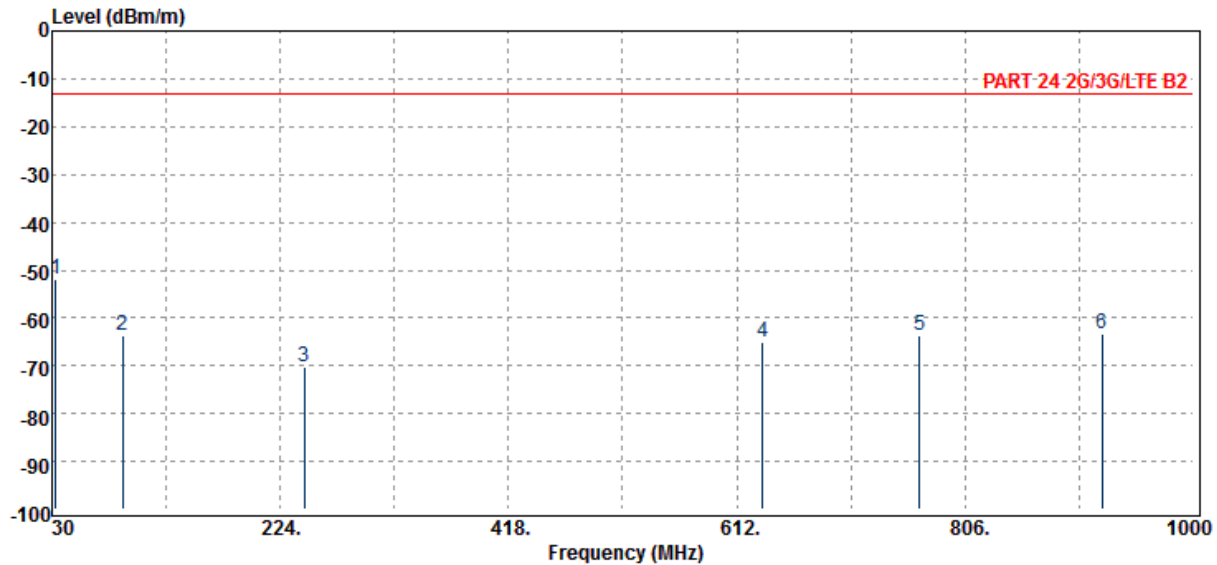
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Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 2(The Worst Case)

ARFCN	:CH 18607 16QAM BW 1.4 RB 1 5	Test Date	:2014-11-18
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1850.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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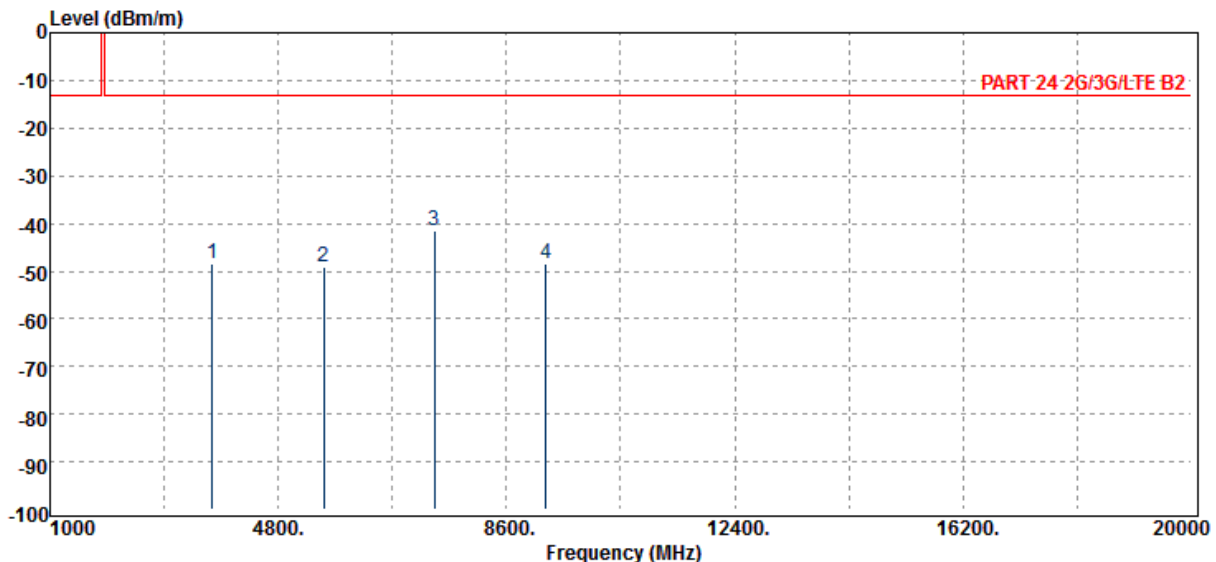
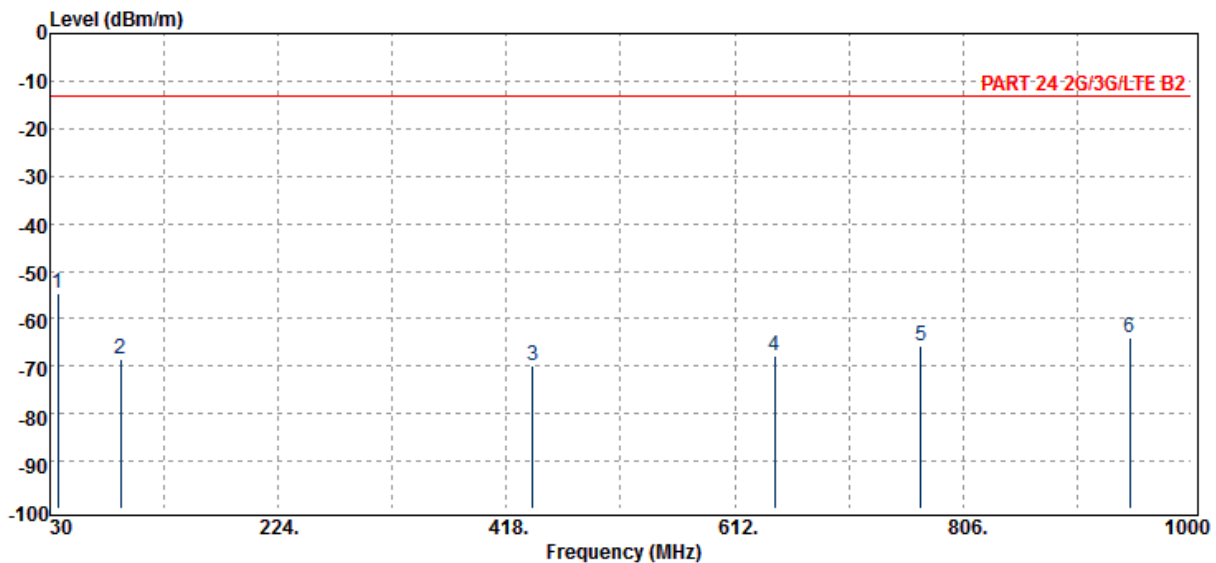
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ARFCN	:CH 18607 16QAM BW	Test Date	:2014-11-18
	1.4 RB 1 5		
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1850.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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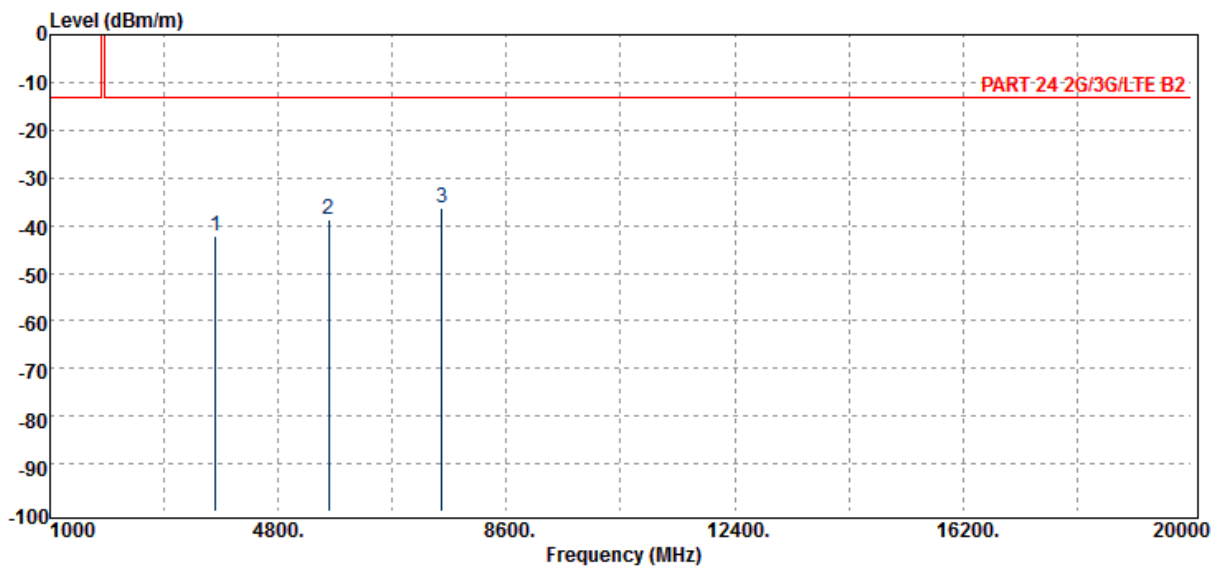
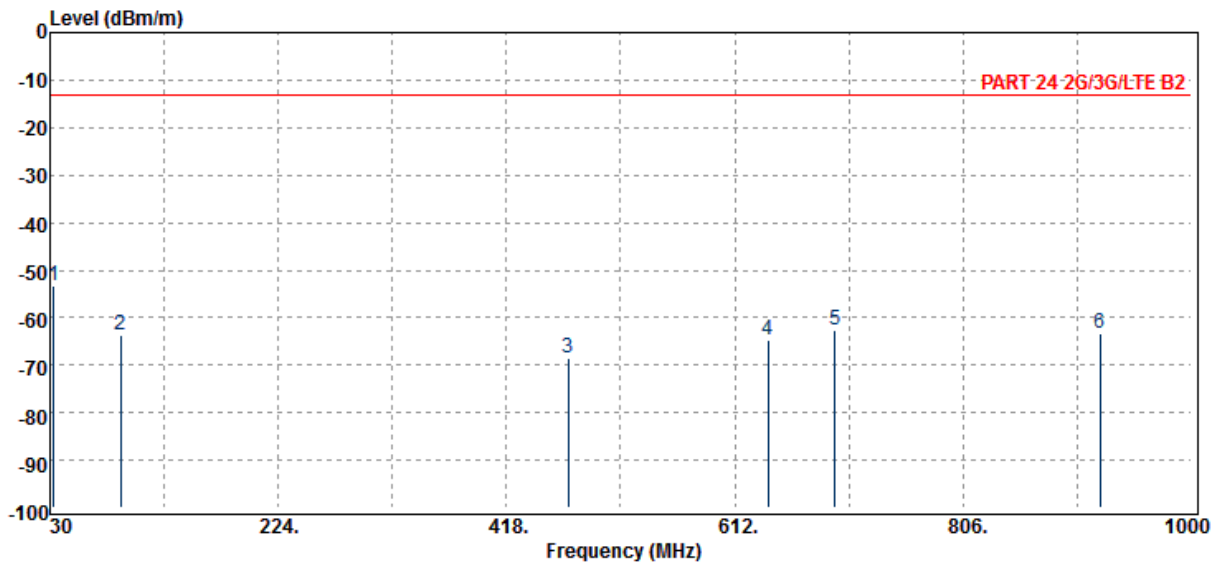
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ARFCN	:CH 18900 16QAM BW 1.4 RB 1 5	Test Date	:2014-11-18
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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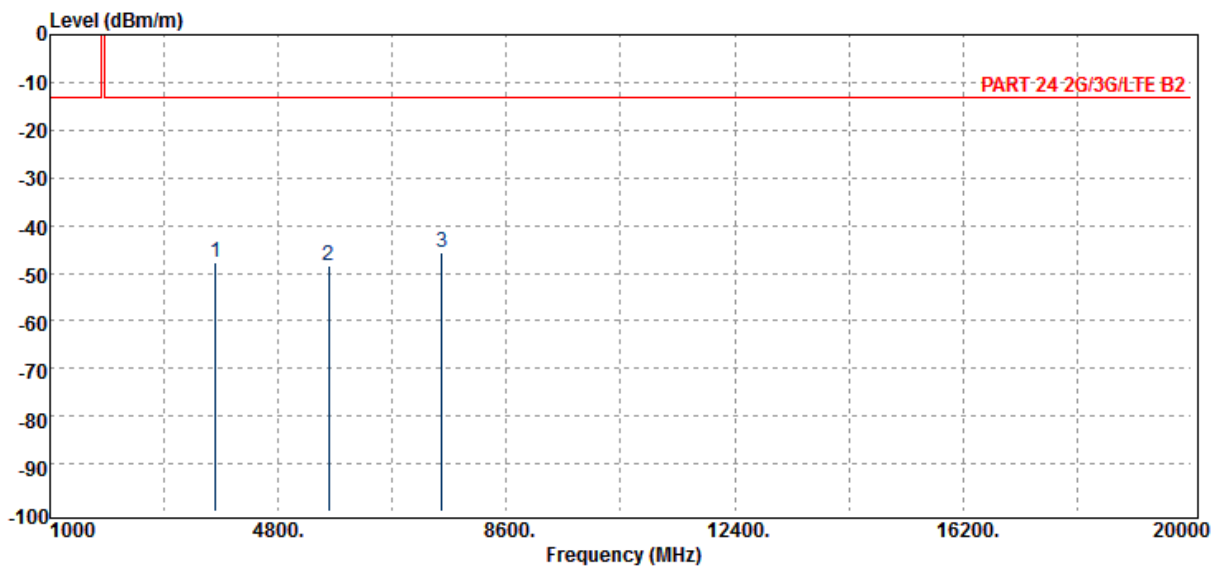
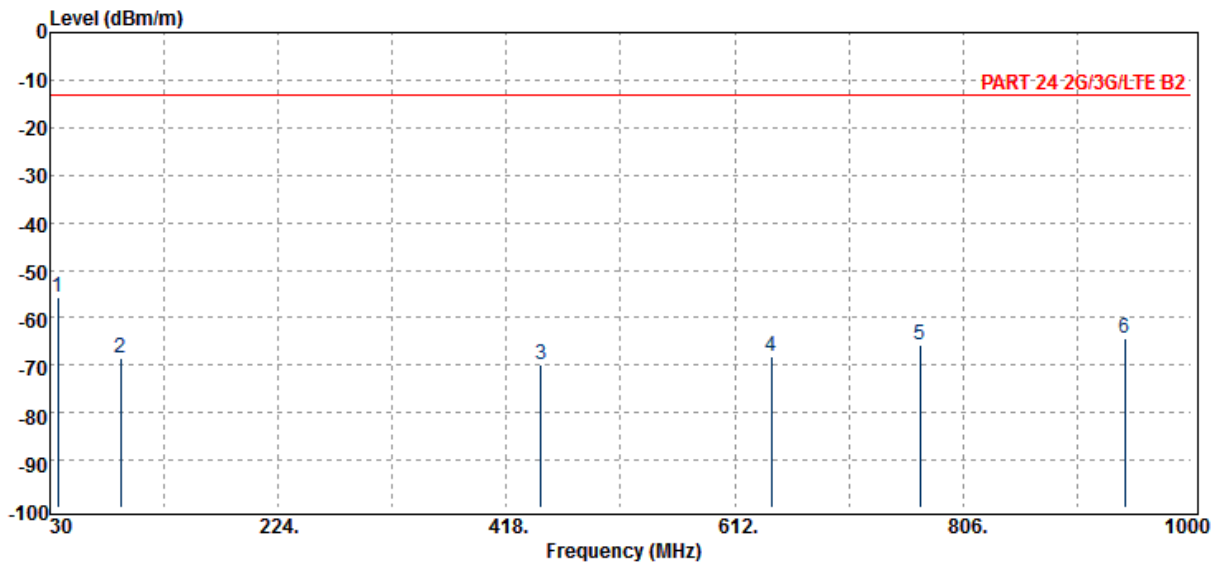
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ARFCN	:CH 18900 16QAM BW	Test Date	:2014-11-18
	1.4 RB 1 5		
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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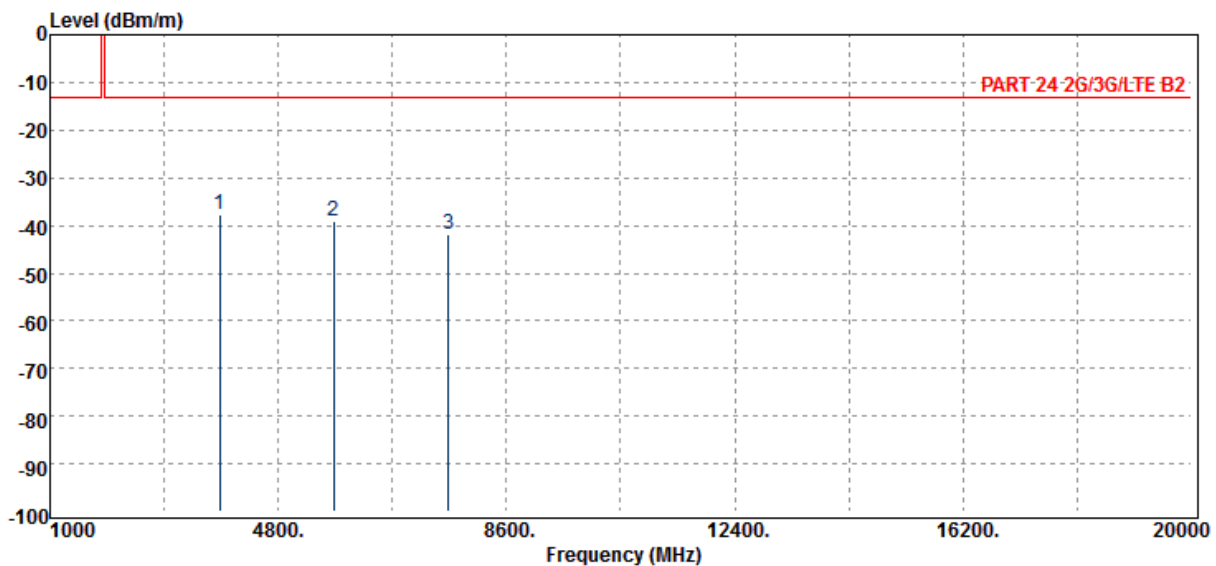
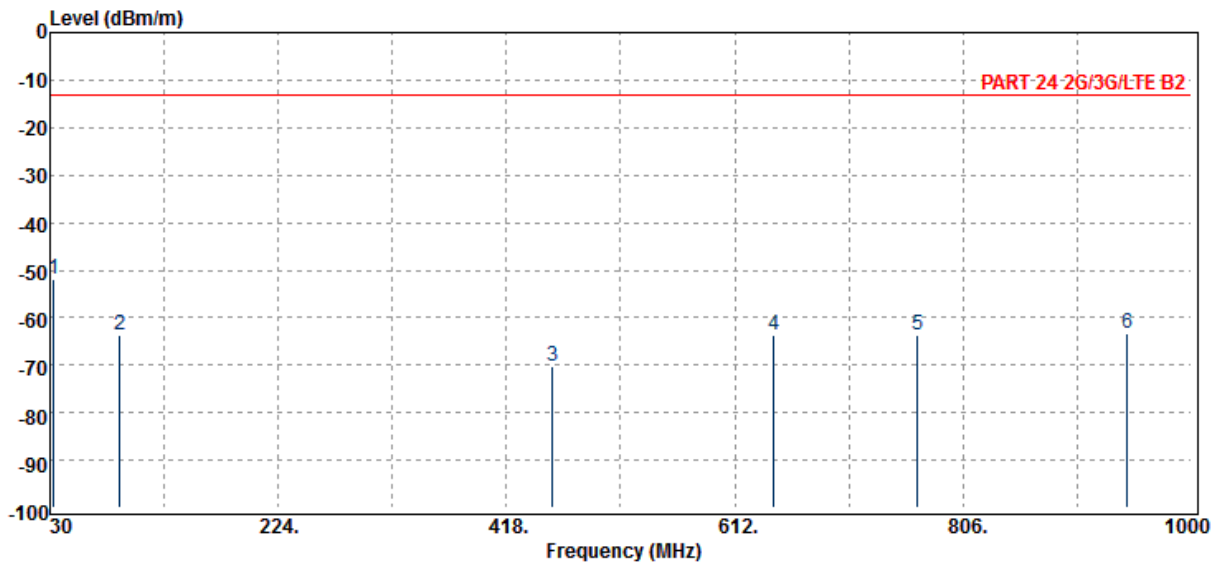
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ARFCN	:CH 19193 16QAM BW	Test Date	:2014-11-18
	1.4 RB 1 5		
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1909.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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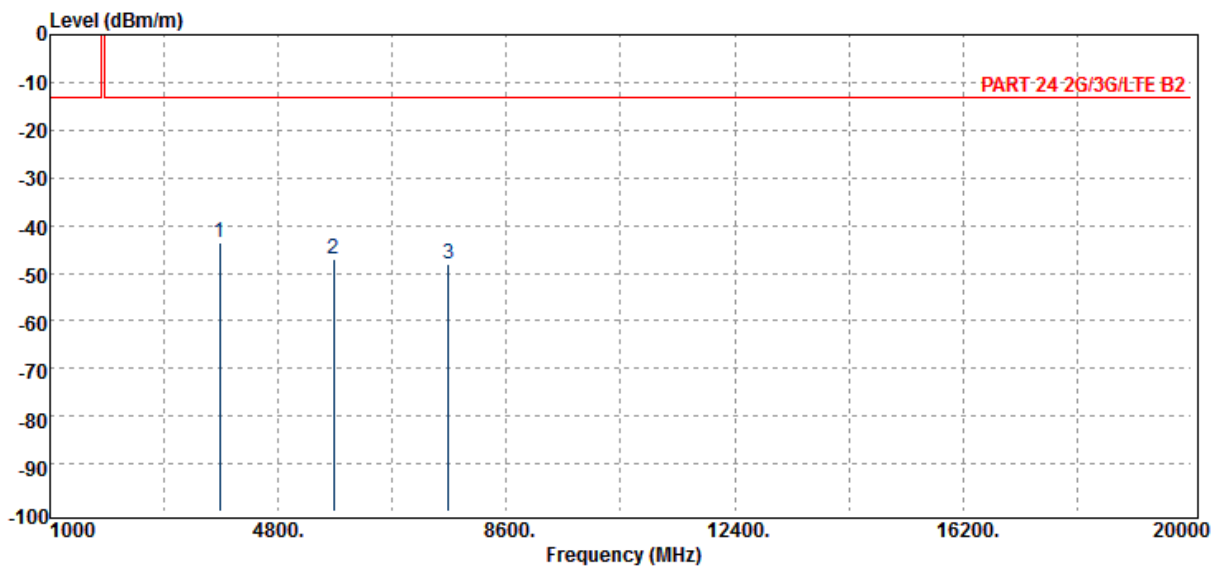
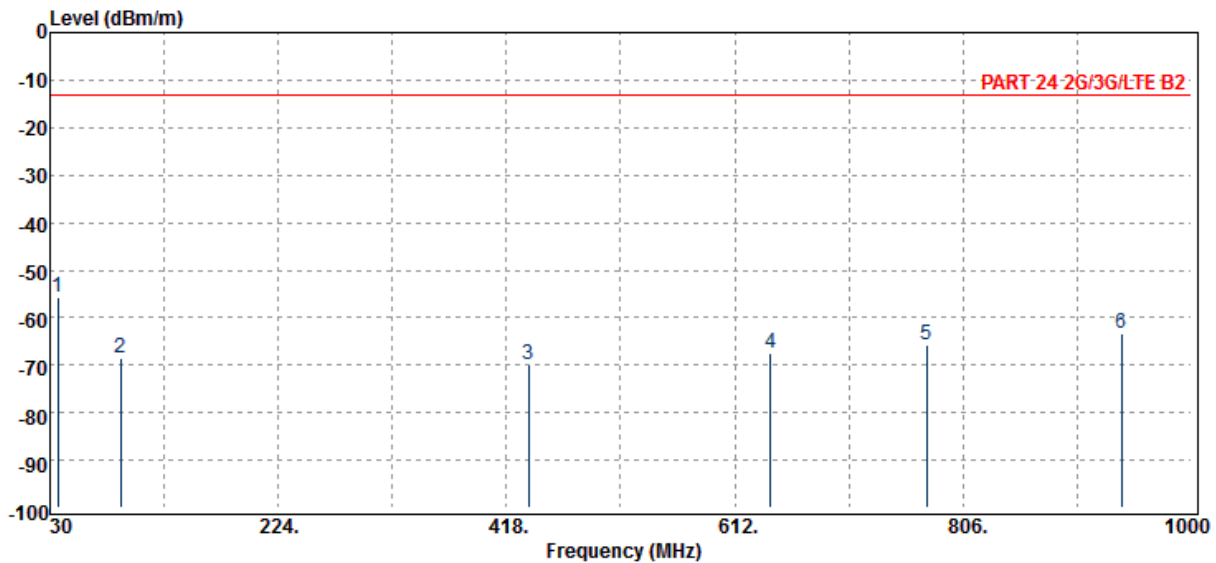
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ARFCN	:CH 19193 16QAM BW	Test Date	:2014-11-18
	1.4 RB 1 5		
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1909.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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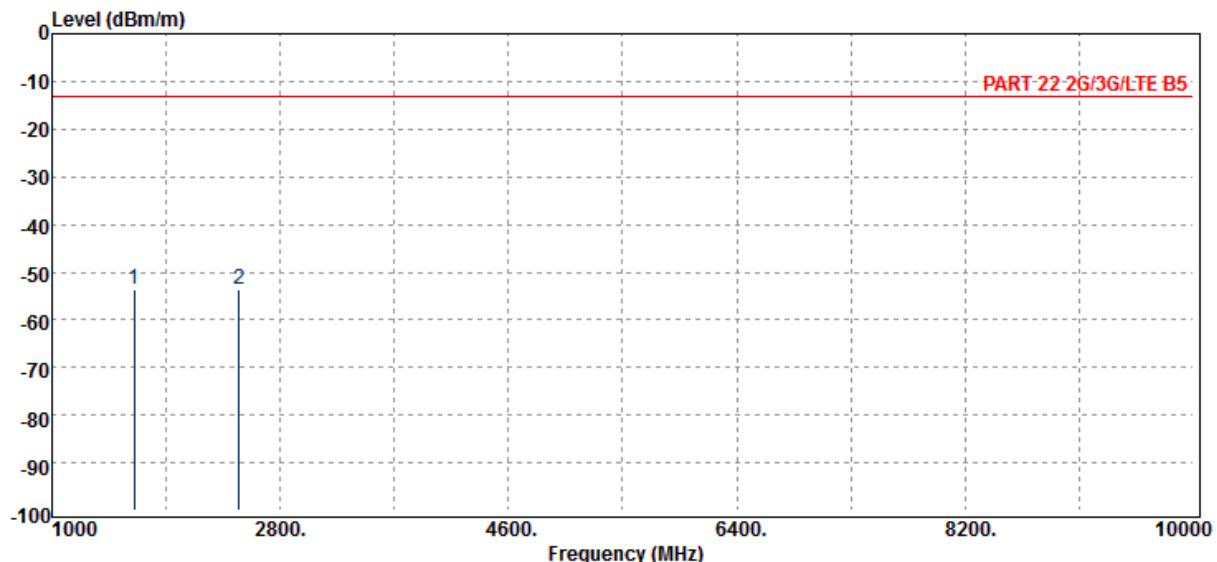
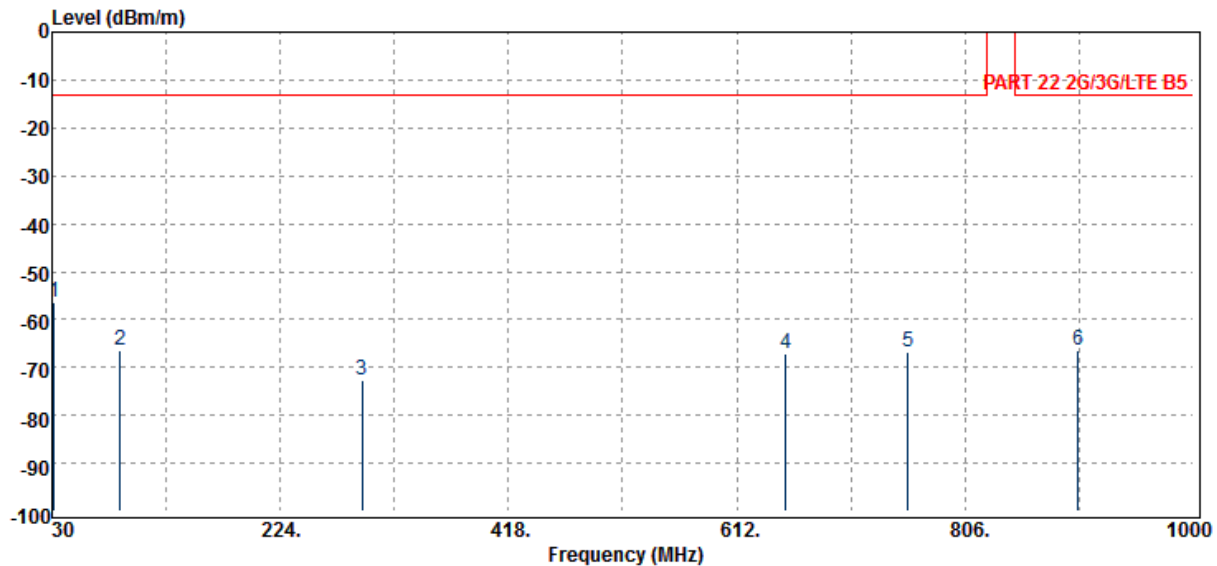
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Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 5(The Worst Case)

ARFCN	:CH 20407 16QAM BW	Test Date	:2014-11-18
	1.4 RB 1 0		
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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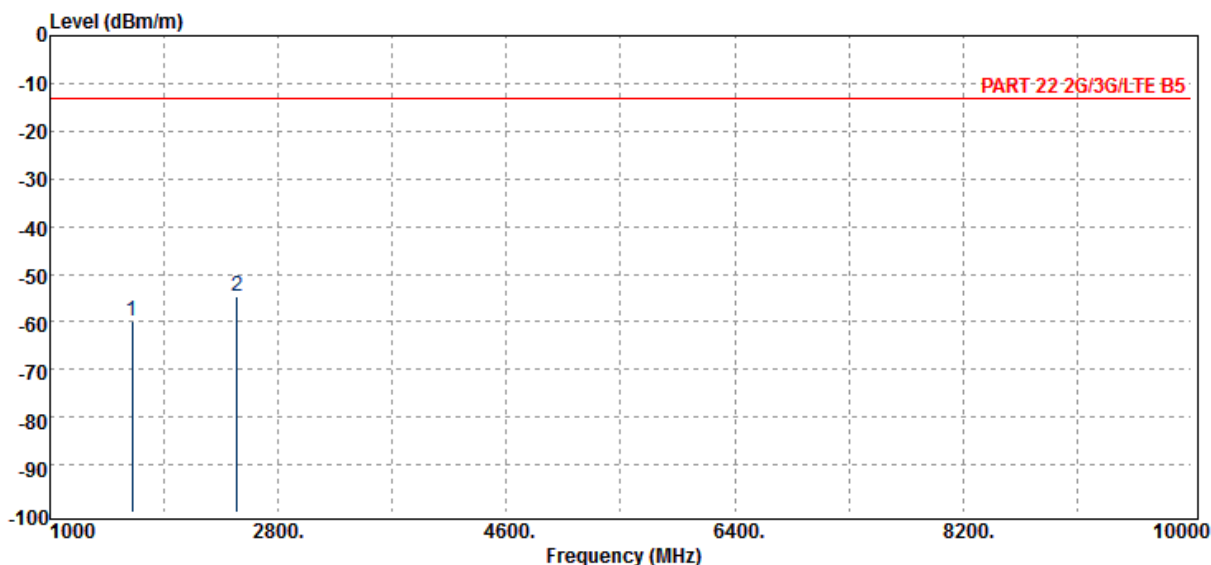
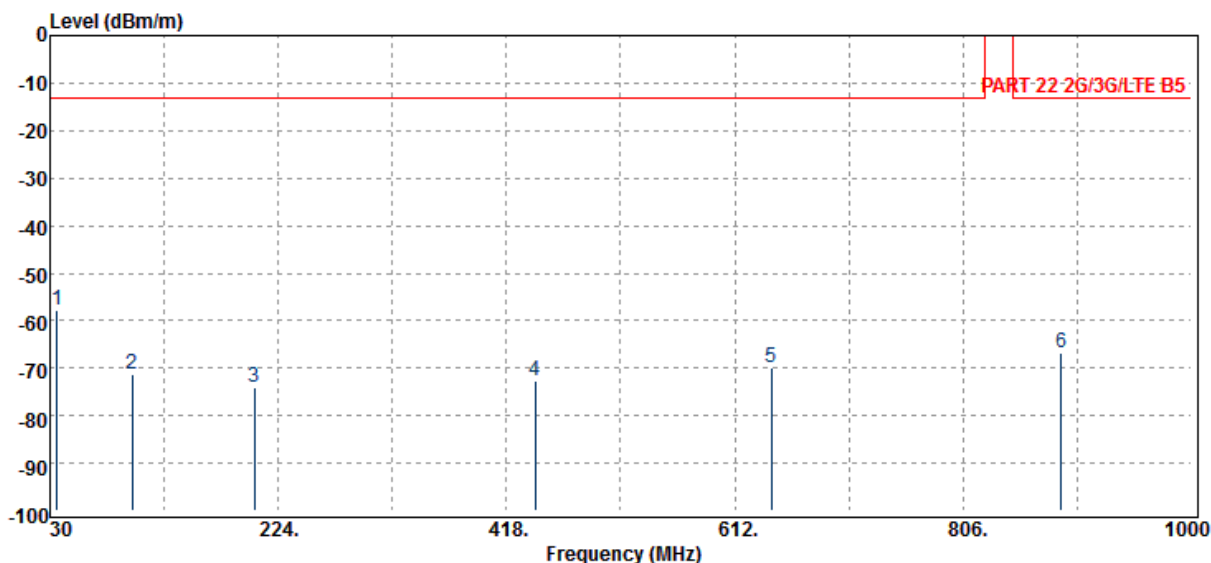
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ARFCN	:CH 20407 16QAM BW	Test Date	:2014-11-18
	1.4 RB 1 0		
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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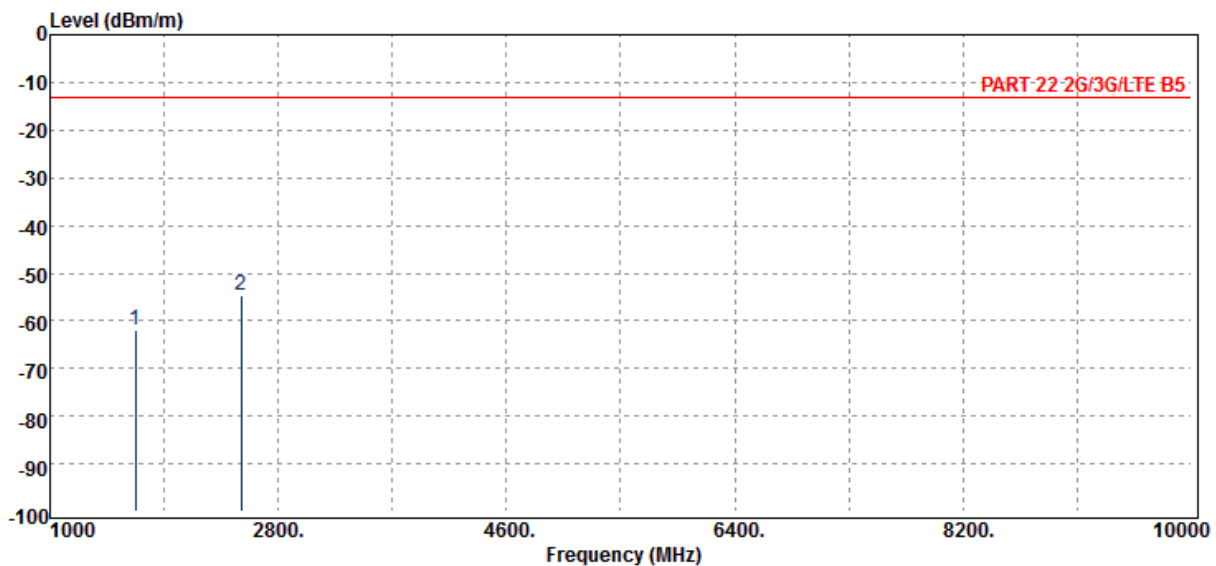
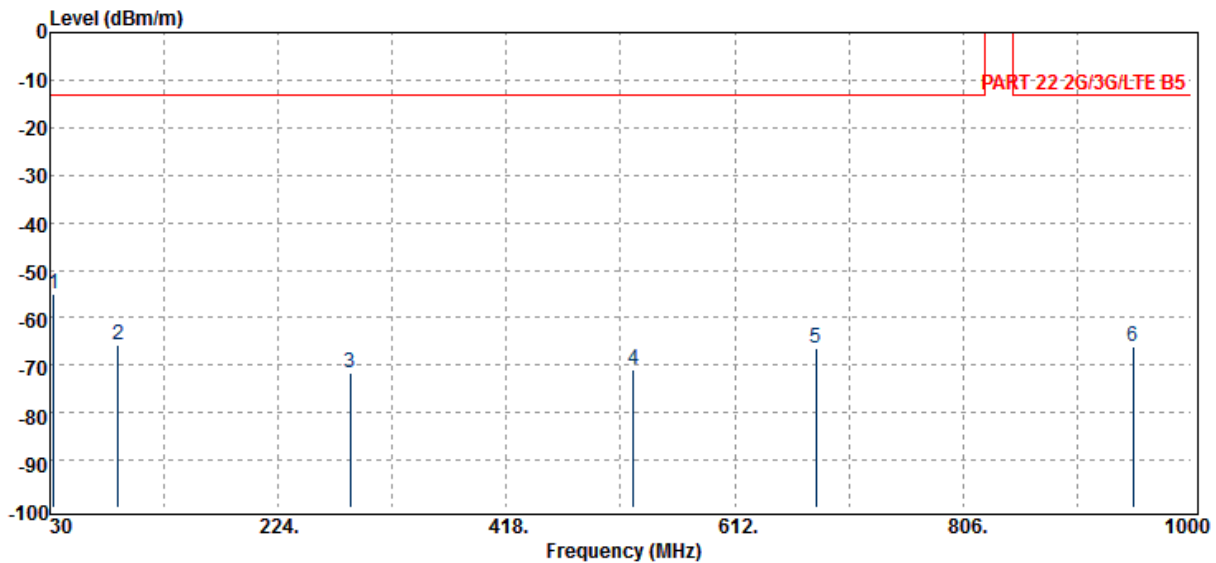
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ARFCN	:CH 20525 16QAM BW	Test Date	:2014-11-18
	1.4 RB 1 0		
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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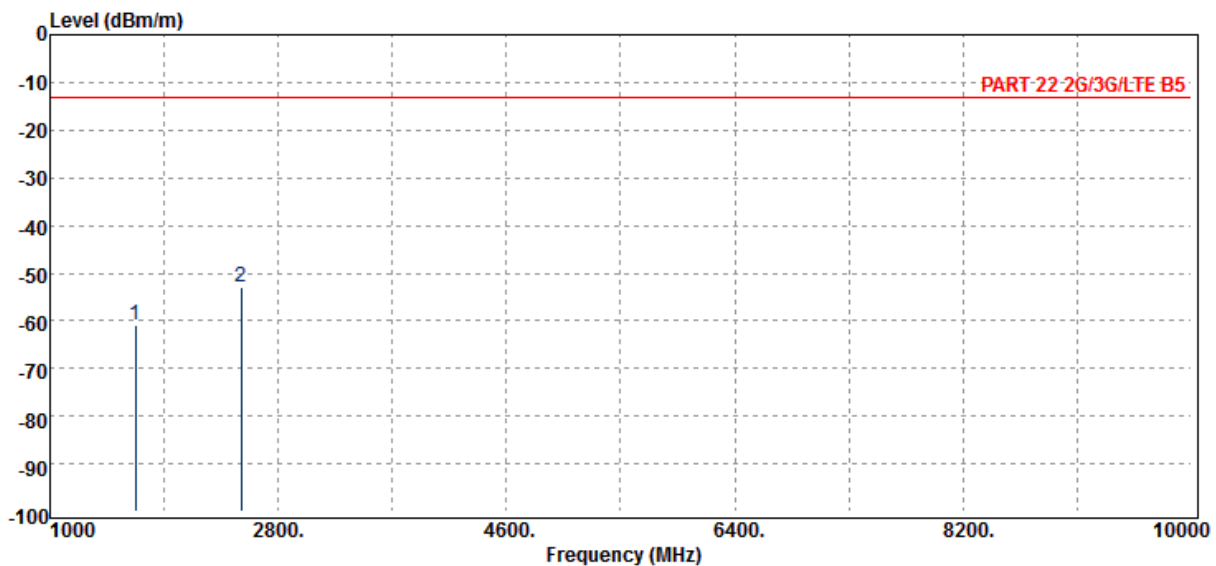
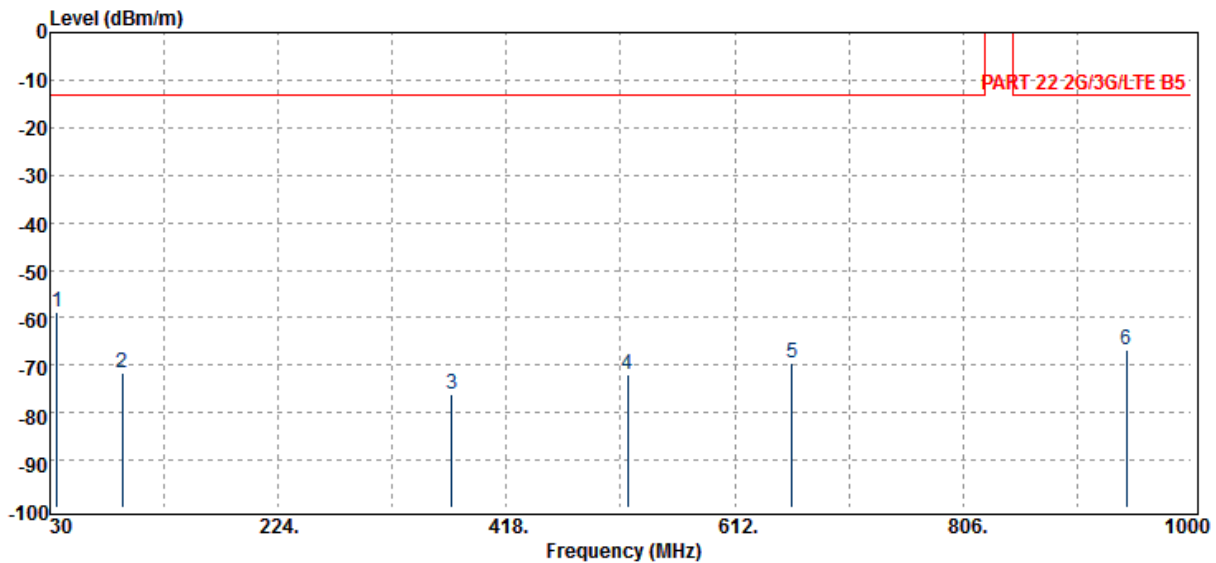
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ARFCN	:CH 20525 16QAM BW	Test Date	:2014-11-18
	1.4 RB 1 0		
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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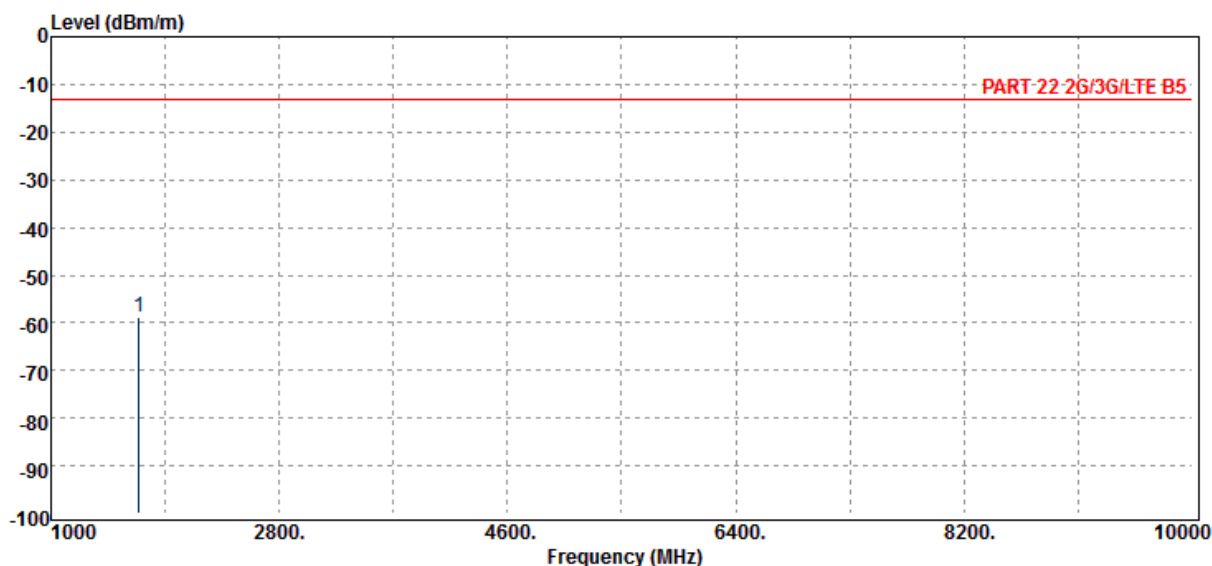
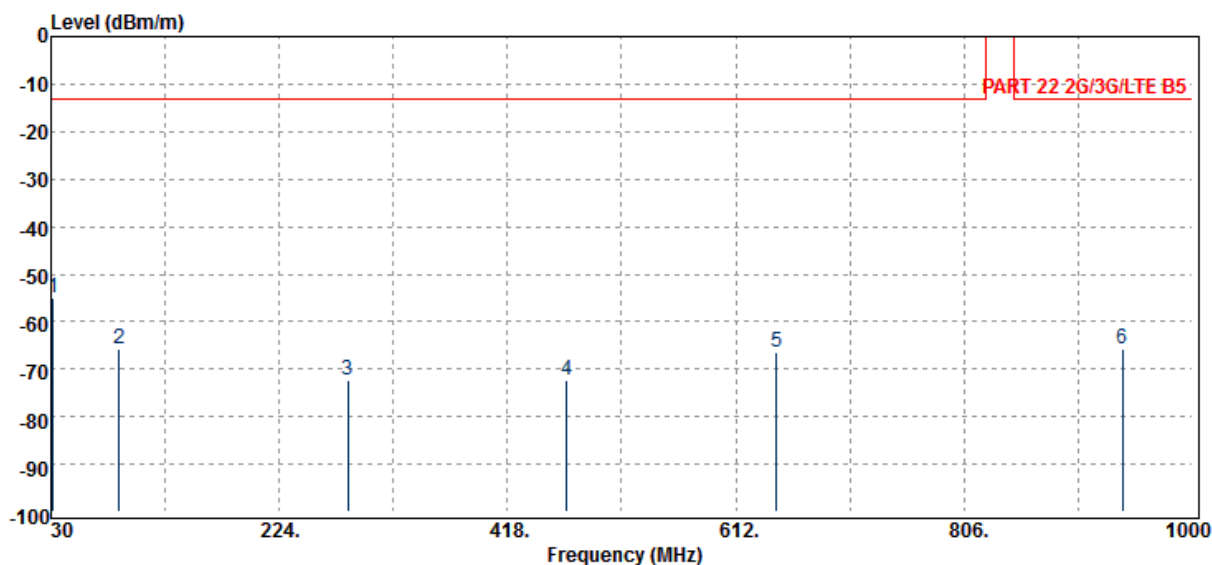
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ARFCN	:CH 50643 16QAM BW 1.4 RB 1 0	Test Date	:2014-11-18
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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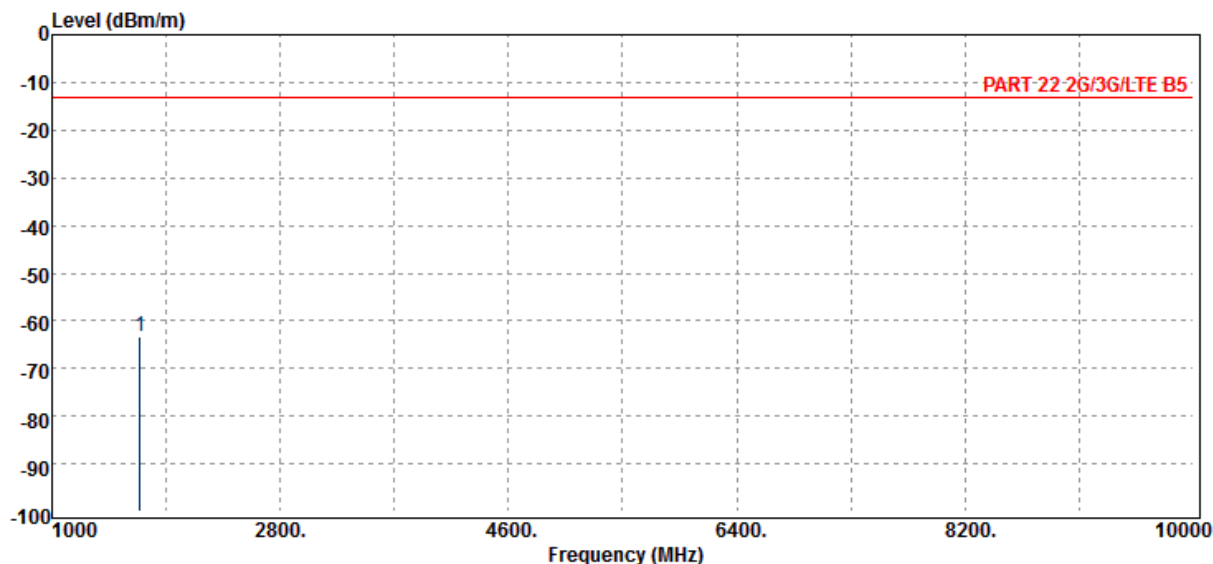
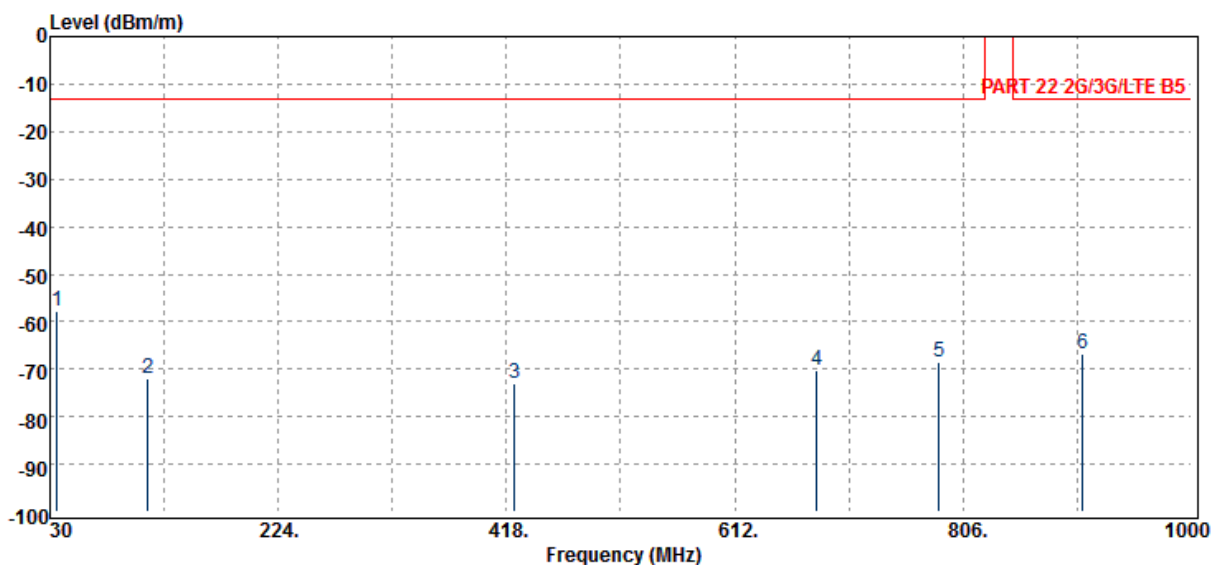
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ARFCN	:CH 50643 16QAM BW 1.4 RB 1 0	Test Date	:2014-11-18
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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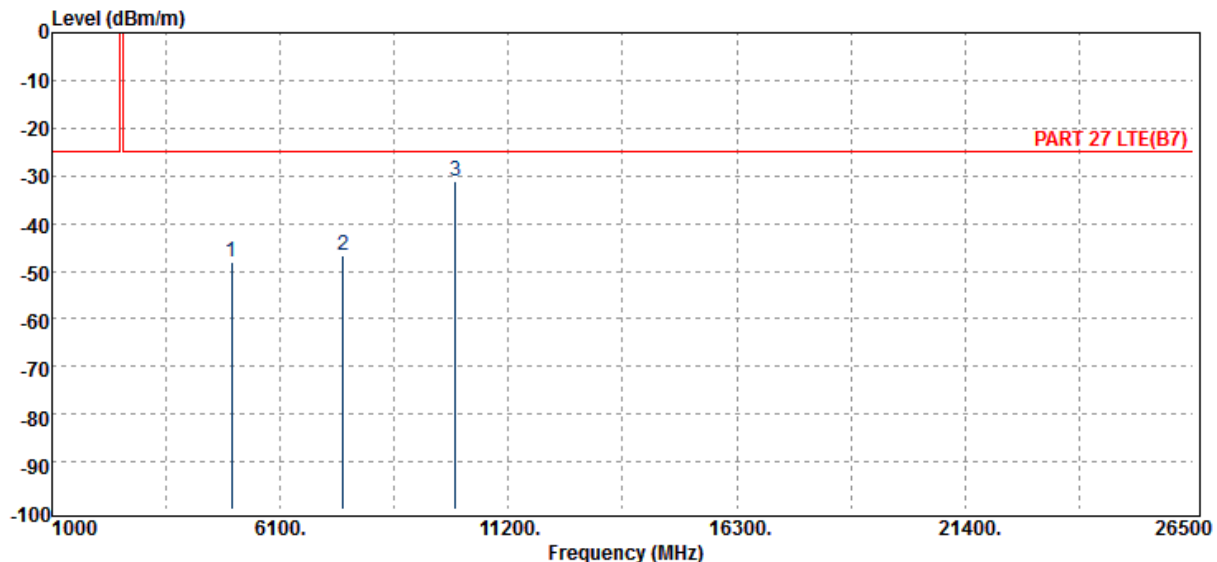
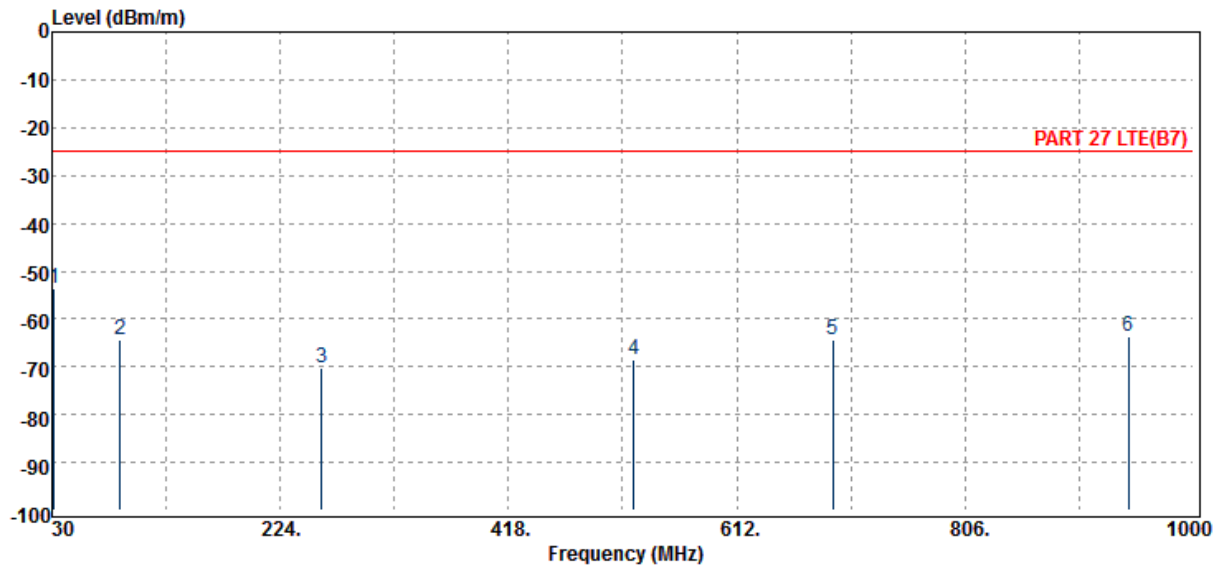
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Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 7 (Worst case)

ARFCN	:CH 20775 16QAM BW 5	Test Date	:2014-11-28
	RB 1 0		
Operation Band	:LTE B7	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:2502.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



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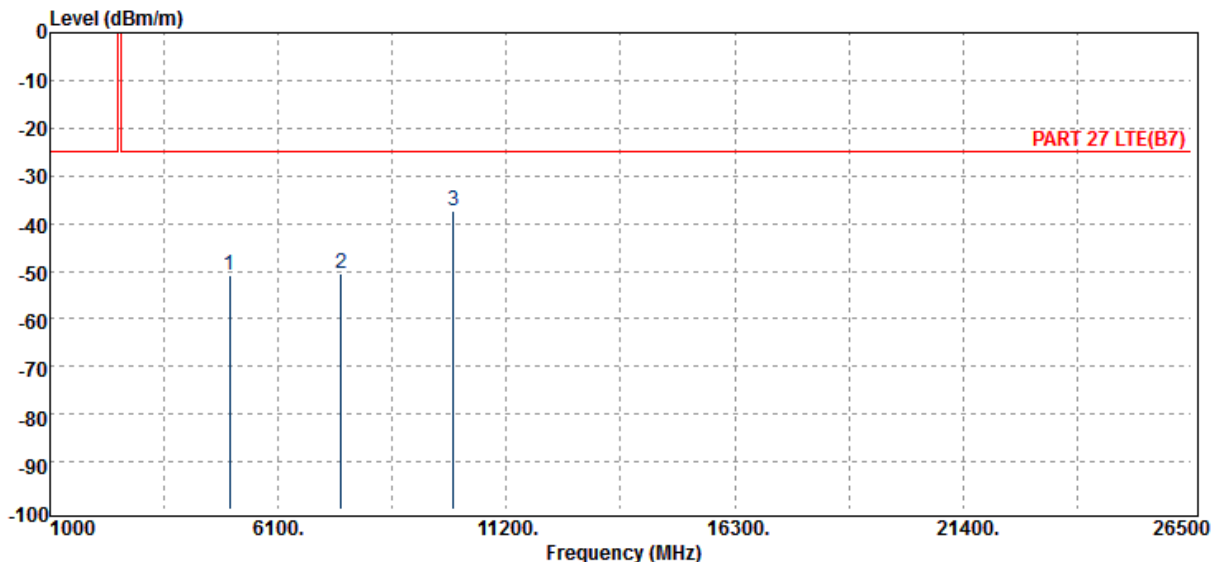
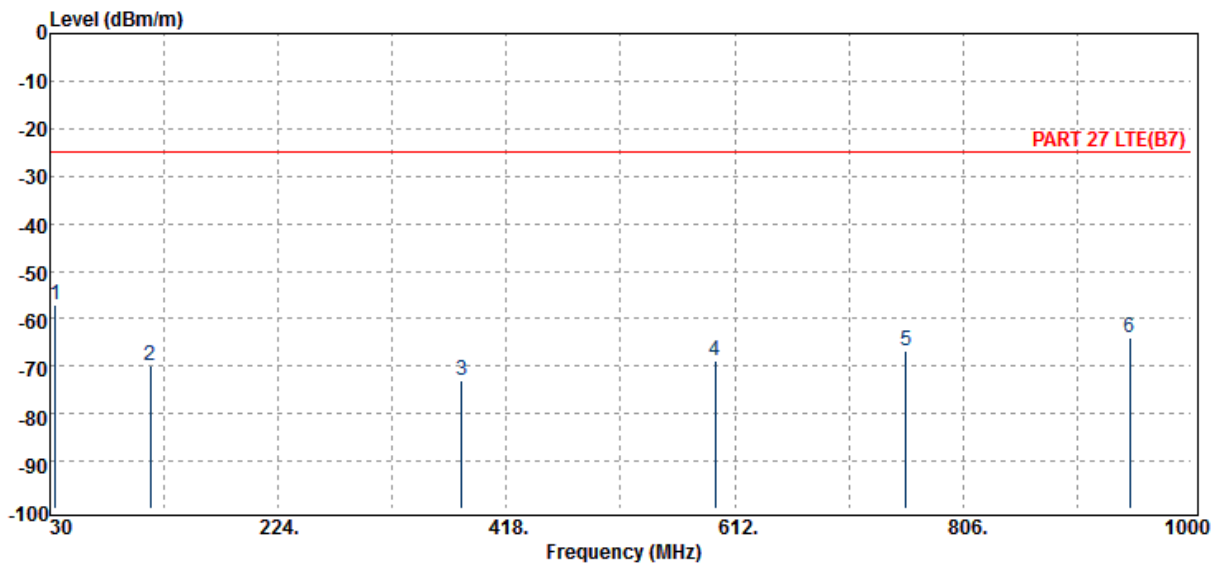
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ARFCN	:CH 20775 16QAM BW 5 RB 1 0	Test Date	: 2014-11-28
Operation Band	:LTE B7	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:2502.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



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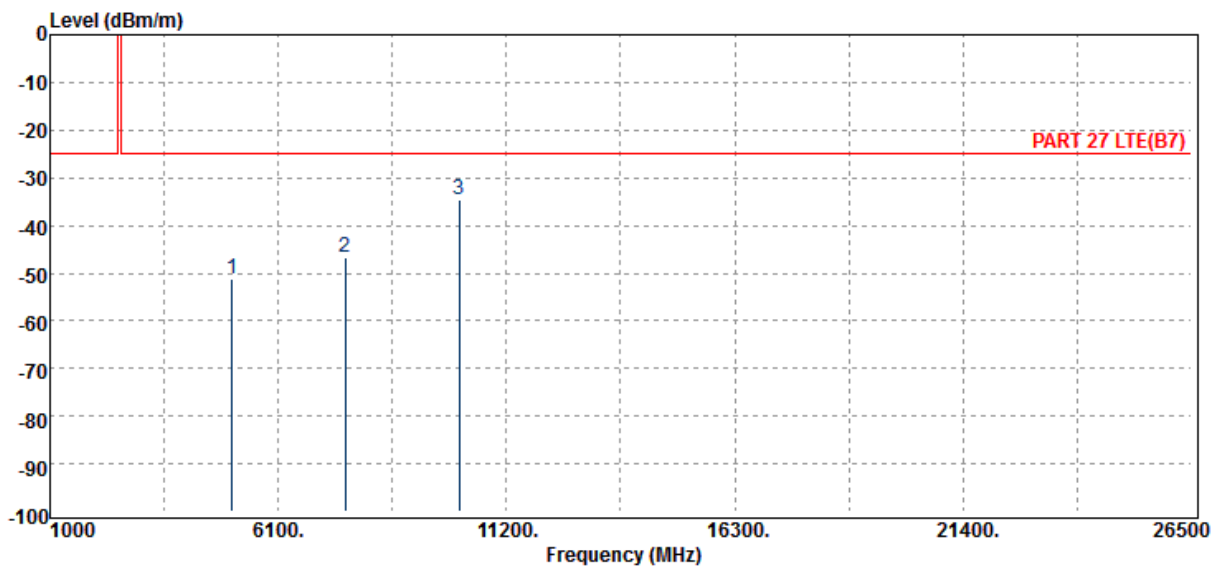
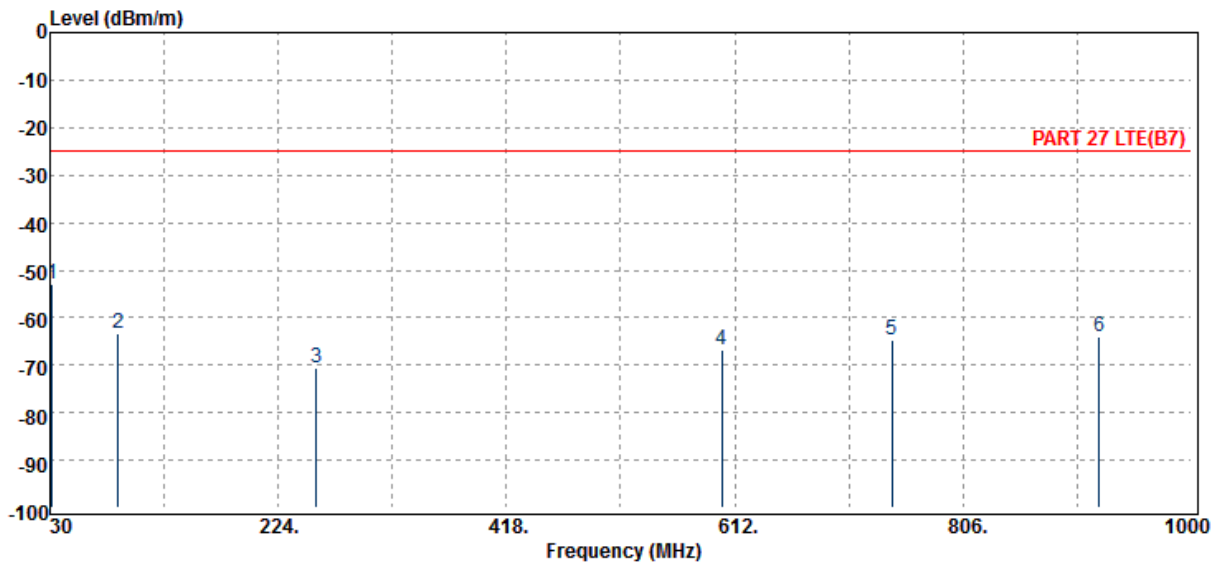
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ARFCN	:CH 21100 16QAM BW 5	Test Date	: 2014-11-28
	RB 1 0		
Operation Band	:LTE B7	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:2535 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



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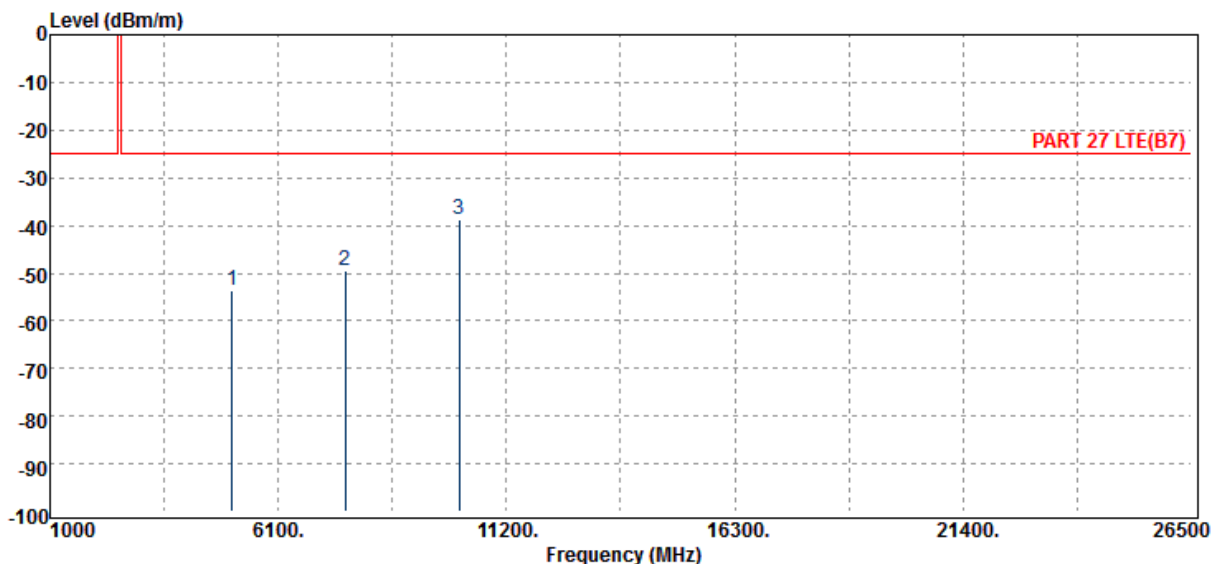
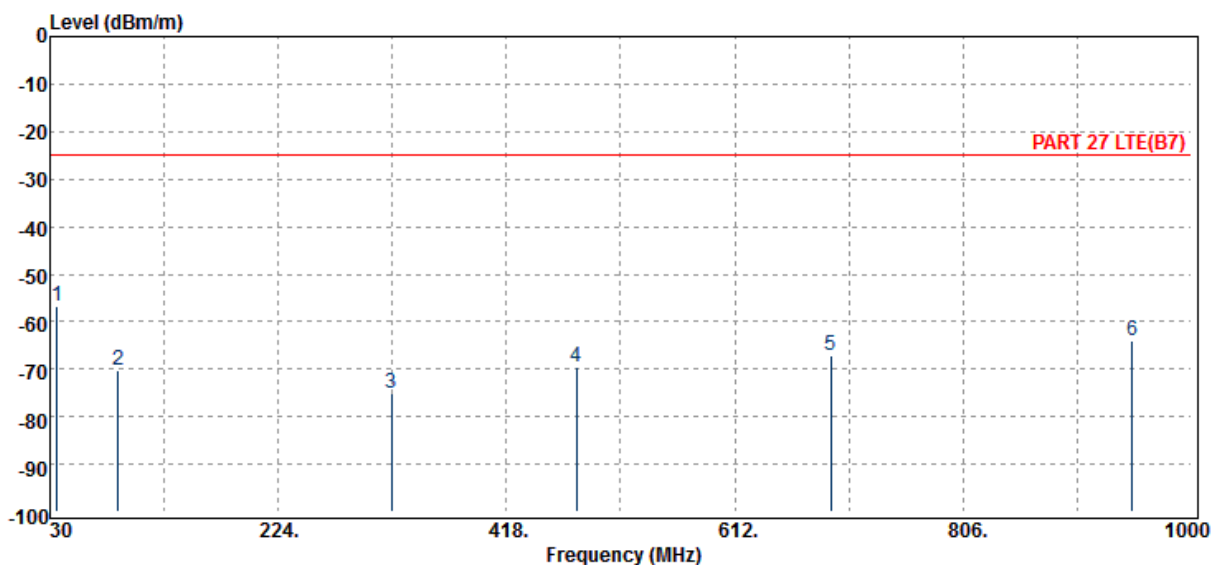
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ARFCN	:CH 21100 16QAM BW 5	Test Date	: 2014-11-28
	RB 1 0		
Operation Band	:LTE B7	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:2535 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



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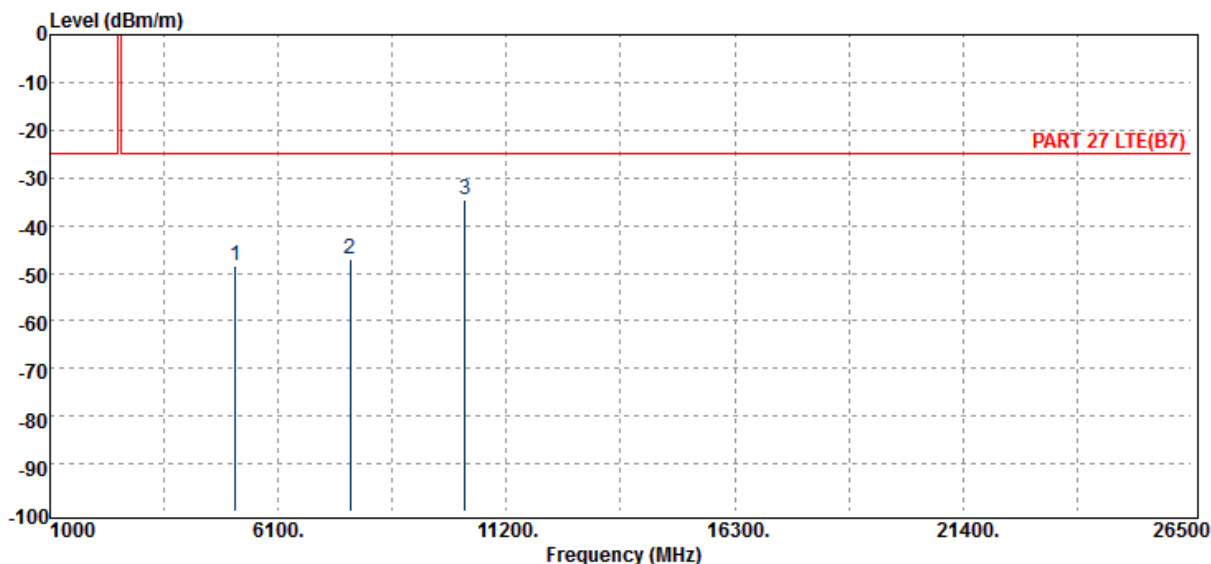
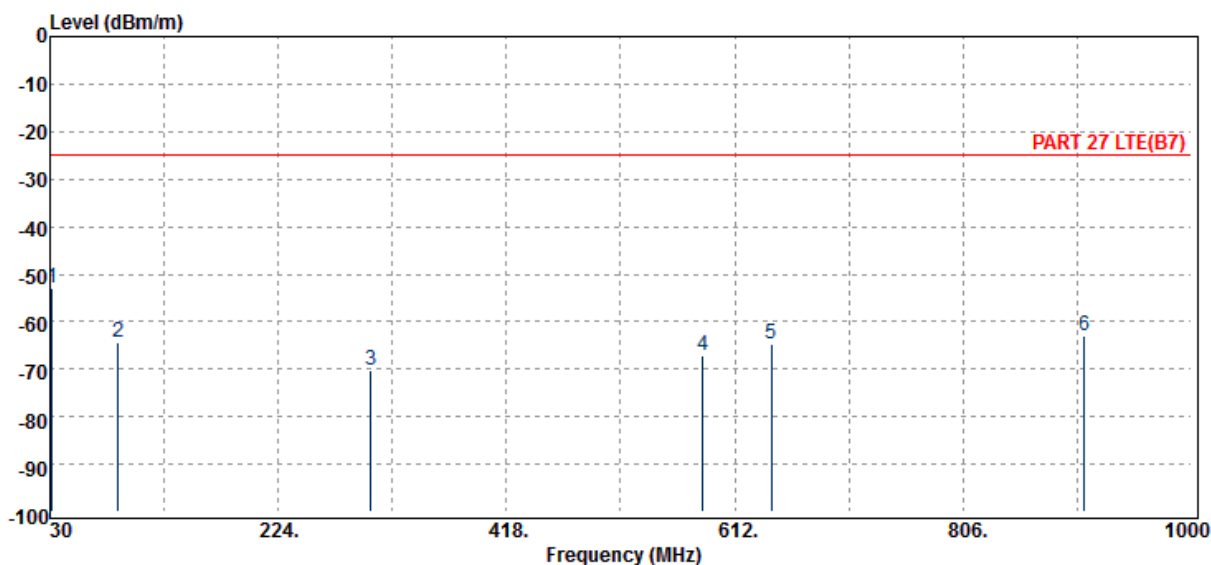
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ARFCN	:CH 21425 16QAM BW 5	Test Date	: 2014-11-28
	RB 1 0		
Operation Band	:LTE B7	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:2567.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



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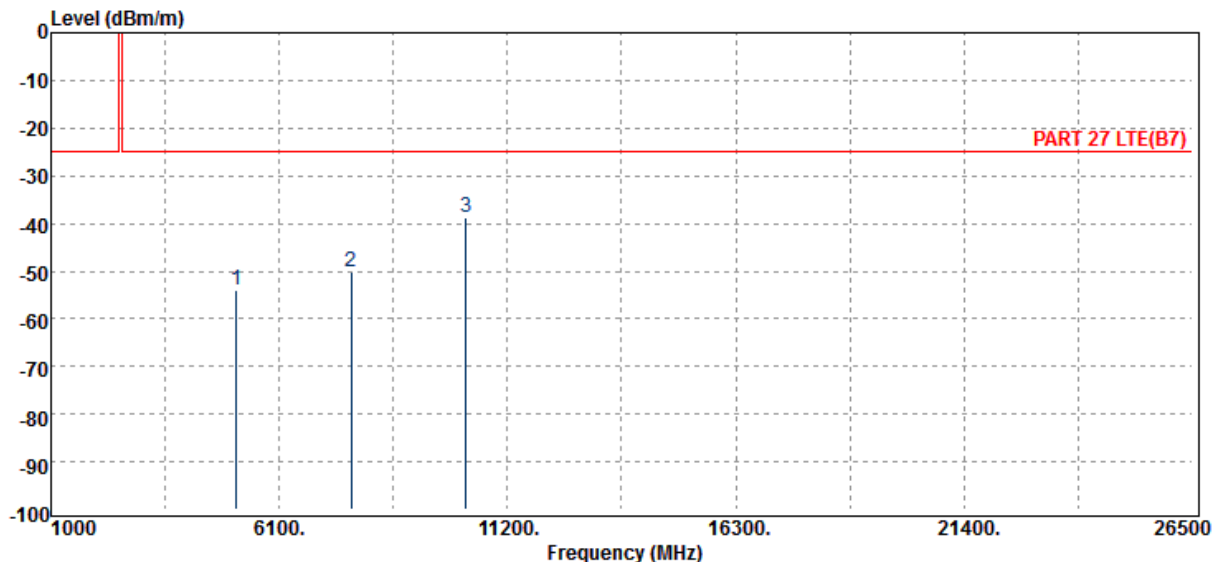
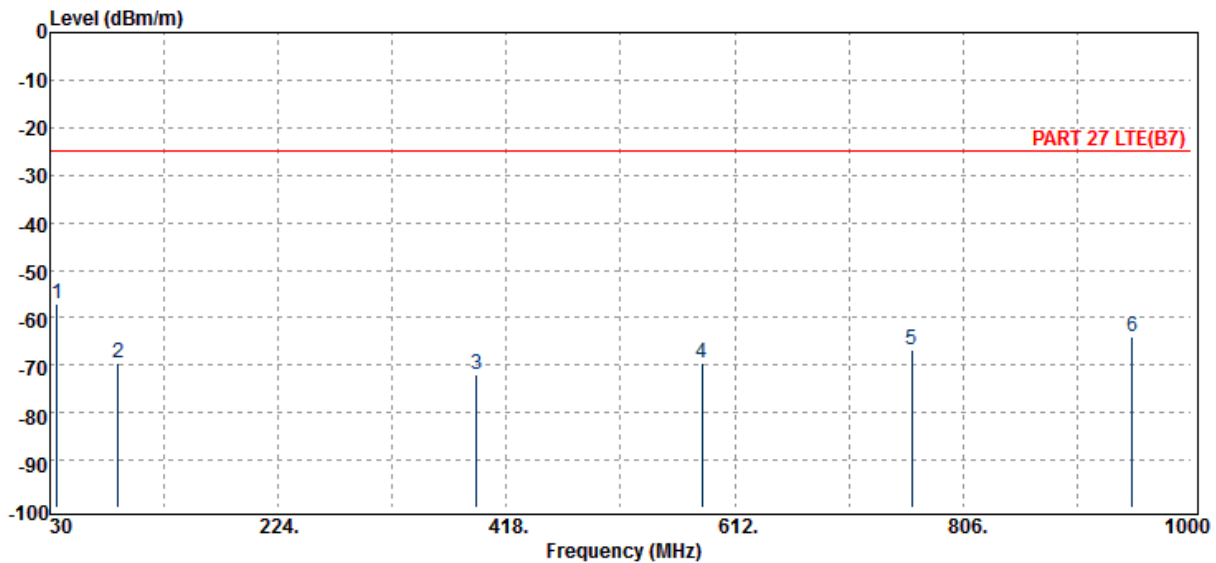
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ARFCN	:CH 21425 16QAM BW 5	Test Date	: 2014-11-28
	RB 1 0		
Operation Band	:LTE B7	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:2567.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



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